

N. 0+10.000
S. 0+00.000
S. 0+10.000
S. 0+20.000
S. 0+30.000
S. 0+40.000
S. 0+50.000
S. 0+60.000
S. 0+70.000
S. 0+80.000
S. 0+90.000
S. 1+00.000
S. 1+10.000
S. 1+20.000
S. 1+30.000
S. 1+40.000
S. 1+50.000
S. 1+60.000
S. 1+70.000
S. 1+80.000
S. 1+90.000
S. 2+00.000
S. 2+10.000
S. 2+20.000
S. 2+30.000

DATE	DESCRIPTION	BY	CHK.	APPD.	CLIENT
2017-03-14	FOR 2015-BLP-011	HN	JNZ		
99.08.20	ADDED SK-1000, T-1110	SW	GP		
97.02.04	AS BUILT	LGP			
96.08.05	REVISED AS NOTED	S.L.	S.L.		
96.06.14	ISSUED FOR CONSTRUCTION	S.L.	S.L.		
No	DATE			REVISIONS	

DATE
95.07.30

DATE

APPROVED:

CLIENT APPROVAL:

SCALE: 1:500

PROJECT No: G95-135

CNRL DWG. No: BUR1414-210-03

GEMINI DWG. No: G95-135-PP-001

REV: 4

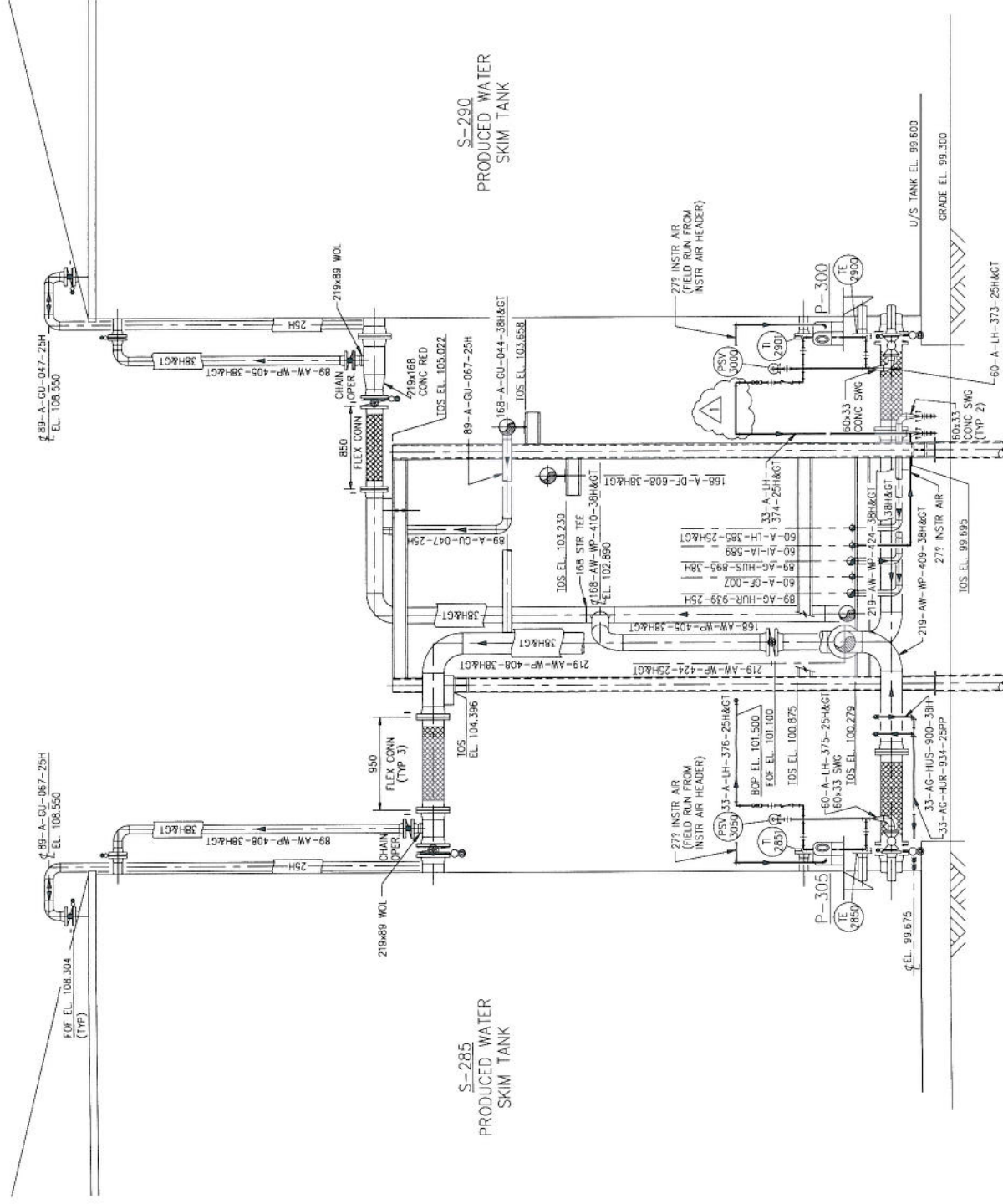
