

REV	FE	A	014152-FS-019
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PROJECT: JEA BRANDY
DRAWING NUMBER: 014152-FS-019

BILL OF MATERIAL					
PC.	MK.	QUAN.	DESCRIPTION	MATERIAL	REMARKS
SC	MK014152-19A	400	SHT #12 GA x 5 1/4" x 48"	SS409	BEND
SC	MK014152-19B	408	SHT #12 GA x 5" x 48"	C.S.	BEND

SPECIAL NOTES:
MAT'L LISTED FOR (2) UNITS
(2) UNITS REQ'D.

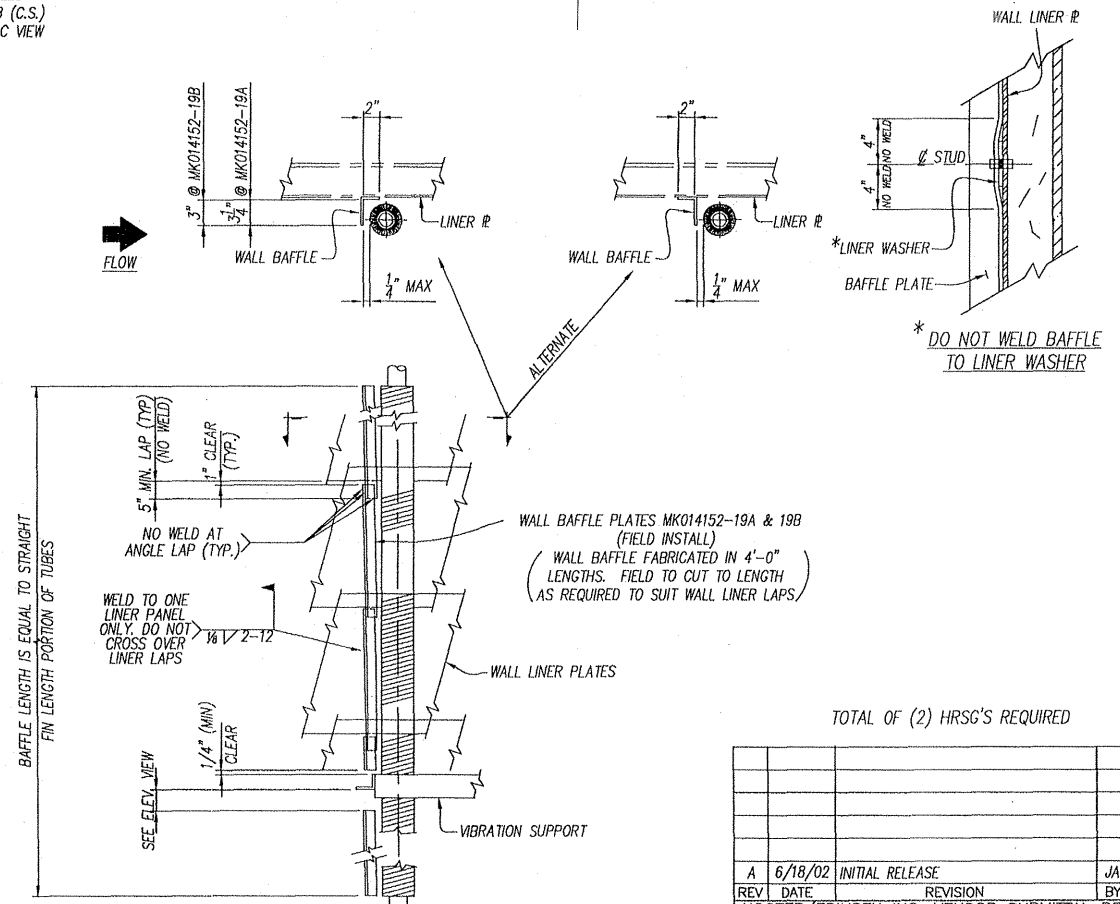
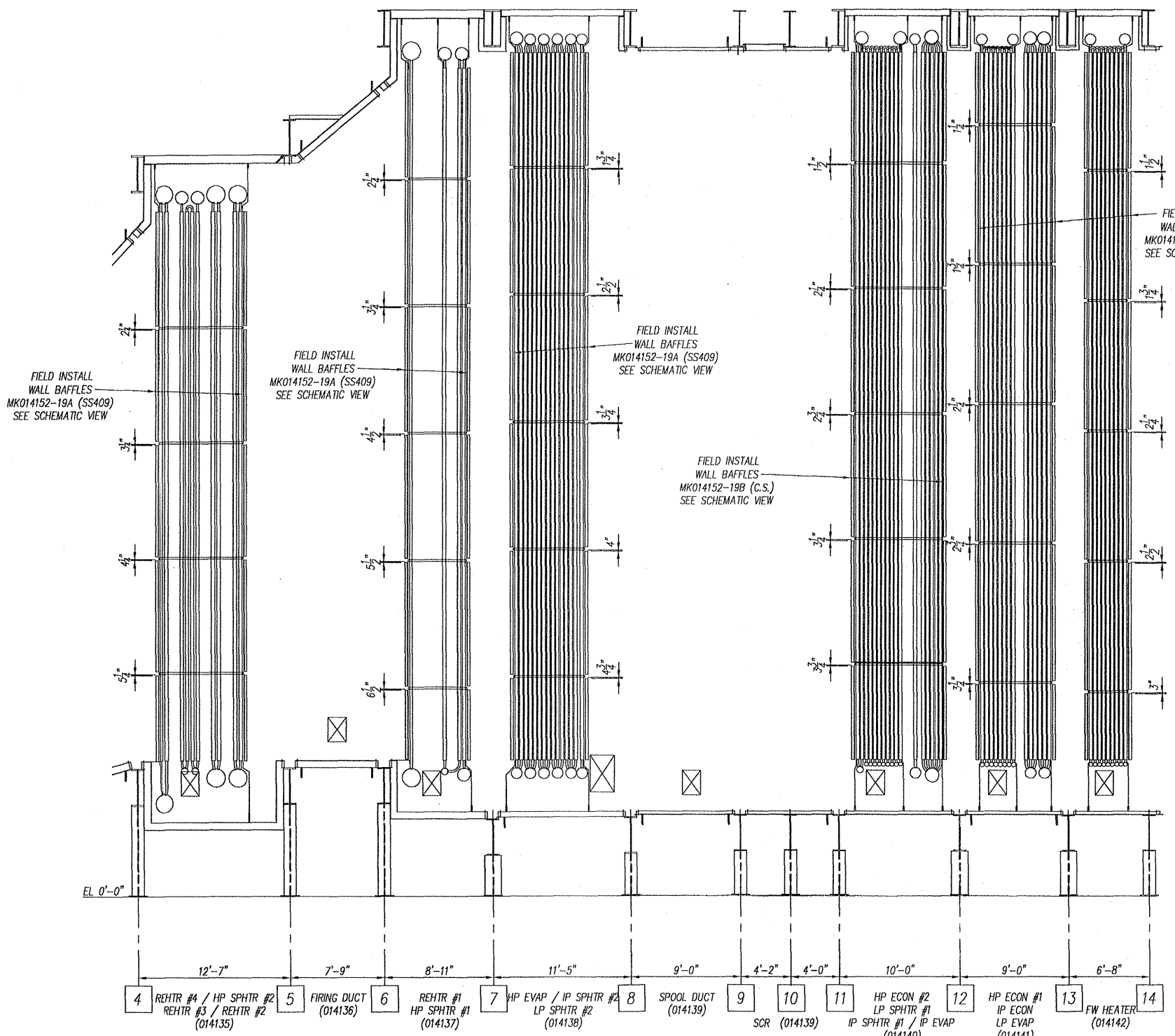
M010322-201A072 RA
JEA BRANDY BRANCH 7/11/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

CJB 7/16/02

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization



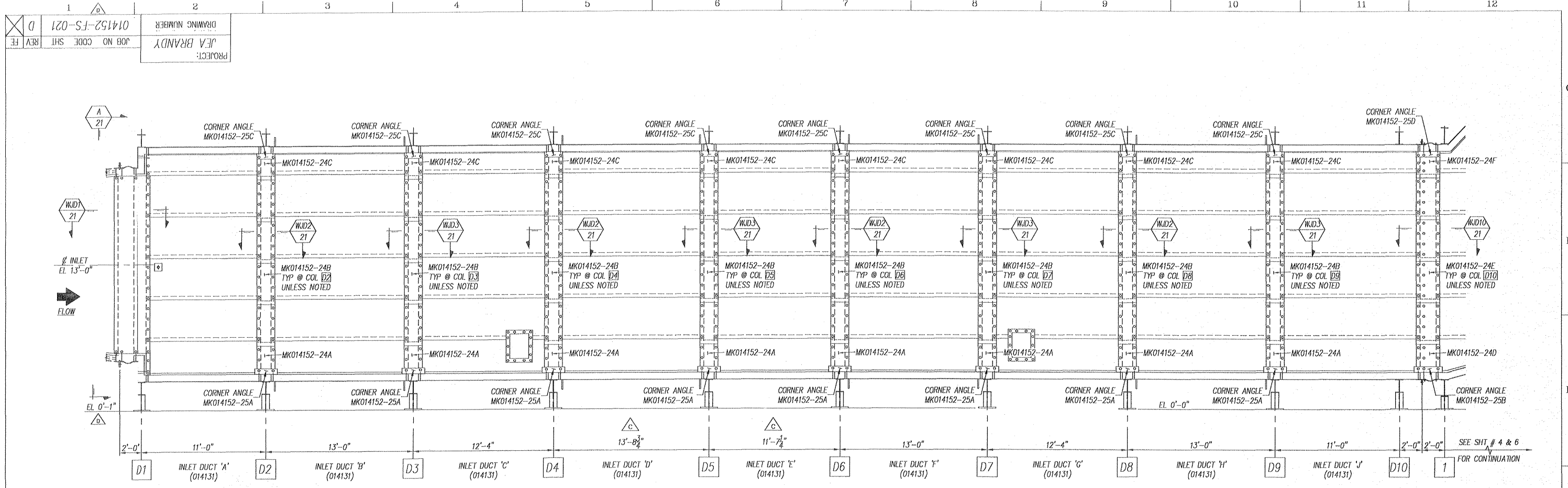
SCHEMATIC VIEW OF WALL BAFFLES

FYI

SECTIONAL ELEVATION @ COL. 'A' WALL AS SHOWN
SECTIONAL ELEVATION @ COL. 'B' WALL OPP HAND

TOTAL OF (2) HRS'S REQUIRED

REV	DATE	INITIALS	REVISION	BY	CHK
A	6/18/02	JA KA	INITIAL RELEASE	JA	KA
NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW					
REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITY FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, NOOTER/ERIKSEN SPECIFICATIONS AND I/O REQUIREMENTS					
<input checked="" type="checkbox"/> A REVIEWED AND ACCEPTED					
<input type="checkbox"/> B REVIEWED WITH COMMENTS (WORK MAY PROCEED)					
<input type="checkbox"/> C REVISE AND RESUBMIT (WORK MAY NOT PROCEED)					
<input type="checkbox"/> D REVIEWED FOR INFORMATION ONLY					
RELEASE DATE: 6-22-02 INITIALS: LJK/LZ					
THIS DRAWING HAS BEEN PREPARED BY NOOTER/ERIKSEN INC. THE INFORMATION SHOWN HEREIN IS THE PROPERTY OF NOOTER/ERIKSEN INC. AND SHALL NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION. THE FOREGOING IS NOT APPLICABLE TO DESIGN AND FEATURES WHICH ARE OUR CUSTOMER'S PROPERTY.					
NE NOOTER/ERIKSEN					
OWN	JA	REV	SIDEWALL GAS BAFFLES		
CHK	KA	PM	MWR		
PE	GBW	OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)			
SE	KWM	PURCHASER: BRAN UTILITY ENGINEERING			
TE	BCS	PROJECT: BRANDY BRANCH			
PLANT SITE: BALDWIN, FL					
PROJECT: JEA BRANDY					
DRAWING NUMBER		JOB NO CODE SHT		REV	FE
014152-FS-019		A			



ELEVATION LOOKING @ COLUMN 'A' WALL LINERS
(AS SHOWN)
ELEVATION LOOKING @ COLUMN 'B' WALL LINERS
(OPP HAND)

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

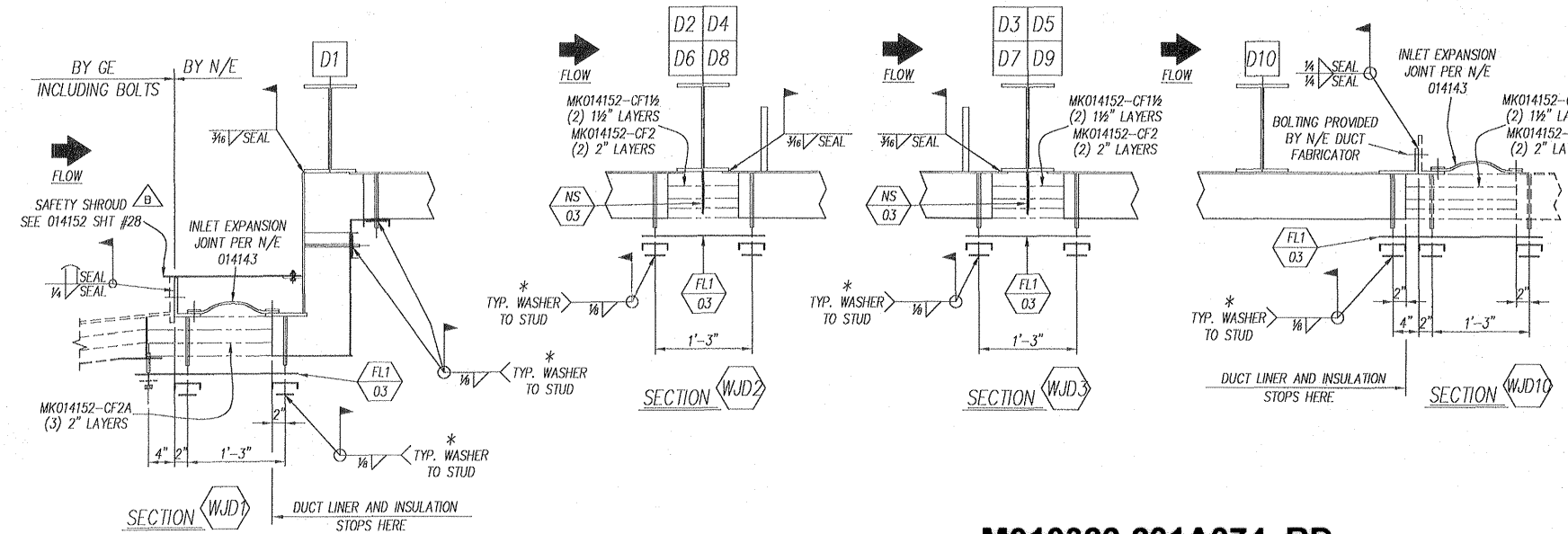
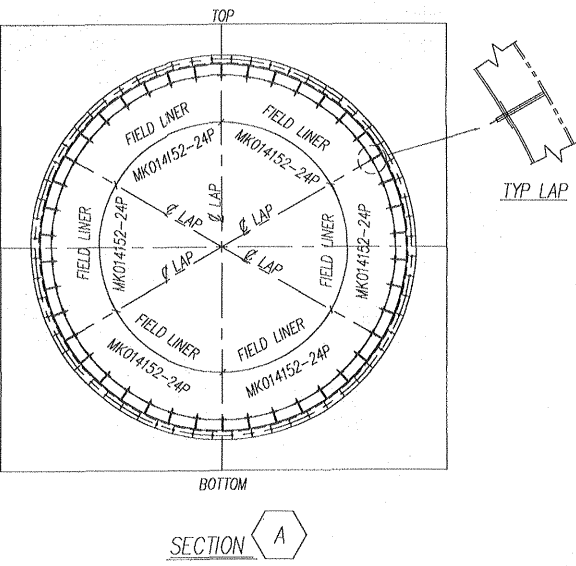
UTILITY ENGINEERING

Donny Syle

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

NOTE: ALL INSUL IS LISTED ON 014152-FS-003

* BATTEN CHANNELS, CHANNEL WASHERS & LINER WASHERS ARE SHOP ATTACHED TO WALL, FLOOR & ROOF PANELS WITH REMOVABLE PUSH NUTS. FIELD WILL REMOVE PUSH NUTS, LINER WASHERS, BATTEN CHANNELS & CHANNEL WASHERS PRIOR TO INSTALLING FIELD SEAM LINERS. FIELD SEAM LINERS AND INSULATION FURNISHED BY FIELD SEAM SUPPLIER. FINAL ASSEMBLY PER FIELD ERECTION DETAILS.



TOTAL OF (2) HRSG'S REQUIRED

D	11/26/02	BOTT OF BASE @ COL 1 THRU 7 NOW @ EL 0'-1"	JA	KA
C	11/15/02	REVISED DIMENSIONS	JA	KA
B	9/24/02	ADDED SAFETY SHROUD	JA	KA
A	6/18/02	INITIAL RELEASE	JA	KA
REV DATE		REVISION	BY	CHK
		NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW		
		REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, NOOTER/ERIKSEN SPECIFICATIONS AND P.O. REQUIREMENTS		
		<input checked="" type="checkbox"/> A REVIEWED AND ACCEPTED		
		<input type="checkbox"/> B REVIEWED WITH COMMENTS (WORK MAY PROCEED)		
		<input type="checkbox"/> C REVISE AND RESUBMIT (WORK MAY NOT PROCEED)		
		<input type="checkbox"/> D REVIEWED FOR INFORMATION ONLY		
RELEASE DATE:	12-02-02	REVIEWERS INITIALS:	JK	RE

NE NOOTER/ERIKSEN

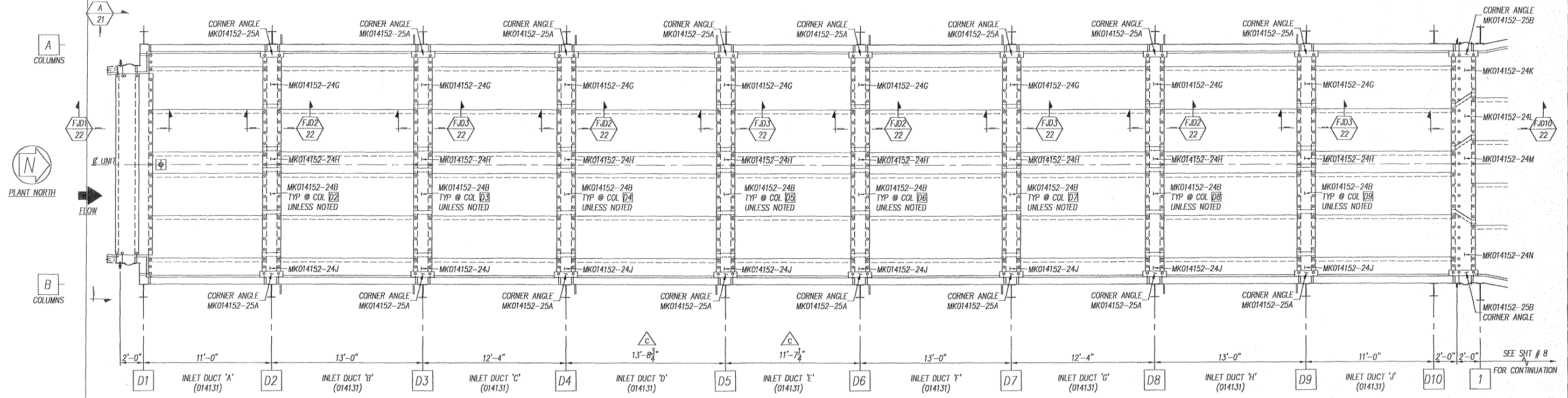
DWN JA (66) INLET DUCT WALL LINER LAYOUT
CHK KA
PM MRK
TPE GDW
SE KWM
TE BCS
OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)
PURCHASER: BEAM UTILITY ENGINEERING
PROJECT: BRANDY BRANCH
PLANT SITE: BALDWIN, FL

M010322-201A074 RD
JEA BRANDY BRANCH

12/11/2002

PROJECT:	JEA BRANDY	JOB NO CODE SHT	REV FE
DRAWING NUMBER	014152-FS-021		D

PROJECT: JEA BRANDY	DRAWING NUMBER: 014152-FS-022
JOB NO CODE SHT: 014152-FS-022	REV: C



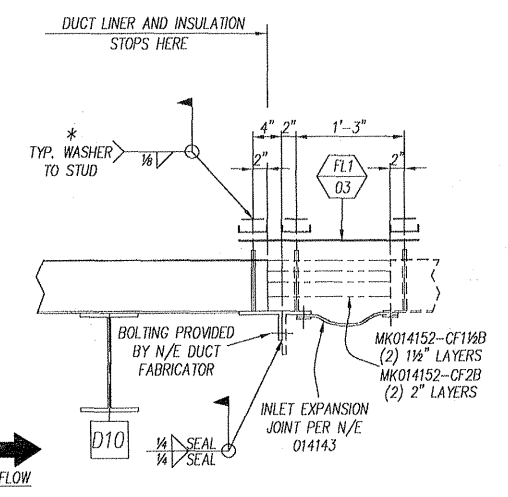
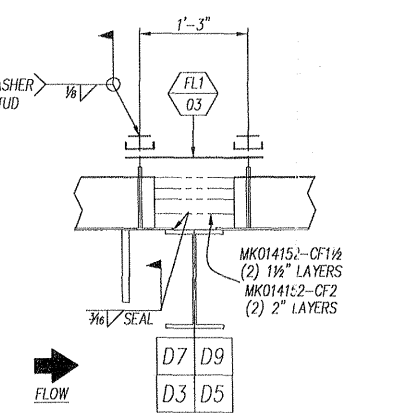
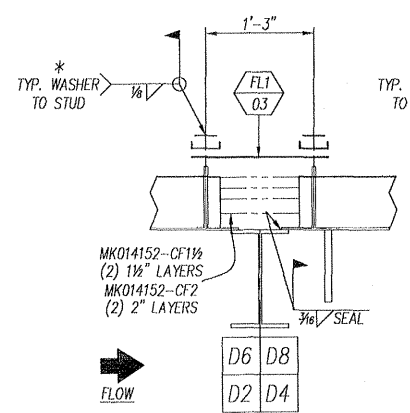
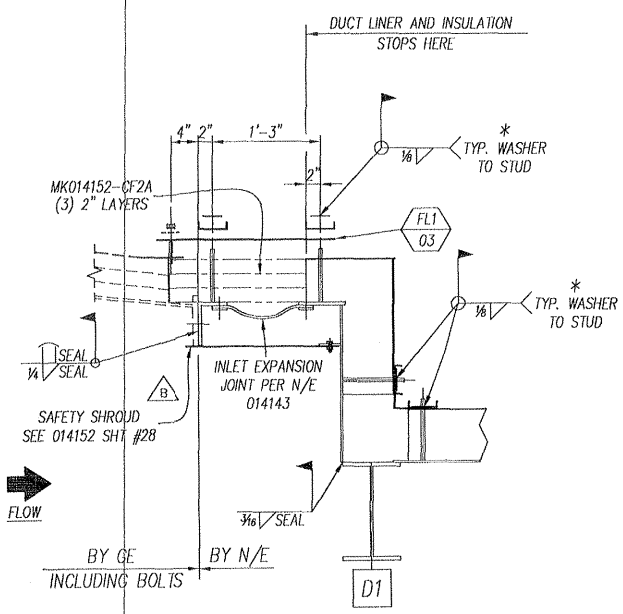
FLOOR LINER VIEW

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

MRW

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization



NOTE: ALL INSUL IS LISTED ON 014152-FS-003

* BATTEN CHANNELS, CHANNEL WASHERS & LINER WASHERS ARE SHOP ATTACHED TO WALL, FLOOR & ROOF PANELS WITH REMOVABLE PUSH NUTS. FIELD WILL REMOVE PUSH NUTS, LINER WASHERS, BATTEN CHANNELS & CHANNEL WASHERS PRIOR TO INSTALLING FIELD SEAM LINERS. FIELD SEAM LINERS AND INSULATION FURNISHED BY FIELD SEAM SUPPLIER. FINAL ASSEMBLY PER FIELD ERECTION DETAILS.

TOTAL OF (2) HRSG'S REQUIRED

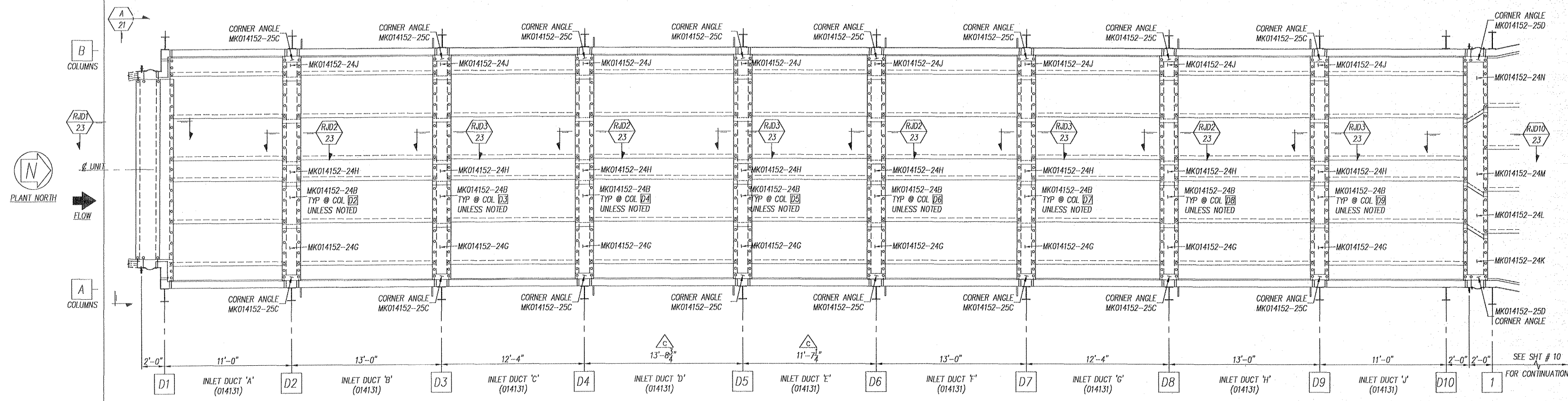
REV	DATE	REVISION	BY	CHK
C	11/15/02	REVISED DIMENSIONS	JA	KA
B	9/24/02	ADDED SFTY SHROUD	JA	KA
A	6/18/02	INITIAL RELEASE	JA	KA
REV	DATE	REVISION	BY	CHK
A		REVIEWED AND ACCEPTED		
B		REVIEWED WITH COMMENTS (WORK MAY PROCEED)		
C		REVISE AND RESUBMIT (WORK MAY NOT PROCEED)		
D		REVIEWED FOR INFORMATION ONLY		

OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)	PROJECT: BRANDY BRANCH
PURCHASER: BEAM UTILITY ENGINEERING	PLANT SITE: BALDWIN, FL
PROJECT: JEA BRANDY	JOB NO CODE SHT: 014152-FS-022
DRAWING NUMBER: 014152-FS-022	REV: C

014152-FS-023
 JOB NO CODE SHT
 REV FE

PROJECT:
 JEA BRANDY
 DRAWING NUMBER

M010322-201A076 RC
JEA BRANDY BRANCH
12/3/2002



ROOF LINER VIEW

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

MRZ

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

TOTAL OF (2) HRSG'S REQUIRED

REV	DATE	REVISION	BY	CHK
C	11/15/02	REVISED DIMENSIONS	JA	KA
B	9/24/02	ADDED SAFETY SHROUD	JA	KA
A	6/18/02	INITIAL RELEASE	JA	KA

NOTE: ALL INSUL IS LISTED ON 014152-FS-003

REV	DATE	REVISION	BY	CHK
A		REVIEWED AND ACCEPTED		
B		REVIEWED WITH COMMENTS (WORK MAY PROCEED)		
C		REVISE AND RESUBMIT (WORK MAY NOT PROCEED)		
D		REVIEWED FOR INFORMATION ONLY		

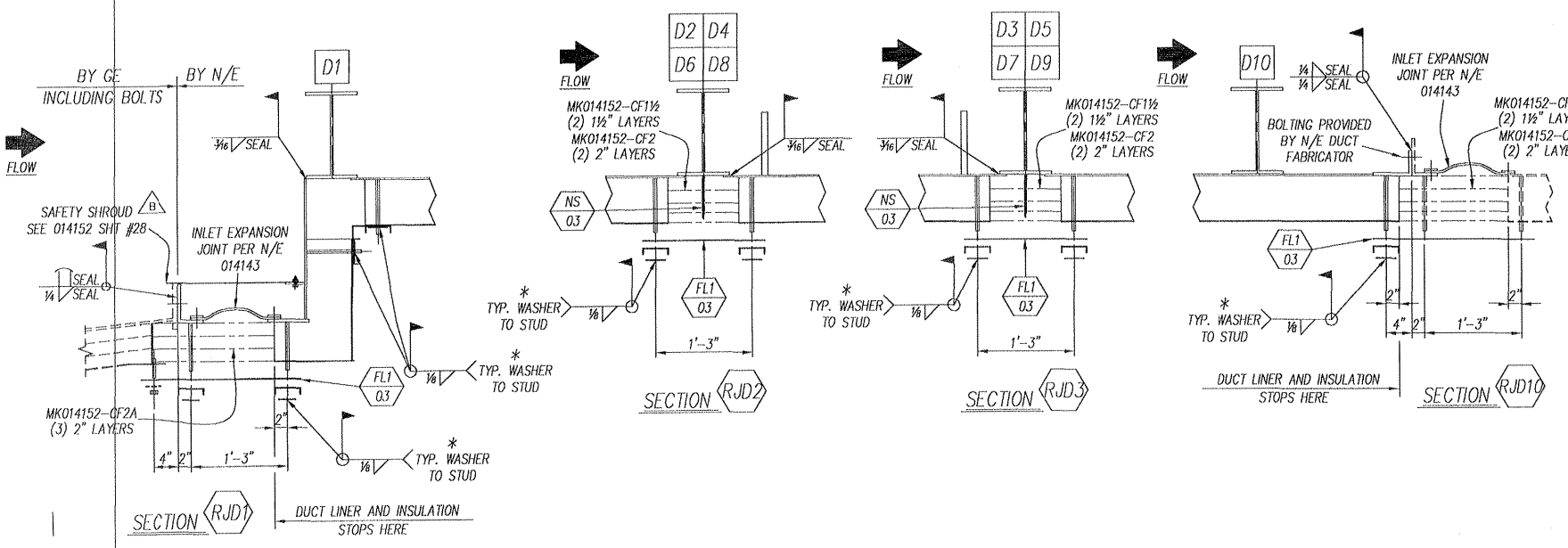
RELEASE DATE: 12-23-02

NE NOOTER/ERIKSEN

DWN JA (en)
 CHK KA
 PM MWK
 PE GBW
 SE KHM
 TE BCS

OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)
 PURCHASER: BEAK / UTILITY ENGINEERING
 PROJECT: BRANDY BRANCH
 PLANT SITE: BALDWIN, FL

