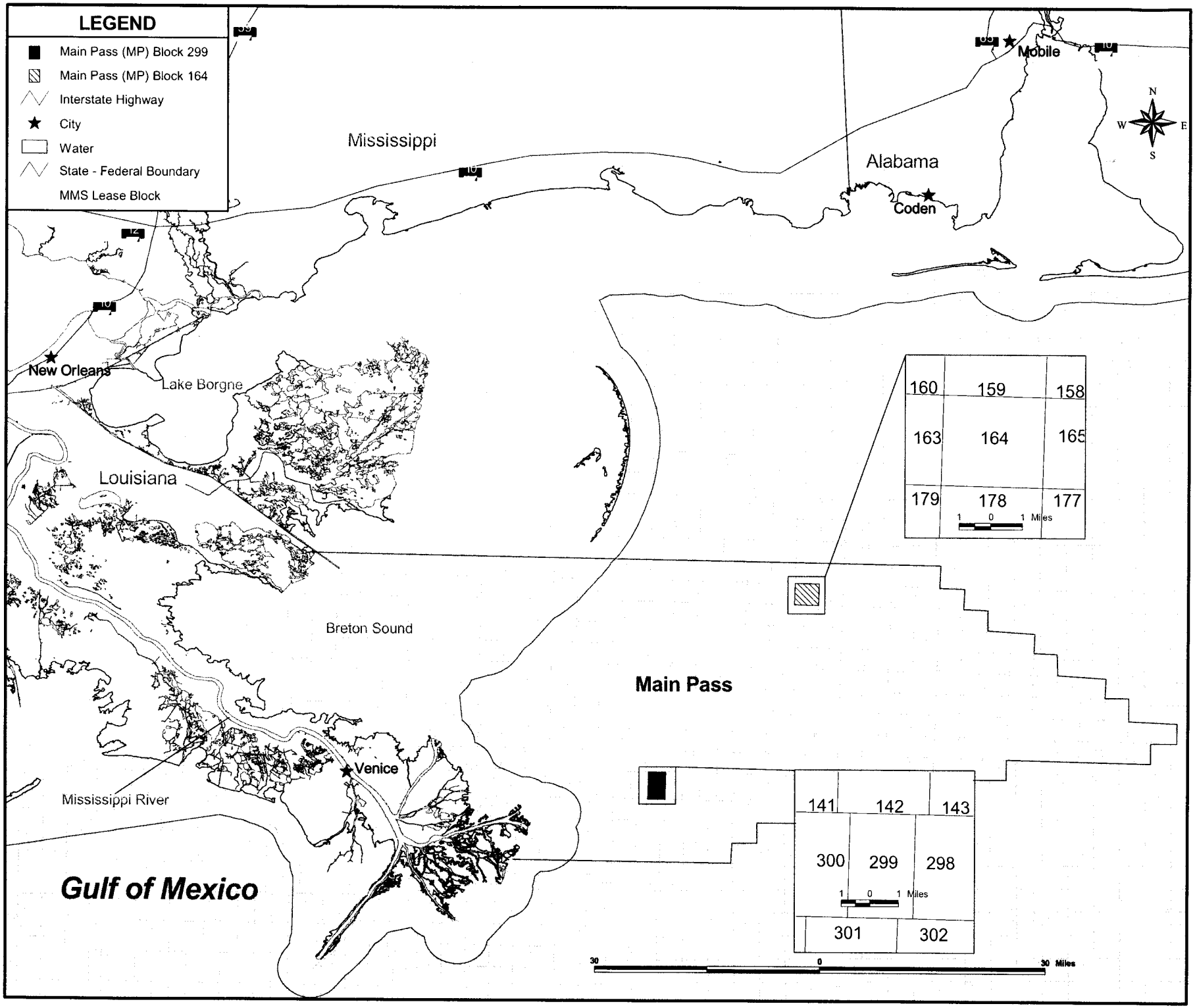
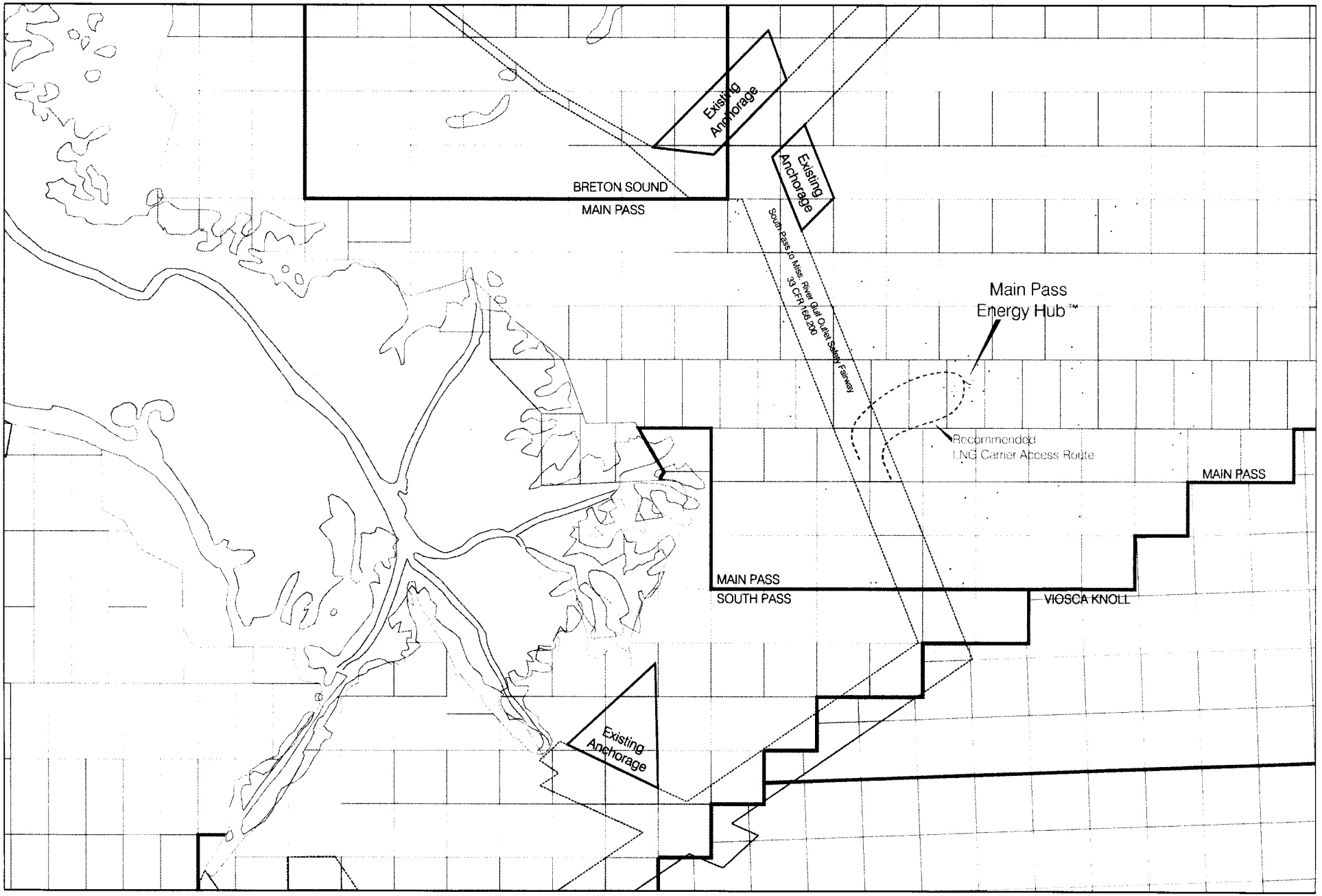
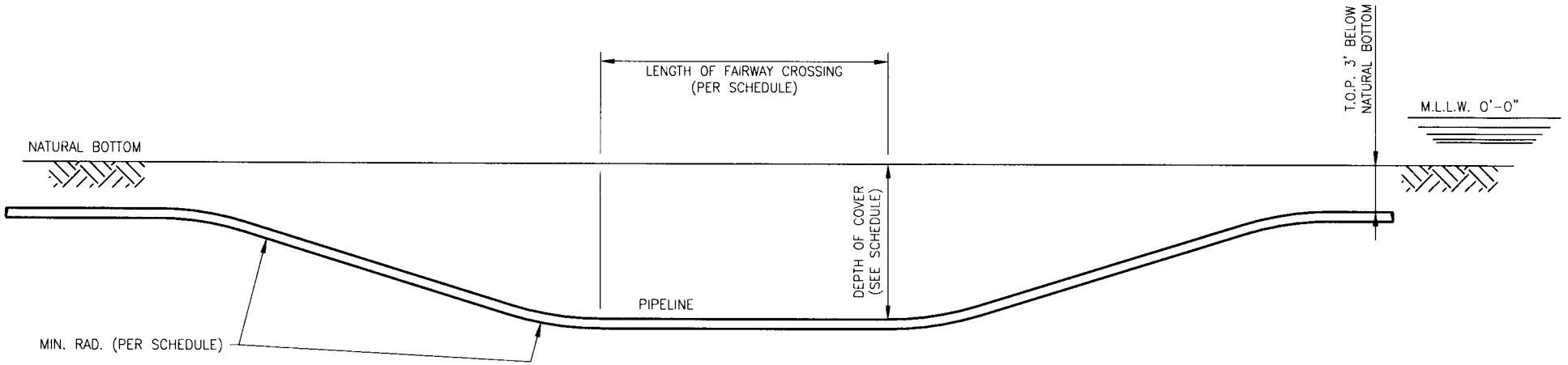

LEGEND
Main Pass (MP) Block 299
Main Pass (MP) Block 164
Interstate Highway
City
Water
State - Federal Boundary
MMS Lease Block
Mississippi
Alabama
Mobile
Coden
New Orleans
Lake Borgne
Louisiana
Breton Sound
Main Pass
Venice
Mississippi River
Gulf of Mexico
160
159
158
163
164
165
179
178
177
1 0 1 Miles
141
142
143
300
299
298
301
302
1 0 1 Miles
30 0 30 Miles
N
W
E
S

Figure 9.
Proximity to Safety Fairways and Anchorages
Main Pass Energy Hub ™



Dwg.No. 02290012 [Layout2]



PROFILE

FAIRWAY CROSSING SCHEDULE					
CROSSING	WATER DEPTH	PIPE DIAMETER	MINIMUM RADIUS	LENGTH	DEPTH OF COVER
SOUTHWEST PASS TO SOUTHPASS SAFETY FAIRWAY	>300'	20"	2,000'	14,679'	NOT REQUIRED
SOUTHPASS TO MISS. RIVER-GULF OUTLET SAFETY FAIRWAY	50'	12"	1,200'	14,357'	10'
MISS. RIVER-GULF OUTLET FAIRWAY	110'	36"	3,600'	13,691'	3'
PASCAGOULA FAIRWAY	100'	36"	3,600'	13,199'	3'
COASTWISE FAIRWAY	60'	36"	3,600'	11,952'	10'

NOT FOR CONSTRUCTION

FREEPORT-MCMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
E-mail: pcsinc@projectconsulting.com

SCALE: N.T.S.

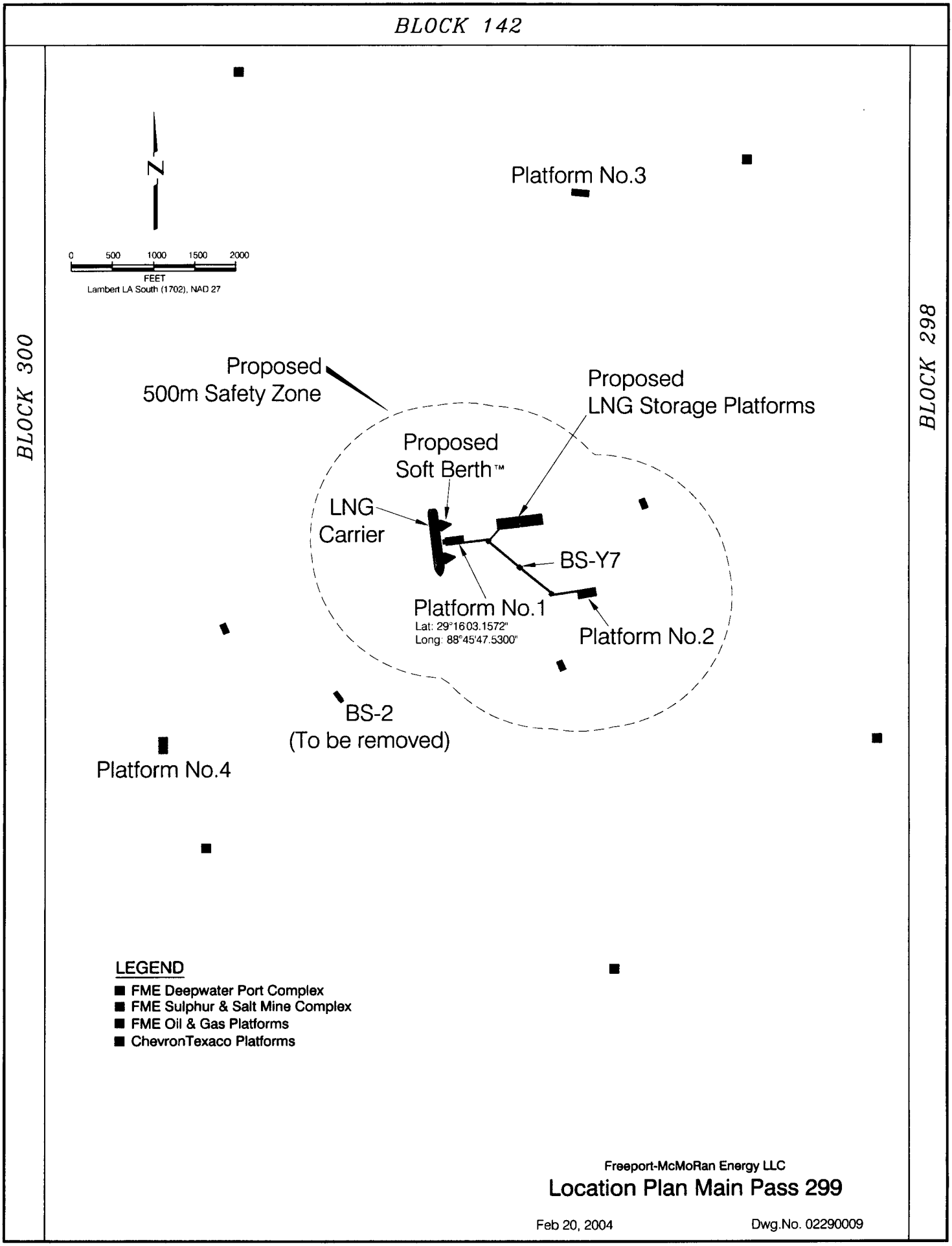
NO.	REVISION	DATE	APPR.
B	GENERAL REVISIONS	2-9-04	M.G.S.
A	PRELIMINARY	2-4-04	M.G.S.

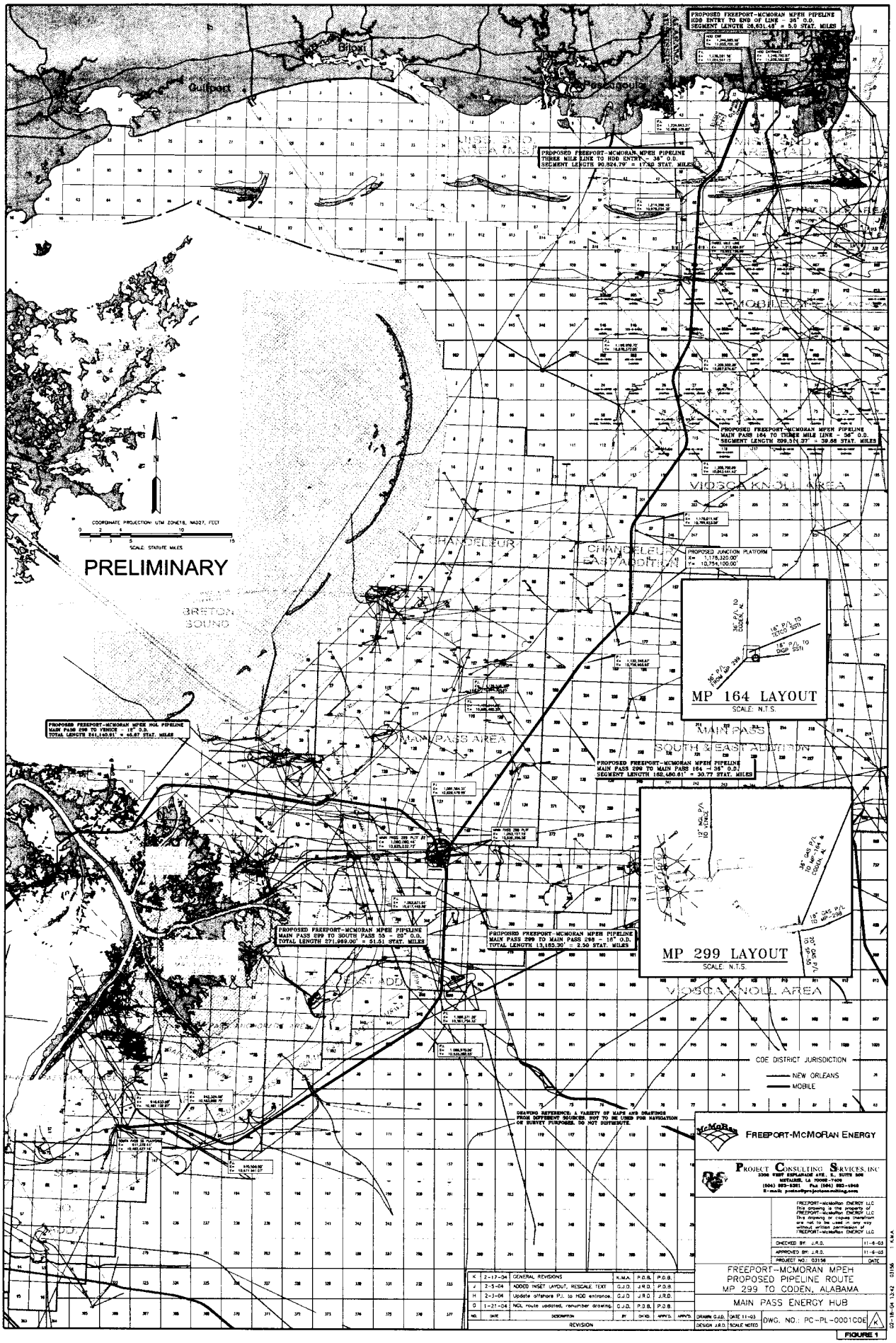
MAIN PASS ENERGY HUB
GULF OF MEXICO
TYPICAL FAIRWAY CROSSING

DRAWN BY: R.C.E. DATE: 1-29-04

PCS PROJ. NO. 03156 DRAWING NUMBER PC-G-0050

02-07-04 13:32 MCMORAN\03156 4 G.J.D.


BLOCK 142
BLOCK 300
BLOCK 298
N
0 500 1000 1500 2000
FEET
Lambert LA South (1702), NAD 27
Platform No.3
Proposed
500m Safety Zone
Proposed
LNG Storage Platforms
Proposed
Soft Berth™
LNG
Carrier
BS-Y7
Platform No.1
Lat: 29°16'03.1572"
Long: 88°45'47.5300"
Platform No.2
BS-2
(To be removed)
Platform No.4
LEGEND
FME Deepwater Port Complex
FME Sulphur & Salt Mine Complex
FME Oil & Gas Platforms
ChevronTexaco Platforms
Freeport-McMoRan Energy LLC
Location Plan Main Pass 299
Feb 20, 2004
Dwg.No. 02290009



NO.	DATE	DESCRIPTION	BY	CHKD.	APPV'D.	APPV'D.
K	2-17-04	GENERAL REVISIONS	K.M.A.	P.O.B.	P.O.B.	
J	2-5-04	ADDED INSET LAYOUT, RESCALE TEXT	G.J.D.	J.R.D.	P.O.B.	
H	2-3-04	Update offshore P.I. to HDD entrance.	G.J.D.	J.R.D.	J.R.D.	
G	1-21-04	NGL route updated, renumber drawing.	G.J.D.	P.O.B.	P.O.B.	

REVISION

FREEPORT-McMORAN ENERGY

PROJECT CONSULTING SERVICES, INC
3306 WEST EXPLANADE AVE., S. SUITE 500
METAIRIE, LA 70002-7409
(504) 885-8281 Fax (504) 883-4948
E-mail: pcsinc@projectconsulting.com

FREEPORT-McMoRan ENERGY LLC
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CHECKED BY: J.R.D.	11-6-03	
APPROVED BY: J.R.D.	11-6-03	
PROJECT NO.: 03156	DATE	

FREEPORT-MCMORAN MPEH
PROPOSED PIPELINE ROUTE
MP 299 TO CODEN, ALABAMA

MAIN PASS ENERGY HUB

DRAWN G.J.D. | DATE 11-03 | DWG. NO.: PC-PL-0001CDE | K
DESIGN J.R.D. | SCALE NOTED

FIGURE 1

02-18-04 13:42 03156 K.M.A.

