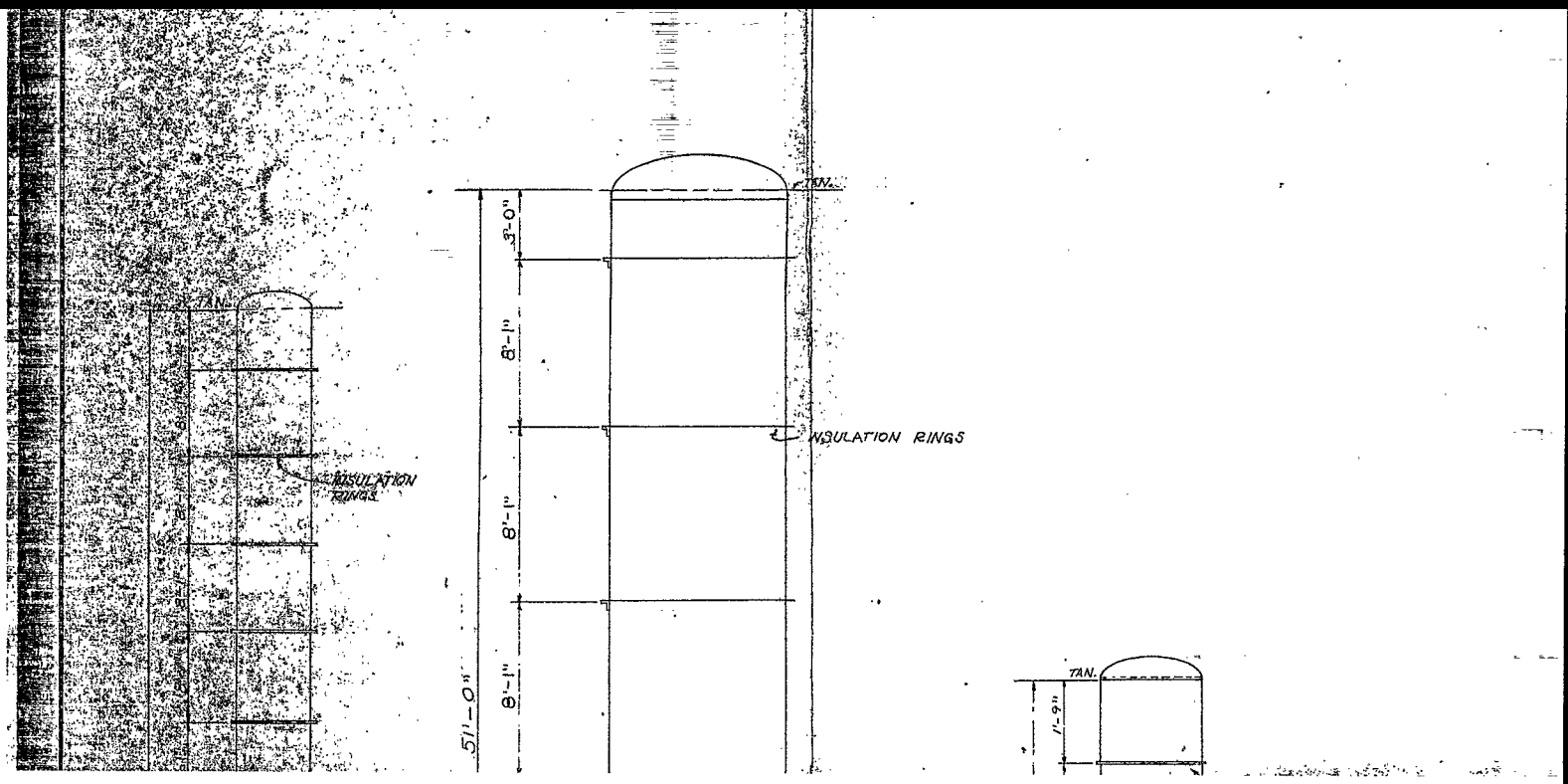

TAN.
INSULATION RINGS
TAN.
3'-0"
8'-1"
8'-1"
8'-1"
51'-0"
INSULATION RINGS
TAN.
1'-9"

TOWERS:

BENZENE COL.	DA-417
#3 REACTOR	DA-415
EFFLUENT RECTIFIER	DA-416
EFFLUENT FILTER	FD-405

EXCHANGERS:

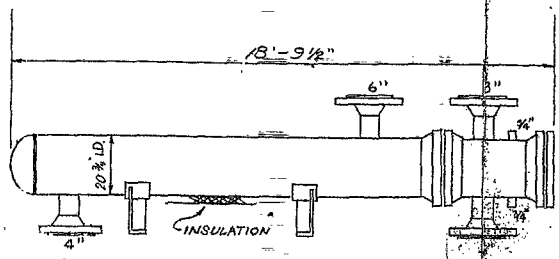
FEED-EFFLUENT EXCHANGER	EA-420 A&B
COMBINED FEED PREHEATER	EA-421

PUMPS:

De C_3 BTMS.	GA-407S	PACIFIC 2½-JTC
BENZENE COL. BTMS.	GA-426	2½×10½ SURP
BENZENE COL. SPARE	GA-426S	2½×10½ SURP
#1 CUMENE COL. BTMS.	GA-429	1×6½ SURP
#1 CUMENE COL. SPARE	GA-429S	1×6½ SURP

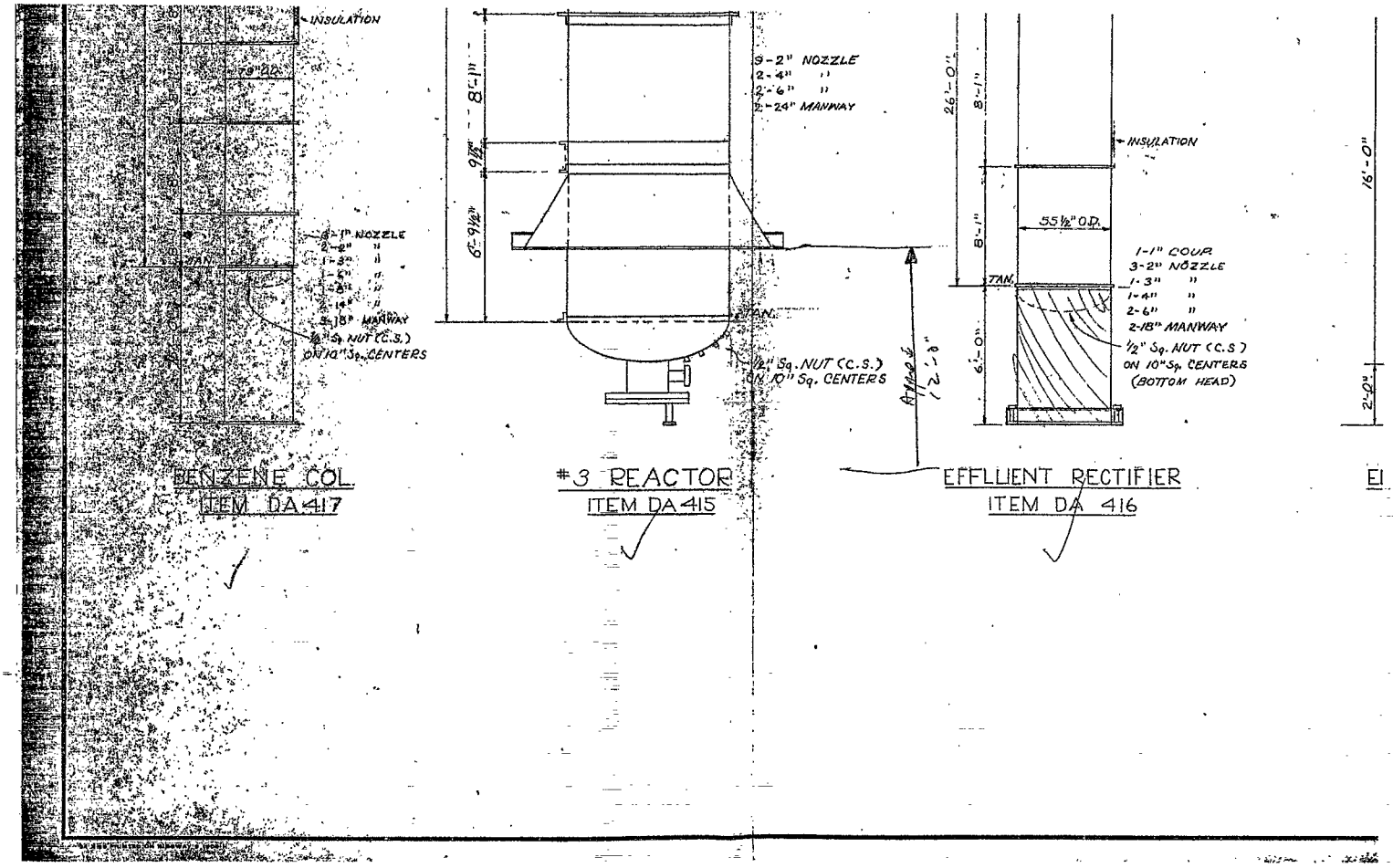
TURBINES:

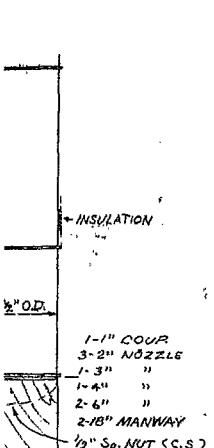
DRIVER	GA-407S	ELLIOTT 2BHRH
DRIVER	GA-427	ELLIOTT 2BHRH
DRIVER	GA-427S	ELLIOTT 2BHRH
DRIVER	GA-426S	COPPUS TF-16L



