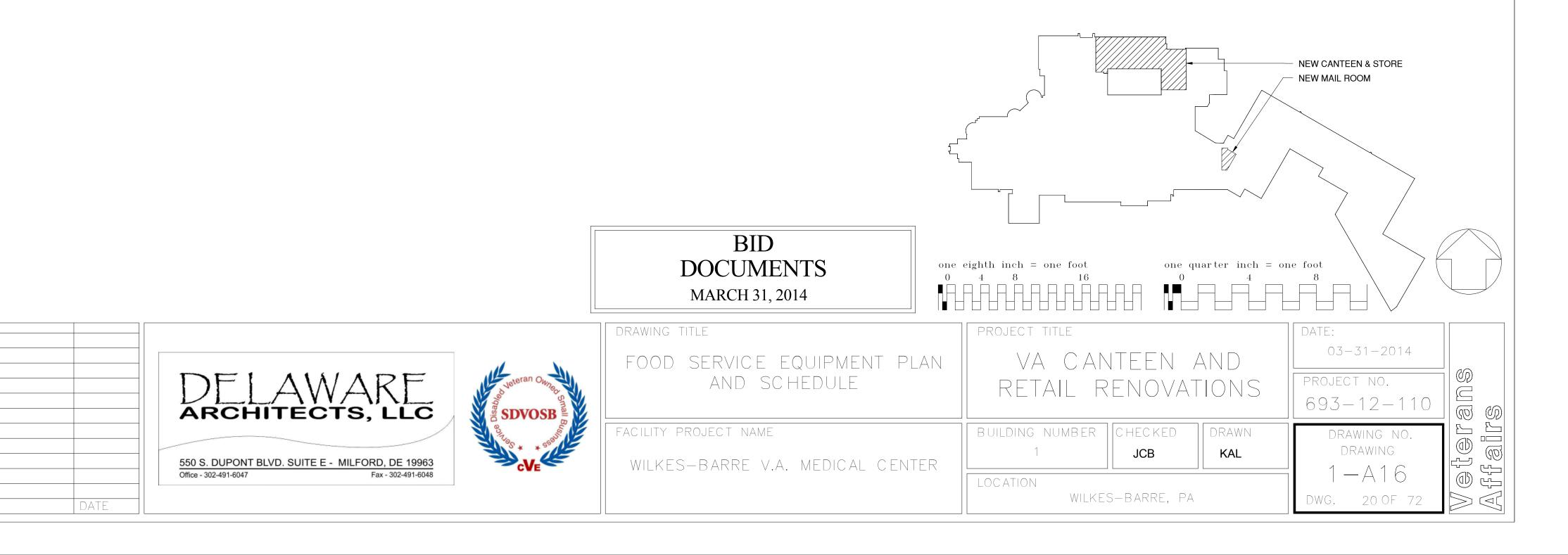


1 OVERALL FOODSERVICE EQUIPMENT PLAN 1-A16 1/4" = 1'-0"



REVISIONS



# GENERAL NOTES CC = CONTRACTOR SUPPLY AND INSTALL KC = CANTEEN SERVICES SUPPLY AND CONTRACTOR INSTALL KK = CANTEEN SERVICES SUPPLY AND INSTALL

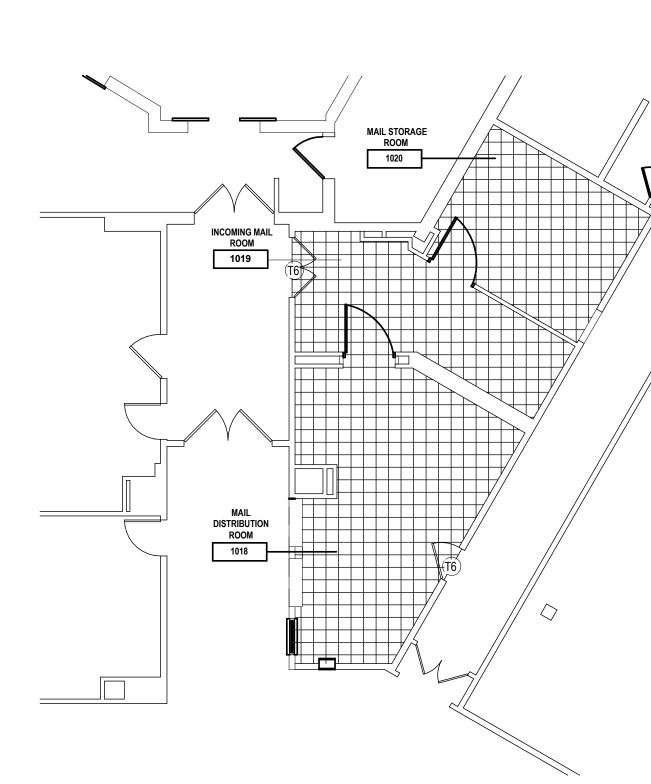
	FOODSERVICE EQI	JIPMENT SCHEDULE	
ITEM NO	DESCRIPTION	MODEL NO	SUPPLIER/INSTALLER
DINING D21	TRASH RECEPTACLE (SINGLE)	FABRICATED	CC
DISHWA	SHING		
DW1	CLEAN DISHTABLE CORNER	EAGLE GROUP CDTCL-84-16/3	CC
DW2	DISHWASHER	HOBART CL44e	CC
DW3	FOODWASTE DISPOSER	HOBART FD3/150	CC
DW4 DW5	SOILED DISHTABLE THREE COMPARTMENT SINK	EAGLE GROUP - VARIES EAGLE GROUP FN2472-3-24L-14/3	CC
FOODSE	FREEZER	SEE SPECIFICATIONS	СС
2	COOLER	SEE SPECIFICATIONS	CC
6	CONDIMENT STAND	FABRICATED	CC
9	MENU BOARD	HOWARD	КС
17	TRAY DISPENSER	DUKE TTD-1216	КС
B1	BEVERAGE COUNTER	FABRICATED	CC
B6	COLD CUP DISPENSER	DISPENSE-RITE WR-CT-4	KC
B7 B8	HOT CUP DISPENSER	DISPENSE-RITE WR-CT-3	KC
B8 B8A	BEVERAGE/ICE DISPENSER	PROVIDED BY COKE HOSHIZAKI KMD-450MAH	KC KC
BOA B9	GOLD PEAK TEA DISPENSER	PROVIDED BY COKE	KC
B10	COFFEE BREWER	FETCO CBS-2052e	KC
CC14	1 SECTION WARMER	ALTO SHAAM 1200-UP/STD	КС
CE13	BROASTER PRESSURE FRYER	BROASTER 1800E	КС
CR1	ROTISSERIE MERCHANDISING BASE	HENNY PENNY SCT-800	КС
CR2	ROTISSERIE COUNTERTOP ELECTRIC	HENNY PENNY SCR-6	KC
ES1	ENTREES & SIDES COUNTER	FABRICATED W/ 6 HOT WELLS	CC
ES2 FA3	CARVING STATION BREAD RACK	ALTO SHAAM 100-HSL/TM HUBERT 13639	КККС
FA4	DELI OVER WITH PROOFER	DOYON JAOP6-SL	KC
FA7	FREEZER WORK TABLE	TRUE TWT-48F	KC
FA8	REFRIIGERATOR WORK TABLE	TRUE TWT-60	KC
FC1	FRESH CHOICE BISTRO COUNTER	FABRICATED W/ 4 HOT/2	CC
504		HOT-COLD	1/0
FC4 FC5	TOASTER DUMP TABLE W/ HEAT LAMP	TOASTMASTER TC1703 FRYMASTER	KC KC
FC11	GRIDDLE	KEATING 48X30 E	KC
FC14	FRYER	FRYMASTER FPRE17	KC
FC15	INDUCTION RANGE (COUNTERTOP)	VOLLRATH 59500	КС
FC19	HOOD	CC ITEM - SEE SPECIFICATIONS	CC
FC20	HOOD	CC ITEM - SEE SPECIFICATIONS	
K1	COMBITHERM OVEN W/ LEGS	ALTO SHAAM 7-14ES	KC
K2	COMBITHERM OVEN W/ STACK KIT	ALTO SHAAM 7-14ES	KC
K11 K14	RANGE W/ OVEN REFRIGERATED SELF-SERVER CASE	VULCAN EV36-S-6FP-208 STRUCT CONCEPTS B42	KC KC
K14 K15	REFRIGERATED SELF-SERVER CASE	STRUCT CONCEPTS B62	KC
K20	1 SECTION ROLL-IN REFRIGERATOR	TRUE TR1RRI-1S	KC
K27	FOOD PREP SINK W/ 2HP DISPOSER	CC ITEM - SEE SPECIFICATIONS	CC
K28	OVERHEAD SHELF	VCS BUYOUT	КС
K29	FOOD PREP SINK W/ 2HP DISPOSER	SEE SPECIFICATIONS	CC
K31			KC
K32	ICE BIN	HOSHIZAKI B-900PF	KC KC
K37 K38	WORK TABLE W/ DRAWER AND OVERHEAD SHELF WORK TABLE W/ DRAWER AND OVERHEAD SHELF	VCS BUYOUT VCS BUYOUT	KC
K40	WORK TABLE W/ DRAWER AND OVERHEAD SHELF	VCS BUYOUT	KC
K49	SLICER	GLOBE 3975	КС
K50	FOOD PROCESSOR	ROBOT COUPE R2DICE	KC
P6	BAKER'S RACK	HUBERT 95555	КС
SB5	SALAD/DELI CASE	FABRICATED W/ 4 COLD	CC
SS1	SAUTE STATION W/ INDUCTION	FABRICATED W/ 1 HOT/1 COLD	CC
STOCKR	ROOM		
K30	CAN STORAGE RACK	WIN-HOLT EQUIP CR-162M	KC
K41	STORAGE SHELVES	VCS BUYOUT FROM METRO	KC
K42A	STATIONARY SHELVES	VCS BUYOUT FROM METRO	KC
K42B	MOBILE SHELVES DUNNAGE RACK	VCS BUYOUT FROM METRO VCS BUYOUT	KC KC
K//			
K44 K45	CO2/SYRUP LINE CONDUIT	CC ITEM - SEE SPECIFICATIONS	CC











3 MAIL ROOM - FLOOR MATERIAL PLAN 1-A17 1/8" = 1'-0"



REVISIONS		

ROOM FINISH SCHEDULE LEGEND		
FLOOR REMARKS	MTRL.	DES
R1: NOT USED	ACT1	ACO
R2. SEE FLOOR PATTERN PLANS FOR VARYING	ACT2	ACO
MATERIALS. R3: T=PT1A, R=PT1A, L=PT1A, S=PNT1	ACT3	ACO
R3: T=PT1A, R=PT1A, L=PT1A, S=PNT1 R4: PROVIDE QT FLOORING IN PRE-FABRICATED WALK-IN	ACT4	ACO
COOLER & FREEZER UNITS.	ACT5	ACO
R5-R25: NOT USED	CPT1	MOD
BASE REMARKS	CPT2	MOD
	СТ	CER
R26: WALK-IN COOLER & FREEZER SHALL BE PRE-	FRP	FIBE
FABRICATED UNITS. R27-R50: NOT USED	PLAM1	PLAS
(27-1(30. NOT 03ED	PLAM2	PLAS
WALL REMARKS	PNT1	PAIN
R51: NOT USED	PNT2	PAIN
R52: SEE INTERIOR ELEVATIONS FOR VARYING WALL	PNT3	PAIN
MATERIALS.	PNT4	PAIN
R53: PROVIDE ACCENT WALL.	PNT5	PAIN
R54: PROVIDE FULL HEIGHT CERAMIC ACCENT TILE AT	PNT6	PAIN
SINK WALL. R55: WALL-IN COOLER & FREEZER SHALL BE	PNT7	PAIN
PRE-FABRICATED UNITS. R56-R75: NOT USED	PSTR	PAIN
R30-R75. NOT 03ED	PSIR PT1	PAIN
CEILING REMARKS	- PT1A	POR
R76: NOT USED	PT2	POR
R77: SEE REFLECTED CEILING PLANS FOR VARYING	PT2 PT3	POR
CEILING MATERIALS AND HEIGHTS.	PT4	POR
R78: PROVIDE ACCENT PAINT AT BULKHEADS.	PT4 PT5	POR
R79: WALK-IN COOLER & FREEZER SHALL BE PRE-FABRICATED UNITS.	PT6	POR
R80-R100: NOT USED	PT7	POR
	- PT8	POR
GENERAL NOTES	PT9	POR
1. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION	QT	QUA
OF FINISH SYSTEMS/TYPES.	QS1	
2. REFER TO WALL TYPES FOR MASONRY LOCATIONS AND	QS1 QS2	
DETAILS.	QS2 QS3	
3. GYPSUM WALLBOARD BULKHEADS AND SOFFITS SHALL BE PAINTED.	RB1	RUB
4. ALL HOLLOW METAL DOORS AND FRAMES, INTERIOR AND	RP1	RES
EXTERIOR, SHALL BE PAINTED.	RP2	RES
5. ALL INTERIOR AND EXTERIOR FERROUS METAL SHALL BE	RP3	RES
PAINTED INCLUDING LINTELS, RAILINGS, GRILLES, AND	VCT	VINY
LOUVERS. (DOES NOT INCLUDE FACTORY OR PRE-	WD	WOC
FINISHED ITEMS) 6. SEE FINISH PLANS FOR TRANSITIONS OF MATERIALS.	WP	WOC
V. OLET INIGHT LANGT ON TRANSMOVIO VE WATENIALD.	VVI <sup>-</sup>	1000

# **GENERAL NOTES**

1. PROVIDE FLASH PATCHING FROM ALL MATERIALS FOR FLUSH TRANSITION OF ADJOINING MATERIAL.

2. REFER TO DRAWINGS 1-A5 FOR PATTERN OF FLOOR FINISHES. HATCHING ON THIS SHEET INDICATES MATERIALS ONLY.

					FIN	NISH LEG	GEND				
MTRL. ACT1 ACT2	DESCRIP. ACOUSTICAL		ARMS		APPROVED EQUAL	ULTIMA	E/ COLOR A, NO. 1951, SIZI A, NO. 3251, SIZ			REMAR  	KS
ACT3 ACT4 ACT5	ACOUSTICAL T ACOUSTICAL T ACOUSTICAL	TILE CEILING TILE CEILING	ARMS ARMS	STRONG OR A	APPROVED EQUAL APPROVED EQUAL APPROVED EQUAL	CLEAN OPTIMA OPTIMA	ROOM MYLAR, A, TECH ZONE, A, NO. 3261, SIZ	NO. 1715, SIZE NO. 3256, SIZE ZE: 24" X 72"	E: 48" X 48"		
CPT1 CPT2 CT FRP	MODULAR CAP MODULAR CAP CERAMIC TILE	RPET TILE	ATLA DAL-	V CONTRACT S CARPET MI FILE A SAN COMP	LLS	PATTEF PATTEF	RN: JASPER TIL RN: TAUSERT T RN: SEMI-GLOS I: WHITE, SIZE: 2	ILE, NO. 21RT S, NO. K165 AL	POLISHED GREY		TION: MONOLITHIC TION: BRICK MONOLITHIC
PLAM1 PLAM2 PNT1	PLASTIC LAMI	NATE - VERTICAL	WILS OP WILS	ON ART ON ART WIN WILLIAM		COLOR COLOR	1: 7953-38 HARV 1: 4853-38 MISS 1: KILIM BEIGE, 1	EST MAPLE		  	
PNT2 PNT3 PNT4	PAINT- ACCEN PAINT- ACCEN PAINT- ACCEN	IT IT	SHEF SHEF	RWIN WILLIAM RWIN WILLIAM RWIN WILLIAM	IS IS	COLOR COLOR	I: VIRTURAL TAI I: SVELTE SAGE I: ESCAPE GRA' I: DIVINE WHITE	E, NO. SW6164 Y, NO. SW6185	,	  	
PNT5 PNT6 PNT7		W METAL FRAME W METAL FRAME	SHEF	RWIN WILLIAM RWIN WILLIAM RWIN WILLIAM	IS	COLOR	:: KILIM BEIGE, I I: VIRTURAL TAI	NO. SW6106		ROOMS: 1	TIONS UNLESS NOTED OTHERWISE 001A (INTERIOR FACE) 1008, 1008A, 1012, 1015, 1016, 1018, 1019, 1020.
PSTR PT1 PT1A	PAINTED STRU PORCELAIN TI PORCELAIN TI	LE	DAL- DAL-	ΓILE	IS	PATTEF PATTEF	:: DIVINE WHITE RN: MONT BLAN RN: MONT BLAN	IC, NO. P236 D IC, NO. P236 D	'ALPE 'ALPE		12" FOR STAIR APPLICATION
PT2 PT3 PT4 PT5	PORCELAIN TI PORCELAIN TI PORCELAIN TI PORCELAIN TI	LE	DAL- DAL- DAL-	ΓILE	IF	PATTEF PATTEF	RN: VERANDA, I RN: VERANDA, I RN: VERANDA, I RN: MARINA, NO	NO. P505 SANE NO. P525 RAW	)	SIZE: 6.5" > SIZE: 13" X SIZE: 6.5' X SIZE: 5" X 3	20" 20"
PT6 PT7 PT8	PORCELAIN TI PORCELAIN TI PORCELAIN TI PORCELAIN TI	LE	LAMI	NAM BY CROS	SSVILLE	PATTEF PATTEF	RN: I NATURALI RN: BLENDS, NO	, NO. L2224 TR D. L2049 NOCE	AVERTINO AVORIO	SIZE: 39" X SIZE: 39" X	118"
PT9 QT QS1	PORCELAIN TI QUARRY TILE QUARTZ SURF	ACE - BASE	METF CAME			PATTEF PATTEF	RN: ECO QUARI RN: DESERT CO	RY, NO. 507 PU DLLECTION, NO	). 2095 SUSSEX	SIZE: 6" X 6 SIZE: 8" X 2	24"
QS2 QS3 RB1 D RP1	QUARTZ SURF QUARTZ SURF RUBBER BASE RESINOUS PA	ACE	CAME CAME JOHN 3-FOF	BRIA ISONITE OR <i>F</i>	APPROVED EQUAL	PATTEF COLOR		OLLECTION , N MINED	0. 2095 SUSSEX O. 0210 CARDIFF CREAM		TOPS AND WALL CAPS
RP2 RP3 VCT WD WP	RESINOUS PA RESINOUS PA VINYL COMPO WOOD CEILING WOOD PANEL	NEL NEL SITION TILE G SYSTEM	3-FOF 3-FOF ARMS ARMS	RM		PATTER PATTER PATTER WOODV	RN: BIRCH GRO RN: BIRCH GRO	VE, FINISH: SA VE + FJORD 2, EXCELON, NC 2, NO. NLC LIGH	ANDSTONE , FINISH: SANDSTONE D. 51858 SANDRIFT WHITE HT CHERRY	  INSTALLAT  	ION: MONOLITHIC
					R	OOM FINISH WALLS	SCHEDULE				
NUMB	BER	NAME	FLOOR	BASE	WALL FINIS		WAIN: FINISH	SCOT HEIGHT	CEILING FINISH		REMARKS
BASEME 1001A 1001B 1002 1003	INDOOR DI INDOOR DI INDOOR DI VENDING VENDING S	NING	PT1/PT5/CP T2 PT1/PT5 PT5 VCT	QS1/PT4 QS1/PT4 QS1 RB	PNT1/PT3/PT4/PT6/PT7/P PNT1/PNT3/WP/S PT6 PNT1		  	  	ACT5/WD/PNT1/PNT3 ACT3//WD/PNT1 ACT2/PNT2 ACT1	R2, R52, R77, F R2, R3, R52, R7 R77, R78	
1004 1005 1006	MENS TOIL WOMEN TO FOOD SER	DILET VICE	PT2 PT2 PT1/PT5/QT	PT3 PT3 QS1/QT	PNT3/PT8 PNT4/PT8 PT3/PT4/PT6/F		PT3 PT3 	6'-0" 6'-0" 	ACT1 ACT1 ACT2/ACT3/PNT3	R52, R54 R52, R54 R52, R54 R2, R52, R77, F	278
1008 1008A 1009 1010	FOOD PRE JANITOR DISHWASH STOCKROO	IING	QT QT QT QT	QT QT QT QT	CT PNT1 CT PNT1		  		FRP PSTR FRP FRP		
1010 1011 1012 1013	STOCKING STAFF LOC STAFF TOIL FREEZER	CKERS	PT2 PT2 QT	PT2 PT2 *	CT CT *				ACT1 ACT1 *	R4, R26, R55, F	279
1014 1015 1016	COOLER OFFICE SAFE ROO		QT QT QT	* QT QT	* PNT1 PNT1				* ACT1 ACT1 ACT1	R4, R26, R55, F	379
1017 1018 1019 1020		RIBUTION ROOM	PT5 VCT VCT VCT	QS1 RB RB RB	PT6 PNT1/PNT4 PNT1 PNT1	4			ACT4/PNT2 ACT1 ACT1 ACT1 ACT1	R77, R78 R53 R53	
1027 1028	Room		VCT VCT	RB RB	PNT1 PNT1				PSTR		
FIRST FL 26 1021 1022 1023 1024	LOOR CORRIDOR RETAIL SAI STORAGE CANTEEN ( COUNTING	LES OFFICE	PT5 PT1/PT5 VCT CPT1 CPT1	QS1 QS1 RB RB RB	PT6 PNT1/PNT2/PN PNT1 PNT1/PNT4 PNT1/PNT4	4	  	   	ACT4/PNT2 ACT2/WD/PNT1/PNT4 ACT1 ACT1 ACT1	R77, R78 R2, R3, R52, R7 R53 R53	77, R78
1025 1026	ELECTRICA TOILET	AL/ STORAGE	VCT PT2	RB PT3	PNT1 PNT4/PT8 LOORING LEGEND		 PT3	 6'-0" TRANS	ACT1 ACT2 SITION SCHEDULE AS I	R52, R54	
					CARPET PORCELAIN TILE: 6X6 PORCELAIN TILE: 13X20 PORCELAIN TILE: 5x36	T1PORCT2PORCT3PORCT4PORC	TRANSITION CELAIN TILE TO CELAIN TILE TO CELAIN TILE TO	ON CARPET RESILIENT PORCELAIN T QUARRY TILE	FLOOR MATERIAL DR/         MAT         SCHLUTER, N         JOHNSONITE         ILE         MARBLE         NONE - FLUSS	AWINGS ERIAL IO. SCHIENE	TRANSITION BY PORCELAIN TILE RESILIENT PORCELAIN TILE N/A PORCELAIN TILE
					QUARRY TILE	T6 PORC	CELAIN TILE TO	EXISTING	(@ 1012) MARBLE VERIFY IN FIE		PORCELAIN TILE
					TILE						
										NEW CANTE	EEN & STORE ROOM
			P	ID							
			DOCU March	MENT		one eighth in 0 4	8	oot 16	one quarter inch = 0 4	B DATE:	
on the second se	an Owned VOSB	FACILITY PR	ROJECT N	AME	SCHEDULE	BUIL		BER CHE	EN AND OVATIONS CKED DRAWN CB MER	PROJEC 693-	-31-2014 CT NO. -12-110
30	Ve	WILKES-	-BARRE	V.A. M	EDICAL CENTER		ATION W	VILKES-BA			-A17 21 OF 72



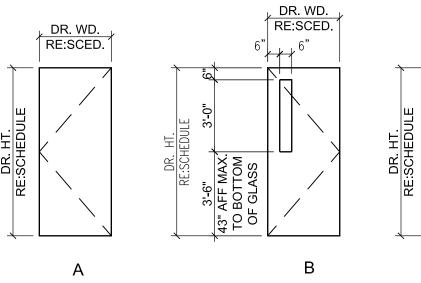


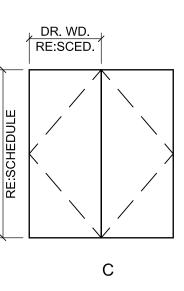


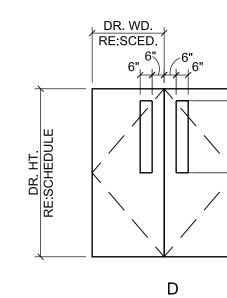
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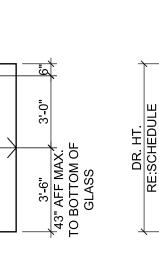
				DOOR						FRAME						
				Doolt	SIZE						DETAILS		-			
	DOOR & FRAME U.L.					1	_					T	-			
OPENING NUMBER	RATING	DOOR TYPE	DOOR MATERIAL	LEAF 1	DTH	HEIGHT	ТНК	FRAME TYPE	FRAME MATERIAL	HEAD	JAMB	SILL	HDWR. SET	GLAZING	SPECIAL DETAIL	REMARKS
BASEMENT LE	L VEL															
1001A	90 MIN.	D	WD	4 - 0"	4 - 0"	7' -0"	1 3/4"	1	НМ	9/1-A34	10/1-A19	11/1-A34	HW-12	1/4" SAFETY		1
1001B		E	ALUM	3' - 0"	3' - 0"	7' -0"	1 3/4"	A1	ALUM	12/1-A34	13/1-A19	14/1-A19	HW-E1	5/8" TEMP. INSU.		3
1003	20 MIN.	А	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1-A34	2/1-A19		HW-5	-		
1004	20 MIN.	A	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1-A34	2/1-A19		HW-1	-		
1004A	20 MIN.	A	WD	3' - 0"		7' -0"	1 3/4"		НМ	1/1 <b>-</b> A34	2/1-A19		HW-5			
1005	20 MIN.	A	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1-A19		HW-1	-		
1005A	20 MIN.	A	WD	3' - 0"		7' -0"	1 3/4"	1	НМ	1/1-A34	2/1-A19		HW-5			
1008	90 MIN.	В	НМ	4' - 0"	-	7' -0"	1 3/4"	2	НМ	1/1-A34	2/1-A19		HW-4D	1/4" SAFETY		
1008A		A	НМ	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1-A34	2/1-A19		HW-5	-		
1010		A	НМ	3' - 0"	-	7' -0"	1 3/4"	2	НМ	7/1 <b>-</b> A34	8'/1-A19		HW-5	-		
1011		A	HM	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1-A34	2/1-A19		HW-5A	-		2
1012		A	HM	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-2	-		2
1015		A	НМ	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-3	-		
1016		A	HM	3' - 0"	-	7' -0"	1 3/4"	1	HM	1/1 <b>-</b> A34	2/1-A19		HW-5	-		
1017A	5/8" TEMP. INSU.	В	НМ	3' - 0"		7' -0"	1 3/4"	2	HM	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-E2	5/8" TEMP. INSU.		
1019		A	HM	4' - 0"		7' -0"	1 3/4"	2	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-5B			
1020		A	НМ	4' - 0"		7' -0"	1 3/4"	2	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-5B			
FIRST FLOOR																
1021	90 MIN.	D	WD	4' - 0"	4' - 0"	7' -0"	1 3/4"	1	НМ	9/1 <b>-</b> A34	10/1 <b>-</b> A19		HW-12	1/4" SAFETY		1
1022	20 MIN.	С	HM	3' - 0"	3' - 0"	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-11A			
1023	20 MIN.	A	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-3	-		
1024		A	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-3	-		
1025	20 MIN.	A	WD	3' - 0"	-	7' -0"	1 3/4"	1	НМ	1/1 <b>-</b> A34	2/1 <b>-</b> A19		HW-5	-		
1026	20 MIN.	A	WD	3' - 0"	-	7' -0"	1 3/4"		НМ	20/1-A34	8/1-A19		HW-2			