PROJECT:	JEA BRANDY	JOB NO CODE SHT	REV FE
DRAWING NUMBER	014152-FS-023		C

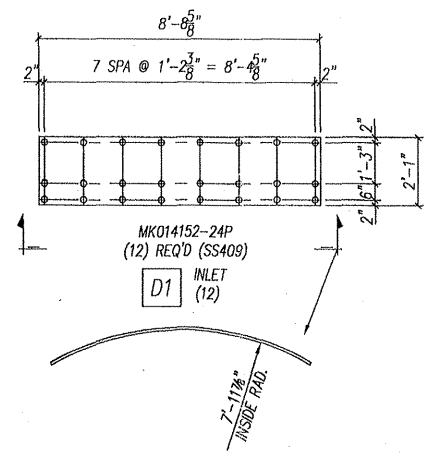
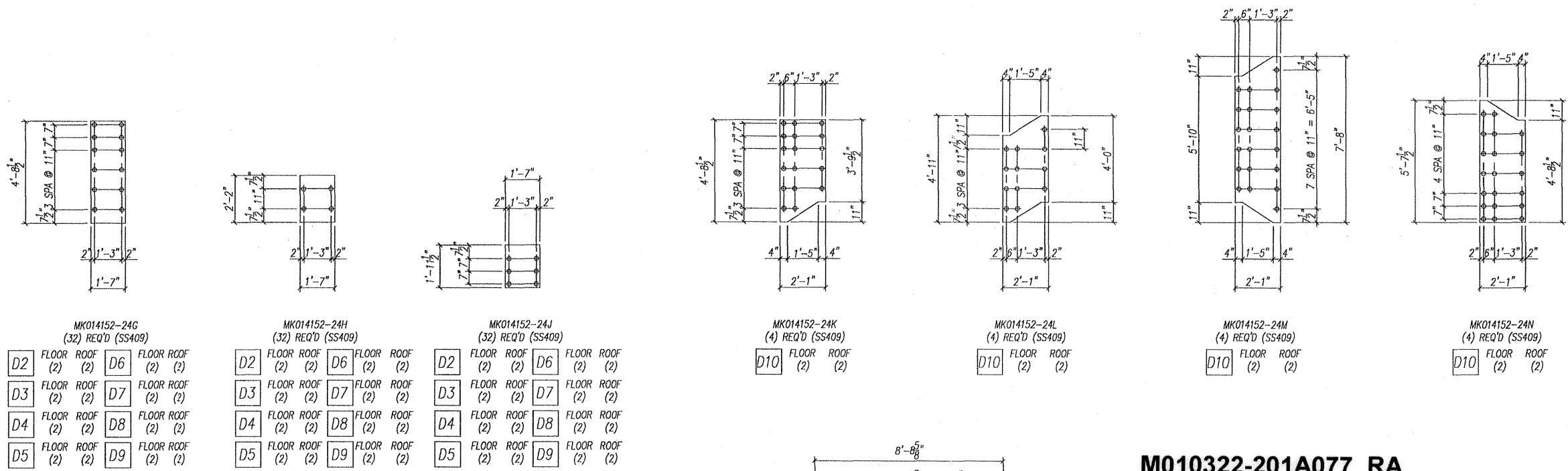
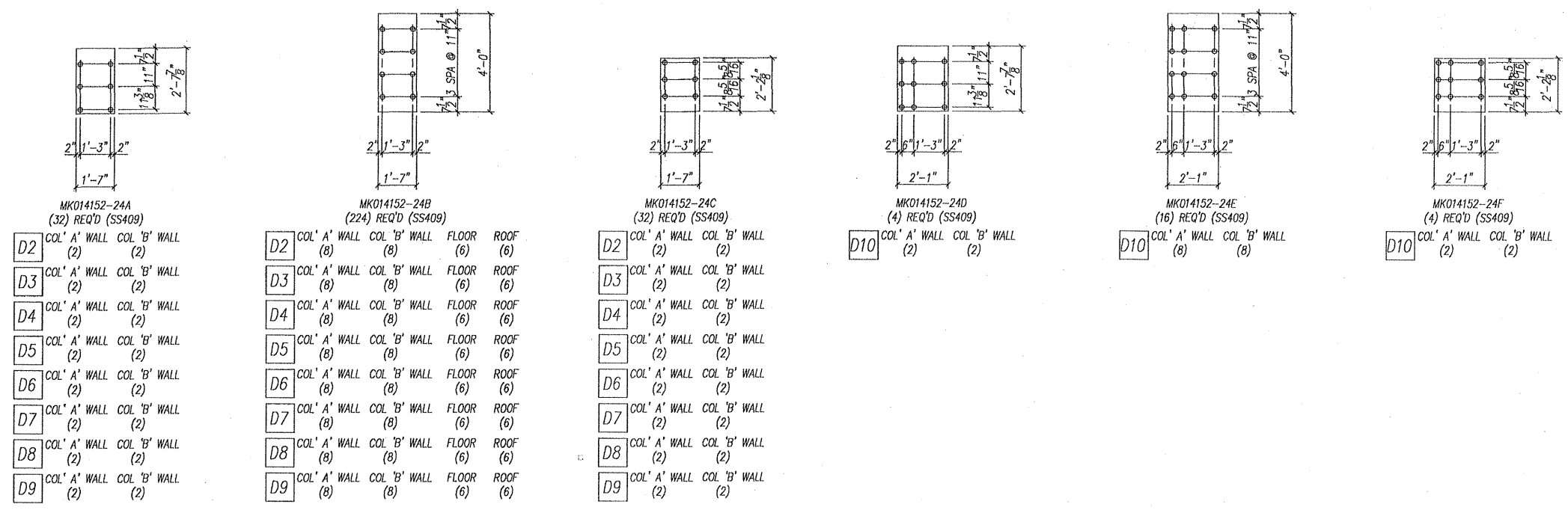


* BATTEN CHANNELS, CHANNEL WASHERS & LINER WASHERS ARE SHOP ATTACHED TO WALL, FLOOR & ROOF PANELS WITH REMOVABLE PUSH NUTS. FIELD WILL REMOVE PUSH NUTS, LINER WASHERS, BATTEN CHANNELS & CHANNEL WASHERS PRIOR TO INSTALLING FIELD SEAM LINERS. FIELD SEAM LINERS AND INSULATION FURNISHED BY FIELD SEAM SUPPLIER. FINAL ASSEMBLY PER FIELD ERECTION DETAILS.

BILL OF MATERIAL

PC.	MK.	QUAN.	DESCRIPTION	MATERIAL	REMARKS
SC	MK014152-24A	32	SHT # 12 GA x 19" x 31 1/2"	SS409	
SC	MK014152-24B	224	x 19" x 48"		
SC	MK014152-24C	32	x 19" x 26 1/8"		
SC	MK014152-24D	4	x 25" x 31 1/2"		
SC	MK014152-24E	16	x 25" x 48"		
SC	MK014152-24F	4	x 25" x 26 1/8"		
SC	MK014152-24G	32	x 19" x 56 1/2"		
SC	MK014152-24H	32	x 19" x 26"		
SC	MK014152-24I	32	x 19" x 23 1/2"		
SC	MK014152-24J	4	x 25" x 56 1/2"		
SC	MK014152-24K	4	x 25" x 59"		
SC	MK014152-24L	4	x 25" x 92"		
SC	MK014152-24M	4	x 25" x 67 1/2"		
SC	MK014152-24N	12	x 25" x 104 3/8"		ROLL

SPECIAL NOTES:
 1.) ALL LINER HOLES ARE 2 1/4" UNLESS NOTED
 2.) MAT'L LISTED FOR (2) UNITS
 (2) UNITS REQ'D.



M010322-201A077 RA
JEA BRANDY BRANCH

7/11/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

CSB 7/11/02

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

FYI

TOTAL OF (2) HRS'S REQUIRED

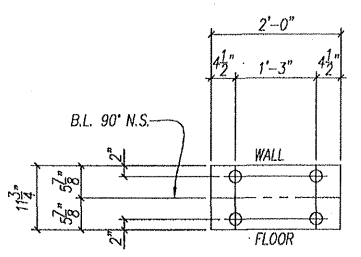
REV	DATE	DESCRIPTION	BY	CHK
A	6/18/02	INITIAL RELEASE	JA	KA
REV	DATE	REVISION	BY	CHK
NOTED/ERIKSEN INC. VENDOR SUBMITTAL REVIEW				
BROWER OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITY FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, NOTED/ERIKSEN SPECIFICATIONS AND P.D. REQUIREMENTS				
<input checked="" type="checkbox"/> A) REVIEWED AND ACCEPTED				
<input type="checkbox"/> B) REVIEWED WITH COMMENTS (WORK MAY PROCEED)				
<input type="checkbox"/> C) REVISE AND RESUBMIT (WORK MAY NOT PROCEED)				
<input type="checkbox"/> D) REVIEWED FOR INFORMATION ONLY				
RELEASE DATE: 6-27-02 INITIALS: JEA				
THIS DRAWING HAS BEEN FORWARDED BY NOTED/ERIKSEN INC. THE INFORMATION HEREON IS THE PROPERTY OF NOTED/ERIKSEN INC. AND SHALL NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION. THE FOREGOING IS NOT APPLICABLE TO DESIGN AND FEATURES WHICH ARE OUR CUSTOMER'S PROPERTY.				
NE NOTED/ERIKSEN				
DWN	SL	INLET DUCT FIELD SEAM LINERS		
CHK	KA			
PM	MWK			
PE	GBW	OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)		
SE	KWM	PURCHASER: BEAM / UTILITY ENGINEERING		
TE	BGS	PROJECT: BRANDY BRANCH		
		PLANT SITE: BALDWIN, FL		
PROJECT:				
JEA BRANDY		JOB NO CODE SHT	REV	FE
DRAWING NUMBER		014152-FS-024	A	

PROJECT: JEA BRANDY
 JOB NO. CODE SHT REV FE
 014152-FS-025 A

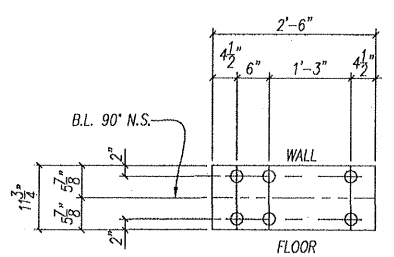
DRAWING NUMBER
 PROJECT: JEA BRANDY

PC. MK.	QUAN.	DESCRIPTION	MATERIAL	REMARKS
SC MK014152-25A	32	SHT # 12 GA x 11 3/4" x 24"	SS409	BEND
SC MK014152-25B	4	SHT # 12 GA x 11 3/4" x 30"	SS409	BEND
SC MK014152-25C	32	SHT # 12 GA x 11 3/4" x 19"	SS409	BEND
SC MK014152-25D	4	SHT # 12 GA x 11 3/4" x 25"	SS409	BEND

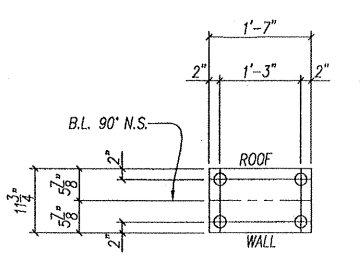
SPECIAL NOTES:
 1.) ALL LINER HOLES ARE 2 1/4" Ø UNLESS NOTED
 2.) MAT'L LISTED FOR (2) UNITS
 (2) UNITS REQ'D.



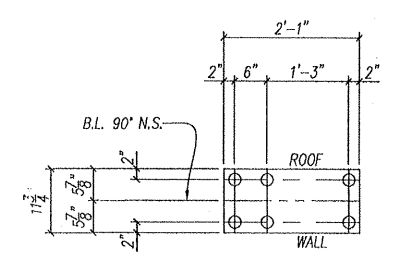
- MK014152-25A
 (32) REQ'D AS SHOWN (SS409)
- D2 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D3 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D4 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D5 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D6 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D7 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D8 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D9 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)



- MK014152-25B
 (4) REQ'D AS SHOWN (SS409)
- D10 FLOOR @ COL. 'A' & COL. 'B' WALL (2) (2)



- MK014152-25C
 (32) REQ'D AS SHOWN (SS409)
- D2 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D3 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D4 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D5 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D6 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D7 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D8 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)
 - D9 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)



- MK014152-25D
 (4) REQ'D AS SHOWN (SS409)
- D10 ROOF @ COL. 'A' & COL. 'B' WALL (2) (2)

M010322-201A078 RA
JEA BRANDY BRANCH 7/11/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

CSB 7/11/02

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

FYI

TOTAL OF (2) HRSG'S REQUIRED

REV	DATE	REVISION	BY	CHK
A	6/18/02	INITIAL RELEASE	JA	KA

NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW

REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, NOOTER/ERIKSEN SPECIFICATIONS AND P.O. REQUIREMENTS

A REVIEWED AND ACCEPTED
 B REVIEWED WITH COMMENTS (WORK MAY PROCEED)
 C REVISE AND RESUBMIT (WORK MAY NOT PROCEED)
 D REVIEWED FOR INFORMATION ONLY

RELEASE DATE: 6-27-02 INITIALS: JEA/ER

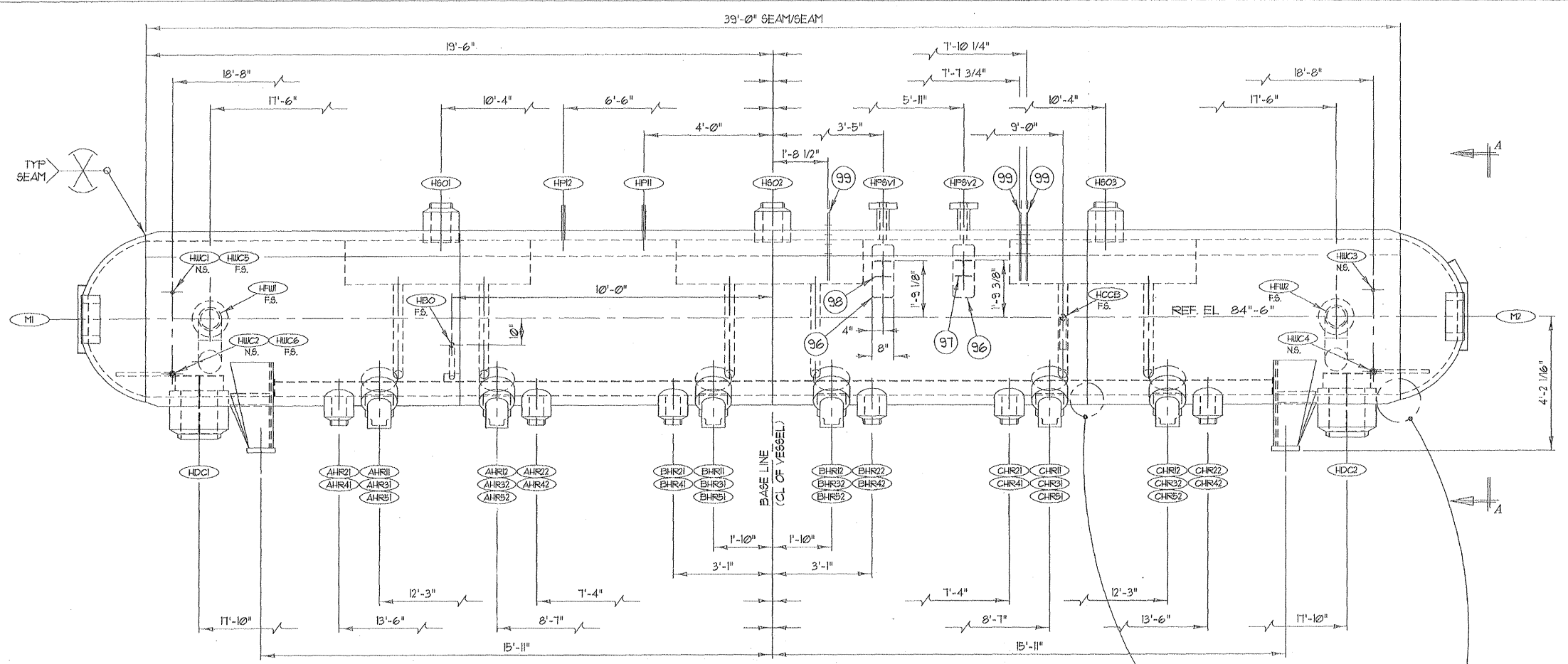
THIS DRAWING HAS BEEN FURNISHED BY NOOTER/ERIKSEN INC. THE INFORMATION HEREON, AND ALL NOW OR FUTURE FEATURES ARE THE PROPERTY OF NOOTER/ERIKSEN INC. AND MUST NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION. THE FURNISHING IS NO WAY APPLICABLE TO DESIGN AND FEATURES WHICH ARE OUR CUSTOMER'S PROPERTY.

NE NOOTER/ERIKSEN

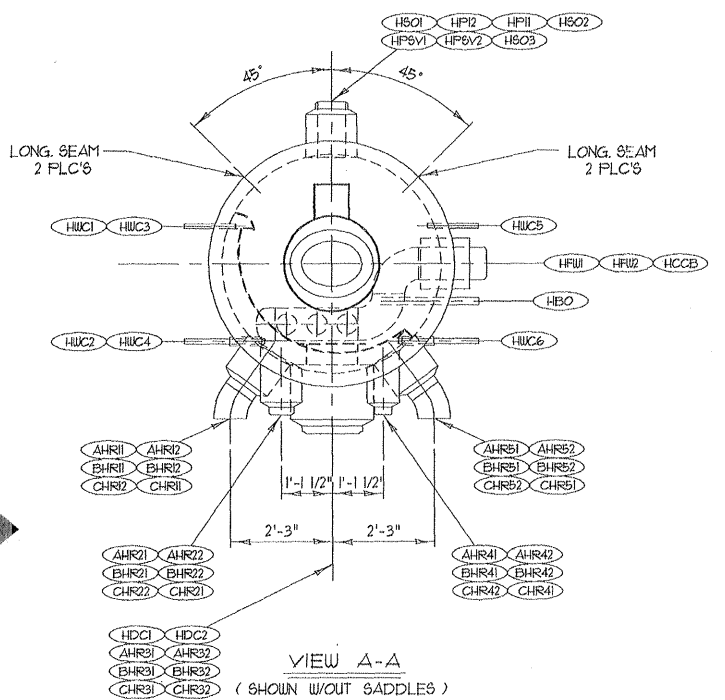
OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)
 PURCHASER: BEAK / UTILITY ENGINEERING
 PROJECT: BRANDY BRANCH
 PLANT SITE: BALDWIN, FL

PROJECT:	JEA BRANDY	JOB NO. CODE SHT	REV FE
DRAWING NUMBER	014152-FS-025	A	

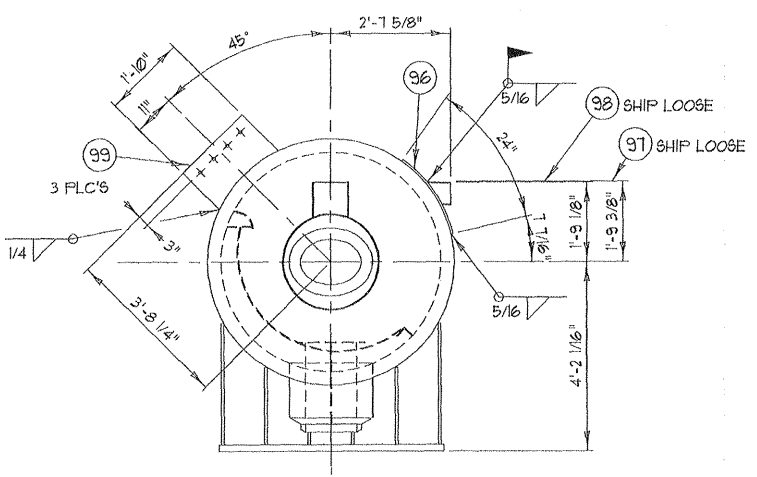
NOZZLE SCHEDULE			
MARK	QTY	SIZE (MATING)	SERVICE
AHR11	1	8" (SCH 100) B.W. (SPECIAL)	RISER
AHR12	1	8" (SCH 100) B.W. (SPECIAL)	RISER
AHR21	1	6" (SCH 120) B.W. FORGING	RISER
AHR22	1	6" (SCH 120) B.W. FORGING	RISER
AHR31	1	5" (SCH 80) B.W. FORGING	RISER
AHR32	1	5" (SCH 80) B.W. FORGING	RISER
AHR41	1	4" (SCH 80) B.W. FORGING	RISER
AHR42	1	4" (SCH 80) B.W. FORGING	RISER
AHR51	1	8" (SCH 100) B.W. (SPECIAL)	RISER
AHR52	1	8" (SCH 100) B.W. (SPECIAL)	RISER
BHR11	1	8" (SCH 100) B.W. (SPECIAL)	RISER
BHR12	1	8" (SCH 100) B.W. (SPECIAL)	RISER
BHR21	1	6" (SCH 120) B.W. FORGING	RISER
BHR22	1	6" (SCH 120) B.W. FORGING	RISER
BHR31	1	5" (SCH 80) B.W. FORGING	RISER
BHR32	1	5" (SCH 80) B.W. FORGING	RISER
BHR41	1	4" (SCH 80) B.W. FORGING	RISER
BHR42	1	4" (SCH 80) B.W. FORGING	RISER
BHR51	1	8" (SCH 100) B.W. (SPECIAL)	RISER
BHR52	1	8" (SCH 100) B.W. (SPECIAL)	RISER
CHR11	1	8" (SCH 100) B.W. (SPECIAL)	RISER
CHR12	1	8" (SCH 100) B.W. (SPECIAL)	RISER
CHR21	1	6" (SCH 120) B.W. FORGING	RISER
CHR22	1	6" (SCH 120) B.W. FORGING	RISER
CHR31	1	5" (SCH 80) B.W. FORGING	RISER
CHR32	1	5" (SCH 80) B.W. FORGING	RISER
CHR41	1	4" (SCH 80) B.W. FORGING	RISER
CHR42	1	4" (SCH 80) B.W. FORGING	RISER
CHR51	1	8" (SCH 100) B.W. (SPECIAL)	RISER
CHR52	1	8" (SCH 100) B.W. (SPECIAL)	RISER
HBO	1	1 1/2" (SCH 160) SQ. CUT	BLOWOFF
HCCB	1	2" (SCH 160) SQ. CUT	CASC BLOWDOWN
HDC1	1	16" (SCH 120) B.W. FORGING	DOWNCOMER
HDC2	1	16" (SCH 120) B.W. FORGING	DOWNCOMER
HFU1	1	8" (SCH 120) B.W. FORGING	FEEDWATER
HFU2	1	8" (SCH 120) B.W. FORGING	FEEDWATER
HP11	1	1" (SCH 80) SQ. CUT	PRESSURE IND.
HP12	1	1" (SCH 80) SQ. CUT	PRESSURE IND.
HP5V1	1	2 1/2" 2500# LUNF RF	SAFETY VALVE
HP5V2	1	2 1/2" 2500# LUNF RF	SAFETY VALVE
H501	1	8" (SCH 100) B.W. FORGING	STEAM OUTLET
H502	1	8" (SCH 100) B.W. FORGING	STEAM OUTLET
H503	1	8" (SCH 100) B.W. FORGING	STEAM OUTLET
HWC1	1	1" (SCH 80) SQ. CUT	WATER COL.
HWC2	1	1" (SCH 80) SQ. CUT	WATER COL.
HWC3	1	1" (SCH 80) SQ. CUT	WATER COL.
HWC4	1	1" (SCH 80) SQ. CUT	WATER COL.
HWC5	1	1" (SCH 80) SQ. CUT	WATER COL.
HWC6	1	1" (SCH 80) SQ. CUT	WATER COL.
M1	1	12" x 16" ELLIP.	MANWAY
M2	1	12" x 16" ELLIP.	MANWAY



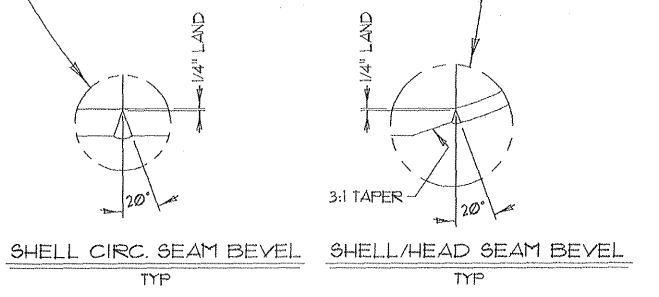
ELEVATION VIEW
LOOKING WITH GAS FLOW



VIEW A-A
(SHOWN W/OUT SADDLES)



SUPPORT CLIP LOCATIONS
TYP 2 FLC'S



SHELL CIRC. SEAM BEVEL TYP
SHELL/HEAD SEAM BEVEL TYP

APPROVED
For Production
Order No. 10007-18
Date _____
By _____

SEE SHIT 5 FOR DESIGN NOTES

NOTER/ERIKSEN, INC.
5000 CEDAR PLAZA PARKWAY
SUITE 200, AND, 2020
WESTON SUBMITTAL REVIEW
RESUBMITTAL

STATUS:
A. REVIEWED AND ACCEPTED
B. REVIEWED WITH COMMENTS
(WORK MAY PROCEED)
C. REVISE AND RESUBMIT
(WORK MAY NOT PROCEED)
D. REVIEWED FOR INFORMATION ONLY

REVIEW OF VENDOR DRAWINGS
DOES NOT RELIEVE THE VENDOR
OF RESPONSIBILITY FOR
ACCURACY OF DIMENSIONS AND
COMPLIANCE TO SPECIFICATIONS
AND P.D. REVISIONS AND
NOTIFICATIONS TO THE VENDOR
SHOULD BE MADE BY THE
DATE: 10-2-02

Nooter/Eriksen	Release Date: 10-2-02
Project: JEA BRANDY	Job No. Code Sht. Rev. FE
NE Drawing No. 014145-HD-001	D X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
FABRICATION	MACHINING
0-60 incl. ±1/8"	2-PLACES ±.03
60-120 incl. ±1/4"	3-PLACES ±.015
OVER 120 ±1/2"	
ANGLES ±1/2°	

7					
6					
5					
4					
3	9-25-02	ADDED REF. EL.	VJS	DRAWN BY	K/S
2	9-16-02	ADDED DOWN PIPE TO 'HCCB'	VJS	CHECKED	---
1	9-11-02	PER CUSTOMER COMMENTS	VJS	SCALE	1/2" = 1'-0"
NO.	DATE	REVISION	BY	DATE	1-25-02

ARROW TANK & ENGINEERING CO.	MINNEAPOLIS-CAMBRIDGE	MINNESOTA
4'-10" ID x 39'-0" SEAM/SEAM		
HP REMOTE STEAM DRUM		
CUSTOMER	PO# 17565	
Nooter / Eriksen		DRAWING NO.
SHEET		1 of 1
DATE		10007-18

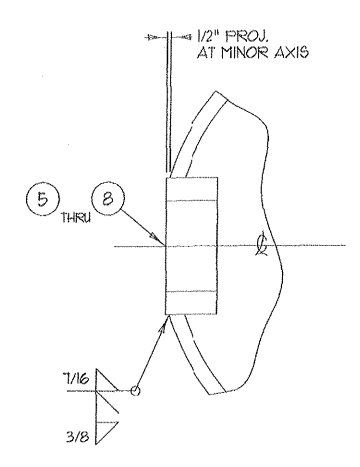
Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

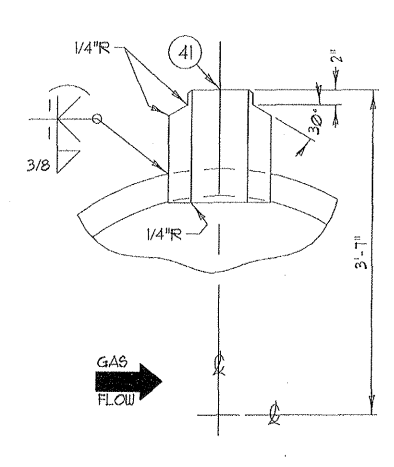
MRE

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

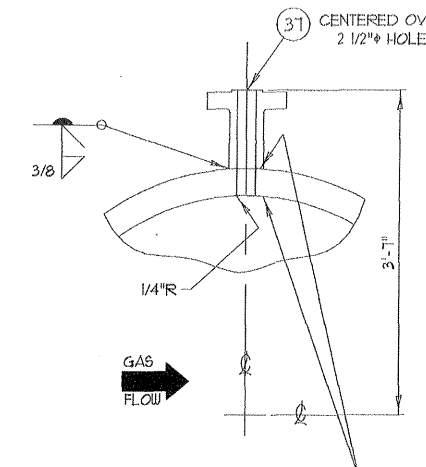
K:\ENGINEERING\10\10007-2d.dwg Mod Sep 25 13:57:19 2002