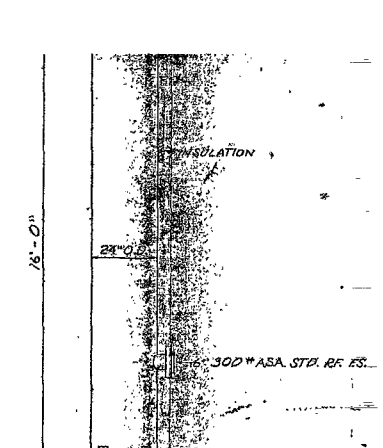
← 8" 300# ASA STD. RF

COMBINED FEED PREHEATER
ITEM EA-421

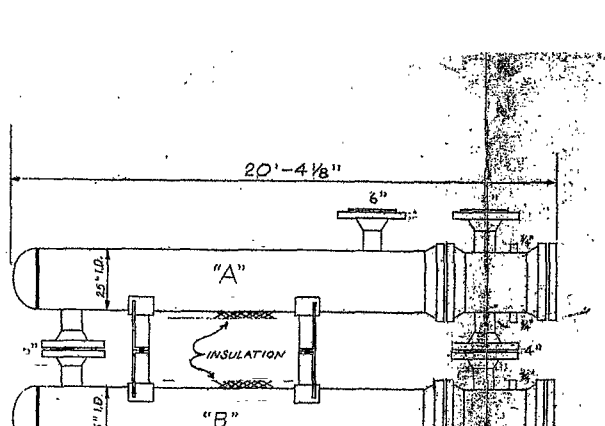

INSULATION
79" O.D.
8-1" NOZZLE
2-2" "
1-3" "
1-6" "
1-8" "
2-14" "
3-18" MANWAY
1/2" Sq. NUT (C.S.)
ON 10" Sq. CENTERS
TAN.
BENZENE COL.
ITEM DA 417
8'-1"
9 7/8"
6'-9 1/2"
9-2" NOZZLE
2-4" "
2-6" "
2-24" MANWAY
TAN.
1/2" Sq. NUT (C.S.)
ON 10" Sq. CENTERS
#3 REACTOR
ITEM DA 415
12'-0"
26'-0"
8'-1"
8'-1"
6'-0"
INSULATION
55 1/2" O.D.
TAN.
1-1" COUP.
3-2" NOZZLE
1-3" "
1-4" "
2-6" "
2-18" MANWAY
1/2" Sq. NUT (C.S.)
ON 10" Sq. CENTERS
(BOTTOM HEAD)
EFFLUENT RECTIFIER
ITEM DA 416
16'-0"
2'-0"
EI



RECTIFIER
)A 416



EFFLUENT FILTER
ITEM FD 405



FEED EFFLUENT EXCHANGER
ITEM EA 420A & B

DWG. NO	TITLE	NO.	DESCRIPTION	MADE BY	DATE	CK
REFERENCE DRAWINGS		REVISIONS				

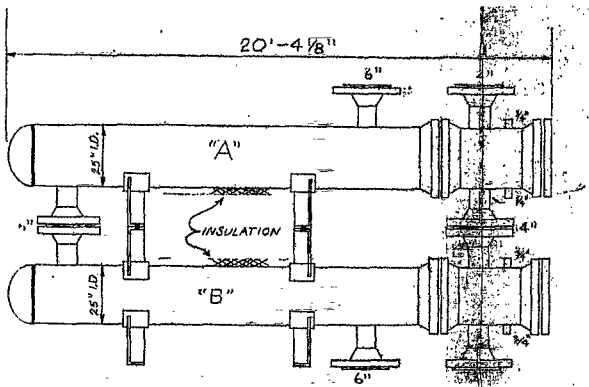
INSULATION

300# A.S.A. STD. R.F. F.S.

TANK

3" 300# A.S.A. R.F.