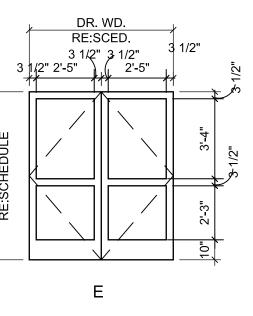
2. UNDERCUT DR. 1" 3. DOOR IN ALUMINUM ASSEMBLY A1.A





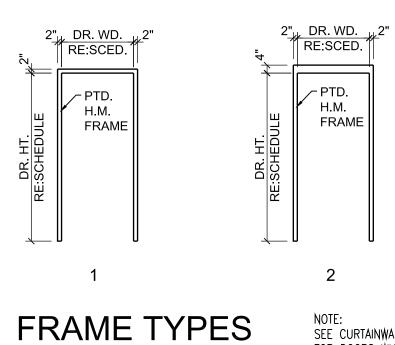


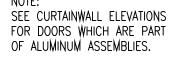


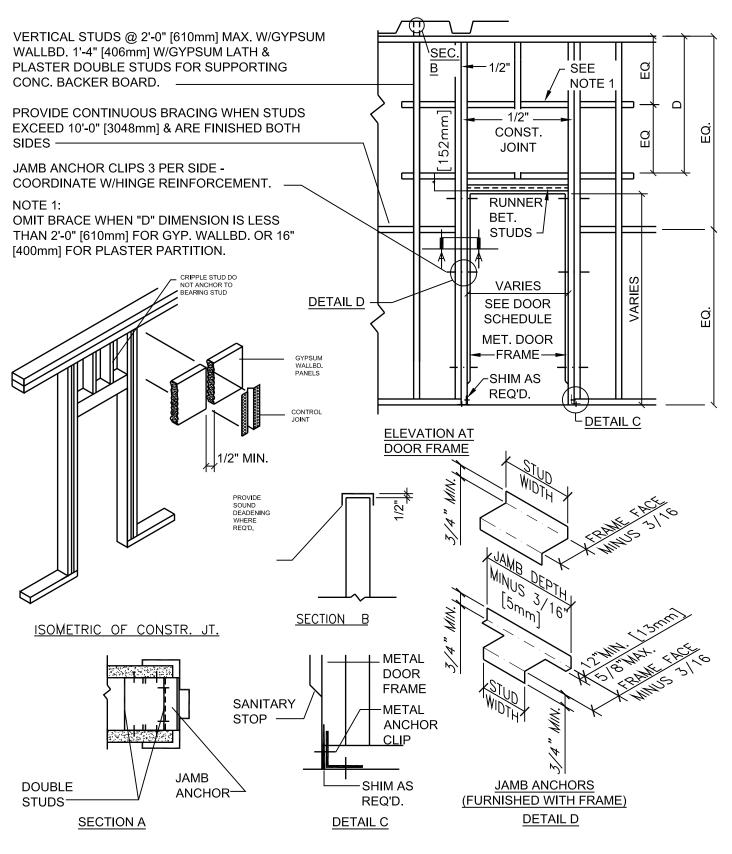


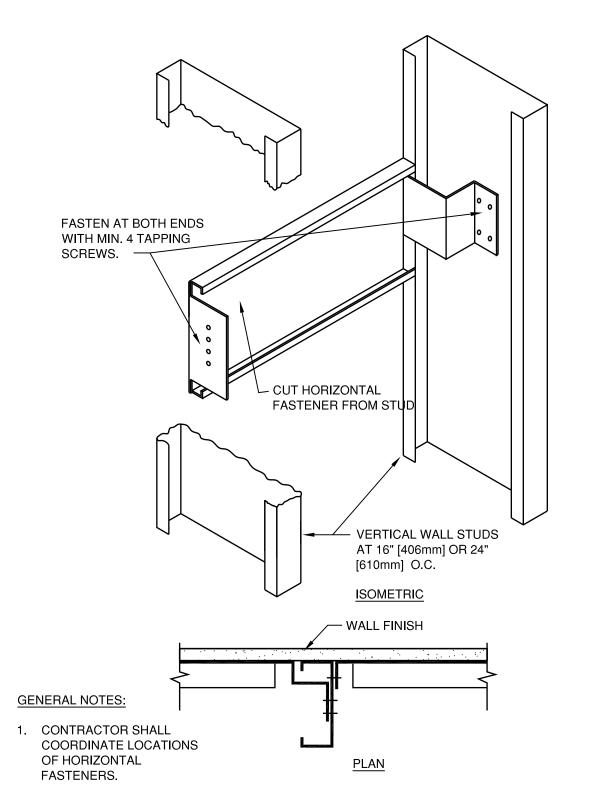
DOOR TYPES SCALE: 1/4" = 1'-0"

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



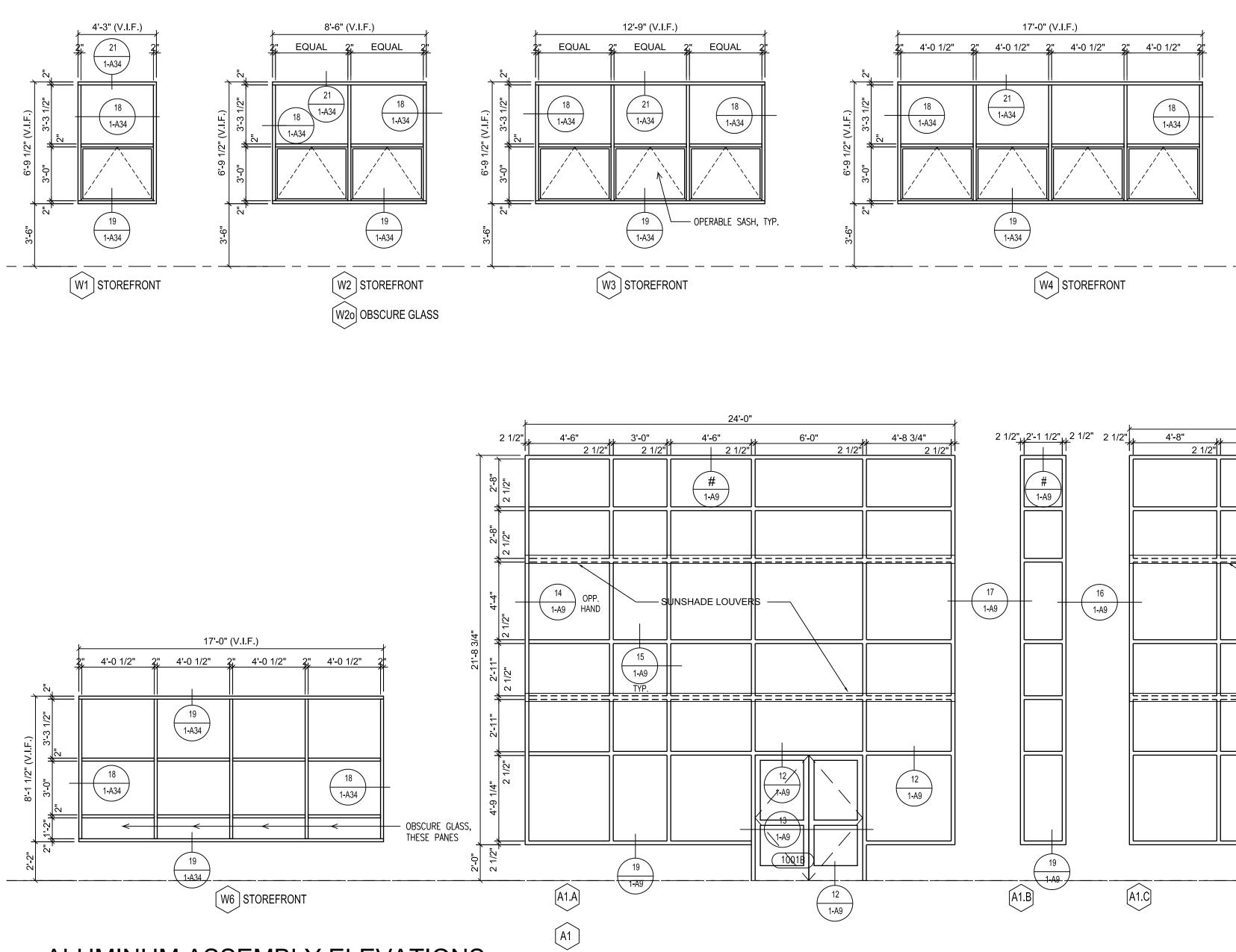


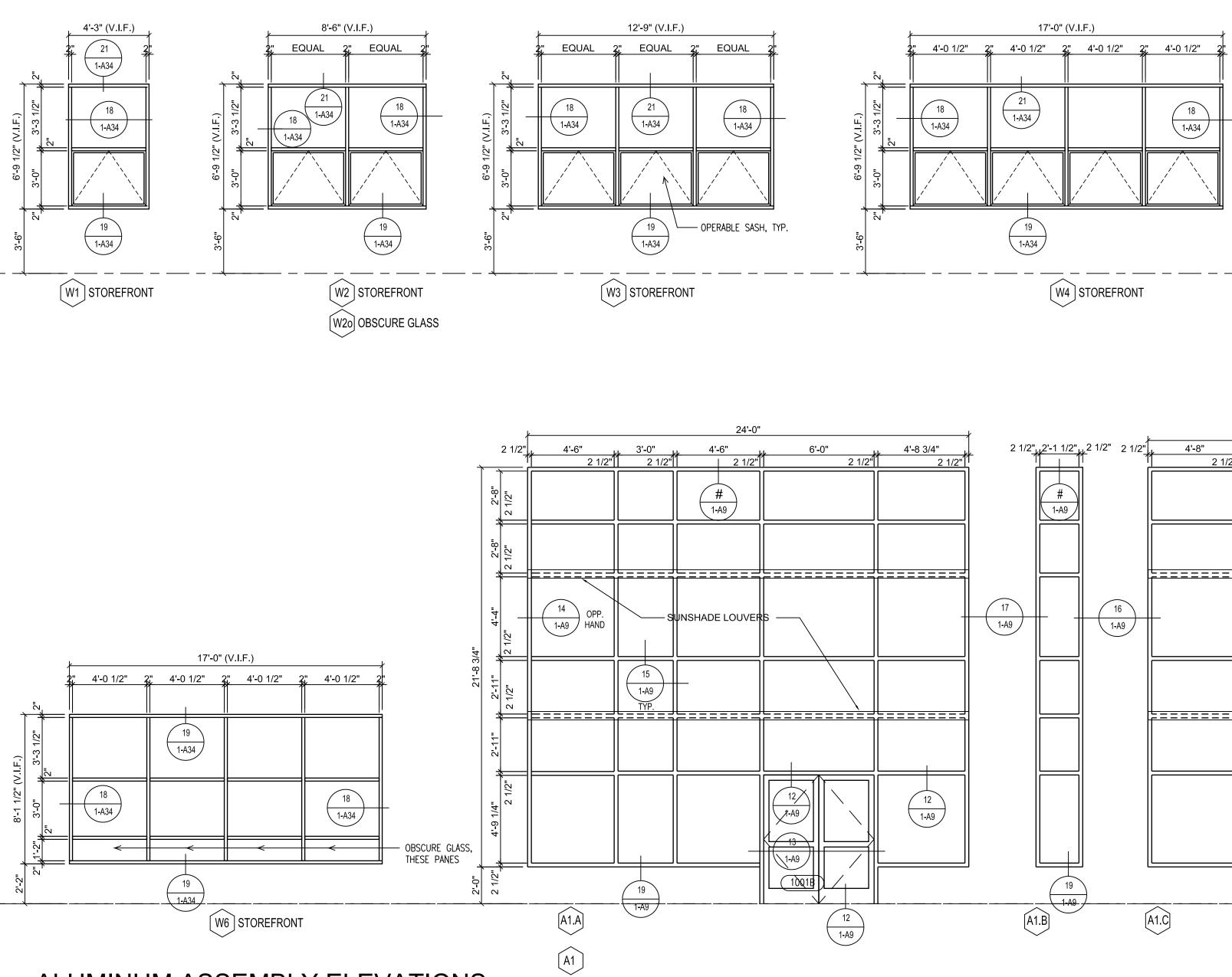




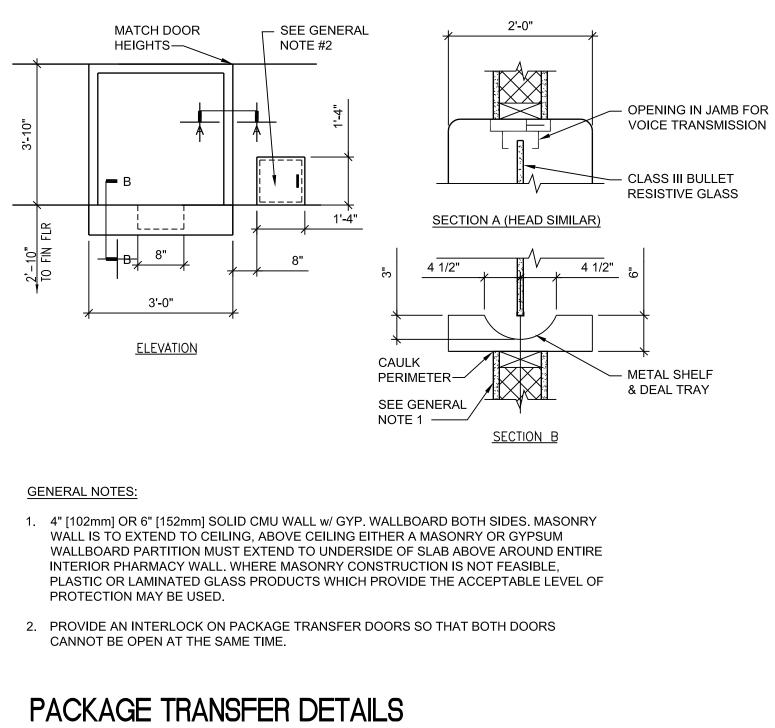
NTS

# FRAMING DETAILS SCALE: 1/2" = 1'-0"





### ALUMINUM ASSEMBLY ELEVATIONS SCALE: 1/4" = 1'-0"

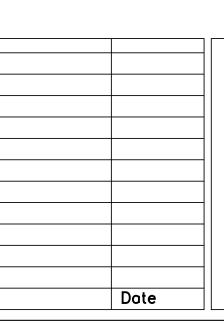


TYP. BLOCKING DETAIL - GRAB BARS AND CABINETS



Revisions		

BID DOCUMENTS MARCH 31, 2014 Drowing Title DOOR SCHEDULE WINDOW & ALUMINUM ASSEMBLY ELEVATIONS SDVOSB Facility Project Name WILKES-BARRE V.A. MEDICAL CENTER

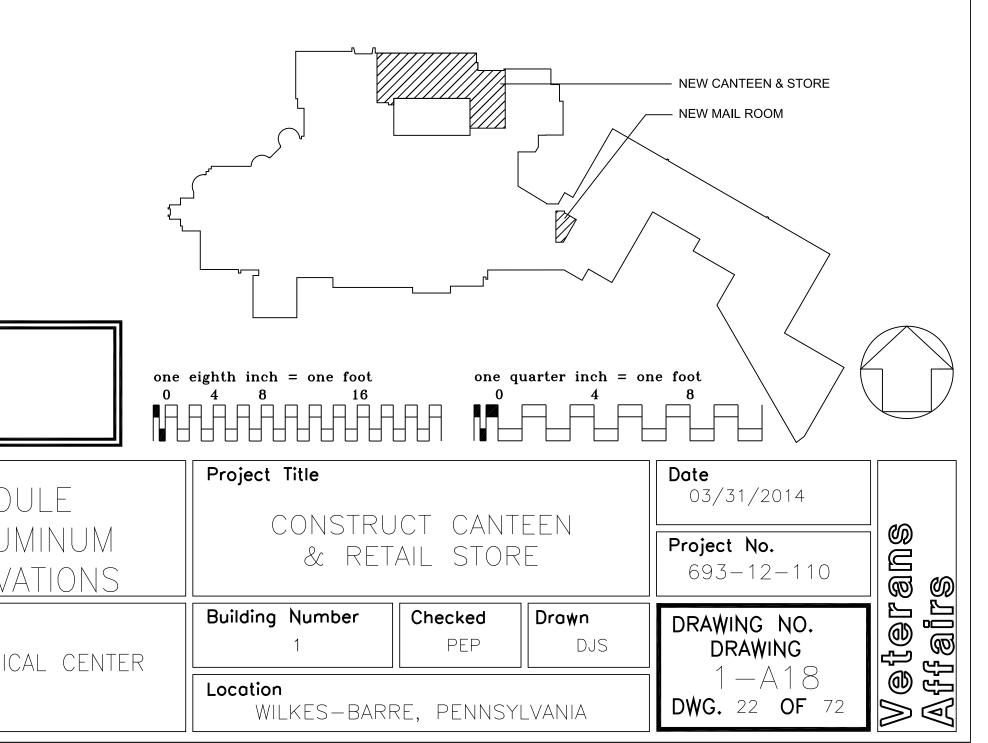


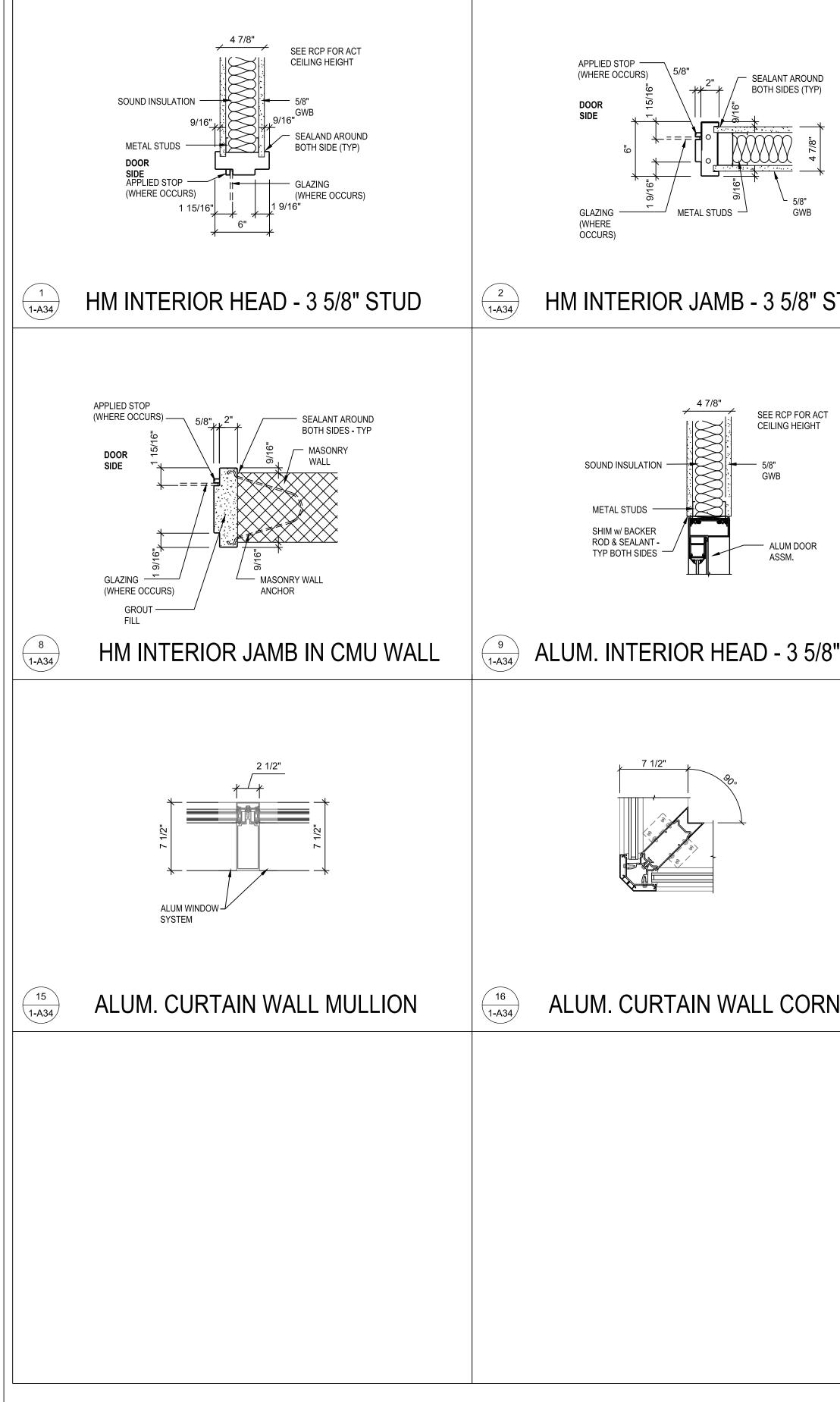


2" 4'-0 1/2" 4'-0 1/2" 4'-0 4'-0 1/2" 4'-0 1/2" 4'-0 1/2" 4'-0 1/2" 4'-0 1/2" 4'-0 1/2" 4'-0 1

			38'-0					ł
*	6'-0"	<u>4'-6"</u>	<del>∦ <sup>3'-0"</sup> ∦</del>	4'-6"	<del>水 3'-0"</del> 水	6'-0"		2 1/2"
/2"	21	/2"[2 1/2"	<u>   2 1/2" </u>	2 1/2"	2 1/2"	2 1/2"		י ן
	# 1-A34							
		SUNSHADE LOUVERS						
	15 1-A34 TYP.						14 1-A9	

