

Each installer will be named on a workman's compensation policy or have a current workman's compensation exemption certificate.

BRACE ALL CENTER											4	— 3"x 0.024 COMPOSITE ALUMINUM R — 2"x10" SM ALUMINUM BEAM
STS BOTH DIRECTIONS TH 4"x4"x.125 @ 45° ─── BRACE ALL CORNERS ───	#	41	<u>2'-0"</u>	Ŵ	#	#	Ŵ	000F #	*	-		— 4"x4"x0.125 ALUMINUM POST — HORIZONTAL ACRYLIC WINDOWS
BOTH DIRECTIONS WITH 4"x4"x.125 ALUMINUM DMPOSITE KICK PLATE			-2-0									- 2"x4"x 0.045 SNAP FOR SCREEN F

4 SIDE ELEVATION (VIEW FACING NORTH

SCALE: 1/8'' = 1'-0''

A.Furnish all materials, labor, equipment, supervision, and transportation to erect one 59.5' x 59' (63.5' X 63' with overhang) aluminum pool

Reference for material and installation shall be in accordance with Lawrence E. Bennett's 2004 Book of Engineering (attached) and is consid and is designed using 110 mph engineering.

2.4 $(4-1/2 \times 3/4")$ stainless steel expansion bolts with 1 1/2" washers (stainless) through plates attached to each 4" x 4" x 1/8" post 3. Through bolts for beams to post 4 (3/8" x 5") with 1" washers both sides

4. No angle clips to be substituted where internal screw system can be used (see page 3A-4 of the referenced document) 5. All screw bosses will be attached with 1-1/2" minimum embedment (3A-4)

6. Any beam splice will be plated with .125 aluminum with splice on inside of beam (3A-9)

7. Composite panels will be secured to beam every 8" on center with 4" long 3/8" lag bolts. Panels will be chalk lined and bolts will be pla horizontally and perpendicular to beams. All bolt heads caulked with "Geoseal 2300" white. 8. All fasteners that connect tops of beams together will be removed as composite panels are installed so panels will lay flat.

1. Aluminum Bronze except for composite roof and composite kick plate to be white both sides

D.Structure: Minimum height 8' below beams; Maximum height at peak 12'

1. Post: Structural post on east and west wall and through center are 4" x 4" x .125 6063–T6 (pg. 8–2)

2.Main beams: 2" x 10" x .092 x 369 S.M. (pg. 8–5) 3. Girts: Across tops of windows 2" x 4" x .050 patio section (pg. 8–1) with all 4 bosses attached.

4. All 4" x 4" x .125 post diagonally braced with 4" x 4" x .125 aluminum extrusion 2' down and 2' over on beam (45 degrees) with outer room and center post braced both directions.

1. All corners will be "K" braced both directions with 4" x 4" x .125 and plated as shown on (pg. 2–16) (Note changes to drawing with 4 2. All 4" x 4" x .125 posts will be center notched for beam (pg. 3A–33) 3. All post on North and South sides other than (4" x 4" x .125 post) to frame windows are 2" x 4" snap 4. A variable height ridge beam extrusion will be used (pg. 7–22)

1. All 4" x 4" x .125 posts are welded to 12" x12" x 1/2" aluminum plate and are to be secured to slab with 4 (evenly spaced) stainless

1. All fixed acrylic will be picture windows with frames (not acrylic) cut and put in place

1. All screen will be brand name "Phifer" 80% Sunteck (Screen must be rolled on job and screen must not be taken out of packages before

1. 3 all aluminum prime (minimum 1–3/4") fixed glass, tempered with 2' high kickplate (1–3/4" thick) 2.The door on west side and south side will be electrical handicapped doors 3. The door on the north side to be non-electrical doors

1. Build north wall same as south wall except shift door to 1' off of north east corner 2.Door in north wall put fixed tempered picture window next to door on the east side and a horizontal acrylic window on west side 3. Door in west wall put fixed tempered picture window next to on both sides 4. Door in south wall install horizontal acrylic windows on both sides

1. White, 2 sided, 3" thick composite panel, 24" high with 1" X 3" extruded receiving channel on all 4 sides with corners mitered

1. Sealed (embedded) with 2300 Geoseal on sides before attaching to posts and geoseal embedded on bottom before attaching to slab

1. Frames caulked before setting into opening with Geoseal 2300 2.Horizontal acrylic sliders mounted from outside with screen groove as part of window frame

1. To overlap 1' on each side of gable peak (see pg. 7–22) 2.Variable height ridge beam to be used (see pg. 7-22)

1. For outer edges secured 8" on center with 1/2" screws and covered with 3" "<u>Peel and Seal</u>" sealant

1. All seams and outer edges (trim) of composite roof will be cleaned with lacquer thinner (not acetone) and covered with white 3" wide "Pe from under "Peel and Seal" with metal wall paper roller. This will be verified by the engineering department. 2.6" OG roll-formed continuous gutter. Minimum .027 gauge.

3.4 (4" x 5") downspouts.4.Use correct size flat spline for Sunteck screen.

5. Spline must not be stretched and will be verified.

6.3'' thick composite kickplate trimmed out with 1" x 3-1/8" x 1" x .045 extruded receiving channel on all four sides.