FILTER
4.05



FEED EFFLUENT EXCHANGER
ITEM EA 420A & B

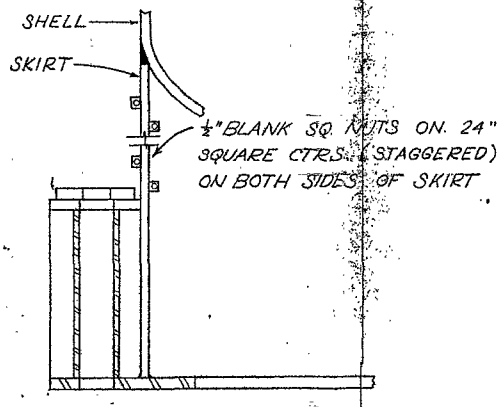
DWG. NO	TITLE
REFERENCE DRAWINGS	

NO.	DESCRIPTION	MADE BY	DATE	CHKD. BY	DATE	CONTROL
REVISIONS						

HYDROCON, INCORPORATED
TULSA, OKLAHOMA

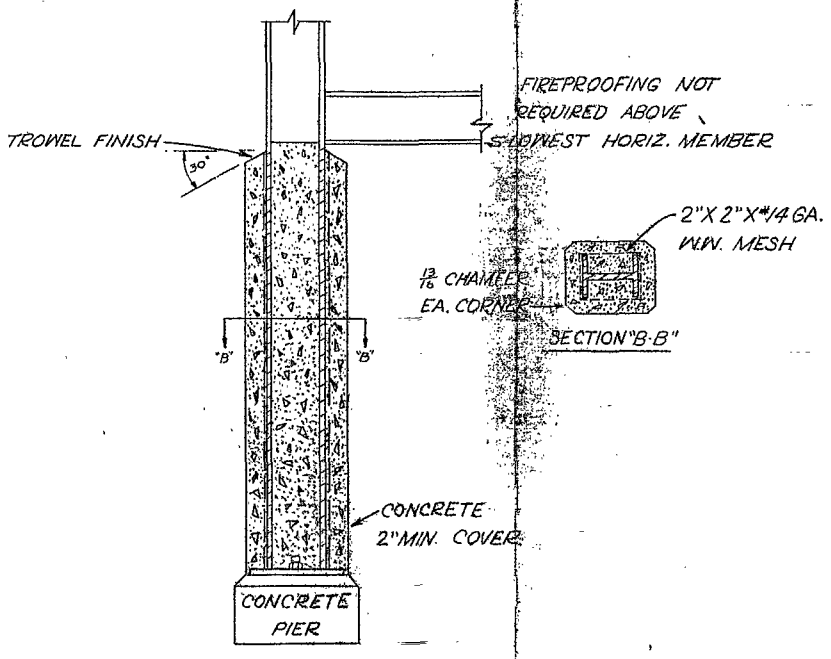
INSULATED EQUIPMENT OUTLI
CUMENE UNIT 125 MM. LBS/YEA
SUNTIDE REFINING CO. CORPUS CHRISTI, T

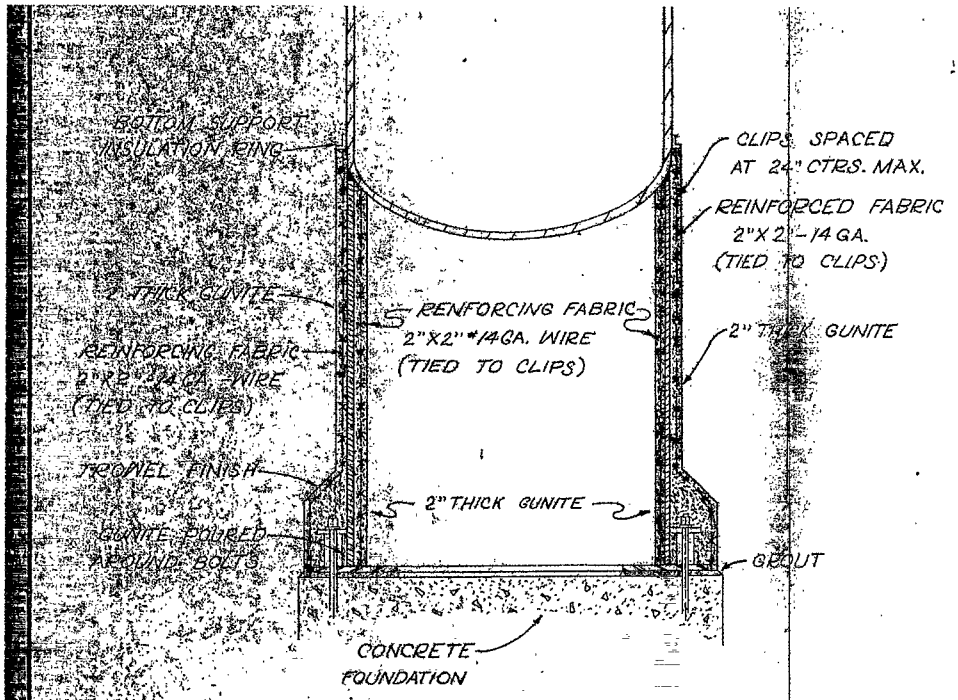
DESIGNED BY	DATE	SCALE	NONE
DRAWN BY DAP	DATE 10-7-66	FILE	
CHECKED BY JAW	DATE 11-7-66	65006-800	
APPROVED BY	DATE 11-7-66		



NUT LOCATION DETAIL

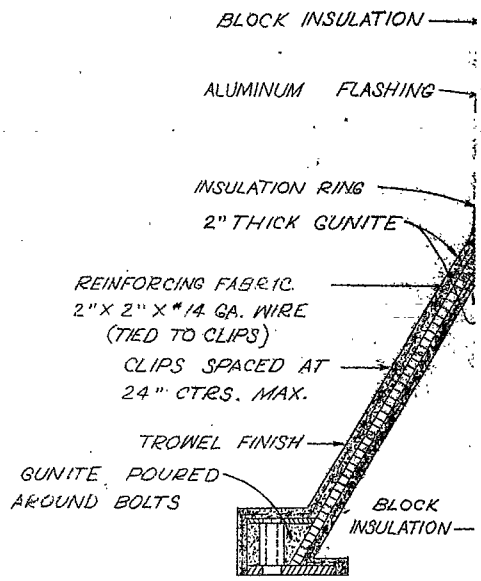
(TYP. ALL VESSELS SKIRT)