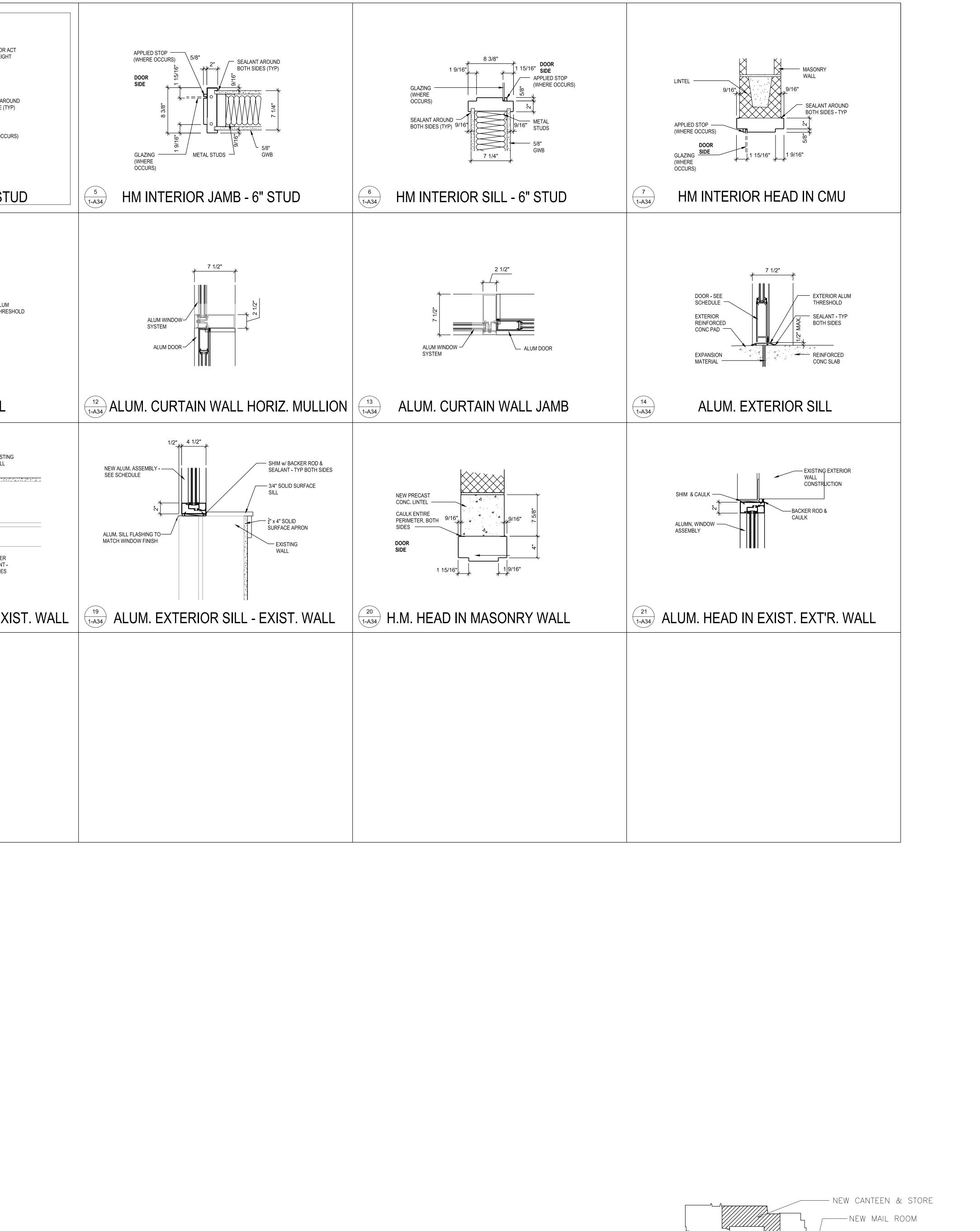
<u>1-A9</u>





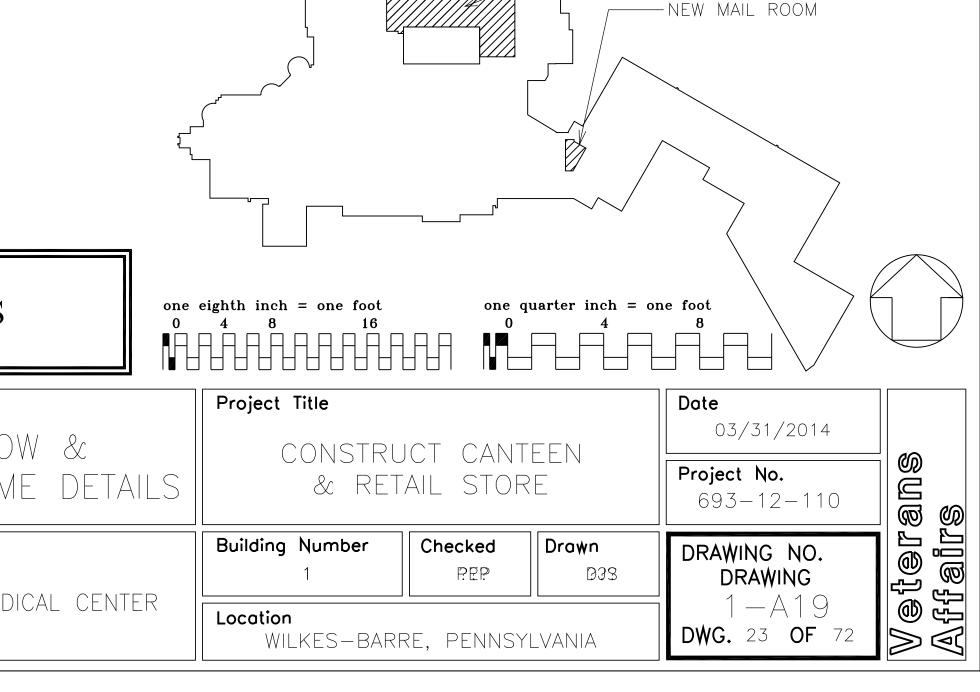
	GLAZING GLAZING (WHERE OCCURS) SEALANT AROUND BOTH SIDES (TYP) 9/16 4 7/8 4 7/8 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUND INSULATION 9/16" WETAL STUDS DOOR SIDE APPLIED STOP 1 15/16" 8 3/8" 7 1/4" SEE RCP FOR AC CEILING HEIGHT SOUND INSULATION 9/16" 9/16" SEALAND AROUL BOTH SIDE (TYP 0 GLAZING (WHERE OCCURS) 1 15/16" 8 3/8" 1 9/16"
STUD	HM INTERIOR SILL - 3 5/8" STUD	HM INTERIOR HEAD - 6" STU
ACT T	ALUM DOOR ASSM. TYP BOTH SIDES METAL STUDS GWB	DOOR - SEE SCHEDULE SEALANT - TYP BOTH SIDES
/8" STUD	(10) ALUM. INTERIOR JAMB - 3 5/8" STUD	ALUM. INTERIOR SILL
	Т 3/4" СТ 2/4 С.125 АЦМ. ВРАКЕ	NEW COMPOSITE SILL TRIM EXIST. FINISH, AS REQ. ALUM WINDOW SYSTEM U U U U U U U U U U U U U U U U U U U
RNER	ALUM. CURTAIN WALL CORNER	18 1-A34 ALUM. EXTERIOR JAMB - EXIS

Revisions	Revisions		



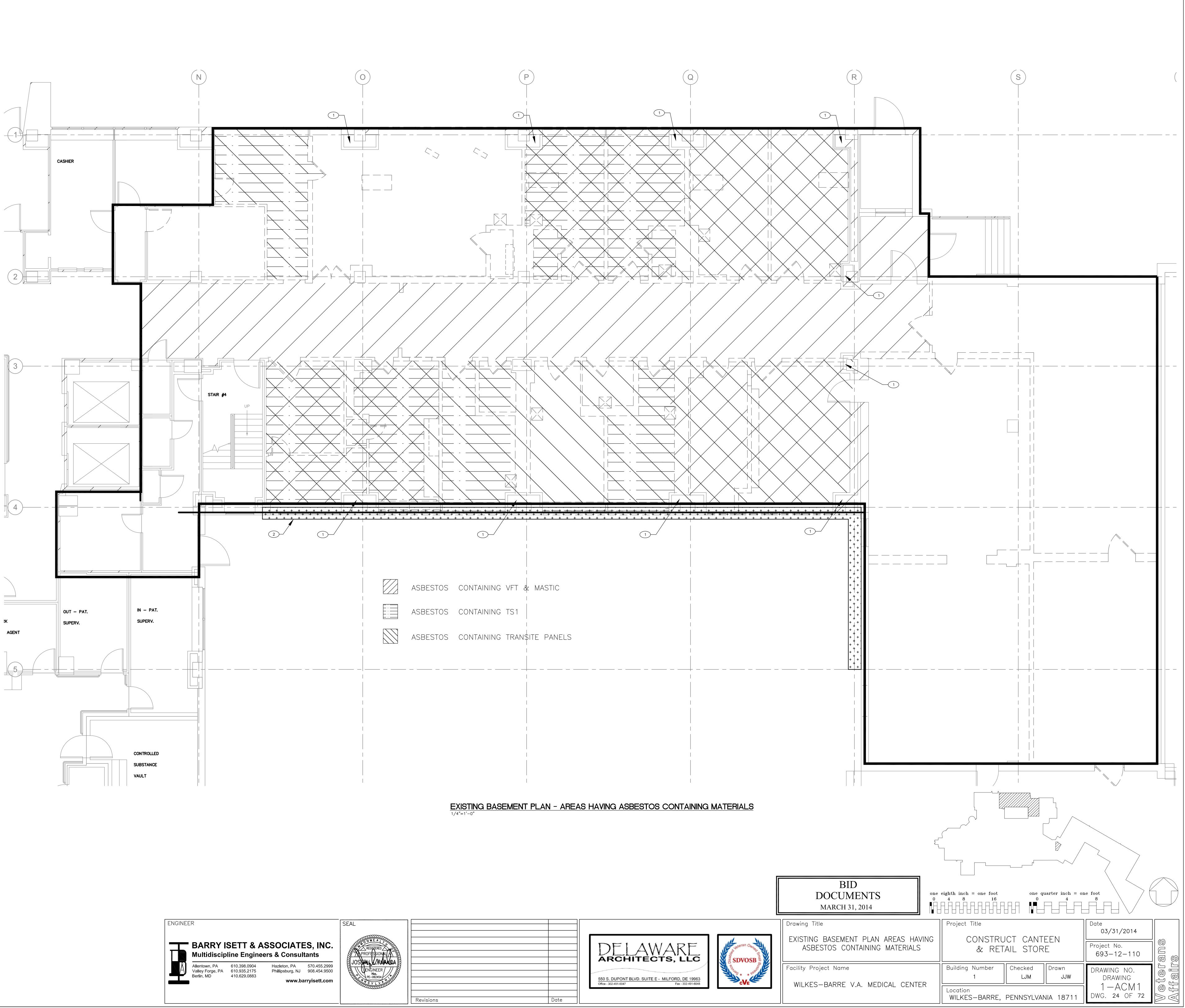
	BID DOCUMENTS MARCH 31, 2014
DELAWARE ARCHITECTS, LLC	Drowing Title DOOR, WINDOW CURTAINWALL FRAME
550 S. DUPONT BLVD. SUITE E - MILFORD, DE 19963 Office - 302-491-6047 Fax - 302-491-6048	Facility Project Name WILKES-BARRE V.A. MEDIC

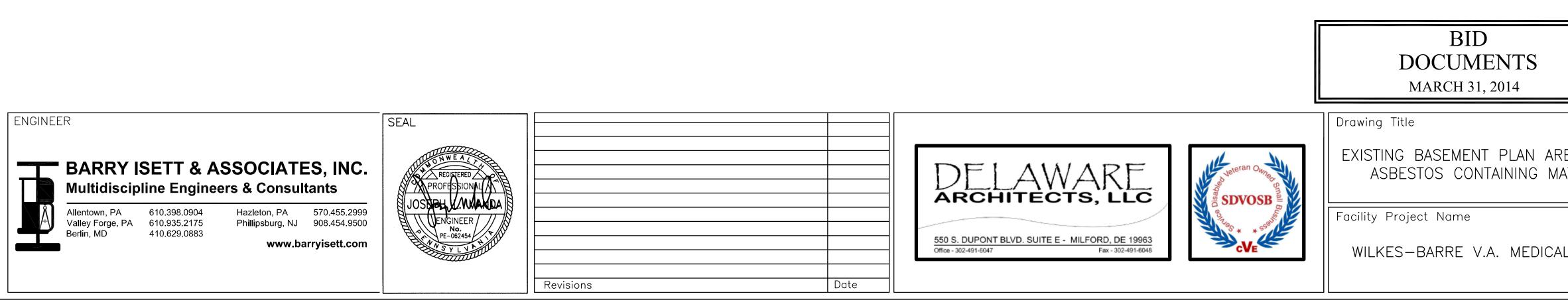
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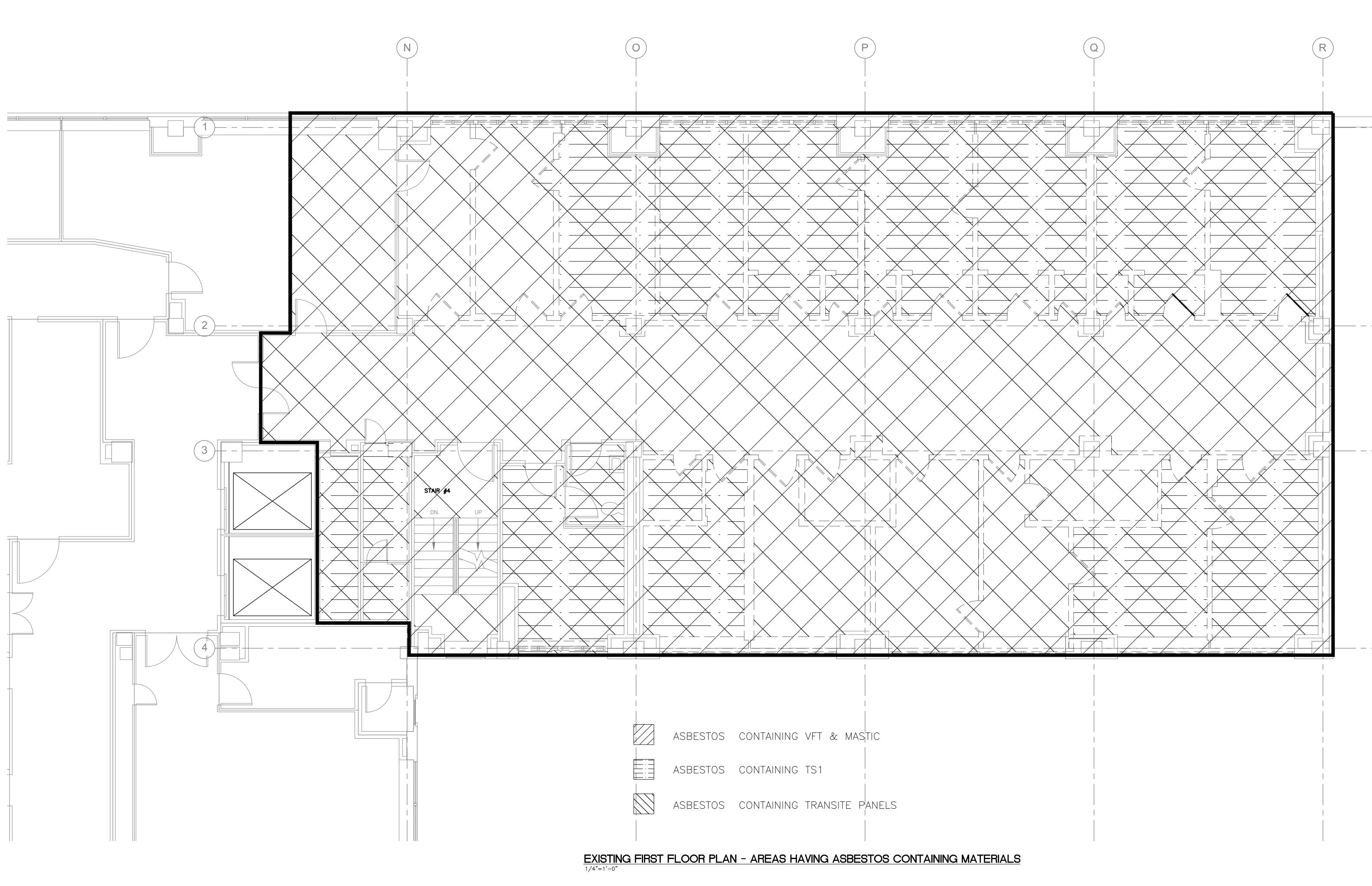


### Notes by symbol: 🖤 (THIS DRAWING ONLY)

1 ENCLOSURE CONTAINS FOUR PIPES AT 30 FEET THAT CONTAIN ASBESTOS. 2 3,500 SF OF ASBESTOS CONTAIN MASTIC UNDER EXTERIOR BRICK.



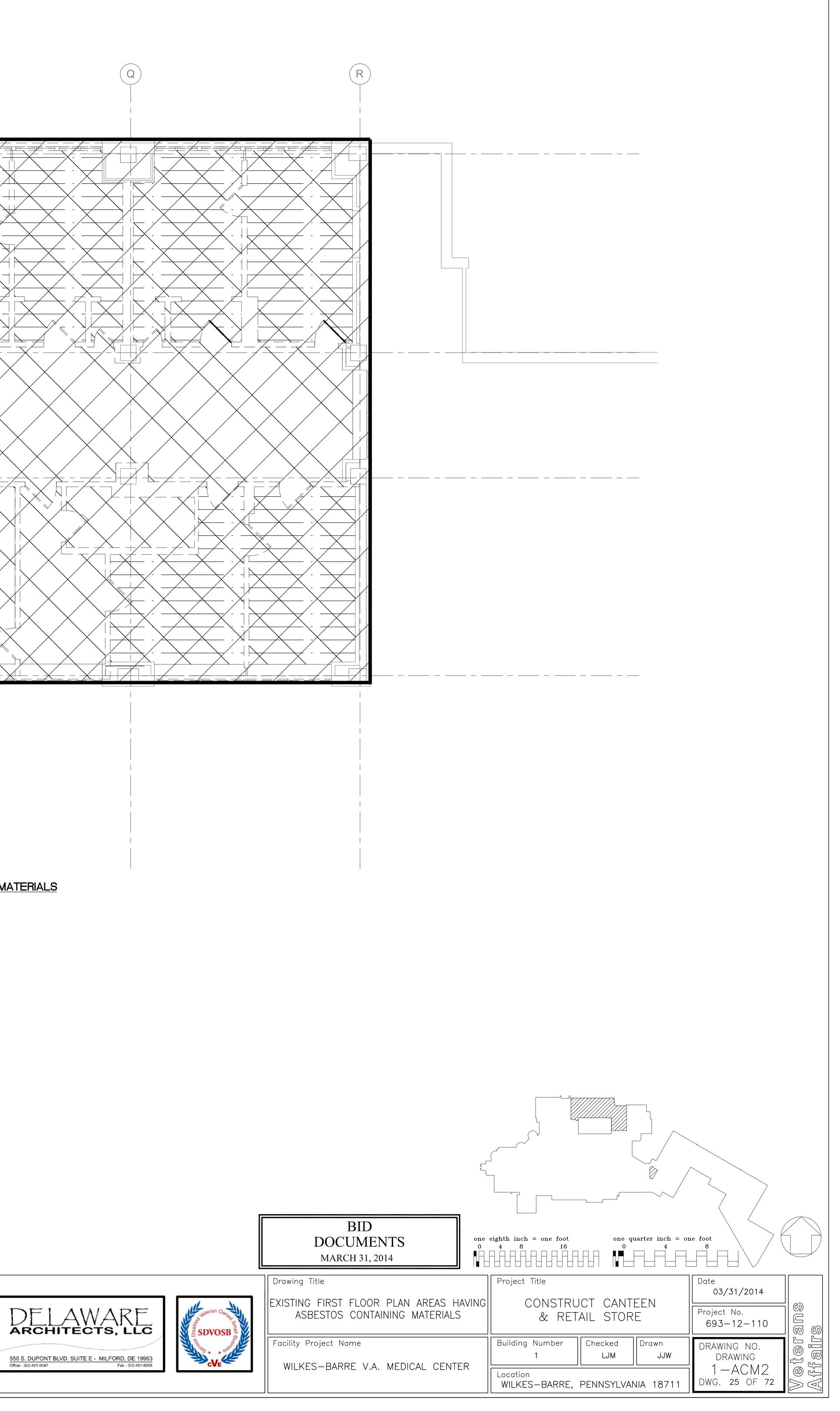




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S, INC.	
570.455.2999 908.454.9500 rryisett.com	
a	S, INC. ants 570.455.2999 908.454.9500

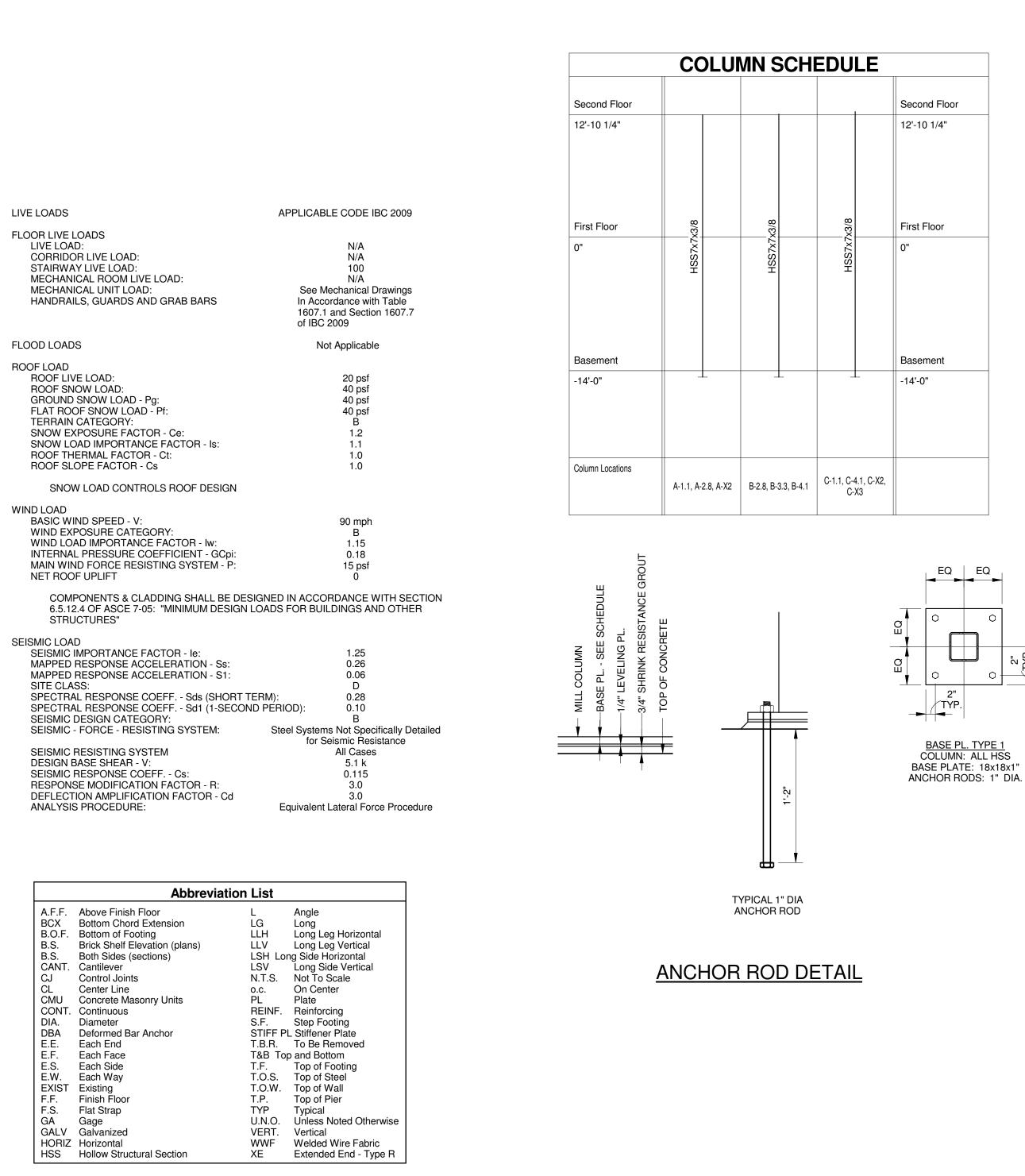
Revisions

Date



LIVE LOADS FLOOR LIVE LOADS LIVE LOAD:

NET ROOF UPLIFT



2"

BASE PL. TYPE 1 COLUMN: ALL HSS

TYP.

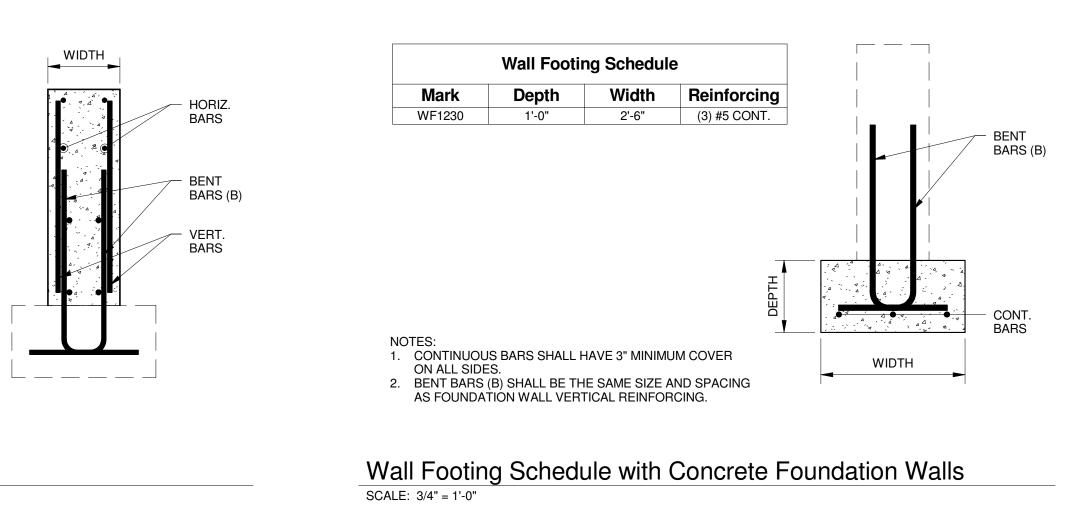
MOMENT CONNECTION DENOTES MOMENT CONNECTION TO BE DESIGNED BY FABRICATOR FOR BEAM MOMENT CAPACITY ALL BEAM CONNECTIONS TO BE DESIGNED FOR 12k MIN. UNLESS NOTED OTHERWISE

> **Concrete Foundation Wall Schedule**  
>  Mark
>  Width
>  Reinforcing
>
>
>  W12
>  1'-0"
>  #4 @ 12" o.c. (V) #4 @ 12" o.c. (H)
>
>
>  W14
>  1'-2"
>  #4 @ 12" o.c. (V) #4 @ 12" o.c. (H)
>  Width

NOTES: 1. ALL REINFORCING BARS SHALL HAVE 2" MINIMUM COVER ON ALL SIDES.
 BENT BARS (B) SHALL BE THE SAME SIZE AND SPACING AS FOUNDATION WALL VERTICAL REINFORCING.