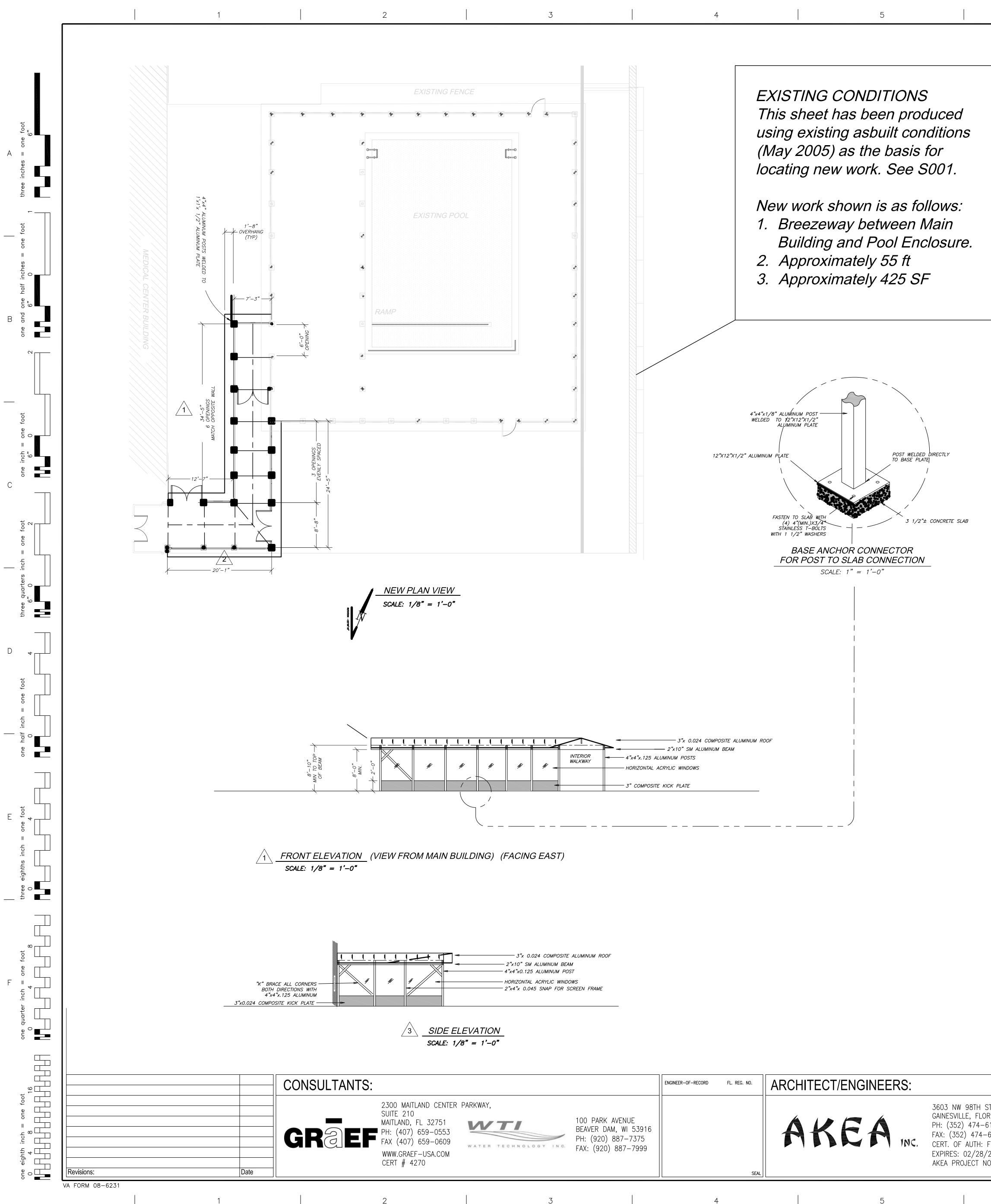
Bidding company must have an on going safety program and drug free program.

				FIN	AL DE
			APP	ROVE) FOR
	Drawing Title	Project Title			Project Numbe
	POOL ENCLOSURE-EXISTING CONDITIONS	RENOVATIO	NS TO THE F	POOL	573-2
	FOUL ENGLOSURE-EXISTING CONDITIONS	MALCOM RA	NDALL VAM	С	Building Numb
	Approved: Project Director	Location			Drawing Numb
		GAINESVILLE,	FLORIDA		
		Date	Checked	Drawn	ןׂ S1
		JULY 23, 2014	MDT	MDT	Page 1
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- EXISTING CURB

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ROOF	А
enclosure per detailed dered part of the specifications that supports structure laced precisely uniformed	В
er posts braced only on inside of (3/8") bolts with 1" washers). s 3/4" x 4–1/2" expansion bolts	С
re type and brand are verified)	D
	E
SIGN SUBMITTAL SIGN SUBMITTAL CONSTRUCTION Der -13-105 Ther 1 Ther 1 Ther 1	F
100 11 of 29 Department of Veterans Affairs	



3603 NW 98TH ST, SUITE B GAINESVILLE, FLORIDA 32606 PH: (352) 474–6124 FAX: (352) 474-6324 CERT. OF AUTH: FL #26693 EXPIRES: 02/28/2015 AKEA PROJECT NO: 053–13

3 4 5

NEW WORK

New work to match the material and specifications of the existing enclosure. See sheet S001. The building fabricator shall provide signed/sealed structural drawings and calculations

SPECIFICATIONS Materials and Execution

A.Furnish all materials, labor, equipment, supervision, and transportation to erect one 54' in length X ~8' wide aluminum breezeway (walkway) enclosure between Main Building and Pool Enclosure on First Floor, per detailed specifications and drawings. Approx 438 square feet.

Reference for material and installation shall be in accordance with Lawrence E. Bennett's 2004 Book of Engineering (attached) and is considered part of the specifications and is designed using 110 mph engineering.

The material and specifications shall match those of the existing enclosure.

B.Hardware: See attachments

1. "All" exposed hardware stainless steel 2.4 $(4-1/2 \times 3/4")$ stainless steel expansion bolts with 1 1/2" washers (stainless) through plates attached to each 4" x 4" x 1/8" post that supports structure

3. Through bolts for beams to post 4 $(3/8" \times 5")$ with 1" washers both sides 4. No angle clips to be substituted where internal screw system can be used (see page 3A-4 of the referenced document) 5. All screw bosses will be attached with 1-1/2" minimum embedment (3A-4)

6. Any beam splice will be plated with .125 aluminum with splice on inside of beam (3A-9)7. Composite panels will be secured to beam every 8" on center with 4" long 3/8" lag bolts. Panels will be chalk lined and bolts will be placed precisely uniformed horizontally and perpendicular to beams. All bolt heads caulked with "Geoseal 2300" white. 8. All fasteners that connect tops of beams together will be removed as composite panels are installed so panels will lay flat.

C.Color: 1. Aluminum Bronze except for composite roof and composite kick plate to be white both sides

2.Screen: Charcoal 3. Acrylic: Clear

D.Structure: Minimum height 8' below beams; Maximum height at peak 10' 1. Post: Structural post are 4" x 4" x .125 6063–T6 (pg. 8–2)

2.Main beams: 2" x 10" x .092 x 369 S.M. (pg. 8–5)

3. Girts: Across tops of windows 2" x 4" x .050 patio section (pg. 8–1) with all 4 bosses attached.

4. All 4" x 4" x .125 post diagonally braced with 4" x 4" x .125 aluminum extrusion 2' down and 2' over on beam (45 degrees) with outer posts braced only on inside of room.