Canadian Natural

Canadian Natural Resources Limited

BURNT LAKE THERMAL PROJECT

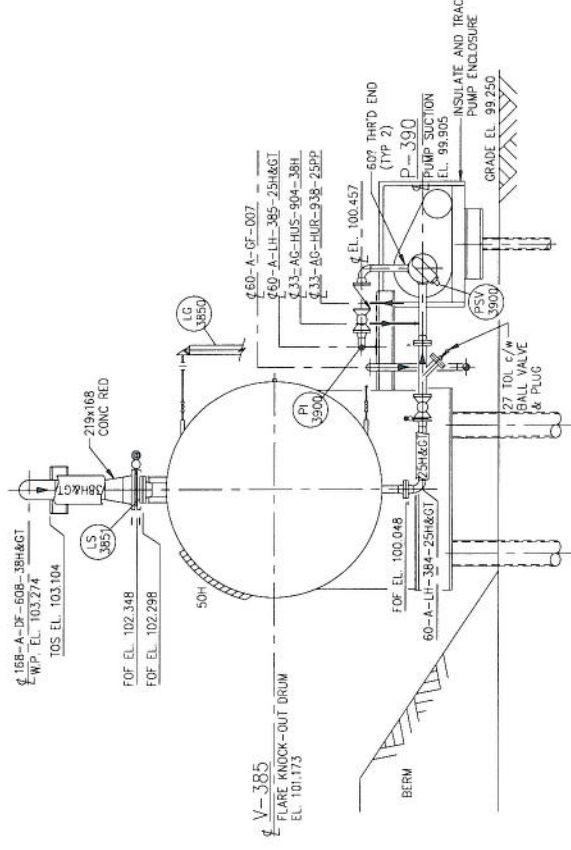
14C PAD - N.W. 1/4 SEC. 14 TWP. 67 RGE. 3 W.4 M.

PLOT PLAN



S-285
PRODUCED WATER
SKIM TANK

S-290
PRODUCED WATER
SKIM TANK



SECTION A
1:30
014

SECTION B
1:30
014

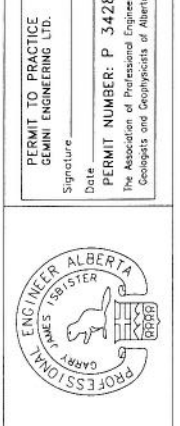
NO INSULATION OR TRACING REQUIRED
INSIDE UTILIDOR.

DRAWN: GRAMLER DATE: 96.06.17
CHECKED: MOW DATE: 96.06.20
APPROVED:

Gemini Engineering Ltd.

PROJECT MANAGEMENT - DESIGN
CALGARY, ALBERTA

PERMIT TO PRACTICE
GEMINI ENGINEERING LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P 3428
The Association of Professional Engineers,
Geoscientists and Geophysicists of Alberta.



