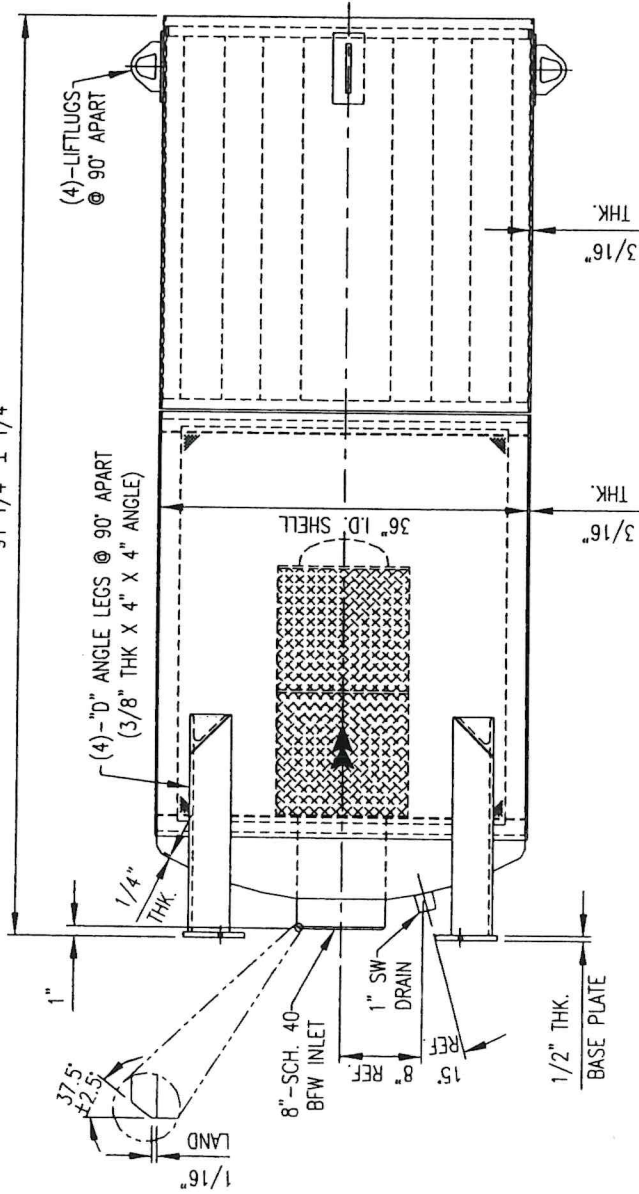
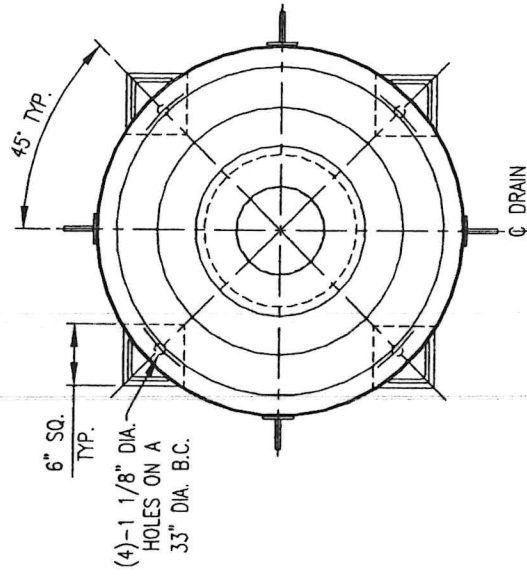


91 1/4" ± 1/4"



ELEVATION VIEW



TOP PLAN VIEW

JOB I.D.#'S	CUST. P.O.#	QTY/SET	TAG #
100059-D-0-0	20405	ONE (1)	2-445-SI-2713
100059-D-0-0	20405	ONE (1)	3-445-SI-3713

OPERATING DATA									
STEAM RATE (combined)	76,570	LBS./HR.							
UPSTREAM PRESSURE	57	PSIG							
UPSTREAM TEMPERATURE	582	°F							
DOWNSTREAM PRESSURE	ATM								
SILENCER EXIT VELOCITY	13.693	FEET/MINUTE							
SILENCER PRESSURE DROP	17	PSI							