E.To Side of Post

1. All corners will be "K" braced both directions with 4" x 4" x .125 and plated as shown on (pg. 2–16) (Note changes to drawing with 4 (3/8") bolts with 1" washers).

2. All 4" x 4" x .125 posts will be center notched for beam (pg. 3A–33)

3. All post other than (4" x 4" x .125 post) to frame windows are 2" x 4" snap

4. A variable height ridge beam extrusion will be used (pg. 7–22)

F. Foundations:

1. All 4" x 4" x .125 posts are welded to 12" x12" x 1/2" aluminum plate and are to be secured to slab with 4 (evenly spaced) stainless 3/4" x 4-1/2" expansion bolts (pg. 9-1) and (pg. 2-22)

G. Acrylic 1. All fixed acrylic will be picture windows with frames (not acrylic) cut and put in place

H.Screen

1. All screen will be brand name "Phifer" 80% Sunteck (Screen must be rolled on job and screen must not be taken out of packages before type and brand are verified)

I. Doors

1. 3 double doors all aluminum prime (minimum 1-3/4") fixed glass, tempered with 2' high kickplate (1-3/4") thick) 2.The double door on east side to pool enclosure will be electrical handicapped doors

3. The double doors on east side to exterior and north side to exterior to be non-electrical doors 4. All doors are to be keyed alike

J. Walls

1. All doors install horizontal acrylic windows adjacent to door, except interior door to pool enclosure.

K.Kickplate

1. White, 2 sided, 3" thick composite panel, 24" high with 1" X 3" extruded receiving channel on all 4 sides with corners mitered L. Receiving Channel

1. Sealed (embedded) with 2300 Geoseal on sides before attaching to posts and geoseal embedded on bottom before attaching to slab M.Windows

1. Frames caulked before setting into opening with Geoseal 2300

2. Horizontal acrylic sliders mounted from outside with screen groove as part of window frame

N.Ridge Cap

1. To overlap 1' on each side of gable peak (see pg. 7–22) 2.Variable height ridge beam to be used (see pg. 7–22)

O.Cap

1. For outer edges secured 8" on center with 1/2" screws and covered with 3" "<u>Peel and Seal</u>" sealant

P. Miscellaneous

1. All seams and outer edges (trim) of composite roof will be cleaned with lacquer thinner (not acetone) and covered with white 3" wide "Peel and Seal". All air rolled out from under "Peel and Seal" with metal wall paper roller. This will be verified by the engineering department. 2.6" OG roll-formed continuous gutter. Minimum .027 gauge.

 $3.4 (4" \times 5")$ downspouts. 4. Use correct size flat spline for Sunteck screen.

5. Spline must not be stretched and will be verified.

6.3'' thick composite kickplate trimmed out with $1'' \times 3-1/8'' \times 1'' \times .045$ extruded receiving channel on all four sides.

Bidding company prior to construction of the breezeway will produce and sign/seal by Florida—registered Professional Engineer structural drawings and structural calculations including design calculations to withstand windloads to 110 mph.

Bidding company must have an on going safety program and drug free program.

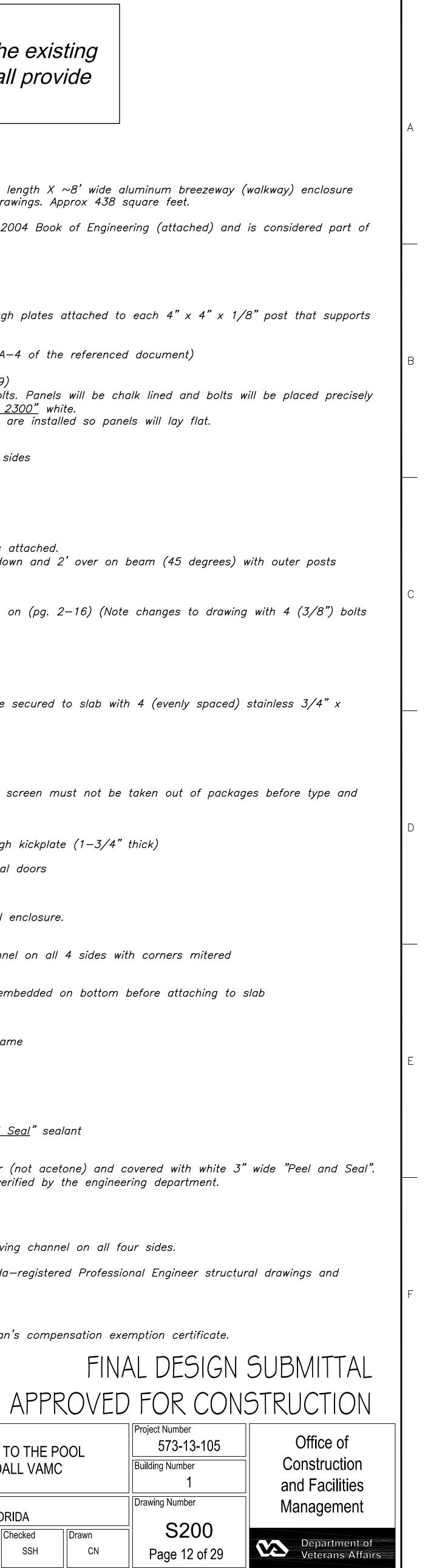
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Each installer will be named on a workman's compensation policy or have a current workman's compensation exemption certificate.