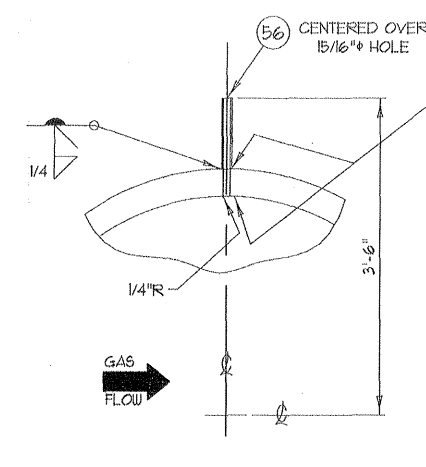
NOZZLE M1
M2



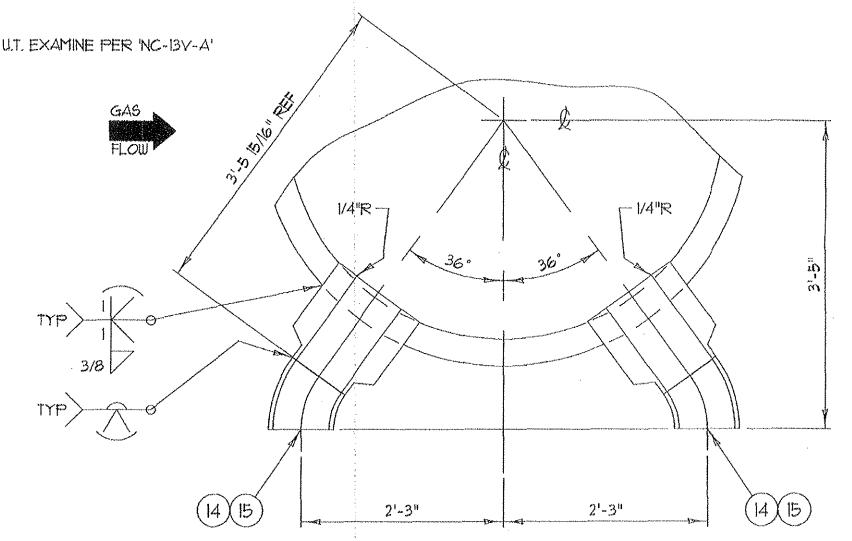
NOZZLE HSO1
HSO2
HSO3
3 PLC'S



NOZZLE HPSV1
HPSV2
2 PLC'S



NOZZLE HP11
HP12
2 PLC'S



NOZZLE AHR11 BHR11 CHR11
AHR12 BHR12 CHR12
6 PLC'S
NOZZLE AHR51 BHR51 CHR51
AHR52 BHR52 CHR52
6 PLC'S

M010322-201A103 RD
JEA BRANDY BRANCH

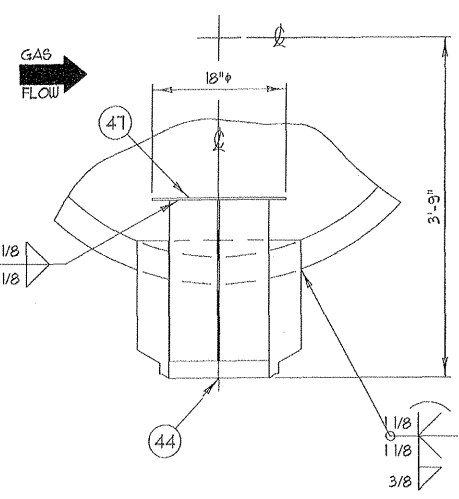
10/21/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

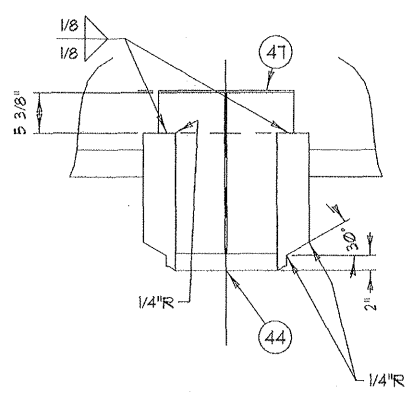
UTILITY ENGINEERING

MEM

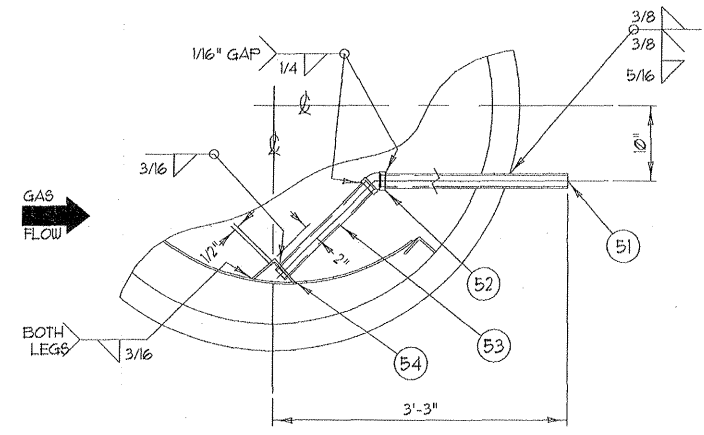
- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization



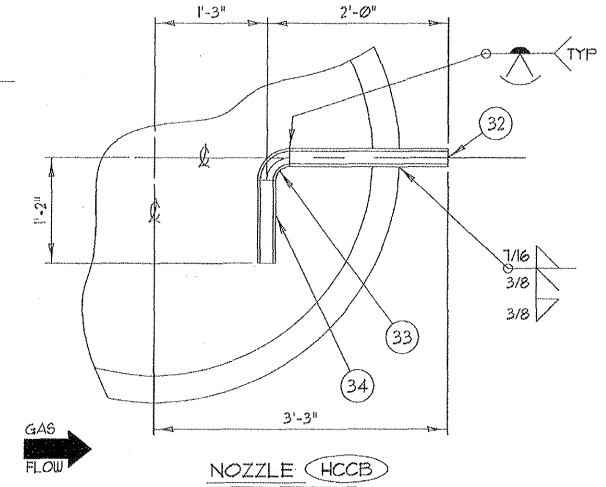
NOZZLE HDC1
HDC2
2 PLC'S



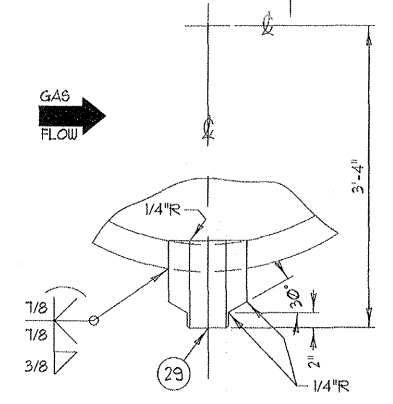
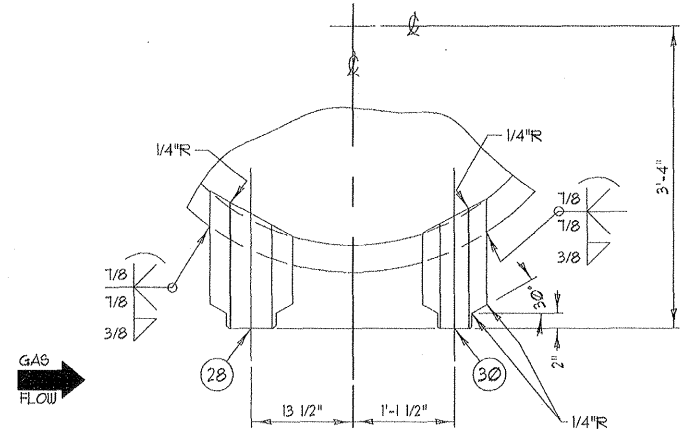
NOZZLE HBO
1 PLC



NOZZLE HCCB
1 PLC'S



NOZZLE AHR21 BHR21 CHR21
AHR22 BHR22 CHR22
6 PLC'S
NOZZLE AHR41 BHR41 CHR41
AHR42 BHR42 CHR42
6 PLC'S



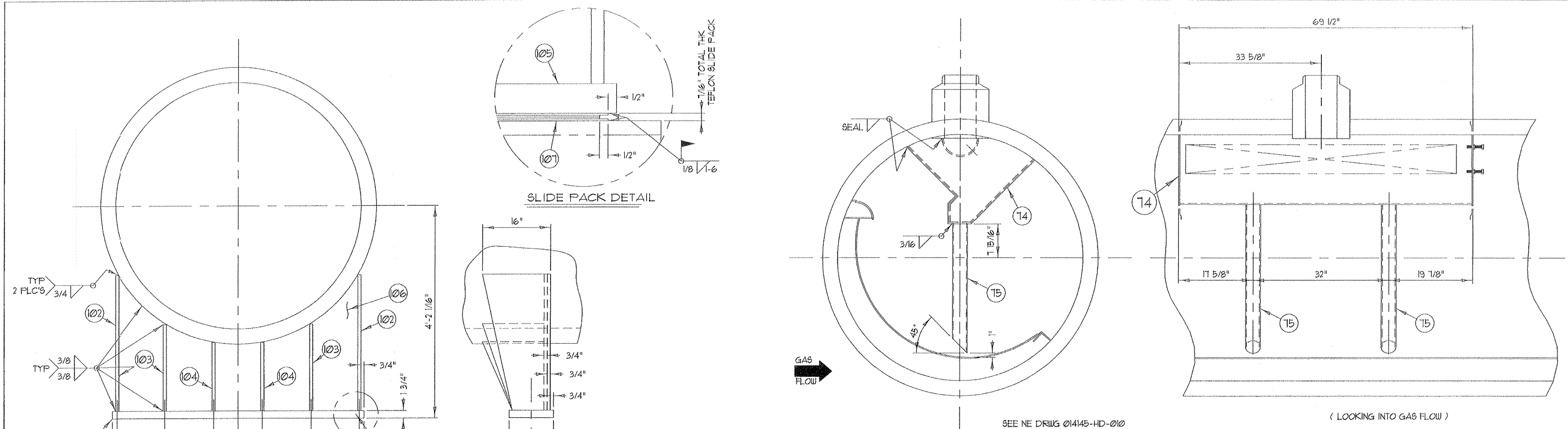
NOZZLE AHR31 BHR31 CHR31
AHR32 BHR32 CHR32
6 PLC'S

APPROVED
For Production
Order No. 10007-18
Date _____
By _____

NOTER/ERIKSEN, INC.
2000 CEDAR PLAZA PARKWAY
ST. LOUIS, MO 63105
REVISIONS:
A. REVIEWED AND ACCEPTED
B. REVIEWED WITH COMMENTS
C. WORK AND REVISIONS
D. REVIEWED FOR INFORMATION ONLY
REVIEW OF VENDOR DIMENSIONS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITY FOR ACCURACY OR COMPLIANCE TO CODES AND SPECIFICATIONS AND FOR THE QUALITY OF THE WORK.
DATE: 10-21-02

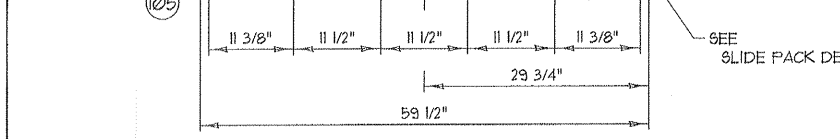
Nooter/Eriksen		Release Date: 10-21-02	
Project: JEA BRANDY	Job No. Code	Sht.	Rev
NE	014145-HD-002	D	X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			
FABRICATION		MACHINING	
0-60 incl.	±1/8"	2-PLACES	±.03
60-120 incl.	±1/4"	3-PLACES	±.015
OVER 120	±1/2"		
ANGLES	±1/2°		

7							
6							
5							
4							
3	9-25-02	CHANGED PROJ. OF HCCB WAS 1'-0"	VJS	DRAWN BY	CUSTOMER	FO# 11565	
2	9-16-02	ADDED DOWN PIPE TO 'HCCB'	VJS	CHECKED	---	NOOTER / ERIKSEN	
1	9-11-02	PER CUSTOMER COMMENTS	VJS	SCALE	1/12	SHEET	DRAWING NO.
NO.	DATE	REVISION	BY	DATE	7-24-02	2 OF 1	D 10007-18

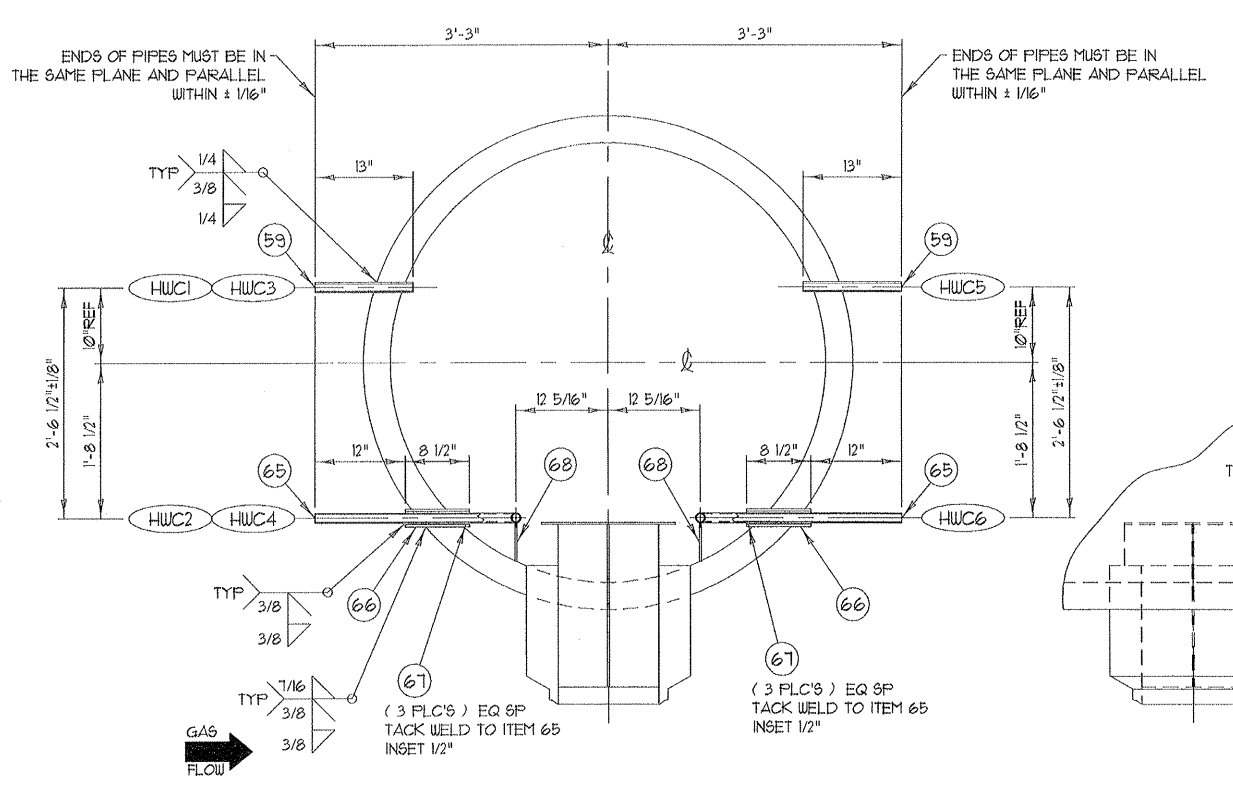


STEAM SEPARATOR DETAIL
TYP 3 FLC'S

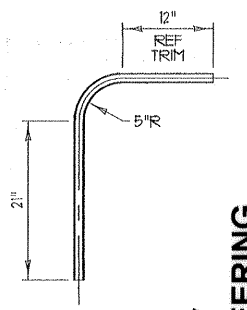
Review does not relieve contractor from responsibility for errors or deviations from contract requirements



SADDLE DETAIL
TYP 2 FLC'S



NOZZLE HWC1 HWC3 HWC5
NOZZLE HWC2 HWC4 HWC6



UTILITY ENGINEERING
MRM

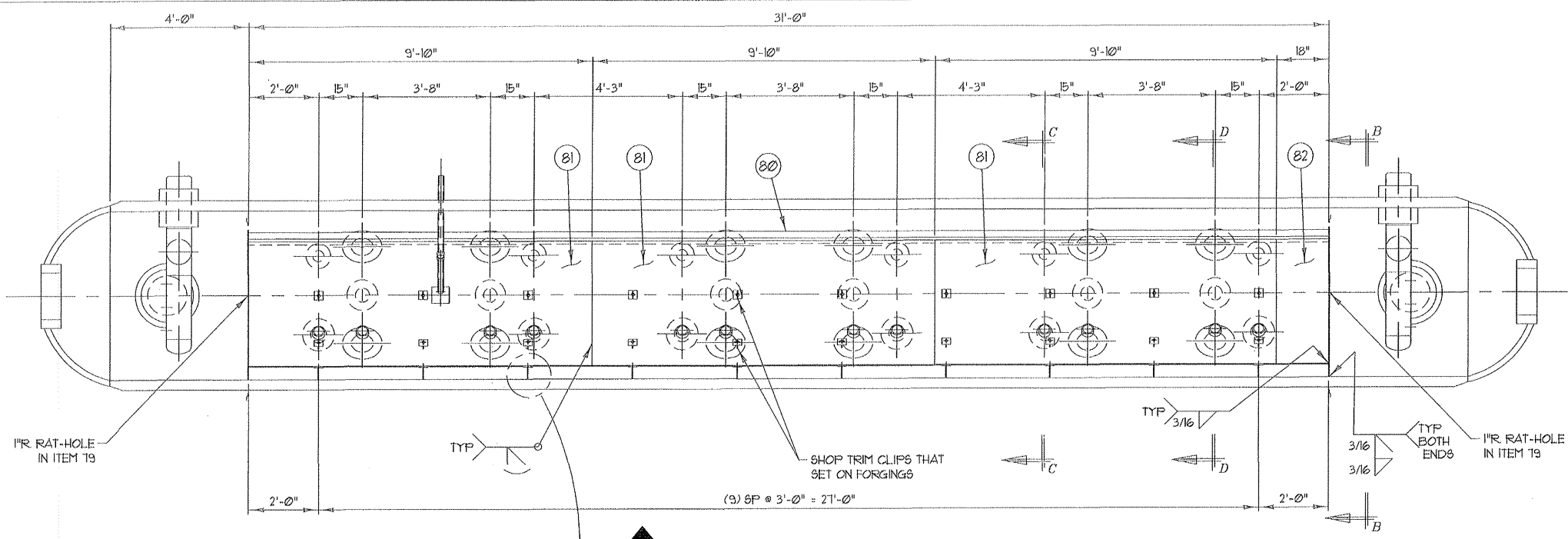
- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

APPROVED
For Production
Order No. 10007-18
Date _____
By _____

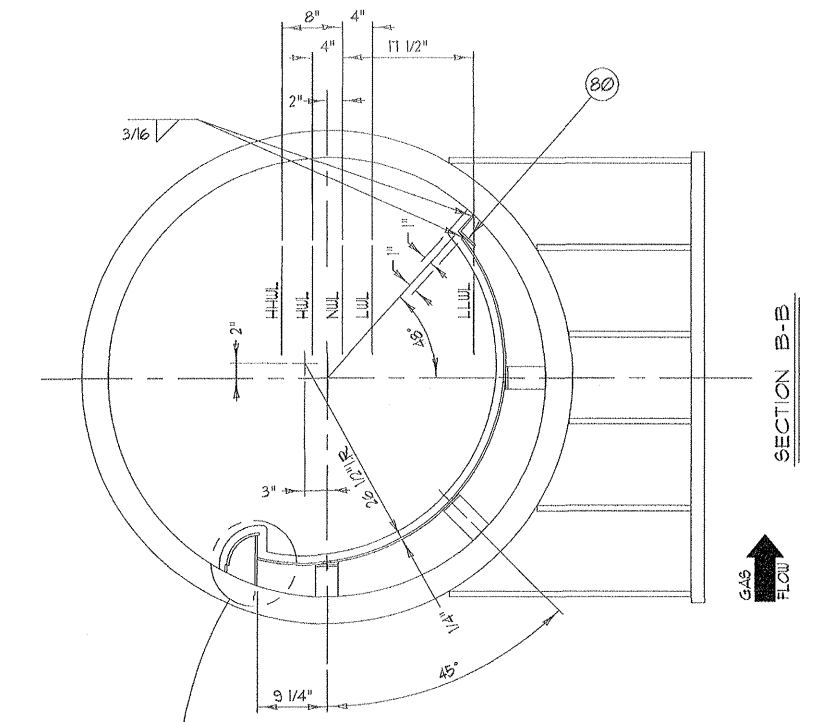
NOTED/ERIKSEN, INC.
5000 CEDAR PLAZA PARKWAY
ST. LOUIS, MO 63128
VENDOR QUALITY REVIEW
 NEW
 REVISION
 REVIEWED FOR INFORMATION ONLY
REVIEW OF VENDOR DRAWINGS
DOES NOT RELIEVE THE VENDOR
OF RESPONSIBILITIES FOR
ACCURACY OF DIMENSIONS AND
COMPLIANCE TO CODES
NOTATIONS, SPECIFICATIONS
AND P.O. REQUIREMENTS
DATE: 9-18-02

Nooter/Eriksen	Release Date: 9-18-02
Project: JEA BRANDY	Job No. Code Sht. Rev. FE
NE Drawing No. 01415-HD-003	B X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
FABRICATION	MACHINING
0-60 incl. ± 1/8"	2-PLACES ± .03
60-120 incl. ± 1/4"	3-PLACES ± .015
OVER 120 ± 1/2"	
ANGLES ± 1/2°	

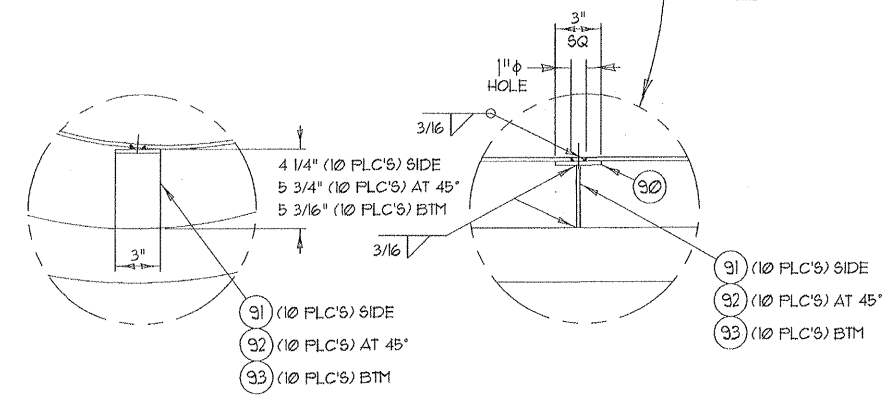
ARROW TANK & ENGINEERING CO. MINNEAPOLIS-CAMBRIDGE MINNESOTA			
DETAILS HP REMOTE STEAM DRUM			
DRAWN BY	VJS	CUSTOMER	PO# 17565
CHECKED	---	NOTOER / ERIKSEN	
1	9-11-02	PER CUSTOMER COMMENTS	VJS
NO.	DATE	REVISION	BY
7			
6			
5			
4			
3			
2			
1	9-11-02	PER CUSTOMER COMMENTS	VJS
NO.	DATE	REVISION	BY
	7-26-02		



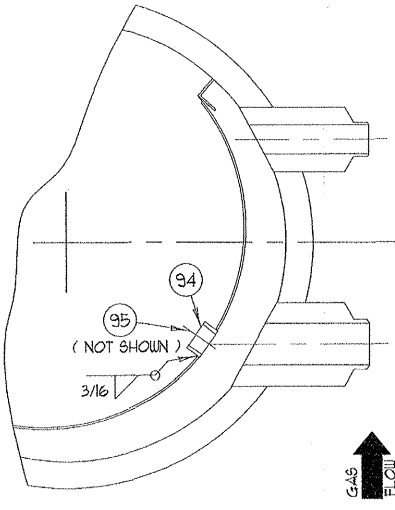
BAFFLE DETAIL - PLAN VIEW



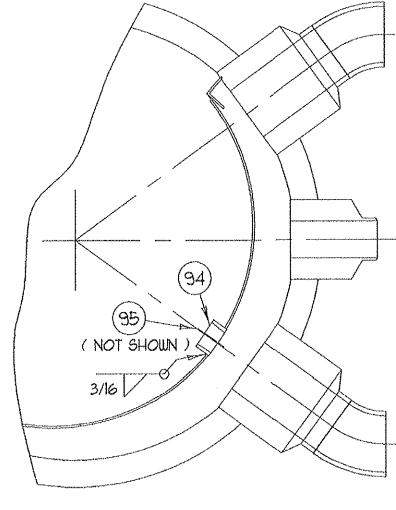
SECTION B-B



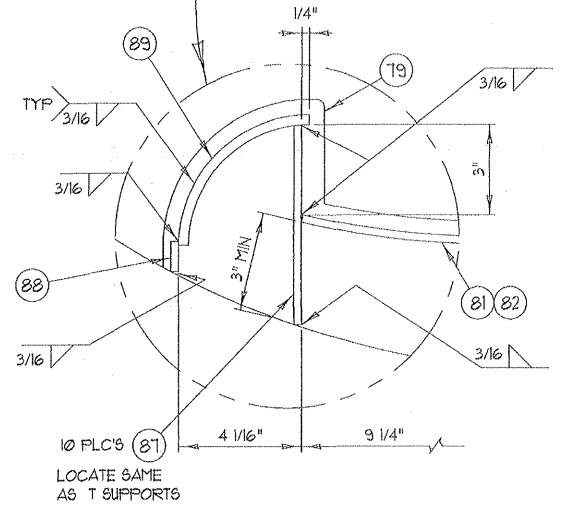
- 91 (10 FLC'S) SIDE
- 92 (10 FLC'S) AT 45°
- 93 (10 FLC'S) BTM



SECTION C-C
TYP 6 FLC'S



SECTION D-D
TYP 6 FLC'S



APPROVED
For Production
Order No. 10001-18
Date _____
By _____

NOOTER/ERIKSEN, INC.
6000 CEDAR BLVD. SPRINGWAY
ST. LOUIS, MO. 63113

REVIEWED AND ACCEPTED
DATE: 9-18-02

REVISIONS:

1	9-12-02	PER CUSTOMER COMMENTS	VJS
---	---------	-----------------------	-----

Project: JEA BRANDY	Release Date: 9-18-02
Job No. Code: 014145-HD-004	Shr. Rev: B
Drawing No. 014145-HD-004	Rev: X

TOLERANCES (UNLESS OTHERWISE SPECIFIED)

FABRICATION	MACHINING
0-60 incl. ±1/8"	2-PLACES ±.03
60-120 incl. ±1/4"	3-PLACES ±.015
OVER 120 ±1/2"	
ANGLES ±1/2°	

ARROW TANK & ENGINEERING CO.
MINNEAPOLIS-CAMBRIDGE MINNESOTA
4'-10" ID x 39'-0" SEAM/SEAM
HP REMOTE STEAM DRUM

DRAWN BY: VJS CUSTOMER: FO# 17565
CHECKED BY: --- NOOTER / ERIKSEN
SCALE 1/2" = 1'-0" SHEET: DRAWING NO. 4.0F_1 D10001-18

M010322-201A105 RB
JEA BRANDY BRANCH
9/24/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

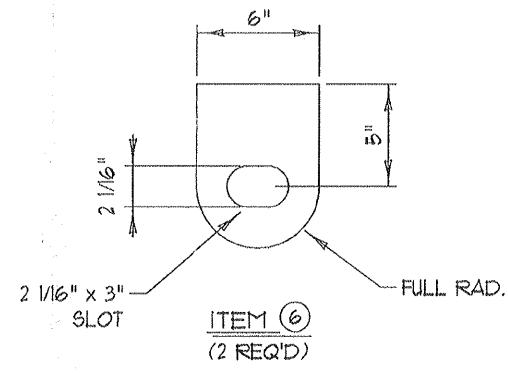
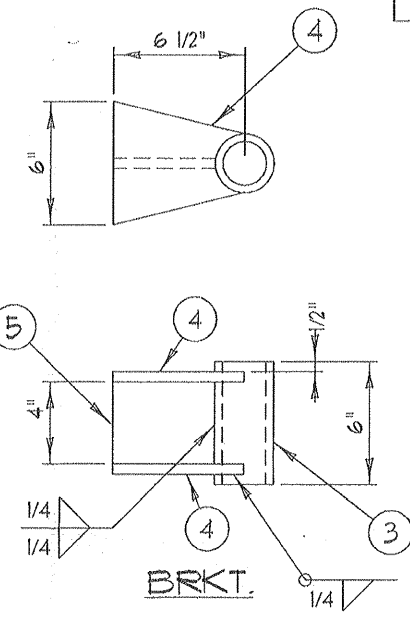
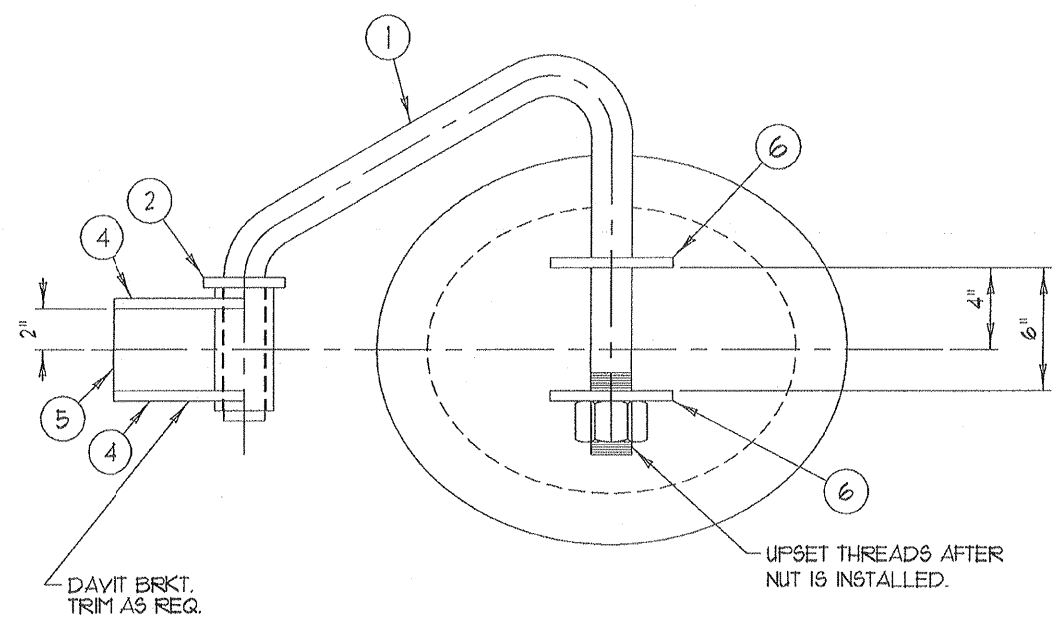
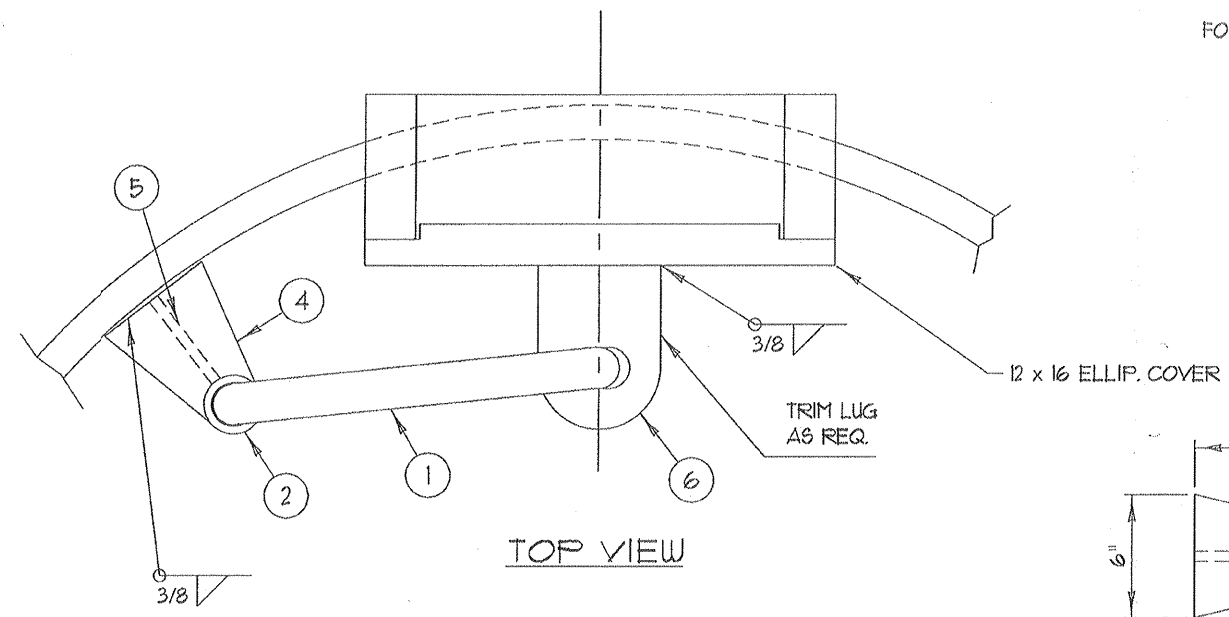
MWVM