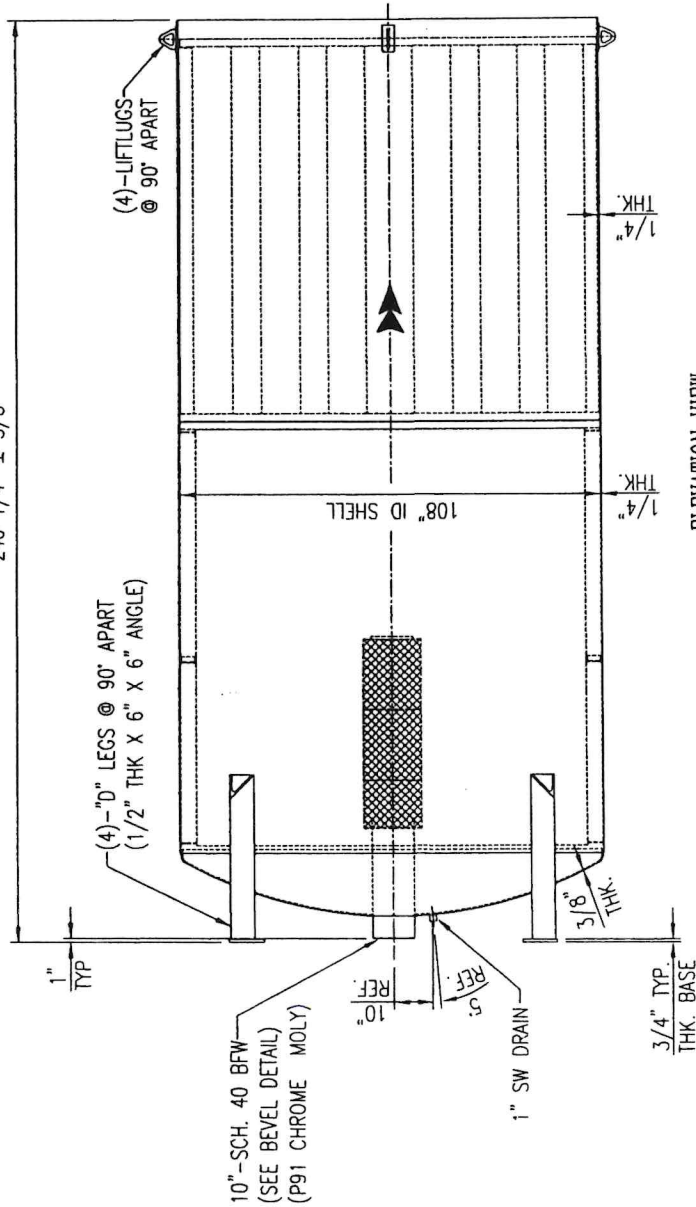
ACOUSTIC PERFORMANCE:									
OCTAVE BAND CENTER FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
ESTIMATED UNSILENCED NOISE AT 3 ft (dB)	66	83	95	107	115	120	122	120	125.7
OIL OF TH-26-0 (dB)	-4	-9	-18	-33	-38	-42	-44	-44	
ESTIMATED SILENCED NOISE AT 3 ft (dBA)	62	74	77	74	77	78	78	76	85.0

NOTES:
 1. MATERIALS OF CONSTRUCTION: ALL CARBON STEEL
 2. W/ MINERAL WOOL PACKING
 3. BLAST: PER SSPC-SP-6
 4. PRIMER: CARBOLINE CARBOZINC 11 (3.0 MILS DFT)
 5. TOP COAT: CARBOLINE 4700 ALUMINUM (1.5 MILS DFT)
 6. TAG: PD / SEE TABLE
 7. ITEM / SEE TABLE

