

January 9, 2012

Ms. Cindy Mulkey
Florida Department of Environmental Protection
Siting Office
2600 Blair Stone Road
Tallahassee, Florida 32399-3000

Re: Seminole Electric Cooperative, Inc.
Seminole Generating Station, Putnam County, Florida
Power Plant Certification No. PA78-10
Post-Certification Amendment to Application

Dear Ms. Mulkey:

Pursuant to Section 403.5113(1)(a), Florida Statutes, and Rule 62-17.205, Florida Administrative Code, please accept this letter and attachment hereto as a post-certification amendment to the Seminole Electric Cooperative, Inc. ("Seminole") Site Certification Application ("Application") for the Seminole Generating Station in Putnam County, Florida. This post-certification amendment to the Application addresses a proposed addition to the existing potable water system, which is located on the certified site.

The proposed addition is a forced draft aerator system, which will increase H₂S (gaseous) removal. This system will not only provide an aesthetic benefit but will also reduce the amount of chlorine injected into the system and reduce turbidity. As you can see from Figure 1 (Attachment A), the new system will augment our current system and will not require any new groundbreaking or creation of impervious surface. To eliminate any chance of H₂S exposure, the degasifier unit will be placed on a platform, increasing the elevation of the degasifier vent to 33ft above ground.

Neither installation nor operation of the proposed aerator will cause any adverse environmental impacts or require any changes to the existing Conditions of Certification for the Seminole Generating Station.

If the Department concurs, Seminole requests that this letter and its attachments be forwarded to all appropriate agencies and parties to the original certification proceeding as a permissible post-certification amendment to the Application. If you or any of the parties have any questions or concerns, or require additional information, please contact Seminole's Manager of Environmental Affairs, Mike Roddy, at (813) 963-0994, ext. 1224.

