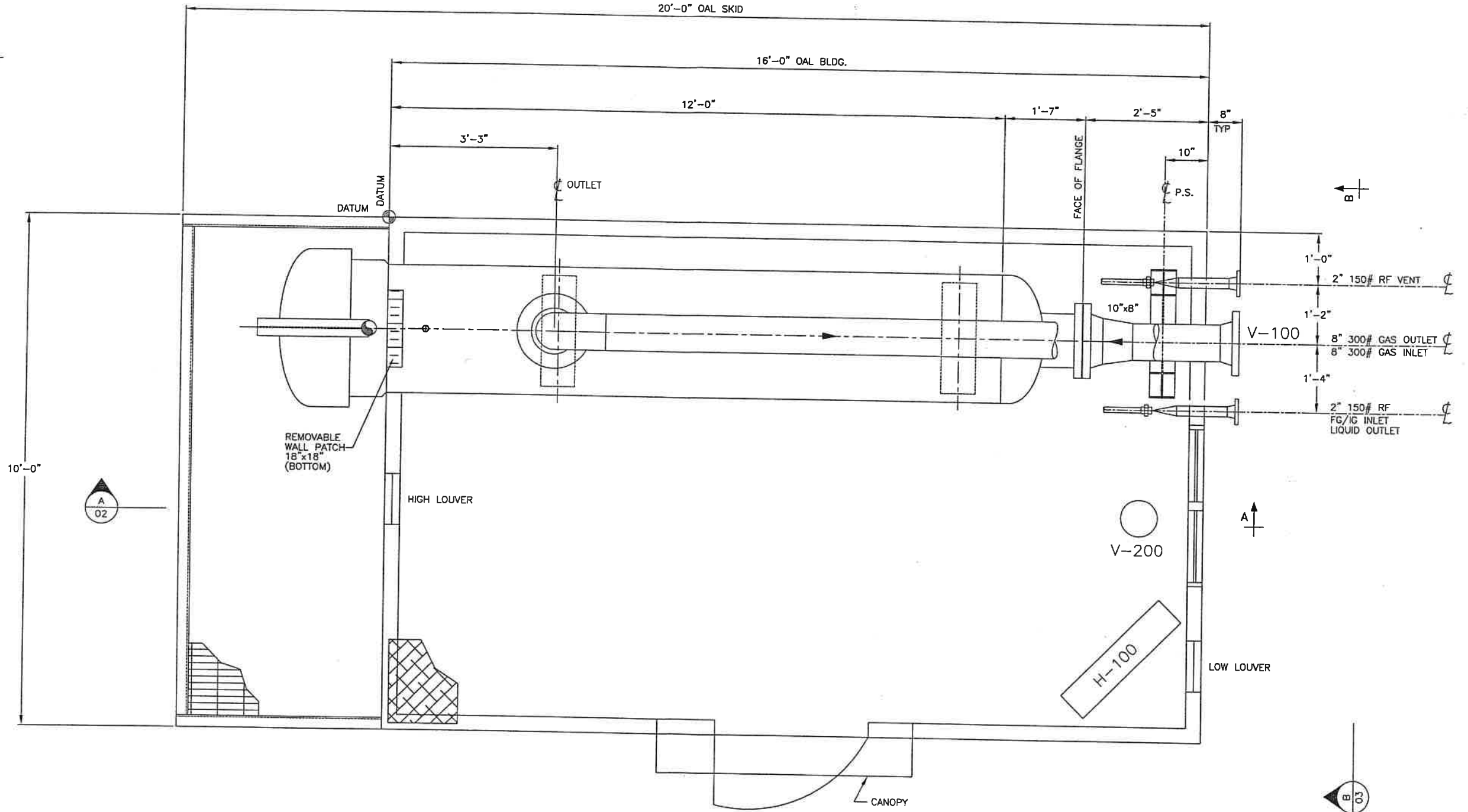
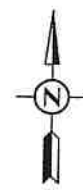




PLAN

PAINTING NOTES:

PREP: SSPC-SP-2
PRIMER: (1) RUSTOLEUM PRIMER
FINISH: (1) COAT RUSTOLEUM ENAMEL LIGHT GREY
OTHER: LIGHT GREY ON PIPING, VESSELS & EQUIPMENT

BUILDING NOTES:

CONSTRUCTION: SELF FRAMING
ROOF TYPE: GABLE
ROOF SLOPE: 3:1
EXT. MATERIAL: PREPAINTED STEEL 22g
EXT. WALL COLOR: TAN, QC-315
EXT. TRIM COLOR: BROWN, QC-228 (& ROOF)
INT. MATERIAL: ALUMINUM 22g
INT. COLOR: PLAIN
WALLS INSULATION: R12
ROOF INSULATION: R12
VAPOR BARRIER: 4 mil
DOORS: (1) 3'x7' c/w PANIC H/W & IWG & CANOPY
WINDOWS: (1) 3'x3' c/w DG SLIDER
VENTS: (2) 12'x12' LOUVRE c/w SLIDER
OTHER: WALL CUTOUT & PATCH

NO.	DESCRIPTION OF REVISION	BY	DATE	CHK'D
1	ISSUED FOR CONSTRUCTION	LV	01/07/02	
0	ISSUED FOR APPROVAL	LV	01/02/02	



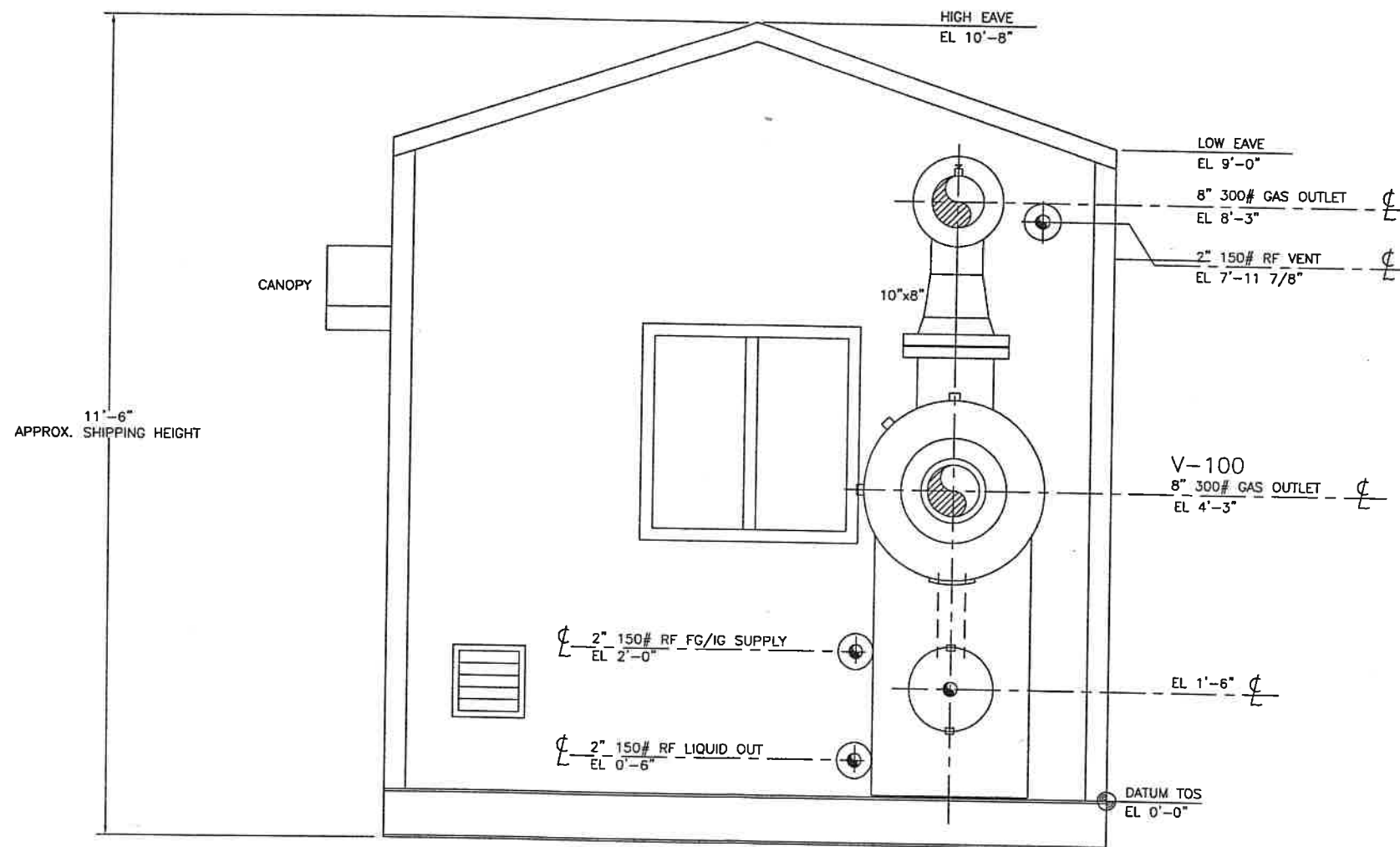
CLIENT: DIRECT ENERGY		
DRAWN	BY	DATE
L. VILLAYERDE		DEC 31/01
CHECKED		
APPROVED		