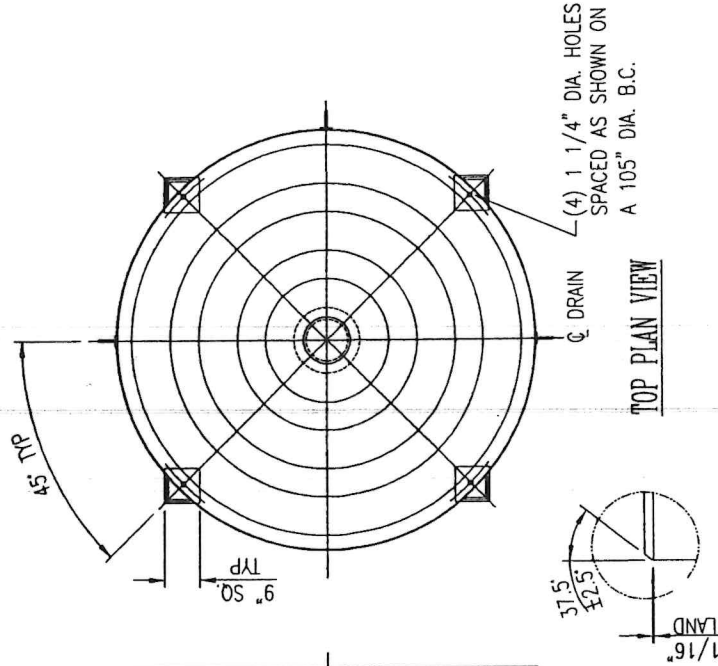
DRAWING CERTIFIED
 FOR NOOTER/ERIKSEN
 COGENERATION SY
 P.O. No. 20405
 QTY. REQ'D TWO (2)
 EST. WT. EA. 1,401 LBS.
 By: J. WILHELM Date: 06/18/04

LP START-UP VENT SILENCER		BURGESS-MANNING, INC. Subsidiary of Nitram Energy, Inc.	
DESIGN PRESSURE	ATM	CHKD	JWW
" TEMPERATURE	650°F	APVD	JJM/DUP
INLET DESIGN PRESSURE 72 PSIG		TH-26-2 STEAM VENT SILENCER	
" TEMPERATURE 670°F		DRWN	RJB
		DATE	02/13/04
		CHKO	JWW
		DATE	06/18/04
		SIZE	SEE TABLE
		DRAWING No.	S55-4502-002
		REV.	0
		SCALE	NONE