COORDINATE PROJECTION: UTM ZONE16, NAD27, FEET

SCALE: STATUTE MILES

PRELIMINARY

BRETON SOUND

CHANDELEUR

CHANDELEUR EAST ADDITION

PROPOSED JUNCTION PLATFORM
X= 1,176,320.00'
Y= 10,754,100.00'

MAIN PASS AREA

MAIN PASS SOUTH & EAST ADDITION

EAST ADD.

VIOSCA KNOLL AREA

SOUTH PASS

SO. ADD.

PROPOSED FREEPORT-MCMORAN MPEH NGL PIPELINE
MAIN PASS 299 TO VENICE - 12" O.D.
TOTAL LENGTH 841,140.31' = 45.67 STAT. MILES

PROPOSED FREEPORT-MCMORAN MPEH PIPELINE
MAIN PASS 299 TO MAIN PASS 154 - 36" O.D.
SEGMENT LENGTH 162,480.61' = 30.77 STAT. MILES

PROPOSED FREEPORT-MCMORAN MPEH PIPELINE
MAIN PASS 299 TO SOUTH PASS 56 - 20" O.D.
TOTAL LENGTH 271,969.00' = 51.51 STAT. MILES

PROPOSED FREEPORT-MCMORAN MPEH PIPELINE
MAIN PASS 299 TO MAIN PASS 298 - 16" O.D.
TOTAL LENGTH 13,185.30' = 2.50 STAT. MILES

MP 164 LAYOUT

SCALE: N.T.S.

36" P/L TO CODEN, AL
16" P/L TO TETCO SST1
16" P/L TO DGP SST1
36" P/L FROM MP 299

MP 299 LAYOUT

SCALE: N.T.S.

12" NGL P/L TO VENICE
36" GAS P/L TO MP-164 & CODEN, AL
16" GAS P/L TO MP-298
20" GAS P/L TO SP-55

COE DISTRICT JURISDICTION
NEW ORLEANS
MOBILE

DRAWING REFERENCE: A VARIETY OF MAPS AND DRAWINGS FROM DIFFERENT SOURCES. NOT TO BE USED FOR NAVIGATION OR SURVEY PURPOSES. DO NOT DISTRIBUTE.

FREEPORT-McMoRan ENERGY

PROJECT CONSULTING SERVICES, INC.
3600 THE ESPLANADE AVE., S. SUITE 200
METAIRIE, LA 70002-1408
(504) 885-8881 fax (504) 885-8844
E-mail: pcsinc@projectconsulting.com

FREEPORT-McMoRan ENERGY LLC
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CHECKED BY:
APPROVED BY: P.J.B
PROJECT NO.: DATE

FREEPORT-MCMORAN MPEH
PROPOSED PIPELINE ROUTE
MP TO CODEN ALABAMA

NEW ORLEANS COE DISTRICT JURISDICTION

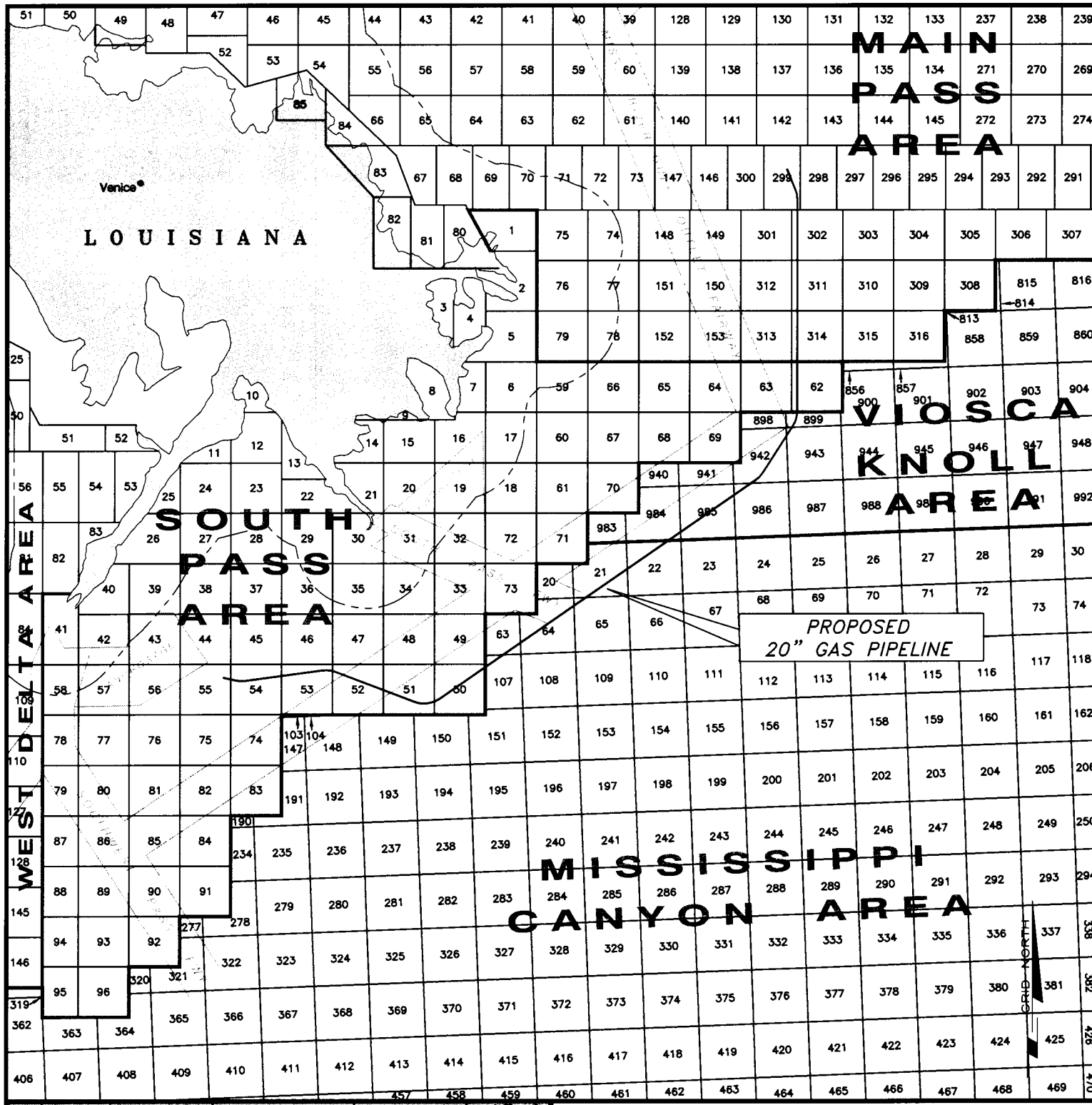
REV.	DATE	DESCRIPTION	BY	CHKD.	APPV'D.	APPV'D.
K	2-17-04	GENERAL REVISIONS	K.M.A.	P.D.B.	P.D.B.	
J	2-5-04	ADDED INSET LAYOUT, RESCALE TEXT	O.J.D.	J.R.D.	P.D.B.	
H	2-3-04	Update offshore P.I. to MPE entrance.	O.J.D.	J.R.D.	J.R.D.	
G	1-21-04	NGL route updated, remunber drawing.	O.J.D.	[illegible]	P.D.B.	

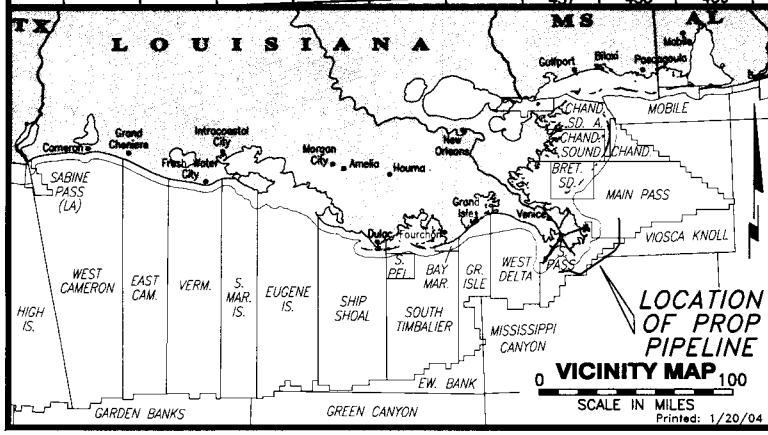
REVISION

DRAWN K.M.A. DATE 6-12-03 DWG. NO.: PC-PL-0001-COE-B K

DESIGN P.J.B. SCALE NONE

SHEET 1 OF 1





McMoRan

FREEPORT-MCMORAN ENERGY LLC

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

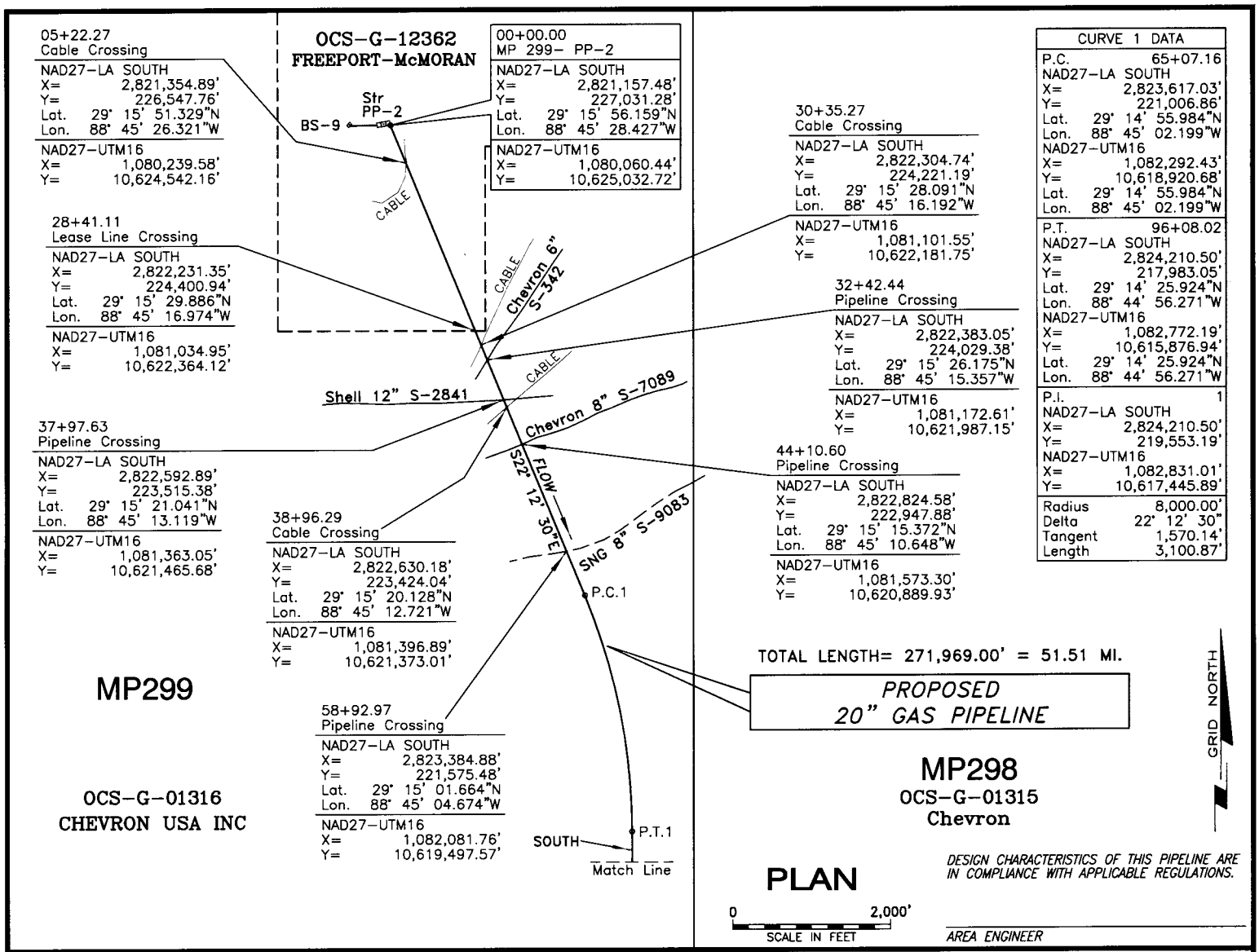
PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC. FUGRO

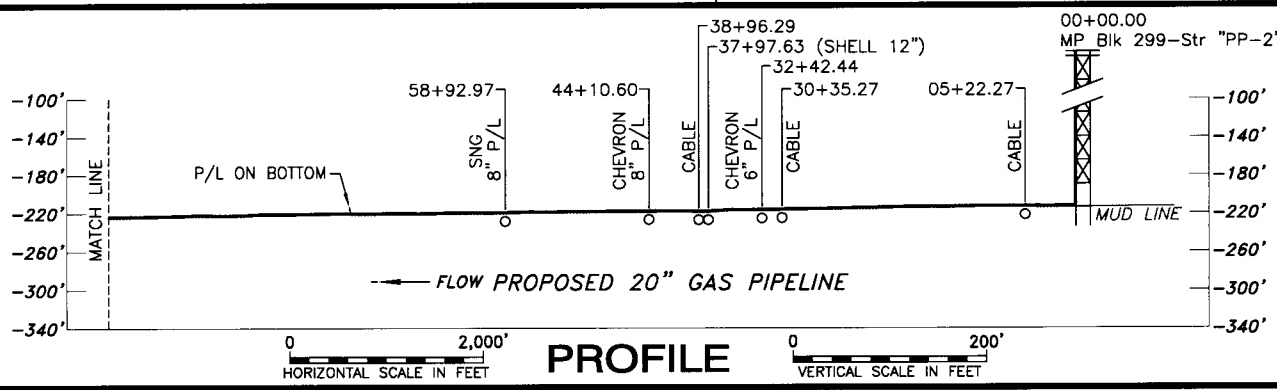
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 — 40,000'	
Job No.: 04-0277	Date: 1/21/04	Drwn: MGK	Chart: 1 Of: 28
Dwgfile: H:\2003\033758\CAD\Marine\3758COVR			



CURVE 1 DATA	
P.C.	65+07.16
NAD27-LA SOUTH	
X=	2,823,617.03'
Y=	221,006.86'
Lat.	29° 14' 55.984"N
Lon.	88° 45' 02.199"W
NAD27-UTM16	
X=	1,082,292.43'
Y=	10,618,920.68'
Lat.	29° 14' 55.984"N
Lon.	88° 45' 02.199"W
P.T.	96+08.02
NAD27-LA SOUTH	
X=	2,824,210.50'
Y=	217,983.05'
Lat.	29° 14' 25.924"N
Lon.	88° 44' 56.271"W
NAD27-UTM16	
X=	1,082,772.19'
Y=	10,615,876.94'
Lat.	29° 14' 25.924"N
Lon.	88° 44' 56.271"W
P.I.	1
NAD27-LA SOUTH	
X=	2,824,210.50'
Y=	219,553.19'
NAD27-UTM16	
X=	1,082,831.01'
Y=	10,617,445.89'
Radius	8,000.00'
Delta	22° 12' 30"
Tangent	1,570.14'
Length	3,100.87'

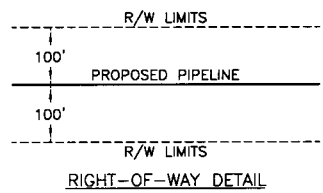
DESIGN CHARACTERISTICS OF THIS PIPELINE ARE IN COMPLIANCE WITH APPLICABLE REGULATIONS.



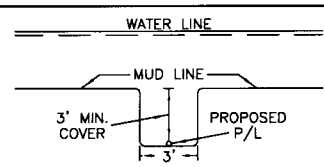
THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT-OF-WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 1/20/04

FREEPORT-McMORAN ENERGY LLC

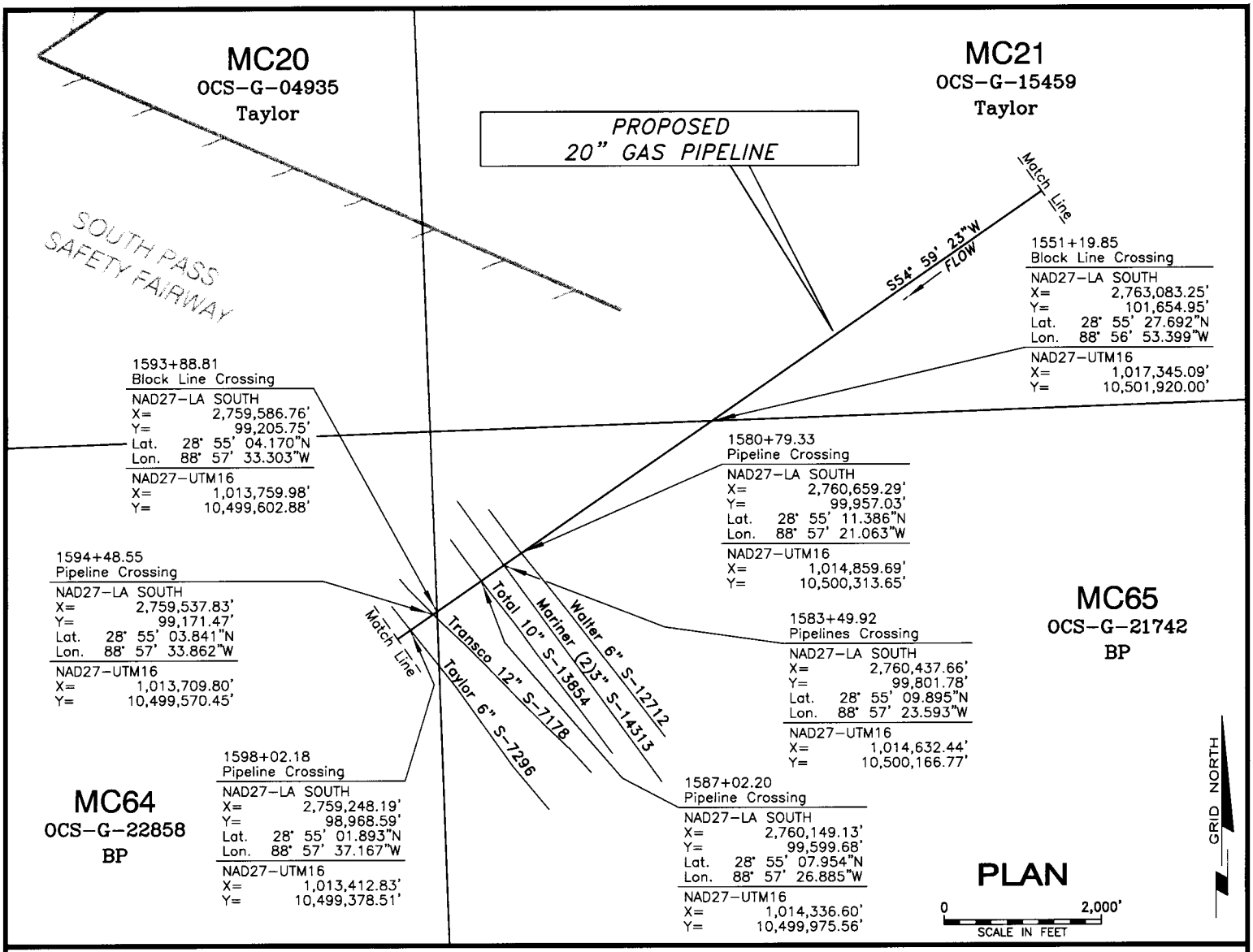
FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

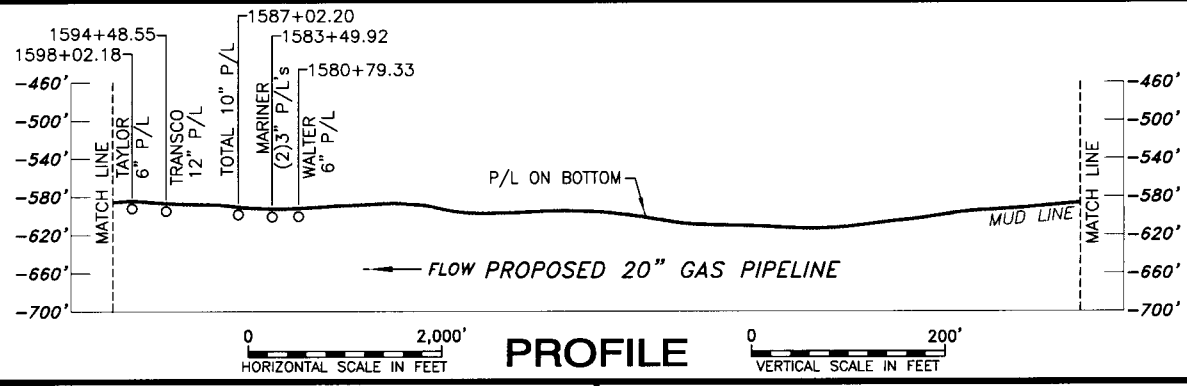
PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 2 Of: 28
Dwgfile: H:\2003\033758\CAD\Marine\033758pp			