NO EXCEPTIONS NOTED
Release for manufacture

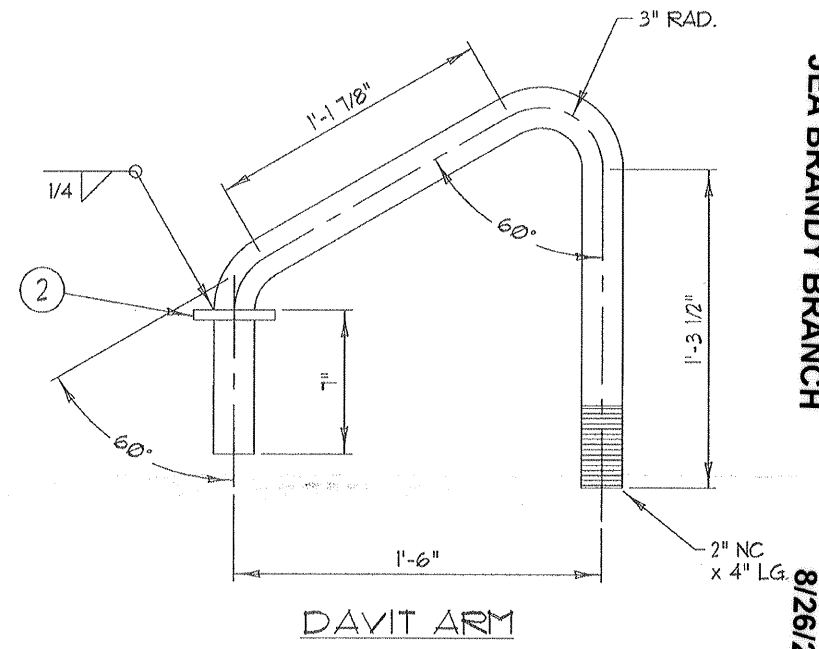
EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution

RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

W:\ENGIN\ENGINEER\10\10007-5C.dwg Tue Jul 30 15:46:24 2002



ITEM	QTY.	DESCRIPTION	MATERIAL
1	1	2" DIA. ROD DAVIT ARM (FORM) TOE x 45 3/4" REF	A36
2	1	1/2" FL. COLLAR 4" OD x 2 1/16" ID	A36
3	1	2 1/2" SCH 160 PIPE SLEEVE x 6"	SA106-B
4	2	1/2" FL. SLEEVE SUPPT. 6" x 6 1/2"	A36
5	1	1/2" FL. GUSSET 4" x 5"	A36
6	2	1/2" FL. DAVIT LUG 6" x 8"	A36
7	1	2"- 4 1/2 NC HEX NUT	SA194-2H



M010322-201A107 RA
JEA BRANDY BRANCH
8/26/2002

NOOTER/ERIKSEN, INC.
5000 CEDAR PLAZA PARKWAY
ST. LOUIS, MO. 63128
VENDOR SUBMITTAL REVIEW
NEW RESUBMITTAL

STATUS:
 A. REVIEWED AND ACCEPTED
 B. REVIEWED WITH COMMENTS (WORK MAY PROCEED)
 C. REVISE AND RESUBMIT (WORK MAY NOT PROCEED)
 D. REVIEWED FOR INFORMATION ONLY

REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OR DIMENSIONS AND COMPLIANCE TO CODES
 NOOTER/ERIKSEN SPECIFICATIONS AND P.O. REQUIRED
 SIGNED: *[Signature]*
 DATE: 8-15-02

APPROVED
For Production
Order No. 10007-18
Date _____
By _____

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING
MTM

NO EXCEPTIONS NOTED
Release for manufacture

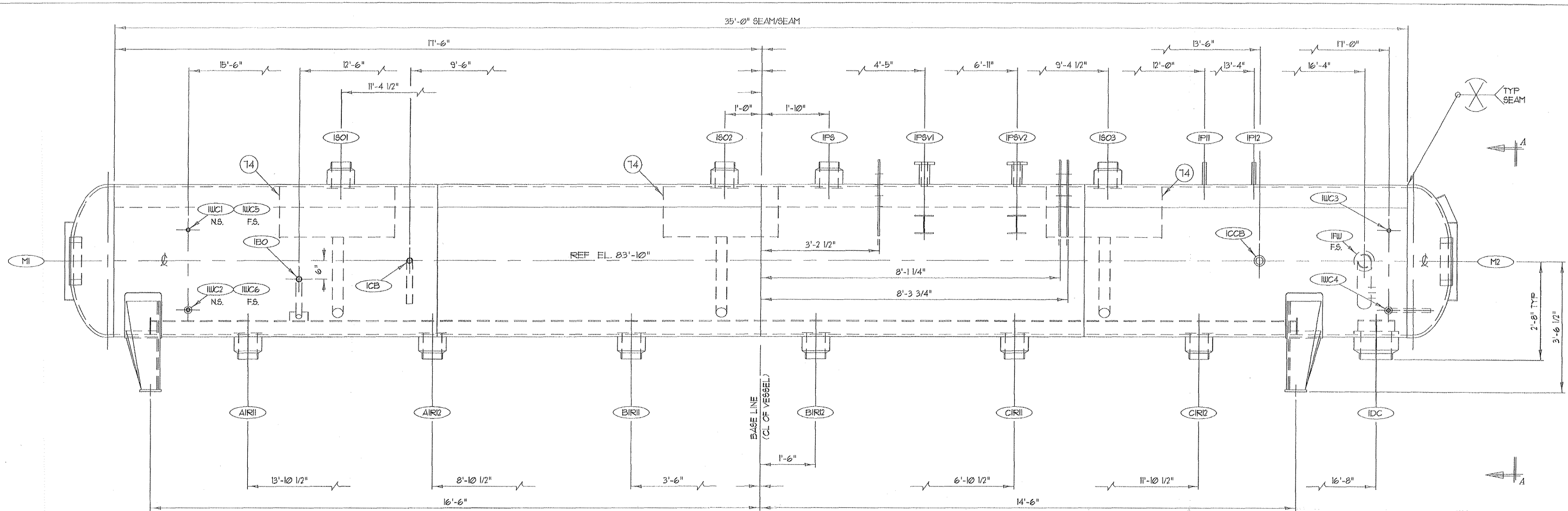
EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution

RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

NO.	DATE	REVISION	BY
7			
6			
5			
4			
3			
2			
1			
NO.	DATE	REVISION	BY

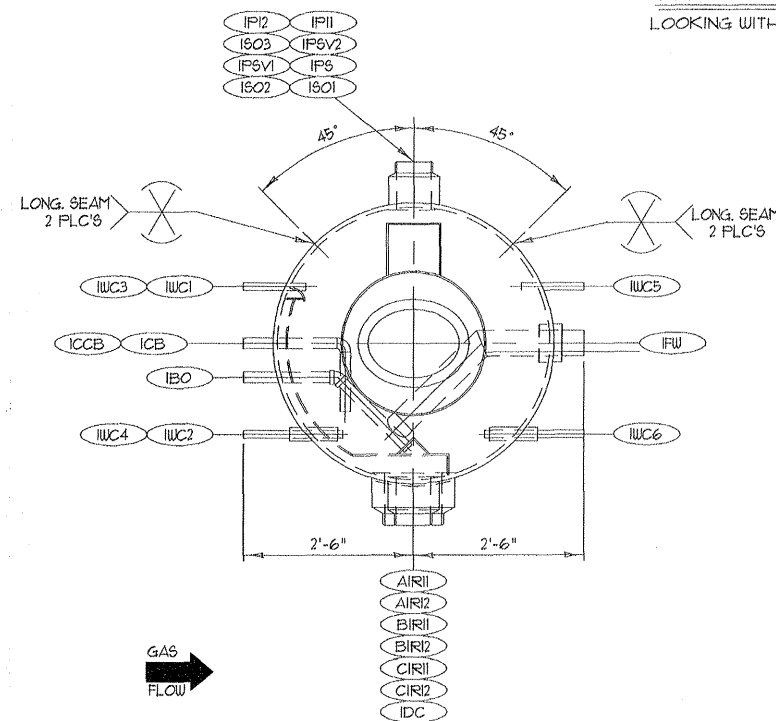
7			
6			
5			
4			
3			
2			
1			
NO.	DATE	REVISION	BY

Nooter/Eriksen	Release Date: 8-15-02
Project: JEA BRANDY	Job No. Code Sht. Rev FE
NE Drawing No. 014145-HD-006	A X
ARROW TANK & ENGINEERING CO. MINNEAPOLIS-CAMBRIDGE MINNESOTA	
12" x 16" ELLIP DAVIT ASSY HP REMOTE STEAM DRUM	
DRAWN BY 115	CUSTOMER PO# 17565
CHECKED ---	NOOTER / ERIKSEN
SCALE 1/6	SHEET DRAWING NO.
DATE 7-30-02	6 OF 7 C10007-18

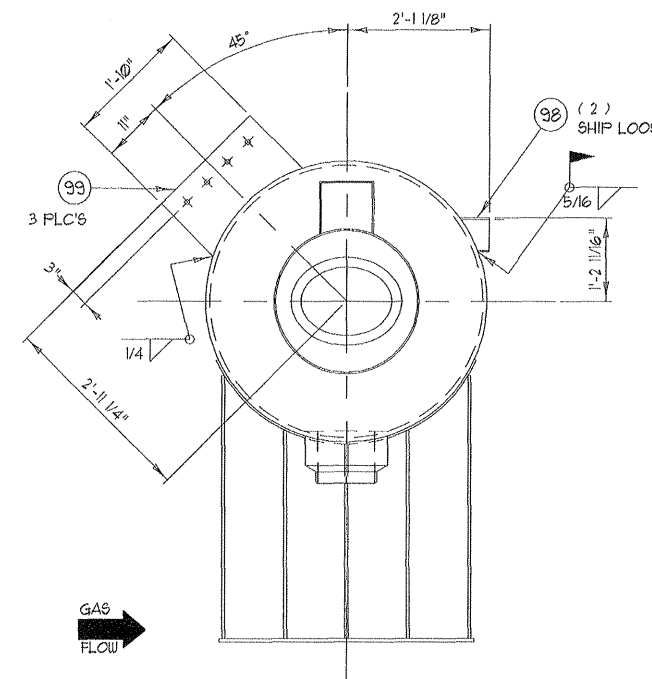


ELEVATION VIEW
LOOKING WITH GAS FLOW

NOZZLE SCHEDULE			
MARK	QTY	SIZE (MATING)	SERVICE
AIR11	1	6" (SCH 40) B.W. FORGING	RISER
AIR12	1	6" (SCH 40) B.W. FORGING	RISER
BIR11	1	6" (SCH 40) B.W. FORGING	RISER
BIR12	1	6" (SCH 40) B.W. FORGING	RISER
CIR11	1	6" (SCH 40) B.W. FORGING	RISER
CIR12	1	6" (SCH 40) B.W. FORGING	RISER
IBO	1	1 1/2" (SCH 80) SQ. CUT	BLOWOFF
ICB	1	1 1/2" (SCH 80) SQ. CUT	BLOWDOWN
ICCB	1	3" (SCH 160) B.W. PIPE	CASC BLOWDOWN
IDC	1	10" (SCH 40) B.W. FORGING	DOWNCOMER
IFW	1	4" (SCH 40) B.W. PIPE	FEEDWATER
IP11	1	1" (SCH 40) SQ. CUT	PRESSURE IND.
IP12	1	1" (SCH 40) SQ. CUT	PRESSURE IND.
IP5	1	6" (SCH 40) B.W. FORGING	PEGGING STM
IPSV1	1	2" 300# LUNF RF	SAFETY VALVE
IPSV2	1	2" 300# LUNF RF	SAFETY VALVE
ISO1	1	6" (SCH 40) B.W. FORGING	STEAM OULET
ISO2	1	6" (SCH 40) B.W. FORGING	STEAM OULET
ISO3	1	6" (SCH 40) B.W. FORGING	STEAM OULET
IUC1	1	1" (SCH 80) SQ. CUT	WATER COL.
IUC2	1	1" (SCH 80) SQ. CUT	WATER COL.
IUC3	1	1" (SCH 80) SQ. CUT	WATER COL.
IUC4	1	1" (SCH 80) SQ. CUT	WATER COL.
IUC5	1	1" (SCH 80) SQ. CUT	WATER COL.
IUC6	1	1" (SCH 80) SQ. CUT	WATER COL.
M1	1	12" x 16" ELLIP	MANWAY
M2	1	12" x 16" ELLIP	MANWAY



VIEW A-A
(SHOWN W/OUT SADDLES)



SUPPORT CLIP LOCATIONS
TYP 2 FLC'S

Review does not relieve contractor from responsibility for errors or deviations from contract requirements
UTILITY ENGINEERING

MEM

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

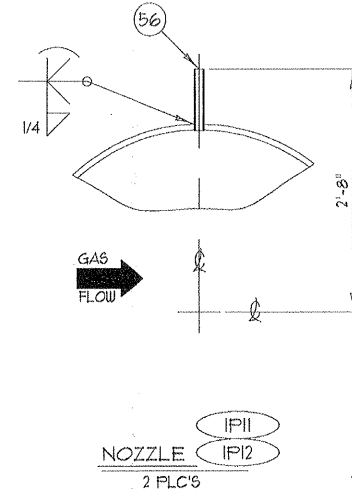
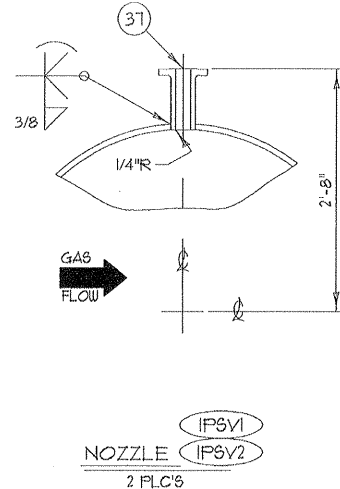
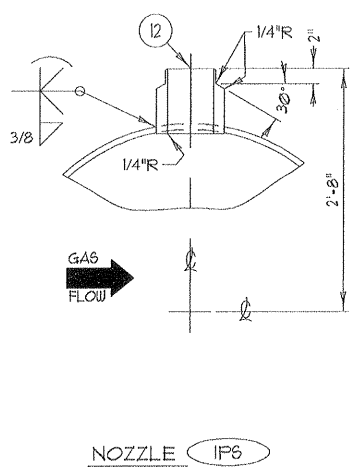
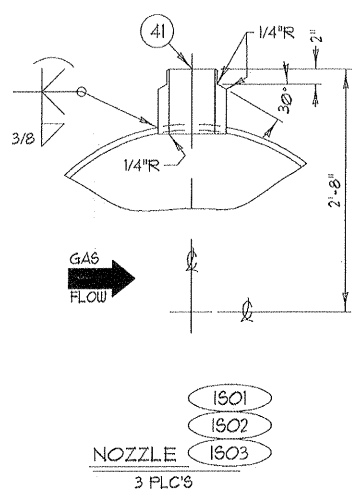
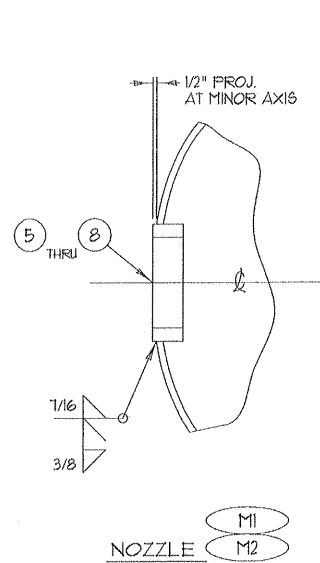
APPROVED
For Production
Order No. 10006-18
Date _____
By _____

SEE SHT 5 FOR DESIGN NOTES

NOTED/ERIKSEN, INC.
8000 CEDAR PLAZA PARKWAY
ST. LOUIS, MO. 63123
VENDOR QUALITY REVIEW
SUBMITTAL
REVIEWED AND ACCEPTED
REVISIONS WITH COMMENTS
WORK MAY PROCEED
REUSE AND REVISIONS
(WORK MAY NOT PROCEED)
REVISIONS FOR
INFORMATION ONLY
REVIEW OF VENDOR DRAWINGS
DOES NOT RELIEVE THE VENDOR
OF RESPONSIBILITIES FOR
ACCURACY OF DIMENSIONS AND
COMPLIANCE TO CODES.
NOTED/ERIKSEN'S REPRESENTATIONS
AND P.O. REQUIREMENTS
DATE: 9-18-02

Nooter/Eriksen	Release Date: 9-18-02
Project: JEA BRANDY	Job No. Code Sht. Rev FE
NE Drawing No. 014146-ID-001	B X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
FABRICATION	MACHINING
0-60 incl. ±1/8"	2-PLACES ±.03
60-120 incl. ±1/4"	3-PLACES ±.015
OVER 120 ±1/2"	
ANGLES ±1/2"	

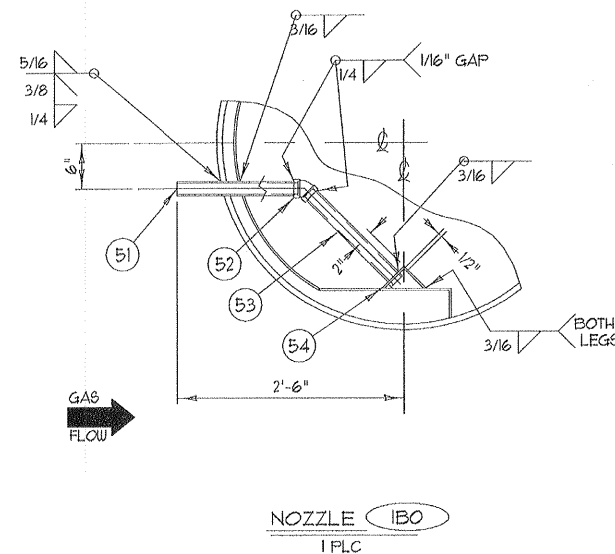
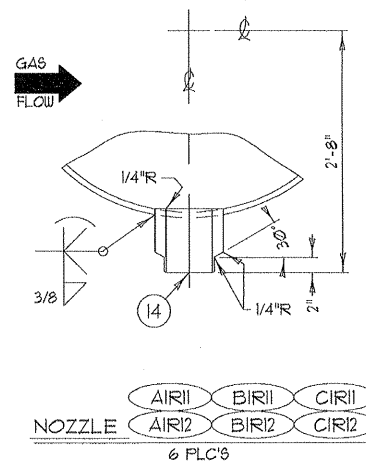
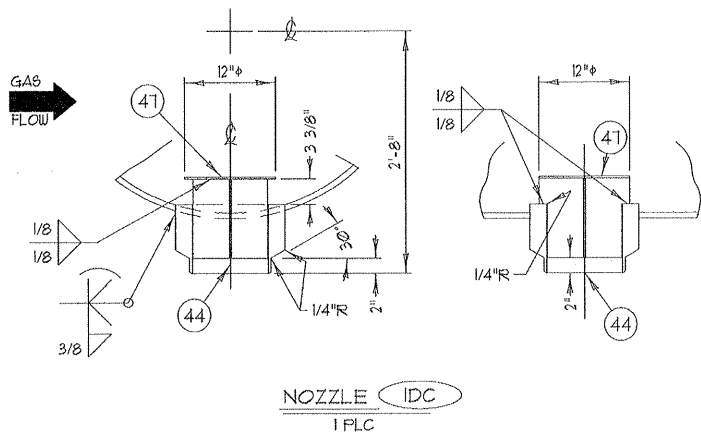
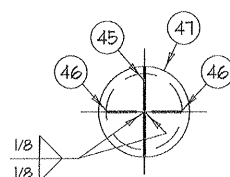
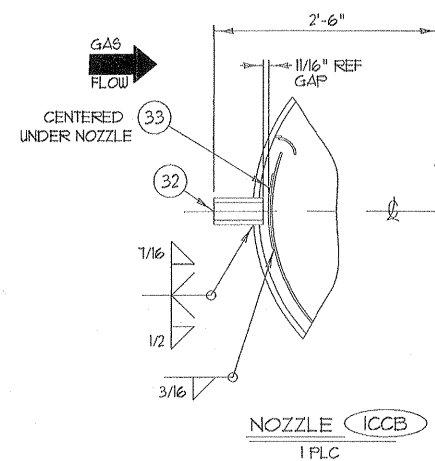
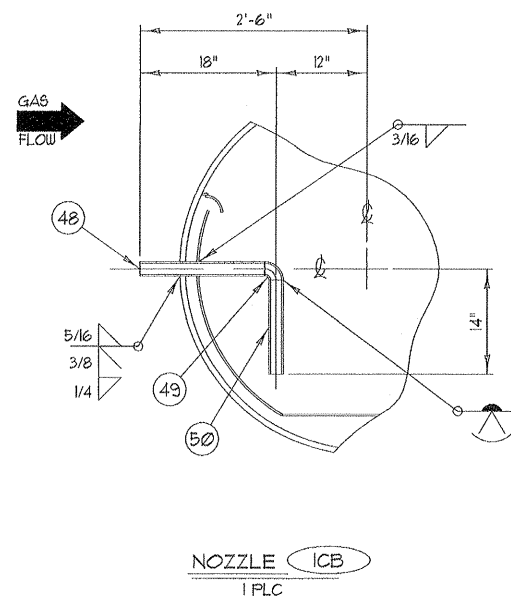
7					
6					
5					
4					
3					
2					
1	9-10-02	PER CUSTOMER COMMENTS	VJ5	SCALE 1/16	SHEET 1 OF 1
NO.	DATE	REVISION	BY	DATE	DRAWING NO.
				7-18-02	D10006-18



Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

WZM



- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

APPROVED
For Production
Order No. 10006-18
Date _____
By _____

NOTER/ERIKSEN, INC.
5800 COOK PLYMOUTH
ST. LOUIS, MO. 63129

REVIEWED AND ACCEPTED
REVIEWED WITH COMMENTS
PROGRAM PRICES
REVISE AND RESUBMIT
(DATE MAY NOT PROCEED)
REVIEWED FOR
INFORMATION ONLY

REVIEW OF VENDOR DRAWINGS
DOES NOT RELIEVE THE VENDOR
OF RESPONSIBILITY FOR
CORRECTNESS OF DESIGN AND
COMPLIANCE TO CODES
AND REGULATIONS
AND FOR THE QUALITY OF
MATERIALS
DATE: 9-18-02

Nooter/Eriksen	Release Date	9-18-02
Project	JEA BRANDY	Job No. Code Sht. Rev FE
NE	Drawing No.	014146-ID-002 B X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)		
FABRICATION	MACHINING	
0-60 incl. ±1/8"	2-PLACES ±.03	
60-120 incl. ±1/4"	3-PLACES ±.015	
OVER 120 ±1/2"	ANGLES ±1/2"	

7				
6				
5				
4				
3				
2				
1	9-10-02	PER CUSTOMER COMMENTS	VJS	
NO.	DATE	REVISION	BY	DATE
				7-18-02

ARROW TANK & ENGINEERING CO.
MINNEAPOLIS-CAMBRIDGE MINNESOTA

NOZZLE WELDMENT DETAILS
IP REMOTE STEAM DRUM

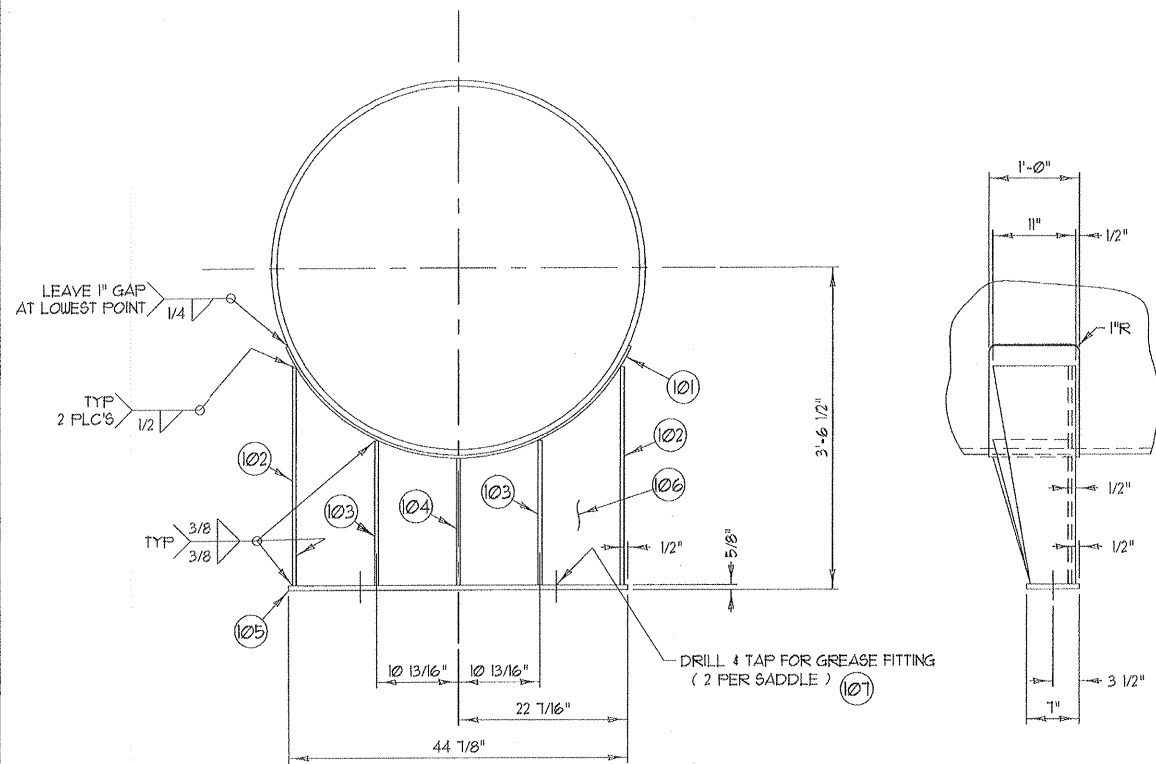
DRAWN BY: VJS CUSTOMER: FO# 11566

CHECKED: --- NOOTER / ERIKSEN

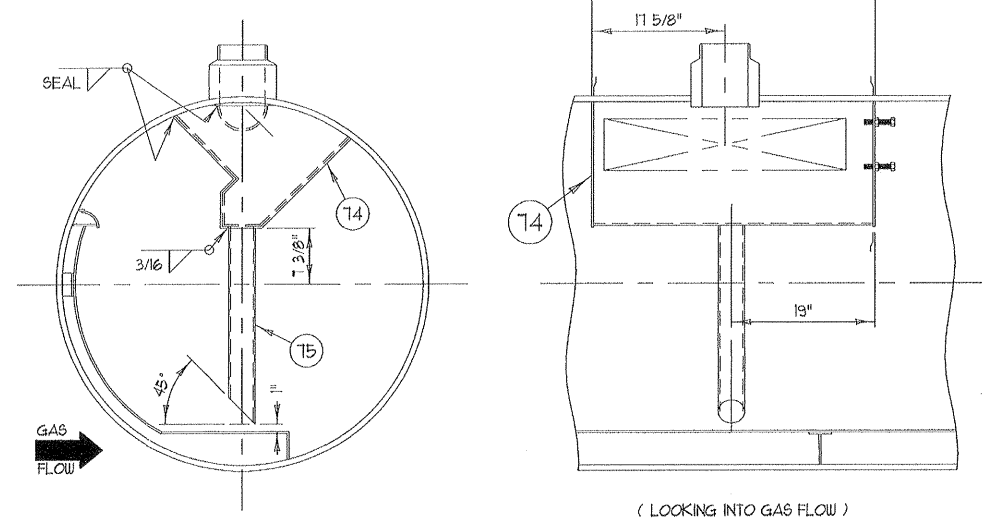
SCALE: 1/12 SHEET: DRAWING NO.