Drawing Title	Project Title			Project Numb
POOL ENCLOSURE-NEW WORK-BREEZEWAY		ONS TO THE ANDALL VAM		573- Building Num
Approved: Project Director	Location GAINESVILLE	, FLORIDA		Drawing Num
	Date	Checked	Drawn	
	JULY 23, 2014	SSH	CN	Page

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6



A	three inches = one foot 6"
В	one and one half inches = one foot
С	one inch = one foot 6° 0
	three quarters inch = one foot 6" 0 2 2
D	4
	one half inch = one foot
E	= one foot
	three eighths inch = one
F	one quarter inch = one foot
	one eighth inch = one foot 0 4 8 ¹⁶

Revisions:

VA FORM 08-623

1"ø		
1"ø	0' - 0 3/8"	1
1"ø	0' - 0 9/16"	1
1"ø 1"ø	0' - 1 9/16" 0' - 0 27/32"	2
1"ø	0' - 1 1/8"	1
1"ø	0' - 2 1/32"	1
1"ø	0' - 2 7/8"	1
1"ø	0' - 3 11/16"	
1"ø 1"ø	0' - 3 7/8"	1
1"ø	0' - 4 5/32	1
1"ø	0' - 4 29/32"	
1"ø	0' - 5 7/8"	1
1"ø	0' - 6 17/32"	
1"ø 1"«	1' - 1 3/32" 0' - 7"	2
1"ø 1"ø	1' - 2 1/8"	1
1"ø	0' - 7 5/16"	1
1"ø	0' - 7 21/32"	1
1"ø	0' - 8 9/32"	1
1"ø	0' - 8 11/32"	
1"ø 1"ø	0' - 8 13/16"	
1"ø 1"ø	0' - 9 15/32" 0' - 10 9/32"	
1"ø	0' - 10 9/32	1
	11/32"	
1"ø 1"~	0' - 10 7/8"	1
1"ø 1"ø	0' - 11 1/4"	1
1"ø 1"ø	0' - 11 3/8"	1
	15/32"	
1"ø	0' - 11 1/2"	1
1"ø 1"ø	1' - 0 23/32"	
1"ø 1"ø	1' - 1 5/16" 1' - 1 11/32"	1
1"ø	1' - 1 27/32"	
1"ø	1' - 1 7/8"	1
1"ø	1' - 2 1/4"	1
1"ø	1' - 6 1/8"	1
1"ø	1' - 11 25/32"	1
1"ø	2' - 0 9/32"	1
1"ø	2' - 0 3/4"	1
1"ø	2' - 0 29/32"	1
1"ø	2' - 1 3/32"	1
1"ø 1"ø	2' - 1 3/4" 2' - 3 9/32"	1
1"ø	2' - 3 9/32 2' - 3 13/16"	
1"ø	2' - 7 3/32"	1
1"ø	3' - 1 3/8"	1
1"ø	3' - 3 5/16"	1
1"ø	4' - 2 1/8"	1
1"ø 1"ø	4' - 5 3/4" 4' - 7 9/32"	1
1 Ø 1"Ø	4 - 7 9/32 4' - 7 11/16"	
1"ø	4' - 8 17/32"	
1"ø	9' - 9 3/4"	2
1"ø 1"~	5' - 1 17/32"	
1"ø 1"ø	5' - 2 3/32" 5' - 2 3/8"	1
1"ø 1"ø	5' - 2 3/8" 5' - 2 13/32"	
1"ø	5' - 3 11/32"	
1"ø	5' - 3 9/16"	1
1"ø	5' - 4 5/8"	1
1"ø	5' - 6 7/8"	1
1"ø	5' - 10 23/32"	1
1"ø	6' - 8 7/8"	1
1"ø	6' - 11 1/8"	1
1"ø	7' - 1 11/32"	1
1"ø	7' - 3 15/32"	
1"ø 1"«	7' - 3 15/32"	
1"ø 1"ø	7' - 5 25/32"	
1"ø 1"ø	7' - 5 31/32" 7' - 8 1/8"	1
1"ø	12' - 0 1/8"	1
	201' - 9	<u> </u>
	27/32"	
2"ø		4
2"ø 2"ø	0' - 0 17/32"	
2"ø 2"ø	0' - 0 23/32" 0' - 0 31/32"	
2 Ø 2"Ø	0' - 0 31/32	1
2"ø	0' - 1 3/8"	1
2"ø	0' - 2 1/32"	1
2"ø	0' - 2 3/32"	1
2"ø	0' - 2 5/16"	1
2"ø	0' - 2 7/16"	1
2"ø 2"ø	0' - 2 15/16" 0' - 3 1/16"	
2"ø 2"ø	0' - 3 1/16"	1
2"ø	0' - 3 7/16"	1
2"ø	0' - 4 13/32"	
2"ø	0' - 4 5/8"	1
2"ø	0' - 4 25/32"	
2"ø 2"ø	0' - 5 5/16"	1
2"ø 2"ø	0' - 6 1/8" 0' - 6 15/32"	1
	0' - 6 15/32	1
2"ø		1 ·