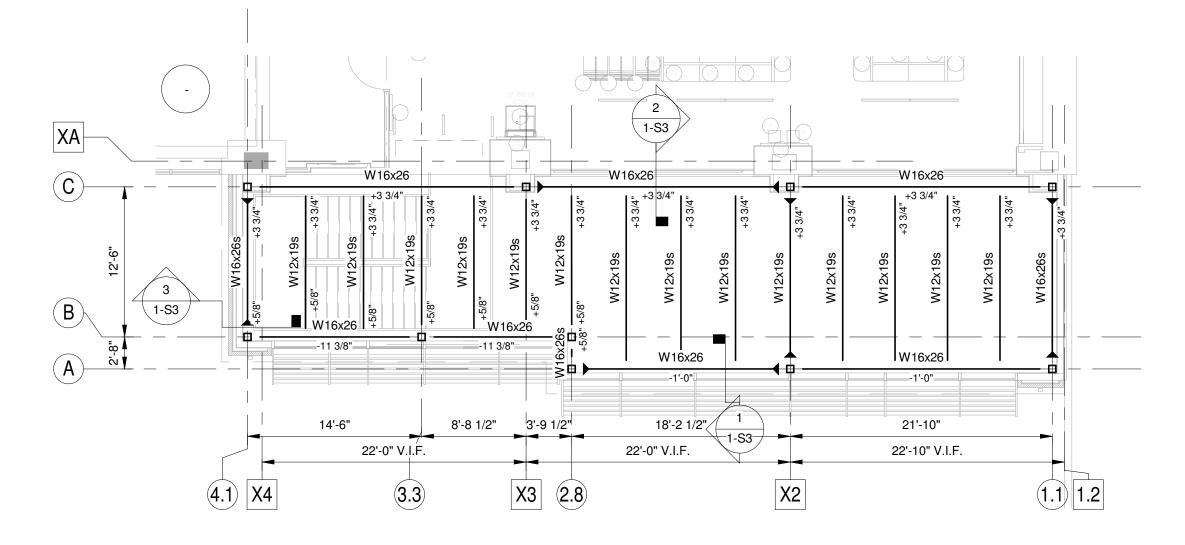
Concrete Foundation Wall Schedule SCALE: 3/4" = 1'-0"

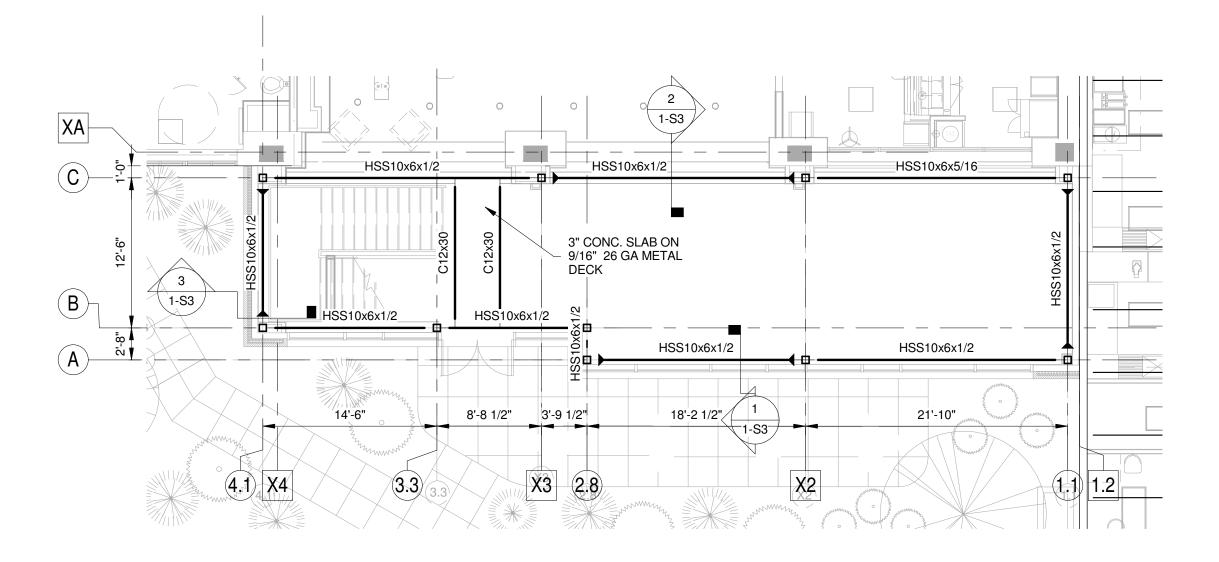
Mark	Width	Length	Thick.	Reinf.
F3.0	3'-0"	3'-0"	1'-0"	3 #5 (E.W
F5.0	5'-0"	5'-0"	1'-2"	5 #5 (E.W
F7.0	7'-0"	7'-0"	1'-8"	6 #6 (E.W
	Square	e Concrete	e Pier Sch	edule
	Square	e Concrete	e Pier Sch Vertical	edule
Mark	•	e Concrete Size		edule Ties
Mark			Vertical	

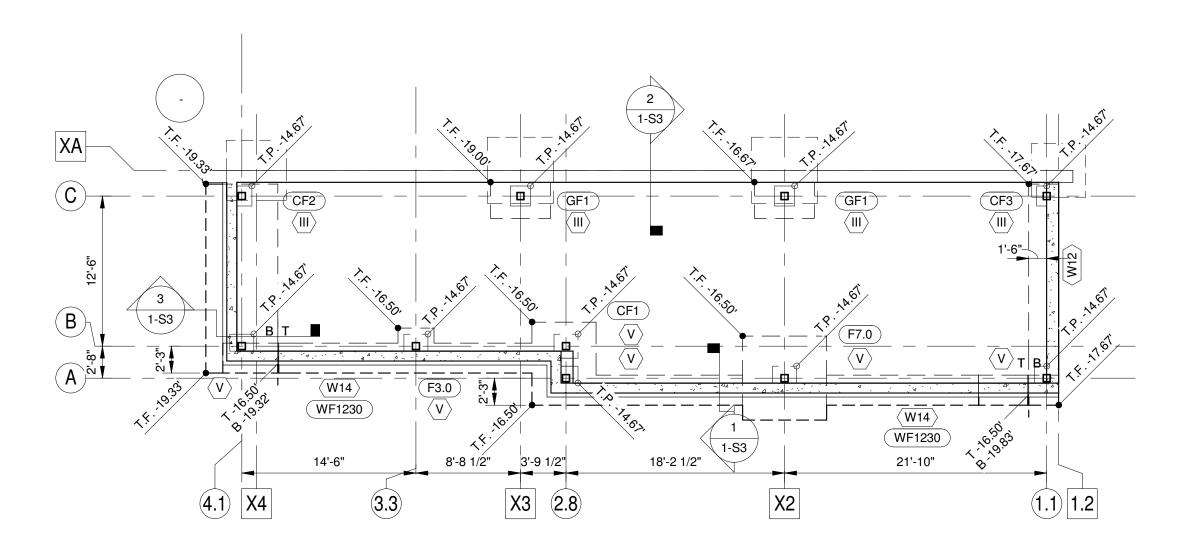


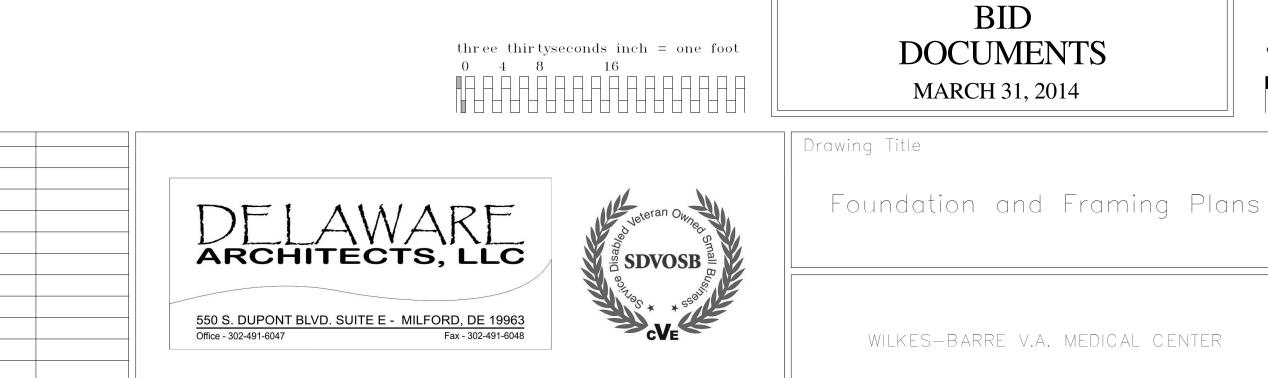
Type Mark Width Length Thick. Reinf.				
CF1 5'-4" 6'-11" 1'-0" (5) #5 bars short direction, #5 @ 12 in. o.c. long direction				
CF2 6'-0" 15'-9" 1'-8" (7) #6 bars short direction, #6 @ 12 in. o.c. long direction				
CF3	2'-6"	18'-5"	2'-2" (5) #5 bars short direction, #6 @ 9 in. o.c. long direction	
		General	Column F	ooting Schedule
Type Mark	Width	General Length	Column F	ooting Schedule Reinf.

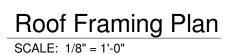












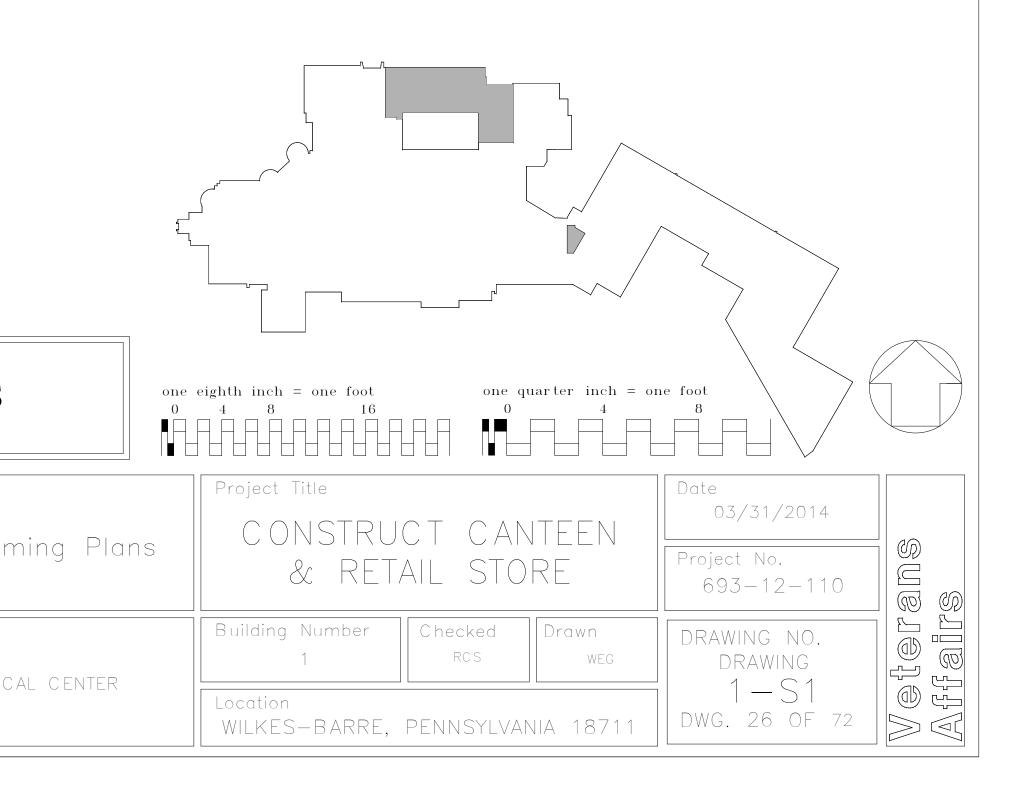
NOTES: 1. TOP OF STEEL ELEVATION (U.N.O.): 12'-10 1/4" VARIATIONS IN TOP OF STEEL ELEVATION (T.O.S.) SHALL BE NOTED AS (+/- 0'-0") MAXIMUM ROOF BEAM OR JOIST SPACING (U.N.O.): 5'-0" ROOF DECKING (U.N.O.): 1-1/2"x22 GA TYPE B GALVANIZED METAL ROOF DECK
 W\*\*x\*\*s DENOTES SLOPING ROOF BEAM

Intermediate Framing Plan SCALE: 1/8" = 1'-0"

NOTES: 1. TOP OF STEEL ELEVATION (U.N.O.): -3"

### Foundation Plan SCALE: 1/8" = 1'-0"

- NOTES: 1. FINISH FLOOR ELEVATION (U.N.O.): -14'-0" 2. FLOOR SLAB: THICKNESS: 4" THICKNESS: 4" THICKNESS: 66-W2 9xW2.9 WWF
- REINFORCING: 66-W2.9xW2.9 WWF 3. STEP FOOTINGS OR SLEEVE FOUNDATION WALLS AS REQUIRED FOR UNDERGROUND PIPING



METAL DECK NOTES

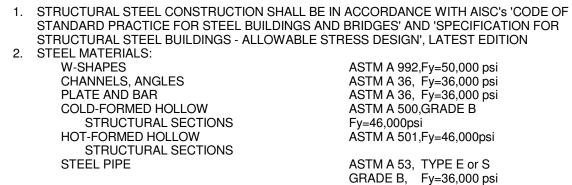
- 1. METAL DECK SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE. ALL COMPOSITE STEEL FLOOR DECK SHALL BE IN CONFORMANCE WITH THE "SPECIFICATIONS FOR COMPOSITE STEEL FLOOR DECK" OF THE STEEL DECK INSTITUTE,
- LATEST EDITION. 2. DECK PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY UNITED STEEL DECK, INC. (USD). DECKS BY OTHER MANUFACTURER'S MAY BE SUPPLIED PROVIDED LOAD CARRYING CAPACITY BASED ON MANUFACTURER'S STANDARD LOAD TABLES, DEFLECTION CHARACTERISTICS, AND UL FIRE RATINGS EQUAL OR EXCEED THOSE OF MATERIALS SPECIFIED AND IF APPROVED BY THE PRIME PROFESSIONAL AND STRUCTURAL ENGINEER.
- 8. INSTALL IN ACCORDANCE WITH SDI SUGGESTED SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. INDIVIDUAL DECK SHEETS SHALL EXTEND OVER AT LEAST THREE SPANS, WITH LAPS TO BE PLACED OVER SUPPORTS. 4. DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING, CLOSURE ANGLES AND
- PLATES, POUR STOPS, SCREED ANGLES, AND ROOF SUMP PANS AS REQUIRED AT THE EDGES OF ALL OPENINGS AND AT ALL SLAB DEPRESSIONS, OR CHANGES OF DECK DIRECTION, INCLUDING THOSE WHICH HAVE NOT BEEN DETAILED.
- 5. ROOF AND NON-COMPOSITE DECKS SHALL BE WELDED TO STEEL SUPPORTS, INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN WITH 5/8" DIAMETER CENTER AT EDGE OF DECK SHEET. FASTEN SIDE LAPS WITH #10 SELF-TAPPING SCREWS AT 36" o.c. MAXIMUM SPACING. 6. COMPOSITE DECKS SHALL BE WELDED TO ALL SUPPORTS INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN WITH 5/8" DIAMETER (EFFECTIVE FUSION DIAMETER) PLUG WELDS AT 12 INCHES ON CENTER INTERIOR AND 6 INCHES ON CENTER AT EDGE OF DECK SHEET. FASTEN SIDE LAPS WITH #10 SELF-TAPPING
- SCREWS AT 30" o.c. HEADED STUDS SHALL BE FIELD INSTALLED BY WELDING THROUGH THE METAL DECK. 7. ALL STEEL FLOOR DECK SHALL BE WELDED TO ALL SUPPORTING STEEL ELEMENTS. WELDING WASHERS SHALL BE USED AS REQUIRED BY THE DECK MANUFACTURER.
- 8. PRIOR TO AND DURING CONCRETE PLACEMENT, THE FLOOR DECK SHALL BE PLANKED TO PREVENT DAMAGE TO THE DECK. CONCENTRATED AND IMPACT LOADS SHALL BE AVOIDED 9. STEEL DECK SUPPLIER SHALL SUBMIT SHOP DRAWINGS INDICATING THE SHEAR STUD
- PLACEMENT. 10. SHEAR CONNECTORS SHALL BE HEADED STUDS CONFORMING TO ASTM A108, GRADES 1010, 1015, 1017, OR 1020. SHEAR CONNECTORS SHALL BE MACHINE WELDED TO
- 11. THE NUMBER OF SHEAR CONNECTORS REQUIRED PER BEAM IS INDICATED ON THE DRAWINGS. WHERE NO SHEAR CONNECTORS ARE INDICATED FOR A BEAM WHICH SUPPORTS A CONCRETE SLAB, PROVIDE SHEAR CONNECTORS AT 24 INCHES ON
- CENTER 12. SHEAR CONNECTORS SHALL BE EQUALLY SPACED OVER THE LENGTH OF THE BEAM UNLESS NOTED OTHERWISE. WHERE THE NUMBER OF STEEL DECK CORRUGATIONS AVAILABLE IS LESS THAN THE NUMBER OF SHEAR CONNECTORS REQUIRED, USE PAIRS OF SHEAR CONNECTORS STARTING FROM EACH END OF THE BEAM AND CONTINUING TOWARD THE CENTER UNTIL IT IS POSSIBLE TO RETURN TO A SINGLE
- SHEAR CONNECTOR IN EACH CORRUGATION. 13. NO MECHANICAL OR ELECTRICAL PIPING, FIXTURES, UNITS OR SYSTEMS MAY BE HUNG DIRECTLY FROM THE ROOF DECK.

# FOUNDATION NOTES

- . FOUNDATION SOIL-BEARING PRESSURE 3000 PSF 2. FOUNDATION SHALL BE PLACED ON VIRGIN SOIL AT ELEVATIONS INDICATED ON
- 3. THE CONTRACTOR SHALL HAVE ALL BEARING STRATA APPROVED PRIOR TO PLACEMENT OF THE CONCRETE FOOTINGS. 4. INSTALL CRACK CONTROL OR CONSTRUCTION JOINTS AT 30-FOOT MAXIMUM CENTERS IN WALLS. LOCATIONS SHALL BE APPROVED BY ENGINEER.
- TOP OF FOOTING ELEVATIONS ARE NOTED (000.00). TOP OF PIER OR WALL ELEVATIONS ARE NOTED [000.00]. 6. ALL TOPSOIL, SOIL FILL, AND SOFT SUBSOIL SHALL BE REMOVED AND, IF NECESSARY, REPLACED WITH COMPACTED LOAD-BEARING FILL MATERIALS. TEST PITS OR SOIL
- BORINGS SHALL BE CONDUCTED TO DETERMINE THE LOCATION OF THE VIRGIN SOIL. . ANY UNDERCUT AND REPLACEMENT WITH COMPACTED LOAD-BEARING FILL SHALL EXTEND LATERALLY BEYOND FOOTINGS A DISTANCE AT LEAST EQUAL TO THE DEPTH
- OF THE UNDERCUT. 8. AFTER UNDERCUTTING AND REMOVAL OF UNSUITABLE SOIL, THE EXPOSED UNDER-LYING RESIDUAL SOILS IN THE PROPOSED BUILDING AREA SHALL BE PROOFROLLED AND COMPACTED. SOFT AND/OR UNSTABLE AREAS DISCLOSED BY THE PROOFROLLING SHALL BE ROLLED UNTIL STABILITY IS OBTAINED OR UNTIL FURTHER UNDERCUT FIRM MATERIAL IS REACHED.
- 9. FOOTINGS SHALL BE BASED ON STIFF SUBSOIL OR LOAD-BEARING FILL MATERIALS WITH A MINIMUM OF AT LEAST TWO FEET OR ONE-HALF THE FOOTING WIDTH, WHICHEVER IS 10. PLACE LOAD-BEARING FILL MATERIALS IN LAYERS NOT MORE THAN EIGHT INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN FOUR INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. FILL MATERIAL SHALL BE MOISTENED OR AERATED AS NECESSARY.
- 11. EACH LIFT SHALL BE COMPACTED TO AN AVERAGE DRY DENSITY OF NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY ACCORDING TO ASTM D698 (STANDARD PROCTOR) FOR ALL FOOTING AND FLOOR SUBGRADES.
- 12. THE SUB-FLOOR MATERIALS SHALL CONSIST OF AT LEAST FOUR TO SIX INCHES OF GRAVEL OR CRUSHED STONE. THE SUB-FLOOR MATERIALS SHALL BE COMPACTED BY AT LEAST FOUR COVERAGES OF A HEAVY-DUTY VIBRATORY ROLLER OR UNTIL NO FURTHER COMPACTION IS OBSERVED. SEE THE DRAWINGS AND SPECIFICATIONS FOR THE VAPOR
- BARRIER SIZE, TYPE AND LOCATION. 13. IN AREAS WHERE SOFT/LOOSE ZONES OR POSSIBLE VOIDS EXIST AT DEPTH, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY. SUCH AREAS SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED LOAD-BEARING FILL, OR FLOWABLE CONCRETE FILL AS DIRECTED BY THE DESIGN PROFESSIONAL. IN ADDITION, FOOTINGS SHOULD BE OVERSIZED AND PROPORTIONED FOR A REDUCED ALLOWABLE BEARING CAPACITY, AS DETERMINED BY THE STRUCTURAL ENGINEER, TO BETTER DISTRIBUTE FOUNDATION LOADS AND SPAN ANY LOCALIZED SOFT/LOOSE ZONE OR VOID AREAS.

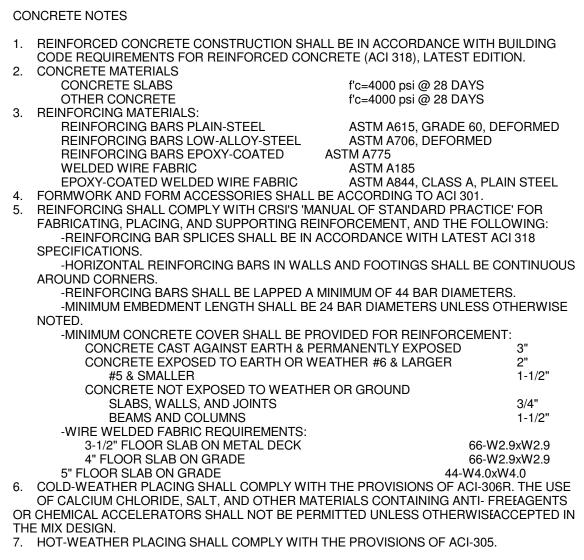
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS FOR THE ENTIRE PROJECT BEFORE PROCEEDING WITH THE WORK.

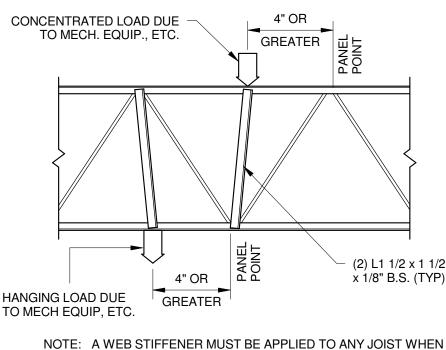




- 3. CONNECTOR MATERIALS: ASTM F1852, TYPE 1, TENSION CONTROL HIGH BOLTS STRENGTH BOLT-NUT-WASHER ASSEMBLY WITH HEX OR ROUND HEADS AND SPLINED ENDS. WELDING ELECTRODES COMPLY WITH AWS REQUIREMENT UNHEADED ANCHOR RODS ASTM F1554, GRADE 36, Fy=36,000 psi 4. ALL BEAM-TO-COLUMN CONNECTIONS SHALL BE AISC STANDARD FULL DEPTH CONNECTIONS, UNLESS NOTED OTHERWISE. WHERE REACTIONS ARE INDICATED ON THE DRAWINGS, THE CONNECTION SHALL BE PROVIDED BY THE FABRICATOR. DETAILS AND CALCULATIONS, PREPARED BY A LICENSED ENGINEER, SHALL BE PART OF THE SHOP
- DRAWING SUBMISSION. 5. ALL CONNECTIONS SHALL BE HIGH-STRENGTH FRICTION BOLTS OR WELDS OF EQUAL STRENGTH. ANCHOR BOLTS AND FIELD CONNECTIONS OF GIRTS FOR SHEAR SHALL BE
- UNFINISHED BOLTS. ELEVATION OF TOP OF STEEL MEMBERS ARE NOTED (+-). STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST AISC AND SJI SPECIFICATIONS.
- 8. JOIST BRIDGING SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE LATEST SJI SPECIFICATIONS. BRIDGING SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- 9. METAL DECKING SHALL BE INSTALLED IN 3 SPAN CONDITIONS MINIMUM.