Ms. Cindy Mulkey
January 5, 2010
Page 2

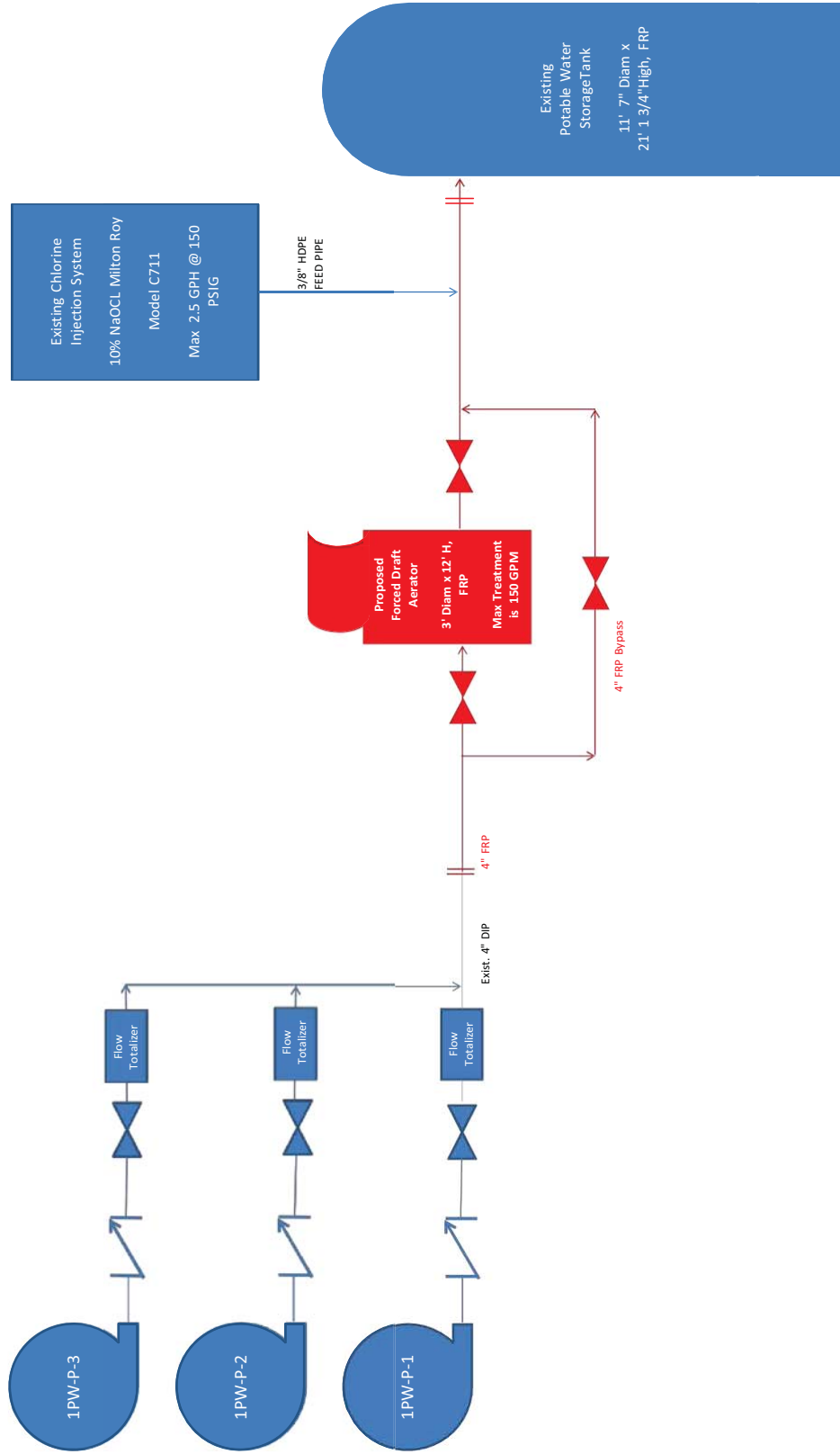
Sincerely,

A handwritten signature in black ink, appearing to read "Mike Roddy", with a long, sweeping horizontal stroke extending to the right.

Mike Roddy
Director of Environmental Affairs
Seminole Electric Cooperative, Inc.

cc: Justin Gostnell, Seminole
Robert Yarbrough, Seminole
Toni Sturtevant, Esq., DEP
Jim Alves, HG&S

Attachment A: Proposed Aeration Schematic



FABRICATION DRAWINGS

3'-0" DIA. X 12'-0" HT. FIBERGLASS FORCED DRAFT DEGASIFIER SYSTEM SEMINOLE ELECTRIC COOPERATIVE

SEPTEMBER 2011

INDEX OF DRAWINGS

DWG NO.	SHT NO.	TITLE	DRAWING NUMBER
GENERAL			1
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PARTICULARS			1
D-1	1	DEGASIFIER UNIT - FRONT & SIDE ELEVATIONS	D-1
D-2	2	DEGASIFIER UNIT - INLET DISTRIBUTION, EXHAUST, DEMISTER & ORIENTATION	D-1
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D-4	4	DEGASIFIER UNIT - BLOWER & BLOWER DUCT - DISTRIBUTION MANIFOLD/NOZZLE LAYOUT PLAN	D-1

PREPARED BY

De Loach Industries, Inc.