TITLE		30" OD x 12'-0" S/S FILTER SEPARATOR UNIT PIPING LAYOUT JOB# J-01-298	
SCALE	DRAWING NUMBER		
1"=1'-0"	01-298-LAY-01		

1077

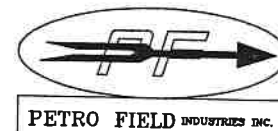
02.02.04

FEB 11 2002



B
01 ELEVATION

NO.	DESCRIPTION OF REVISION	BY	DATE	CHK'D
1	ISSUED FOR CONSTRUCTION	LV	01/07/02	
0	ISSUED FOR APPROVAL	LV	01/02/02	

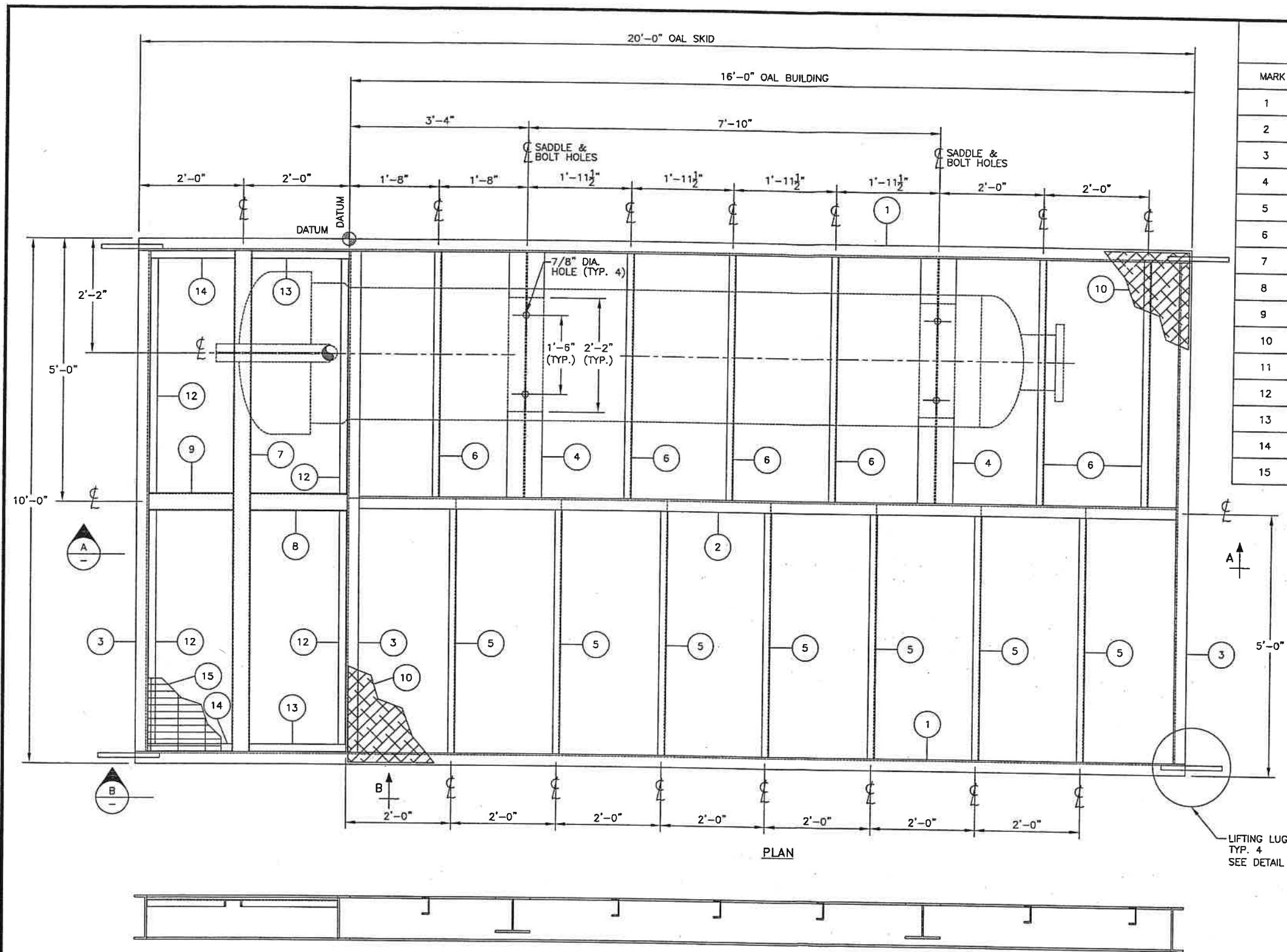


CLIENT: DIRECT ENERGY		
DRAWN	BY	DATE
L. VILLARDE	JAN 02/01	
CHECKED		
APPROVED		

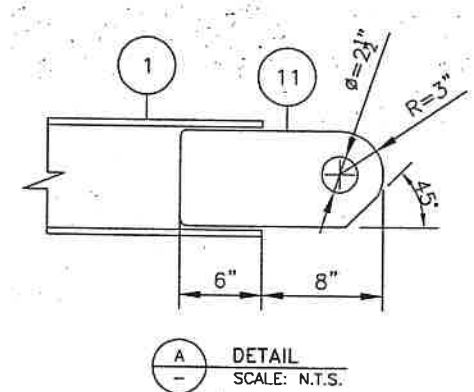
TITLE 30" OD x 12'-0" S/S FILTER SEPARATOR UNIT PIPING ELEVATIONS JOB# J-01-298	
SCALE	DRAWING NUMBER
1"=1'-0"	01-298-LAY-03