FREEPORT-McMORAN ENERGY LLC

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 17 Of: 28
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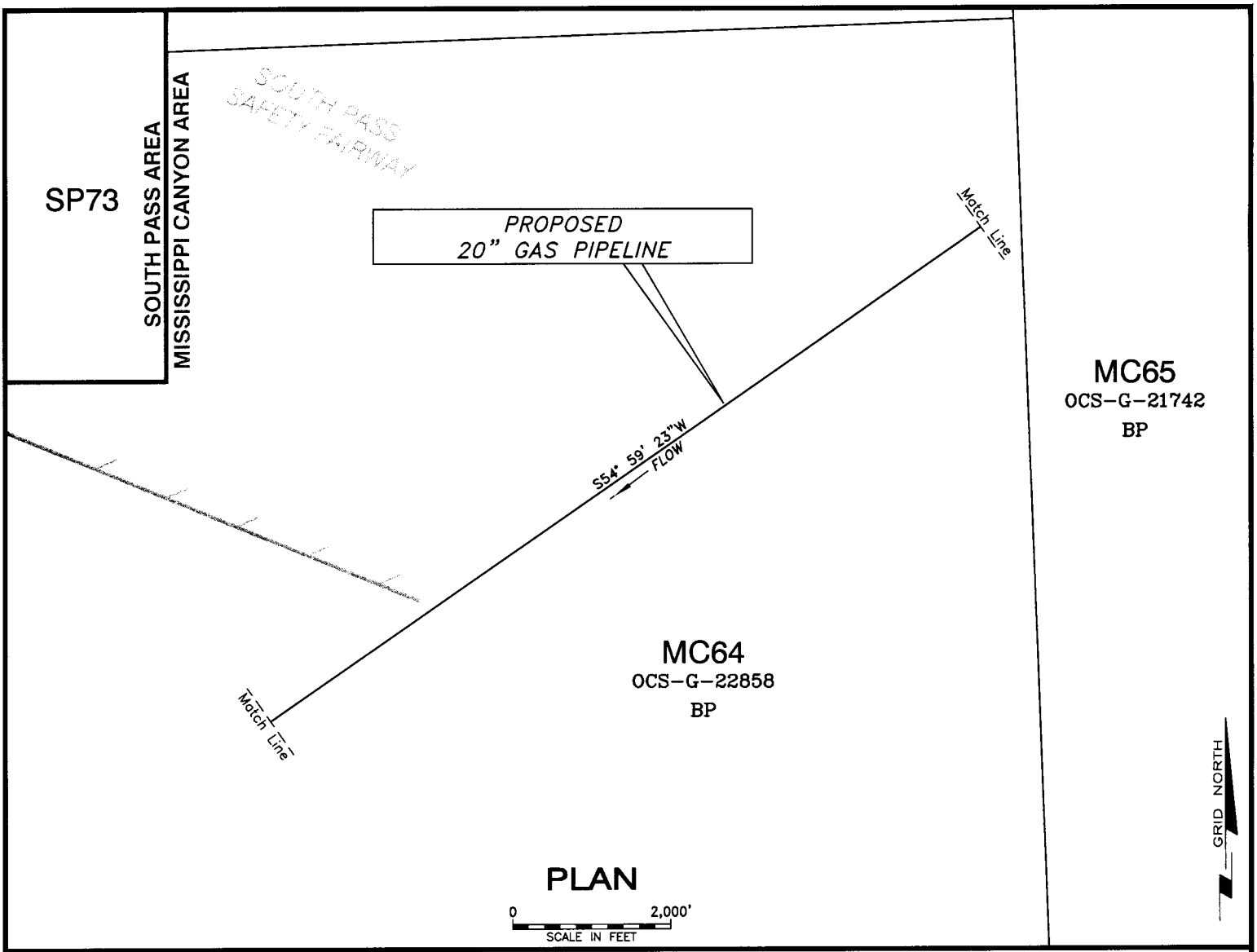

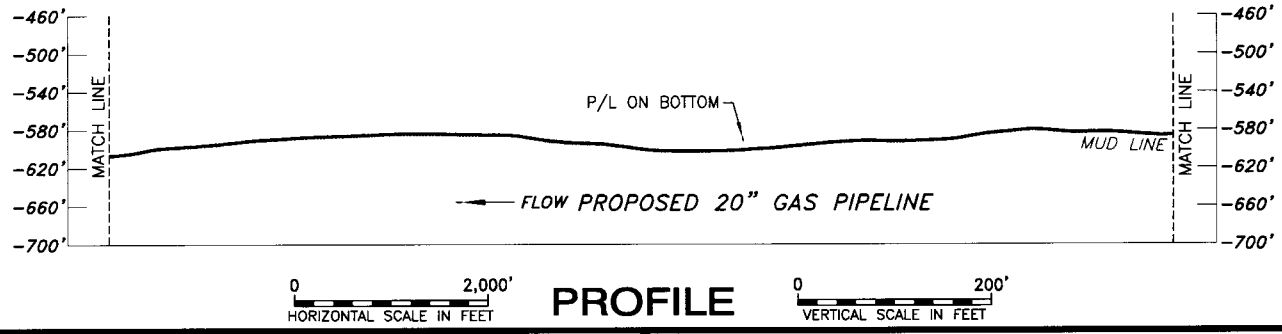

FREEPORT-MCMORAN ENERGY LLC

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 18 Of: 28
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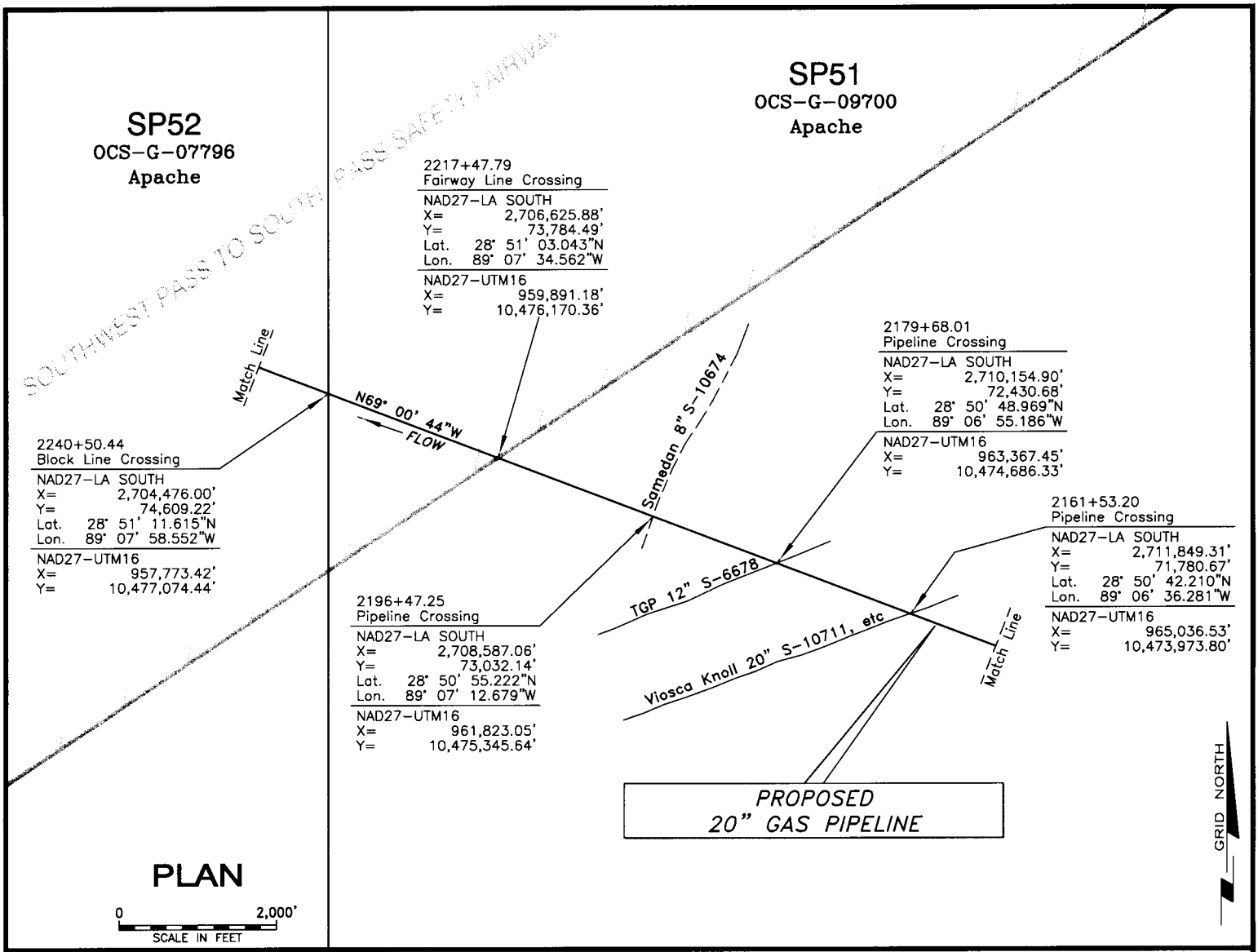

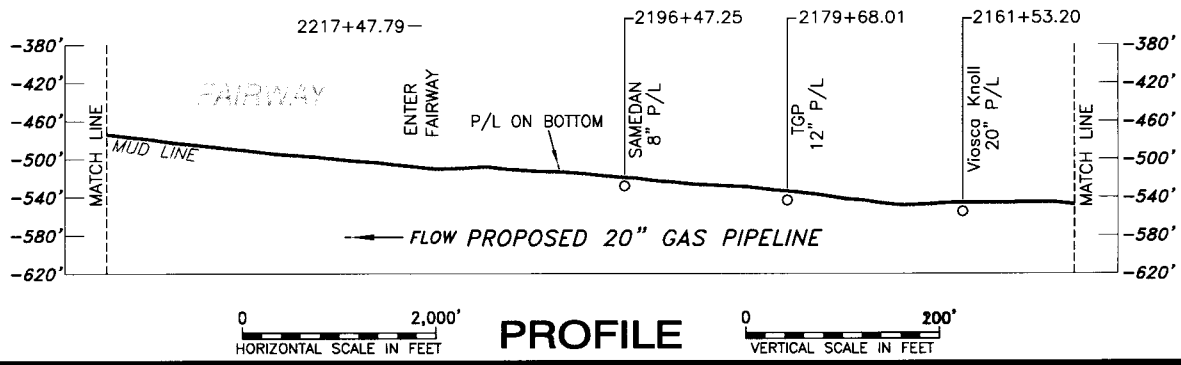

FREEPORT-McMORAN ENERGY LLC

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1500

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 23 Of: 28
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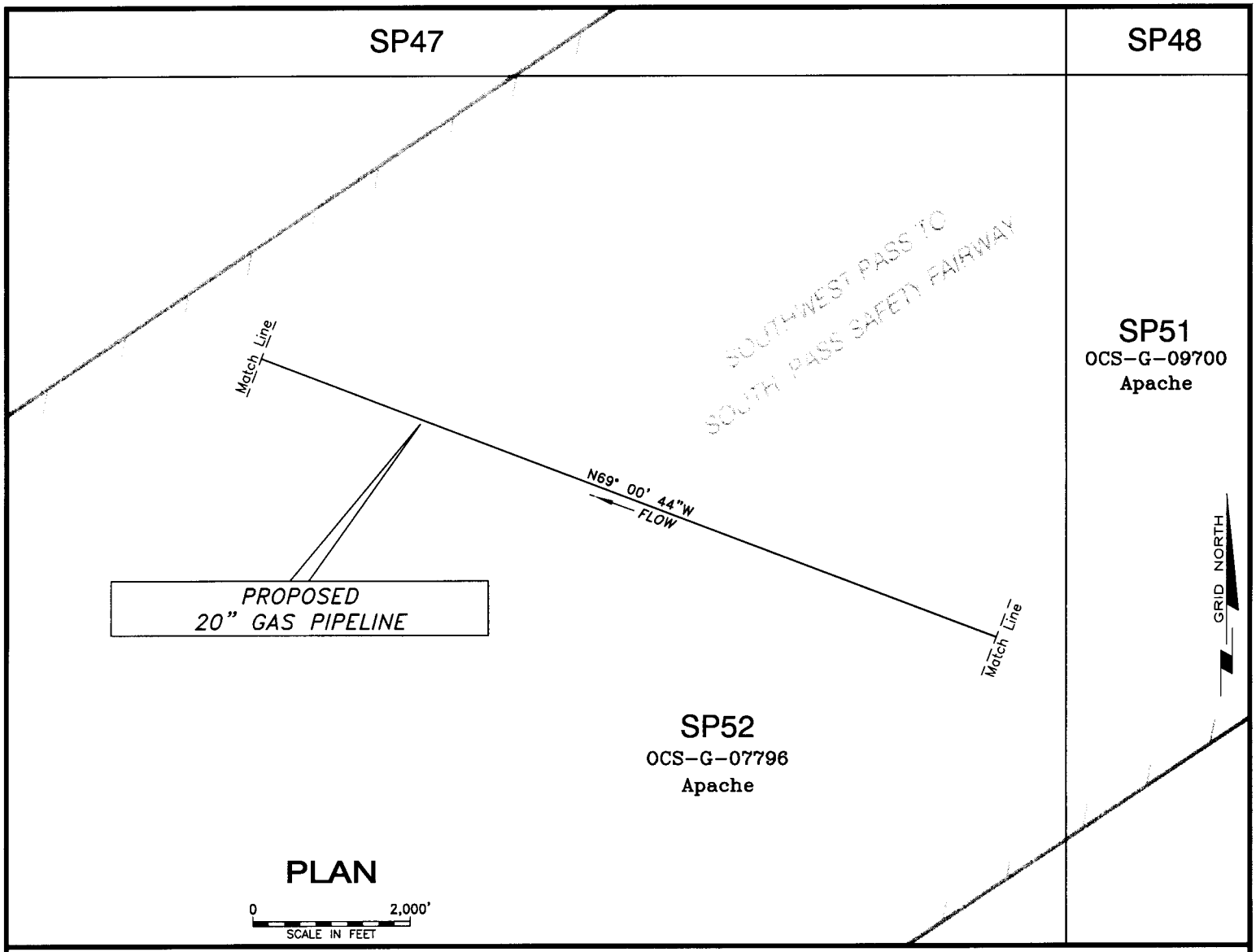
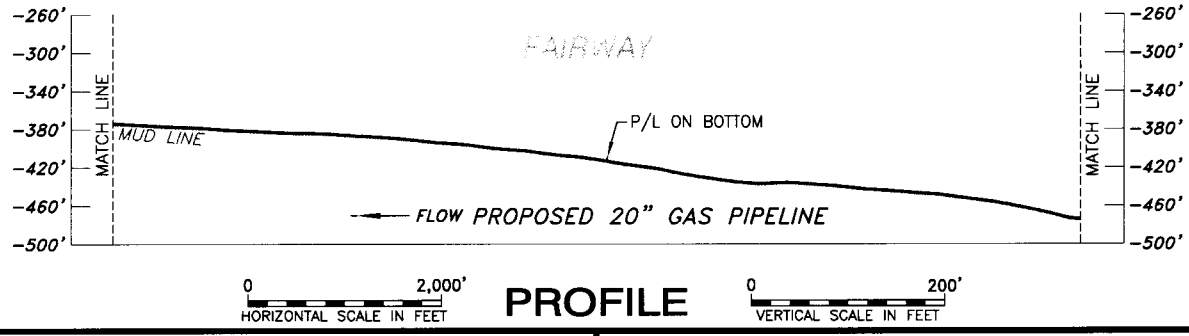




FREEPORT-MCMORAN ENERGY LLC

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

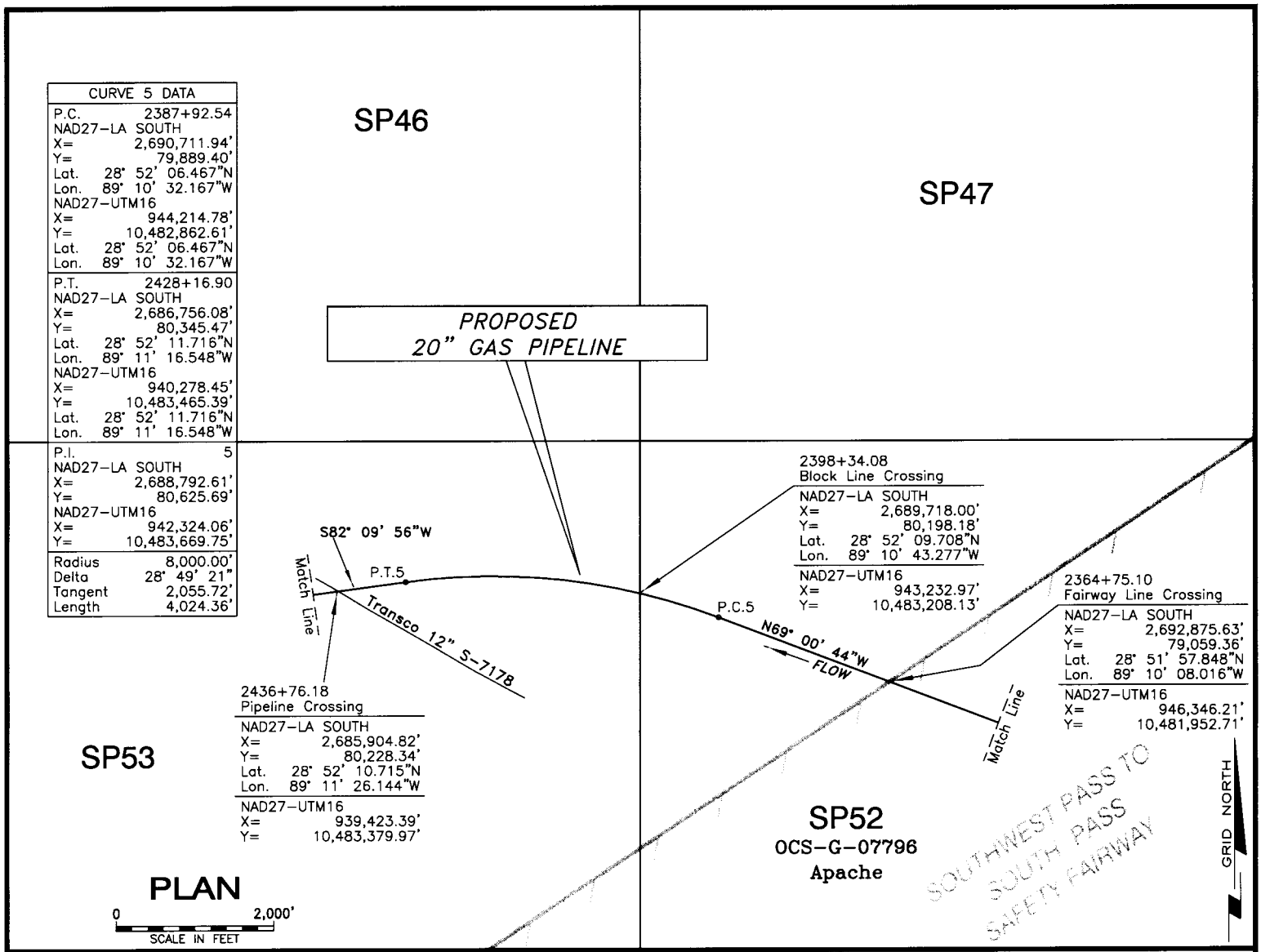
PROPOSED 20" GAS PIPELINE

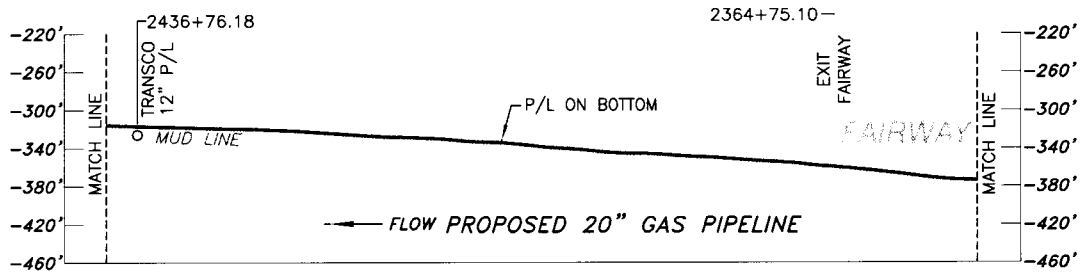
MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 24 Of: 28
Dwgfile: H:\2003\033758\CAD\Marine\033758pp			

CURVE 5 DATA	
P.C.	2387+92.54
NAD27-LA SOUTH	
X=	2,690,711.94'
Y=	79,889.40'
Lat.	28° 52' 06.467"N
Lon.	89° 10' 32.167"W
NAD27-UTM16	
X=	944,214.78'
Y=	10,482,862.61'
Lat.	28° 52' 06.467"N
Lon.	89° 10' 32.167"W
P.T.	2428+16.90
NAD27-LA SOUTH	
X=	2,686,756.08'
Y=	80,345.47'
Lat.	28° 52' 11.716"N
Lon.	89° 11' 16.548"W
NAD27-UTM16	
X=	940,278.45'
Y=	10,483,465.39'
Lat.	28° 52' 11.716"N
Lon.	89° 11' 16.548"W
P.I.	5
NAD27-LA SOUTH	
X=	2,688,792.61'
Y=	80,625.69'
NAD27-UTM16	
X=	942,324.06'
Y=	10,483,669.75'
Radius	8,000.00'
Delta	28° 49' 21"
Tangent	2,055.72'
Length	4,024.36'





