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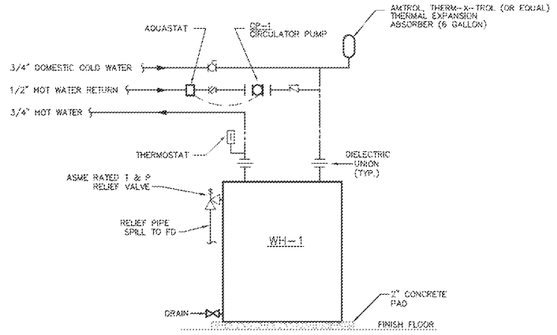
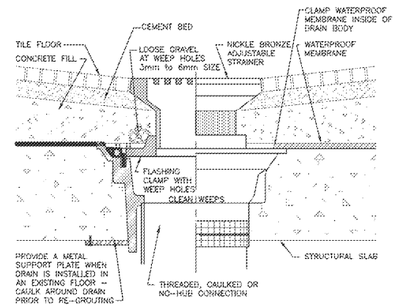


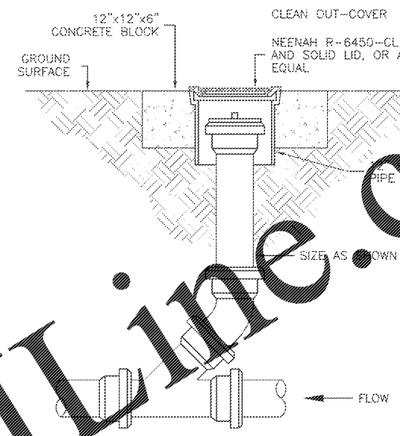
ELECTRIC WATER HEATER DETAIL

N.T.S.



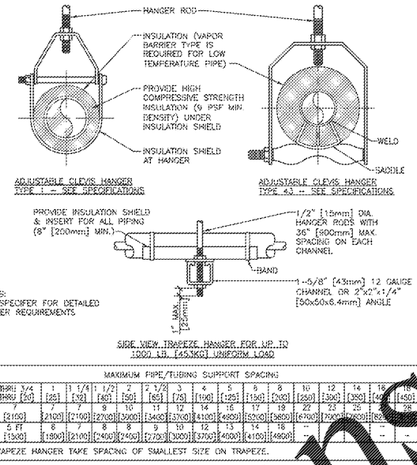
FLOOR DRAIN DETAIL

N.T.S



TYPICAL CLEAN-OUT DETAIL

NTS



SIDE VIEW TRAPEZE HANGER FOR UP TO
1000 LB. [453KG] UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING

NOM. SIZE		IN. [mm]	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]	12 [300]	14 [350]	16 [400]	18 [450]	20 [500]	24 [600]
PIPE	FT.	[mm]	7 [2100]	7 [2100]	7 [2100]	8 [2700]	9 [3000]	10 [3400]	11 [3700]	12 [4100]	14 [4600]	15 [5000]	17 [5800]	19 [6700]	22 [7000]	23 [7600]	25 [8200]	26 [8600]	28 [9200]	32 [10600]
TUBING	FT.	[mm]	5 FT [1500]	6 [1800]	7 [2100]	8 [2400]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	13 [4000]	14 [4100]	16 [4800]	--	--	--	--	--	--	--

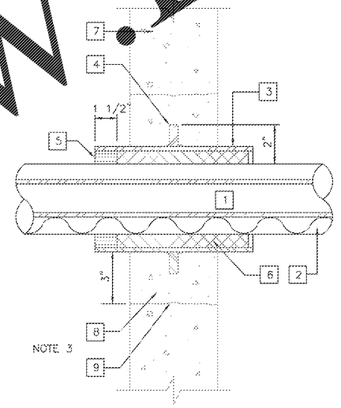
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

PIPE HANGERS

NTS

LEGEND:

1. PIPE
2. INSULATION (AS APPLICABLE) WITH HEAVY DUTY (#16 MSG) ALUMINUM SHEAT PROTECTION.
3. GALVANIZED STEEL PIPE SLEEVE 1" INTERIOR DIAMETER LARGER THAN PIPE AND INSULATION.
4. GALV. METAL RING WELDED TO SLEEVE.
5. SILICON FIRE STOP SEALANT (DOW CORNING 2000)
6. CAULKING
7. CONCRETE OR CONCRETE FILLED MASONRY WALL.
8. NONSHRINK GROUT
9. EPOXY BONDING AGENT



PIPE SLEEVE THRU WALL

NTS

NOTES:

1- PIPE SHALL BE SUPPORTED AT BOTH SIDES OF WALL TO AVOID ANY STRESS ON SLEEVE AND/OR INSULATION.

2- ALL WELDED JOINTS SHALL BE TREATED WITH A COMPATIBLE ANTI-CORROSION COATING FOR GALVANIZED STEEL SURFACES.

3- INSTALL PIPE SLEEVE WITH RING BEFORE CONCRETE POURING. FOR MANSONRY WALLS AND EXISTING WALLS PROVIDE [8] AND [9].

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FINAL DESIGN
APPROVED FOR CONSTRUCTION

Revisions:	Date

CONSULTANTS:

Affiliated Engineers

Affiliated Engineers SE, Inc
Tioga Town Center
12921 SW 1st Road Ste 255
Gainesville, Florida 32695
Tel 352.376.5690 Fax 352.376.5679
CA-5140

James E. Williams, State of Florida, Professional Engineer, License No. 51045.
This item has been electronically signed and sealed by James E. Williams, PE. On 3/9/2018 using a Digital Signature.
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ENGINEER - OF - RECORD
JAMES E. WILLIAMS
FL. P.E. NO. 51045

ARCHITECT/ENGINEERS:

AKEA INC.
3803 NW 98th Street, Suite B
Gainesville, FL 32606
Phone: (352) 474-6124
Fax: (352) 553-4437
CDA: FL #26693
AKEA Project No. 083-14

Drawing Title: PLUMBING DETAILS	Project Title: REPLACE BOILERS - FCA D, ENERGY AT THE MALCOM RANDALL VAMC	Project Number: 573-14-600	Office of Construction and Facilities Management
Approved: Project Director	Location: GAINESVILLE, FLORIDA	Building Number:	
	Date: MARCH 9, 2018 / Checked: JBN / Drawn: RMD	Drawing Number: PL700 99 OF 127	Department of Veterans Affairs

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