Size	Pipe Schedul	e Count	Size	Pipe Sche Lengtl
2"ø 2"ø	0' - 9 3/8" 0' - 9 1/2"	1	3"ø 3"ø	1' - 3" 1' - 3 5/1
2"ø	1' - 9 17/32"		3"ø	1' - 5 3/8
2"ø 2"ø	0' - 11" 1' - 0 1/32"	1	3"ø 3"ø	1' - 8 5/1 1' - 9 3/4
2 Ø 2"ø	1' - 0 9/16"	1	3 ø 3"ø	1' - 10
2"ø	1' - 0 3/4"	1	3"ø	23/32" 1' - 11 1/
2"ø 2"ø	1' - 0 31/32" 1' - 1 7/16"	1	3"ø	2' - 2 25/
2"ø	1' - 1 3/4"	1	3"ø	2' - 4 3/4
2"ø 2"ø	1' - 3 1/8" 1' - 3 5/32"	1	3"ø 3"ø	2' - 6 5/3 2' - 7"
2"ø	1' - 3 3/4"	1	3"ø	2' - 7 11/
2"ø 2"ø	1' - 4 13/32" 2' - 9 17/32"		3"ø	2' - 10 15/32"
2 Ø 2"ø	1' - 4 25/32"		3"ø	3' - 0 3/4
2"ø	1' - 5 13/32"		3"ø 3"ø	3' - 0 7/8 3' - 1"
2"ø 2"ø	1' - 6 13/32" 1' - 8"	1	3"ø	4' - 0 15/
2"ø	1' - 8 13/32"		3"ø 3"ø	8' - 2 1/3 4' - 2 5/3
2"ø 2"ø	1' - 8 25/32" 1' - 9 31/32"		3"ø	4' - 4 5/1
2"ø	1' - 10 3/16"		3"ø	4' - 5 29/
2"ø 2"ø	1' - 10 9/16" 2' - 0 27/32"		3"ø 3"ø	5' - 0 15/ 5' - 2 1/8
2 Ø 2"ø	2' - 2 3/16"	1	3"ø	5' - 5 5/1
2"ø	2' - 2 17/32"		3"ø 3"ø	5' - 6 7/3 12' - 8 3/
2"ø 2"ø	2' - 2 23/32" 2' - 2 31/32"		3"ø	6' - 6"
2"ø	2' - 3 11/32"	1	3"ø 3"ø	7' - 6 13/ 7' - 11
2"ø 2"ø	2' - 3 7/16" 2' - 3 17/32"	1		11/32"
2"ø	2' - 3 15/16"		3"ø 3"ø	8' - 0 3/8 8' - 1"
2"ø 2"ø	2' - 6 5/16" 2' - 6 7/8"	1	3 Ø 3"Ø	8' - 2 5/8
2"ø 2"ø	5' - 1 25/32"	-	3"ø 2"¢	8' - 3 3/1
2"ø	2' - 10 9/32"	1	3"ø 3"ø	8' - 3 1/2 8' - 6 7/8
2"ø	2' - 10 25/32"	1	3"ø	8' - 7 1/8
2"ø	30' - 10"	10	3"ø 3"ø	9' - 4 29/ 9' - 6 19/
2"ø 2"ø	3' - 6 19/32" 4' - 0 7/8"	1	3"ø	9' - 9 13/
2"ø	4' - 1 13/32"		3"ø 3"ø	9' - 10 5/ 10' - 0 9/
2"ø 2"ø	4' - 11 9/32" 6' - 2 23/32"		3"ø	10' - 1 3/
2"ø	6' - 4 5/8"	1	3"ø	10' - 2 1/
2"ø 2"ø	6' - 10 9/16" 7' - 6 15/32"		3"ø 3"ø	12' - 3 3/ 13' - 11
2 Ø 2"Ø	7' - 10	1	2"a	15/32" 14' - 7 3/
2"ø	13/32" 8' - 2 11/32"	1	3"ø 3"ø	30' - 2 3/
2"ø	8' - 2 25/32"		3"ø	18' - 7 5/
2"ø 2"ø	8' - 8 15/32" 9' - 10 3/4"	1		354' - 4 27/32"
2"ø	10' - 8 5/16"	-	4"ø 4"ø	0' - 1 3/4
2"ø	14' - 6 31/32"	1	4 Ø 4"ø	0' - 1 29/
2"ø	18' - 6 1/8"	1	4"ø	0' - 6"
	237' - 2 27/32"		4"ø 4"ø	0' - 2 1/3 0' - 2 1/8
3"ø			4"ø	0' - 6 1/1
3"ø 3"ø	0' - 0 19/32" 0' - 1 3/8"	1 2	4"ø 4"ø	0' - 4" 1' - 0 7/8
3"ø	0' - 0 3/4"	1	4"ø	0' - 6 31/
3"ø 3"ø	0' - 1 1/16" 0' - 1 7/16"	1	4"ø 4"ø	0' - 7 7/1 0' - 7 1/2
3 Ø 3"ø	0' - 1 1/2"	1	4"ø	0' - 10
3"ø	0' - 1 1/2"	1	4"ø	11/16" 1' - 7 3/8
3"ø 3"ø	0' - 1 25/32" 0' - 1 7/8"	1	4"ø	2' - 9"
3"ø	0' - 1 29/32"	1	4"ø 4"ø	4' - 1 25/ 6' - 7 3/8
3"ø 3"ø	0' - 3 13/32" 0' - 4 1/16"	1	4 Ø 4"Ø	9' - 0 7/8
3"ø	0' - 4 3/16"	1	4"ø 4"ø	10' - 1 1/ 11' - 8 9/
3"ø 3"ø	0' - 4 1/4" 0' - 4 5/16"	1	4"ø 4"ø	13' - 10 5
3"ø	0' - 4 17/32"		4"ø	16' - 2 23/32"
3"ø 3"ø	0' - 5 9/32" 0' - 5 27/32"	1		81' - 10
3"ø 3"ø	0' - 5 27/32" 0' - 5 15/16"	1	6"ø	11/16"
3"ø	0' - 6 1/16"	1	6 Ø 6"Ø	0' - 0 3/8
3"ø 3"ø	0' - 6 1/16" 0' - 6 25/32"	1	6"ø	0' - 0 7/8
3"ø	0' - 7 9/16"	1	6"ø 6"ø	0' - 3 3/1 0' - 3 31/
3"ø 3"ø	0' - 7 7/8" 0' - 8"	1	6"ø	0' - 4 1/2
3"ø	0' - 8 7/32"	1	6"ø 6"ø	1' - 1 25/ 0' - 4 3/4
3"ø 3"ø	0' - 8 19/32" 0' - 10 5/16"	1	6"ø	0' - 8 11/
3 Ø 3"ø	0' - 10	1	6"ø	1' - 0 27/ 4' - 4 29/
3"ø	13/32" 0' - 10	1	10"ø	· · · 23/
	25/32"		10"ø	0' - 3 17/
3"ø 3"ø	0' - 11 1/4" 0' - 11	1	10"ø 10"ø	1' - 2 1/3 2' - 2"
	23/32"		10"ø	2' - 11
3"ø 3"ø	0' - 11 7/8" 1' - 0 3/16"	1	10"ø	25/32" 8' - 8 1/3
3 Ø 3"ø	1' - 0 5/8"	1		15' - 3
3"ø	1' - 1 23/32"	1	Grand total:	
3"ø 3"ø	1' - 2 1/32" 1' - 2 5/32"	1	299	15/32"
]		

2

CONSULTANTS:

Date

1



2

F	Pipe Schedule	Э
	Length	Count
	1' - 3"	1
	1' - 3 5/16"	1
	1' - 5 3/8"	1
	1' - 8 5/16"	1
	1' - 9 3/4"	1
	1' - 10	1
	23/32"	
	1' - 11 1/4"	1
	2' - 2 25/32"	1
	2' - 4 3/4"	1
	2' - 6 5/32"	1
	2' - 7"	1
	2' - 7 11/16"	1
	2' - 10	1
	15/32"	
	3' - 0 3/4"	1
	3' - 0 7/8"	1
	3' - 1"	1
	4' - 0 15/16"	1
	8' - 2 1/32"	2
	4' - 2 5/32"	1
	4' - 4 5/16"	1
	4' - 5 29/32"	1
	5' - 0 15/16"	1
	5' - 2 1/8"	1
	5' - 5 5/16"	1
	5' - 6 7/32"	1
	12' - 8 3/8"	2
	6' - 6"	1
	7' - 6 13/16"	1
	7' - 11	1
	11/32"	
	8' - 0 3/8"	1
	8' - 1"	1
	8' - 2 5/8"	1
	8' - 3 3/16"	1
	8' - 3 1/2"	1
	8' - 6 7/8"	1
	8' - 7 1/8"	1
	9' - 4 29/32"	1
	9' - 6 19/32"	1
	9' - 9 13/16"	1
	9' - 10 5/32"	1
	10' - 0 9/16"	1
	10' - 1 3/4"	1
	10' - 2 1/4"	1
	12' - 3 3/8"	1
	13' - 11	1
	15/32"	
	14' - 7 3/8"	1
	30' - 2 3/4"	2
	18' - 7 5/8"	1