FREEPORT-MCMORAN ENERGY LLC

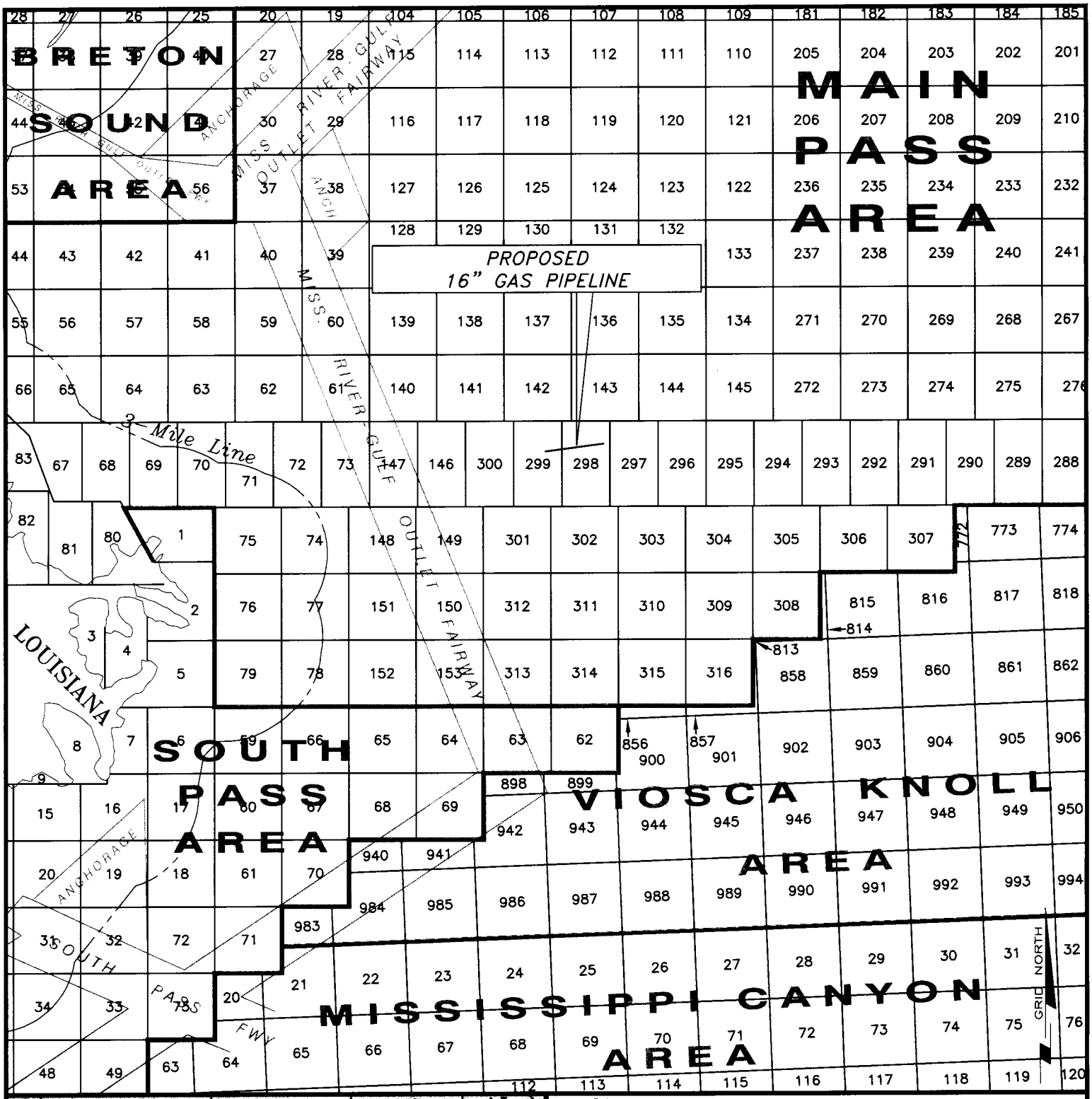
FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

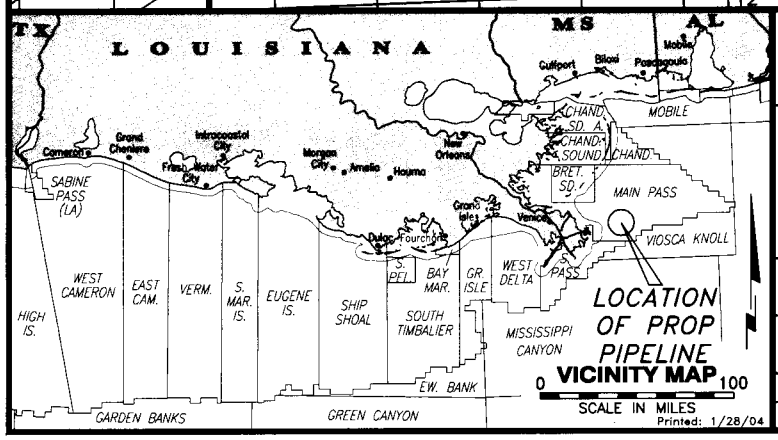
PROPOSED 20" GAS PIPELINE

MAIN PASS BLK 299-STR PP-2 TO
SOUTH PASS BLK 55-STR "A"
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-3758	Date: 1/21/04	Drwn: MGK	Chart: 25 Of: 28
Dwgfile: H:\2003\033758\CAD\Marine\033758pp			





McMoRan

FREEPORT-MCMORAN ENERGY LLC

PROPOSED 16" GAS PIPELINE

BLK 299-STR "PP-2" TO BLK 298-STR
MAIN PASS AREA
GULF OF MEXICO

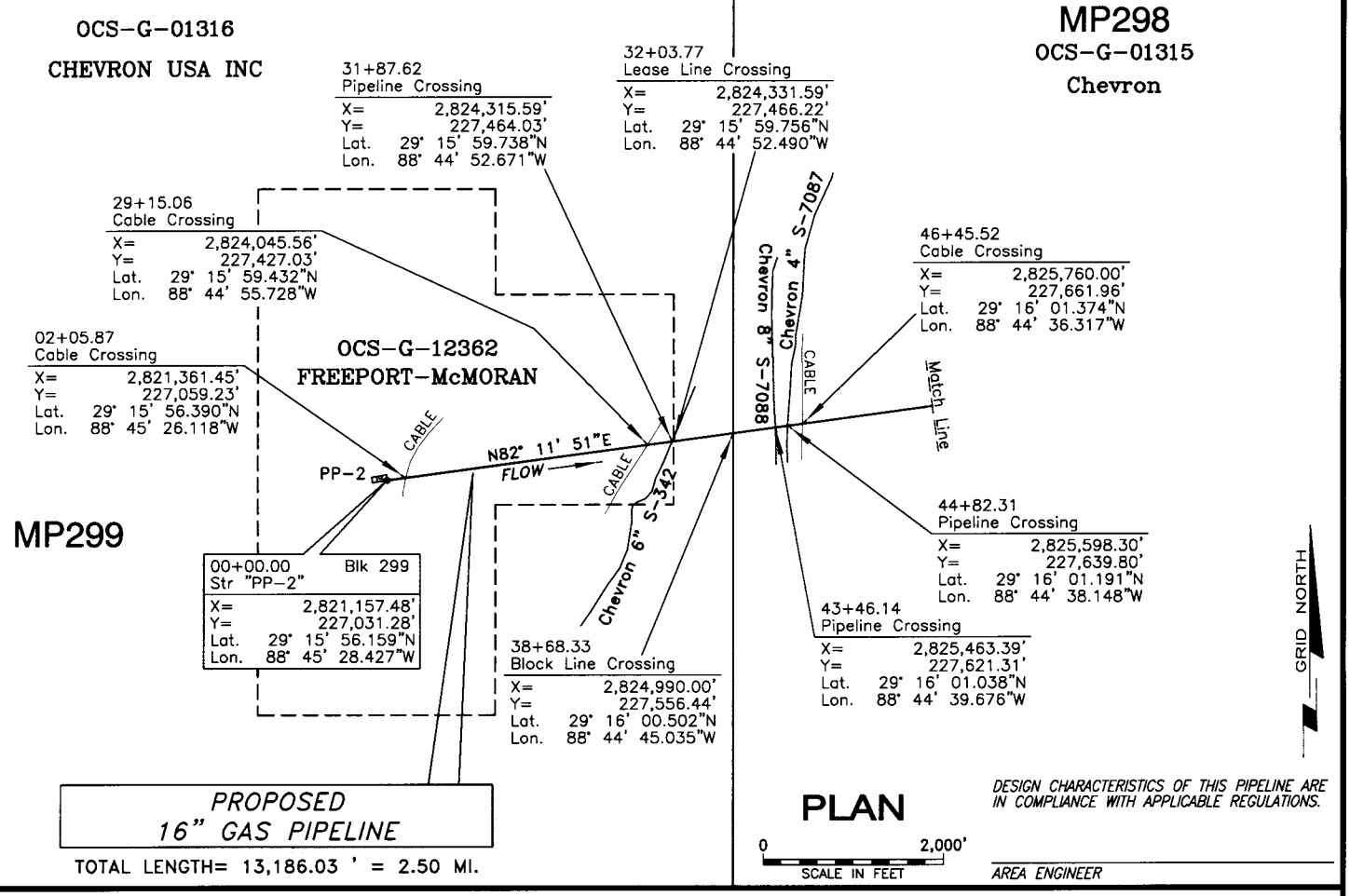
FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

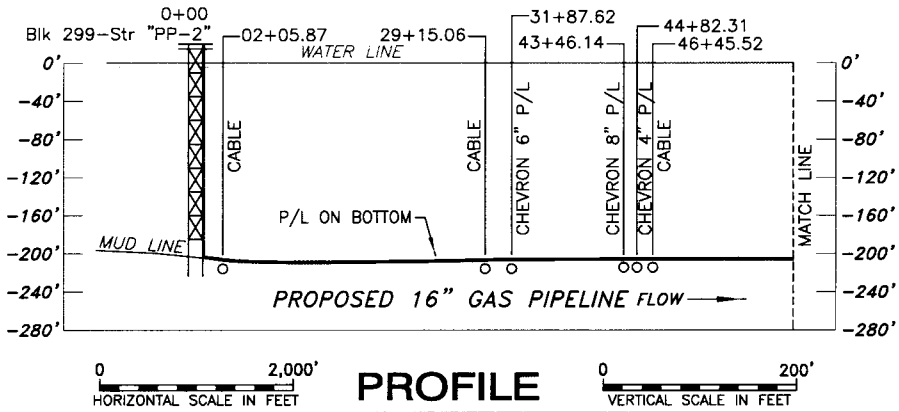
GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 30,000'

Job No.: 04-0307	Date: 1/28/04	Drwn: MGK	Chart: 1 Of: 2

Dwgfile: H:\2004\040307\CAD\Marine\0307covrPipe1



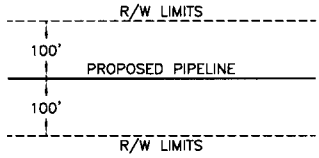


THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

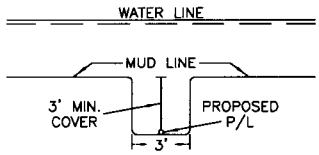
STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

Lionel J. Cormier

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT-OF-WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 1/28/04

FREEPORT-MCMORAN ENERGY LLC

PROPOSED 16" GAS PIPELINE

BLK 299-STR "PP-2" TO BLK 298-STR "B"
MAIN PASS AREA
GULF OF MEXICO

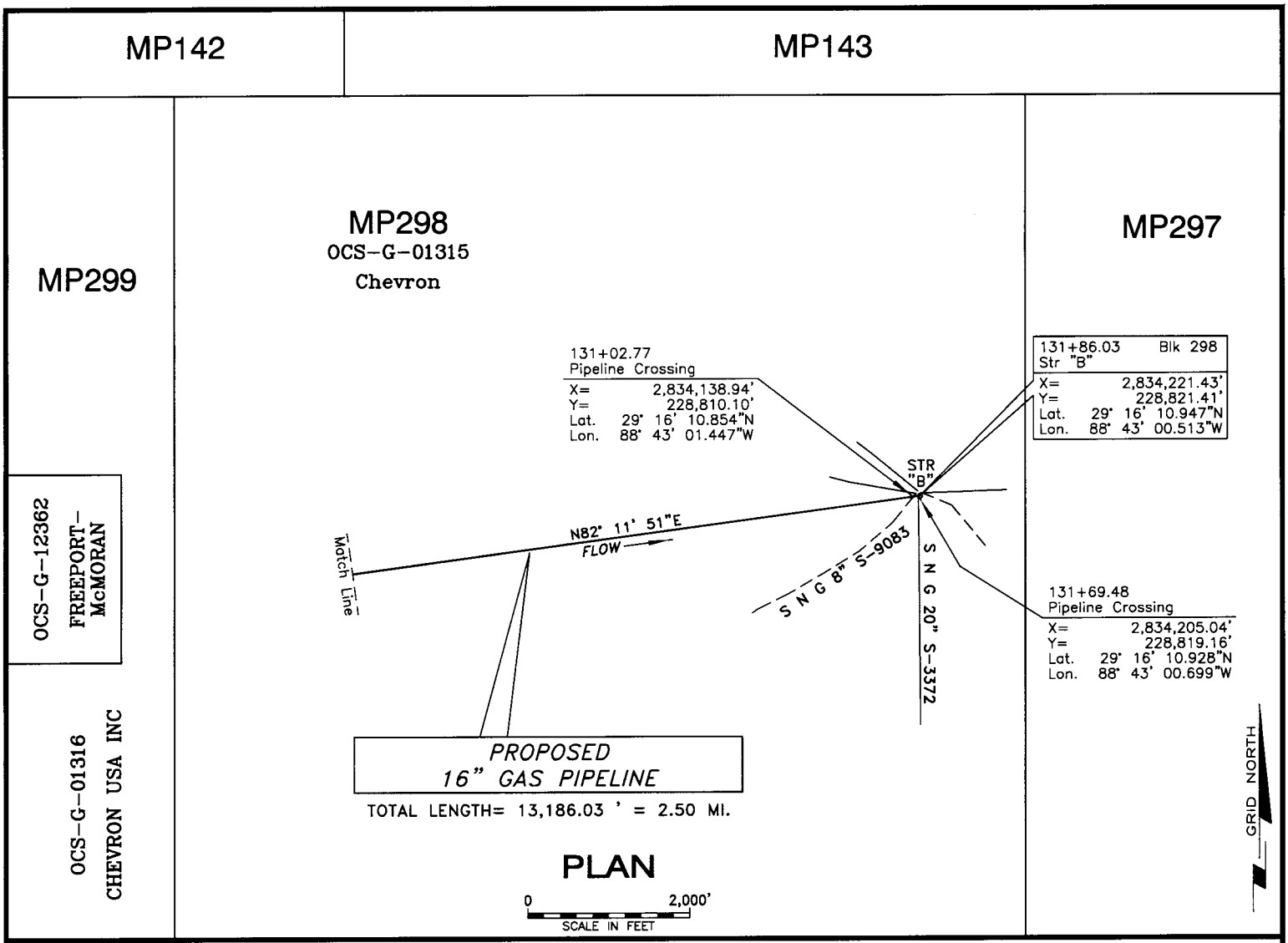
FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

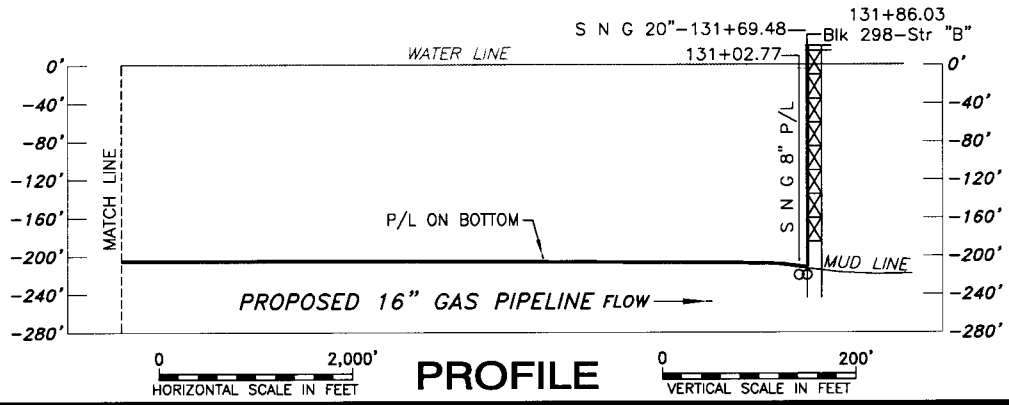
GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 2,000'

Job No.: 04-0307	Date: 1/28/04	Drwn: MGK	Chart: 2 Of: 3

Dwgfile: H:\2004\040307\CAD\Marine\040307pp_Pipe1





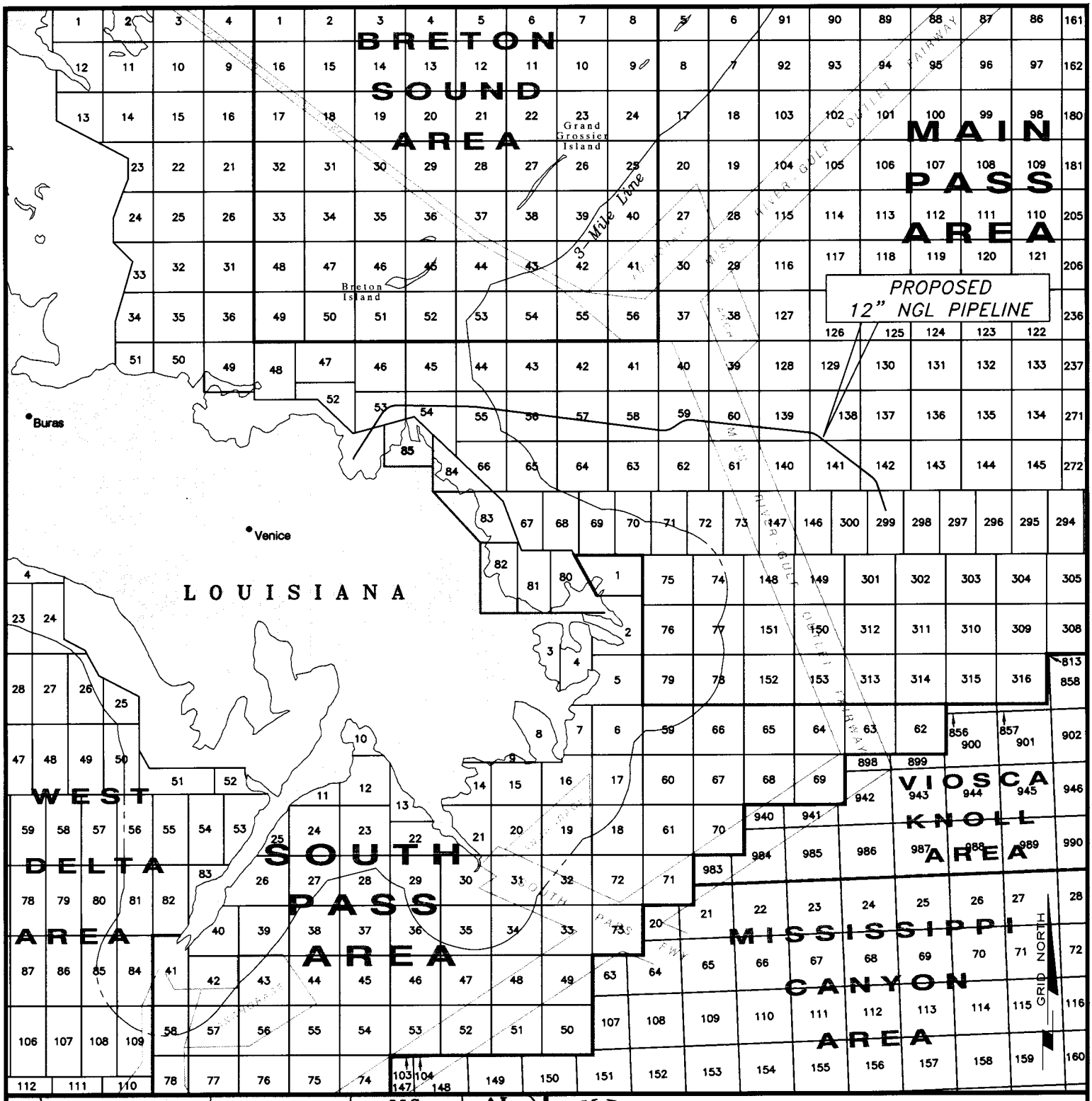
FREEPORT-MCMORAN ENERGY LLC

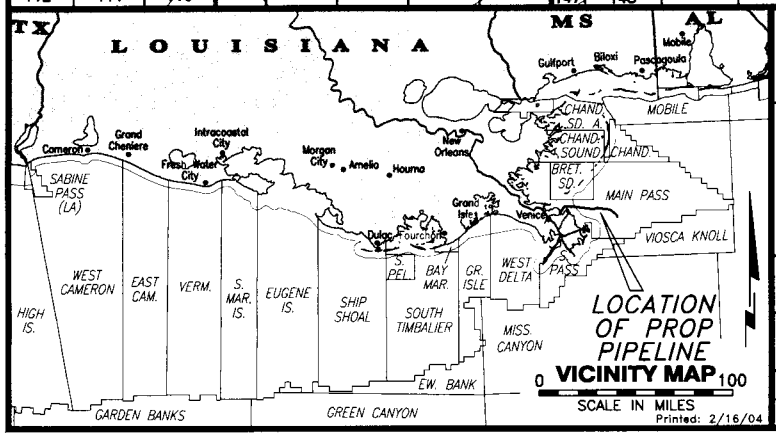
PROPOSED
16" GAS PIPELINE
BLK 299-STR "PP-2" TO BLK 298-STR "B"
MAIN PASS AREA
GULF OF MEXICO

FUGRO CHANCE INC.
200 Duiles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 04-0307	Date: 1/28/04	Drwn: MGK	Chart: 3 Of: 3
Dwgfile: H:\2004\040307\CAD\Marine\040307pp_Pipe1			

Printed: 1/28/04





FREEPORT-McMORAN ENERGY LLC

MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 12" NGL PIPELINE ROUTE

MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC.