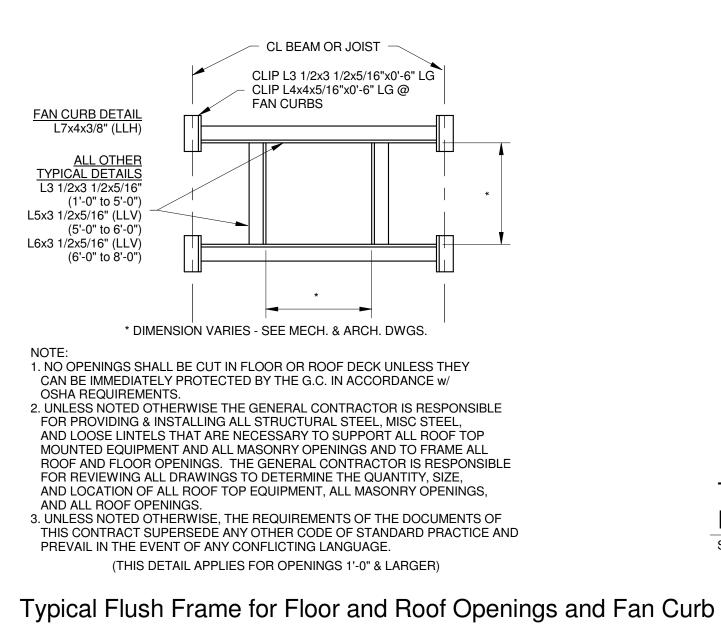




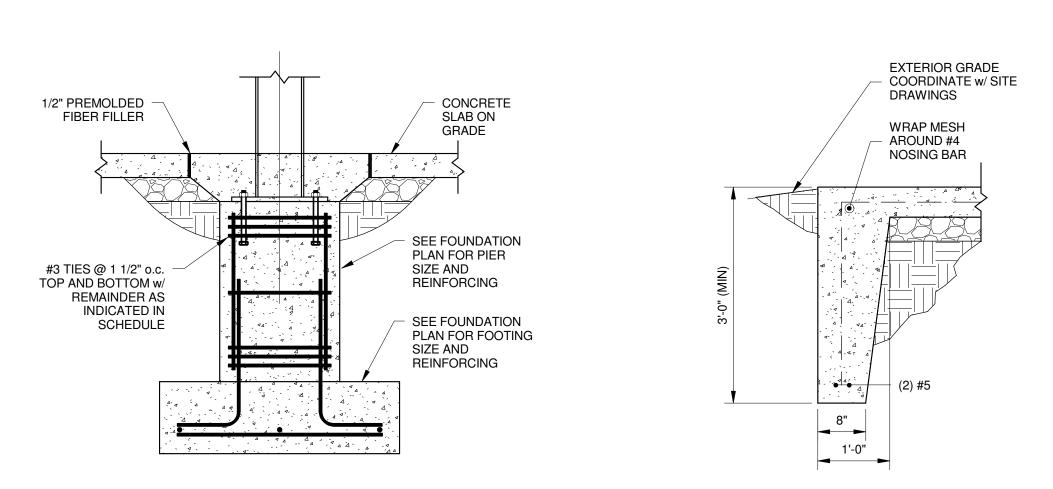


A CONCENTRATED LOAD IS PLACED ON THE JOIST 4" OR MORE AWAY FROM A PANEL POINT.

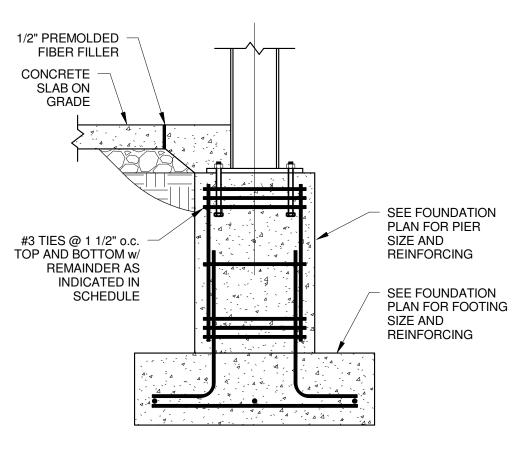
### **Typical Joist Reinforcing Detail** SCALE: 3/4" = 1'-0"



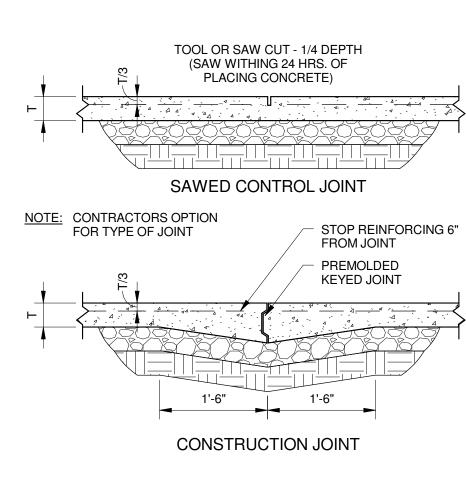
Support SCALE: 3/4" = 1'-0"



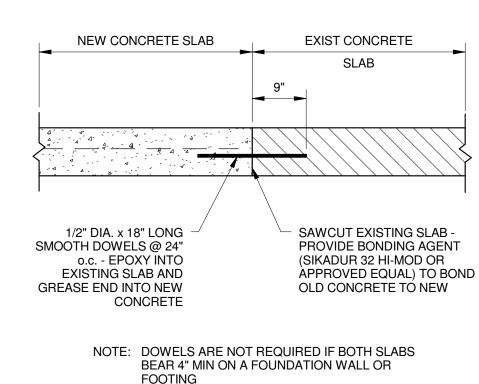




Typical Pier Detail At Exterior SCALE: 3/4" = 1'-0"



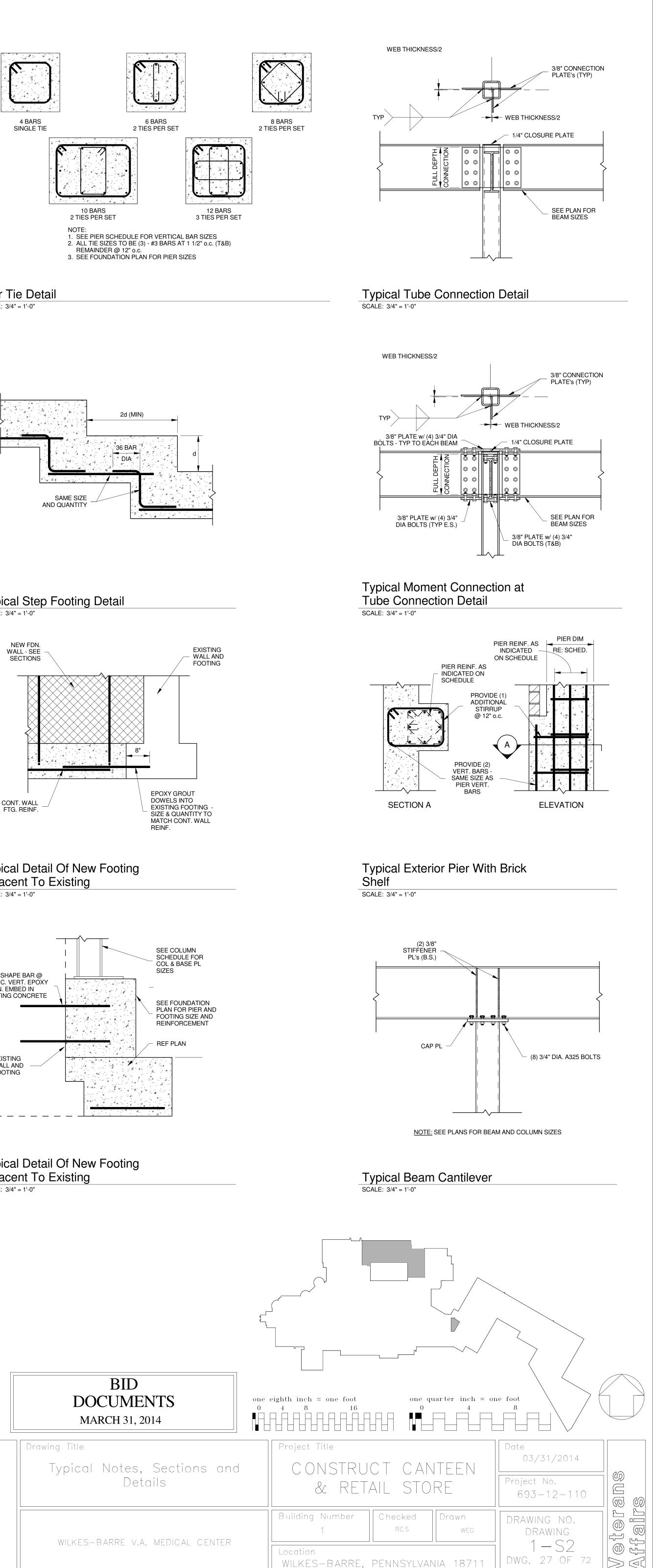
### Typical Crack Control Joints SCALE: 3/4" = 1'-0"



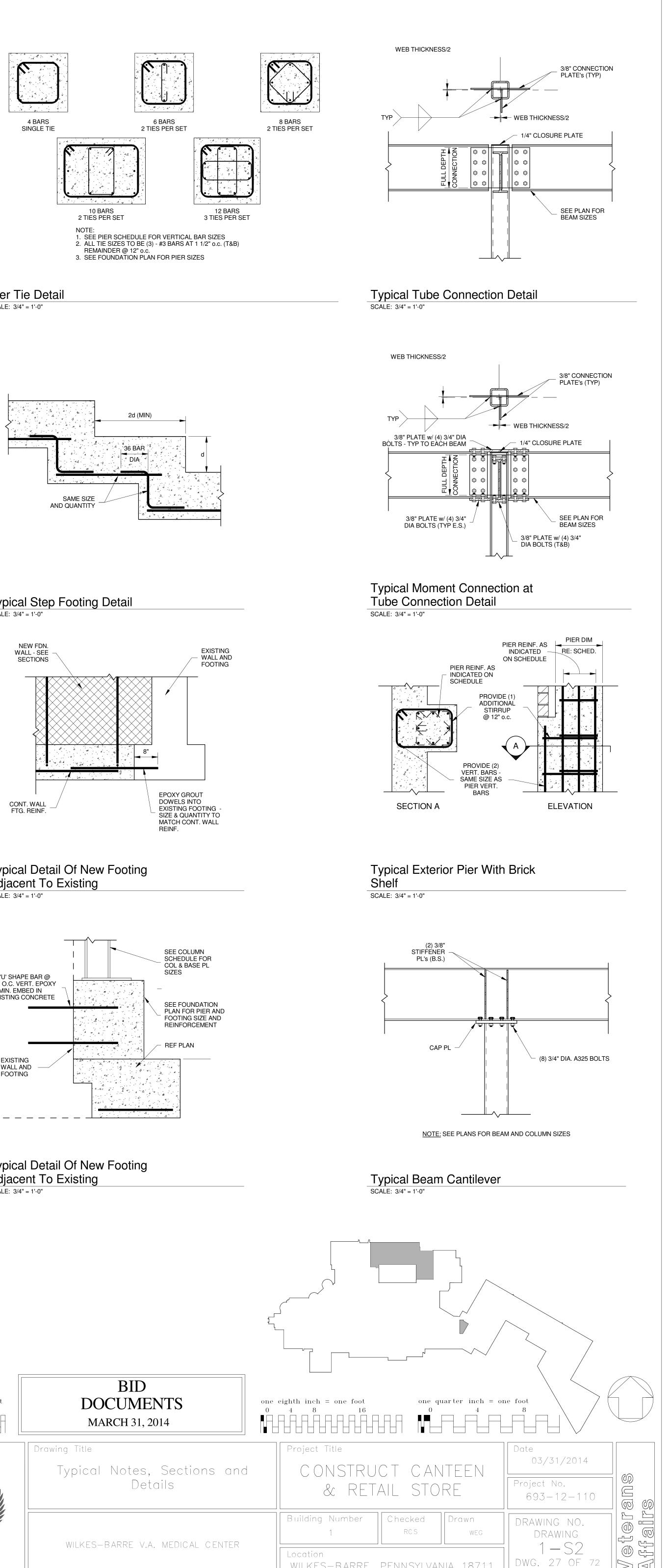
Typical Detail Of New To Existing Slab SCALE: 3/4" = 1'-0"

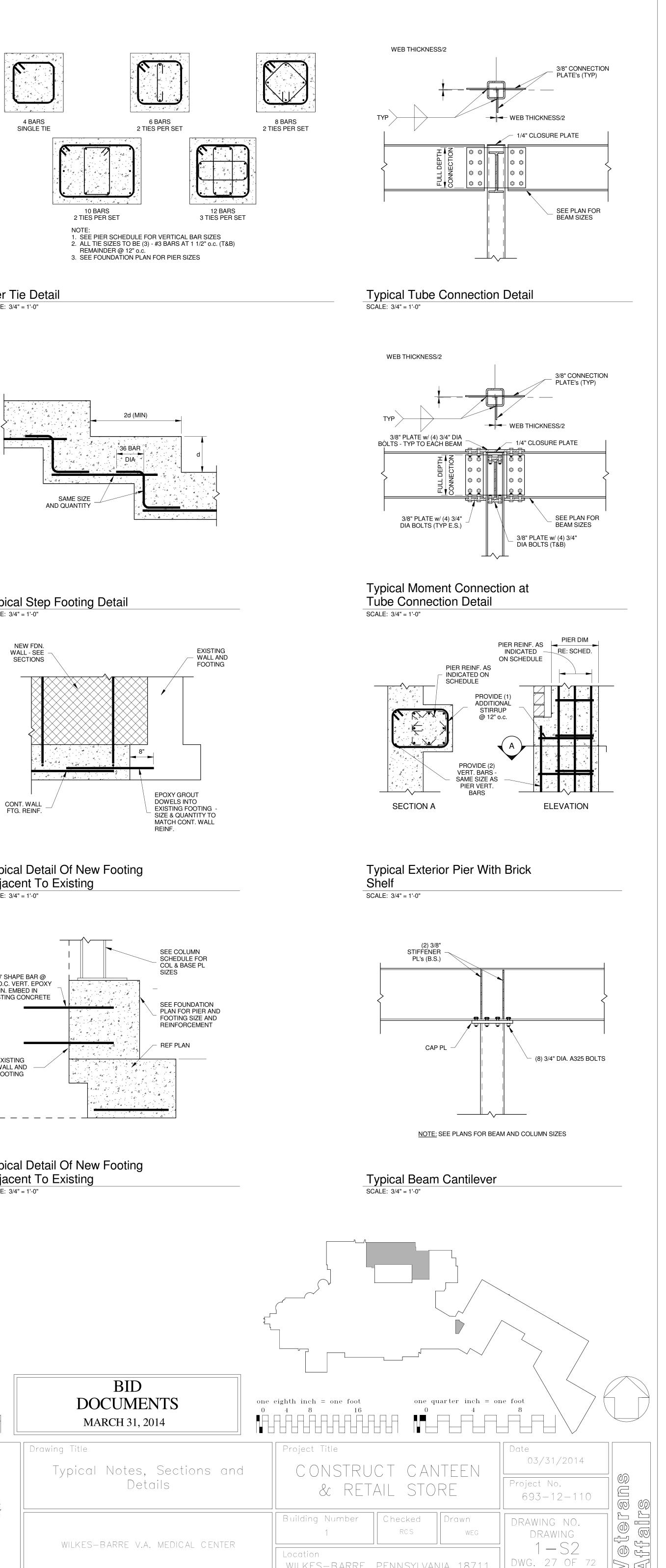


Typical Frost Wall SCALE: 3/4" = 1'-0"

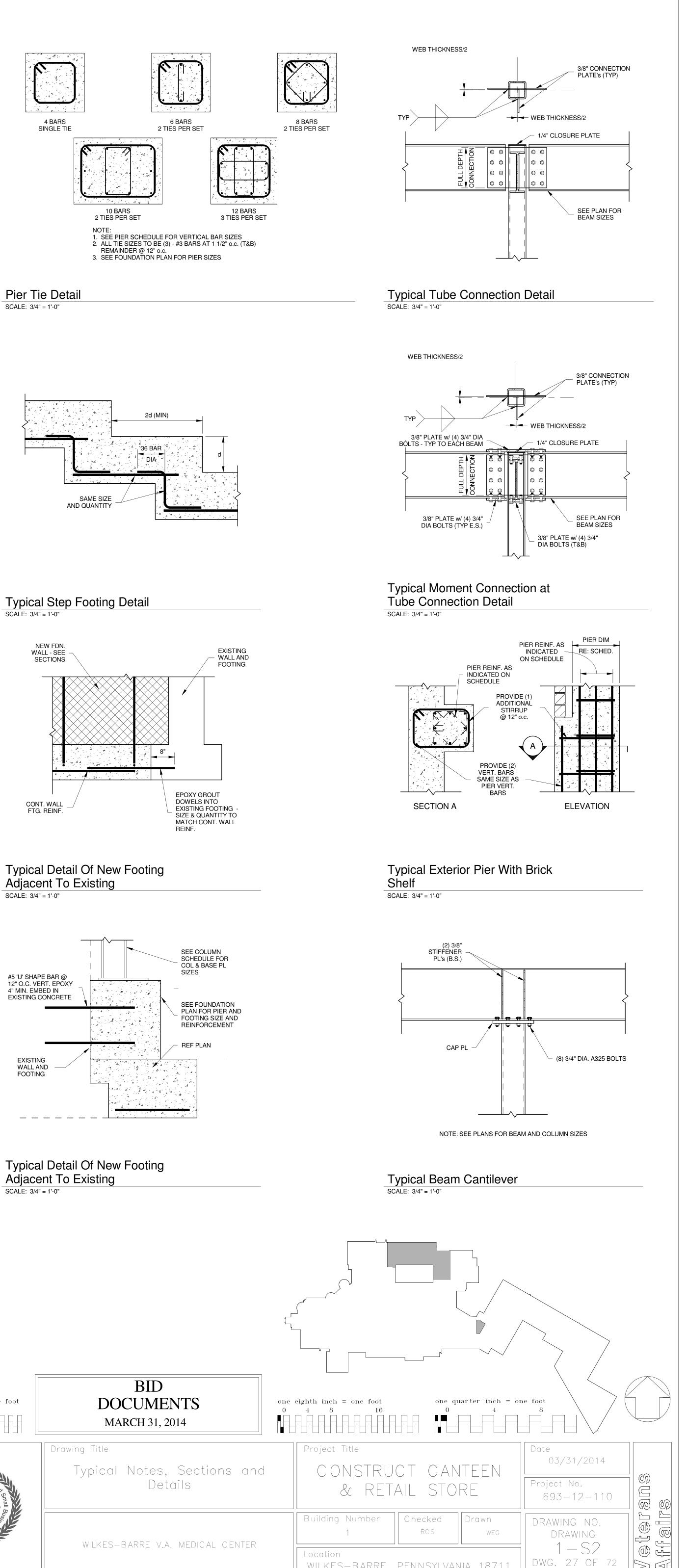






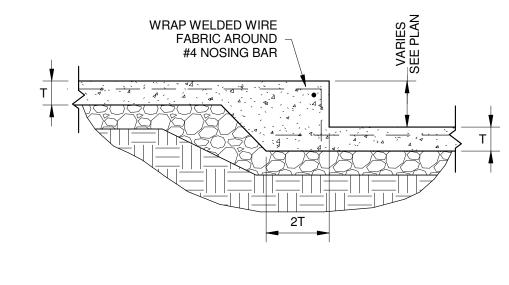


# Adjacent To Existing

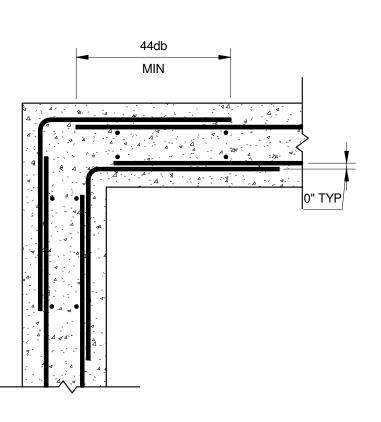


# three thirtyseconds inch = one foot

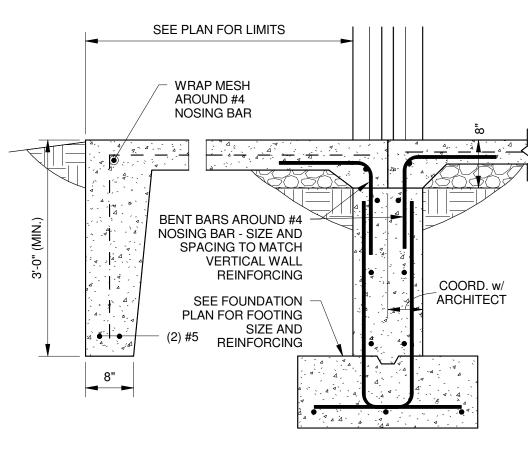




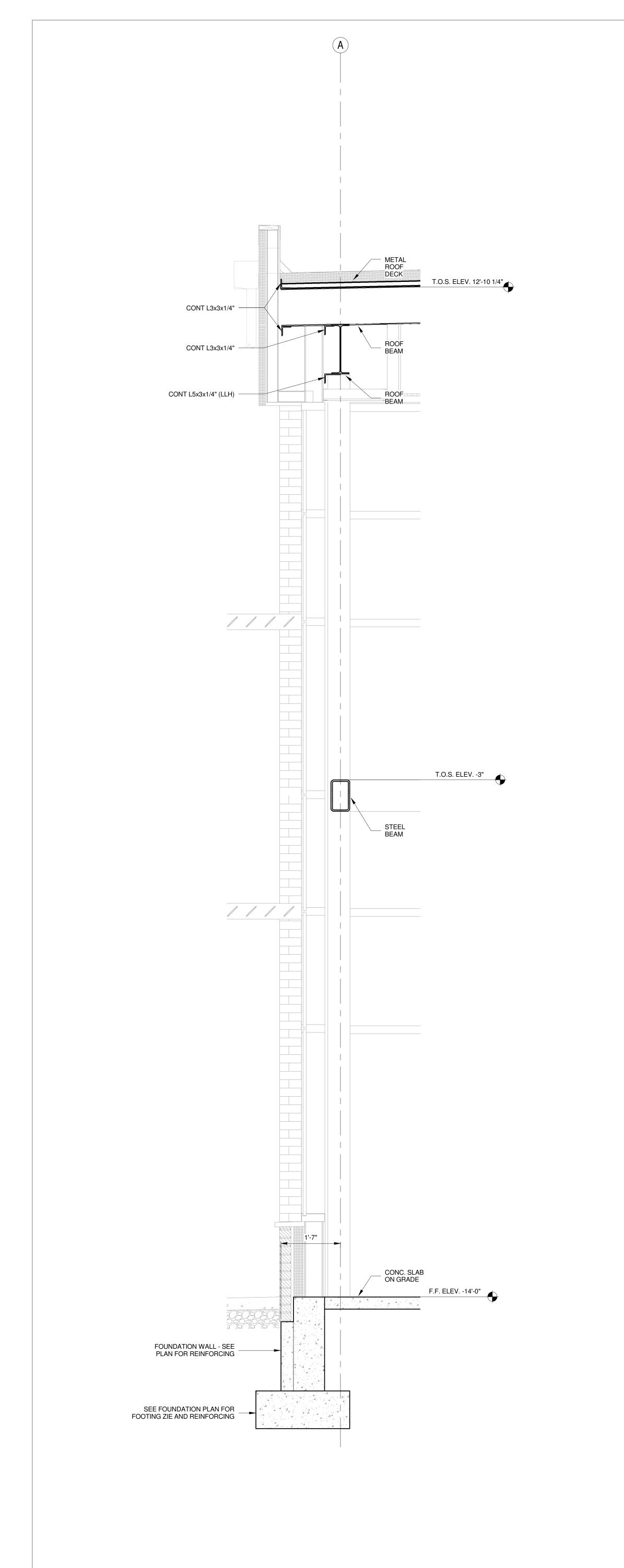
Typical Depressed Slab Detail SCALE: 3/4" = 1'-0"