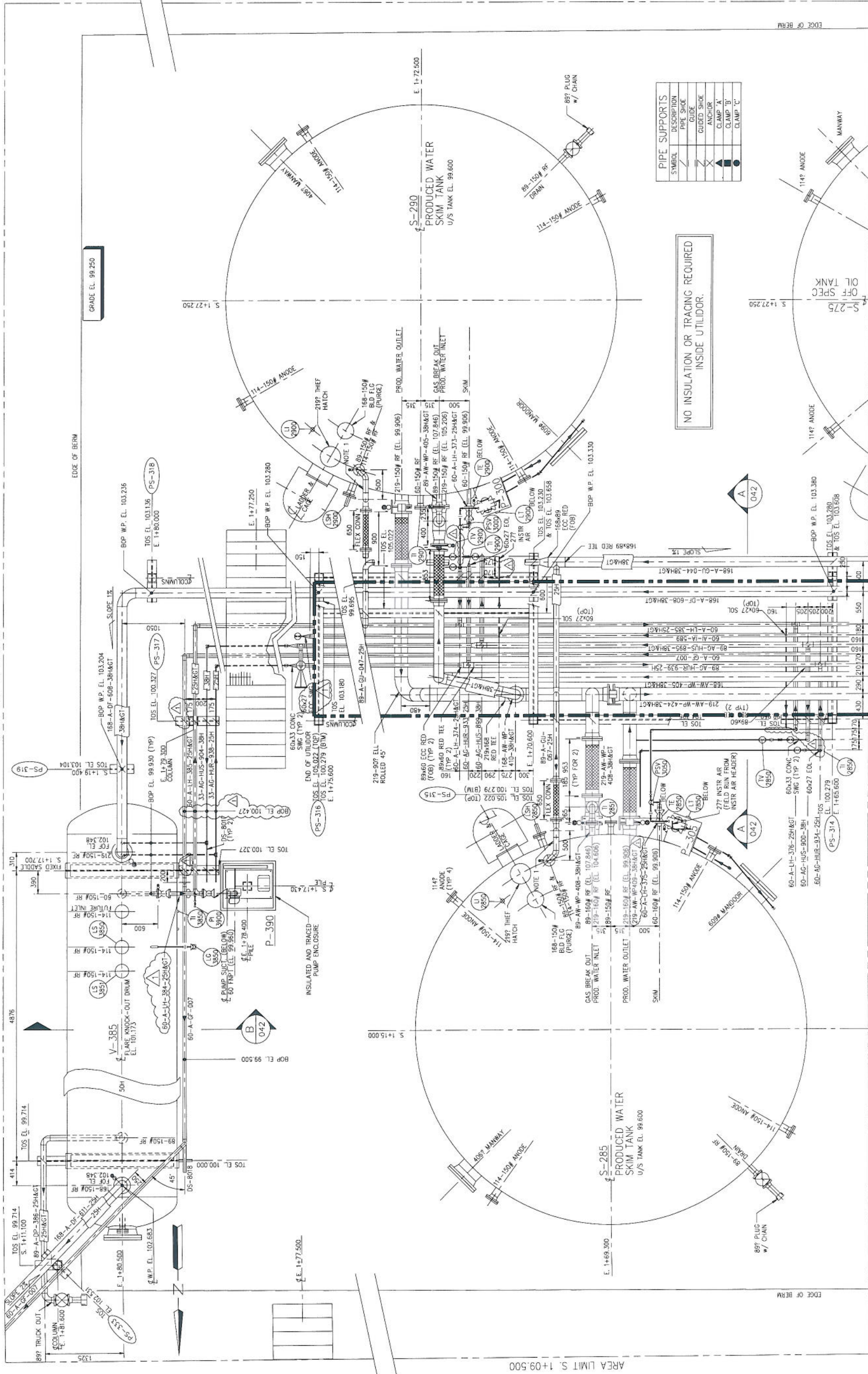
NO.	DATE	REVISIONS	CHK.	APPD.	CLIENT APPL.
1	96.07.22	REVISED AS NOTED	JGC		
0	96.06.27	ISSUED FOR CONSTRUCTION	GAR	MOW	
No					