818 Cattlemen Road, Sarasota Florida 34232
PH. (941) 371-4995 • FAX (941) 377-2649

<http://www.wesinc.com>

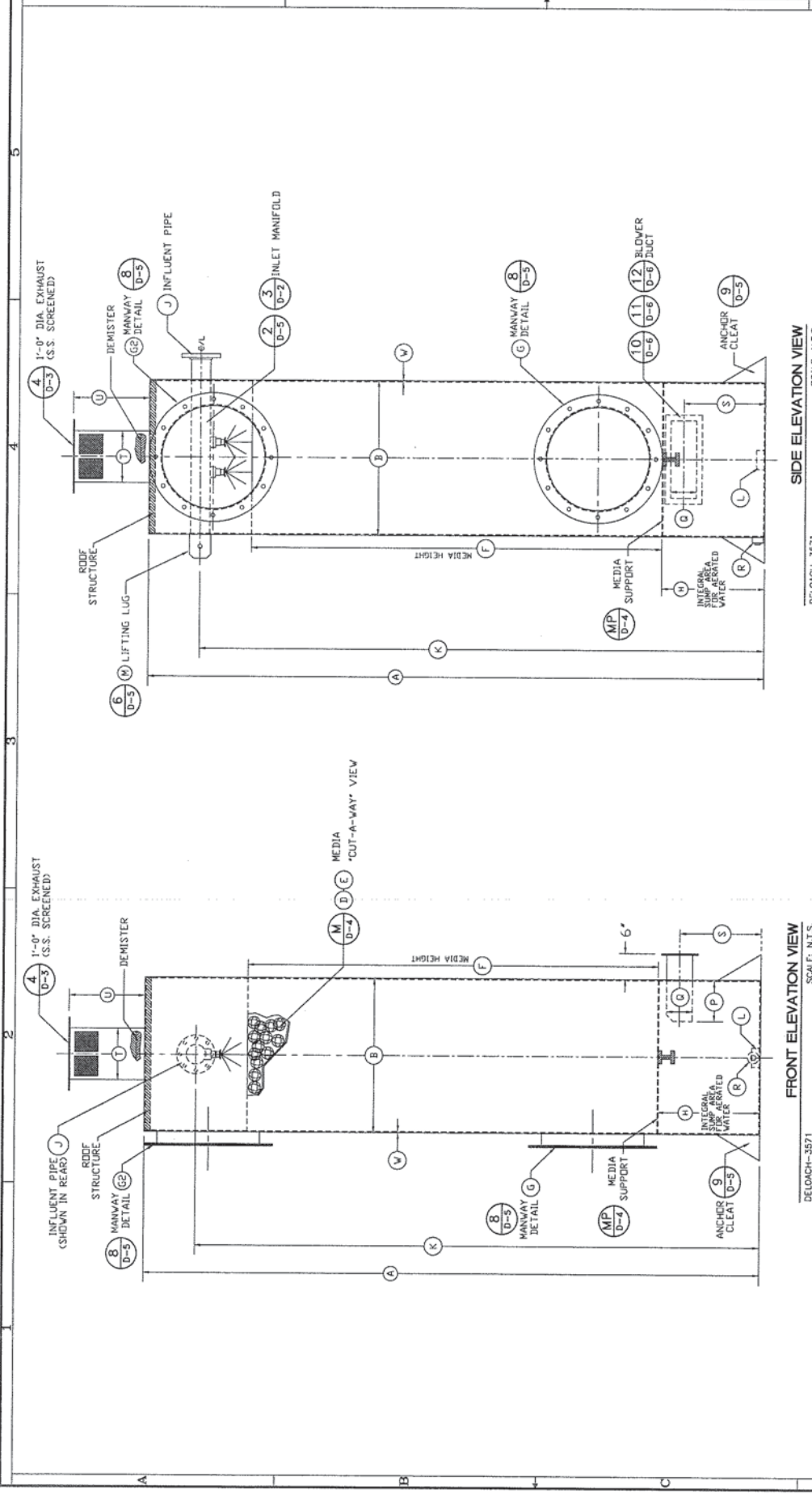
REV	BY	DESCRIPTION	DATE

DeLoach Industries, Inc.
 410 California Road
 Houston, Texas 77058
 Tel (713) 371-4800
 Fax (713) 371-4848

DEGASIFIER UNIT - FRONT & SIDE ELEVATIONS
 FORCED DRAFT DEGASIFIER SYSTEM - FRP MATERIAL
 3'-0" DIA. X 12'-0" HT.
 SEMINOLE ELECTRIC COOPERATIVE -