FIREPROOFING NOT
REQUIRED ABOVE
LOWEST HORIZ. MEMBER
TROWEL FINISH
30°
2"X 2"X #14 GA.
WLM. MESH
13/16 CHAMFER
EA. CORNER
SECTION "B-B"
"B"
"B"
CONCRETE
2" MIN. COVER
CONCRETE
PIER



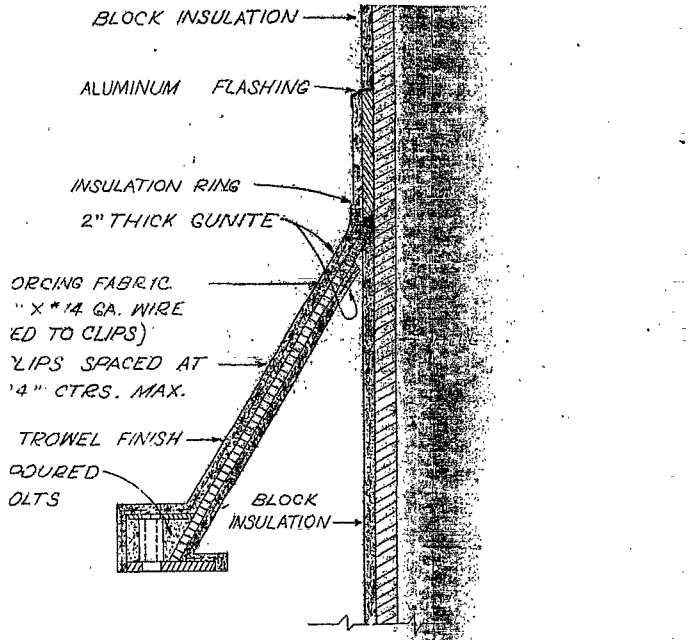
VESSEL SKIRT FIREPROOFING

(TYP. ALL VESSELS SKIRT)