0' - 1 3/4"	1
0' - 1 29/32"	1
0' - 6"	3
0' - 2 1/32"	1
0' - 2 1/8"	1
0' - 6 1/16"	2
0' - 4"	1
1' - 0 7/8"	2
0' - 6 31/32"	1
0' - 7 7/16"	1
0' - 7 1/2"	1
0' - 10	1
11/16"	
1' - 7 3/8"	1
2' - 9"	1
4' - 1 25/32"	1
6' - 7 3/8"	1
9' - 0 7/8"	1
10' - 1 1/32"	1
11' - 8 9/16"	1
13' - 10 5/8"	1
16' - 2	1
23/32"	

0' - 0 3/8"	1
0' - 0 7/8"	1
0' - 3 3/16"	1
0' - 3 31/32"	1
0' - 4 1/2"	1
1' - 1 25/32"	3
0' - 4 3/4"	1
0' - 8 11/16"	1
1' - 0 27/32"	1
4' - 4 29/32"	

0' - 3 17/32"	1
1' - 2 1/32"	2
2' - 2"	2
2' - 11	2
25/32"	
8' - 8 1/32"	2

Pipe Fitting Schedule				
Size	Count			
1"~ 1"~	EC			
1"ø-1"ø	56			
1"ø-1"ø-1"ø	13			
2"ø-1"ø	15			
2"ø-2"ø	47			
2"ø-2"ø-2"ø	12			
3"ø-2"ø	23			
3"ø-3"ø	70			
3"ø-3"ø-3"ø	25			
4"ø-1"ø	1			
4"ø-2"ø	2			
4"ø-3"ø	7			
4"ø-4"ø	20			
4"ø-4"ø-4"ø	3			
6"ø-2"ø	1			
6"ø-4"ø	1			
6"ø-4"ø-3"ø	2			
6"ø-6"ø	2			
6"ø-6"ø-6"ø	3			
10"ø-10"ø	20			

4

	DESCRIPTION
	COLD WATER PIPING AND FLOW
	HOT WATER PIPING AND FLOW
	HOT WATER RETURN PIPING AND FLOW
	WASTE OR SANITARY PIPING
► G	GAS PIPING AND FLOW
 О"\/TD	VENT PIPING
2"VTR	VENT THRU ROOF AND SIZE
GR	KITCHEN GREASE PIPING
ST	STORM DRAIN PIPING
RWL	RAIN LEADER PIPING
OFST	
AV	
AW	ACID WASTE PIPING
A	
MA	MEDICAL AIR PIPING NITROGEN PIPING
N	NITROUS OXIDE PIPING
OX	OXYGEN PIPING
V	VACUUM PIPING
V	HOUSE VACUUM PIPING
	SOFT WATER PIPING
	ROOF DRAIN AND SIZE
	RISER WITH SHUT OFF VALVE
	BALL VALVE
	VALVE IN VALVE BOX
 	GATE VALVE
\rightarrow	CHECK VALVE
	BACKFLOW PREVENTER
	GAS COCK
k	PRESSURE REDUCING VALVE
Ŷ	SOLENOID VALVE
X	ISOLATION VALVE (SEE NOTE 2)
K	BALANCING VALVE (SEE NOTE 2)
	UNION
⊕ 3"FD"A"	FLOOR DRAIN(S) SIZE AND TYPE
	EXTERIOR CLEANOUT AND SIZE
	WALL CLEANOUT AND SIZE
4"FCO	FLOOR CLEANOUT AND SIZE
\boxtimes	FLOOR SINK
•	SHOCK ABSORBER
+ HB → W.HY.	HOSE BIBB OR WALL HYDRANT (SEE SPECS)
P-1	PLUMBING FIXTURE NUMBER
\bigcirc	DRAWING KEY NOTE
	POINT OF CONNECTION
I.E. 98'-0"	INVERT ELEVATION DESIGNATION

5

WATER HAMMER ARRESTOR SCHEDULE

MARK	A	В	С	D	E	F
MAXIMUM FIXTURE UNITS	11	32	60	113	154	330
MAXIMUM PRESSURE RATING	65 PSI					
NOTES:						
1. WHEN WORKING WATER PRESSURE EXCEEDS 65 PSI, USE NEXT LARGEST SIZE.						

MAXIMUM PIPING LENGTH COVERED BY ONE ARRESTOR SHALL BE 20 LINEAR FEET.

SIZING AND PLACEMENT SHALL BE IN ACCORDANCE WITH PDI STANDARD PDI-WH 201.

WTI WATER TECHNOLOGY INC.

Engineer-of-Record FL. PE No. CALEB FREEMAN 74604

ARCHITECT/ENGINEERS:



3603 NW 98TH ST, SUITE B Gainesville, florida 32606 PH: (352) 474-6124 FAX: (352) 474-6324 CERT. OF AUTH: FL #26693 EXPIRES: 02/28/2015 AKEA PROJEĆT NO: 053–13

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9

GENERAL NOTES:	

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.

- CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALL ON THE SITE.
- 3. ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED.
- 4. VENT PIPING SHOWN ON FLOOR PLANS IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
- 5. VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- 6. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- 7. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 8. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- 10. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
- 12. CHANGES IN THE DIRECTION OF SANITARY AND STORM DRAIN PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E. USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF A SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- 13. CONTRACTOR SHALL COMPLETE ALL UTILITY WORK ACCORDING TO VA SPECIFICATIONS; CONTRACTOR SHALL GIVE 24 HOURS NOTICE TO THE VA AND THE APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- 14. ALL SANITARY, STORM AND WATER SUPPLY LINES SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- 15. WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES WITH LESS THAN 8" MINIMUM VERTICAL CLEARANCE. THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (10' EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.
- 16. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TRAPS AND PRIMER FITTINGS UNLESS NOTED OTHERWISE.
- 17. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED, OR IN MECHANICAL ROOMS.
- 18. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE FLOORS CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION TYPES.
- 19. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS: SIOUX CHIEF OR PRECISION PLUMBING PRODUCTS.
- 20. FURNISH AND INSTALL HOSE BIBBS AND/OR WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS.
- 21. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- 22. ALL VENTS THROUGH ROOF SHALL BE MIN.10'-0" FROM ANY AIR INTAKES. 23. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR
- METALS. 24. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL REDUCED PRESSURE BACKFLOW PREVENTERS, AS REQUIRED BY CODE.
- 25. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
- 26. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL UTILITIES COMPANY.
- 27. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL, SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.
- 28. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
- 29. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- 30. FOR EXACT LOCATION OF ROOF DRAINS SEE ARCHITECTURAL DRAWINGS.
- 31. COORDINATE PLUMBING SYSTEM INSTALLATION WITH EXISTING CONDITIONS. VISIT SITE PRIOR TO BID AND INVESTIGATE REQUIREMENTS FOR INSTALLATION. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 32. COORDINATE ALL PIPING WITH EXISTING ROOF DRAINS, LEADERS, AND OTHER EXISTING WORK. OFFSET AS REQUIRED TO AVOID INTERFERENCES. INDICATE INTERFERENCES AND MEANS TO OVERCOME IN THE SHOP DRAWINGS.
- 33. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND COORDINATION WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO STRUCTURAL, LIGHTING, ELECTRICAL, PLUMBING, AND OTHER EXISTING AND NEW WORK. VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO PURCHASING EQUIPMENT. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING. PROVIDE ADDITIONAL MATERIALS AND LABOR TO RELOCATE OR REPLACE MECHANICAL WORK AS REQUIRED TO ALLOW SPACE FOR THE WORK OF ALL TRADES.
- 34. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED.
- 35. THE WORK INCLUDES CONNECTION TO AN EXISTING PLUMBING SYSTEMS ON THE PROJECT. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ANY LABOR AND MATERIALS NECESSARY TO UNCOVER, TRACE, TEST, FIELD VERIFY, AND MEASURE ANY EXISTING SYSTEMS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT.
- 36. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS.