DESIGNED:	DATE:
M.G.	09/11
DRAWN:	DATE:
M.P.M.	09/11
CHECKED:	DATE:
M.G.	09/11
APPROVED:	DATE:
M.G.	09/11

SCALE:	N.T.S.
CAD FILE:	3571.DWG
DRAWING NO.:	D-1
SHEET NO. OF:	2 5

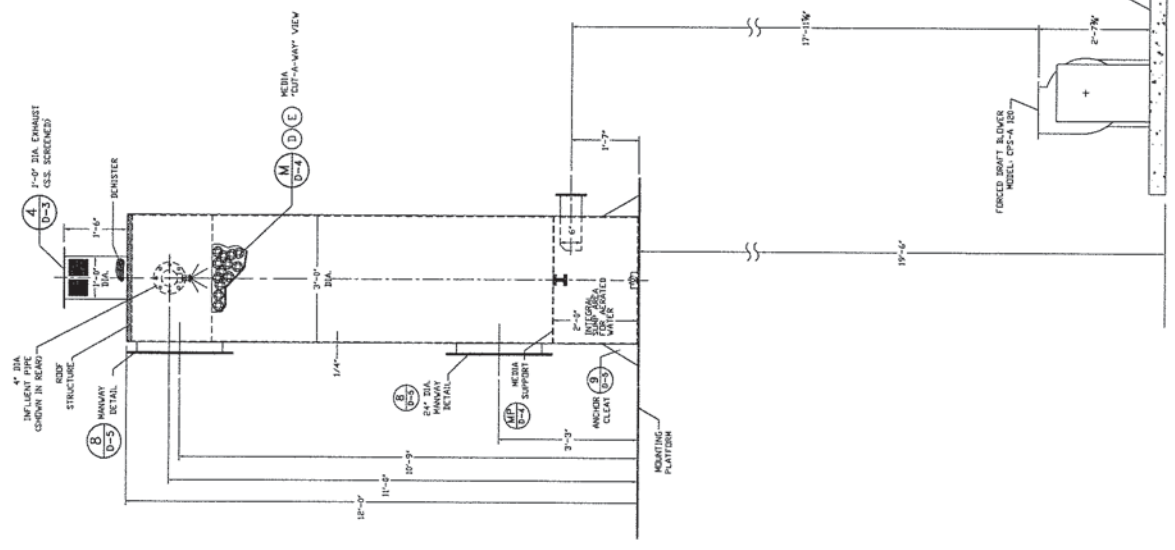


FRONT ELEVATION VIEW SCALE: N.T.S.
SIDE ELEVATION VIEW SCALE: N.T.S.

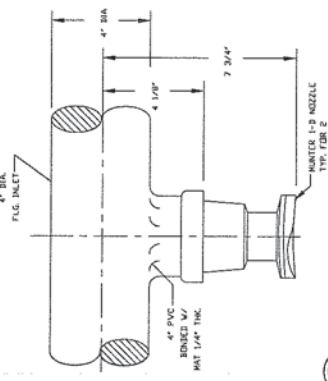
FORCED DRAFT ROUND DESIGN											
STANDARD MODELS	HEIGHT (FT.)	DIA. (FT.)	MAX. FLOW RATE (GPM)	MEDIA TYPE - TELLERITES	MEDIA HEIGHT (FT.)	MANWAY ACCESS (1) PORT SIZE	MANWAY ACCESS (2) PORT SIZE	SUMP AREA HEIGHT	SECTION HEIGHT (TYP.)	INFLUENT PIPE SIZE	EFFLUENT PIPE SIZE (1/2 COUPLING)
A	12'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
B	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
C	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
D	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
E	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
F	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
G	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
H	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
I	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
J	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
K	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
L	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
M	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
N	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
O	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
P	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
Q	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
R	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
S	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
T	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
U	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
V	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
W	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
X	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
Y	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"
Z	3'	3'	150	#3 K	8'-0"	24" 8	24" 8	24"	4'	11"	6"

GENERAL NOTES:

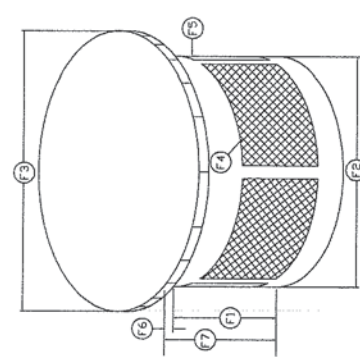
1. BAYFOLD GRAPHIC IS ONLY A GENERAL REPRESENTATION AND ACTUAL NUMBER INFORMATION.
2. SEE DATA TABLE BELOW FOR SPECIFIC INFORMATION.