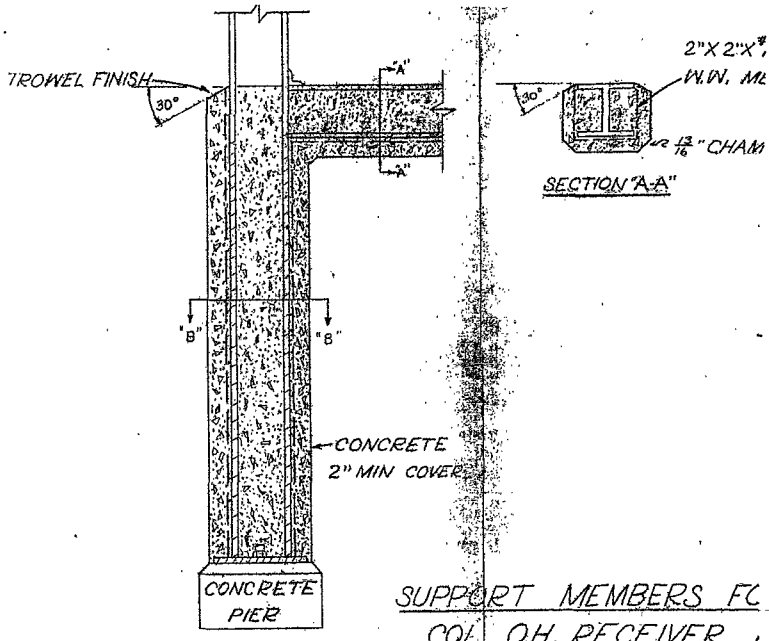
SUPPORT SKIR

REACTOR



SUPPORT SKIRT FIREPROOFING

REACTOR #3 DA 415

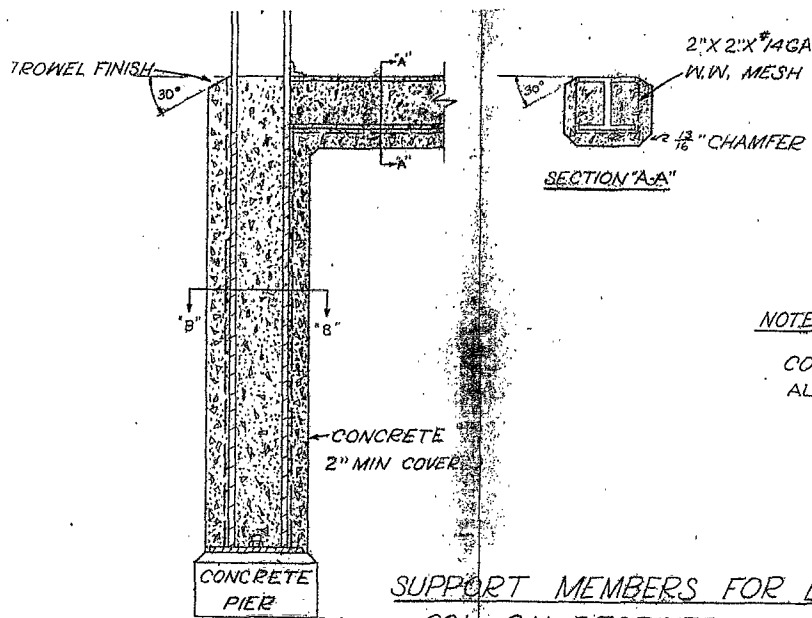


SUPPORT MEMBERS FC

COL O.H. RECEIVER

DWG NO	TITLE
REFERENCE DRAWINGS	

NO	DESCRIPTION	MADE BY	DATE	CHKD BY	DAT
REVISIONS					



NOTE

CONTRACTOR TO PROVIDE ALL MATERIALS.

SUPPORT MEMBERS FOR BENZENE COL. O.H. RECEIVER FA-410 (ONLY)

FIREPROOFING

DA-4-15

DWG NO	TITLE	NO	DESCRIPTION	MADE BY	DATE	CHKD BY	DATE	CONTROL
REFERENCE DRAWINGS		REVISIONS						

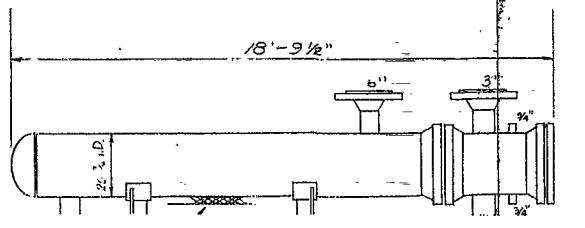
HYDROCON, INCORPORATE
TULSA, OKLAHOMA

FIREPROOFING DETAIL
CUMENE UNIT
125 MM LBS/YR

SUNTIDE REFINING CO. CORPUS CH

DESIGNED BY	DATE	SCALE	NONE
DRAWN BY D.C.P.	DATE 10-12-6	FILE	
CHECKED BY	DATE 11-7-6	65006-3	
APPROVED BY	DATE		

11-7-6



INSULATED EQUIPMENT

TOWERS:

		OPER. TEMP.
BENZENE COL.	DA-417	395°F
#3 REACTOR	DA-415	450°F
EFFLUENT RECTIFIER	DA-416	400°F
EFFLUENT FILTER	FD-405	435°F

EXCHANGERS:

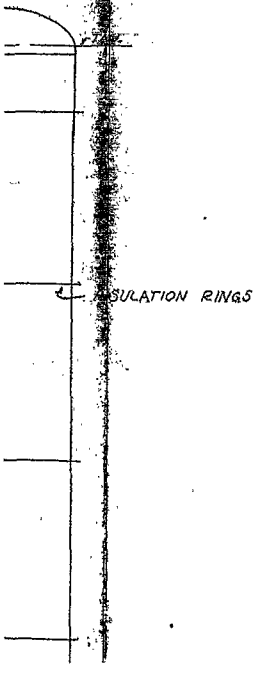
FEED-EFFLUENT EXCHANGER	EA-420 A&B	375°F
COMBINED FEED PREHEATER	EA-421	415°F.

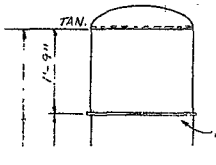
PUMPS:

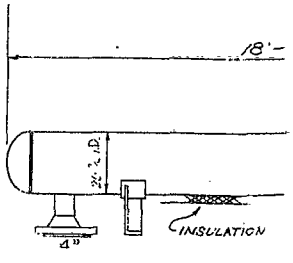
DE C3 BTMS.	GA-407S	PACIFIC 2½-JTC	345°F
BENZENE COL. BTMS.	GA-426	2½×10½ SURP	375°F
BENZENE COL. SPARE	GA-426S	2½×10½ SURP	375°F
#1 CUMENE COL. BTMS.	GA-429	1×6½ SURP	355°F
#1 CUMENE COL. SPARE	GA-429S	1×6½ SURP	355°F