107

FEB 11 2002

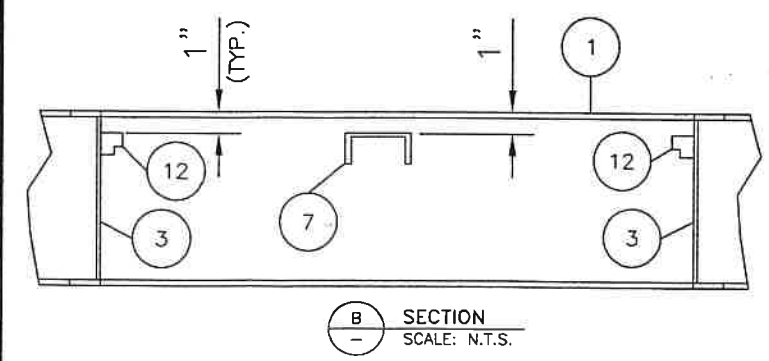


BILL OF MATERIAL		
MARK	QTY	DESCRIPTION
1	2	C10x20 x 20'-0" LG.
2	1	C10x20 x 15'-8 7/8" LG.
3	3	C10x20 x 9'-6 1/2" LG.
4	2	WBx31 x 4'-7 3/4" LG.
5	7	C4x5.4 x 4'-10 3/8" LG.
6	6	C4x5.4 x 4'-7 3/4" LG.
7	1	C4x5.4 x 9'-6 1/2" LG.
8	1	C4x5.4 x 1'-10" LG.
9	1	C4x5.4 x 1'-7 1/4" LG.
10	-	CHECKER PL: 9'-10"x15'-10"x3/16" THK.
11	4	PLATE: 8 7/8"x14"x1" THK. (CTS)
12	4	ANGLE: 1 3/4"x1 3/4"x1/4" THK.x4'-5 1/2" LG.
13	2	ANGLE: 1 3/4"x1 3/4"x1/4" THK.x1'-10" LG.
14	2	ANGLE: 1 3/4"x1 3/4"x1/4" THK.x1'-7 1/4" LG.
15	-	GRATING: 3'-9 1/4"x9'-6 1/2"x1" THK. (CTS)



PLAN

SECTION A



SKID NOTES:
 UNDERSKID INSULATION: NONE
 FIRE RETARDANT COATING: NONE
 OTHER:

NO.	DESCRIPTION OF REVISION	BY	DATE	CHK'D
0	ISSUED FOR CONSTRUCTION	RF	01/07/02	



CLIENT: DIRECT ENERGY		
DRAWN	BY	DATE
CHECKED		
APPROVED		

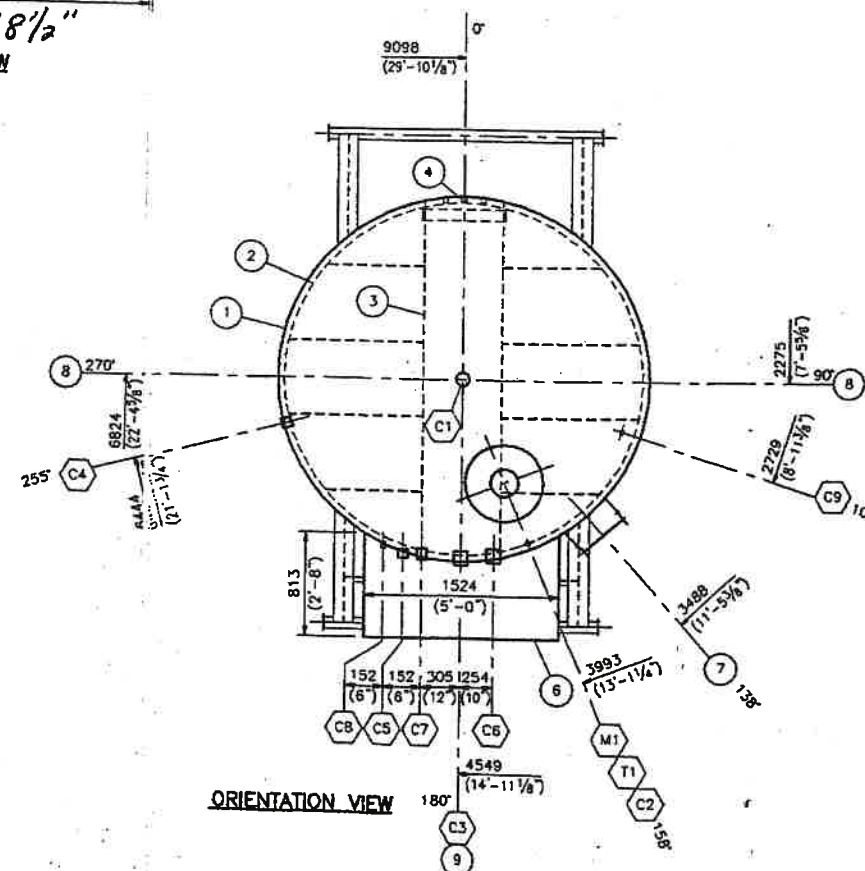
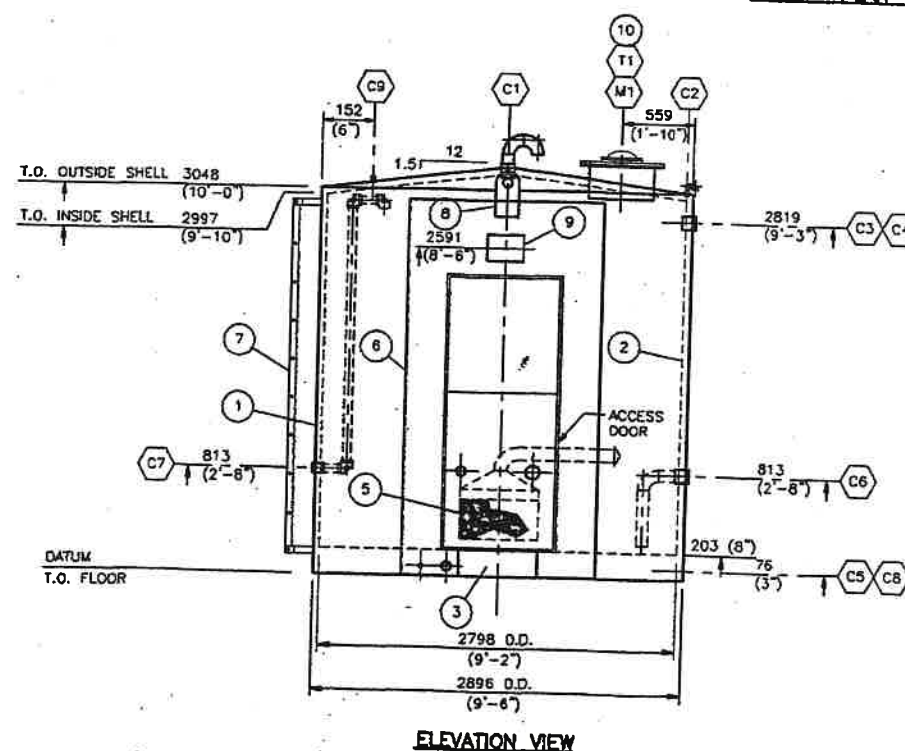