NO. OF 1 D10006-18

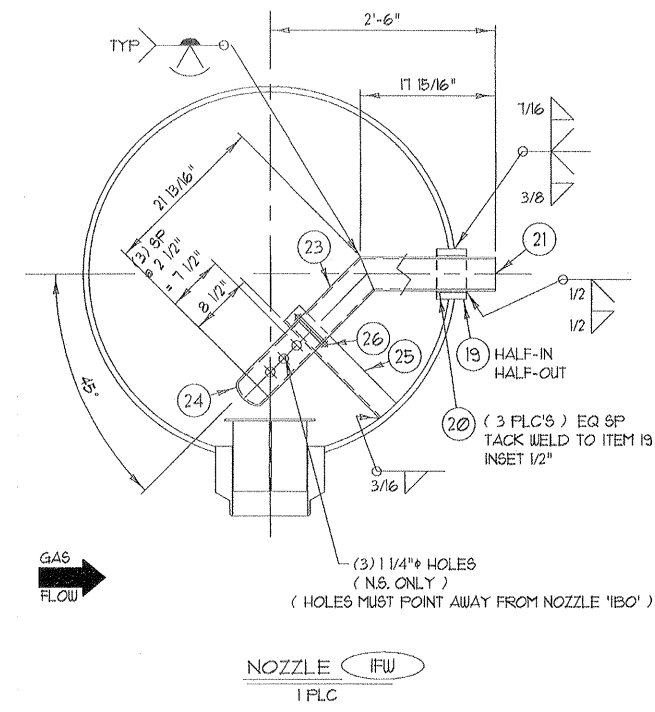
M010322-201A109 RB
JEA BRANDY BRANCH
9/24/2002



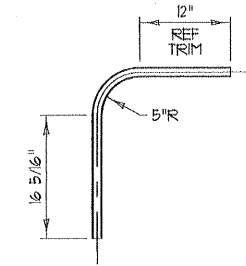
SADDLE DETAIL
TYP 2 FLC'S



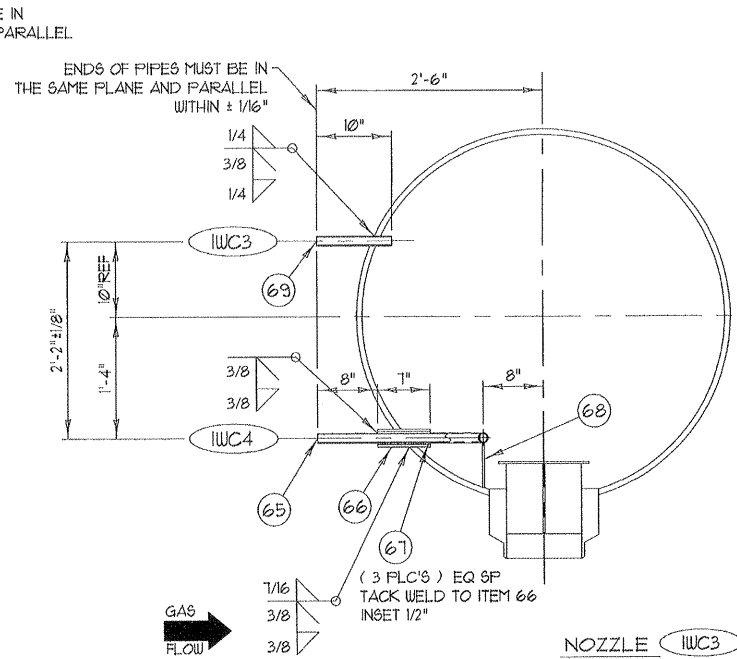
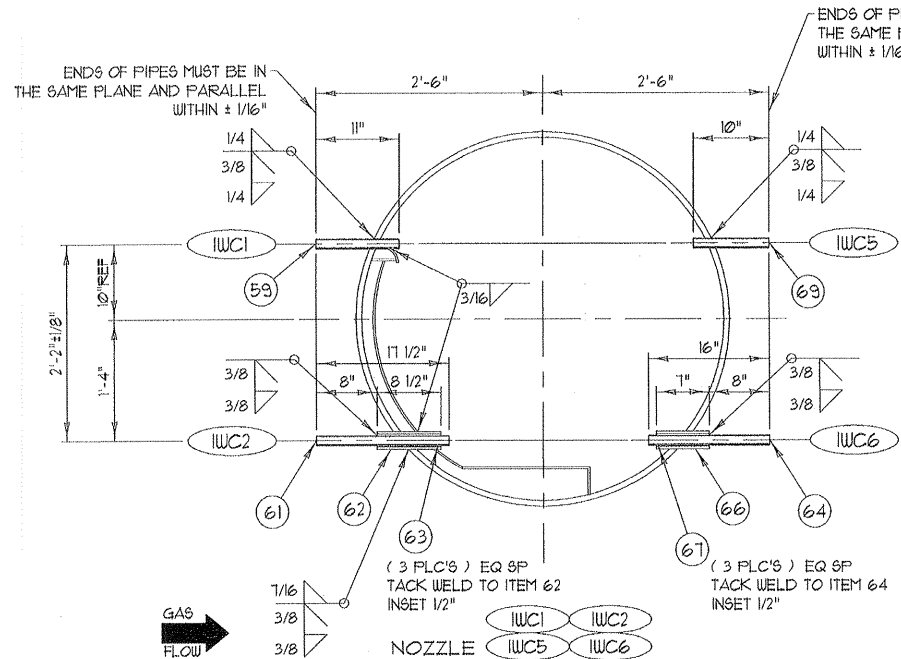
SEE NE DRWG 014146-ID-010
STEAM SEPARATOR DETAIL
TYP 3 FLC'S



NOZZLE IFW
1 FLC



ITEM 69
1 REQ'D



NOZZLE IWC3 IWC4

M010322-201A110 RB
JEA BRANDY BRANCH **9/24/2002**

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

NO EXCEPTIONS NOTED
Release for manufacture

EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution

RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

WPK

APPROVED
For Production
Order No. 10006-18
Date _____
By _____

NOTED/ERIKSEN, INC.
6040 CEDAR PLAZA PARKWAY
ST. LOUIS, MO 63129
VENDOR QUALITY REVIEW
RESUBMIT TOL.
DATE: 9-18-02

Nooter/Eriksen		Release Date: 9-18-02	
Project: JEA BRANDY		Job No. Code	Sht. Rev. FE
NE Drawing No. 014146-ID-003		B	X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			
FABRICATION		MACHINING	
0-60 incl.	±1/8"	2-PLACES	±.03
60-120 incl.	±1/4"	3-PLACES	±.015
OVER 120	±1/2"		
ANGLES	±1/2"		
ARROW TANK & ENGINEERING CO. MINNEAPOLIS-CAMBRIDGE MINNESOTA			
DETAILS			
IP REMOTE STEAM DRUM			
DRAWN BY	WJS	CUSTOMER	PO# 17566
CHECKED	---	NOOTER / ERIKSEN	
SCALE	1/12	SHEET	DRAWING NO.
NO. DATE	1-19-02	3 of 7	D10006-18

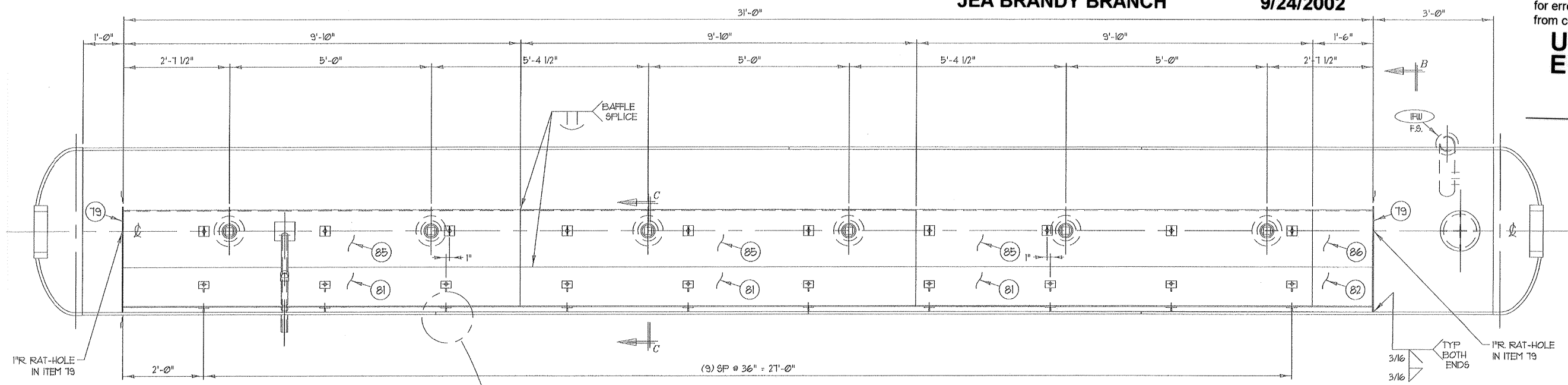
7			
6			
5			
4			
3			
2			
1	9-10-02	PER CUSTOMER COMMENTS	vjs
NO. DATE		REVISION	BY

M010322-201A111 RB
JEA BRANDY BRANCH

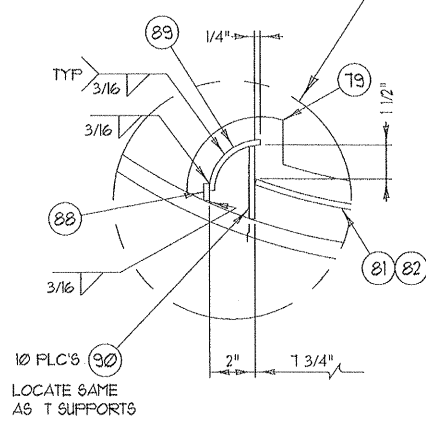
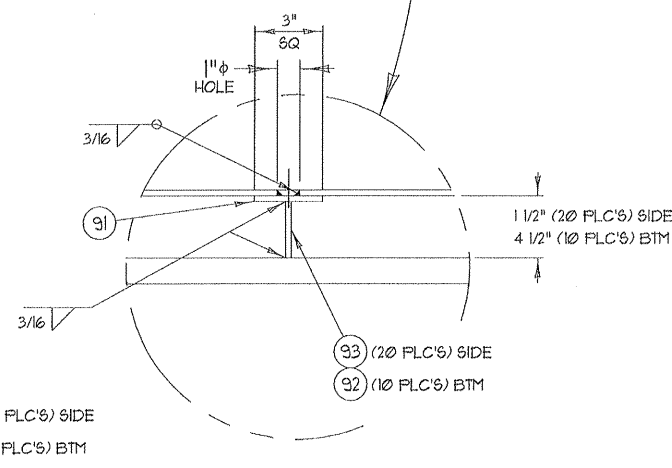
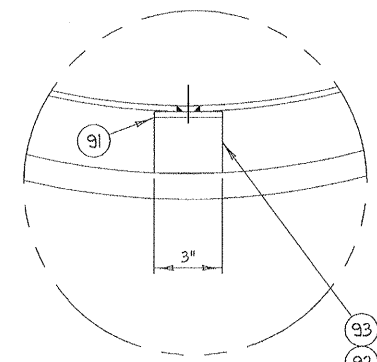
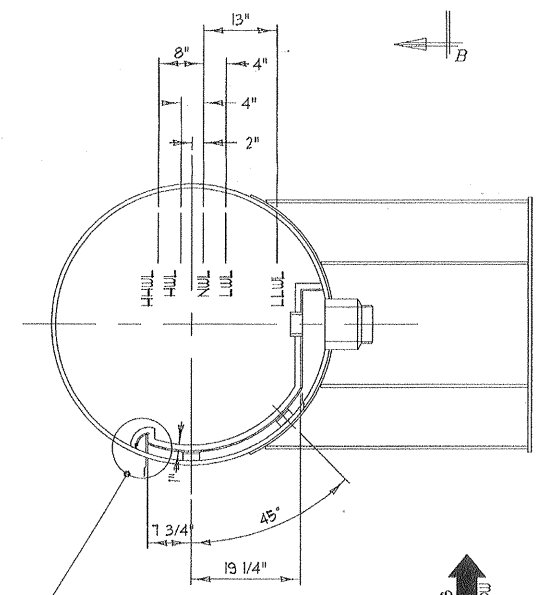
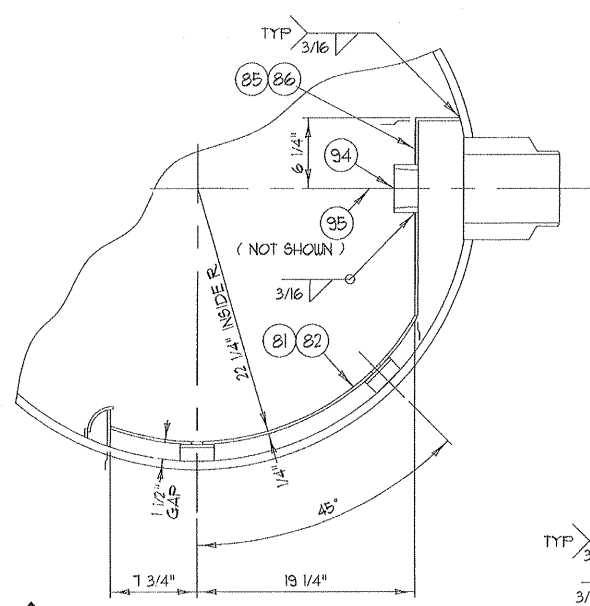
9/24/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements
UTILITY ENGINEERING

WJW



BAFFLE DETAIL - PLAN VIEW



- NO EXCEPTIONS NOTED**
 Release for manufacture
 EXCEPTIONS NOTED
 Release for manufacture
 Return and resubmit for distribution
 RETURNED FOR CORRECTION
 Do not proceed
 Return and resubmit for authorization

APPROVED
For Production
Order No. 10006-18
Date _____
By _____

NOTER/ERIKSEN, INC.
5900 CEDAR PLAZA PARKWAY
ST. LOUIS, MO. 63133
VELOCITY CAPITAL REVIEW
DATE: 9-18-02

Nooter/Eriksen	Release Date: 9-18-02
Project: JEA BRANDY	Job No. Code Sht. Rev. FE
NE Drawing No. 014146-ID-004	B X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	
FABRICATION	MACHINING
0-60 incl. ±1/8"	2-PLACES ±.03
60-120 incl. ±1/4"	3-PLACES ±.015
OVER 120 ±1/2"	
ANGLES ±1/2°	

ARROW TANK & ENGINEERING CO.	
MINNEAPOLIS-CAMBRIDGE MINNESOTA	
BAFFLE DETAILS	
IP REMOTE STEAM DRUM	
DRAWN BY: <i>WJS</i>	CUSTOMER: PO# 17506
CHECKED: ---	NOOTER / ERIKSEN
SCALE: 1/16	SHEET: DRAWING NO.
NO. DATE REVISION	BY DATE
1 9-10-02 PER CUSTOMER COMMENTS	VJS DATE 7-22-02
4 OF 1	D10006-18

UTILITY
ENGINEERING

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

ITEM	QTY	DESCRIPTION	NOZ. MARK	MATERIAL	SHIP	SIG
1	2	48" ID ASME 2:1 ELLIP. HEAD 7/8" NOM. 2" SF 2-1 RATIO .150" MIN.		SA516-10		
2	4	3/4" PL. SHELL 105" x 153 3/16" ROLL 48" ID		SA516-10		
3						
4						
5	2	12" x 16" ELLIP. MWY COMPLETE w/ 1 3/4" x 4" RING	M1, M2	SA1025		
6	8	12" x 16" ELLIP. GASKET 1" WIDE x 1/8" THK REINF FLEXIBLE GRAPHITE W/ 9TN. 9TL. FOIL INSERT AND CORROSION INHIBITED PRESSURE SENSITIVE ADHESIVE ON (1) SIDE	M1, M2	---	8	
7	2	DAVIT ARM ASSY (SEE DWG. C10006-18)	M1, M2	C.S.		
8						
9						
10						
11						
12	1	6" (SCH 40) BW FORGING 9" OD 8 1/2" LG	IPS	SA1025		
13						
14	6	6" (SCH 40) BW FORGING 9" OD 8 1/2" LG	AIR1, AIR2, BIR1, BIR2, CIR1, CIR2	SA1025		
15						
16						
17						
18						
19	1	6" (XXS) PIPE (SLEEVE) x 4"	IFW	SA1006-B		
20	3	3/16" BAR SPACER x 1"	IFW	SA36		
21	1	4" (SCH 40) PIPE 22 1/2" M.O.E./B.O.E x 11 15/16"	IFW	SA1006B		
22						
23	1	4" (SCH 40) PIPE 22 1/2" M.O.E./B.O.E. x 21 13/16" w/ HOLES	IFW	SA1006B		
24	1	4" (SCH 40) WLD CAP	IFW	SA234-WFPB		
25	1	1.3"x 3"x 1/4" PIPE SUPPORT x 18 5/16"	IFW	SA36		
26	1	4" PIPE U - BOLT (1/2" NC)	IFW	C.S.		
27						
28						
29						
30						
31	1	3" (XXS) PIPE B.O.E. x 6 1/2"	ICCB	SA1006B		
32	1	1/4" PL WEAR PAD 10" x 10"	ICCB	9TN. 9TL.		
33						
34						
35						
36						
37	2	2" - 300# LUNF RF (CUT 8 1/8" LG)	IFSV1 & IFSV2	SA1025		
38						
39						
40						
41	3	6" (SCH 40) BW FORGING 9" OD 8 1/2" LG	1S01, 1S02, 1S03	SA1025		
42						
43						
44	1	10" (SCH 40) BW FORGING 14 1/2" OD 9 3/16" LG	IDC	SA1025		
45	1	1/4" PL VORTEX 10 9/16" x 12"	IDC	SA36		
46	2	1/4" PL VORTEX 4 13/16" x 10 9/16"	IDC	SA36		
47	1	1/4" PL VORTEX CAP 12" DIA.	IDC	SA36		
48	1	1 1/2" (SCH 80) PIPE B.O.E. x 16 1/2"	ICB	SA1006B		
49	1	1 1/2" (SCH 80) 90° WLD EL. LR.	ICB	SA234-WFPB		
50	1	1 1/2" (SCH 80) PIPE B.O.E. x 12 1/2"	ICB	SA1006B		
51	1	1 1/2" (SCH 80) PIPE x 16 1/16"	IBO	SA1006B		
52	1	1 1/2" 300# 45° SW ELBOW	IBO	SA1025		
53	1	1 1/2" (SCH 40) PIPE x 16 9/16"	IBO	SA1006B		
54	1	L 4" x 4" x 1/4" CLIP X 6" LG. w/ 2" HOLE	IBO	SA36		
55						
56	2	1" (SCH 40) PIPE x 8 1/8"	IP11, IP12	SA1006B		
57						
58						
59	1	1" (SCH 80) PIPE x 11"	IWC1	SA1006B		
60						
61	1	1" (SCH 80) PIPE x 11 1/2"	IWC2	SA1006B		
62	1	2" (SCH 160) PIPE x 8 1/2"	IWC2	SA1006B		
63	3	3/16" BAR SPACER x 1"	IWC2	SA36		
64	1	1" (SCH 80) PIPE x 16"	IWC6	SA1006B		
65	1	1" (SCH 80) PIPE x 38" FORM 1 (SEE SHT 3)	IWC4	SA1006B		
66	2	2" (SCH 160) PIPE x 7"	IWC4, IWC6	SA1006B		
67	6	3/16" BAR SPACER x 1"	IWC4, IWC6	SA36		
68	1	2"x 1/4" BAR PIPE SUPPORT x 6 3/4" TRIM	IWC4	SA36		
69	2	1" (SCH 80) PIPE x 10"	IWC3, IWC5	SA1006B		
70						

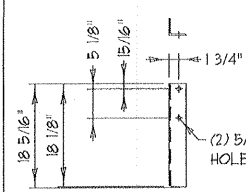
INT. BAFFLE ASSY. (SEE SHT 4)

SADDLE ASSY. (SEE SHT 3)

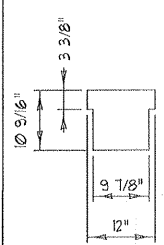
ITEM	QTY	DESCRIPTION	MATERIAL	SHIP	SIG
71					
72					
73					
74	3	CHEVRON STEAM SEPARATOR (SEE SHT 3)	C.S.		
75	3	3" (SCH 40) PIPE 45" M.O.E. x SHOP CHECK LG (SEE SHT 3)	SA1006B		
76					
77					
78					
79	2	1/4" PL. BAFFLE END (PLASMA)	SA36		
80					
81	3	1/4" PL UPPER BAFFLE 118" x 31 1/4" ROLL 22 1/4" LR	SA36		
82	1	1/4" PL UPPER BAFFLE 18" x 31 1/4" ROLL 22 1/4" LR	SA36		
83					
84					
85	3	1/4" PL LOWER BAFFLE 20 13/16" x 118" FORM 3 1/16" I T 1/8"	SA36		
86	1	1/4" PL LOWER BAFFLE 20 13/16" x 18" FORM 3 1/16" I T 1/8"	SA36		
87					
88	1	1/4" x 3/4" BAR TOP PLATE x 31"-0"	SA36		
89	1	4" (STD WT) PIPE x 93" (SPLIT INTO 1/4)	SA1006B		
90	10	2" x 1/4" BAR CAP CLIPS x 3 3/16"	SA36		
91	30	3" x 1/4" BAR T-SUPPORT TOP x 3"	SA36		
92	10	3" x 1/4" BAR T-SUPPORT LEG x 4 3/16"	SA36		
93	20	3" x 1/4" BAR T-SUPPORT LEG x 1 3/16"	SA36		
94	6	3" 300# NPT HALF CPLG.	SA1025		
95	6	3" 300# NPT SQ. HEAD PLUG	SA1025		
96					
97					
98	2	1/6" x 15" PIPE SUPPORT BRKT x 5 3/16" (SHIP LOOSE)	SA36	2	
99	3	1/2" PL. PLATFORM BRKT 13 1/16" x 22" (SEE SHT 1)	SA36		
100					
101	2	3/8" PL. PAD 12" x 58" 1" R CORNERS 4 ROLL 24 3/4" IR	SA516-10		
102	4	1/2" PL. SIDE 11" x 28 3/4"	SA516-10		
103	4	1/2" PL. GUSSET 10" x 19 1/16"	SA516-10		
104	2	1/2" PL. GUSSET 10" x 16 3/4"	SA516-10		
105	2	5/8" PL. BASE 7" x 44 1/8"	SA516-10		
106	2	1/2" PL. RIP 28 3/4" x 42 1/8"	SA516-10		
107	4	GREASE FITTING	STEEL		
108					
109					
110	1	1/4" x 3" BAR SHROUD X 27" LG. FORM 9" 9" 9"	SA36		
111	2	1/4" x 3" BAR SHROUD X 79 5/16" LG. ROLL 25" ID.	SA36		
112	1	SECTION 1 STAMPING	----		

NOTES:

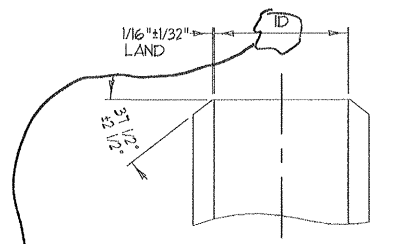
- 1- TWO (2) VESSELS REQ'D.
- 2- ASME "S" STAMP REQ'D.
- 3- DESIGNED BY NOOTER/ERIKSEN, CONSTRUCTED BY ARROW TANK.
- 4- WELD PROCEDURES F32HT, S35HT, S1HT, FIHT, AIDHT & A3HT APPLY.
- 5- INTERIOR: GRITBLAST PER SSPC-SP6 USING STEEL SHOT ONLY PRIOR TO FAB & APPLY (1) COAT OF LEEDER 228 RUST INHIBITOR.
- 6- EXTERIOR: GRITBLAST PER SSPC-SP6 & APPLY (1) COAT OF CARBOZINC II (GREEN) (3-5 MIL DFT) EXCEPT WITHIN 4" OF FIELD WELD BEVELS
- 7- MARK IN 3" HIGH LETTERS IN (2) PLACES: "N/E JOB# : 013318" "IP REMOTE STEAM DRUM" "WEIGHT: 38,000# APPROX. W/ INTERNALS" "OTAY MESA I PROJECT"
- 8- PAINT GAS FLOW ARROW ON EACH END OF DRUM. SEE N/E ERECTION MANUAL FOR SITE LIFT/ STORAGE REQUIREMENTS.
- 9- NOOTER WILL SUPPLY CHEVRON, INSTALL PRIOR TO WELDING FINAL HEAD.
- 10- ARROW TANK WILL NOT DO A SHOP HYDRO.
- 11- TEMP. ATTACH. MUST BE REMOVED PRIOR TO SHIPMENT AND THE AREA OF ATTACHMENT MUST BE MT OR PT EXAMINED.
- 12- MTR AND/OR COCS REQUIRED WHEREVER POSSIBLE.
- 13- NO MESH SHALL BE INSTALLED DURING PUHT.
- 14- MT TEST ALL NOZ. WELDS AFTER PUHT.
- 15- NDE PER ASME CODE, IN ADDITION 5% OF EACH WELDERS PRESSURE PART FULL PENETRATION BUTT WELDS NOT REQ'D PER CODE SHALL BE EXAMINED. SHOULD UNACCEPTABLE INDICATIONS BE REVEALED, AN ADDITIONAL 5% OF THE WELDS MADE BY THAT WELDER SHALL BE EXAMINED. IF UNACCEPTABLE, THEN ALL WELDS BY THAT WELDER SHALL BE EXAMINED.
- 16- ALL MANWAY BOLTING TO BE COATED W/ ANTIOSIEZE COMPOUND.
- 17- N/E TO BE NOTIFIED (5) WORKING DAYS IN ADVANCE OF START OF PRODUCTION & ANY INSPECTION / HOLD POINTS.
- 18- HOLD POINTS:
A- DIMENSIONAL & VISUAL BEFORE PUHT.
B- FINAL INSPECTION & DOCUMENT REVIEW. (INCLUDES VERIFICATION OF INTERNAL DRUM CLEANLINESS AFTER HYDROTEST AND BEFORE SHIPMENT)
- 19- EST. WT: 62,500# EMPTY W/ INTERNALS.



ITEM (25)
1 REQ'D



ITEM (45)
1 REQ'D

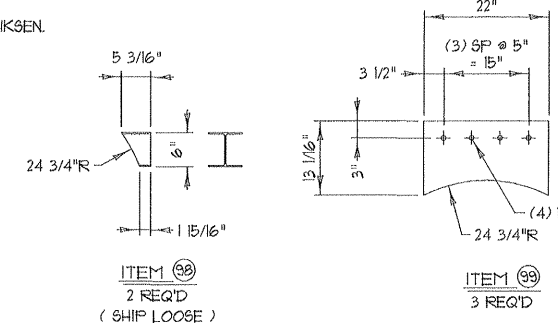


ITEM (21)
ID = 4" (SCH 40) = 4.054" MAX 4.004" MIN

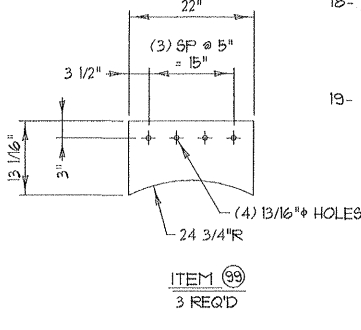
ITEM (33)
ID = 3" (SCH 160) = 2.703" MAX 2.653" MIN

BP
Provide
3:1 taper at
I.D. to xx-stk
pipe, 1/2" x 3/8"

BW FORGING DETAIL



ITEM (29)
2 REQ'D
(SHIP LOOSE)



ITEM (39)
3 REQ'D

DESIGN NOTES

1. Design per 1992 ASME Code Sec II
2. Heat Treating 15 Required
3. Radiographing RT-1 Required
4. Material:
Head: SA516-10
Shell: SA516-10
Cone: NA
5. Maximum Allowable stress:
Head: 20,000 PSI @ 485 F
Shell: 19,600 PSI @ 485 F
Cone: NA @ NA
6. Joint Efficiency:
Head: 100% Shell: 100%
Cone: NA
7. Corrosion Allowance:
Head: 1/6" Shell: 1/16"
Cone: NA Nozzle: 0"
8. Design Pressure:
Internal: 545 PSI @ 485 F
External: NA PSI @ NA F
9. Hydrostatic Test IN FIELD NA PSI
10. Vessel shall be cleaned inside and outside, free of dirt, grass, mill scale, weld spatter, etc. unless otherwise noted.
11. Flange bolt holes to straddle normal center line unless otherwise noted.
12. M.D.M.T. -20 F @ 545 PSI
Charpy impact test Exempt per UG-102(f)

CODE CASE 2191

STAMPING INFO.
(TO BE STAMPED ONTO R.H. HEAD)