CLIENT APPROVAL:
SCALE: 1:30
PROJECT No.: C95-135
GEMINI DWG. No.: D-BUR1414-230-47
GEMINI DWG. No.: G95-135-PIP-042
REV: 1

Resources Group
BURNT LAKE THERMAL PROJECT
TANK FARM S-285/S-290
YARD PIPING SECTION

AREA LIMIT E. 1+82.500

AREA LIMIT S. 1+32.250



PIPE SUPPORTS	
SYMBOL	DESCRIPTION
	PIPE SHOE
	GUIDE
	GUIDED SHOE
	ANCHOR
	CLAMP 'A'
	CLAMP 'B'
	CLAMP 'C'

NO INSULATION OR TRACING REQUIRED INSIDE UTILIDOR.

MATCHLINE - E. 1+65.000 - FOR CONTINUATION SEE G95-135-PIP-013

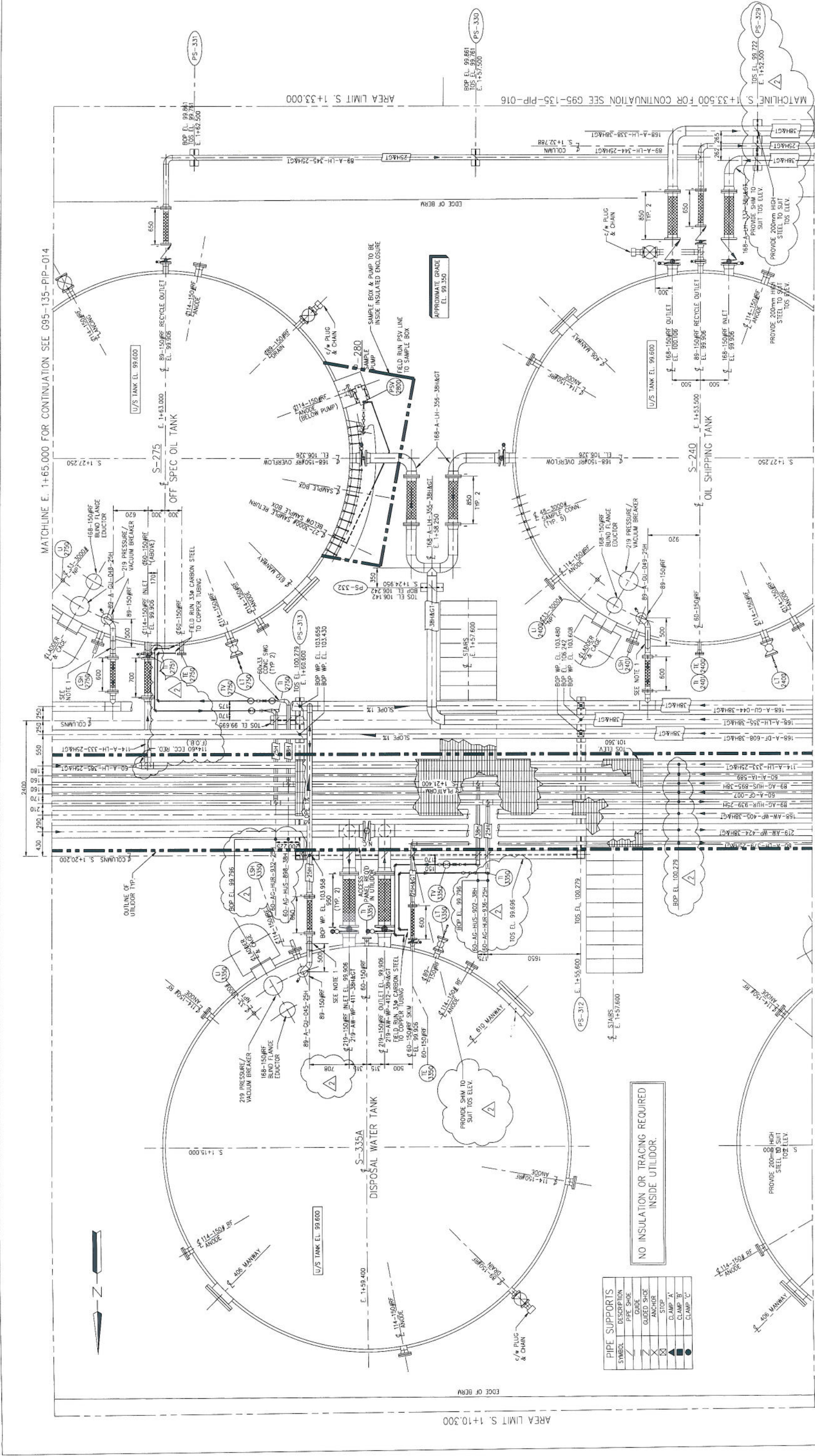
DRAWN: D.J. WEBB		DATE: 06.02.09	PROJECT MANAGEMENT - DESIGN	
CHECKED: MOW		DATE: 06.06.15	CALGARY, ALBERTA	
APPROVED:				
CLIENT: Resources Group		PROJECT: BURNT LAKE THERMAL PROJECT		
APPROVAL:		TANK FARM S-290/S-285/V-385		
SCALE: 1:30		YARD PIPING PLAN		
PROJECT No: G95-135		CLIENT DWG. No: D-BUR1414-230-14		
GEMINI DWG. No: G95-135		REV. 1		