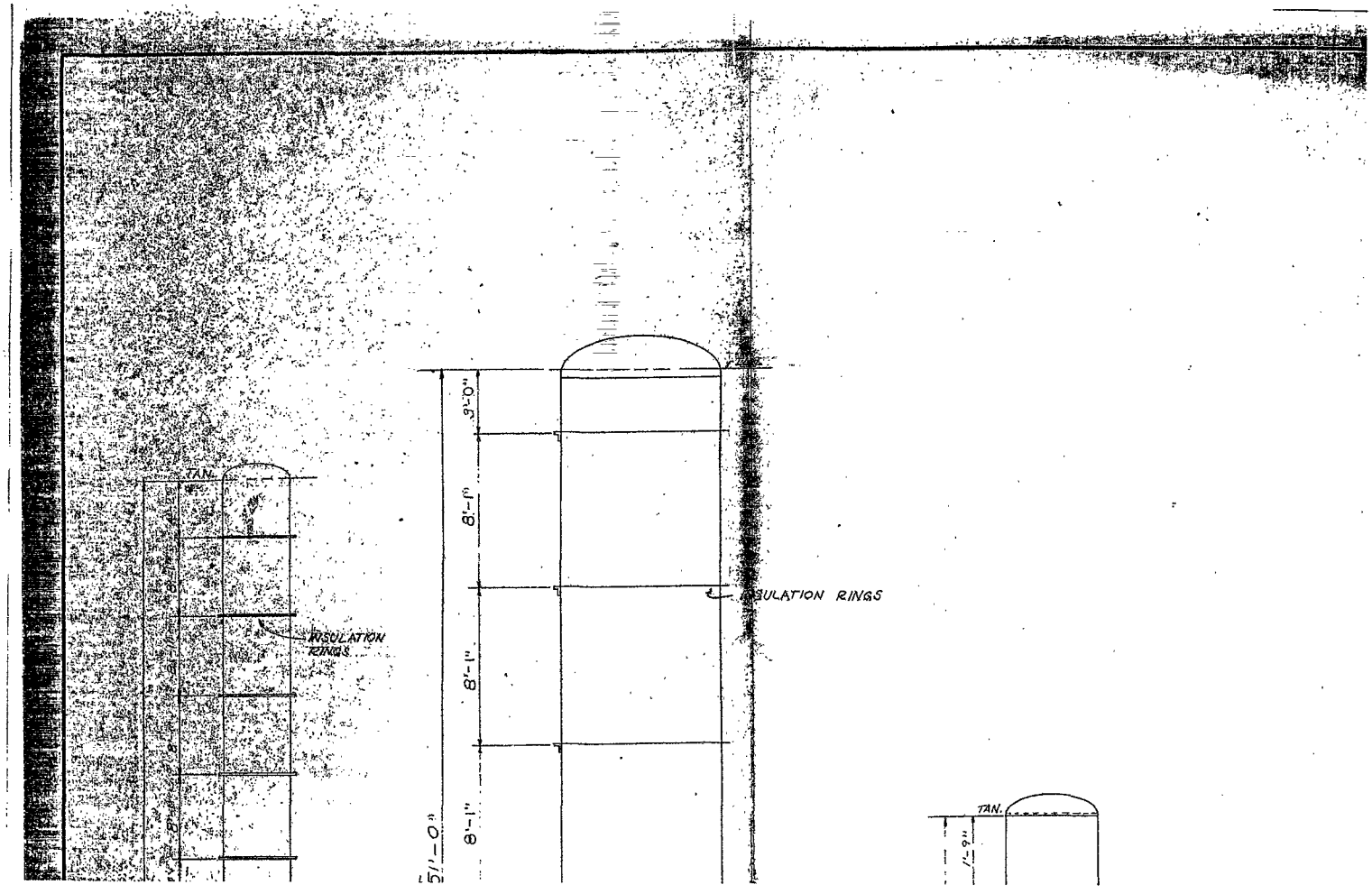
TURBINES:

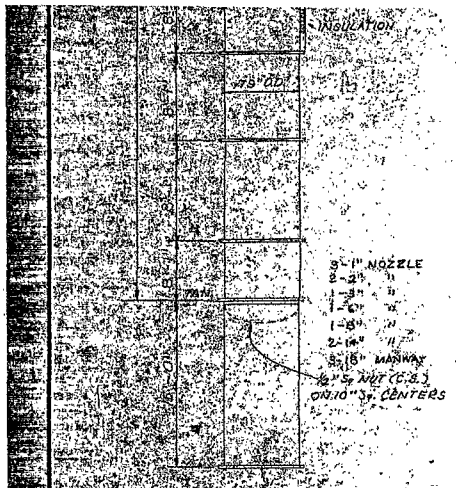
DRIVER	GA-407S	ELLIOTT 2BHRH	560°F
DRIVER	GA-427	ELLIOTT 2BHRH	560°F
DRIVER	GA-427S	ELLIOTT 2BHRH	560°F
DRIVER	GA-426S	COPPUS TF-16L	366°F