CERTIFIED BY
ARROW TANK
& ENGINEERING
PART. MFRS SER NO. ----
YEAR BUILT 2002

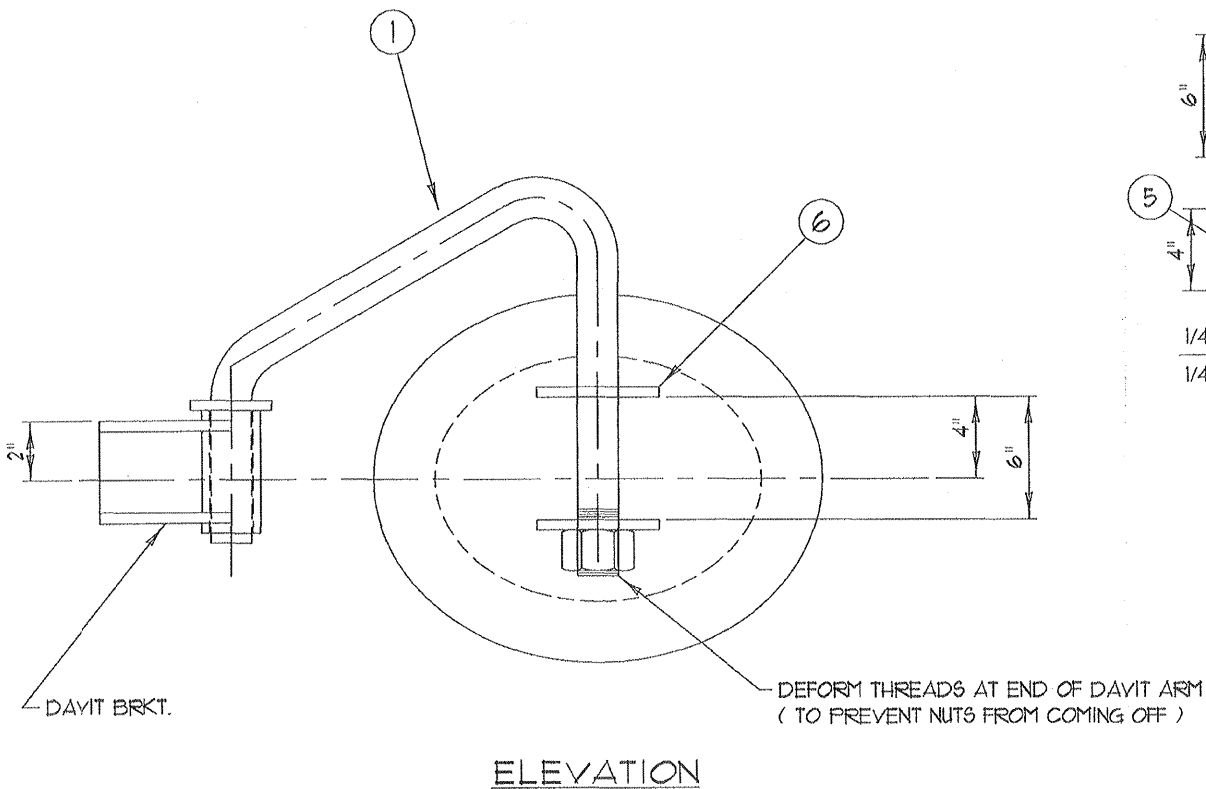
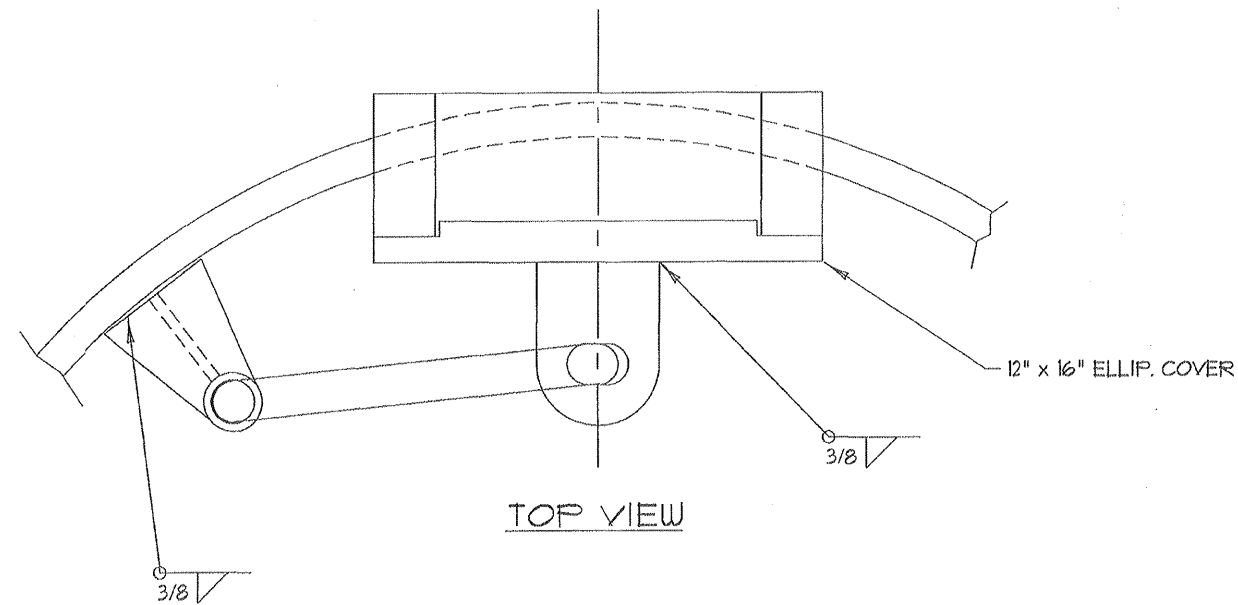
Review does not relieve
contractor from responsibility
for errors or deviations
from contract requirements

APPROVED
For Production
Order No. 10006-18
Date _____
By _____

Nooter/Eriksen			Release Date: 9-18-02
Project: JEA BRANDY			Job No. Code Sht. Rev. FE
NE Drawing No.			014146-ID-005 B X
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			
FABRICATION		MACHINING	
0-60 incl. ±1/8"		2-PLACES ±.03	
60-120 incl. ±1/4"		3-PLACES ±.015	
OVER 120 ±1/2"		ANGLES ±1/2"	

ARROW TANK & ENGINEERING CO. MINNEAPOLIS-CAMBRIDGE MINNESOTA			
BILL OF MATERIAL			
IP REMOTE STEAM DRUM			
DRAWN BY	CUSTOMER	PO#	IT566
CHECKED	---	NOOTER / ERIKSEN	
1	9-11-02	PER CUSTOMER COMMENTS	VJS
NO.	DATE	REVISION	BY
1	1-18-02	5 OF 1	D10006-18

H:\ENGIN\ENGINEER\10\10006-EC.dwg Tue Jul 23 13:03:49 2002



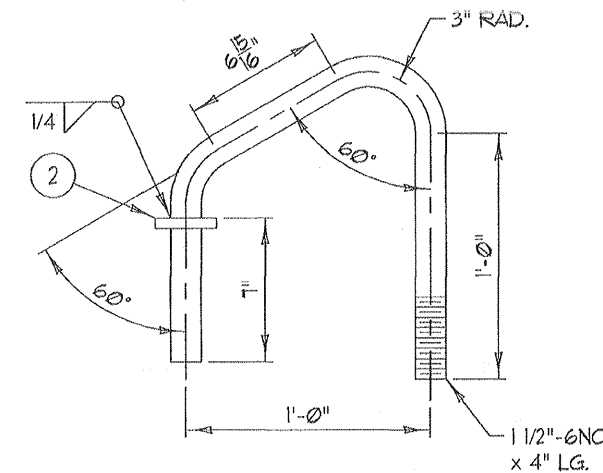
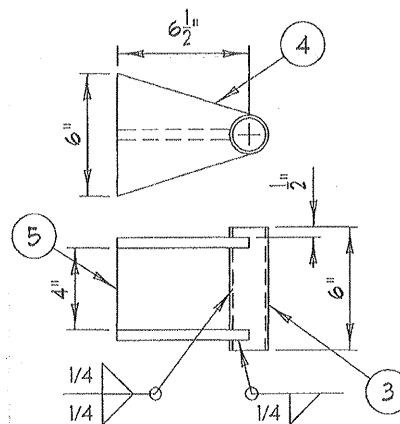
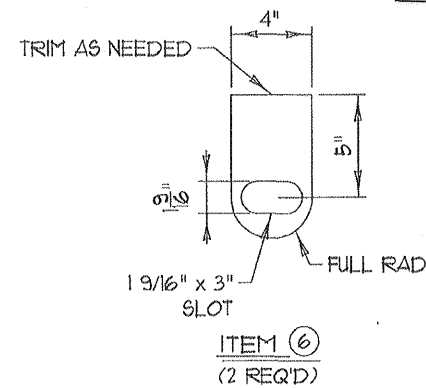
FORMING BY OTHER

ITEM	QTY.	DESCRIPTION	MATERIAL
1	1	1 1/2" DIA. ROD DAVIT ARM (FORM) TOE x 36"	A36
2	1	1/2" PL. COLLAR 3" OD x 1 9/16" ID	A36
3	1	1 1/2" SCH.160 PIPE SLEEVE x 6" LG.	SA106B
4	2	1/2" PL. SLEEVE SUPPT. 6" x 6 1/2"	A36
5	1	1/2" PL. GUSSET 4" x 5 9/16"	A36
6	2	1/2" PL. DAVIT LUG 4" x 7"	A36
7	1	1 1/2"-6NC HEX NUT	SA194-2H

Review does not relieve contractor from responsibility for errors or deviations from contract requirements
UTILITY ENGINEERING

MEM

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization



M010322-201A113 RA
JEA BRANDY BRANCH

8/26/2002

NOOTER/ERIKSEN, INC.
 6000 CEDAR PLAZA PARKWAY
 ST. LOUIS, MO. 63128
 VENDOR SUBMITTAL REVIEW
 NEW
 RESUBMITTAL
 STATUS:
 A. REVIEWED AND ACCEPTED
 B. REVIEWED WITH COMMENTS (WORK MAY PROCEED)
 C. REVISE AND RESUBMIT (WORK MAY NOT PROCEED)
 D. REVIEWED FOR INFORMATION ONLY
 REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITY FOR ACCURACY OR DIMENSIONS AND COMPLIANCE TO CODES
 NOOTER/ERIKSEN SPECIFICATIONS AND P.O. REVIEWED
 SIGNED: *CKV/BP*
 DATE: *8-15-02*

APPROVED
 For Production
 Order No. 10006-18
 Date _____
 By _____

Nooter/Eriksen	Release Date: <i>8-15-02</i>
Project: JEA BRANDY	Job No. Code Sht. Rev FE
NE Drawing No. 014146-ID-006	A X

7					
6					
5					
4					
3					
2					
1					
NO.	DATE	REVISION	BY	DATE	7-23-02

ARROW TANK & ENGINEERING CO.
 MINNEAPOLIS-CAMBRIDGE MINNESOTA
 12" x 16" ELLIP DAVIT ASSY
 IP REMOTE STEAM DRUM
 DRAWN BY *VIS* CUSTOMER *PO# 17566*
 CHECKED --- NOOTER / ERIKSEN
 SCALE *1/6* SHEET DRAWING NO.
 DATE *7-23-02* *6* OF *7* *C10006-18*

REQUIRED STANDARDS, SPECS AND DRAWINGS

STANDARD	DESCRIPTION
CA-09V-B	ACCESS DOOR 18" x 24"
CA-11V-C	RETAINER CLIP DETAIL
CA-12V-C	TEST CONNECTION
CA-13V-D	MODULE FLOOR DRAIN
CA-14V-D	BASE @ SELECTION
CA-15V-A	LINER PLATE LENGTH
CA-16V-B	ROOF BEAM VENTING
CA-19V-B	TADPOLE GASKET
CA-20V-A	INSULATION PINS
CA-21V-C	LINER RETAINER STUD
CA-22V-B	LINER WASHER
CA-23V-B	SUPPORT ANGLE
CA-24V-A	BATTEN CHANNEL
CA-25V-C	OBSERVATION PORT LAYOUT
CA-27V-A	HEADER RESTRAINT PEDESTAL
CA-29V-B	DIST GRID ACCESS DOOR
CA-45V-A	FIELD ERECTED CASING ASSY (PRIMARY)
CA-46V-A	LINERS FOR CASING ASSY (PRIMARY) (W/ COILS)
CA-47V-A	LINERS FOR CASING ASSY (PRIMARY) (NO COILS)
CA-48V-B	FIELD ERECTED CASING ASSY (SECONDARY)
CA-49V-A	LINERS FOR CASING ASSY (SECONDARY) (W/ COILS)
CA-50V-A	LINERS FOR CASING ASSY (SECONDARY) (NO COILS)
CA-51V-A	ROOF AND FLOOR BEAM CASING CUTOUTS
CA-52V-A	STUD LOCATIONS ON AND AROUND ROOF BEAMS
CB-07V-B	LOWER HEADER GAS BAFFLE
CB-20V-D	GAS BAFFLE
CB-21V-C	HIGH TEMP FABRIC EXP JOINT
CB-22V-D	LOW TEMP BOLTED PLATE SEAL
CB-28V-C	PACKING GLANDS
CB-29V-A	PACKING GLANDS
CD-0148-D	CORNER JOINT DETAIL
CD-0149-D	CORNER JOINT DETAIL
EJ-11V-F	EXPANSION BELLOWS
EJ-12V-F	FABRIC EXP BELT
EJ-14V-B	FABRIC EXP BELT
EJ-15V-B	FABRIC EXP BELT
FS-05V-A	FIELD DUCT CORNER AT ROOF WITH BATTEN CHANNELS
FS-06V-A	FIELD DUCT CORNER AT ROOF WITHOUT BATTEN CHANNELS PER N/E STD 'CA-29V'
FS-07V-A	FIELD FLOOR CORNER CONNECTION
FS-08V-A	FIELD INSTALLED CORNER ANGLES AROUND ROOF BEAM
FS-13V-B	ROOF FIELD SEAM TYPE 3
FS-15V-C	ROOF FIELD SEAM
FS-16V-C	ROOF FIELD SEAM
FS-18V-A	CROSS SECTION OF SEAM AT ROOF PANEL
FS-20V-A	INSULATION PINS AT FIELD SEAMS
FS-21V-A	STANDARD FIELD SEAM LAPS
LS-001-D	LINER STANDARD
MS-09V-E	MATERIALS SELECTION
MS-12V-B	GASKETING SPEC FOR CASING

STRUCTURAL CALCULATIONS
 STACK EXPANSION JOINT N/E DWG 014143
 EXPANSION BELLOWS N/E DWG 014143

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

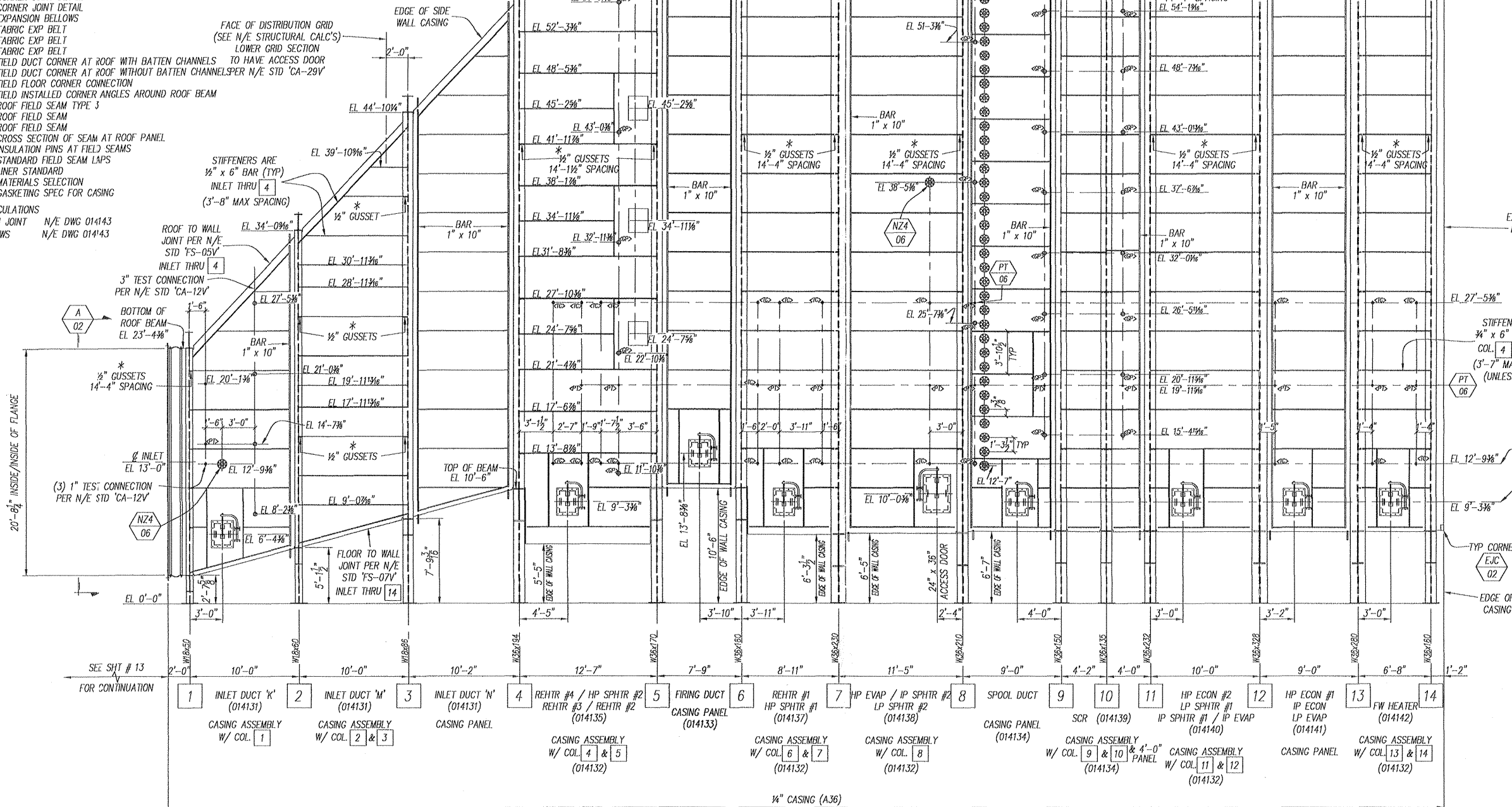
UTILITY ENGINEERING

MEM

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

* CASING, STIFFENERS & GUSSETS PER N/E STD 'CA-45V' & 'CA-48V' AND N/E DESIGN CALC'S

- NOTES:
- ALL FRAME CONNECTIONS PER N/E STRUCTURAL CALCULATIONS.
 - ALL EXTERIOR WELDS TO BE SEAL WELDS. SKIP WELDING OF STIFFENERS IS NOT ALLOWED.
 - FOR STRUCTURAL BEAMS AND COLUMN SIZES SEE STRUCTURAL CALCULATIONS.
 - FOR LINER LAYOUTS ARRANGEMENT SEE 014130-CL-N-05
 - FIELD JOINT DETAILS ARE SHOWN ON 014130-CL-N-06
 - EXTERNAL SURFACE TO BE SHOP COMMERCIAL BLASTED PER SSPC SP6 AND SHOP PAINTED WITH CARBOLINE CARBO ZINC 11 PRIMER (GREEN) 3 TO 5 MILS DFT. HOLD PRIMER BACK 4" FROM FIELD WELDS AND COAT WITH CARBOLINE CARBOWELD 11 (1 MIL DFT)
 - CASING PLATE JOINTS SHALL BE WELDED TOGETHER WITH FULL PENETRATION WELDS UNLESS LOCATED BEHIND CASING STIFFENERS.



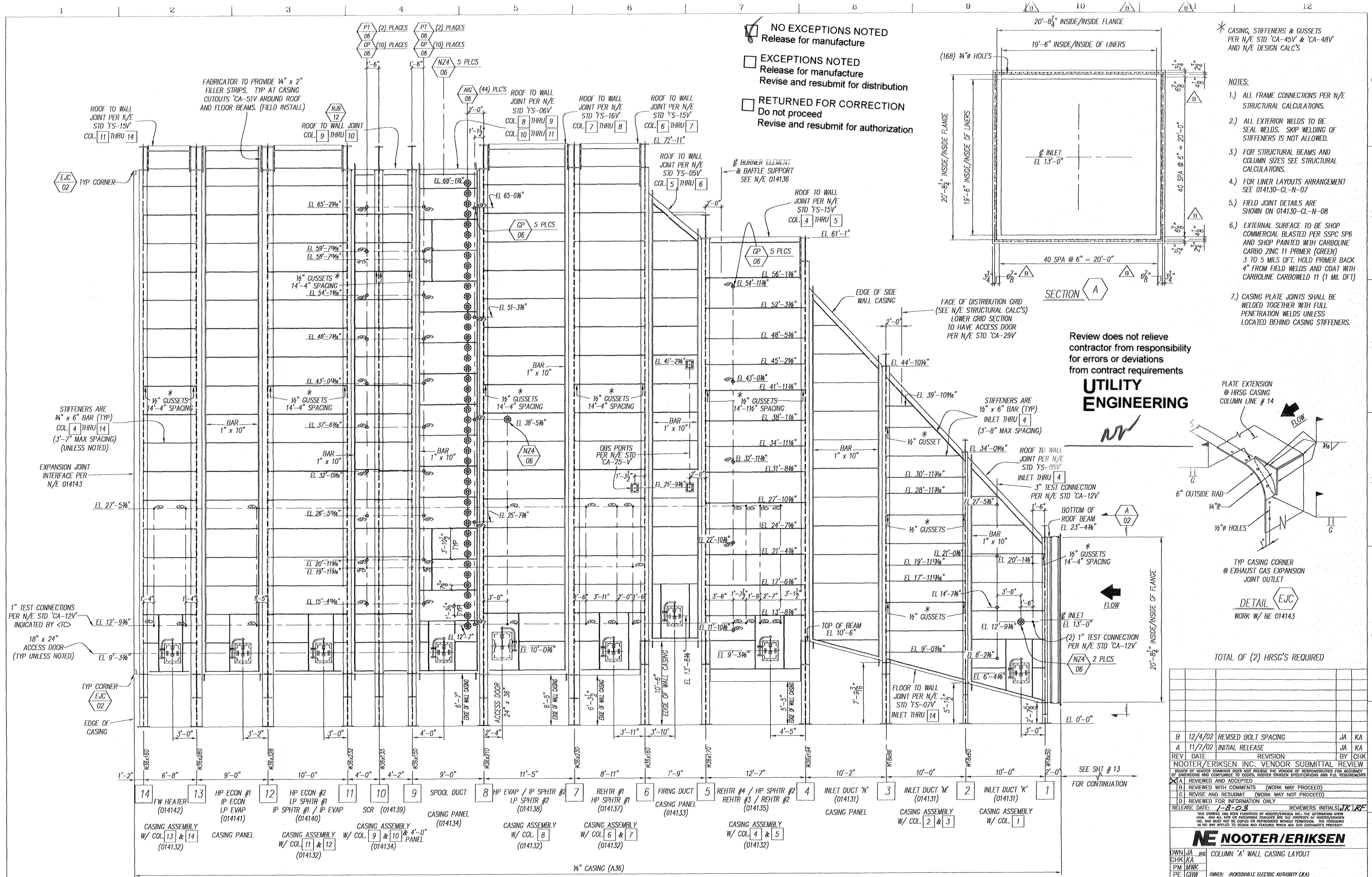
COLUMN 'B' WALL ELEVATION

11/13/2002

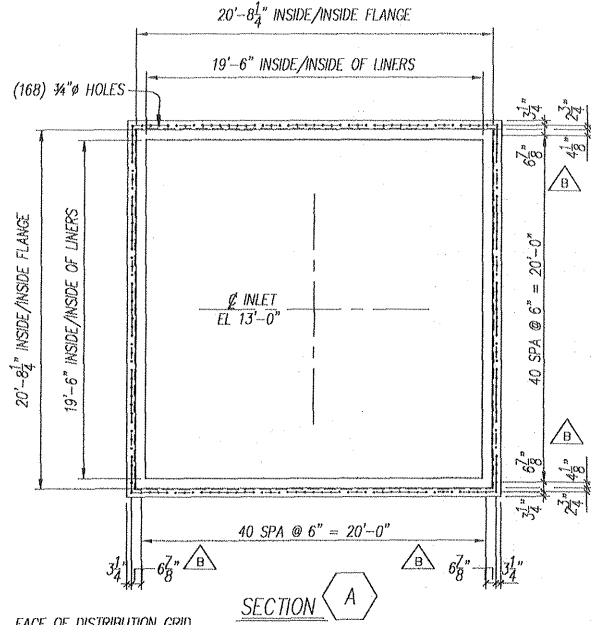
M010322-201A212 RA
 JEA BRANDY BRANCH

TOTAL OF (2) HRSG'S REQUIRED

A	11/7/02	INITIAL RELEASE	JA	KA
		REVISION		BY CHK
NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW				
REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITY FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, HOOTER/ERIKSEN SPECIFICATIONS AND P.G. REQUIREMENTS				
<input checked="" type="checkbox"/> A REVIEWED AND ACCEPTED <input type="checkbox"/> B REVIEWED WITH COMMENTS (WORK MAY PROCEED) <input type="checkbox"/> C REVISE AND RESUBMIT (WORK MAY NOT PROCEED) <input type="checkbox"/> D REVIEWED FOR INFORMATION ONLY				
RELEASE DATE: 11-2-02 REVIEWERS INITIALS: <i>JK</i>				
THIS DRAWING HAS BEEN FURNISHED BY NOOTER/ERIKSEN INC. THE INFORMATION CONTAINED HEREIN IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF NOOTER/ERIKSEN INC. AND MUST NOT BE COPIED OR REPRODUCED WITHOUT PERMISSION. THE PROVISIONS OF THIS AGREEMENT APPLY TO ALL REVISIONS WHICH ARE THE PROPERTY OF NOOTER/ERIKSEN INC.				
NE NOOTER/ERIKSEN DWN: JA CHK: KA PM: MKW P.E.: GBW SE: KHM TE: JCS				
OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)				
PURCHASER: BEAK / UTILITY ENGINEERING				
PROJECT: BRANDY BRANCH				
PLANT SITE: BLDG 10N, FL				
PROJECT: JEA BRANDY				
JOB NO: CODE: SHT: REV: FE:				
DRAWING NUMBER: 014130-CL-C-01 A				



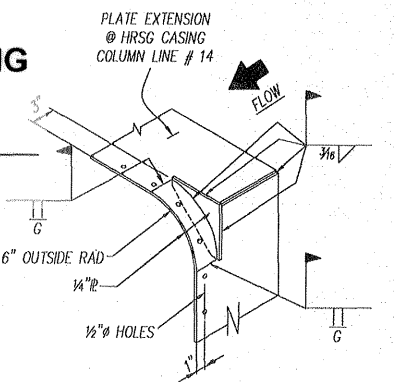
- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization



- * CASING, STIFFENERS & GUSSETS PER N/E STD 'CA-45V' & 'CA-48V' AND N/E DESIGN CALC'S
- NOTES:
- ALL FRAME CONNECTIONS PER N/E STRUCTURAL CALCULATIONS.
 - ALL EXTERIOR WELDS TO BE SEAL WELDS. SKIP WELDING OF STIFFENERS IS NOT ALLOWED.
 - FOR STRUCTURAL BEAMS AND COLUMN SIZES SEE STRUCTURAL CALCULATIONS.
 - FOR LINER LAYOUTS ARRANGEMENT SEE 014130-CL-N-07
 - FIELD JOINT DETAILS ARE SHOWN ON 014130-CL-N-08
 - EXTERNAL SURFACE TO BE SHOP COMMERCIAL BLASTED PER SSPC SP6 AND SHOP PAINTED WITH CARBOLINE CARBO ZINC 11 PRIMER (GREEN) 3 TO 5 MILS DFT. HOLD PRIMER BACK 4\" FROM FIELD WELDS AND COAT WITH CARBOLINE CARBOWELD 11 (1 MIL DFT)
 - CASING PLATE JOINTS SHALL BE WELDED TOGETHER WITH FULL PENETRATION WELDS UNLESS LOCATED BEHIND CASING STIFFENERS.

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING



TOTAL OF (2) HRSG'S REQUIRED

REV	DATE	REVISION	BY	CHK
B	12/4/02	REVISED BOLT SPACING	JA	KA
A	11/7/02	INITIAL RELEASE	JA	KA
NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW				
REVIEW OF VENDOR SUBMITTALS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES. NOTICE ERIKSEN SPECIFICATIONS AND C.O.D. REQUIREMENTS IN N/E APPLIES TO DESIGN AND FEATURES WHICH ARE OUR CUSTOMER'S PROPERTY.				
A REVIEWED AND ACCEPTED				
B REVIEWED WITH COMMENTS (WORK MAY PROCEED)				
C REVISE AND RESUBMIT (WORK MAY NOT PROCEED)				
D REVIEWED FOR INFORMATION ONLY				
RELEASE DATE: 7-8-03 REVIEWERS INITIALS: JTK/RF				

<p>NE NOOTER/ERIKSEN</p> <p>DWN: JA, CHK: KA, PM: MKW, PE: GBW, SE: KWM, TE: BCS</p> <p>OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA) PURCHASER: BRANDY / UTILITY ENGINEERING PROJECT: BRANDY BRANCH PLANT SITE: BALDWIN, FL</p>					
PROJECT:	JEA BRANDY	JOB NO. CODE:	SHT	REV	FE
DRAWING NUMBER:	014130-CL-C-02		B		

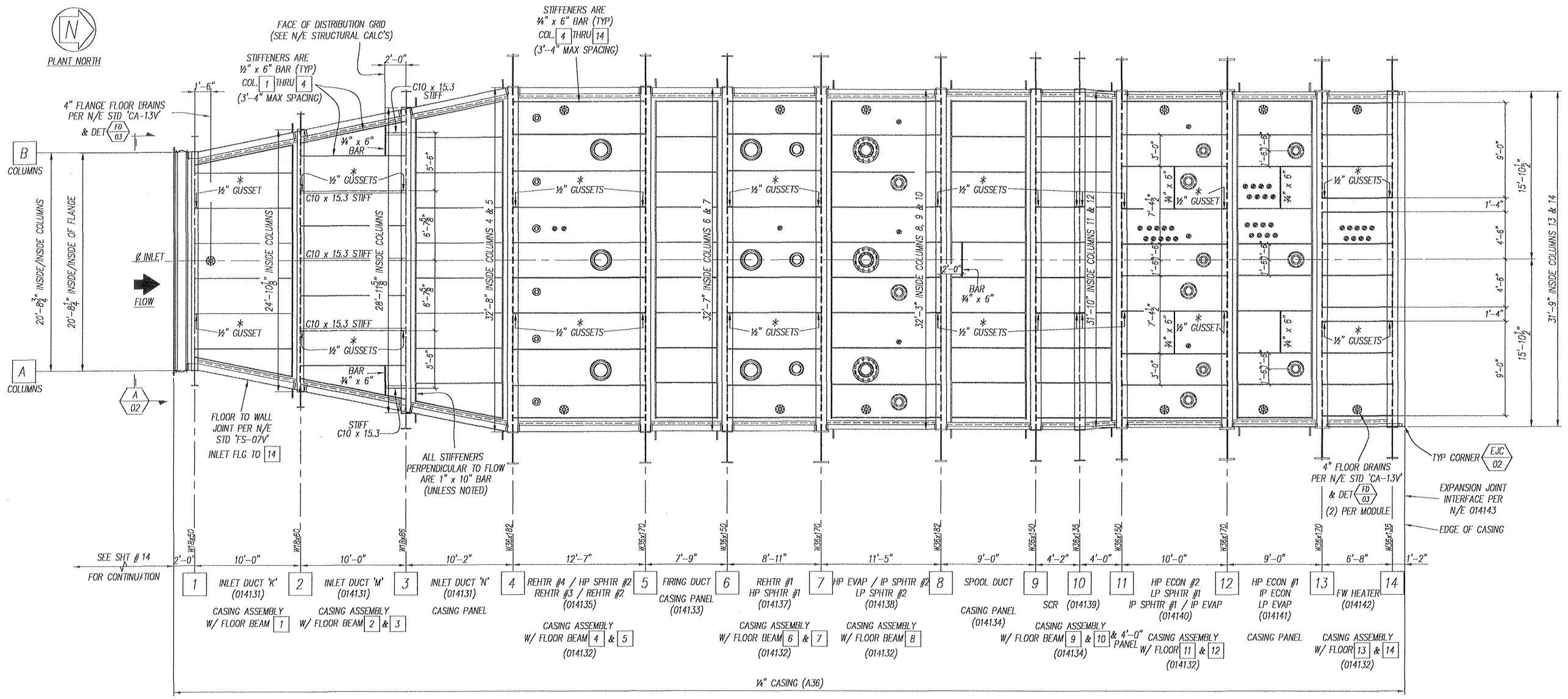
COLUMN 'A' WALL ELEVATION

M010322-201A213 RB
JEA BRANDY BRANCH
1/23/2003

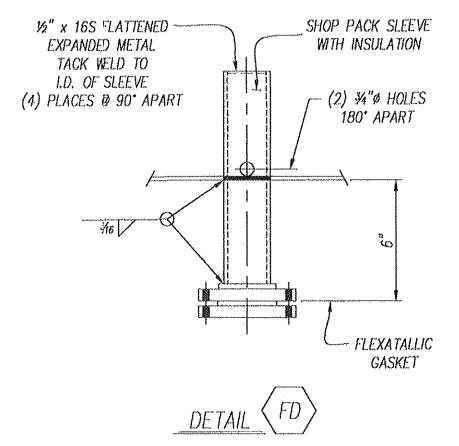
SEE SHT # 13 FOR CONTINUATION

* CASING, STIFFENERS & GUSSETS PER N/E STD 'CA-45V' & 'CA-48V' AND N/E DESIGN CALC'S

- NOTES:
- 1.) ALL FRAME CONNECTIONS PER N/E STRUCTURAL CALCULATIONS.
 - 2.) ALL EXTERIOR WELDS TO BE SEAL WELDS. SKIP WELDING OF STIFFENERS IS NOT ALLOWED.
 - 3.) FOR STRUCTURAL BEAMS AND COLUMN SIZES SEE STRUCTURAL CALCULATIONS.
 - 4.) FOR LINER LAYOUTS ARRANGEMENT SEE 014130-CL-N-09
 - 5.) FIELD JOINT DETAILS ARE SHOWN ON 014130-CL-N-10
 - 6.) EXTERNAL SURFACE TO BE SHOP COMMERCIAL BLASTED PER SSPC SP6 AND SHOP PAINTED WITH CARBOLINE CARBO ZINC 11 PRIMER (GREEN) 3 TO 5 MILS DFT. HOLD PRIMER BACK 4" FROM FIELD WELDS AND COAT WITH CARBOLINE CARBOWELD 11 (1 MIL DFT)
 - 7.) CASING PLATE JOINTS SHALL BE WELDED TOGETHER WITH FULL PENETRATION WELDS UNLESS LOCATED BEHIND CASING STIFFENERS.