APPROVED) FO
	Project Num

Mechanical Legend

Drawing Title

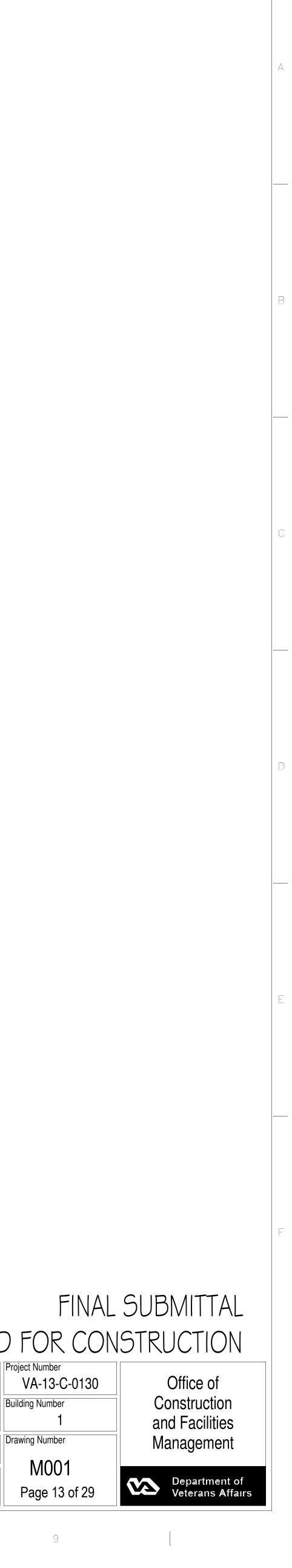
Approved: Project Director

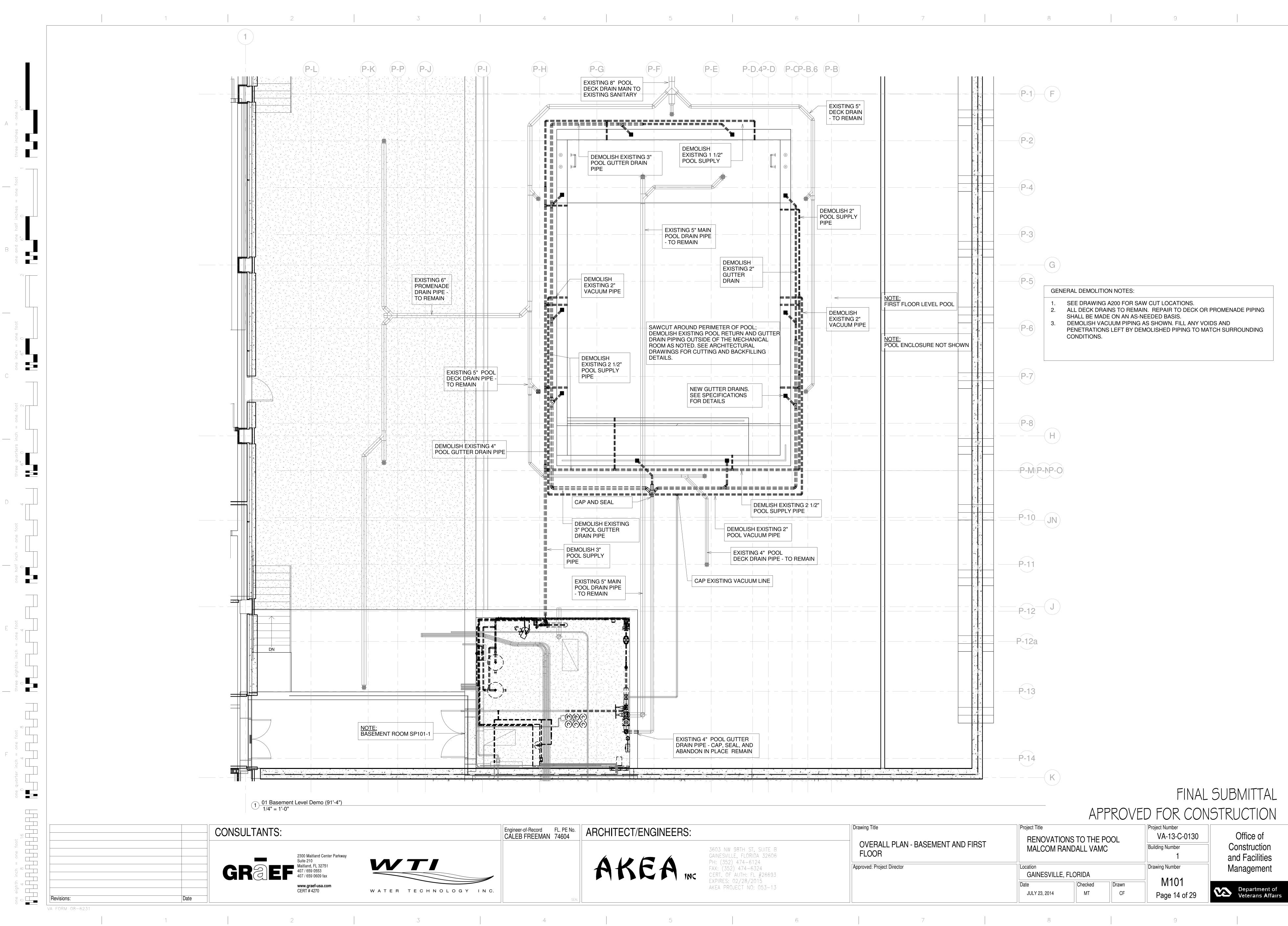
Location
GAINESVILLE, FL
-

Project Title

RENOVATIONS TO THE POOL

MALCOM RANDALL VAMC

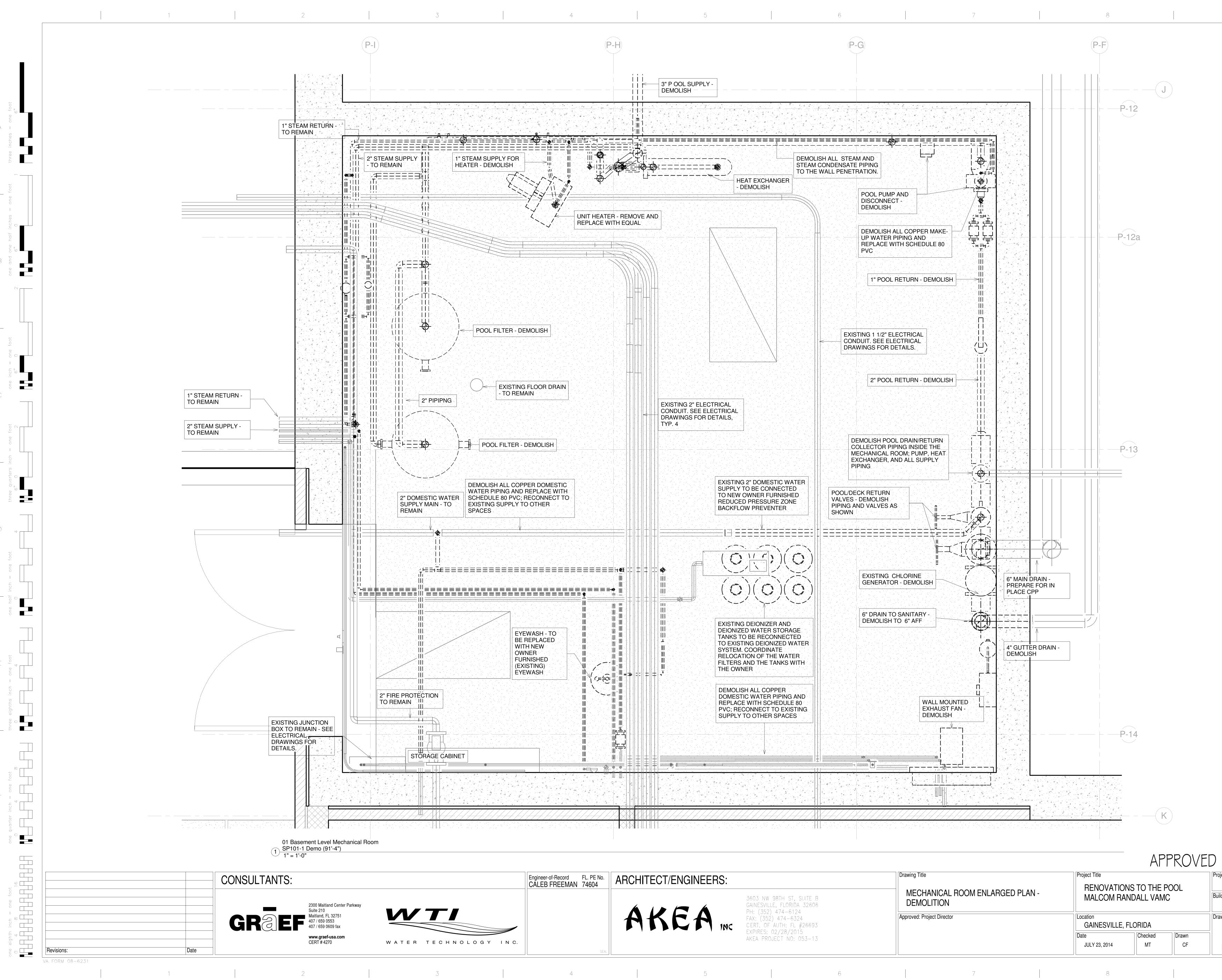








Drawing Title	Project Title RENOVATIONS TO THE POOL		Project Number	
			VA-13 Building Numb	
OVERALL PLAN - BASEMENT AND FIRST FLOOR	MALCOM RANDALL VAMC			
Approved: Project Director				Drawing Numl
GAINESVILLE, FLORIDA			M1	
	Date	Checked	Drawn	
	JULY 23, 2014	MT	CF	Page 2



Drawing Title	Project Title RENOVATIONS TO THE POOL MALCOM RANDALL VAMC			Project
MECHANICAL ROOM ENLARGED PLAN - DEMOLITION				Building
Approved: Project Director				
	Date	Checked	Drawn	
	JULY 23, 2014	МТ	CF	Pa