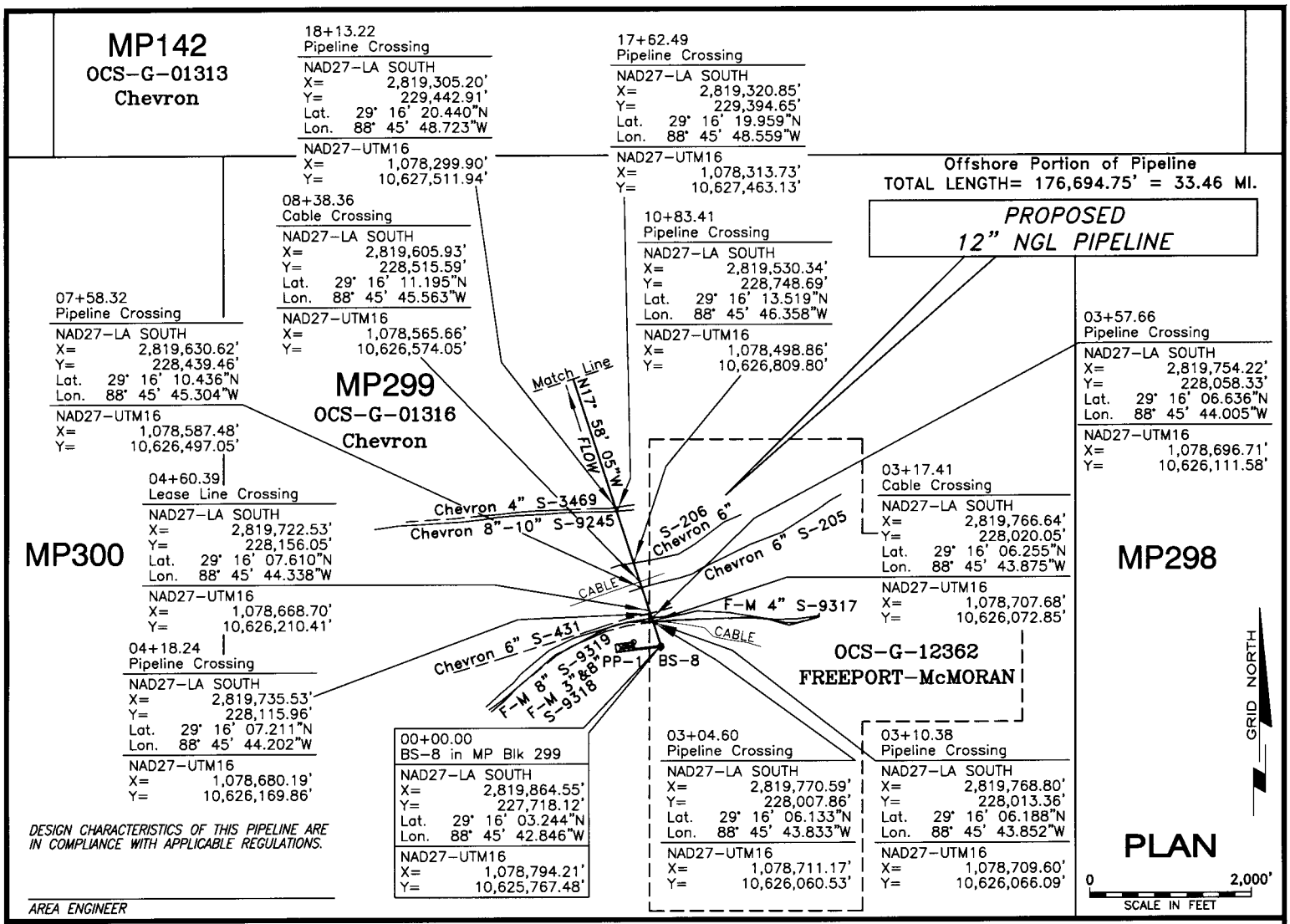
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

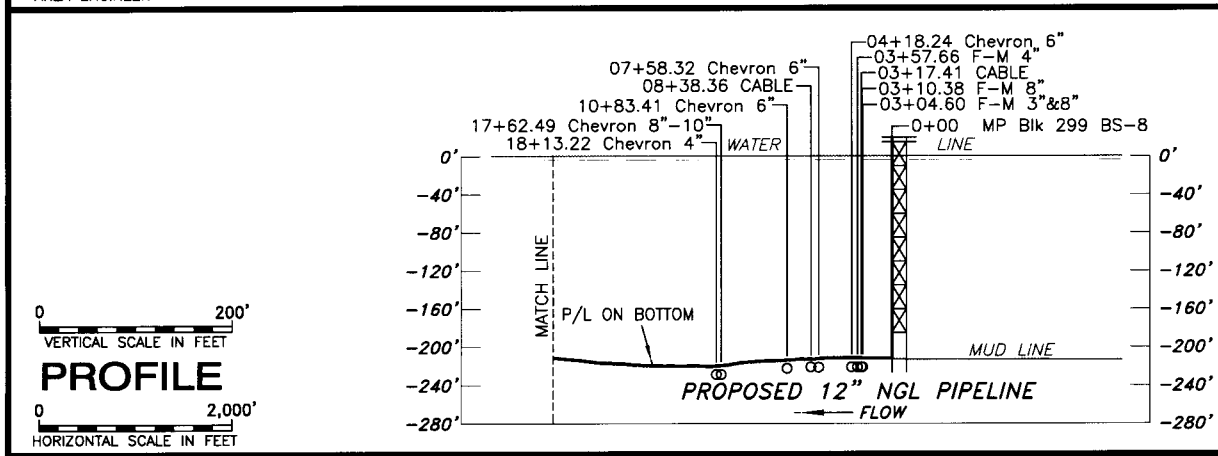
GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 40,000'

Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 1 Of: 21

Dwgfile: H:\2003\034123\CAD\Marine\4123COVR



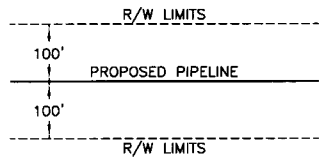


THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

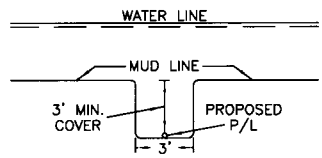
STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

Lionel J. Cormier

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT-OF-WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 2/13/04

FREEPORT-McMORAN ENERGY LLC
MAIN PASS ENERGY HUB

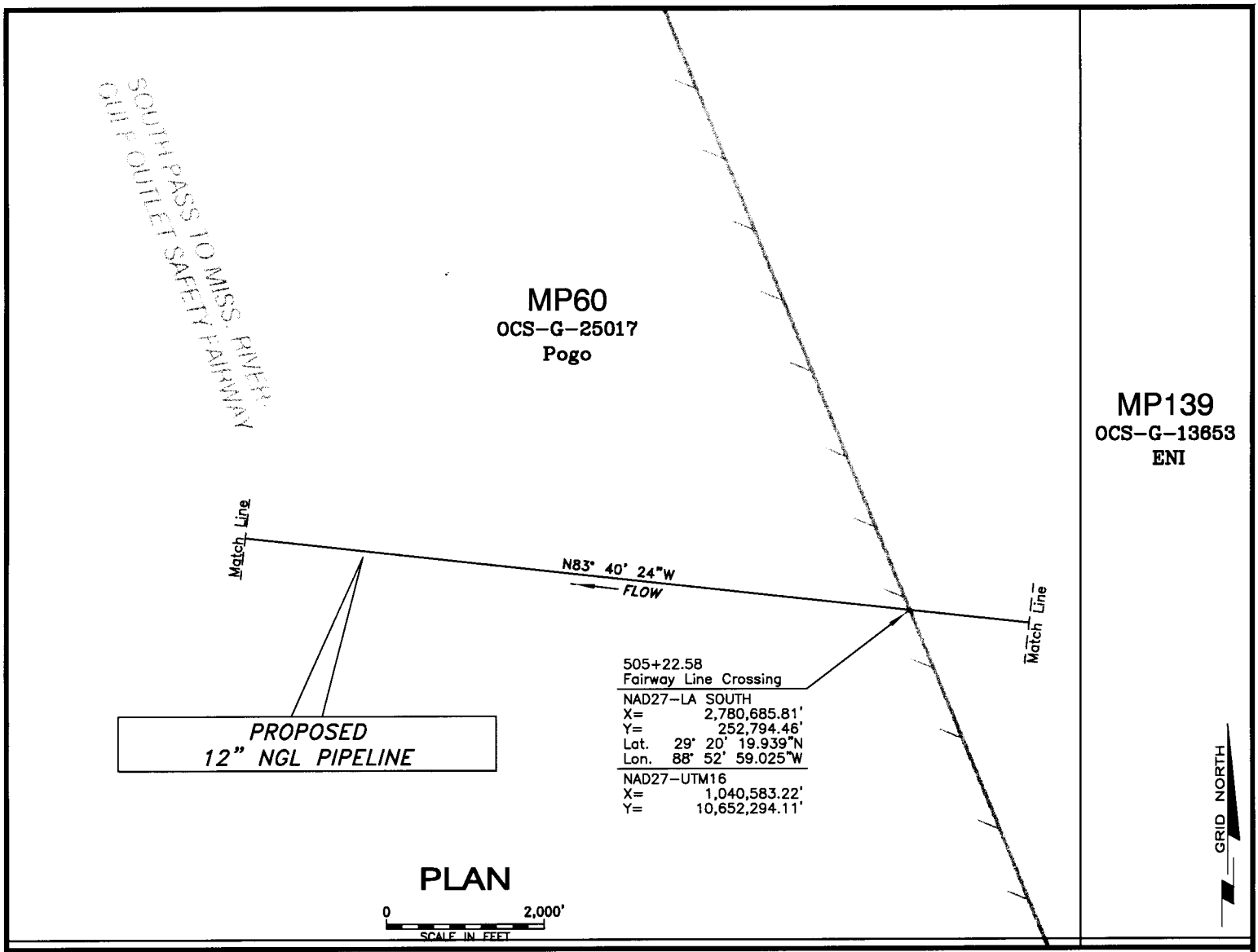
FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

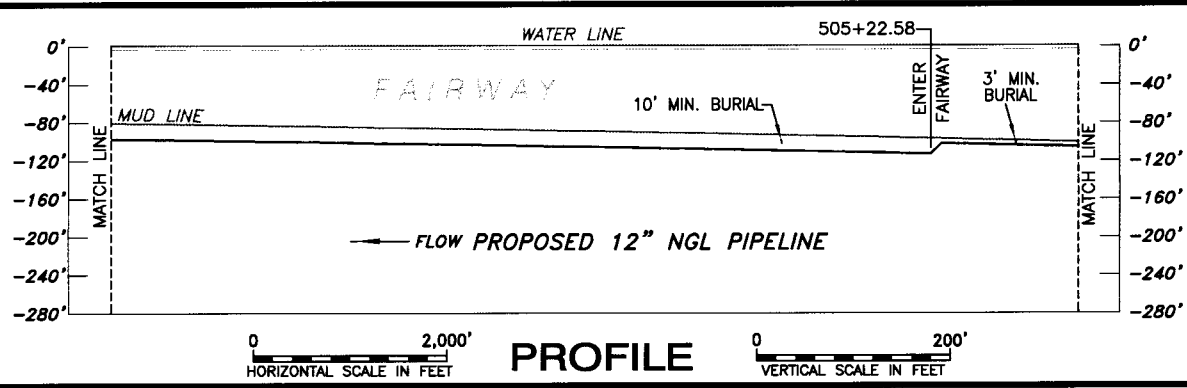
PROPOSED 12" NGL PIPELINE ROUTE

MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 2 Of: 21
Dwgfile: H:\2003\034123\CAD\Marine\034123PP			





FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 12" NGL PIPELINE ROUTE

MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 8 Of: 21
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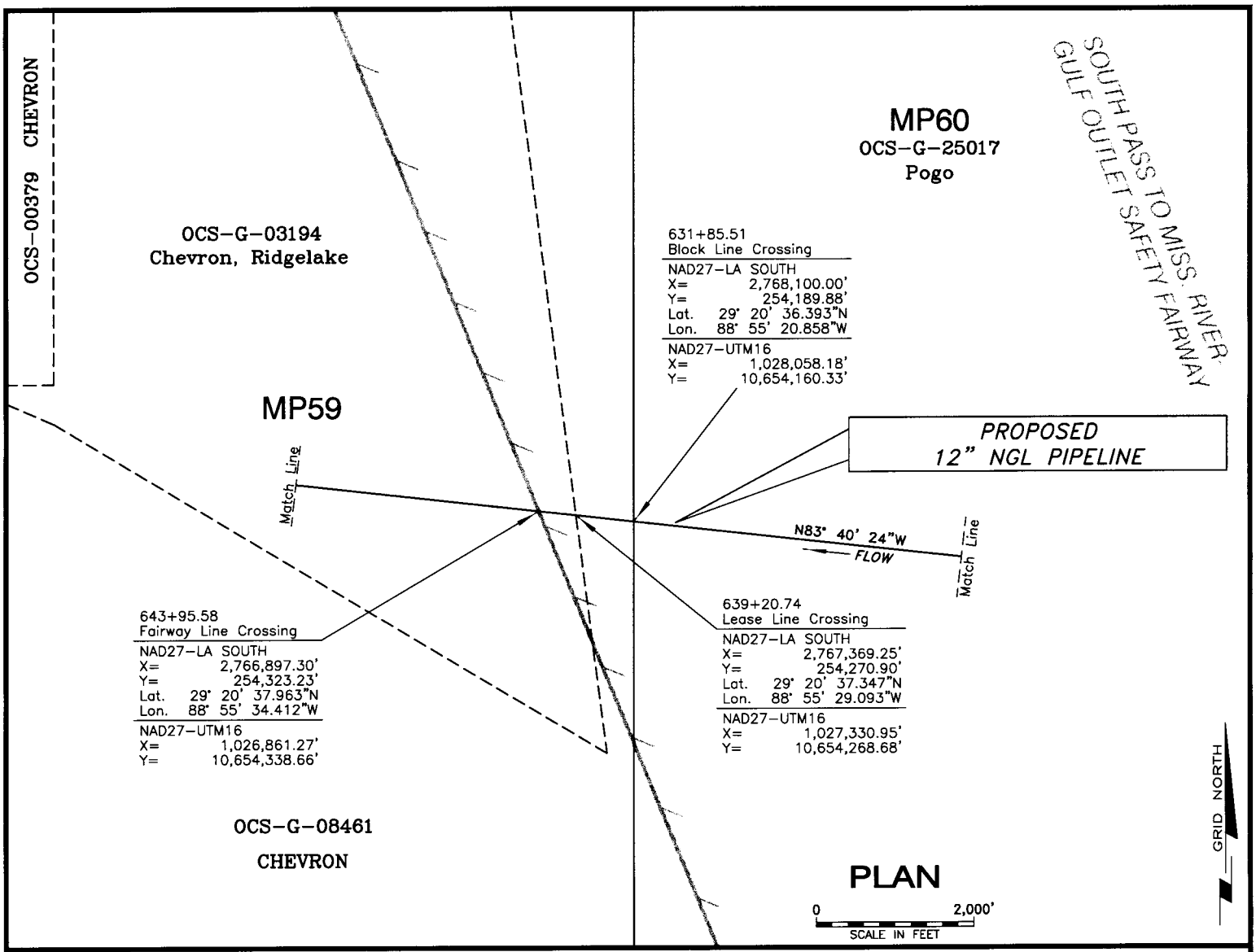

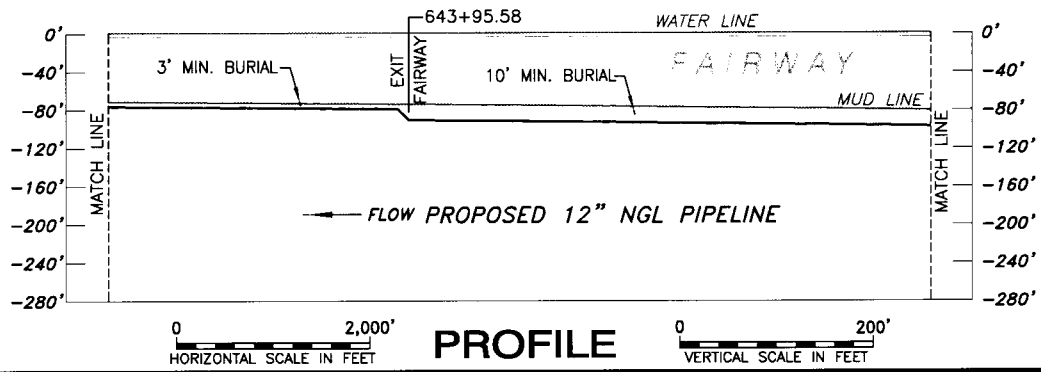

FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 12" NGL PIPELINE ROUTE

MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 9 Of: 21
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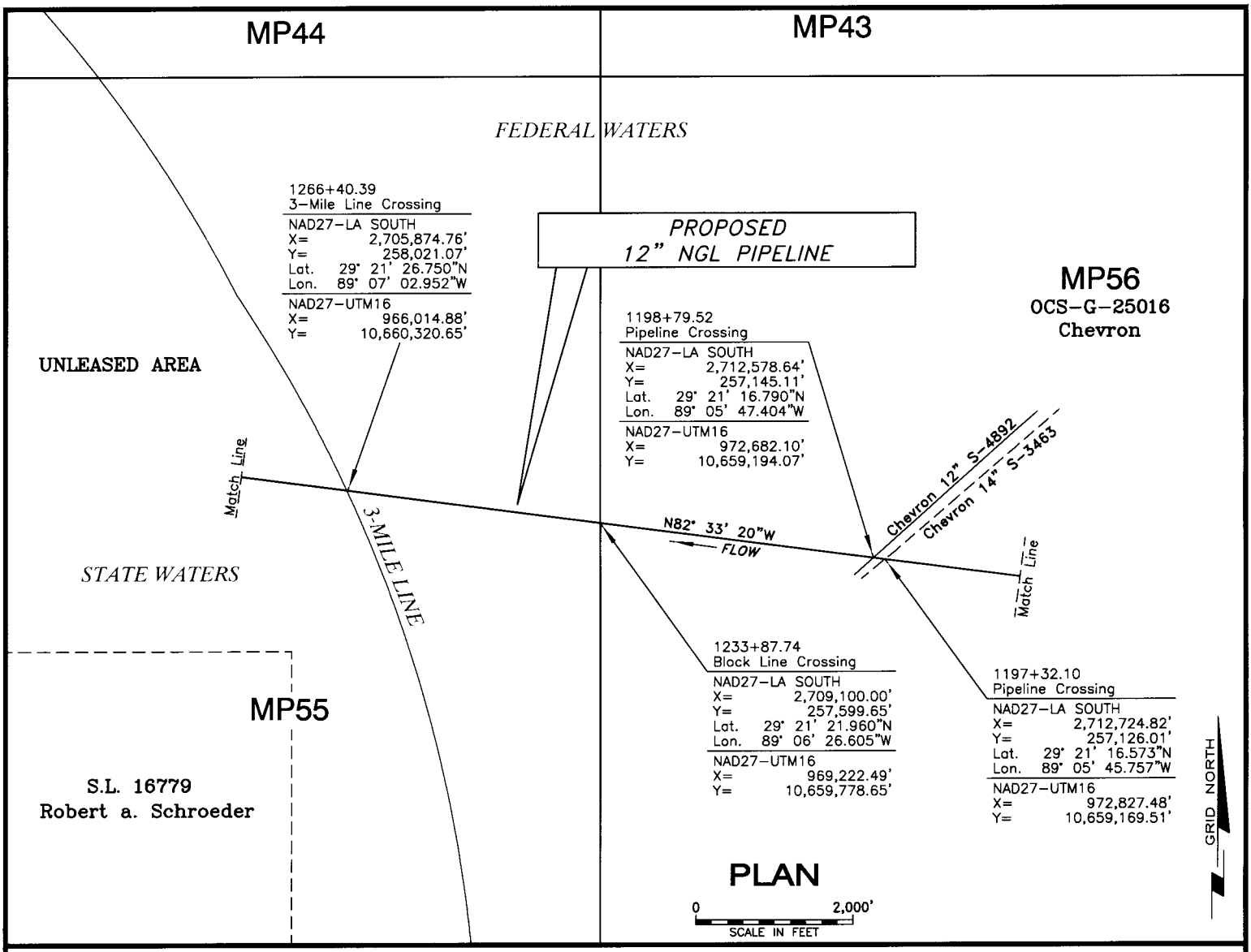