NO.	DATE	REVISIONS	DRAWN	CHK.	APPD.	CLIENT APPL.
1	06.07.22	REVISED AS NOTED	JG			
0	06.05.27	ISSUED FOR CONSTRUCTION	GRR	MOW		

NOTES:

- BLANKET GAS LINES ARE TO BE SUPPORTED WITH DS-8015 TYPE SUPPORT BOLTED TO TANK RIM CHANNEL

FILE NAME: 1\058133\09\06\0615\0914.dwg PLOT DATE:



MATCHLINE E. 1+51.500 FOR CONTINUATION SEE G95-135-PIP-012

MATCHLINE E. 1+65.000 FOR CONTINUATION SEE G95-135-PIP-014

MATCHLINE S. 1+33.500 FOR CONTINUATION SEE G95-135-PIP-016

PIPE SUPPORTS

SYMBOL	DESCRIPTION
(Symbol)	PIPE SHOE
(Symbol)	GUIDE
(Symbol)	GUIDED SHOE
(Symbol)	ANCHOR
(Symbol)	STOP
(Symbol)	CLAMP 'A'
(Symbol)	CLAMP 'B'
(Symbol)	CLAMP 'C'

NO INSULATION OR TRACING REQUIRED INSIDE UTILIDOR.

NOTES:
1. BLANKET GAS LINES ARE TO BE SUPPORTED WITH DS-8015 TYPE SUPPORT BOLTED TO TANK RIM CHANNEL.

REVISIONS

No	DATE	REVISIONS	DRAWN	CHK.	APPRO.	CLIENT APPL.
2	96.09.10	REVISED AS NOTED	JM	JM		
1	96.07.22	REVISED AS NOTED	JJC			
0	96.06.24	ISSUED FOR CONSTRUCTION	D.J.W.	M.O.W.	J.C.M.	