DEGASIFIER ELEVATION - BLOWER + TRANSITION DUCT
SCALE: N.T.S.
DELOACH-3571

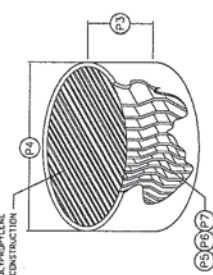


NOZZLE DETAIL
SCALE: N.T.S.
DELOACH-3571
1-D NOZZLES @ 75 GPM EACH
DESIGN FLOW RATE - 150 GPM

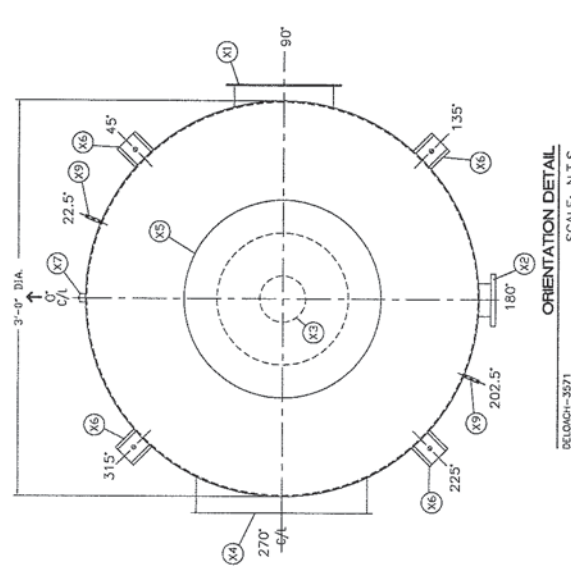


EXHAUST DETAIL
SCALE: N.T.S.
DELOACH-3571

KEY	DESCRIPTION	SIZE/TYPE
F1	EXHAUST - HEIGHT	10"
F2	EXHAUST - DIAMETER	1'-0"
F3	EXHAUST SHIELD - DIA.	2'-0"
F4	EXHAUST SHIELD - THICKNESS	1/4"
F5	EXHAUST MATERIAL	SS-304
F6	EXHAUST TIP - THICKNESS	1/4"
F7	EXHAUST ASSEMBLY HEIGHT	1'-6"



DEMISTER DETAIL
SCALE: N.T.S.
DELOACH-3571



ORIENTATION DETAIL
SCALE: N.T.S.
DELOACH-3571

HEIGHT (FT.)	DIAMETER (FT.)	TRANSITION BLOWER DUCT	INFLUENT PIPE	EFFLUENT PIPE	MEDIA ACCESS PORT	EXHAUST VENT (6\"/>
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DEMISTER DATA											
FIBERGLASS CONSTRUCTION		DEMISTER HOUSING		DEMISTER HOUSING		DEMISTER HOUSING		DEMISTER MATERIAL/NOZEL		POLYPROPYLENE	
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

DeLoach Industries, Inc.
618 Calhoun Road
Baltimore, Maryland 21206
TEL (410) 371-6800
FAX (410) 371-6849

FORCED DRAFT DEGASIFIER, EXHAUST, DEMISTER & ORIENTATION SEMINOLE ELECTRIC COOPERATIVE -
3'-0" DIA. X 12'-0" HT.

DESIGNER: M.G. 09/11
DATE: 09/11
CHIEF: M.P.M. 09/11
DATE: 09/11
CHECKER: M.G. 09/11
DATE: 09/11
APPROVED: M.G. 09/11
DATE: 09/11

SCALE: 1:20
CAD FILE: 3571.DWG
DRAWING NO.: D-2
SHEET NO.: 3
OF: 5

PROJECT NAME: SEMINOLE ELECTRIC COOPERATIVE -
3'-0" DIA. X 12'-0" HT.

DATE: 09/11
DESIGNER: M.G.
CHIEF: M.P.M.
CHECKER: M.G.
APPROVED: M.G.

DATE	DESCRIPTION	REV BY

De Loach Industries, Inc.
 818 California Road
 Lakewood, Florida 33422
 TEL (407) 377-4900
 FAX (407) 377-4940

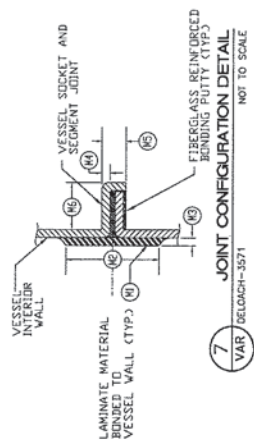
3'-0" DIA. X 12'-0" HT.
 SEMINOLE ELECTRIC COOPERATIVE -
 FORCED DRAFT - DEGASIFIER SYSTEM - FRP MATERIAL
 PROJECT: 3571.DWG
 SHEET TITLE: DEGASIFIER UNIT - LIFTING LUG, MEDIA, JOINT, CLEAT & MANWAY

DATE	DATE	DATE	DATE
09/11	09/11	09/11	09/11
DESIGNED: M.G.	DRAWN: M.P.M.	CHECKED: M.G.	APPROVED: M.G.