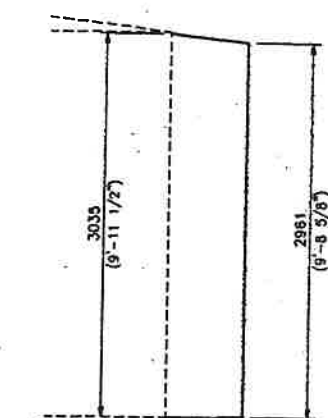
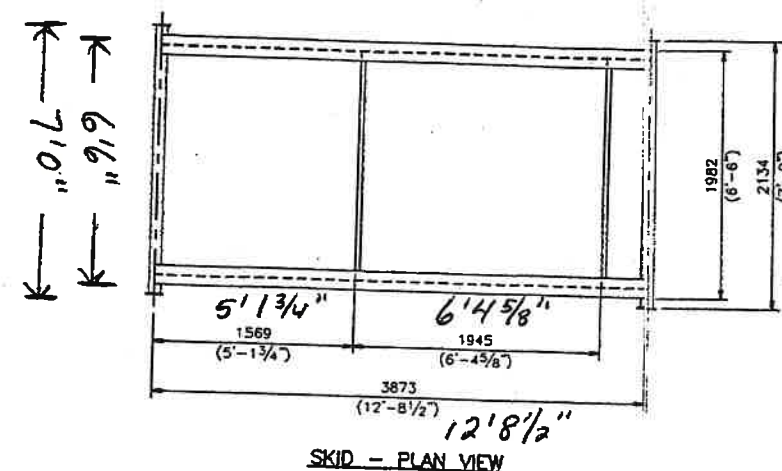
TITLE		30" OD x 12'-0" S/S FILTER SEPARATOR UNIT SKID LAYOUT JOB# J-01-298
SCALE	DRAWING NUMBER	
1"=1'-0"	01-298-SKD-01	