### **Typical Reinforcing Around** Corner SCALE: 3/4" = 1'-0"

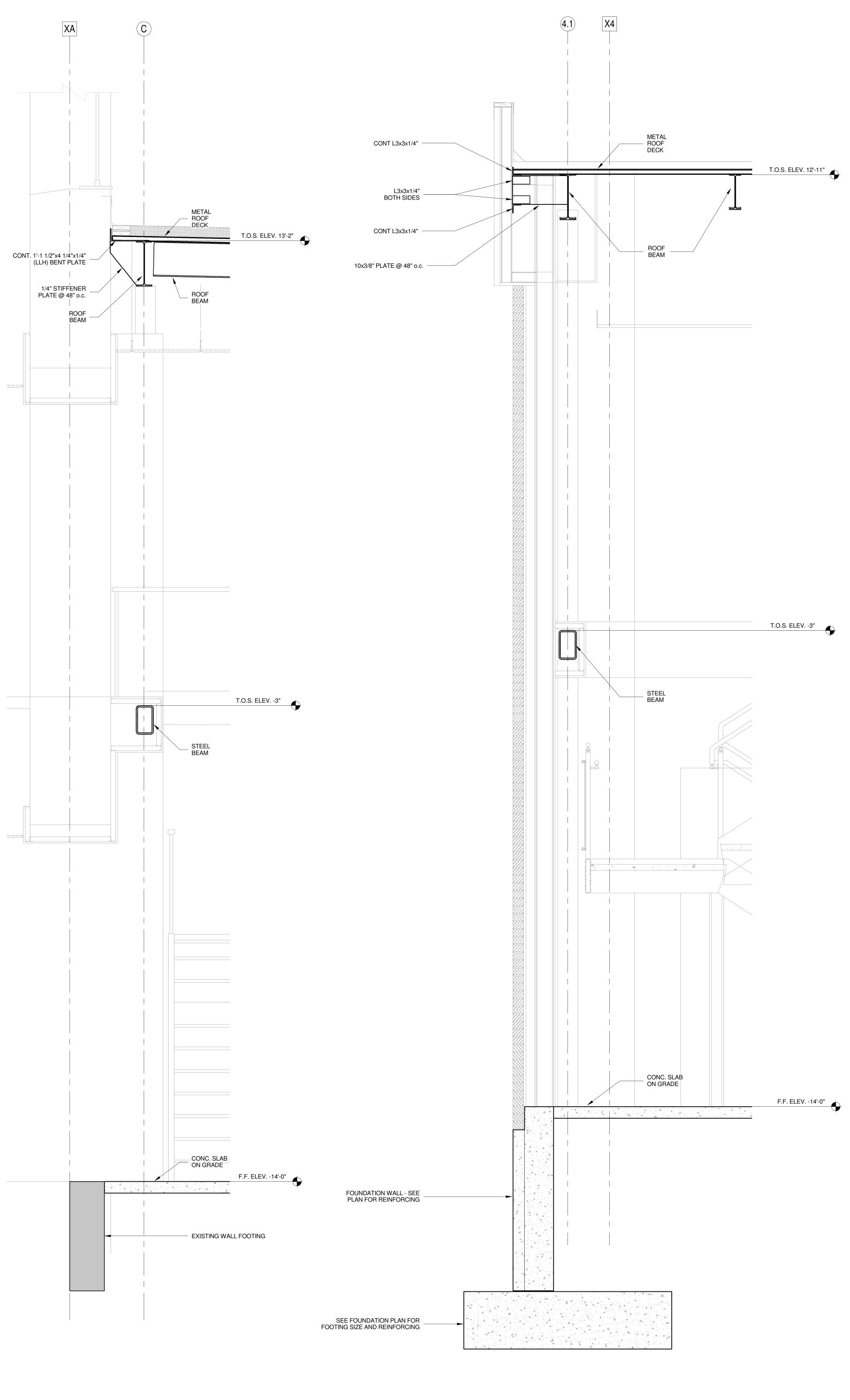


Typical Exterior Wall At Door Detail SCALE: 3/4" = 1'-0"

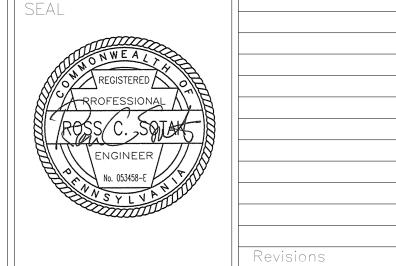


2 Wall Section 1-S3 SCALE: 3/4" = 1'-0"

ENGINEER



3 Wall Section 1-S3 SCALE: 3/4" = 1'-0"

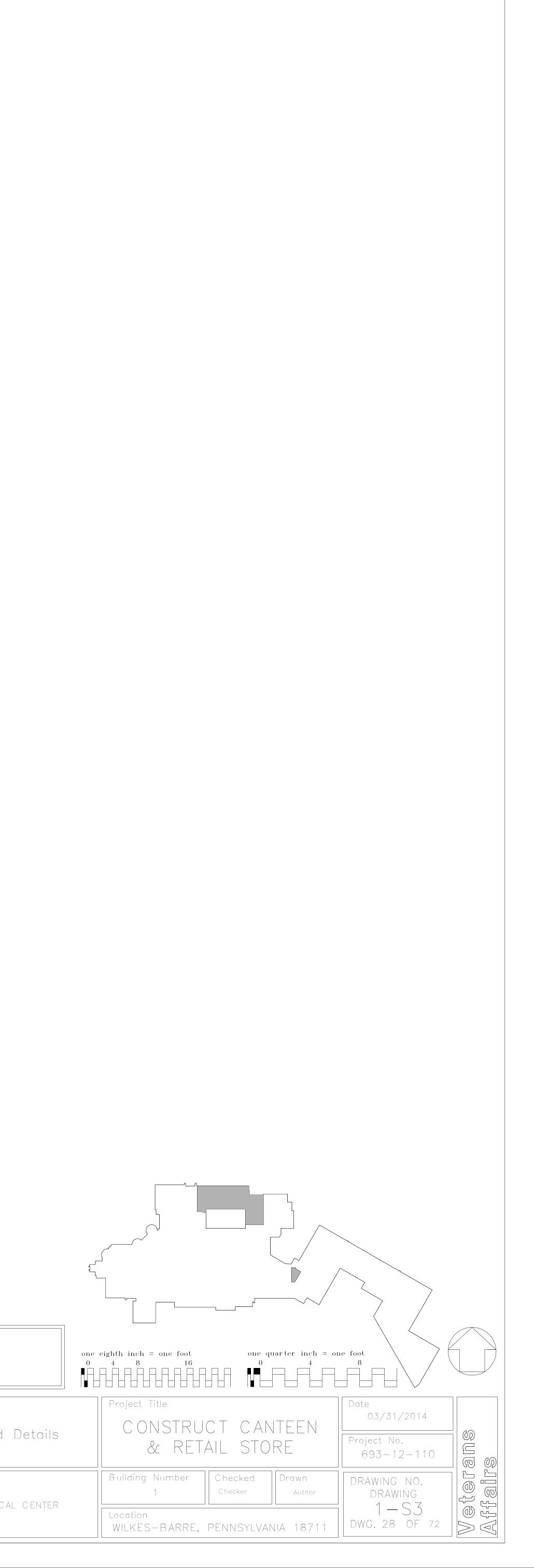


Date

BARRY ISETT & ASSOCIATES, INC. Multidiscipline Engineers & Consultants Allentown, PA 610.398.0904 Phoenixville, PA 610.935.2175 Forty Fort, PA 570.285.8200 Hazleton, PA570.455.2999Phillipsburg, NJ908.454.9500 www.barryisett.com







### ABBREVIATIONS

AÁV ACC ACCH ACCU ACU ACD ACD ACD ACD ACD AFF AFMD AFF AFMD AFW AHU AMP APD ARI	AIR COOLED CONDENSER AIR COOLED CHILLER AIR-COOLED CONDENSING UNIT AIR CONDITIONING UNIT AUTOMATIC CONTROL DAMPER,MODULATING AUTOMATIC CONTROL DAMPER,TWO POSITION ACCESS DOOR ABOVE FINISHED FLOOR AIR FLOW MEASURING DEVICE AIR FOIL WHEEL (FAN) AIR-HANDLING UNIT AMPERGE ACCESS PANEL AIR PRESSURE DROP AIR CONDITIONING AND REFRIGERATION INSTITUTE AIR SEPARATOR	CH CHP CHW CHR CHS CI CM CM CM CO CO CO CO CO CO CO CO CO CO CO CO CO
BD BDR BFP BFT BG BHP BHW BHX BHW BHX BIW BR BT BTC BTU	BOILER BUTTERFLY DAMPER BACKDRAFT DAMPER BASE BOARD RADIATOR BACKFLOW PREVENTER BOILER PLANT FIRE TUBE BOTTOM GRILLE BRAKE HORSEPOWER HOT WATER HEATING BOILER BOILER BLOWDOWN HEAT EXCHANGER BACKWARD INCLINED WHEEL (FAN) BOTTOM REGISTER BLOWOFF TANK BLOWOFF TANK CONTROL VALVE BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	CWS D-1 D-2 D-3 DB Db DD-1 DD-2 DDC DEG DF
CC CCD CD-1 CD-2 CENT CFH CFM CFT CFP	CENTIGRADE (CELCIUS) COOLING COIL COOLING COIL CONDENSATE DRAIN CEILING DIFFUSER CONSTRUCTION DOCUMENTS (SUBMISSION1) CONSTRUCTION DOCUMENTS (SUBMISSION2) CENTRIFICAL CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET CHEMICAL FEED PUMP	DIA DIW DP DPA DPS DX DXCC EA EAT EC ECC ECU EDH

P W R S	CHILLED WATER PUMP CHILLER WATER CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON CARBON MONOXIDE CUBIC METER	EGS E EGT EI EH E EJ E EMD E	XHAUST GRILLE MERGENCY GAS SHUTOFF NTERING GLYCOL TEMPERATUF XHAUST HOOD XPANSION JOINT ND OF MAIN DRIP (STEAM) NTERING
I/S 2 MP P	CUBIC METER PER SECOND CLEAN OUT CARBON DIOXODE COMPRESSOR UNIT COEFFICIENT OF PERFORMANCE	ER E ERC E ERP E ESP E ET E	XHAUST REGISTER LECTRIC REHEAT COIL LECTRIC RADIANT PANEL XTERNAL STATIC PRESSURE XPANSION TANK
G	CEILING REGISTER CONDENSATE STORAGE TANK CLEAN STEAM GENERATOR COOLING TOWER CONDENSING UNIT		
H /	CABINET UNIT HEATER CONSTANT VOLUME COLD WATER (POTABLE)	F F&T F/SDP	FAHRENHEIT FLOAT AND THERMOSTATIC R COMBINATION FIRE SMOKE
ICC IP IR	COOLING TOWER)	FC	DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE)
'S	CONDENSER WATER SUPPLY (FROM COOLING TOWER)	FCUH	FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ( FAN COIL UNIT HEATING O FORWARD CURVED WHEEL
-1 -2 -3	DAMPER – AUTOMATIC OUTDOOR AIR DAMPER RETURN AIR DAMPER RELIEF AIR DAMPER DECIBELS	FD FD FF FHX	FLOOR DRAIN FIRE DAMPER FINAL FILTER FLUE GAS/FEEDWATER HE EXCHANGER
-1	DRY-BULB TEMPERATURE DESIGN DEVELOPMENT (SUBMISSION1)	FM FOP FOT	FLOW METER FUEL OIL PUMP FUFL OIL TANK
	DESIGN DEVELOPMENT (SUBMISSION2) DIRECT DIGITAL CONTROLS DEGREE	FPS FPTU	FEET PER SECOND FAN POWERED TERMINAL I
<b>۱</b>	DIFFUSER DIAMETER DEIONIZED WATER DEW POINT TEMPERATURE DIFFUSER PLATE	FR FRP FS FSTAT FT	FLOOR REGISTER FIBER REINFORCED POLYE FLOW SWITCH FREEZESTAT FEET
S	DIFFERENTIAL PRESSURE ASSEMBLY DIFFERENTIAL PRESSURE SENSOR DIRECT EXPANSION	FT–LB FTR FV	FOOT-POUND FIN TUBE RADIATION FACE VELOCITY
E E E C E U E	DIRECT EXPANSION COOLING COIL XHAUST AIR NTERING AIR TEMPERATURE VAPORATIVE COOLER NGINEERING CONTROL CENTER VAPORATIVE CONDENSER UNIT LECTRIC DUCT HEATER	GAL GH GPD GPH GPM	GAUGE GALLONS GRAVITY HOOD GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GALVANIZED STEEL

EER ENERGY EFFICIENCY RATIO

FLEXIBLE CONNECTION, EQUIPMENT,

VANED ELBOW (PROVIDE ALL SQUARE OR

RECTANGULAR ELBOWS WITH VANES EVEN IF

VIBRATION, OR SEISMIC

SYMBOL IS MISSING)

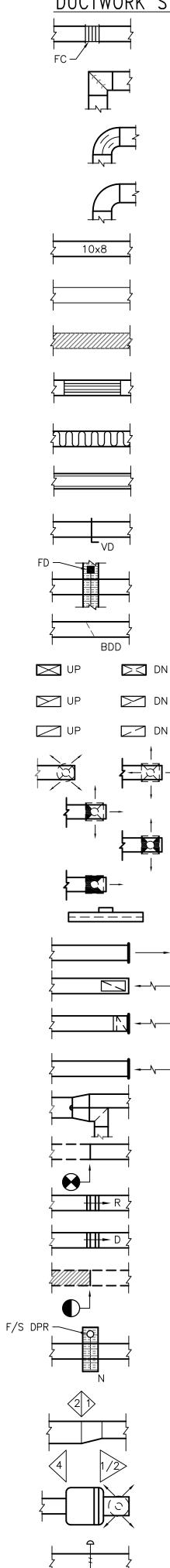
CHILLER

	EGS E EGT E E E E E E E E E E E E E E E E E E E	XHAUST GRILLE MERGENCY GAS SHUTOFF NTERING GLYCOL TEMPERATURE XHAUST HOOD XPANSION JOINT ND OF MAIN DRIP (STEAM) NTERING XHAUST REGISTER LECTRIC REHEAT COIL LECTRIC RADIANT PANEL XTERNAL STATIC PRESSURE XPANSION TANK THYLENE OXIDE LECTRIC UNIT HEATER VAPORATIVE WATER COOLER NTERING WATER TEMPERATURE XISTING	HAC HB HC HD HD	HOT & COLD WAT HOUSEKEEPING AII HOSE BIBB HEATING COIL HEAD HOOD HAND/OFF/AUTOM HEAT PUMP HORSEPOWER HIGH PRESSURE E HIGH PRESSURE F (STEAM CONDENSA HIGH PRESSURE S (STEAM) HEAT RECOVERY E HYDRONIC RADIAN
F F F F F F F F F F F F F F F	F&T F/SDP FC FCU FCUC FCUC FCUH	FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY FAN COIL UNIT HEATING ONLY FORWARD CURVED WHEEL (FAN) FLOOR DRAIN FIRE DAMPER FINAL FILTER	HTM HUM HVU HWC HWHC HWP HWR HWR HWS	HOT WATER HEATI
	FOT FOHX FPM FPS FPTU FR FRP FS FSTAT FT FT FT FT SA GAL GAL GAL GAL GAL GAL	FLOW METER FUEL OIL PUMP FUEL OIL TANK FUEL OIL HEAT EXCHANGER FEET PER MINUTE FEET PER SECOND FAN POWERED TERMINAL UNIT FLOOR REGISTER FIBER REINFORCED POLYESTER FLOW SWITCH FREEZESTAT FEET FOOT-POUND FIN TUBE RADIATION FACE VELOCITY GAUGE GALLONS	IN WC IN WG IN-LB IPLV IRH IS IU IV	INPUT/OUTPUT INDOOR AIR QUALI INVERTED BUCKET IN-LINE CENTRIFU INTENSIVE CARE U INSIDE DIAMETER INTEGRAL FACE AN INCHES INCHES OF MERCI INCH WATER COLU INCH WATER COLU INCH WATER GAUC INCH -POUND INTERGRATED PART INTRARED HEATER INSECT SCREEN INDUCTION UNIT INLET VANES

EF EXHAUST FAN

### DUCTWORK SYMBOLS

CG CEILING GRILLE



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	STMBUL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS)
	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	LOUVER (LOUVER SPECIFIED IN ARCHITECTURAL SECTION.)
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT WITH SOUND LINING
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	BACK DRAFT DAMPER
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN DUCT (UP & DOWN)
-	ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
	SQUARE 3-WAY CEILING DIFFUSERS
	SQUARE 2-WAY CEILING DIFFUSERS
	SQUARE 1-WAY CEILING DIFFUSERS
	LINEAR SLOT DIFFUSER
-	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
_	EXHAUST OR RETURN CEILING REGISTER OR GRILLE
_	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
_	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)

RILLE (WALL TYPE)

VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF

CONNECT NEW DUCT TO EXISTING DUCT

INCLINED RISE, IN DIRECTION OF AIR FLOW

INCLINED DROP, IN DIRECTION OF AIR FLOW LIMIT OF DEMOLITION

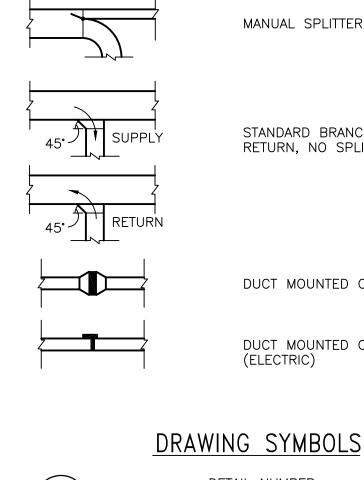
COMBINATION FIRE/SMOKE DAMPER

### POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERSCRIPT INDICATES NEGATIVE PRESSURE.

AUTOMATIC CONTROL DAMPER MODULATING

AUTOMATIC CONTROL DAMPER TWO POSITION

STAINLESS STEEL DUCT



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26-SF 3

∖H4 / '

# \_\_\_\_\_ DETAIL NUMBER \_\_\_\_ DRAWING NUMBER WHERE DRAWN

\_\_\_\_\_ SECTION LETTER DRAWING NUMBER W

- BUILDING NO. WHERE — EQUIPMENT ABBREVIA ------ SUPPLY FAN NO. 3 —— TYPICAL UNIT NO.

- BUILDING NO. WHERE ——— ITEM (TERMINAL UNIT 26-TU-I-I-

### PIPING SYMBOLS

HPS	F
— — — HPR— — — —	F
MPS	Ν
— — — — MPR— — — —	N
LPS	L
— — — LPR— — — —	L
PC	C
HWS	F
— — — — HWR— — — —	ŀ
CHS	C
— — — — GHR— — — —	G
	S
— — — — SWR— — — —	S
RL	F
RS	F
RHG	F
CWS	C
<u> </u>	C
CHS	C
— — — — CHR— — — —	C
GCS	C
— — — GCR— — — —	C
MW	N
U	L
V GRS	\ (
GRR	C
x	E

HIGH PRESSURE STEAM (60 PSIG AND ABOVE) HIGH PRESSURE STEAM CONDENSATE RETURN MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG) MEDIUM PRESSURE STEAM CONDENSATE RETURN LOW PRESSURE STEAM (15 PSIG AND BELOW) LOW PRESSURE STEAM CONDENSATE RETURN CONDENSATE PUMP DISCHARGE HOT WATER HEATING SUPPLY HOT WATER HEATING RETURN GLYCOL-WATER HEATING SUPPLY GLYCOL-WATER HEATING RETURN SOLAR WATER SUPPLY SOLAR WATER RETURN REFRIGERANT LIQUID REFRIGERANT SUCTION REFRIGERANT HOT GAS CONDENSER WATER SUPPLY (FROM TOWER) CONDENSER WATER RETURN (TO TOWER) CHILLED WATER SUPPLY CHILLED WATER RETURN CHILLED GLYCOL-WATER SUPPLY CHILLED GLYCOL-WATER RETURN MAKE-UP WATER DRAIN LINE VENT LINE GLYCOL-WATER RUN AROUND SUPPLY

- -\_\_\_\_\_

H HUMIDIFER H&CW HOT & COLD WATER HAC HOUSEKEEPING AID CLOSET HB HOSE BIBB HC HEATING COIL HD HEAD	kg KILOGRAM kg/HR KILOGRAM PER HOUR kPa KILOPASCAL kW KILOWATT kWh KILOWATT HOUR L LITER	NO NORMALLY OPEN NOAA NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION NOM NOMINAL NPLV NON—STANDARD PART LOAD VALUE NPSH NET POSITIVE SUCTION HEAD	SA SUPPLY AIR SAD SOUND ATTENUATING DEVICE SAT SUPPLY AIR TEMPERATURE SC SHADING COEFFICIENT SCFM STANDARD CUBIC FEET PER MINUTE
HD HOOD HOA HAND/OFF/AUTOMATIC HP HEAT PUMP HP HORSEPOWER HPDT HIGH PRESSURE DRIP TRAP HPR HIGH PRESSURE RETURN (STEAM CONDENSATE)	L/hLITERS PER HOUR (OR LITERS/HOUR)L/mLITERS PER MINUTE (OR LITERS/MINUTE)L/sLITERS PER SECOND (OR LITERS/SECOND)LATLEAVING AIR TEMPERATURELBS/HRPOUNDS PER HOURLFLINEAR FOOT (FEET)LGTLEAVING GLYCOL TEMPERATURE	NTS NOT TO SCALE OA OUTSIDE AIR OAG OUTSIDE AIR GRILLE OAI OUTSIDE AIR INTAKE OD OUTSIDE DIAMETER OFM OIL FLOWMETER OR OPERATING ROOM	SCISPINAL CODE INJURYSCRSILICON CONTROLLED RECTIFIERSDSMOKE DETECTORSDSUPPLY AIR DIFFUSERSD-1SCHEMATIC DESIGN (SUBMISSION1)SD-2SCHEMATIC DESIGN (SUBMISSION2)SDPRSMOKE DAMPERSDRSMOKE DAMPER (RETURN)
HPS HIGH PRESSURE SUPPLY (STEAM) HRC HEAT RECOVERY COIL HRD HEAT RECOVERY DEVICE HRP HYDRONIC RADIANT (CEILING) PANEL HRW HEAT RECOVERY WHEEL HSTAT HUMIDISTAT HTM HUMIDIFIER TERMINAL	LATENT HEAT LPG LIQUID PROPANE GAS LPR LOW PRESSURE RETURN (STEAM CONDENSATI LPRC LOW PRESSURE STEAM RETURN (CLEAN) LLHX LIQUID TO LIQUID HEAT EXCHANGER LPS LOW PRESSURE STEAM LPSC LOW PRESSURE STEAM (CLEAN) LSD LINEAR SLOT DIFFUSER	P PUMP PA PASCAL E) PC PUMPED CONDENSATE PCF POUNDS PER CUBIC FOOT (FEET) PD PRESSURE DROP PEF PROPELLER (TYPE) EXHAUST FAN PF PRE-FILTER PG PRESSURE GAGE	SDSSMOKE DAMPER (SUPPLY)SENSENSIBLE HEATSFSUPPLY FANSGSUPPLY AIR GRILLESHSTEAM HUMIDIFIERSHCSTEAM HEATING COILSISQUARE INCHESSPSTATIC PRESSURE
HUM HUMIDIFIER UNIT MOUNTED HVU HEATING AND VENTILATING UNIT HW HOT WATER HWC HOT WATER COIL HWHC HOT WATER HEATING COIL HWP HEATING HOT WATER PUMP HWR HEATING HOT WATER RETURN HWS HEATING HOT WATER SUPPLY HWUH HOT WATER UNIT HEATER	LTCP LOCAL TEMPERATURE CONTROL PANEL LVG LEAVING LVR LOUVER LWT LEAVING WATER TEMPERATURE M METER, SI UNIT M/s METERS PER SECOND (OR METERS/SECOND) MA MIXED AIR	PGWPROPYLENEGLYCOL-WATER (SOLUTION)PHCPREHEATCOILPPMPARTSPERPRSPRESSUREREGULATING (VALVE)PRVPRESSUREREGULATING VALVEPSIPOUNDSPERSQUAREPSIAPOUNDSPERSQUAREPSIGPOUNDSPERSQUAREPSIGPOUNDSPERSQUAREPSIPOUNDSPERSQUAREPSIGPOUNDSPERSQUAREPSSPRIMARYSECONDARYSYSTEM	SP GRSPECIFICGRAVITYSPDSUPPLYPROCESSAND DISTRIBUTIONSPRVSTEAMPRESSUREREDUCINGVALVESPSSTATICPRESSURESENSORSQFTSQUAREFOOT (FEET)SRSUPPLYAIRREGISTERSSSTAINLESSSTEELSSHXSTEAMTOSTEAMSSRSOLIDSEPARATOR
HVD HOISTWAY VENT DAMPER HX HEAT EXCHANGER HZ HERTZ I/O INPUT/OUTPUT IAQ INDOOR AIR QUALITY IBT INVERTED BUCKET TRAP ICF IN-LINE CENTRIFUGAL FAN ICU INTENSIVE CARE UNIT	MAT MIXED AIR TEMPERATURE MAU MAKE-UP AIR UNIT MAV MANUAL AIR VENT MAX MAXIMUM MB MIXING BOX MBH 1000 BTUH MCA MINIMUM BRANCH CIRCUIT AMPACITY MER MECHANICAL EQUIPMENT ROOM MERV MINIMUM EFFICIENCY REPORTING	PSV PRESSURE SAFETY VALVE PTAC PACKAGED TERMINAL AIR CONDITIONER R/E RETURN OR EXHAUST RA RETURN AIR RAD REFRIGERANT AIR DRYER RAF RADIO FREQUENCY RAHX ROTARY AIR HEAT EXCHANGER RAT RETURN AIR TEMPERATURE	STSTEAM TRAPSUHSTEAM UNIT HEATERSVSTEAM PRESSURE REDUCING VALVESVSSTEAM VENT SILENCERSWHXSTEAM TO WATER HEAT EXCHANGERT& PCV TEMPERATURE AND PRESSURE CONTROL VALVE
ID INSIDE DIAMETER IFB INTEGRAL FACE AND BYPASS IN INCHES IN HG INCHES OF MERCURY IN WC INCH WATER COLUMN IN WG INCH WATER GAUGE IN-LB INCH-POUND IPLV INTERGRATED PART LOAD VALUE IRH INTRARED HEATER IS INSECT SCREEN	VALUE MH MANHOLE MHP MOTOR HORSEPOWER MIN MINIMUM MM MILLIMETER MOV MOTOR OPERATED VALVE MPR MEDIUM PRESSURE RETURN	RCCH REMOTE CONDENSER CHILLER RCU RECIPROCATING CHILLER UNIT RD REFRIGERANT DISCHARGE RDS ROOM DATA SHEETS REA RELIEF AIR RF RETURN FAN RG RETURN GRILLE RH RELATIVE HUMIDITY RHC REHEAT COIL RHG REFRIGERANT HOT GAS	TABTESTING, ADJUSTING, BALANCETDTEMPERATURE DIFFERENCETDHTOTAL DYNAMIC HEADTDSTOTAL DISSOLVED SOLIDSTGTRANSFER GRILLETPTRAPTRTOP REGISTERTSPTOTAL STATIC PRESSURETSTATTHERMOSTATTUTERMINAL UNIT
IU INDUCTION UNIT IV INLET VANES J INTENTIALLY LEFT BLANK	MTD MEAN TEMPERATURE DIFFERENCE MVD MANUAL VOLUME DAMPER MZ MULTI-ZONE NA NOT APPLICABLE NC NOISE CRITERIA NC NORMALLY CLOSED NG NATURAL GAS NGFM NATURAL GAS FLOWMETER	RL REFRIGERANT LIQUID LINE RLA RUN LOAD AMPERE RO REVERSE OSMOSIS RPM REVOLUTIONS PER MINUTE RR RETURN REGISTER RS REFRIGERANT SUCTION RTU ROOF TOP UNIT RV RELIEF VALVE	TWU THRU-WALL UNIT UC UNDER CUT UC UNIT COOLER UH UNIT HEATER UL UNDERWRITERS LABORATORY URV UPBLAST UNIT VENTILATOR
	AIR -	TERMINAL SYMBOLS	CONT
MANUAL SPLITTER DAMPER		TERMINAL UNIT WITH REHEAT COIL	T   ROOM THERMOST     M   ROOM HUMIDISTA
	МВ	DOUBLE DUCT MIXING BOX.	TT TEMPERATURE TR
STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)		FAN POWERED VARIABLE VOLUME TERMINAL UNIT WITH HEATING COIL.	TT TEMPERATURE TR MT MOISTURE (HUMII
DUCT MOUNTED COIL (HOT WATER	er or steam coil)	ALVE SYMBOLS gate valve – threaded/flanged	(SPS) STATIC PRESSURI
DUCT MOUNTED COIL (ELECTRIC)		GLOBE VALVE – THREADED/FLANGED GATE VALVE WITH 3/4" HOSE ADAPTER CHECK VALVE	IT CURRENT TRANSM
		WYE STRAINER (WITH BALL VALVE & HOSE CONN	
AWING SYMBOLS		HOSE CONNECTOR FLEXIBLE CONNECTION	PDT PRESSURE DIFFE