SCALE: N.T.S.	CAD FILE: 3571.DWG	DRAWING NO. D-3	SHEET NO. 4	OF 5
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JOINT CONFIGURATION DETAIL

KEY	DESCRIPTION	SIZE/TYPE
M1	LAMINATE MATERIAL	FABMAT
M2	LAMINATE MATERIAL WIDTH	8"
M3	LAMINATE MATERIAL THICKNESS	3/8"
M4	VESSEL SOCKET LIP HEIGHT	1/4"
M5	VESSEL SOCKET LIP WIDTH	3/4"
M6	VESSEL SOCKET LIP WIDTH	1-1/2"



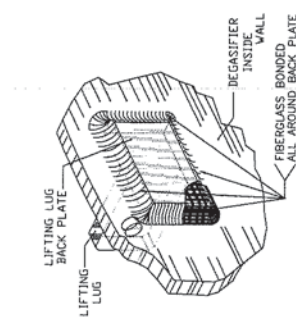
JOINT CONFIGURATION DETAIL

KEY	DESCRIPTION	SIZE/TYPE
M1	LAMINATE MATERIAL	FABMAT
M2	LAMINATE MATERIAL WIDTH	8"
M3	LAMINATE MATERIAL THICKNESS	3/8"
M4	VESSEL SOCKET LIP HEIGHT	1/4"
M5	VESSEL SOCKET LIP WIDTH	3/4"
M6	VESSEL SOCKET LIP WIDTH	1-1/2"

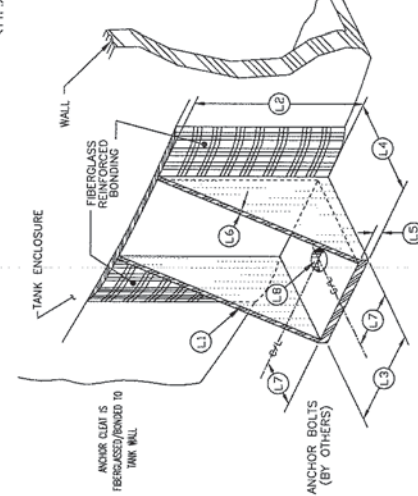
LIFTING LUG DATA (HORIZONTAL TYPE)

KEY	DESCRIPTION	SIZE/TYPE
J1	LIFTING LUG & BACK PLATE MATERIAL	8"
J2	BACK PLATE LENGTH	12"
J3	BACK PLATE THICKNESS	1"
J4	BACK PLATE THICKNESS	5"
J5	LUG HEIGHT	6"
J6	LUG LENGTH (BETWEEN MOUNTING)	5-1/2"
J7	LUG THICKNESS	1"
J8	LUG HOLE DIAMETER	3/4"
J9	LUG HOLE DISTANCE	12" - (4x-6" ELEVATION)
J10	TOP TO C/L DISTANCE	12"
J11	LUG CORNER	2"
J12	NOT REQUIRED	

PRE-FIBERGLASS BONDED 1/2" PLATE IS INSERTED THROUGH SLOT CUT IN DEGASIFIER WALL AND FIBERGLASS BONDED IN PLACE INSIDE AS SHOWN BELOW.



HORIZONTAL LIFTING LUG DETAIL (FOR CONST.)
 NOT TO SCALE



ANCHOR CLEAT DETAIL (CONST.)
 NOT TO SCALE

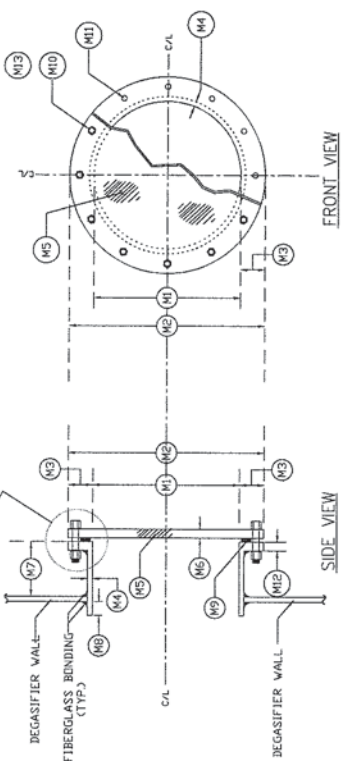
ANCHOR CLEAT DATA

KEY	DESCRIPTION	SIZE/TYPE
A1	ANCHOR CLEAT MATERIAL	1"
A2	CLEAT HEIGHT	10"
A3	CLEAT WIDTH	6"
A4	CLEAT DEPTH	6"
A5	CLEAT BASE THICKNESS	1/2"
A6	CLEAT BRACE THICKNESS	1/2"
A7	BOLT HOLE C/L DIST.	3"
A8	BOLT HOLE DIAMETER	1"
A9	NO. OF CLEATS REQUIRED	4