REV 1
 JRP 2-28-05



ELEVATION VIEW



BEVEL DETAIL

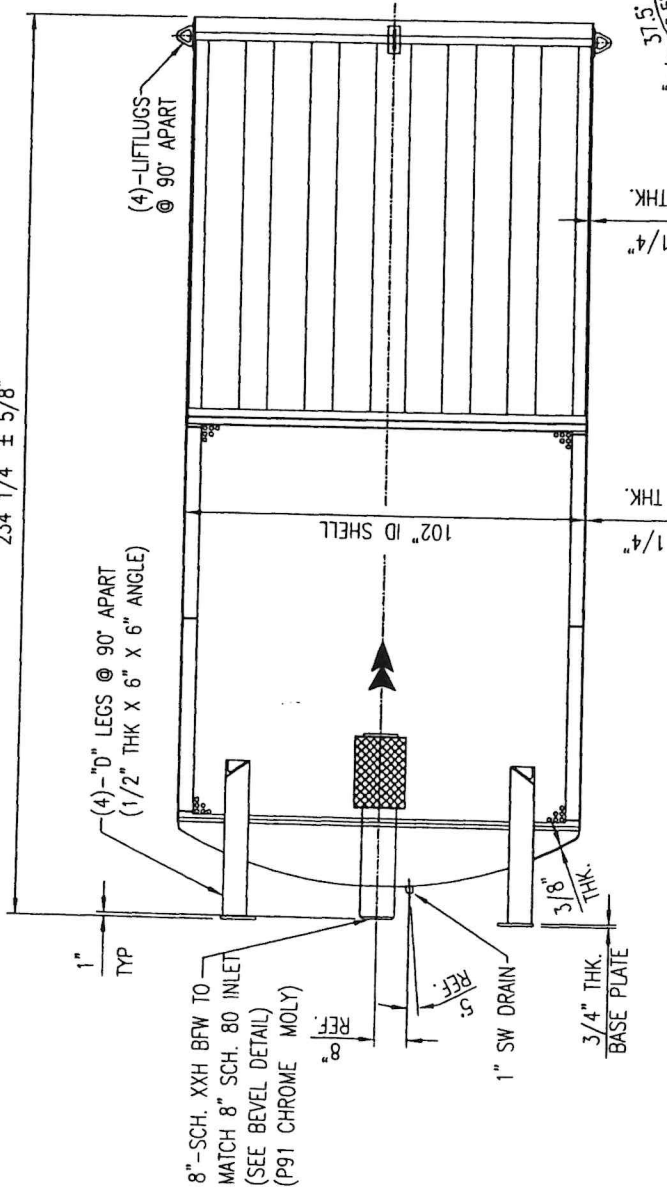
JOB I.D.#'S	CUST. P.O.#	QTY/SET	TAG #
100059-C-0-0	20405	ONE (1)	2-442-SI-2720
100059-C-0-0	20405	ONE (1)	3-442-SI-3720

100039-C-0-0	20403	ONE (1)	3-442	31	3120				
OPERATING DATA									
STEAM RATE (combined)	505.714	LBS./HR.							
UPSTREAM PRESSURE	188	PSIG							
UPSTREAM TEMPERATURE	1050	°F							
DOWNSREAM PRESSURE	ATM								
SILENCER EXIT VELOCITY	14.613	FEET/MINUTE							
SILENCER PRESSURE DROP	56	PSI							
ACOUSTIC PERFORMANCE:									
OCTAVE BAND CENTER FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
ESTIMATED UNSILENCED NOISE AT 3 ft (dBA)	76	91	101	111	117	122	125	127	129.9
DNL OF TH-82-0 (dB)	-8	-15	-27	-39	-43	-45	-47	-48	
ESTIMATED SILENCED NOISE AT 3 ft (dBA)	68	76	74	72	74	77	78	79	84.8

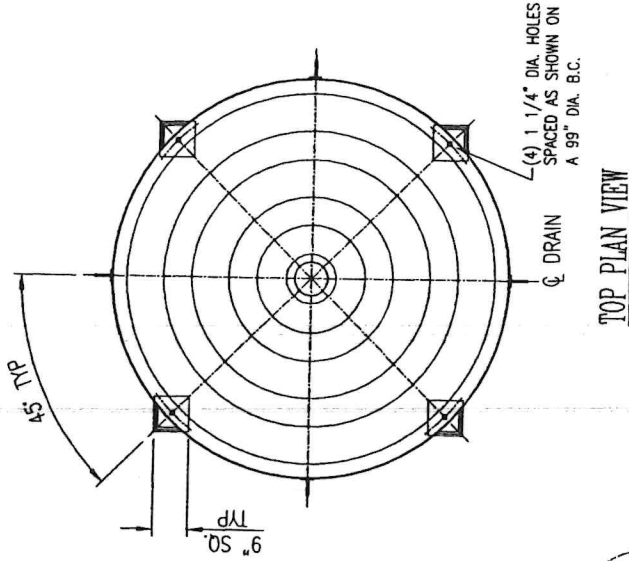
DRAWING CERTIFIED FOR NOOTER/ERIKSEN COGENERATION SY P.O. No. 20405 QTY. REQ'D TWO (2) EST. WT. EA. 16,712 LBS. By: J. WILHELM Date: 06/18/04		NOTES: 1. MATS OF CONSTRUCTION : ALL CARBON STEEL W/MINERAL WOOL PACKING & CRG-WOLY INLET 2. BLAST: PER SSPC-SP-6 3. PRIMER : CARBONACE CARBOZING 11 (3 MILS DFT) 4. FINISH : THERMALINE 4700 ALUMINUM (1.5 MILS DFT) 5. TAG : PO / SEE TABLE ITEM / SEE TABLE		DESIGN PRESSURE _____ ATM " TEMPERATURE _____ 650°F INLET DESIGN PRESSURE 300 PSIG " " TEMPERATURE 1080°F DRWN CJD DATE 02/16/04 CHKD JWW JOB ID: APVD JJM SEE TABLE Size Drawing No. B \$55-4514-001 0 REV. 1 REPAZED DRAWING NO.: 53-4514-001 06/18/04 CJD/JWW SCALE: NONE PLOT FACTOR 125		RH START-UP VENT SILENCER BURRESS-MANNING, INC. Subsidiary of Nitram Energy, Inc.  TH-82-2 STEAM VENT SILENCER	
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R61
JRPINETA
2-21-2005