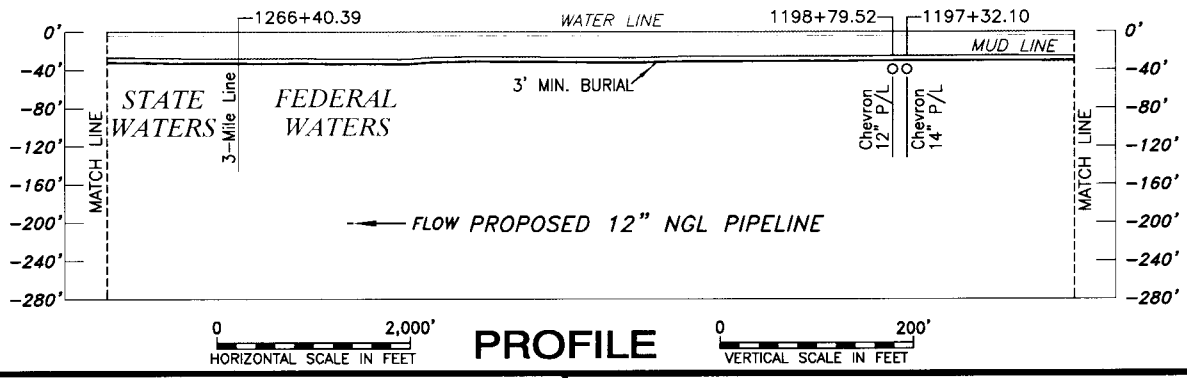

FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 12" NGL PIPELINE ROUTE

MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 2,000'	
Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 15 Of: 21
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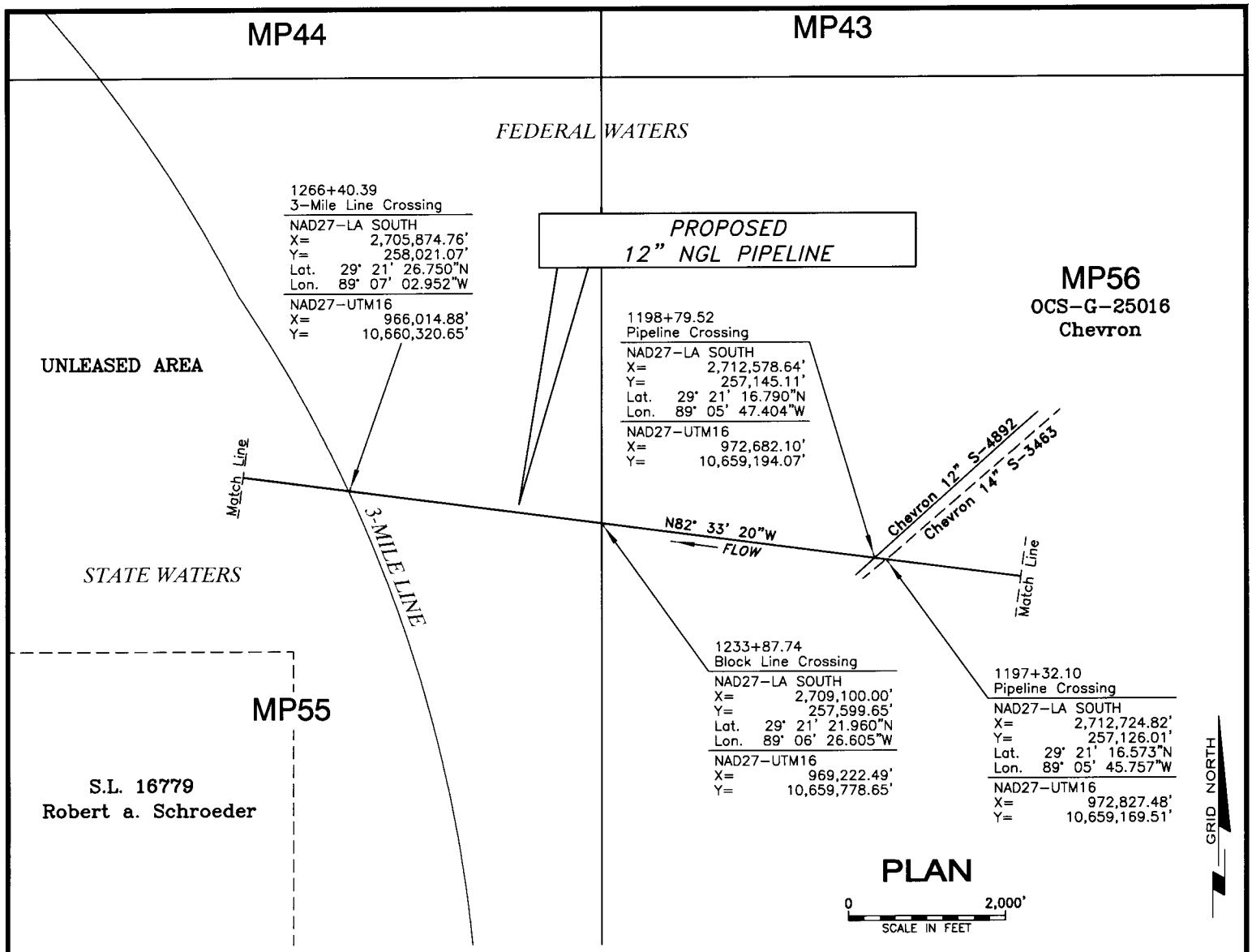


11,575.19' = 701.53 RODS IN UNLEASED AREA (BLK 55)
14,753.03' = 894.12 RODS IN UNLEASED AREA (BLK 54)
13,368.65' = 810.22 RODS IN UNLEASED AREA (BLK 53)
10,357.49' = 627.73 RODS IN S.L. 195C (FOR OFFSHORE SURVEY)
50,054.36' = 3,033.60 RODS IN STATE WATERS

50,054.36' = 9.48 MILES IN STATE WATERS
126,640.39' = 23.98 MILES IN FEDERAL WATERS
176,694.75' = 33.46 MILES TOTAL LENGTH

FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB
PROPOSED 12" NGL PIPELINE ROUTE
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

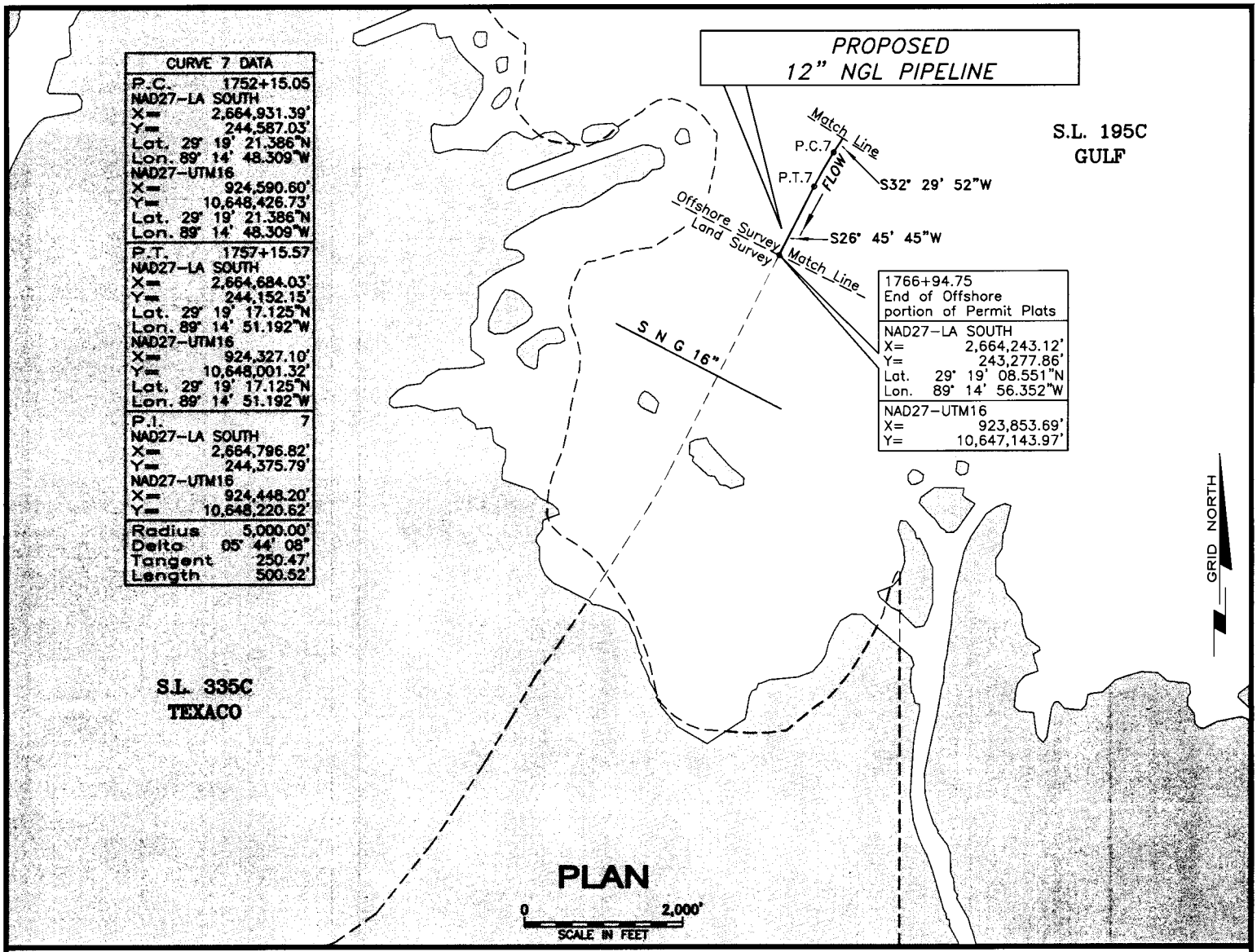
FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

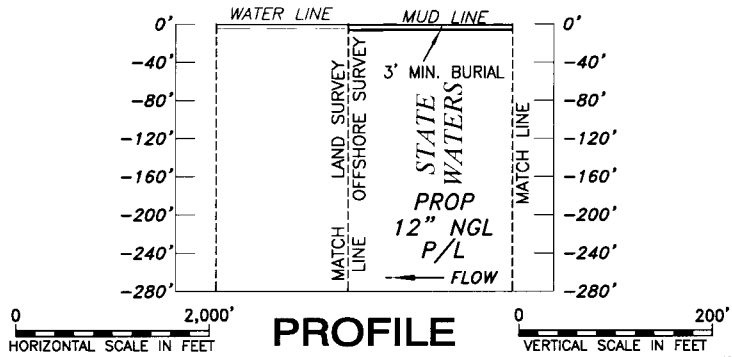
SCALE IN FEET 0 2,000'

Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 15 Of: 21

Dwgfile: H:\2003\034123\CAD\Marine\034123PP



CURVE 7 DATA	
P.C.	1752+15.05
NAD27-LA SOUTH	
X=	2,664,931.39'
Y=	244,587.03'
Lat.	29° 19' 21.386"N
Lon.	89° 14' 48.309"W
NAD27-UTM16	
X=	924,590.60'
Y=	10,648,426.73'
Lat.	29° 19' 21.386"N
Lon.	89° 14' 48.309"W
P.T.	1757+15.57
NAD27-LA SOUTH	
X=	2,664,684.03'
Y=	244,152.15'
Lat.	29° 19' 17.125"N
Lon.	89° 14' 51.192"W
NAD27-UTM16	
X=	924,327.10'
Y=	10,648,001.32'
Lat.	29° 19' 17.125"N
Lon.	89° 14' 51.192"W
P.I.	7
NAD27-LA SOUTH	
X=	2,664,796.82'
Y=	244,375.79'
NAD27-UTM16	
X=	924,448.20'
Y=	10,648,220.62'
Radius	5,000.00'
Delta	05° 44' 08"
Tangent	250.47'
Length	500.52'



FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB
PROPOSED 12" NGL PIPELINE ROUTE
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

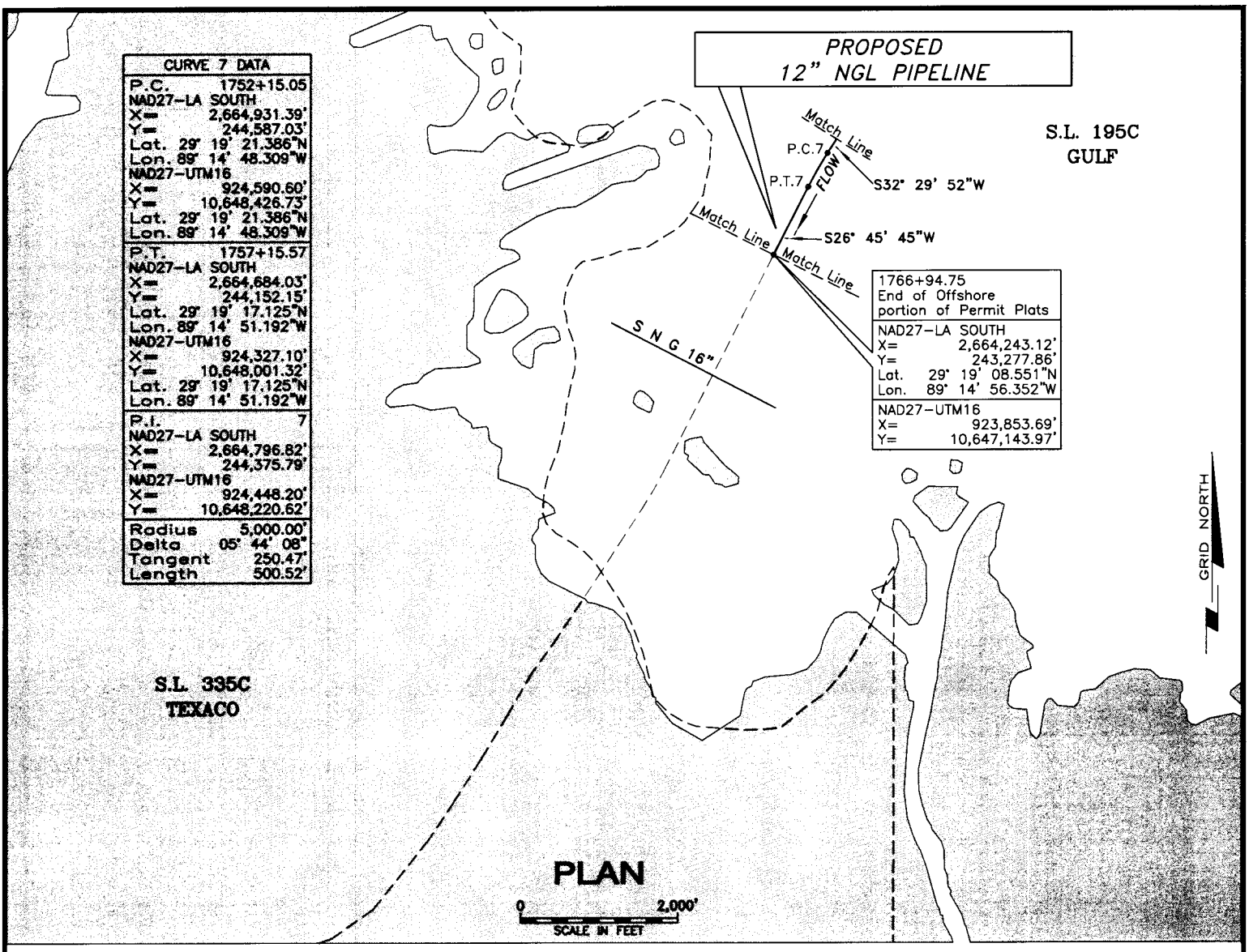
FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1500

GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 2,000'

Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 21 Of: 21

Dwgfile: H:\2003\034123\CAD\Marine\034123PP



CURVE 7 DATA	
P.C.	1752+15.05
NAD27-LA SOUTH	
X=	2,664,931.39'
Y=	244,587.03'
Lat.	29° 19' 21.386"N
Lon.	89° 14' 48.309"W
NAD27-UTM16	
X=	924,590.60'
Y=	10,648,426.73'
Lat.	29° 19' 21.386"N
Lon.	89° 14' 48.309"W
P.T.	1757+15.57
NAD27-LA SOUTH	
X=	2,664,684.03'
Y=	244,152.15'
Lat.	29° 19' 17.125"N
Lon.	89° 14' 51.192"W
NAD27-UTM16	
X=	924,327.10'
Y=	10,648,001.32'
Lat.	29° 19' 17.125"N
Lon.	89° 14' 51.192"W
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NAD27-LA SOUTH	
X=	2,664,796.82'
Y=	244,375.79'
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X=	924,448.20'
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50,054.36' = 3,033.60 RODS IN STATE WATERS

50,054.36' = 9.48 MILES IN STATE WATERS
126,640.39' = 23.98 MILES IN FEDERAL WATERS
176,694.75' = 33.46 MILES TOTAL LENGTH

FREEPORT-MCMORAN ENERGY LLC
MAIN PASS ENERGY HUB

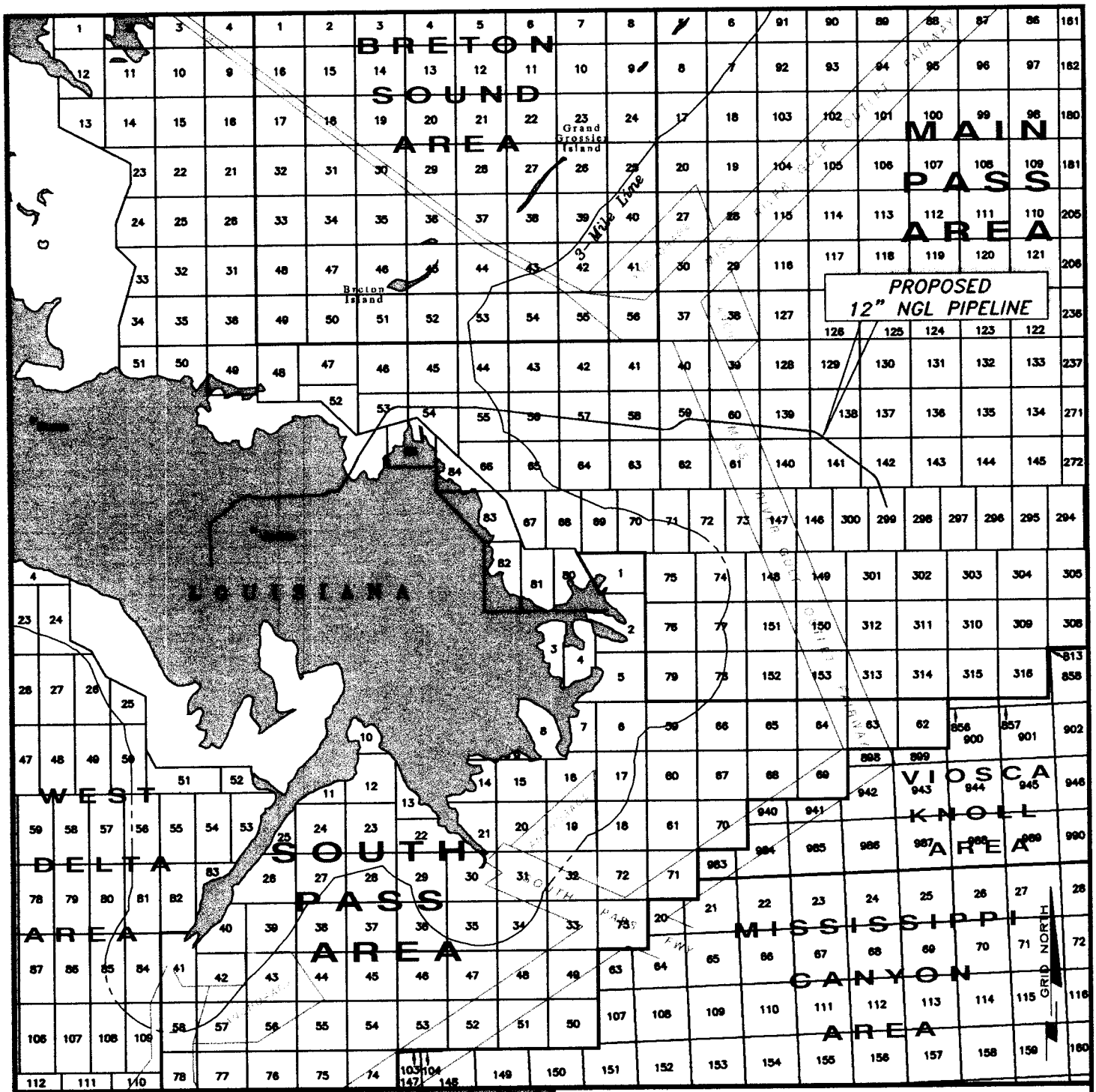
FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB
PROPOSED 12" NGL PIPELINE ROUTE
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

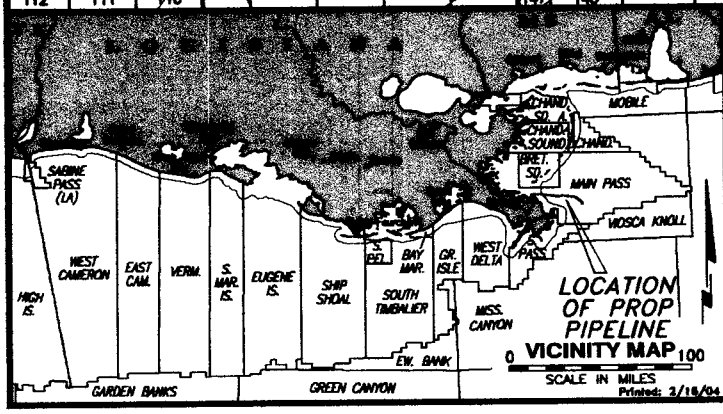
FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 2,000'