FLOOR BOTTOM VIEW



M010322-201A214 RA
 JEA BRANDY BRANCH
 11/13/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

M R M

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

TOTAL OF (2) HRSG'S REQUIRED

REV	DATE	REVISION	BY	CHK
A	11/7/20	INITIAL RELEASE	JA	KA
B		REVISION	JA	KA
C		REVISION	JA	KA
D		REVISION	JA	KA

NOOTER/ERIKSEN INC. VENDOR SUBMITTAL REVIEW

REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, NOOTER/ERIKSEN SPECIFICATIONS AND P.O. REQUIREMENTS

A REVIEWED AND ACCEPTED

B REVIEWED WITH COMMENTS (WORK MAY PROCEED)

C REVISE AND RESUBMIT (WORK MAY NOT PROCEED)

D REVIEWED FOR INFORMATION ONLY

RELEASE DATE: 11-8-02 REVIEWERS INITIALS: K R

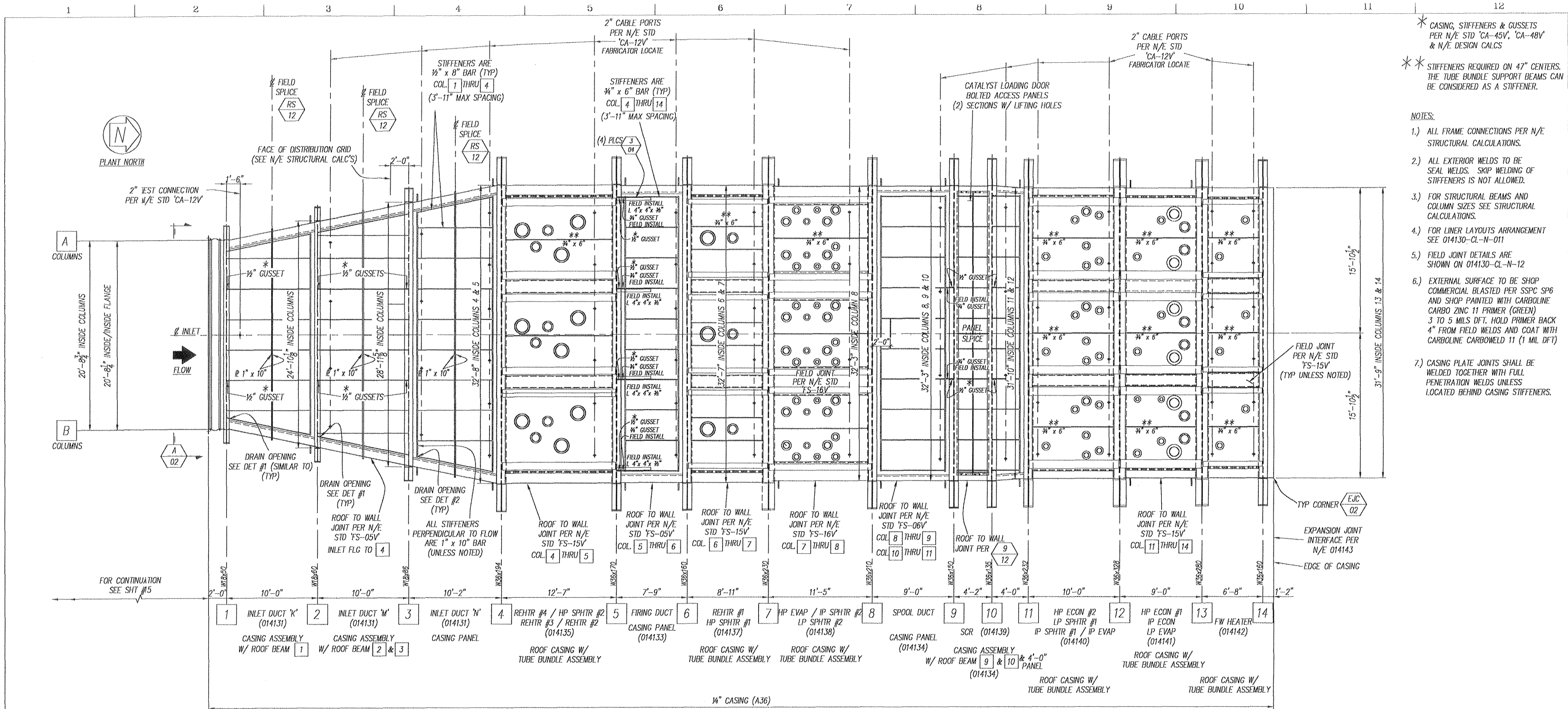
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NE NOOTER/ERIKSEN

DWN: JA
 CHK: KA
 P.M.: MHR
 P.E.: GBW
 S.E.: KWM
 T.E.: DCS

OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)
 PURCHASER: BEAK / UTILITY ENGINEERING
 PROJECT: BRANDY BRANCH
 PLANT SITE: GALUMIA, FL

PROJECT:	JEA BRANDY	JOB NO	CODE	SHT	REV	FE
DRAWING NUMBER	014130-CL-C-03				A	



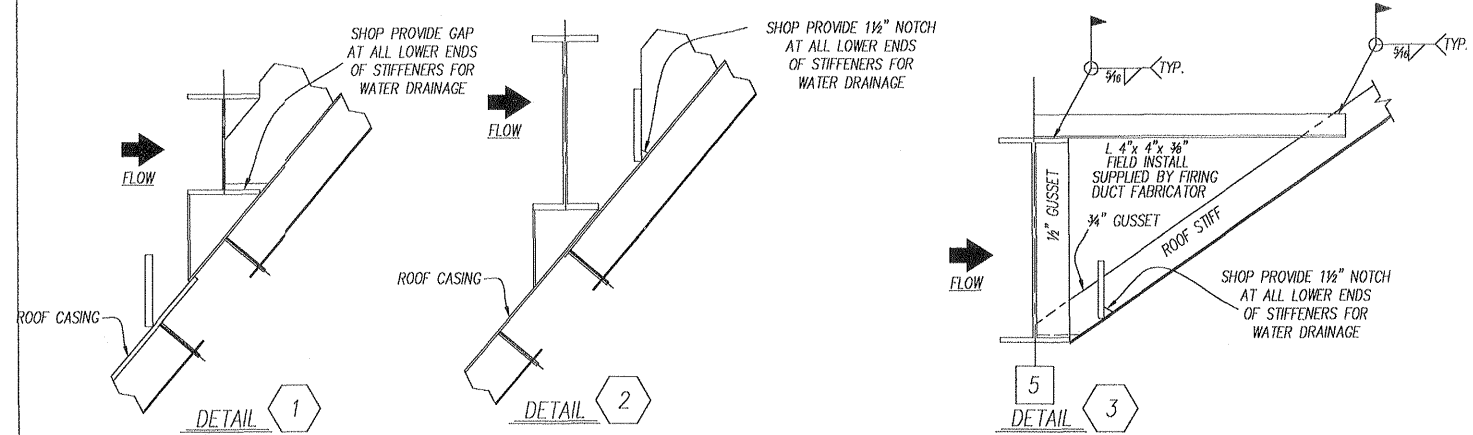
* CASING, STIFFENERS & GUSSETS PER N/E STD 'CA-45V, 'CA-48V' & N/E DESIGN CALCS
 ** STIFFENERS REQUIRED ON 47" CENTERS. THE TUBE BUNDLE SUPPORT BEAMS CAN BE CONSIDERED AS A STIFFENER.

- NOTES:
- 1.) ALL FRAME CONNECTIONS PER N/E STRUCTURAL CALCULATIONS.
 - 2.) ALL EXTERIOR WELDS TO BE SEAL WELDS. SKIP WELDING OF STIFFENERS IS NOT ALLOWED.
 - 3.) FOR STRUCTURAL BEAMS AND COLUMN SIZES SEE STRUCTURAL CALCULATIONS.
 - 4.) FOR LINER LAYOUTS ARRANGEMENT SEE 014130-CL-N-011
 - 5.) FIELD JOINT DETAILS ARE SHOWN ON 014130-CL-N-12
 - 6.) EXTERNAL SURFACE TO BE SHOP COMMERCIAL BLASTED PER SSPC SP6 AND SHOP PAINTED WITH CARBOLINE CARBO ZINC 11 PRIMER (GREEN) 3 TO 5 MILS DFT. HOLD PRIMER BACK 4" FROM FIELD WELDS AND COAT WITH CARBOLINE CARBOWELD 11 (1 MIL DFT)
 - 7.) CASING PLATE JOINTS SHALL BE WELDED TOGETHER WITH FULL PENETRATION WELDS UNLESS LOCATED BEHIND CASING STIFFENERS.

ROOF PLAN VIEW

NOTE: ROOF BEAMS @ COL 4 THRU 8 & 11 THRU 14 SHIP LOOSE.
 (SUPPLIED BY MODULE CASING FABRICATOR)
 NOTE: ROOF BEAM @ COL 9 SHIPS LOOSE.
 (SUPPLIED BY SCR CASING FABRICATOR)

TOTAL OF (2) HRSG'S REQUIRED

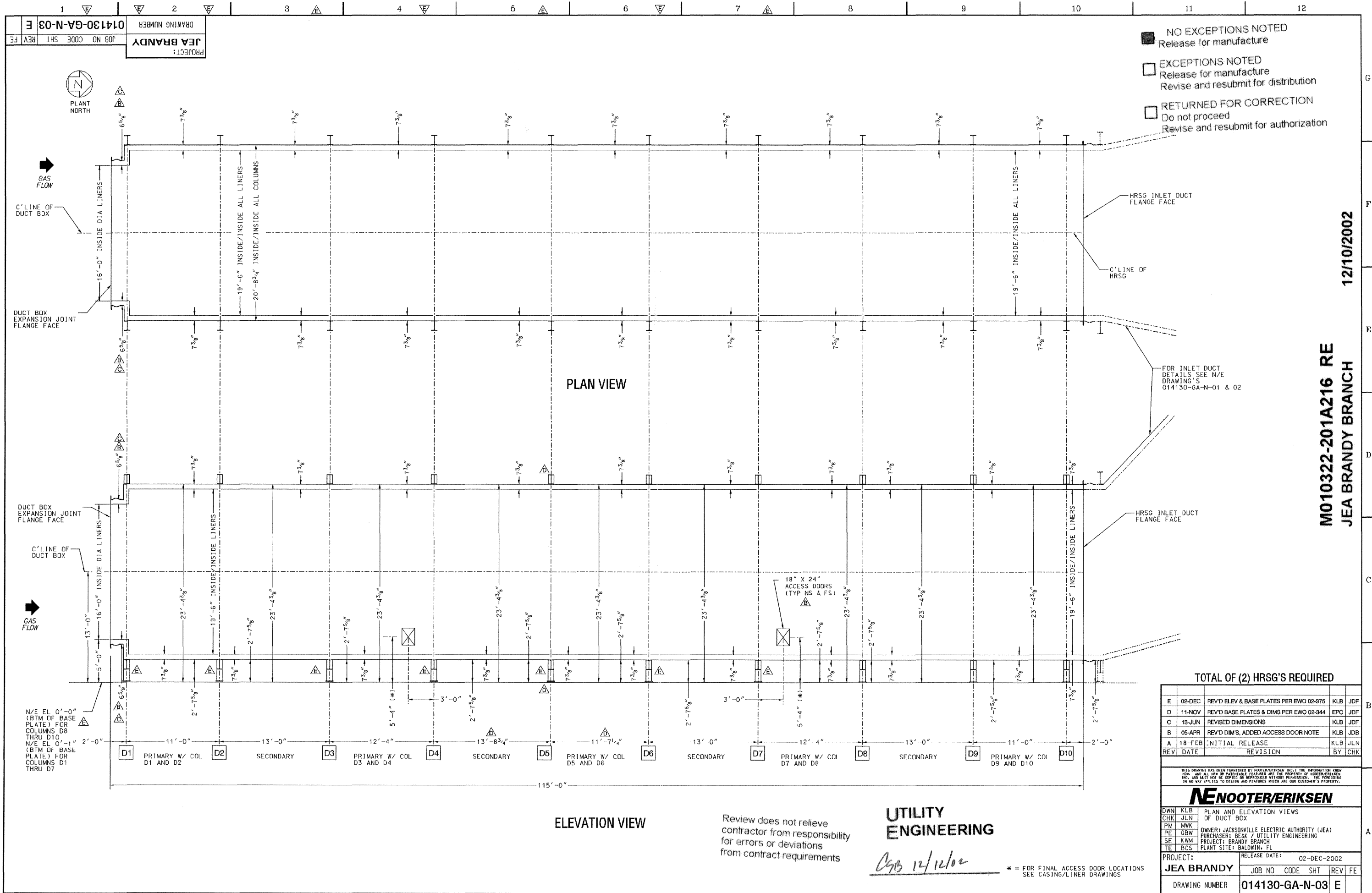


M010322-201A215 RA
JEA BRANDY BRANCH **11/13/2002**

Review does not relieve contractor from responsibility for errors or deviations from contract requirements
UTILITY ENGINEERING

- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

DATE	BY	REVISION	INITIALS
11/7/02	JA	INITIAL RELEASE	KA
		REVISION	BY CHK
Nooter/Eriksen Inc. Vendor Submittal Review			
REVIEW OF VENDOR DRAWINGS DOES NOT RELIEVE THE VENDOR OF RESPONSIBILITIES FOR ACCURACY OF DIMENSIONS AND COMPLIANCE TO CODES, Nooter/Eriksen Specifications and P.O. REQUIREMENTS			
<input checked="" type="checkbox"/> A) REVIEWED AND ACCEPTED			
<input type="checkbox"/> B) REVIEWED WITH COMMENTS (WORK MAY PROCEED)			
<input type="checkbox"/> C) REVISE AND RESUBMIT (WORK MAY NOT PROCEED)			
<input type="checkbox"/> D) REVIEWED FOR INFORMATION ONLY			
RELEASE DATE: 11-8-02		REVIEWERS INITIALS: JK VR	
THIS DRAWING HAS BEEN FORWARDED BY NOOTER/ERIKSEN INC. THE INFORMATION HEREIN IS THE PROPERTY OF NOOTER/ERIKSEN INC. AND ALL RIGHTS OF PATENTABILITY RESERVED AND THE PROPERTY OF NOOTER/ERIKSEN INC. AND WILL BE THE OWNERS OF REPRODUCED WITHOUT PERMISSION. THIS DOCUMENT IN NO WAY APPLIES TO DESIGN AND FEATURES WHICH ARE OUR CUSTOMER'S PROPERTY.			
NE NOOTER/ERIKSEN			
DRAWN: JA	CHK: KA	PROJECT: JEA BRANDY	
PEM: MJK	OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)	JOB NO: 014130-CL-C-04	
LPE: GBW	PURCHASER: BRANK / UTILITY ENGINEERING	CODE: A	SHT: 14
SE: KJWM	PROJECT: BRANDY BRANCH	REV: A	FE: X
TE: JDCS	PLANT SITE: GALUMIN, FL	DRAWING NUMBER: 014130-CL-C-04	



- NO EXCEPTIONS NOTED
Release for manufacture
- EXCEPTIONS NOTED
Release for manufacture
Revise and resubmit for distribution
- RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

M010322-201A216 RE
 JEA BRANDY BRANCH
 12/10/2002

TOTAL OF (2) HRSG'S REQUIRED

REV	DATE	REVISION	BY	CHK
E	02-DEC	REV'D ELEV & BASE PLATES PER EWO 02-376	KLB	JDF
D	11-NOV	REV'D BASE PLATES & DIMS PER EWO 02-344	EPC	JDF
C	13-JUN	REVISED DIMENSIONS	KLB	JDF
B	06-APR	REV'D DIMS, ADDED ACCESS DOOR NOTE	KLB	JDB
A	18-FEB	INITIAL RELEASE	KLB	JLN

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NOTOTER/ERIKSEN				
DWN	KLB	PLAN AND ELEVATION VIEWS		
CHK	JLN	OF DUCT BOX		
PM	MWK	OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA)		
PE	GBW	PURCHASER: BE&K / UTILITY ENGINEERING		
SE	KWM	PROJECT: BRANDY BRANCH		
TE	BCS	PLANT SITE: BALDWIN, FL		
PROJECT:		RELEASE DATE:	02-DEC-2002	
JEA BRANDY		JOB NO CODE SHT REV FE		
DRAWING NUMBER		014130-GA-N-03	E	

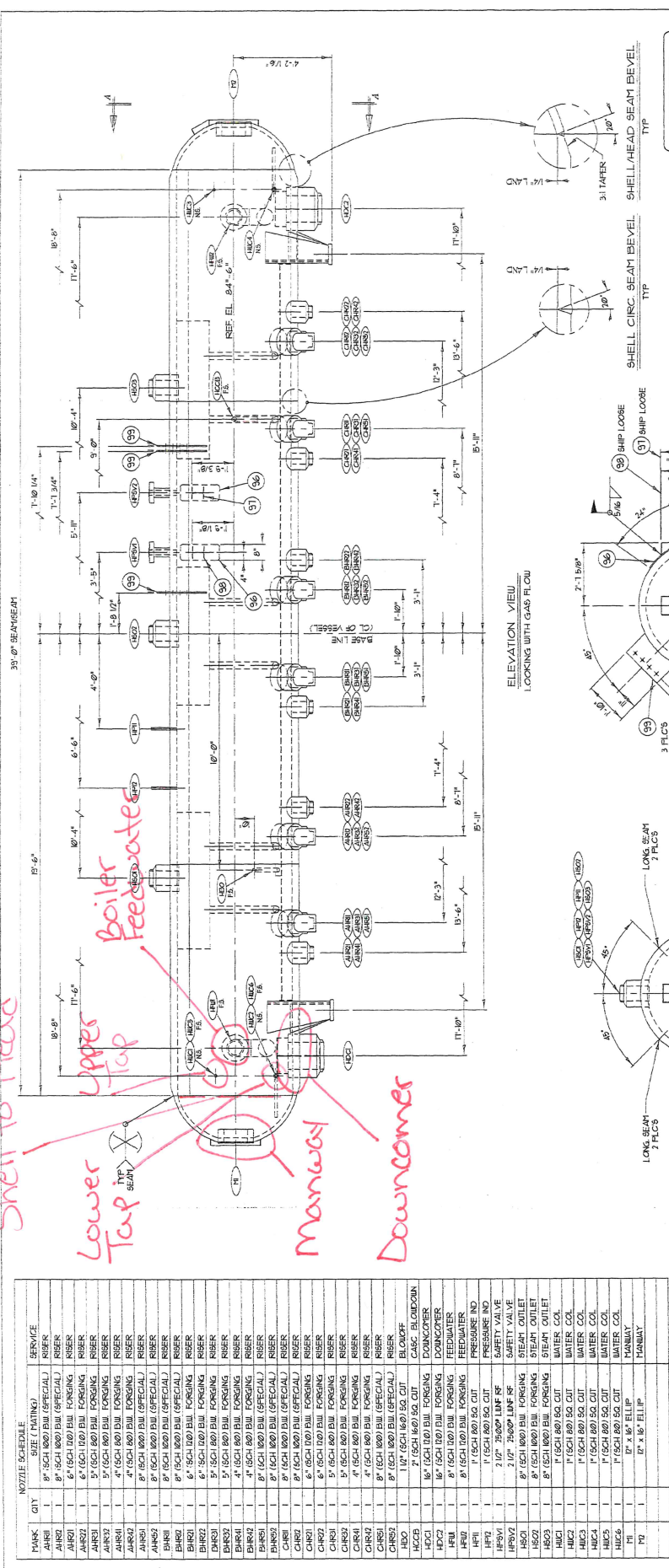
ELEVATION VIEW

UTILITY ENGINEERING

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

C9B 12/12/02

* = FOR FINAL ACCESS DOOR LOCATIONS SEE CASING/LINER DRAWINGS



NOZZLE SCHEDULE

PARK	QTY	SIZE (THINW)	SERVICE
AH01	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH02	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH03	1	6" SCH 1607 BUI	RISE
AH04	1	6" SCH 1607 BUI	RISE
AH05	1	5" SCH 1607 BUI	RISE
AH06	1	4" SCH 1607 BUI	RISE
AH07	1	4" SCH 1607 BUI	RISE
AH08	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH09	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH10	1	6" SCH 1607 BUI	RISE
AH11	1	6" SCH 1607 BUI	RISE
AH12	1	5" SCH 1607 BUI	RISE
AH13	1	4" SCH 1607 BUI	RISE
AH14	1	4" SCH 1607 BUI	RISE
AH15	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH16	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH17	1	6" SCH 1607 BUI	RISE
AH18	1	6" SCH 1607 BUI	RISE
AH19	1	5" SCH 1607 BUI	RISE
AH20	1	4" SCH 1607 BUI	RISE
AH21	1	4" SCH 1607 BUI	RISE
AH22	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH23	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH24	1	6" SCH 1607 BUI	RISE
AH25	1	6" SCH 1607 BUI	RISE
AH26	1	5" SCH 1607 BUI	RISE
AH27	1	4" SCH 1607 BUI	RISE
AH28	1	4" SCH 1607 BUI	RISE
AH29	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH30	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH31	1	6" SCH 1607 BUI	RISE
AH32	1	6" SCH 1607 BUI	RISE
AH33	1	5" SCH 1607 BUI	RISE
AH34	1	4" SCH 1607 BUI	RISE
AH35	1	4" SCH 1607 BUI	RISE
AH36	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH37	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH38	1	6" SCH 1607 BUI	RISE
AH39	1	6" SCH 1607 BUI	RISE
AH40	1	5" SCH 1607 BUI	RISE
AH41	1	4" SCH 1607 BUI	RISE
AH42	1	4" SCH 1607 BUI	RISE
AH43	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH44	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH45	1	6" SCH 1607 BUI	RISE
AH46	1	6" SCH 1607 BUI	RISE
AH47	1	5" SCH 1607 BUI	RISE
AH48	1	4" SCH 1607 BUI	RISE
AH49	1	4" SCH 1607 BUI	RISE
AH50	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH51	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH52	1	6" SCH 1607 BUI	RISE
AH53	1	6" SCH 1607 BUI	RISE
AH54	1	5" SCH 1607 BUI	RISE
AH55	1	4" SCH 1607 BUI	RISE
AH56	1	4" SCH 1607 BUI	RISE
AH57	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH58	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH59	1	6" SCH 1607 BUI	RISE
AH60	1	6" SCH 1607 BUI	RISE
AH61	1	5" SCH 1607 BUI	RISE
AH62	1	4" SCH 1607 BUI	RISE
AH63	1	4" SCH 1607 BUI	RISE
AH64	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH65	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH66	1	6" SCH 1607 BUI	RISE
AH67	1	6" SCH 1607 BUI	RISE
AH68	1	5" SCH 1607 BUI	RISE
AH69	1	4" SCH 1607 BUI	RISE
AH70	1	4" SCH 1607 BUI	RISE
AH71	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH72	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH73	1	6" SCH 1607 BUI	RISE
AH74	1	6" SCH 1607 BUI	RISE
AH75	1	5" SCH 1607 BUI	RISE
AH76	1	4" SCH 1607 BUI	RISE
AH77	1	4" SCH 1607 BUI	RISE
AH78	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH79	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH80	1	6" SCH 1607 BUI	RISE
AH81	1	6" SCH 1607 BUI	RISE
AH82	1	5" SCH 1607 BUI	RISE
AH83	1	4" SCH 1607 BUI	RISE
AH84	1	4" SCH 1607 BUI	RISE
AH85	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH86	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH87	1	6" SCH 1607 BUI	RISE
AH88	1	6" SCH 1607 BUI	RISE
AH89	1	5" SCH 1607 BUI	RISE
AH90	1	4" SCH 1607 BUI	RISE
AH91	1	4" SCH 1607 BUI	RISE
AH92	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH93	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH94	1	6" SCH 1607 BUI	RISE
AH95	1	6" SCH 1607 BUI	RISE
AH96	1	5" SCH 1607 BUI	RISE
AH97	1	4" SCH 1607 BUI	RISE
AH98	1	4" SCH 1607 BUI	RISE
AH99	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH100	1	8" SCH 1607 BUI (SPECIAL)	RISE

APPROVED
For Production
Order No. **102021-18**
Date _____

SEE SHIT B FOR DESIGN NOTES

3:1 TAPER
SHELL HEAD SEAM BEVEL
TYP

3:1 TAPER
SHELL CIRC. SEAM BEVEL
TYP

ELEVATION VIEW
LOOKING WITH GAS FLOW

GAS FLOW

VIEW A-A
(SHORT W/OUT SADDLES)

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release and resubmit for manufacture

RETURNED FOR CORRECTION
 Do not proceed
Revise and resubmit for authorization

UTILITY
ENGINEERING

MEI

NOZZLE SCHEDULE

PARK	QTY	SIZE (THINW)	SERVICE
AH01	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH02	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH03	1	6" SCH 1607 BUI	RISE
AH04	1	6" SCH 1607 BUI	RISE
AH05	1	5" SCH 1607 BUI	RISE
AH06	1	4" SCH 1607 BUI	RISE
AH07	1	4" SCH 1607 BUI	RISE
AH08	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH09	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH10	1	6" SCH 1607 BUI	RISE
AH11	1	6" SCH 1607 BUI	RISE
AH12	1	5" SCH 1607 BUI	RISE
AH13	1	4" SCH 1607 BUI	RISE
AH14	1	4" SCH 1607 BUI	RISE
AH15	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH16	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH17	1	6" SCH 1607 BUI	RISE
AH18	1	6" SCH 1607 BUI	RISE
AH19	1	5" SCH 1607 BUI	RISE
AH20	1	4" SCH 1607 BUI	RISE
AH21	1	4" SCH 1607 BUI	RISE
AH22	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH23	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH24	1	6" SCH 1607 BUI	RISE
AH25	1	6" SCH 1607 BUI	RISE
AH26	1	5" SCH 1607 BUI	RISE
AH27	1	4" SCH 1607 BUI	RISE
AH28	1	4" SCH 1607 BUI	RISE
AH29	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH30	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH31	1	6" SCH 1607 BUI	RISE
AH32	1	6" SCH 1607 BUI	RISE
AH33	1	5" SCH 1607 BUI	RISE
AH34	1	4" SCH 1607 BUI	RISE
AH35	1	4" SCH 1607 BUI	RISE
AH36	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH37	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH38	1	6" SCH 1607 BUI	RISE
AH39	1	6" SCH 1607 BUI	RISE
AH40	1	5" SCH 1607 BUI	RISE
AH41	1	4" SCH 1607 BUI	RISE
AH42	1	4" SCH 1607 BUI	RISE
AH43	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH44	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH45	1	6" SCH 1607 BUI	RISE
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AH47	1	5" SCH 1607 BUI	RISE
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AH49	1	4" SCH 1607 BUI	RISE
AH50	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH51	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH52	1	6" SCH 1607 BUI	RISE
AH53	1	6" SCH 1607 BUI	RISE
AH54	1	5" SCH 1607 BUI	RISE
AH55	1	4" SCH 1607 BUI	RISE
AH56	1	4" SCH 1607 BUI	RISE
AH57	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH58	1	8" SCH 1607 BUI (SPECIAL)	RISE
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AH60	1	6" SCH 1607 BUI	RISE
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AH62	1	4" SCH 1607 BUI	RISE
AH63	1	4" SCH 1607 BUI	RISE
AH64	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH65	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH66	1	6" SCH 1607 BUI	RISE
AH67	1	6" SCH 1607 BUI	RISE
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AH70	1	4" SCH 1607 BUI	RISE
AH71	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH72	1	8" SCH 1607 BUI (SPECIAL)	RISE
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AH92	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH93	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH94	1	6" SCH 1607 BUI	RISE
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AH96	1	5" SCH 1607 BUI	RISE
AH97	1	4" SCH 1607 BUI	RISE
AH98	1	4" SCH 1607 BUI	RISE
AH99	1	8" SCH 1607 BUI (SPECIAL)	RISE
AH100	1	8" SCH 1607 BUI (SPECIAL)	RISE

REVISION

NO.	DATE	REVISION
1	10/21/2002	PER CUSTOMER COMMENTS
2	10/21/2002	ADDED DOWN PIPE TO NOZZLE
3	10/21/2002	ADDED NET EL.
4	10/21/2002	ADDED STEAM DRAFT
5	10/21/2002	HP REMOVED STEAM DRAFT
6	10/21/2002	HP REMOVED STEAM DRAFT
7	10/21/2002	HP REMOVED STEAM DRAFT

10/21/2002

M010322-201A102 RD
JEA BRANDY BRANCH

SUPPORT CLIP LOCATIONS
TYP 3 FLC'S

LONG BEAM 3 FLC'S

LONG BEAM 3 FLC'S

3 BHP LOOSE

MINORITY/ETHNICITY _____

ISSUE DATE 10/21/02

PROJECT # 102021-18

DRAWING NO. 102021-18

DATE 10/21/02

ORDER NO. 102021-18

QUANTITY 1

UNIT PRICE \$ 0.00

TOTAL \$ 0.00

APPROVED FOR PRODUCTION

DATE _____

10/21/2002

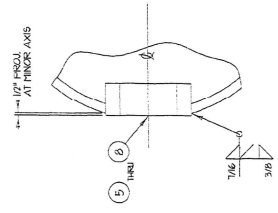
M010322-201A102 RD
JEA BRANDY BRANCH

SUPPORT CLIP LOCATIONS
TYP 3 FLC'S

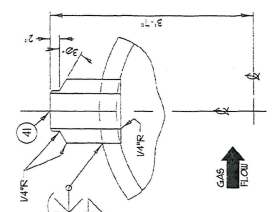
LONG BEAM 3 FLC'S

LONG BEAM 3 FLC'S

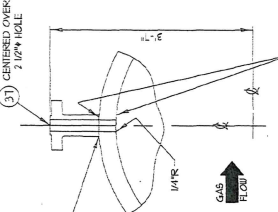
3 BHP LOOSE



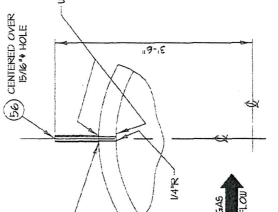
NOZZLE (H1, H2, H3)
3 F.L.C.'S



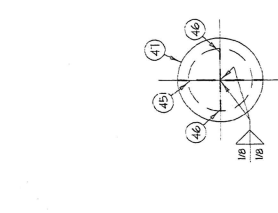
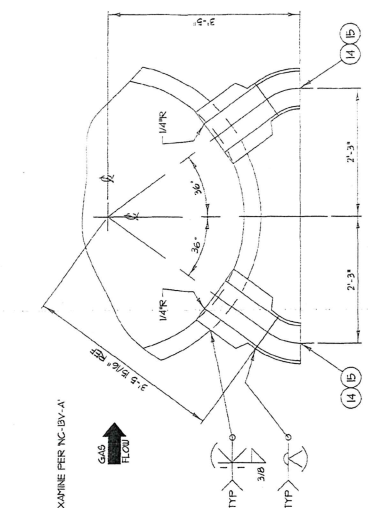
NOZZLE (H501, H502, H503)
3 F.L.C.'S



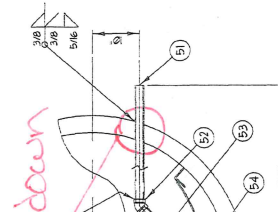
NOZZLE (HFS1, HFS2)
2 F.L.C.'S



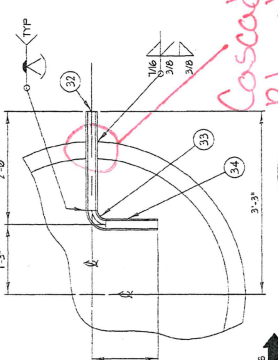
NOZZLE (HPI1, HPI2)
2 F.L.C.'S



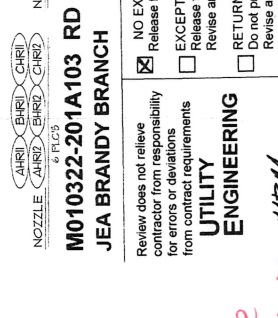
NOZZLE (H46, H47)
6 F.L.C.'S



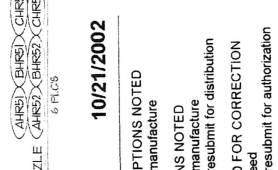
NOZZLE (H51, H52, H53)
1 F.L.C.