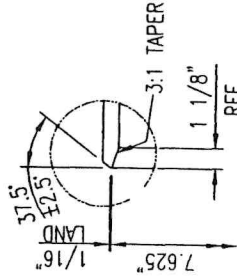
234 1/4" ± 5/8"



ELEVATION VIEW



TOP PLAN VIEW



BEVEL DETAIL

JOB I.D.#'S	CUST. P.O.#	QTY/SET	TAG #
100059-A-0-0	20405	ONE (1)	2-441-SI-2727
100059-A-0-0	20405	ONE (1)	3-441-SI-3727

OPERATING DATA			
STEAM RATE (combined)	458.860	LBS./HR.	
UPSTREAM PRESSURE	952	PSIG	
UPSTREAM TEMPERATURE	1049	°F	
DOWNSTREAM PRESSURE	ATM		
SILENCER EXIT VELOCITY	14.456	FEET/MINUTE	
SILENCER PRESSURE DROP	286	PSI	
ACOUSTIC PERFORMANCE:			
OCTAVE BAND CENTER FREQUENCY (Hz)	63 125 250 500 1K 2K 4K 8K OVERALL		
ESTIMATED UNSILENCED NOISE AT 3 ft (dBA)	76 91 101 111 117 122 125 127 129.9		
OIL OF TH-77-0 (dB)	-8 -15 -27 -39 -43 -45 -47 -48		
ESTIMATED SILENCED NOISE AT 3 ft (dBA)	68 76 74 72 74 77 78 79 84.8		

HP START-UP VENT SILENCER		BURGESS-MANNING, INC. Subsidiary of Nitram Energy, Inc.	
DESIGN PRESSURE	ATM	TH-77-2 STEAM VENT SILENCER	DATE 02/12/04
" TEMPERATURE	650°F	CHKD JWW	JOB ID.
INLET DESIGN PRESSURE 1080 PSIG		APVD SW	SEE TABLE
" TEMPERATURE 1085°F		Drawing No.	REV.
		Size	B
		Scale	S55-4513-002
		Plot Factor	100
		Scale	NONE

- NOTES:
1. MTL'S OF CONSTRUCTION: ALL CARBON STEEL W/MINERAL WOOL PACKING & CRD-MOLT INLET
 2. BLAST: PER SSPC-SP-6
 3. PRIMER: CARBONACE CARBOZINC 11 (3 MILS DFT)
 4. FINISH: THERMALINE 4700 ALUMINUM (1.5 MILS DFT)
 5. TAG: SEE TABLE

DRAWING CERTIFIED
FOR NOOTER/ERIKSEN
COGENERATION SY
P.O. No. 20405
QTY. REQ'D TWO (2)
EST. WT. EA. 13,722 LBS.
By: J. WILHELM Date: 06/18/04

Rev 1
JRP
2-21-2005