ANGLE GLOBE VALVE

MODULATING CONTROL VALVE

TWO POSITION CONTROL VALVE

PRESSURE REGULATING VALVE

AUTOMATIC BALANCING CONTROL VALVE

GATE VALVE WITH GLOBE-VALVED BYPASS

CONTROL VALVE (CV) – FLOAT-OPERATED

PRESSURE SAFETY VALVE

WATER BALANCE DEVICE

CIRCUIT SETTER VALVE

PLUG VALVE

MODULATING CONTROL BUTTERFLY VALVE

THREE-WAY MODULATING CONTROL VALVE

THREE-WAY TWO POSITION CONTROL VALVE

BUTTERFLY VALVE

BALL VALVE

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——XX—

HERE SHOWN
E EQUIPMENT IS LOCATED. TION (SUPPLY FAN) IN BUILDING NO. 26
E EQUIPMENT IS LOCATED
SHOWN)
INAL UNIT NO. 1)
DLER UNIT NO. 1
1 5

PRESSURE REDUCING VALVE (PRV) \_\_\_\_()\_ WATER LEVEL CONTROLLER FLOW METER

GENERAL NOTES:

- SOME WORK ON THIS PROJECT IS REQUIRED TO BE COMPLETED DURING OFF HOURS, COORDINATE ALL WORK WITH THE VA PROJECT MANAGER.
- MECHANICAL CONTRACTOR TO PROVIDE A WALL MOUNTED ROOM PRESSURIZATION MONITOR AND CONTROLLER AND ALL RELATED SENSORS AND WIRING FOR NEGATIVE AIR MONITORING DURING CONSTRUCTION, COORDINATE REQUIREMENTS AND INSTALLATION WITH ICRA PLAN AND VA PROJECT MANAGER.

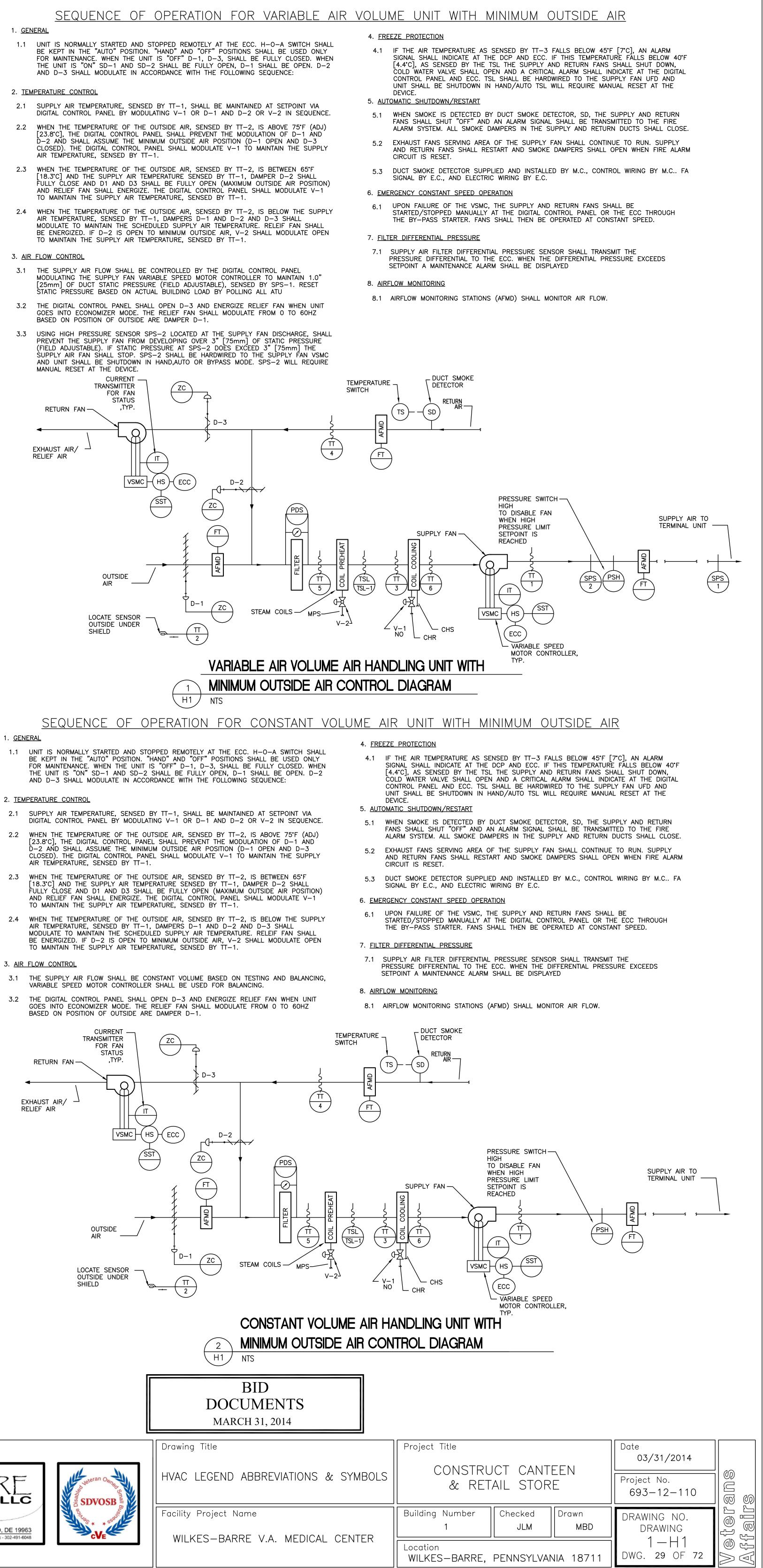
GLYCOL-WATER RUN AROUND RETURN EXISTING PIPE TO BE REMOVED



AND D-3 SHALL MODULATE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:

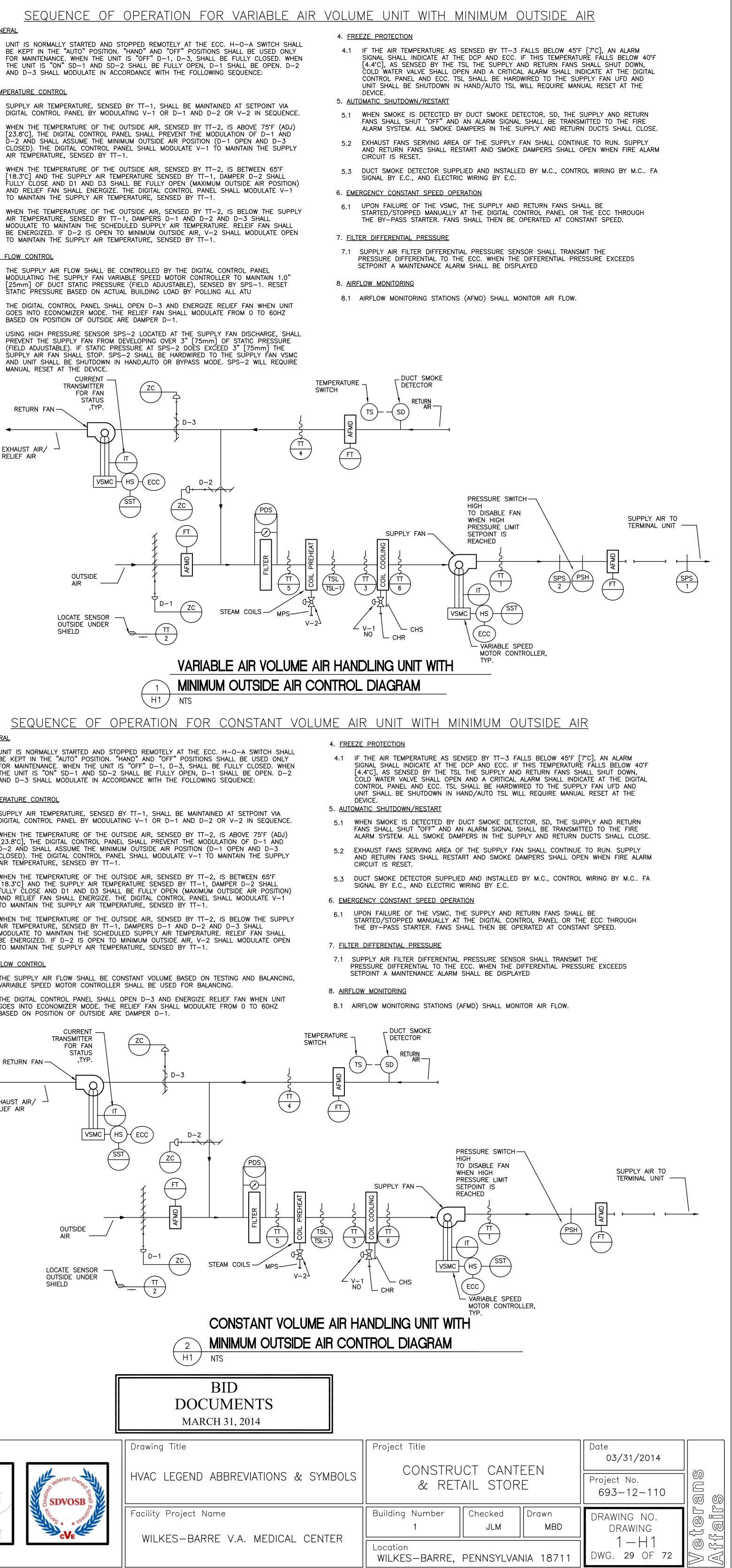
### 2. <u>TEMPERATURE CONTROL</u>

- $\overline{D}$ -2 and shall assume the minimum outside air position (D-1 open and D-3 AIR TEMPERATURE, SENSED BY TT-1.
- 2.3 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS BETWEEN 65'F [18.3°C] AND THE SUPPLY AIR TEMPERATURE SENSED BY TT-1, DAMPER D-2 SHALL TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
- 2.4 WHEN THE TEMPERATURE OF THE OUTSIDE AIR. SENSED BY TT-2, IS BELOW THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1, DAMPERS D-1 AND D-2 AND D-3 SHALL TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
- 3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL [25mm] OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE), SENSED BY SPS-1. RESET STATIC PRESSURE BASED ON ACTUAL BUILDING LOAD BY POLLING ALL ATU
- 3.2 THE DIGITAL CONTROL PANEL SHALL OPEN D-3 AND ENERGIZE RELIEF FAN WHEN UNIT GOES INTO ECONOMIZER MODE. THE RELIEF FAN SHALL MODULATE FROM 0 TO 60HZ
- 3.3 USING HIGH PRESSURE SENSOR SPS-2 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-2 DOES EXCEED 3" [75mm] THE

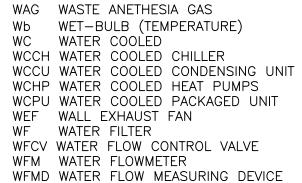


- 1. <u>GENERAL</u> 1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1, D-3, SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" SD-1 AND SD-2 SHALL BE FULLY OPEN, D-1 SHALL BE OPEN. D-2
- 2. <u>TEMPERATURE CONTROL</u>
- SUPPLY AIR TEMPERATURE, SENSED BY TT-1, SHALL BE MAINTAINED AT SETPOINT VIA 2.1 DIGITAL CONTROL PANEL BY MODULATING V-1 OR D-1 AND D-2 OR V-2 IN SEQUENCE. 2.2
- [23.8°C], THE DIGITAL CONTROL PANEL SHALL PREVENT THE MODULATION OF D-1 AND D-2 AND SHALL ASSUME THE MINIMUM OUTSIDE AIR POSITION (D-1 OPEN AND D-3) CLOSED). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
- 2.3 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS BETWEEN 65'F [18.3°C] AND THE SUPPLY AIR TEMPERATURE SENSED BY TT-1, DAMPER D-2 SHALL AND RELIEF FAN SHALL ENERGIZE. THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
- 2.4 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS BELOW THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1, DAMPERS D-1 AND D-2 AND D-3 SHALL MODULATE TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE. RELEIF FAN SHALL BE ENERGIZED. IF D-2 IS OPEN TO MINIMUM OUTSIDE AIR, V-2 SHALL MODULATE OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.

VARIABLE SPEED MOTOR CONTROLLER SHALL BE USED FOR BALANCING. 3.2 THE DIGITAL CONTROL PANEL SHALL OPEN D-3 AND ENERGIZE RELIEF FAN WHEN UNIT GOES INTO ECONOMIZER MODE. THE RELIEF FAN SHALL MODULATE FROM 0 TO 60HZ



VFD VARIABLE FREQUENCY DRIVE VHA VETERANS HEALTH ADMINISTRATION VI VIBRATION ISOLATOR VIV VARIABLE INLET VANES VP VACUUM PUMP VPS VARIABLE PRIMARY SYSTEM VR VACUUM (STEAM CONDENSATE) RETURN VSD VARIABLE SPEED DRIVE VUH VERTICAL UNIT HEATER



V VALVE

W WATTS

VAF VANE—AXIAL FAN

VAV VARIABLE AIR VOLUME

WCPU WATER COOLED PACKAGED UNIT WFMD WATER FLOW MEASURING DEVICE WG WATER GAGE

WPD WATER SIDE PRESSURE DROP YR YEAR

VD VOLUME DAMPER (MANUAL OPPOSED BLADE)

### ITROLS SYMBOLS STAT/TRANSMITTER - WALL MOUNT

STAT (MOISTURE)/TRANSMITTER - WALL MOUNT

### TRANSMITTER

TRANSMITTER, AVERAGING ELEMENT

### IMIDITY) TRANSMITTER

ANSMITTER

### URE SENSOR

ITTER

NSMITTER

### TRANSMITTER

### FERENTIAL TRANSMITTER

PRESSURE DIFFERENTIAL SWITCH

### HAND SWITCH (HAND-OFF-AUTO SWITCH)

VALVE OR DAMPER POSITION CONTROLLER

### LOCAL RECORDING TIME CLOCK (RUNTIME)

TEMPERATURE SWITCH, LOW (FREEZESTAT)

TEMPERATURE SWITCH, HIGH (FREEZESTAT)

### LEVEL CONTROLLER

LEVEL TRANSMITTER

### PRESSURE SWITCH HIGH

### PRESSURE SWITCH LOW

ELECTRONIC TO PNEUMATIC TRANSDUCER

# CARBON DIOXIDE TRANSMITTER

CARBON MONOXIDE TRANSMITTER

OCCUPANCY SENSOR

### LOCAL TEMPERATURE CONTROL PANEL

HVAC CONTROL PANEL

OPERATION

OPERATION

OPERATION

OPERATION

LTCP

HVAC

\_\_\_\_\_

VSMC

(ECC)

(FSH)

M

VARIABLE SPEED MOTOR CONTROLLER INTEGRATE CONTROL POINT ON REMOTE GRAPHICS

### WORKSTATION AT ENERGY CONTROL CENTER

TEMPERATURE CONTROLLER. SEE SEQUENCE OF

### PRESSURE CONTROLLER. SEE SEQUENCE OF

SPEED CONTROLLER. SEE SEQUENCE OF

FLOW CONTROLLER. SEE SEQUENCE OF

## FLOW SWITCH HIGH

# FLOW SWITCH LOW

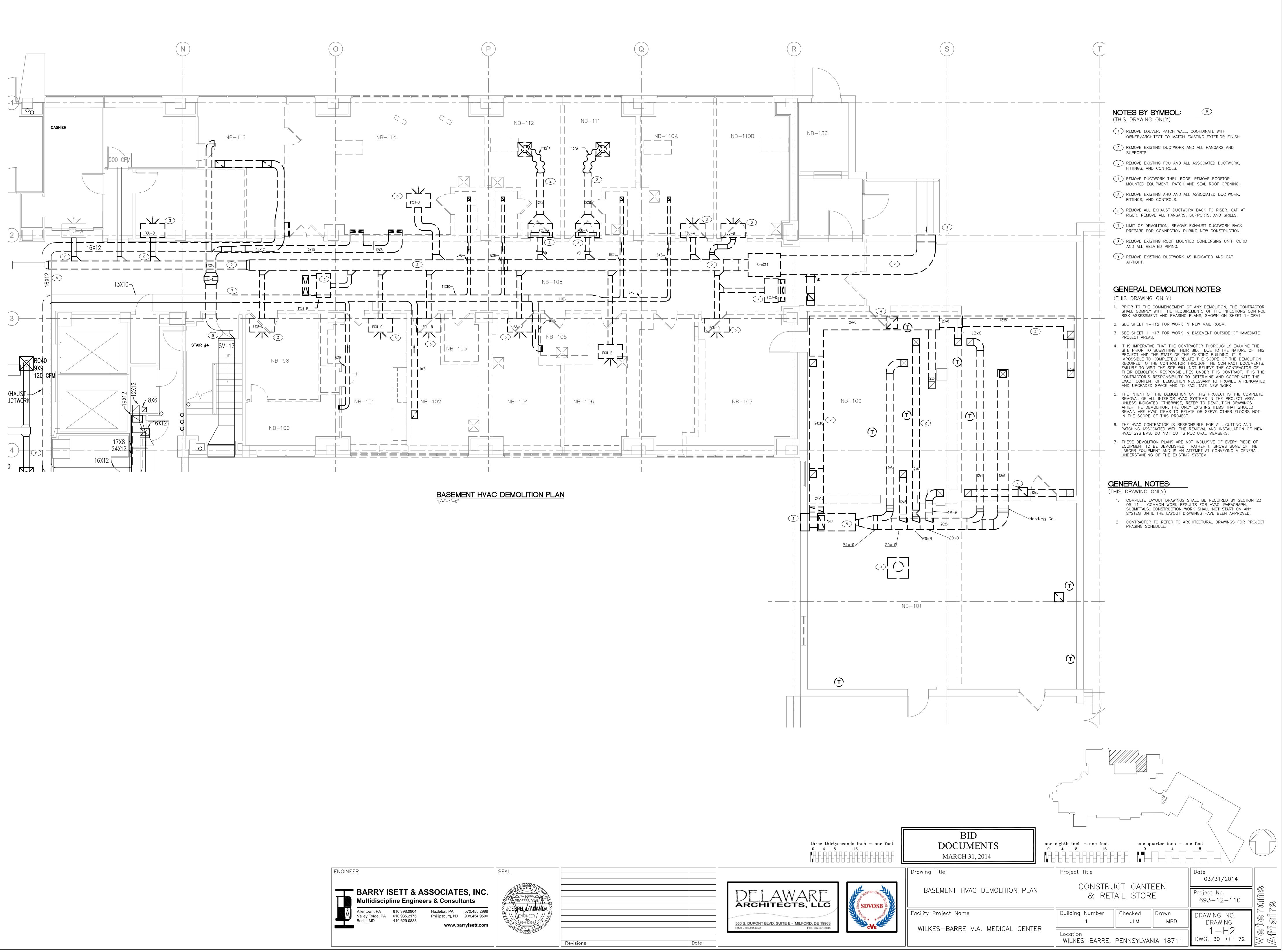
TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE

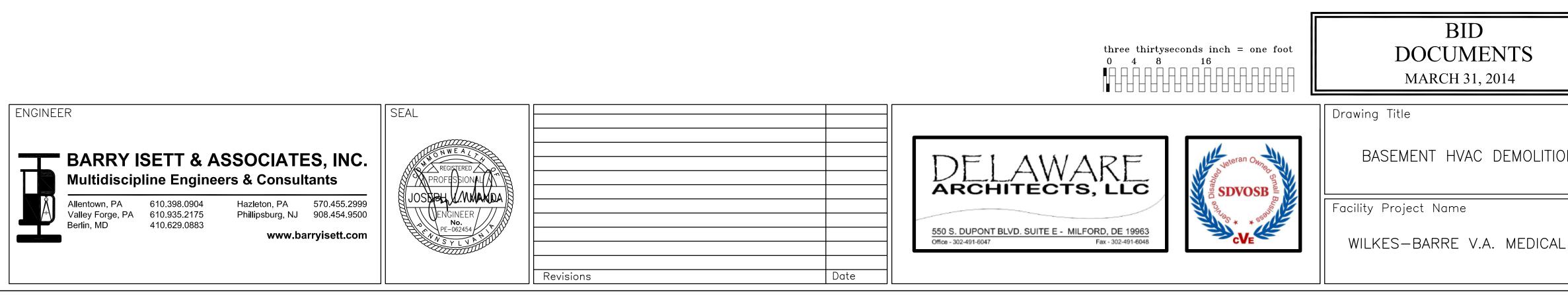
ELECTRIC OPERATED CONTROL DAMPER/OR VALVE