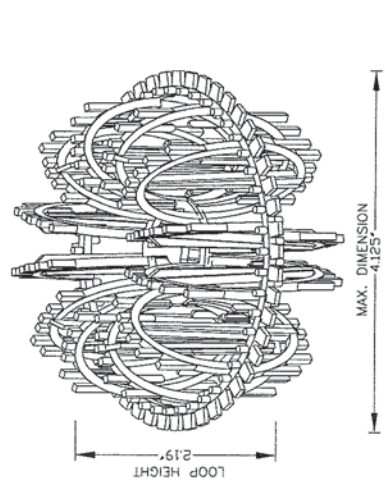
ANCHOR CLEAT DATA

ROUND MANWAY DETAIL

KEY	DESCRIPTION	SIZE/TYPE (24" DIA) TYP. FOR 2
M1	MANWAY OPENING DIAMETER	24"
M2	MANWAY COVER DIAMETER	24"
M3	MANWAY FLANGE WIDTH	2"
M4	MANWAY WALL THICKNESS	1/4"
M5	COVER MATERIAL	SS/AL
M6	COVER THICKNESS	3/8"
M7	FLANGE LENGTH	3"
M8	FITTING DEPTH	1"
M9	FLANGED GASKET	7/8" RED RUBBER (SRLB)
M10	BOLT TYPE/SIZE AND	1/2" SS #316 3/8"
M11	BOLT HOLE DIAMETER	7/16"
M12	MANWAY FLANGE LIP THICKNESS	3/8"
M13	NUMBER OF MANWAYS	2



24" / 36" ROUND MANWAY DETAILS
 NOT TO SCALE



MEDIA DETAIL

KEY	DESCRIPTION	SIZE/TYPE
M1	MANWAY OPENING DIAMETER	24"
M2	MANWAY COVER DIAMETER	24"
M3	MANWAY FLANGE WIDTH	2"
M4	MANWAY WALL THICKNESS	1/4"
M5	COVER MATERIAL	SS/AL
M6	COVER THICKNESS	3/8"
M7	FLANGE LENGTH	3"
M8	FITTING DEPTH	1"
M9	FLANGED GASKET	7/8" RED RUBBER (SRLB)
M10	BOLT TYPE/SIZE AND	1/2" SS #316 3/8"
M11	BOLT HOLE DIAMETER	7/16"
M12	MANWAY FLANGE LIP THICKNESS	3/8"
M13	NUMBER OF MANWAYS	2

MEDIA DETAIL
 NOT TO SCALE

DATE	7/11/97
REV BY:	JCB
DESCRIPTION	BLOWER DATA
DATE	
DATE	

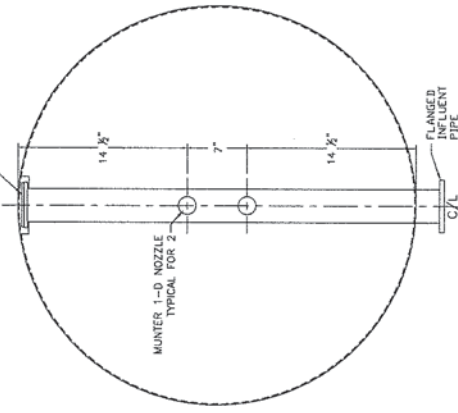
DeLoach Industries, Inc.
 616 Callahan Road
 Raleigh, North Carolina 27603
 TEL (919) 577-1000
 FAX (919) 577-0569

SEMINOLE ELECTRIC COOPERATIVE -
 3'-0" DIA. X 12'-0" HT.
 FORCED DRAFT DEGAISIER UNIT - BLOWER & BLOWER DUCT - DISTRIBUTION MANFOLD/NOZZLE LAYOUT PLAN

DESIGNED	M.G.	08/11
DRAWN	M.P.M.	09/11
CHECKED	M.G.	09/11
APPROVED	M.G.	09/11

SCALE:	N.T.S.
CAD FILE:	3571.DWG
DRAWING NO.	D-4
SHEET NO.	5
OF	5

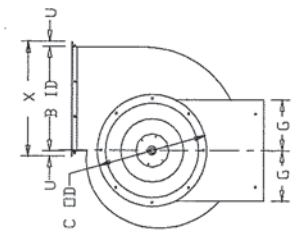
MANFOLD IS
 PVC BONDED W/
 MATERIAL 1/4" THK.