Job No.: 03-4123	Date: 2/16/04	Drwn: MGK	Chart: 21 Of: 21
Dwgfile: H:\2003\034123\CAD\Marine\034123PP			



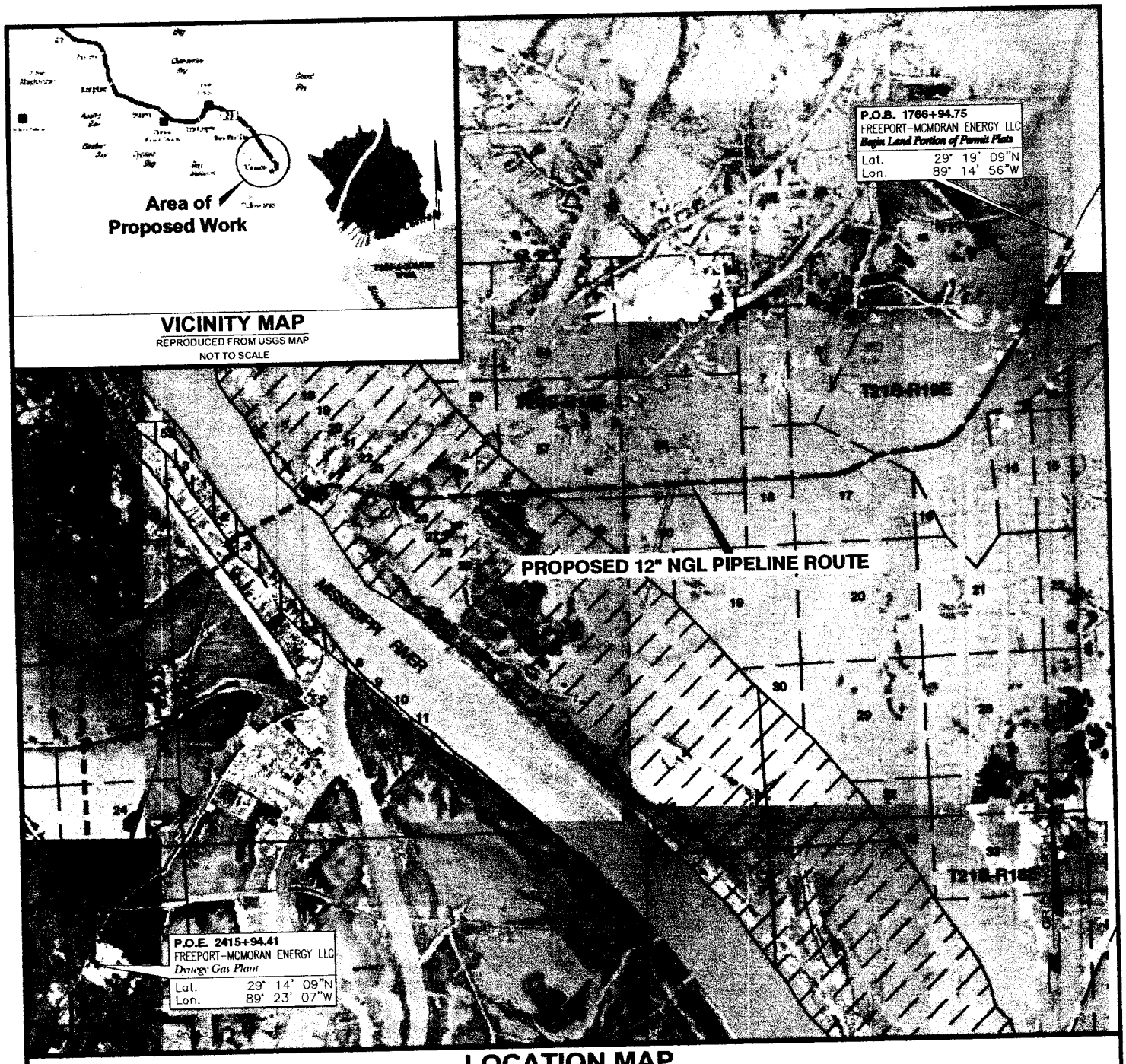


FREEPORT-McMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB
PROPOSED 12" NGL PIPELINE ROUTE
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE, LA.
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3004 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 — 40,000'	
Job No.: 03-4123	Date: 4/01/04	Drwn: MGK	Chart: 1 Of: 21
Dwgfile: H:\2003\034123\CAD\Marine\4123COVR			



VICINITY MAP

REPRODUCED FROM USGS MAP

NOT TO SCALE

LOCATION MAP

REPRODUCED FROM DOQQ AERIAL PHOTOGRAPH

BEGINNING APPROXIMATELY 6.5 MILES NORTHEAST OF VENICE, LA. AND ENDING APPROXIMATELY 2.5 MILES SOUTHWEST OF VENICE, LA.

NOTES:

LIMITED FIELD SURVEY AND INFORMATION USED TO PREPARE THESE PLANS WAS GATHERED FROM THE FOLLOWING SOURCES, EXISTING SURVEY/DATABASE DATA, CLIENT INFORMATION, INTERNET OR GOVERNMENT WEBSITE DATA.

THESE PLANS WERE PREPARED EXCLUSIVELY FOR OBTAINING REGULATORY CLEARANCES, AND DO NOT PURPORT TO BE ENGINEERING DRAWINGS, OR SPECIFICATIONS. THESE PLANS DO NOT PURPORT TO ACCURATELY PORTRAY PROPERTY BOUNDARIES.

FREEPORT-MCMORAN ENERGY LLC

MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB

PROPOSED 12" NGL PIPELINE ROUTE

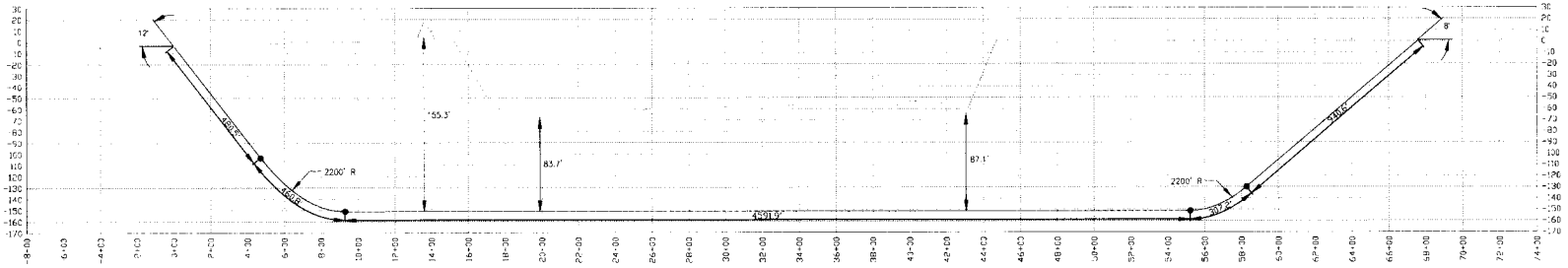
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE,
PLAQUEMINES PARISH, LOUISIANA

JOHN CHANCE
LAND SURVEYS, INC.

UCRD

GEODETIC DATUM: NAD27 PROJECTION: LOUISIANA SOUTH GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 — 6,000'	
Job No.: 04-5016	Date: 2/18/04	Drwn: AZB	Chart: 1 Of: 7
Dwgfile: L:\2004\045016\CAD\C045016			

Proj. Mgr.: LJB
Revised:
Printed: 2/19/04



DIRECTIONAL DRILL DATA MISSISSIPPI RIVER		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 12°	0+00.00	-3.33
VPC1= (2200' RADIUS)	4+70.00	-103.23
VPT1=	9+27.41	-151.31
VPC1= (1800' RADIUS)	9+32.86	-151.31
HPT1=	13+97.41	-151.31
VPC2= (2200' RADIUS)	55+19.33	-151.31
VPT2=	58+25.51	-129.80
EXIT @ 8°	87+58.91	1.00
HORIZONTAL DISTANCE = 8756.91 FT		
DIRECTIONAL DRILL PIPE LENGTH = 8780.92 FT		

PROFILE

HORIZONTAL SCALE: 1" = 300'
VERTICAL SCALE: 1" = 50'

NO.	DATE	DESCRIPTION	BY	CHKD.	APPV'D.	APPV'D.
A	3/13/95	FOR CUSTOMER APPROVAL	X.X.X	X.X.X.	X.X.X.	

REVISION

FREEPORT-McMoRAN ENERGY

FREEPORT-McMoRan ENERGY LLC
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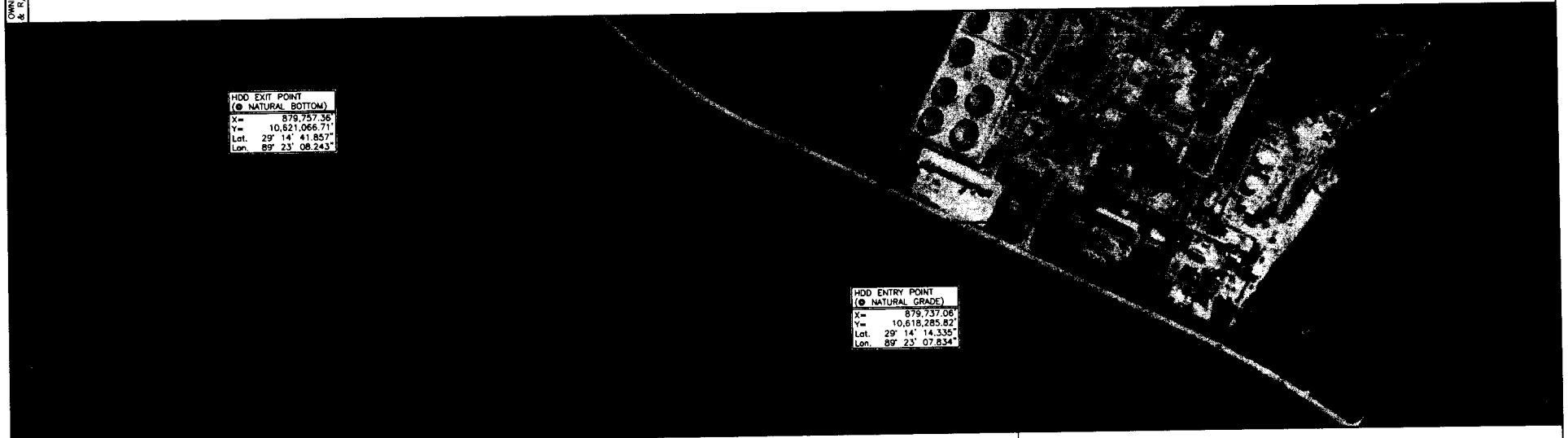
CHECKED BY:
APPROVED BY:
PROJECT NO.: DATE

MISSISSIPPI RIVER
HORIZONATAL DRIRECTIONAL DRILL
x

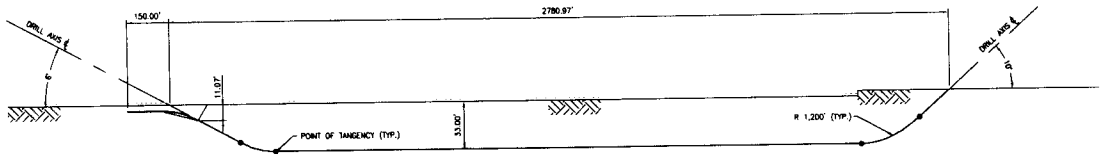
x

DRAWN: DATE:
DESIGN: SCALE:
DWG. NO.: x
A

COUNTY/PARISH & STATE	PLAQUEMINES PARISH, LOUISIANA
OWNERSHIP & R/W NO.	



COATING		30 MILS ABRASION RESISTANT COATING OVER 16 MILS NOMINAL (14 MILS MIN.) EXTERNAL F.B.E.	
PIPE, ANODES AND WELDING		12.75" O.D. x 0.450" W.T., API 5L X-42	
CONCRETE COATING			
PROFILE			
STATIONING			



PROFILE

HORIZONTAL SCALE: 1" = 200'-0"
VERTICAL SCALE: 1" = 50'-0"

GENERAL INFORMATION	LEGEND	INSET	REFERENCE DRAWINGS	REFERENCE DRAWINGS
COORDINATE PROJECTION: UTM ZONE 16, NORTH, NAD27, US FEET				

NO.	REVISIONS	APPR.	DATE
A	PRELIMINARY	M.G.S.	2-17-04

FREEPORT-McMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3000 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7606
(504) 835-5321 Fax (504) 835-6040
E-mail: pcsinc@projectconsulting.com

Freeport-McMoRan Energy, LLC
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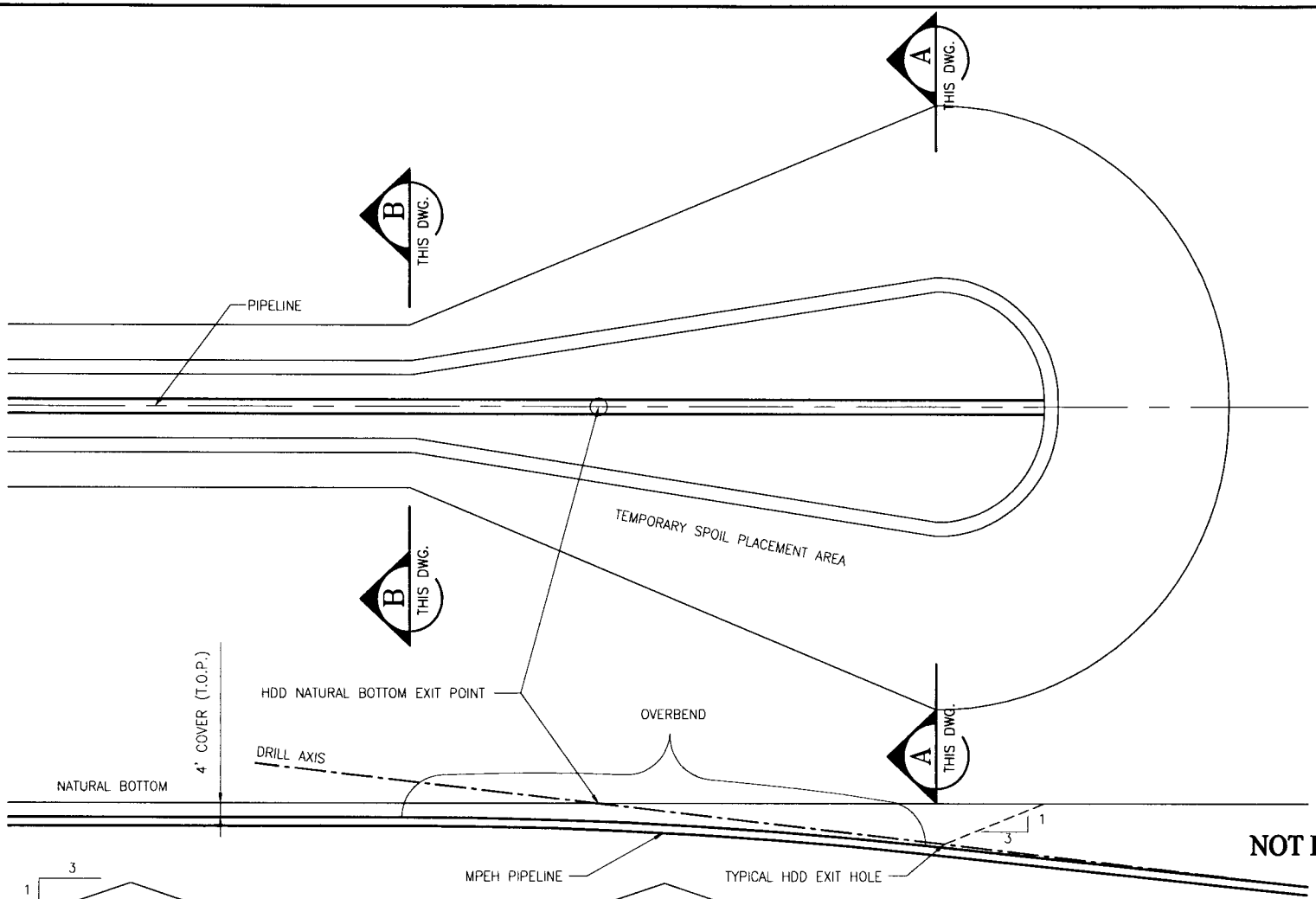
This drawing or copies therefrom are not to be used in any way

CHECKED BY: M.G.S.	2-17-04
APPROVED BY: M.G.S.	2-17-04
PROJECT NO.: 03156	DATE

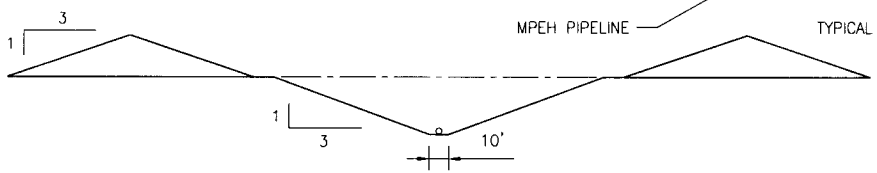
MAIN PASS ENERGY HUB
12" DRILLED CROSSING
VESCO/DYNEGY PLANT

DRAWN G.J.B. DATE 2-17-04
DESIGN M.G.S. SCALE NONE
DWG. NO.: PC-PL-0680
A

02-18-04 18:00 03156 P:\MCADRAW\03156 Offshore 2 CJD

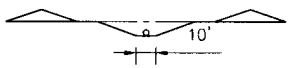


NOT FOR CONSTRUCTION



SECTION A THIS DWG.

SCALE: N.T.S.



SECTION B THIS DWG.

SCALE: N.T.S.

SCALE: N.T.S.

NO.	REVISION	DATE	APPR.
B	GENERAL REVISIONS	2-9-04	M.G.S.
A	PRELIMINARY	2-3-04	M.G.S.

FREEPORT-MCMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
E-mail: pcsinc@projectconsulting.com

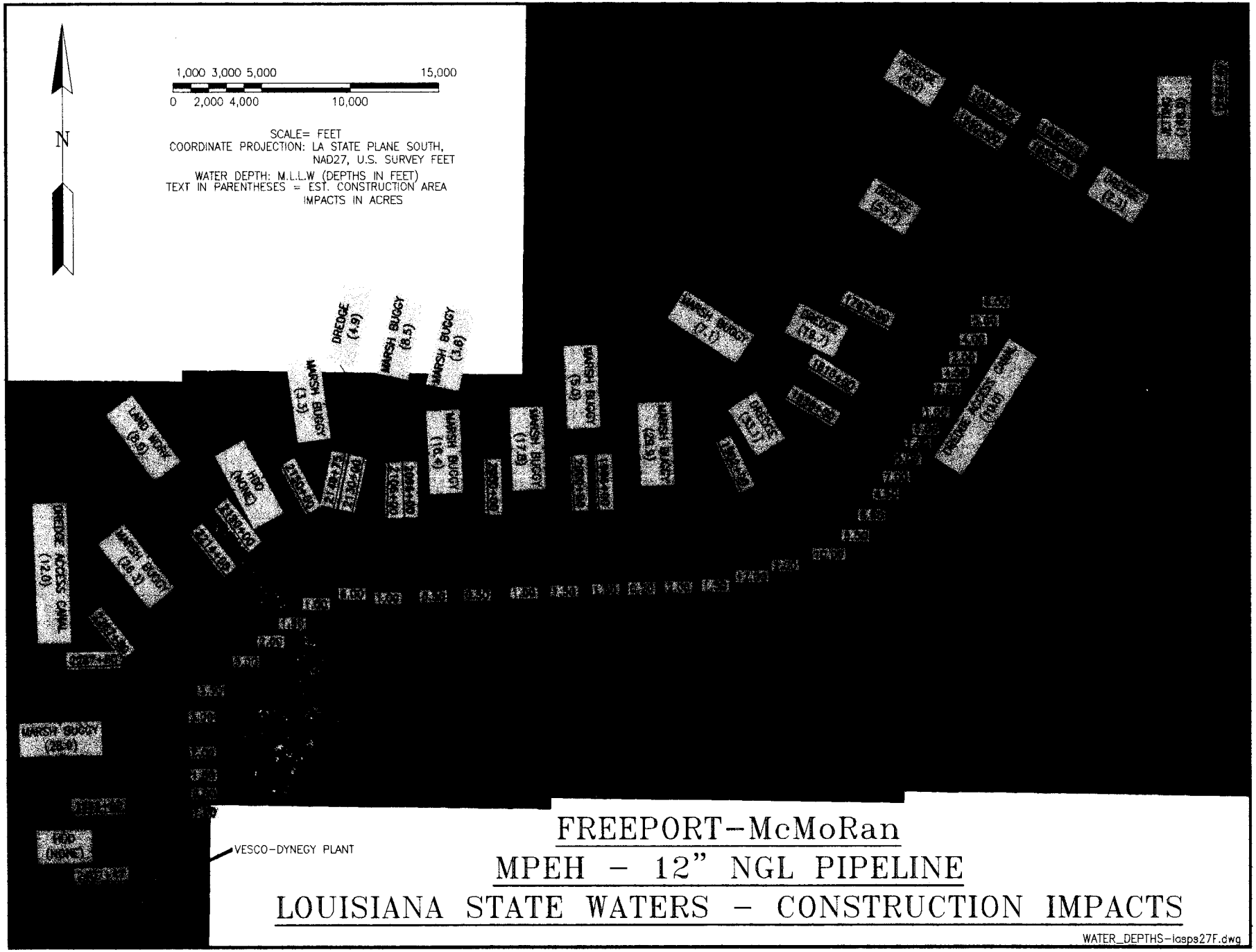
MAIN PASS ENERGY HUB
TYPICAL
HDD EXIT HOLE

DRAWN BY: R.C.E. DATE: 2-3-04

PCS PROJ. NO. 03156

DRAWING NUMBER PC-G-0020

02-09-04 15:43 MCMORAN\03156 4 G.J.D.