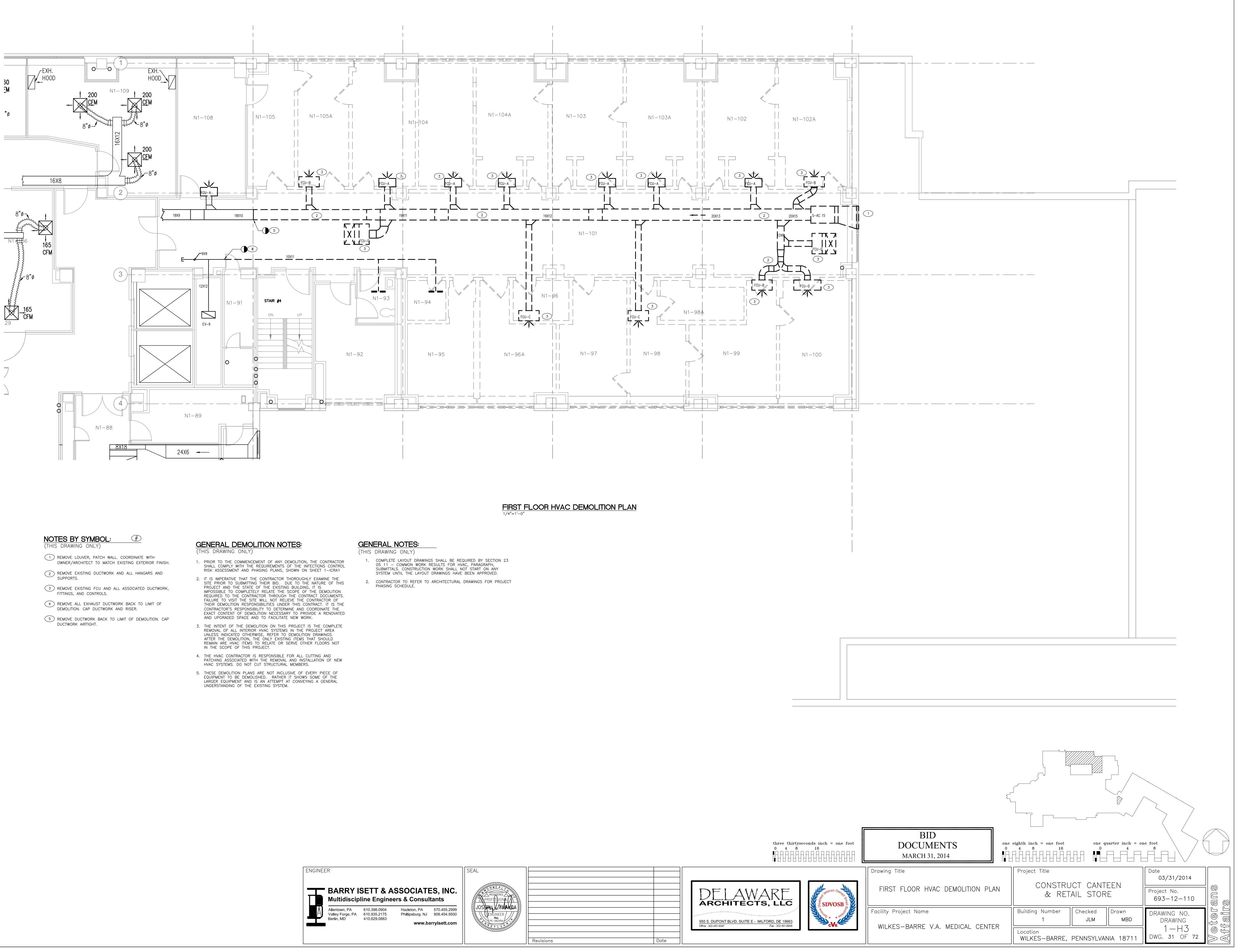
Date



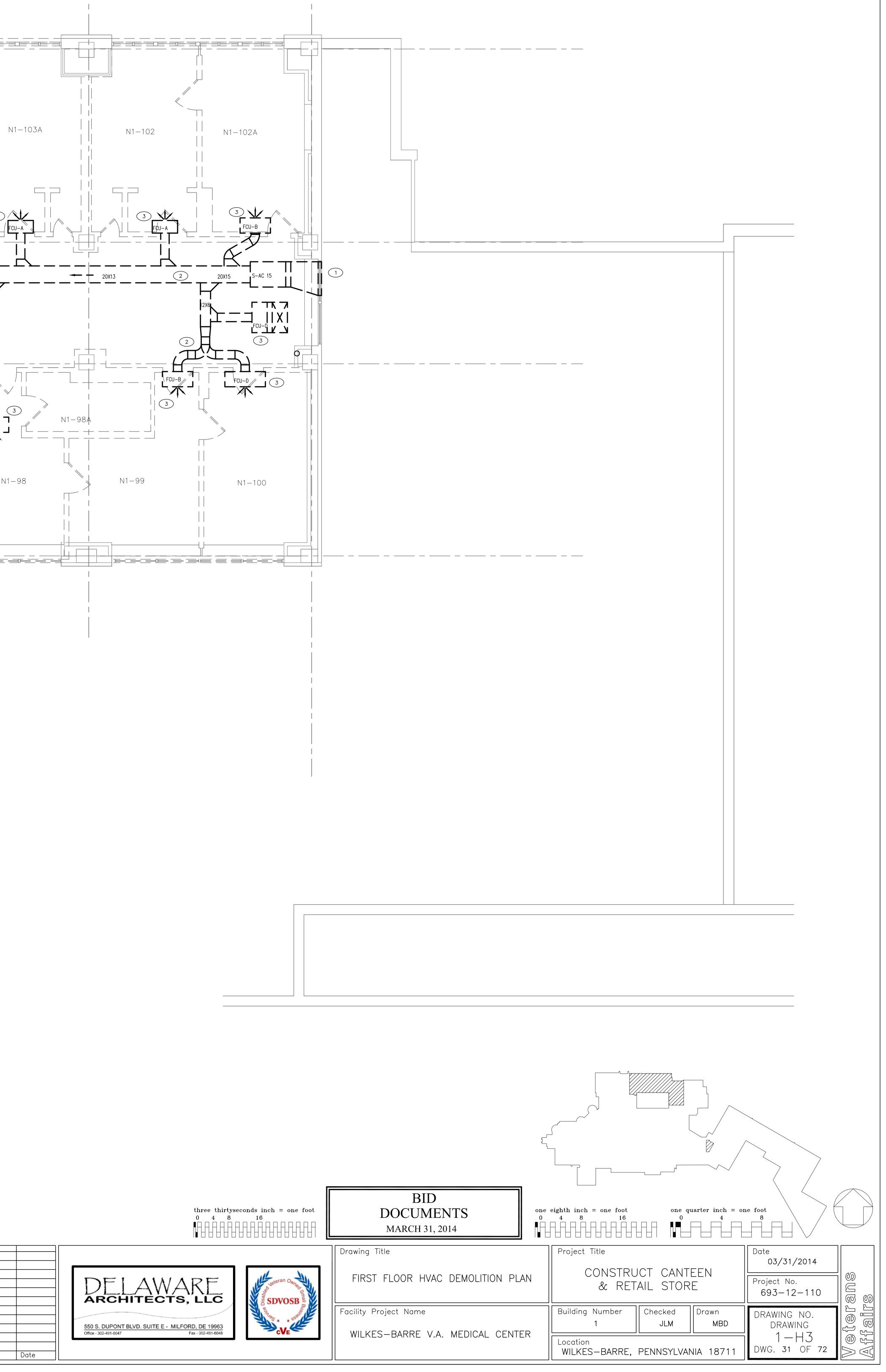


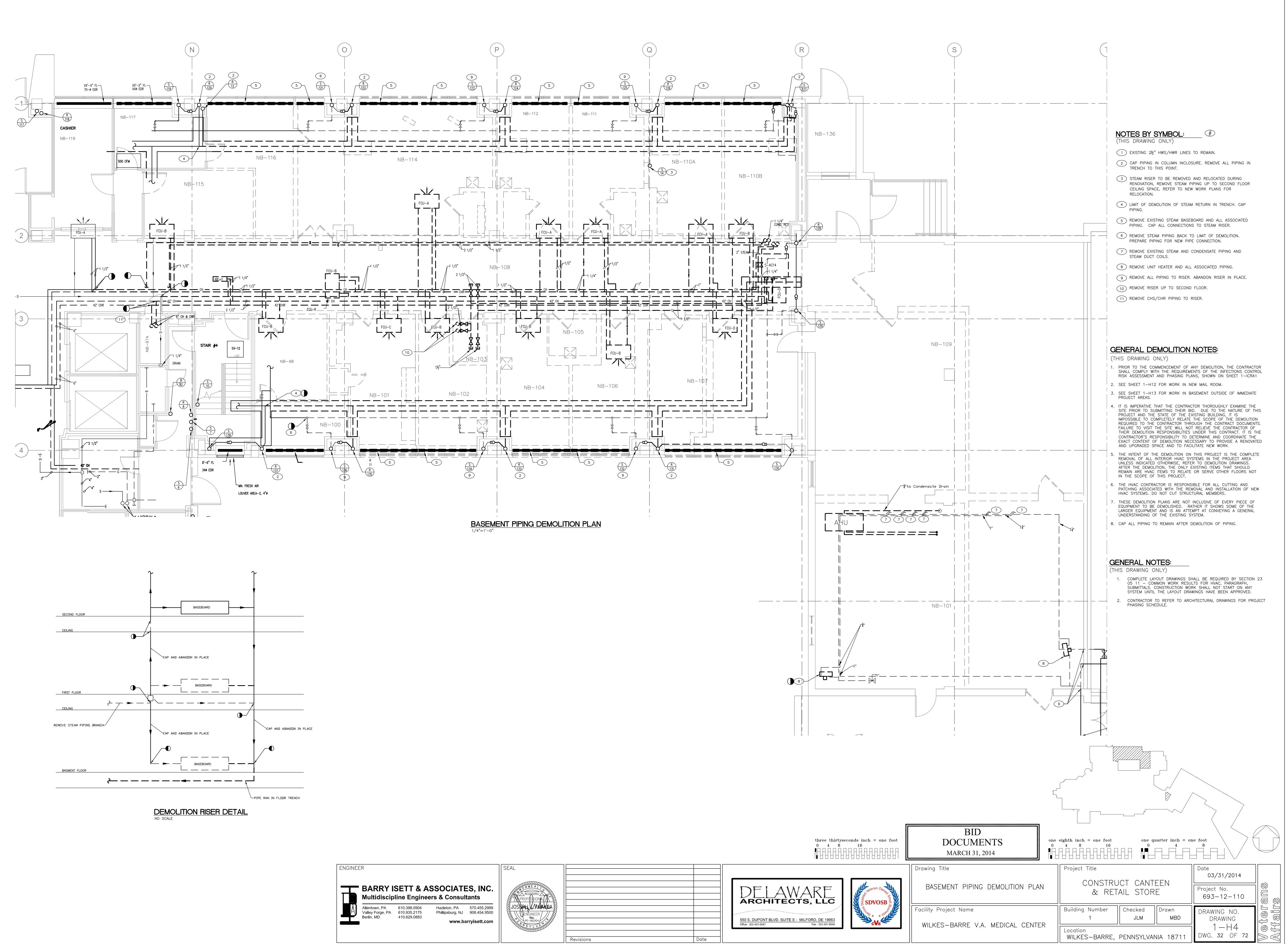


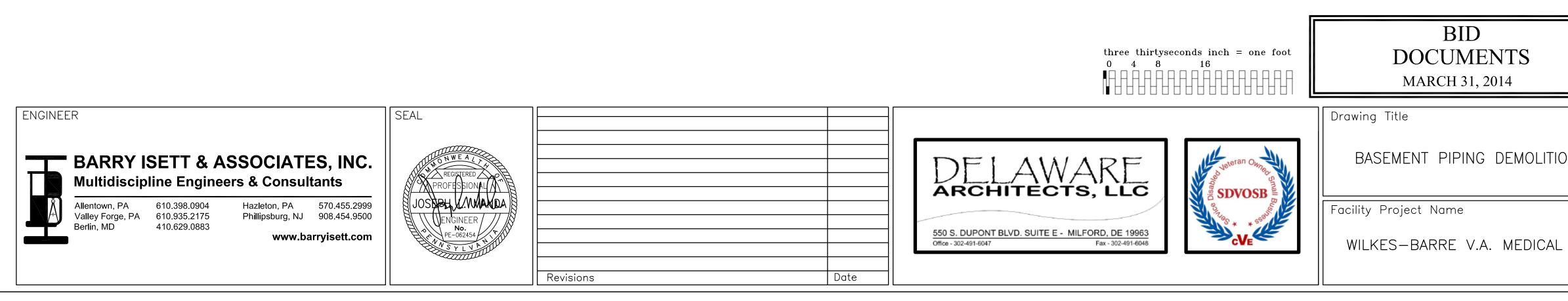


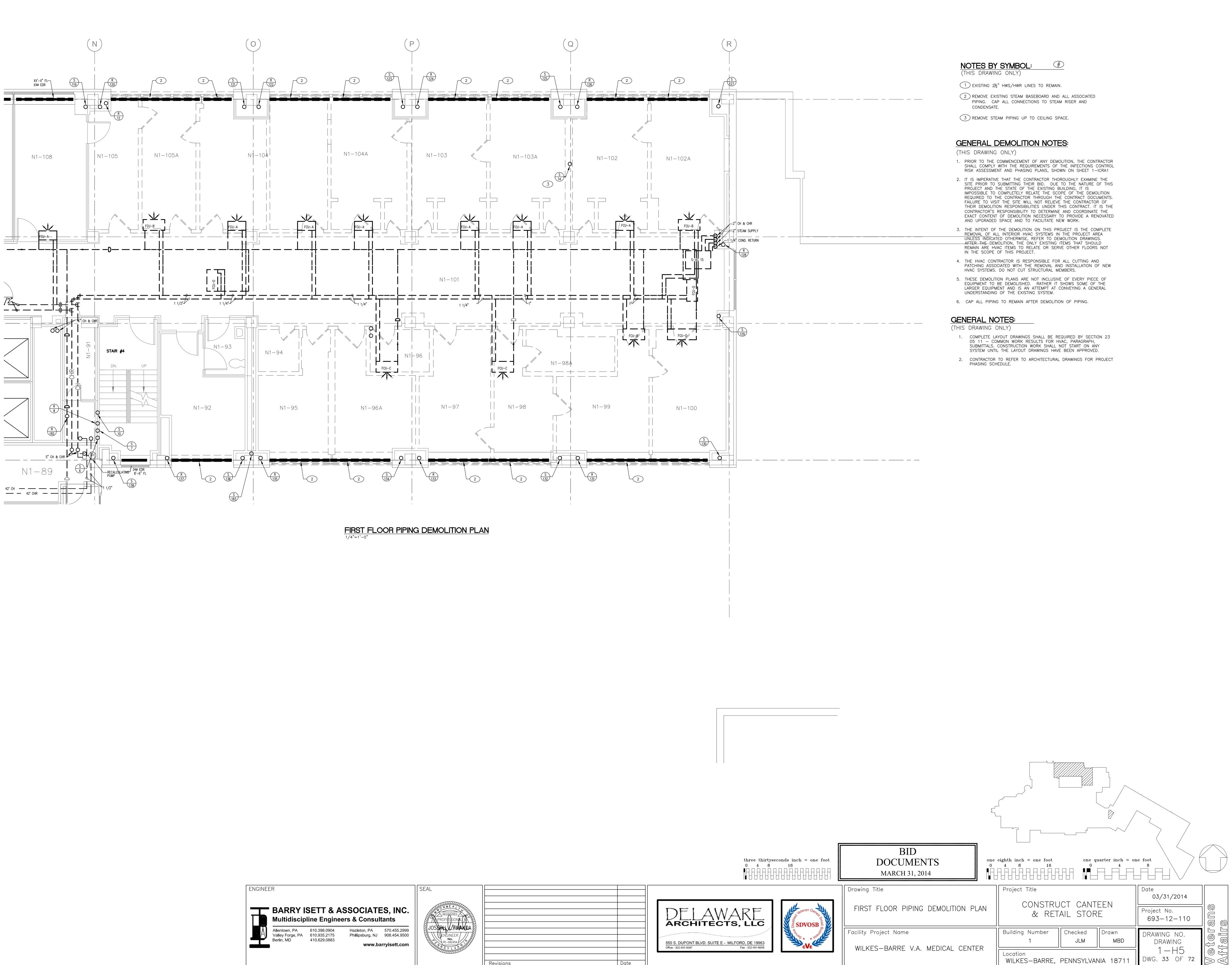


	BARRY I		SSOCIATE ers & Consult Hazleton, PA Phillipsburg, NJ www.bar	-	SEAL REGISTERED PROFESSIONAL JOSSEL NO: PE-062454		
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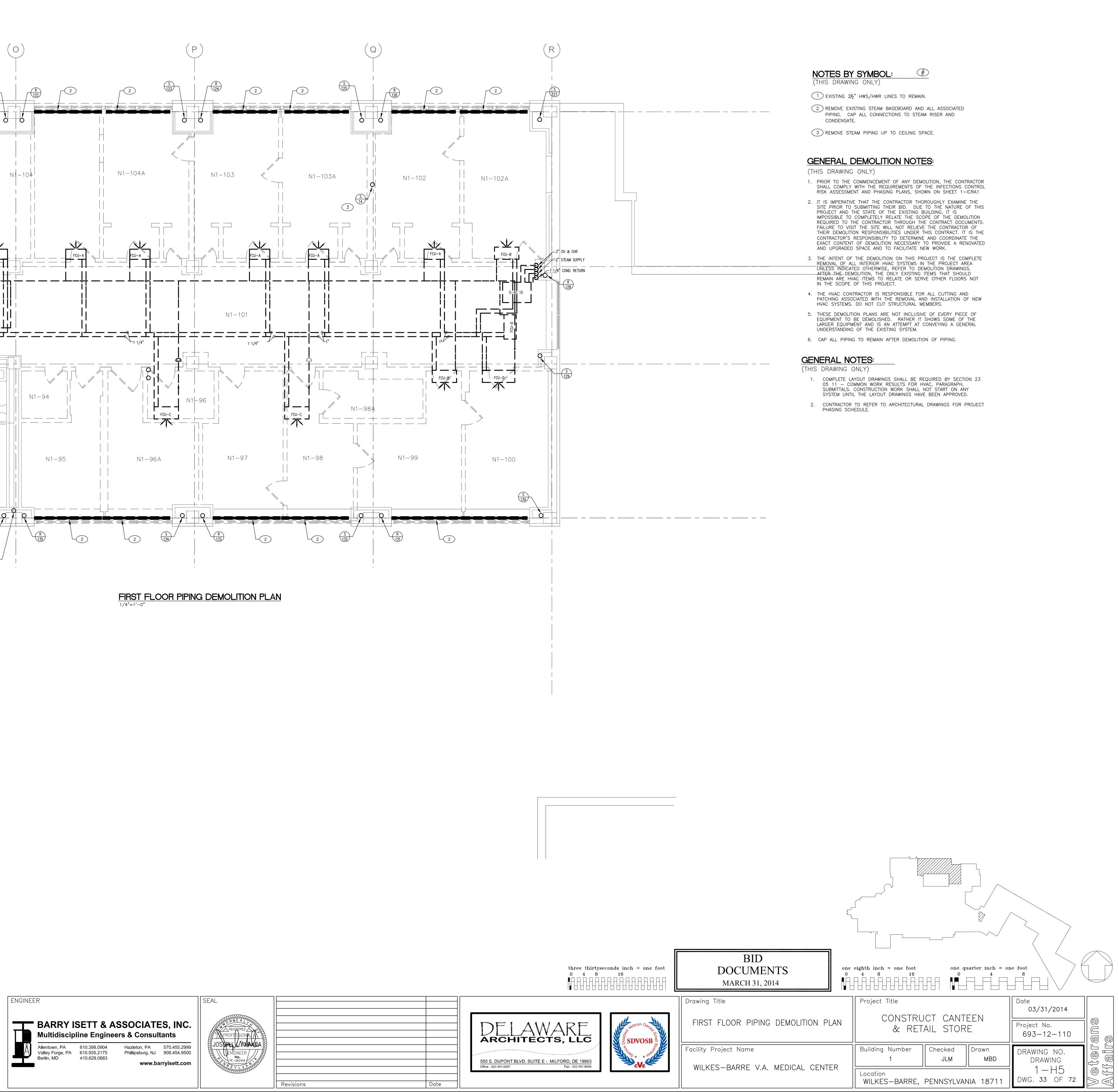


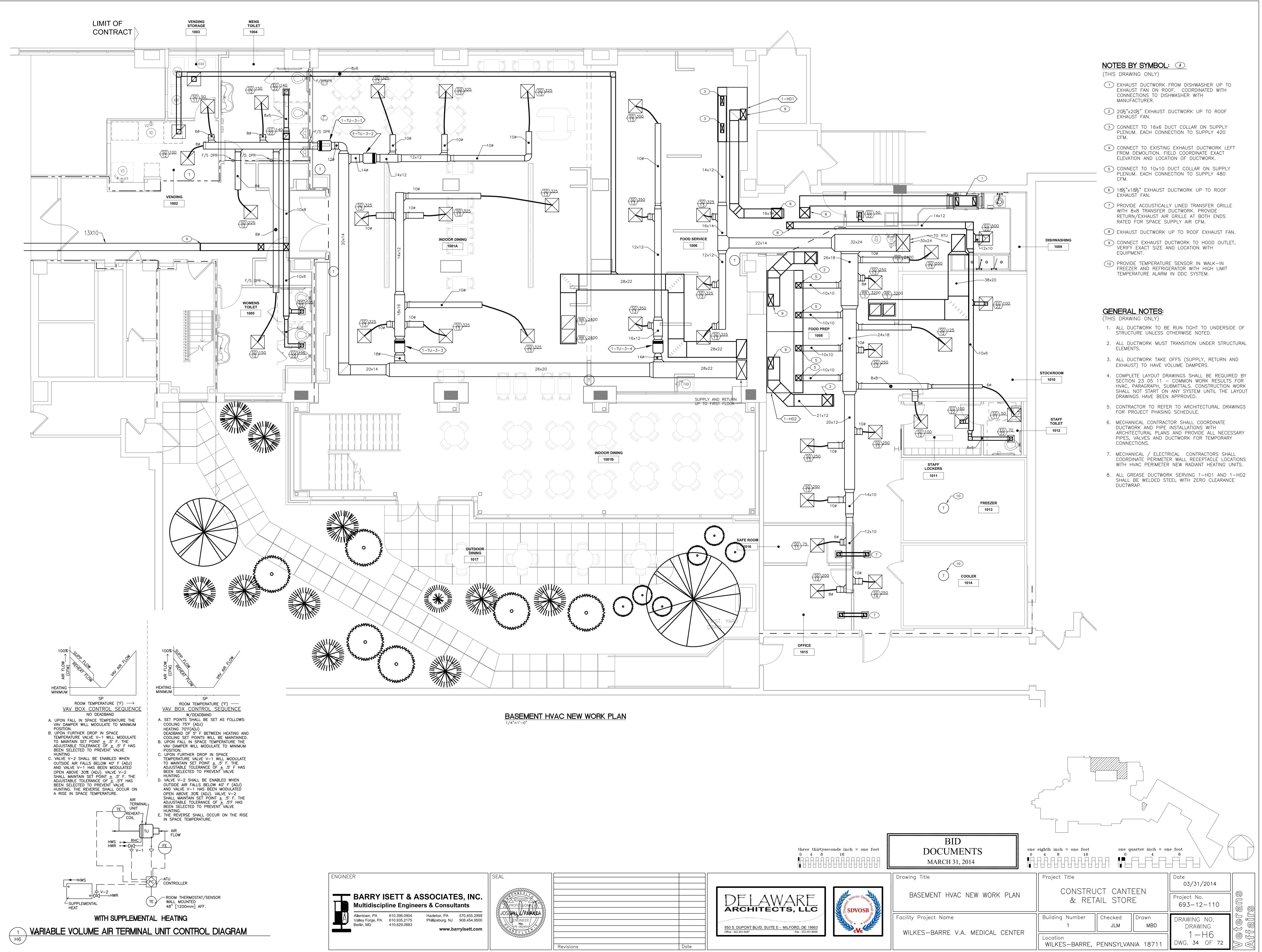


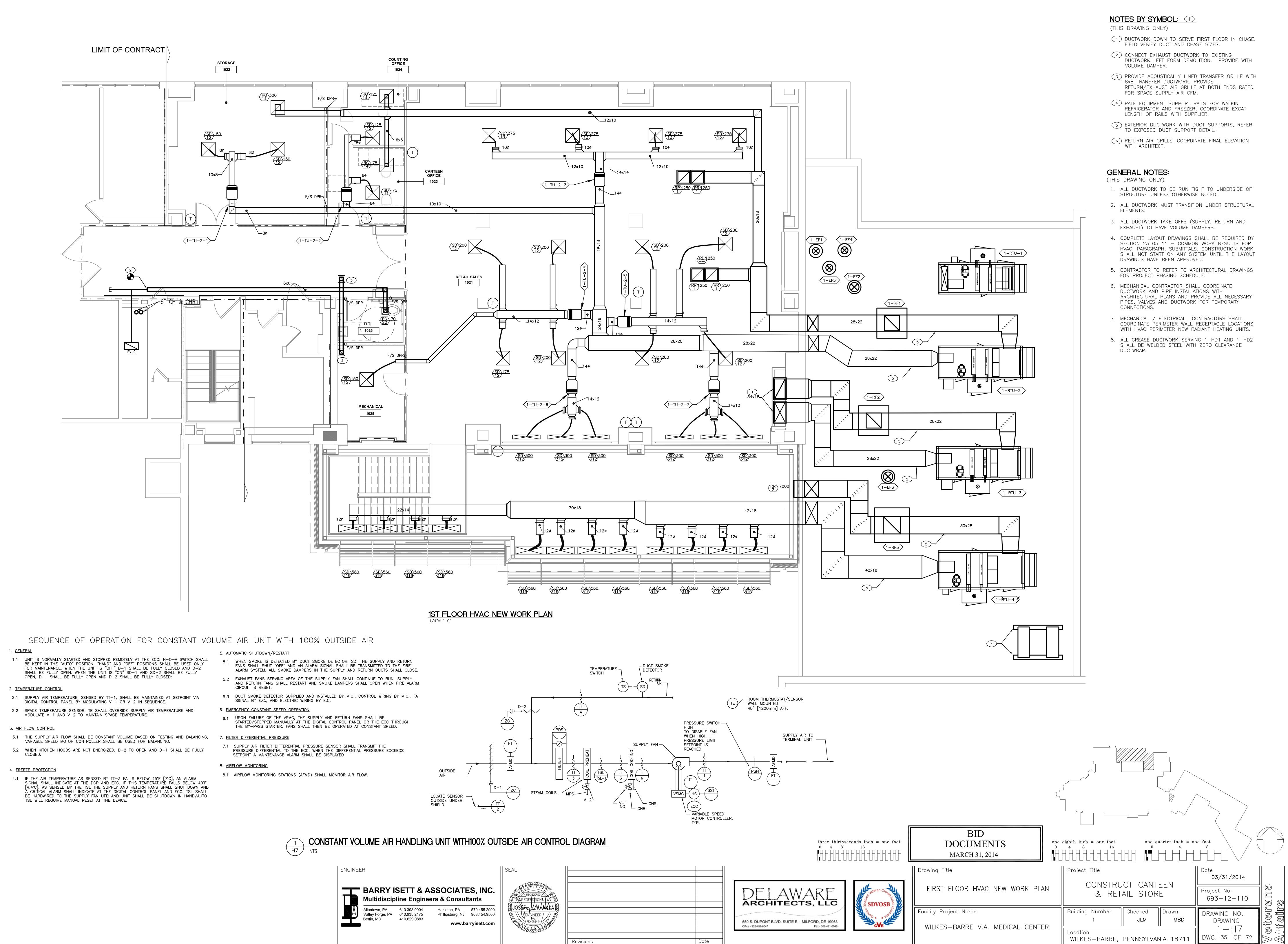












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