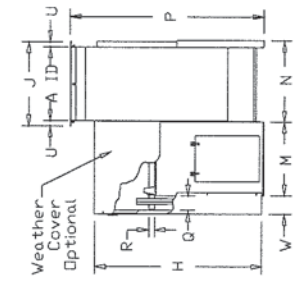
2 DISTRIBUTION MANFOLD/NOZZLE LAYOUT PLAN
 SCALE: N.T.S.

BLOWER DIMENSIONS (inches)						
A	9-3/16	M	13-1/8	Y	8-5/8	
B	13-1/8	N	11	Z	5-1/2	
C	16-1/8	P	31-3/8			
D	18	Q	3			
E	22-13/16	R	1			
F	9-3/4	S	9/16			
G	9-3/8	T	3/4			
H	26-1/4	U	1-5/8			
J	12-7/16	V	8-1/16			
K	10	W	4-1/16			
L	11-7/8	X	16-1/4			

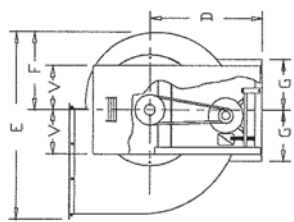
BLOWER SPECIFICATIONS
 BLOWER: CPS-A 120
 MFR: LOREN COOK
 CFM: 601 @ 1" S.P.
 ELECTRIC: 230 VOLT, 3ø, 3/4 HP.
 ENCLOSURE: TEFC
 FAN RPM: 1,512
 DISCHARGE: UB -(1 @ CW ROTATION)



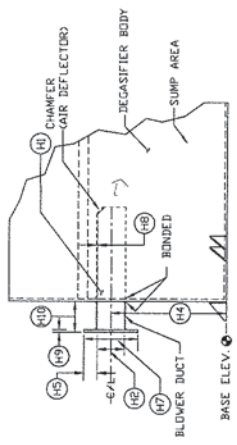
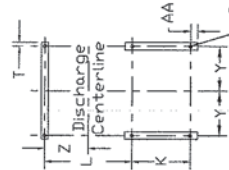
15 INLET SIDE BLOWER DETAIL - INLET SIDE VIEW
 DELOACH-3571 NOT TO SCALE



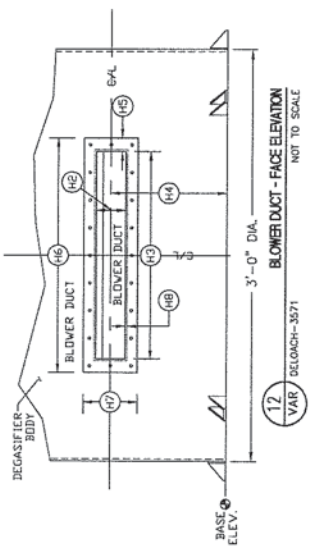
14 BLOWER DETAIL - PLAN VIEW + BOLT HOLE LAYOUT
 DELOACH-3571 NOT TO SCALE



13 BLOWER DETAIL - HOUSING SIDE VIEW
 DELOACH-3571 NOT TO SCALE



11 BLOWER DUCT - SIDE ELEVATION
 DELOACH-3571 NOT TO SCALE



12 BLOWER DUCT - FACE ELEVATION
 DELOACH-3571 NOT TO SCALE

FORCED DRAFT BLOWER DUCT DATA									
DUCT MATERIAL:	H1	FRP							
BLOWER DUCT OPENING HEIGHT:	H2	6'							
BLOWER DUCT OPENING WIDTH:	H3	1'-8"							
BLOWER DUCT HEIGHT TO C/L:	H4	1'-7"							
FLANGE LIP WIDTH:	H5	2"							
DA FLANGE WIDTH:	H6	2'-0"							
DA FLANGE HEIGHT:	H7	10"							
DUCT WALL THICKNESS:	H8	1/4"							
FLANGE LIP THICKNESS:	H9	1/4"							
O/S LENGTH:	H10	6'							
TO FLANGE FACE:	H11	1/4"							
BOLT SIZE/TYPE:	H12	#36 SS							
BOLT HOLE CENTER TO CENTER:	H12								

10 BOLT HOLE DETAIL
 DELOACH-3571 NOT TO SCALE