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GENERAL NOTES			
DESIGN		PAINTING AND INSULATION	
DESIGN CODE: API SPEC. 12F, ELEVENTH EDITION, NOV. 1, 1994	ADDITIONAL CODES: API SPEC. 850, NINTH EDITION, MAY 1993	INTERNAL FINISH	INSULATION
DESIGN PRESSURE: 4 oz/sq. in. (1.72 MPa)	DESIGN VACUUM: 4 oz/sq. in. (1.72 MPa)	EXTERNAL FINISH	
RADIOGRAPHY: NONE	JOINT EFFICIENCY: N/A		
IMPACT TESTING: N/A	AIR-TEST PRESSURE	CORROSION ALLOWANCE: NONE	
MINIMUM DESIGN METAL TEMPERATURE: -29°C (-20°F)	SERVICE: WATER, OIL, GAS	CAPACITY: 17 cu. m. (100 Bbl) NOM	
OVERALL HEIGHT: 3500mm (11'-6")	WEIGHT: dry: operating: design:	OVERALL WIDTH	
APPURTENANCE & ATTACHMENT WELD DETAILS (n.t.s.)			
COUPLING C3,C4,C6,C7	COUPLING C2,C5,C8	COUPLING C1	NOZZLE T1
COUPLING C1	NOZZLE M1		

NOZZLE SCHEDULE									
MK#	NO.	SIZE	SCH.	RATE	TYPE	INT.	EXT.	REPAID	DESCRIPTION
C1	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	ROOF VENT
C2	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	SECONDARY CONTAINMENT VENT
C3	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	LEVEL SWITCH HIGH
C4	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	SECONDARY CONTAINMENT PUMP OUT
C5	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	PUMP OUT w/DOWNCOMER
C6	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	INLET
C7	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	LEAK DETECTION
C8	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	GAUGE BOARD
C9	1	3/16"	-	3000#	FULL ORG.	INT.	HALF	YES	
T1	1	3/16"	-	FAB'D				YES	THEFT HATCH
M1	1	3/16"	-	FAB'D				YES	ROOF MANWAY

MATERIAL LIST			
MK#	QTY.	DESCRIPTION	WT.
1	1	OUTER TANK SHELL	
2	1	INNER TANK SHELL	
3	1	HEAT TUBE	
4	1	VENTING TUBES (THREE)	
5	1	CATADYNE HEATER 12x24 w/VENT HOOD AND PIPE	
6	1	HEATER CABINET	
7	1	LADDER	
8	1	LIFTING LUGS	
9	1	NAMEPLATE	
10	1	THEFT HATCH (4 oz PRESS. 0.4 oz VAC.)	
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WELD DETAILS	
SHELL JOINT - VERTICAL	SHELL JOINT - HORIZONTAL
SHELL TO FLOOR	SHELL TO ROOF
FLOOR JOINT	ROOF JOINT

- NOTES
- ALL FLANGE RATINGS TO BE ANSI B16.5 LATEST EDITION.
 - FLANGE AND BOLT HOLES TO STRADDLE PRINCIPLE CENTERLINES.
 - INSIDE EDGES OF NOZZLE NECKS, INSPECTION OPENINGS, AND MANWAYS SHALL BE ROUNDED TO A RADIUS OF 1/4" MIN. OR ONE HALF THE WALL THICKNESS IF THE PIPE WALL IS LESS THAN 1/2".
 - ALL DIMENSIONS ARE IN MILLIMETERS. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.
 - ALL NOZZLE PROJECTIONS ARE MEASURED ALONG NOZZLE CENTERLINE.

								FILE NO.
								1401
								DRAWN
								CAF
								CHECKED
								APPROVED
NUMBER	TITLE	A	14/0/02/00	ISSUED FOR APPROVAL		CAF		
		NO.	DATE	DESCRIPTION		BY	APP'D	ORIGINATING DEPT.
	REFERENCE DRAWINGS			REVISIONS				

Wilco Industries Ltd.
NEILBURG, SASK.

DOUBLE WALLED TANK WITH SKID
17 cu.m. (100 BBL)
2896mm DIA x 3048mm HIGH
9'-6" DIA x 10'-0" HIGH

FEB 11 2002

WILCO

SCALE
1 : 30
DATE
14/02/00
FILE
1401T0
DRAWING NO.
T-1401-D101A
REV