PERMIT TO PRACTICE
GEMINI ENGINEERING LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P 3428
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

Gemini Engineering Ltd.
PROJECT MANAGEMENT — DESIGN
CALGARY, ALBERTA

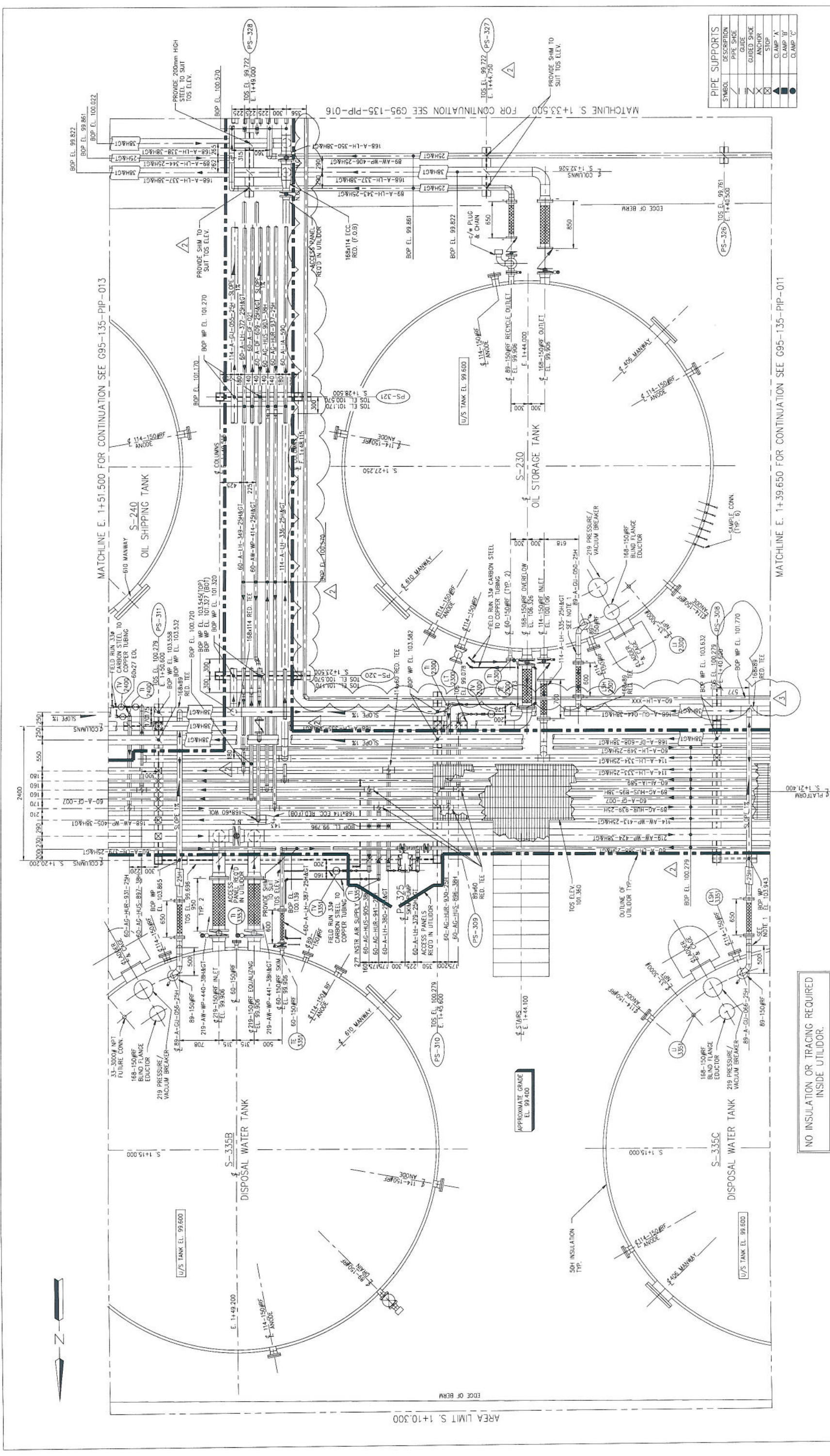
SUNCOOR Inc. Resources Group
BURNT LAKE THERMAL PROJECT
TANK FARM S-335A/S-240/S-275
YARD PIPING PLAN