SULATION RINGS

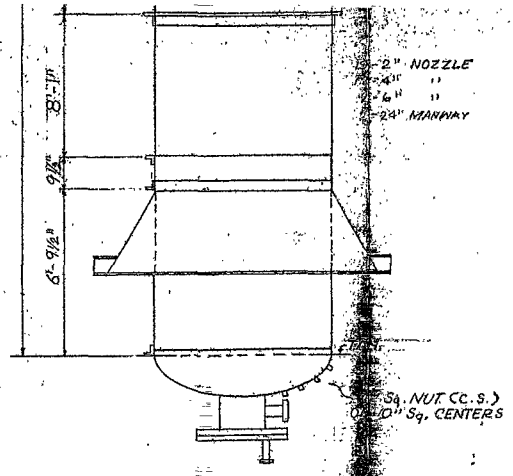

TAN.
INSULATION RINGS


18'-
INSULATION

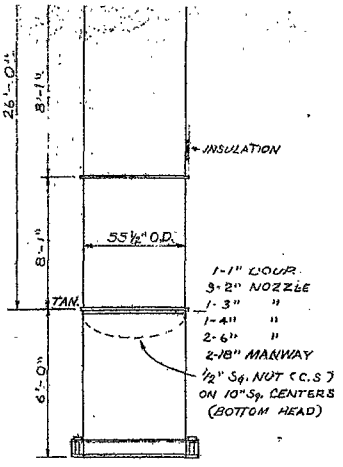

TAN.
INSULATION RINGS
51'-0"
8'-1"
8'-1"
8'-1"
3'-0"
INSULATION RINGS
TAN.
1'-9"



BENZENE COL
ITEM DA-417

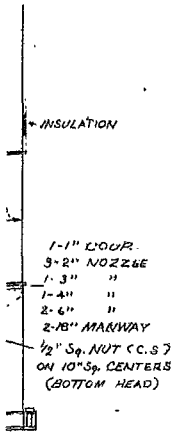


#3 REACTOR
ITEM DA-415

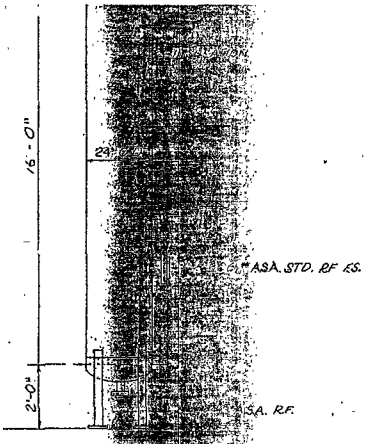


EFFLUENT RECTIFIER
ITEM DA-416

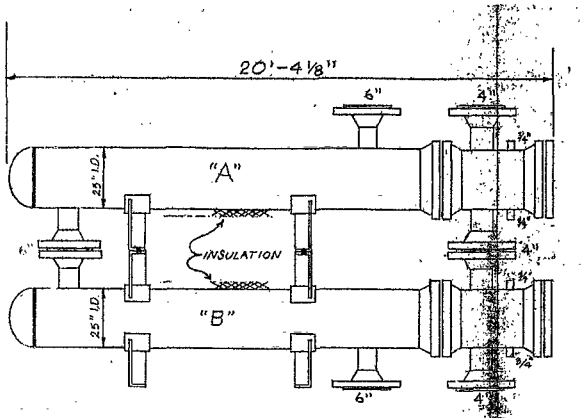
EF



CTIFIER
416

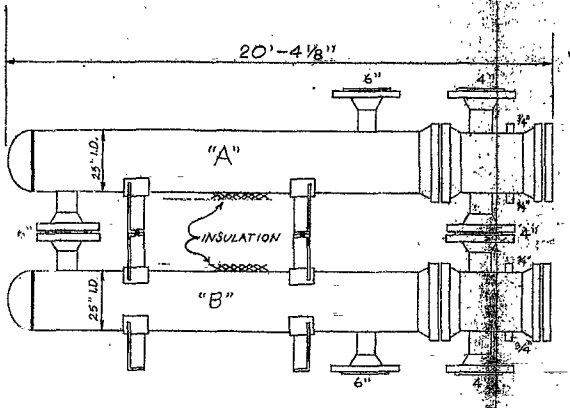


EFFLUENT
ITEM



FEED EFFLUENT EXCHANGER
ITEM EA 420A & B

DWG NO	TITLE	NO	DESCRIPTION	MADE BY	DATE	CHKD. BY	⊕
REFERENCE DRAWINGS		REVISIONS					



FEED EFFLUENT EXCHANGER
ITEM EA 420A & B

DWG NO	TITLE
REFERENCE DRAWINGS	

NO	DESCRIPTION	MADE BY	DATE	CHKD BY	DATE	CONTROL
	REVISIONS					

HYDROCON, INCORPORATED
TULSA, OKLAHOMA

INSULATED EQUIPMENT OUTLINES
CUMENE UNIT 125 MM. LBS/YEAR
CANTIDE REFINING CO. CORPUS CHRISTI, TEX.

DESIGNED BY	DATE	SCALE	NONE
DRAWN BY DCP	DATE 10-7-66	FILE	
CHECKED BY [illegible]	DATE 11-7-66	65006-800	REV. 0
APPROVED BY [illegible]	DATE 11-7-66		