NOZZLE (H33, H34)
1 F.L.C.'S



NOZZLE (H23, H24)
6 F.L.C.'S



NOZZLE (H14, H15)
6 F.L.C.'S

M010322-201A103 RD
JEA BRANDY BRANCH
10/21/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

NO EXCEPTIONS NOTED

Release for manufacture

EXCEPTIONS NOTED

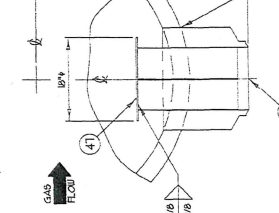
Release for manufacture

Revised and resubmit for distribution

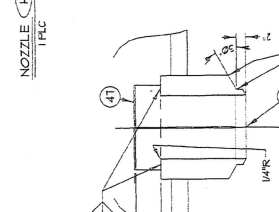
RETURNED FOR CORRECTION

Do not proceed

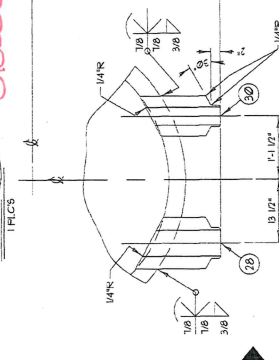
Revised and resubmit for authorization



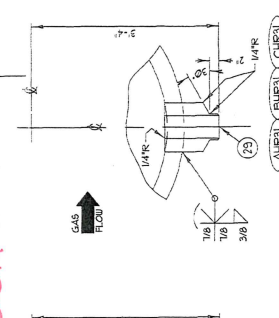
NOZZLE (H44, H45)
7 F.L.C.'S



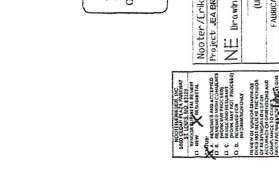
NOZZLE (H41, H42)
1 F.L.C.



NOZZLE (H28, H29)
6 F.L.C.'S



NOZZLE (H23, H24)
6 F.L.C.'S



NOZZLE (H14, H15)
6 F.L.C.'S

Blowdown

Cascade Blowdown

MEM

APPROVED For Production
Order No. 102001-10
Date: 10/21/02

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

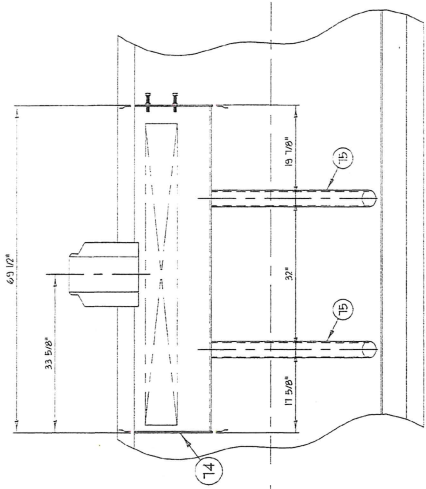
NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

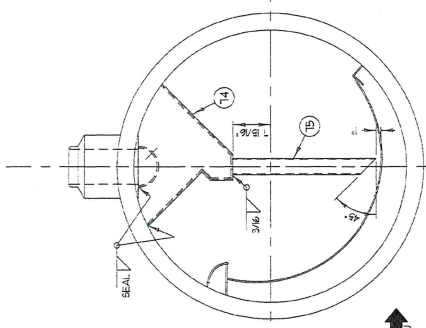
NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S

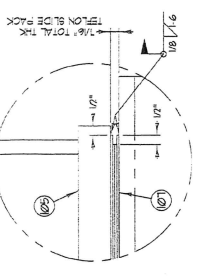
NOZZLE (H14, H15)	NOZZLE (H23, H24)	NOZZLE (H28, H29)	NOZZLE (H41, H42)	NOZZLE (H44, H45)	NOZZLE (H46, H47)	NOZZLE (H51, H52, H53)	NOZZLE (H33, H34)	NOZZLE (HPI1, HPI2)	NOZZLE (HFS1, HFS2)	NOZZLE (H501, H502, H503)
6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	6 F.L.C.'S	1 F.L.C.	3 F.L.C.'S	1 F.L.C.	2 F.L.C.'S	2 F.L.C.'S	3 F.L.C.'S



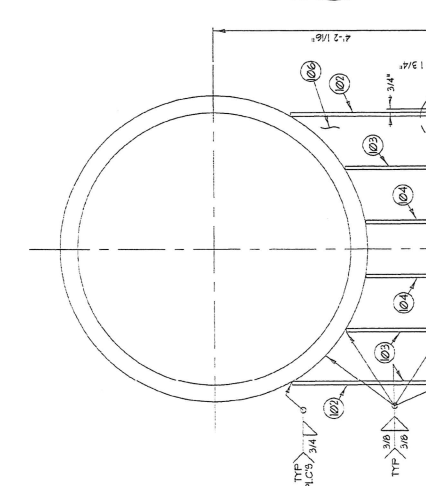
(LOOKING INTO GAS FLOW)



SLIDE PACK DETAIL



SADDLE DETAIL



Review does not relieve
 contractor from responsibility
 for errors or deviations
 from contract requirements

SEE RE Dwg# 01415-HD-010

STEAM SEPARATOR DETAIL
 TYP 3 FLC'S

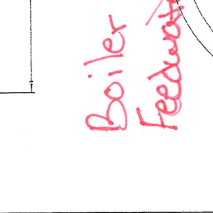
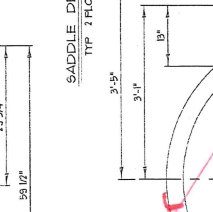
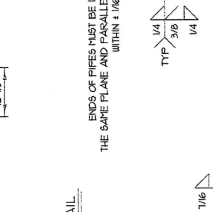
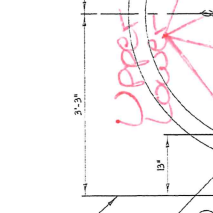
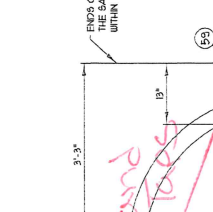
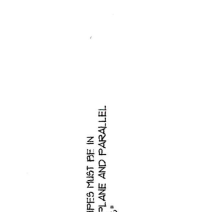
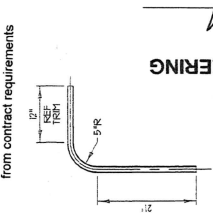
ENDS OF PIPES MUST BE IN
 THE SAME PLANE AND PARALLEL
 WITHIN 1 1/8"

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 THE SAME PLANE AND PARALLEL
 WITHIN 1 1/8"

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 THE SAME PLANE AND PARALLEL
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 WITHIN 1 1/8"

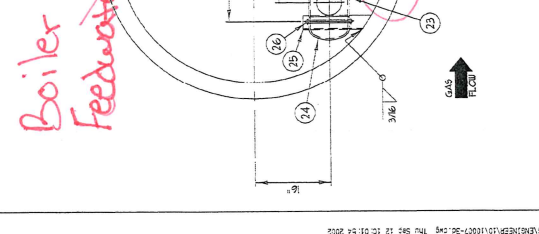
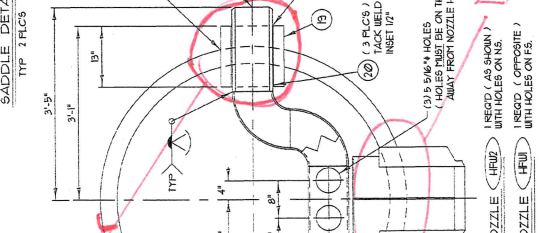
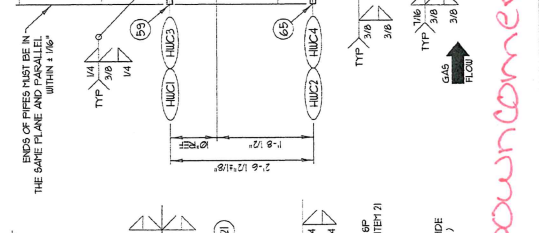
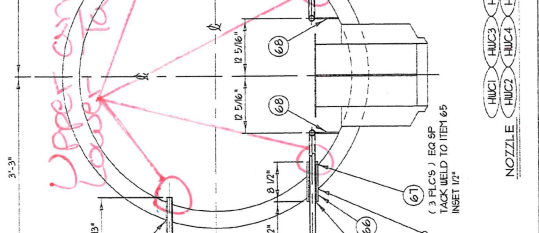
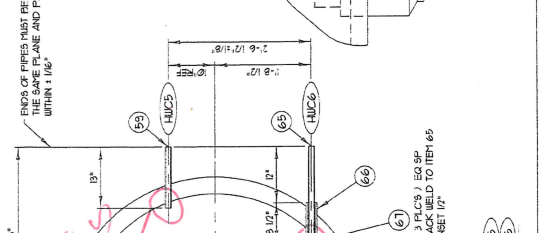
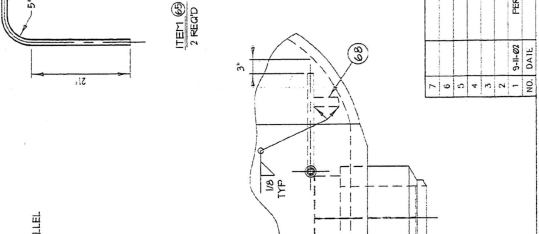


APPROVED
 For Production
 Order No. 00201-12
 By: _____

PROJECT	01415-HD-003	REV	B
DATE	09/24/02	BY	_____
SCALE	1/4" = 1'-0"	DATE	09/24/02
BY	_____	DATE	09/24/02
DATE	09/24/02	BY	_____

UTILITY ENGINEERING

11000 E. UNIVERSITY AVENUE, SUITE 100
 DENVER, COLORADO 80231
 (303) 752-0000
 FAX (303) 752-0001
 WWW.UTILITYENGINEERING.COM



Downcomer

Boiler Feedwater

NOZZLE (AS SHOWN) WITH HOLES ON NS. INSERT (OPPOSITE) WITH HOLES ON FS.

NOZZLE (AS SHOWN) WITH HOLES ON NS. INSERT (OPPOSITE) WITH HOLES ON FS.

NOZZLE (AS SHOWN) WITH HOLES ON NS. INSERT (OPPOSITE) WITH HOLES ON FS.

NOZZLE (AS SHOWN) WITH HOLES ON NS. INSERT (OPPOSITE) WITH HOLES ON FS.

NO.	DATE	REVISION
7		
6		
5		
4		
3		
2	09-24-02	PER GASFLOW COMMENTS
1	09-24-02	

DESIGNED BY	DRG/DRG
CHECKED BY	DRG/DRG
SCALE	1/4" = 1'-0"
DATE	09/24/02

PROJECT	01415-HD-003
REV	B
DATE	09/24/02
BY	_____

NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5

NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5

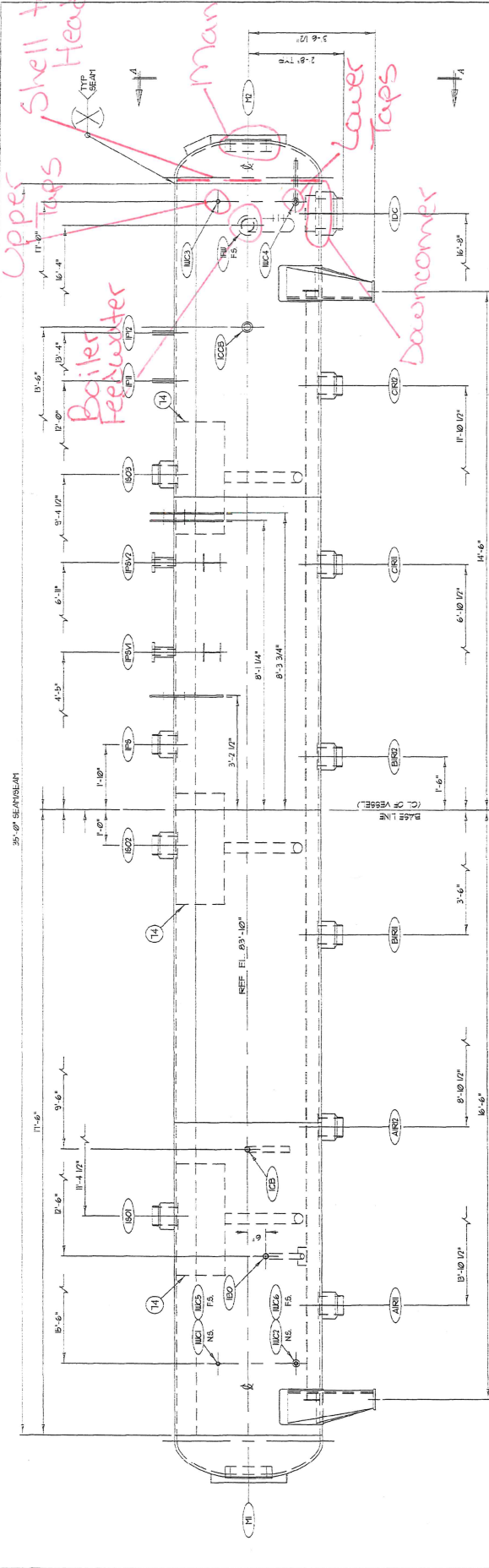
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5

NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5

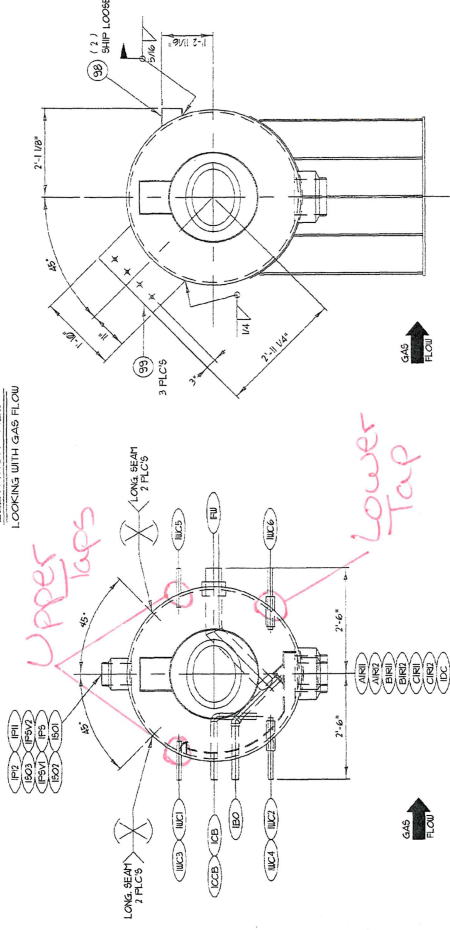
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5
NOZZLE	HUC1	HUC2	HUC3	HUC4	HUC5

M010322-201A108 RB
JEA BRANDY BRANCH

9/24/2002



ELEVATION VIEW
LOOKING WITH GAS FLOW



MARK	NOZZLE SCHEDULE	SERVICE
ANSI	6" (SCH 40) BILL FORGING	RISER
ANS2	6" (SCH 40) BILL FORGING	RISER
ANS3	6" (SCH 40) BILL FORGING	RISER
ANS4	6" (SCH 40) BILL FORGING	RISER
ANS5	6" (SCH 40) BILL FORGING	RISER
ANS6	6" (SCH 40) BILL FORGING	RISER
ANS7	6" (SCH 40) BILL FORGING	RISER
ANS8	6" (SCH 40) BILL FORGING	RISER
ANS9	6" (SCH 40) BILL FORGING	RISER
ANS10	6" (SCH 40) BILL FORGING	RISER
ANS11	6" (SCH 40) BILL FORGING	RISER
ANS12	6" (SCH 40) BILL FORGING	RISER
ANS13	6" (SCH 40) BILL FORGING	RISER
ANS14	6" (SCH 40) BILL FORGING	RISER
ANS15	6" (SCH 40) BILL FORGING	RISER
ANS16	6" (SCH 40) BILL FORGING	RISER
ANS17	6" (SCH 40) BILL FORGING	RISER
ANS18	6" (SCH 40) BILL FORGING	RISER
ANS19	6" (SCH 40) BILL FORGING	RISER
ANS20	6" (SCH 40) BILL FORGING	RISER
ANS21	6" (SCH 40) BILL FORGING	RISER
ANS22	6" (SCH 40) BILL FORGING	RISER
ANS23	6" (SCH 40) BILL FORGING	RISER
ANS24	6" (SCH 40) BILL FORGING	RISER
ANS25	6" (SCH 40) BILL FORGING	RISER
ANS26	6" (SCH 40) BILL FORGING	RISER
ANS27	6" (SCH 40) BILL FORGING	RISER
ANS28	6" (SCH 40) BILL FORGING	RISER
ANS29	6" (SCH 40) BILL FORGING	RISER
ANS30	6" (SCH 40) BILL FORGING	RISER
ANS31	6" (SCH 40) BILL FORGING	RISER
ANS32	6" (SCH 40) BILL FORGING	RISER
ANS33	6" (SCH 40) BILL FORGING	RISER
ANS34	6" (SCH 40) BILL FORGING	RISER
ANS35	6" (SCH 40) BILL FORGING	RISER
ANS36	6" (SCH 40) BILL FORGING	RISER
ANS37	6" (SCH 40) BILL FORGING	RISER
ANS38	6" (SCH 40) BILL FORGING	RISER
ANS39	6" (SCH 40) BILL FORGING	RISER
ANS40	6" (SCH 40) BILL FORGING	RISER
ANS41	6" (SCH 40) BILL FORGING	RISER
ANS42	6" (SCH 40) BILL FORGING	RISER
ANS43	6" (SCH 40) BILL FORGING	RISER
ANS44	6" (SCH 40) BILL FORGING	RISER
ANS45	6" (SCH 40) BILL FORGING	RISER
ANS46	6" (SCH 40) BILL FORGING	RISER
ANS47	6" (SCH 40) BILL FORGING	RISER
ANS48	6" (SCH 40) BILL FORGING	RISER
ANS49	6" (SCH 40) BILL FORGING	RISER
ANS50	6" (SCH 40) BILL FORGING	RISER
ANS51	6" (SCH 40) BILL FORGING	RISER
ANS52	6" (SCH 40) BILL FORGING	RISER
ANS53	6" (SCH 40) BILL FORGING	RISER
ANS54	6" (SCH 40) BILL FORGING	RISER
ANS55	6" (SCH 40) BILL FORGING	RISER
ANS56	6" (SCH 40) BILL FORGING	RISER
ANS57	6" (SCH 40) BILL FORGING	RISER
ANS58	6" (SCH 40) BILL FORGING	RISER
ANS59	6" (SCH 40) BILL FORGING	RISER
ANS60	6" (SCH 40) BILL FORGING	RISER
ANS61	6" (SCH 40) BILL FORGING	RISER
ANS62	6" (SCH 40) BILL FORGING	RISER
ANS63	6" (SCH 40) BILL FORGING	RISER
ANS64	6" (SCH 40) BILL FORGING	RISER
ANS65	6" (SCH 40) BILL FORGING	RISER
ANS66	6" (SCH 40) BILL FORGING	RISER
ANS67	6" (SCH 40) BILL FORGING	RISER
ANS68	6" (SCH 40) BILL FORGING	RISER
ANS69	6" (SCH 40) BILL FORGING	RISER
ANS70	6" (SCH 40) BILL FORGING	RISER
ANS71	6" (SCH 40) BILL FORGING	RISER
ANS72	6" (SCH 40) BILL FORGING	RISER
ANS73	6" (SCH 40) BILL FORGING	RISER
ANS74	6" (SCH 40) BILL FORGING	RISER
ANS75	6" (SCH 40) BILL FORGING	RISER
ANS76	6" (SCH 40) BILL FORGING	RISER
ANS77	6" (SCH 40) BILL FORGING	RISER
ANS78	6" (SCH 40) BILL FORGING	RISER
ANS79	6" (SCH 40) BILL FORGING	RISER
ANS80	6" (SCH 40) BILL FORGING	RISER
ANS81	6" (SCH 40) BILL FORGING	RISER
ANS82	6" (SCH 40) BILL FORGING	RISER
ANS83	6" (SCH 40) BILL FORGING	RISER
ANS84	6" (SCH 40) BILL FORGING	RISER
ANS85	6" (SCH 40) BILL FORGING	RISER
ANS86	6" (SCH 40) BILL FORGING	RISER
ANS87	6" (SCH 40) BILL FORGING	RISER
ANS88	6" (SCH 40) BILL FORGING	RISER
ANS89	6" (SCH 40) BILL FORGING	RISER
ANS90	6" (SCH 40) BILL FORGING	RISER
ANS91	6" (SCH 40) BILL FORGING	RISER
ANS92	6" (SCH 40) BILL FORGING	RISER
ANS93	6" (SCH 40) BILL FORGING	RISER
ANS94	6" (SCH 40) BILL FORGING	RISER
ANS95	6" (SCH 40) BILL FORGING	RISER
ANS96	6" (SCH 40) BILL FORGING	RISER
ANS97	6" (SCH 40) BILL FORGING	RISER
ANS98	6" (SCH 40) BILL FORGING	RISER
ANS99	6" (SCH 40) BILL FORGING	RISER
ANS100	6" (SCH 40) BILL FORGING	RISER

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

WJW

APPROVED
For Production
Order No. 04146-10-100

NOZZLE/FITTING	Release Date 9/24/02
PROJECT ADDRESS	Job No. 04146-10-100
DATE	9/24/02
BY	J. B. 022
DATE	9/24/02
BY	J. B. 022

7	6	5	4	3	2	1
NO	DATE	REV	DESCRIPTION	BY	DATE	REV

NO EXCEPTIONS NOTED
 NO EXCEPTIONS NOTED
 EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution
 RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

SEE SHEET 5 FOR DESIGN NOTES

ARROW TANK & ENGINEERING CO.
MINNEAPOLIS, CAMBRIDGE, MINNESOTA
48" ID x 35'-0" SEAM-TO-SEAM
MANWAY
DESIGNED BY: J. B. 022
CHECKED BY: J. B. 022
DATE: 9/24/02

MANUFACTURER: (PLEASE SPECIFY)
 FABRICATION: (PLEASE SPECIFY)
 MACHINING: (PLEASE SPECIFY)
 FINISH: (PLEASE SPECIFY)
 TOLERANCES: (PLEASE SPECIFY)

NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

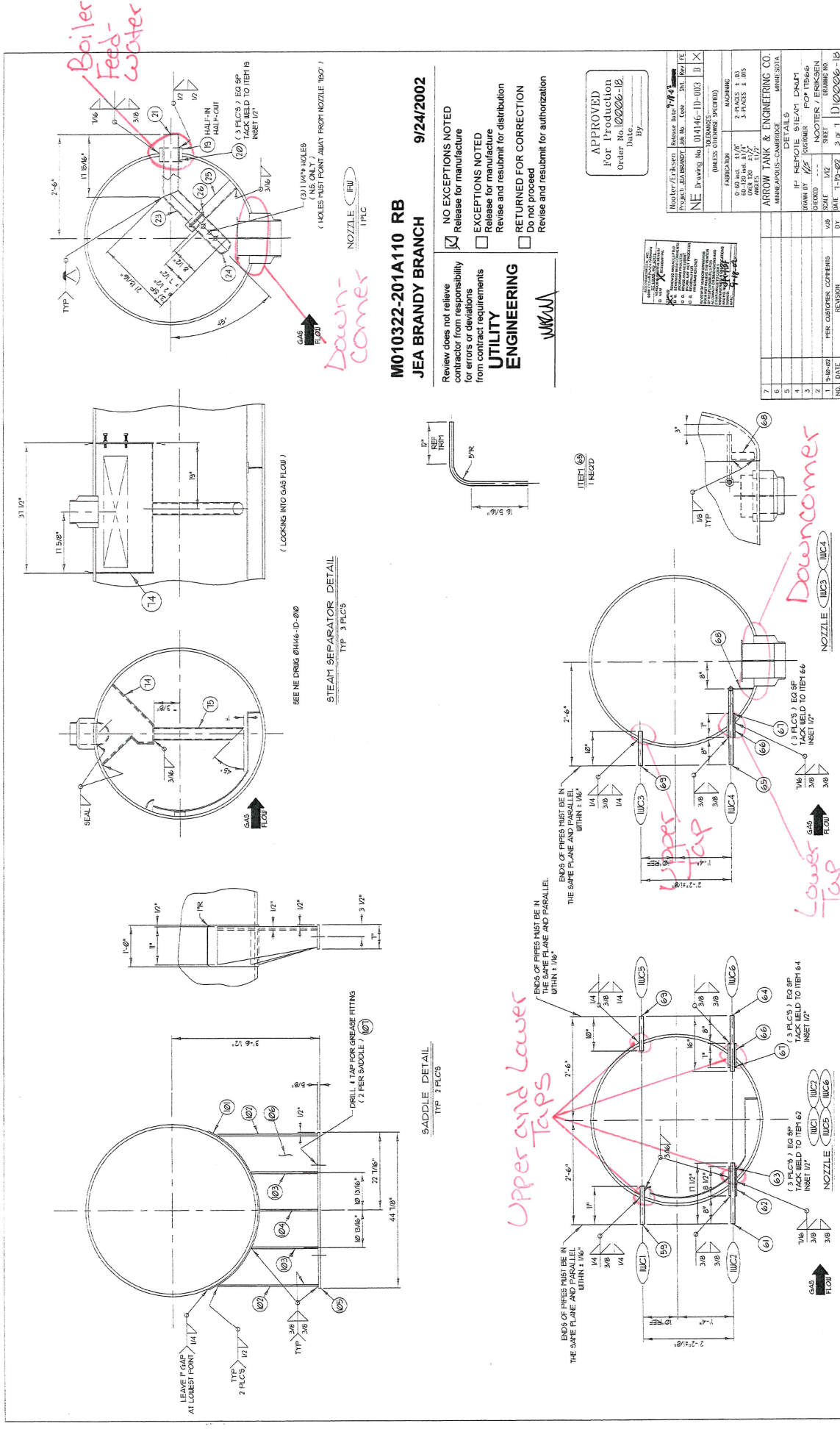
NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

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 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)

NOZZLE/FITTING: (PLEASE SPECIFY)
 PROJECT ADDRESS: (PLEASE SPECIFY)
 DATE: (PLEASE SPECIFY)
 BY: (PLEASE SPECIFY)



M010322-201A110 RB
JEA BRANDY BRANCH

9/24/2002

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Return and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

APPROVED
 For Production
 Order No. 10206-18
 Date: _____
 By: _____

ARROW TANK & ENGINEERING CO.
 1000 W. 11th St.
 Minneapolis, MN 55404
 (612) 338-1177

NO.	DATE	REVISION
1	10-20-02	PER ORDER/ CORRIGENS
2	11-15-02	3 P. 1
3	11-15-02	3 P. 1
4	11-15-02	3 P. 1
5	11-15-02	3 P. 1
6	11-15-02	3 P. 1
7	11-15-02	3 P. 1