DRAWN: D.J. WEBB DATE: 96.02.09
CHECKED: M.O.W DATE: 96.06.20
APPROVED: _____

CLIENT APPROVAL: _____
SCALE: 1:30
PROJECT No: G95-135
GEMINI Dwg. No: G95-135-PIP-013
CLIENT Dwg. No: D-BURT1414-230-13

REV. 2

FILE NAME: I:\05135\0\PIP\05135P13.dwg PLOT DATE:



PROJECT MANAGEMENT - DESIGN
CALGARY, ALBERTA

Gemini Engineering Ltd.
SUNCOIL Inc. Resources Group

BURNT LAKE THERMAL PROJECT
TANK FARM S-335B/S-230
YARD PIPING PLAN

DRAWN:	D.J. WEBB	DATE:	96.02.13
CHECKED:	M.O.W	DATE:	96.06.24
APPROVED:			

CLIENT:	SUNCOIL Inc. Resources Group
APPROVAL:	
SCALE:	1:30
PROJECT No.:	G95-135
CLIENT DWS. No.:	D-BUR1414-230-12
GEMINI DWS. No.:	G95-135-PIP-012
REV.:	3

PERMIT TO PRACTICE
GEMINI ENGINEERING LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P 3428
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

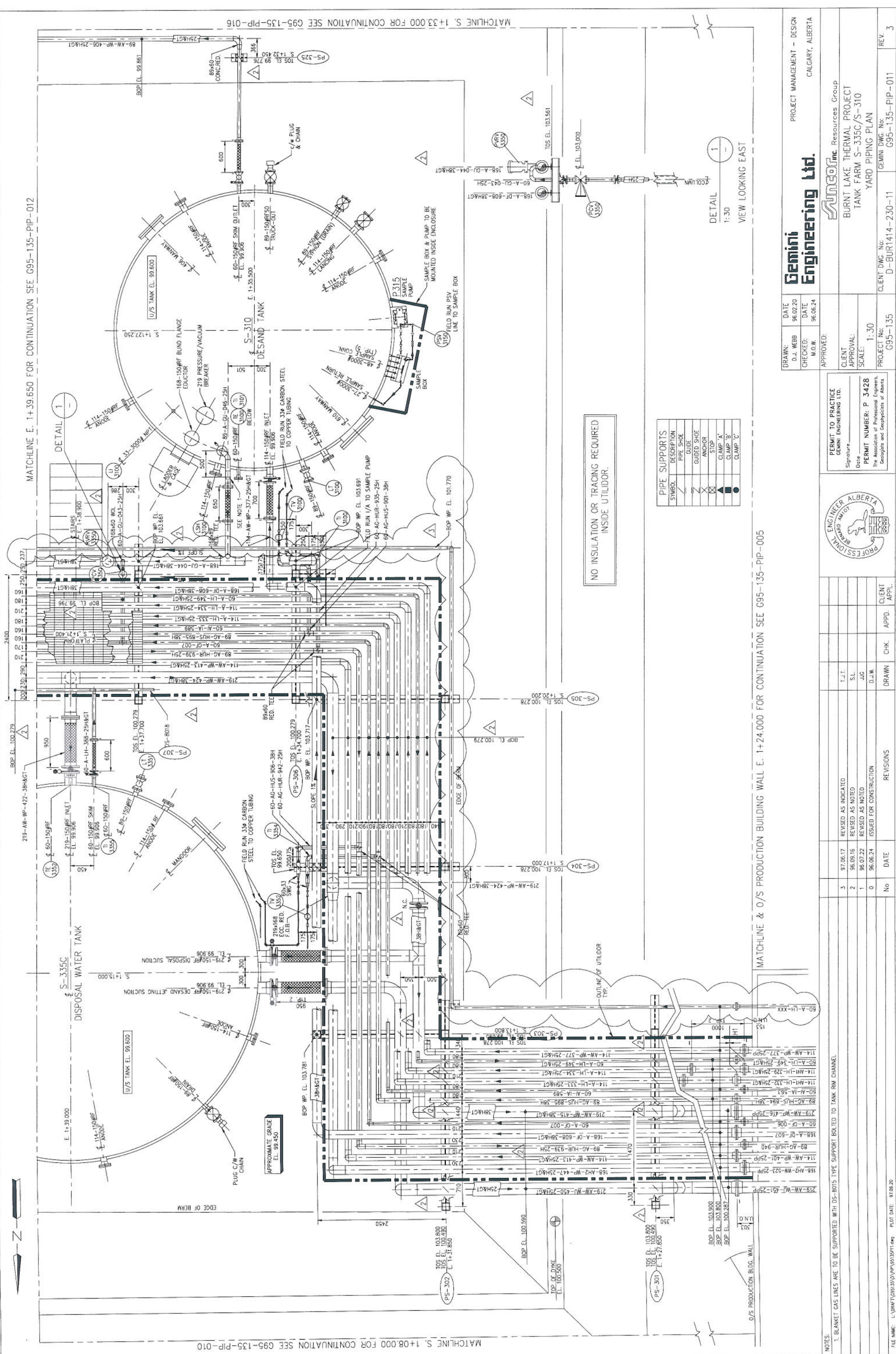
ENGINEER ALBERTA
REG. NO. 10101
PROFESSIONAL ENGINEER

NO	DATE	REVISIONS	DRAWN	CHK	APPD.	CLIENT APPL.
3	97.06.17	REVISED AS INDICATED				
2	96.09.19	REVISED AS NOTED				
1	96.07.22	REVISED AS NOTED				
0	96.06.24	ISSUED FOR CONSTRUCTION				

NOTES:
1. BLANKET GAS LINES ARE TO BE SUPPORTED WITH DS-8015 TYPE SUPPORT BOLTED TO TANK RM CHANNEL

NO INSULATION OR TRACING REQUIRED
INSIDE UTILIDOR.

FILE NAME: L:\PWT\G95135\PIP\WALSH12.dwg PLOT DATE:



NO INSULATION OR TRACING REQUIRED INSIDE UTILIDOR.

PIPE SUPPORTS	
SYMBOL	DESCRIPTION
○	PIPE SLEEVE
□	GUIDE
△	GUIDED SHOE
⊗	ANCHOR
⊕	STOP
▲	CLAMP 'A'
■	CLAMP 'B'
●	CLAMP 'C'

DETAIL 1
1:30
VIEW LOOKING EAST

MATCHLINE & O/S PRODUCTION BUILDING WALL E. 1+24.000 FOR CONTINUATION SEE G95-135-PIP-005

Gemini Engineering Ltd.
 PROJECT MANAGEMENT - DESIGN
 CALGARY, ALBERTA

DATE: 96.02.20
 CHECKED: M.O.W.
 APPROVED: 96.06.24

CLIENT: **SUNCO** Resources Group
 BURNT LAKE THERMAL PROJECT
 TANK FARM S-335C/S-310
 YARD PIPING PLAN

SCALE: 1:30
 PROJECT No: G95-135
 CLIENT DWG. No: D-BUR1414-230-11
 GEMINI DWG. No: G95-135-PIP-011
 REV. 3

PERMIT TO PRACTICE
GEMINI ENGINEERING LTD.
 Signature: _____
 Date: _____

PERMIT NUMBER: P 3428
 The Association of Professional Engineers,
 Geologists and Geophysicists of Alberta

NO.	DATE	REVISIONS	DRAWN	CHK.	APPD.	CLIENT APPL.
3	97.06.17	REVISED AS INDICATED	T.J.T.			
2	96.09.16	REVISED AS NOTED	S.L.			
1	96.07.22	REVISED AS NOTED	JUG			
0	96.06.24	ISSUED FOR CONSTRUCTION	D.J.W.			
No						

NOTES:
 1. BLANKET GAS LINES ARE TO BE SUPPORTED WITH DIS-BOIS TYPE SUPPORT BOLTED TO TANK RIM CHANNEL