FREEPORT-McMoRan
MPEH - 12" NGL PIPELINE
LOUISIANA STATE WATERS - CONSTRUCTION IMPACTS

WATER_DEPTHS-lasps27F.dwg

05-05-04 8:13 03156 6 G.J.D.

FME / MPEH
12" NGL PIPELINE
Louisiana State Waters Impacts

	Approx. distances - for construction & impact only								Est. Construction Area Impacts - Acres				
Description	Mile Post Start	Mile Post End	HDD (ft)	Marsh Buggy (ft)	Land Work (ft)	Dredge (ft)	Flot a tion	Jetting	HDD	Marsh Buggy (1) & (2)	Land (Venice)	Dredge	Jetting
Vesco Plant to HDD Exit Hole	2407+47	2369+00	3847						none	-	-	-	-
HDD Exit Hole to PI # 39	2369+00	2287+80		8120					-	28.9	-	-	-
PI # 39 to Hurricane Levee	2287+80	2214+00		7380					-	26.3	-	-	-
Hurricane Levee to HDD Entrance	2214+00	2190+00			2400				-	-	8.0	-	-
Mississippi River HDD	2190+00	2150+00	4000						none	-	-	-	-
Exit Hole to Baptist Collette	2150+00	2140+75		925					-	3.3	-	-	-
Dredge Baptist Collette	2140+75	2130+00				1075			-	-	-	4.9	-
Marsh Area	2130+00	2106+00		2,400					-	8.5	-	-	-
Shallow Open Water	2106+00	2096+00		1,000					-	3.6	-	-	-
Marsh Area	2096+00	2050+00		4,600					-	16.4	-	-	-
Shallow Open Water	2050+00	2000+00		5,000					-	17.8	-	-	-
Marsh Area (note 3)	2000+00	1986+00		1,400					-	5.0	-	-	-
Shallow Open Water (note 4)	1986+00	1902+00		8,400					-	29.9	-	-	-
Dredge SE Oil Field 4'+ MLLW	1902+00	1830+00				7200			-	-	-	33.1	-
Marsh Area	1830+00	1810+00		2000					-	7.1	-	-	-
Open water, 4'+ MLLW	1810+00	1767+00				4,300	4'		-	-	-	19.7	-
Open water, 4'+ MLLW	1767+00	1650+00				11,700	4'		-	-	-	53.7	-
Open water, 6'+ MLLW	1650+00	1635+00				1500	2'		-	-	-	6.9	-
Open water, 8' + MLLW	1635+00	1630+00				500	0'		-	-	-	2.3	-
Dredged Access Canal	for West of Venice pipe push line and HDD string					7000					-	12.1	
Dredged Access Canal	Assy & push pipe in MB ditch SE of Bapt. Collette					6000					-	10.3	
Open water over 10' MLLW to La./Federal 3 Mile Line	1630+00	1266+40						36,360	-	-	-	-	166.9
							TOTAL ACRES		0.0	146.7	8.0	143.0	166.9
								LAND TOTAL IMPACT				8.0	ACRES
								MARSHLAND TOTAL IMPACTED				**40.3**	ACRES
							note(5)	SHALLOW OPEN WTR. & OPEN WTR.				249.4	ACRES
								OVER 10' WD STATE IMPACTED				166.9	ACRES

(1) Marsh Buggy includes Marsh and Shallow Open Water areas
(2) Marsh Buggy average construction ROW is 155 feet - to relate to E & E Habitat Impact areas.
(3) Increased Marsh Area +100 over Mike G's estimate (1300')
(4) Decreased Marsh Area -100 from Mike G's estimate (8500')
(5) Includes the Dredged Access Canal's.

Project No. 03156

6/8/2004

* SEE CURVE DATA ON 11 & 12 ON SHEET (2 of 7) *

TIE	STATION	X COORDINATE	Y COORDINATE	BEARING	DISTANCE
1	1766+95	2,664,243'	243,278'	S26° 45' 45"W	3,128'
2	1798+23	2,662,835'	240,485'	S32° 17' 56"W	2,566'
3	1823+89	2,661,463'	238,816'	S35° 34' 23"W	521'
4	1829+11	2,661,160'	237,892'	S30° 14' 38"W	1,264'
5	1841+74	2,660,523'	236,900'	S32° 51' 05"W	1,257'
6	1854+31	2,659,841'	235,744'	S38° 14' 16"W	1,141'
7	1865+72	2,659,135'	234,847'	S54° 47' 54"W	653'
8	1872+26	2,658,602'	234,471'	S71° 26' 38"W	382'
9	1876+07	2,658,240'	234,350'	S78° 45' 00"W	537'
10	1881+44	2,657,713'	234,245'	S84° 15' 30"W	1,114'
11	1892+58	2,656,605'	234,133'	* CURVE *	889'
12	1901+47	2,655,735'	233,959'	* CURVE *	1,140'
13	1912+87	2,654,721'	233,439'	S62° 17' 08"W	338'
14	1916+24	2,654,422'	233,282'	S77° 34' 46"W	707'
15	1923+31	2,653,732'	233,130'	S83° 36' 17"W	228'
16	1925+59	2,653,505'	233,104'	S89° 32' 10"W	266'
17	1928+25	2,653,240'	233,102'	S87° 47' 46"W	545'
18	1933+70	2,652,695'	233,081'	S87° 38' 58"W	1,025'
19	1943+96	2,651,670'	233,039'	S88° 14' 06"W	2,076'
20	1964+71	2,649,595'	232,979'	S88° 01' 37"W	704'
21	1971+75	2,648,892'	232,951'	S87° 34' 28"W	1,178'
22	1983+54	2,647,715'	232,901'	S87° 54' 11"W	3,764'
23	2021+18	2,643,953'	232,763'	S88° 39' 03"W	960'
24	2029+77	2,643,094'	232,743'	S87° 50' 22"W	1,057'
25	2040+34	2,642,038'	232,703'	S86° 26' 26"W	839'
26	2048+73	2,641,200'	232,651'	S88° 31' 20"W	825'
27	2056+98	2,640,376'	232,630'	S88° 10' 34"W	1,512'
28	2072+10	2,638,865'	232,582'	S88° 03' 04"W	1,370'
29	2085+79	2,637,496'	232,535'	S87° 06' 53"W	1,063'
30	2096+43	2,636,434'	232,482'	S88° 12' 38"W	679'
31	2103+21	2,635,756'	232,461'	S87° 02' 47"W	194'
32	2105+15	2,635,562'	232,451'	N88° 22' 19"W	560'
33	2110+75	2,635,003'	232,466'	N77° 35' 10"W	3,148'
34	2142+23	2,631,929'	233,143'	S61° 20' 49"W	4,391'
35	2186+14	2,628,075'	231,038'	N37° 45' 41"W	123'
36	2187+37	2,628,000'	231,135'	S51° 31' 16"W	794'
37	2195+31	2,627,378'	230,641'	S36° 48' 29"E	522'
38	2200+53	2,627,691'	230,222'	S51° 14' 38"W	8,727'
39	2287+80	2,620,866'	224,759'	S01° 43' 18"E	11,967'
40	2407+47	2,621,245'	212,796'	S24° 13' 07"W	311'
41	2410+58	2,621,118'	212,514'	S65° 46' 53"E	349'
42	2414+07	2,621,436'	212,371'	S24° 13' 07"W	127'
43	2415+34	2,621,384'	212,255'	N65° 46' 53"W	60'
44	2415+94	2,621,329'	212,280'		
TOTAL LENGTH = 64,889' = 12.29 MILES					

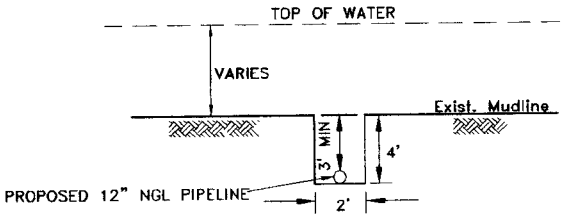
NOTES:

PROPOSED PIPELINES TO BE JETTED 3' BELOW EXISTING MUDLINE.

APPROX. 19,230 CU YDS OF MATERIAL TO BE DISPLACED.

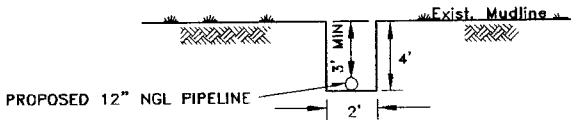
APPROX. 7 CU YDS OF SANDBAG MATERIAL REQUIRED FOR EACH SANDBAG BRACE.

MATERIAL DISPLACED DURING SANDBAG BRACE INSTALLATION WILL BE SPREAD AS NOT TO EXCEED .5' FROM EXISTING MUDLINE.



TYPICAL FLOWLINE X-SECTION IN OPEN WATER

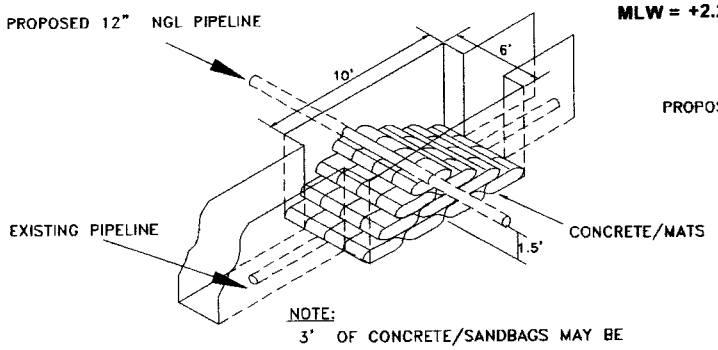
NOT TO SCALE



TYPICAL FLOWLINE X-SECTION ON LAND

NOT TO SCALE

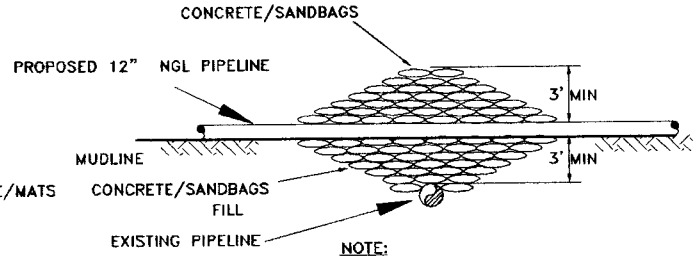
MHW = +3.7'NGVD
MLW = +2.2'NGVD



NOTE:
3' OF CONCRETE/SANDBAGS MAY BE USED INSTEAD OF CONCRETE/MATS

TYPICAL PIPELINE CROSSING

NOT TO SCALE



NOTE:
1.5' OF CONCRETE/MATS MAY BE USED INSTEAD OF CONCRETE/SANDBAGS

TYPICAL PIPELINE CROSSING WITH ADDITIONAL COVER

NOT TO SCALE

Permittee shall contact the Louisiana One Call at 1-800-272-3020 forty-eight hours prior to excavation or demolition

All structures, facilities, well and pipelines/flowlines shall be removed within 120 days of abandonment of the facilities for the herein permitted use. This condition does not preclude the necessity for revising the current permit or obtaining a separate Coastal Use Permit, should one be required, for such removal activities.
All structures will be marked in accordance with U.S. Coast Guard regulations.
As-built drawings shall be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Office of Conservation, Pipeline Division, P. O. Box 94275, Baton Rouge, LA 70804 and to the Louisiana Department of Natural Resources, Coastal Management Division, P. O. Box 44487, Baton Rouge, LA. 70804-4487.

Proj. Mgr.: LJB
Revised:
Printed: 2/21/04

FREEPORT-McMORAN ENERGY LLC
MAIN PASS ENERGY HUB

FREEPORT-McMORAN ENERGY LLC MAIN PASS ENERGY HUB
PROPOSED 12" NGL PIPELINE ROUTE
MAIN PASS BLK 299 BS-8 TO
DYNEGY GAS PLANT, VENICE,
PLAQUEMINES PARISH, LOUISIANA

JOHN CHANCE
LAND SURVEYS, INC.

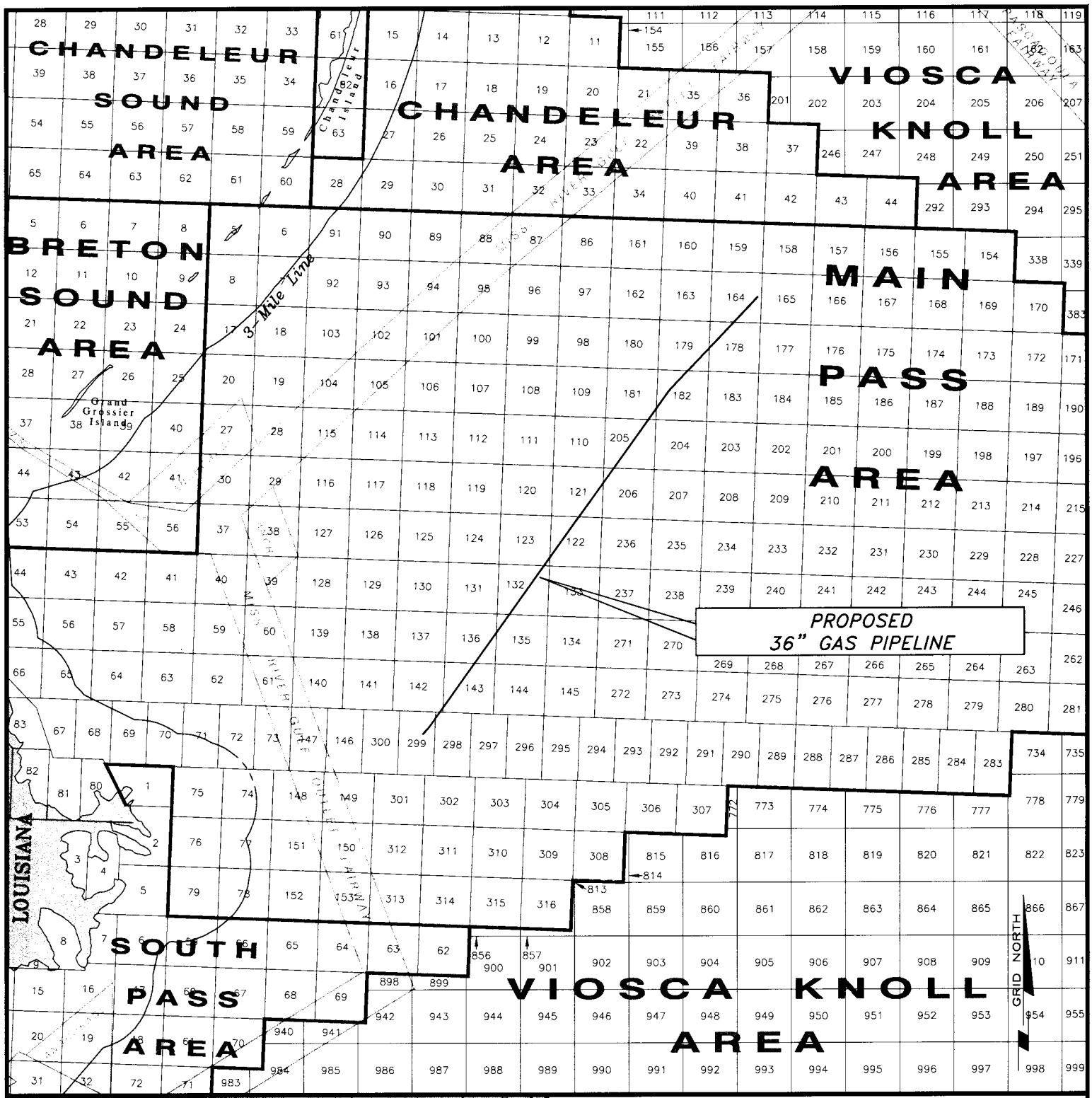
UGRO

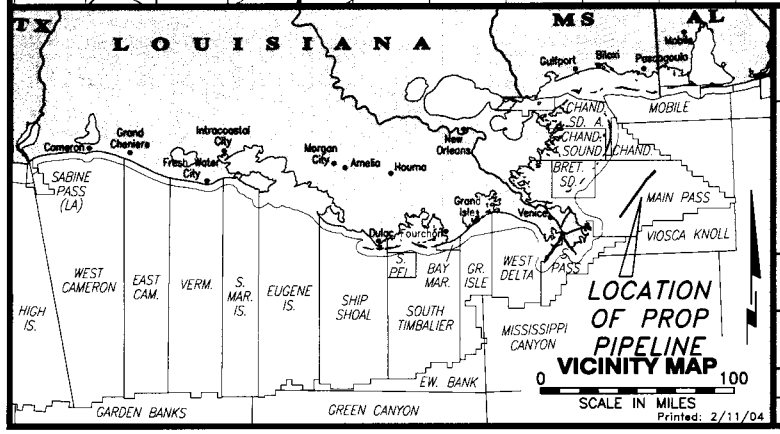
GEODETIC DATUM: NAD27
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

NOT TO SCALE

Job No.: 04-5016 | Date: 2/18/04 | Drwn: AZB | Chart: 7 Of: 7

Dwgfile: L:\2004\045016\CAD\C045016F





McMoRan

FREEPORT-MCMORAN ENERGY LLC

PROPOSED 36" GAS PIPELINE

BLK 299 PP-2 TO BLK 164-PROP PLTFM SITE
MAIN PASS AREA
GULF OF MEXICO

FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27
PROJECTION: U.T.M. 16
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 40,000'

Job No.: 04-0307	Date: 2/12/04	Drwn: MGK	Chart: 1 Of: 20

Dwgfile: H:\2004\040307\CAD\Marine\0307covrPipe2_South

MP142 | MP143

OCS-G-01316
CHEVRON USA INC

MP299

TOTAL LENGTH= 162,480.61' = 30.77 MI.

PROPOSED
36" GAS PIPELINE

41+50.50 Pipeline Crossing
NAD27-UTM16
X= 1,082,774.43'
Y= 10,628,206.78'
Lat. 29° 16' 27.982"N
Lon. 88° 44' 58.323"W
NAD27-LA SOUTH
X= 2,823,750.75'
Y= 230,304.97'

44+84.45 Pipeline Crossing
NAD27-UTM16
X= 1,082,967.06'
Y= 10,628,479.57'
Lat. 29° 16' 30.711"N
Lon. 88° 44' 56.194"W
NAD27-LA SOUTH
X= 2,823,933.04'
Y= 230,584.80'

39+09.70 Pipeline Crossing
NAD27-UTM16
X= 1,082,635.52'
Y= 10,628,010.08'
Lat. 29° 16' 26.015"N
Lon. 88° 44' 59.858"W
NAD27-LA SOUTH
X= 2,823,619.31'
Y= 230,103.19'

38+81.34 Pipeline Crossing
NAD27-UTM16
X= 1,082,619.16'
Y= 10,627,986.91'
Lat. 29° 16' 25.783"N
Lon. 88° 45' 00.039"W
NAD27-LA SOUTH
X= 2,823,603.83'
Y= 230,079.43'

CURVE 1 DATA	
P.C.	09+83.27
NAD27-UTM16	
X=	1,080,774.96'
Y=	10,625,760.58'
Lat.	29° 16' 03.470"N
Lon.	88° 45' 20.484"W
NAD27-LA SOUTH	
X=	2,821,844.27'
Y=	227,785.44'
Lat.	29° 16' 03.470"N
Lon.	88° 45' 20.484"W
P.T.	30+95.27
NAD27-UTM16	
X=	1,082,165.73'
Y=	10,627,344.81'
Lat.	29° 16' 19.359"N
Lon.	88° 45' 05.050"W
NAD27-LA SOUTH	
X=	2,823,174.75'
Y=	229,420.75'
Lat.	29° 16' 19.359"N
Lon.	88° 45' 05.050"W
P.I.	1
NAD27-UTM16	
X=	1,081,554.31'
Y=	10,626,478.99'
NAD27-LA SOUTH	
X=	2,822,596.18'
Y=	228,532.58'
Radius	10,000.00'
Delta	12° 06' 03"
Tangent	1,059.95'
Length	2,112.00'

34+10.30 Cable Crossing
NAD27-UTM16
X= 1,082,347.44'
Y= 10,627,602.14'
Lat. 29° 16' 21.934"N
Lon. 88° 45' 03.042"W
NAD27-LA SOUTH
X= 2,823,346.71'
Y= 229,684.72'

35+01.90 Pipeline Crossing
NAD27-UTM16
X= 1,082,400.29'
Y= 10,627,676.97'
Lat. 29° 16' 22.682"N
Lon. 88° 45' 02.458"W
NAD27-LA SOUTH
X= 2,823,396.71'
Y= 229,761.48'

27+26.51 Lease Line Crossing
NAD27-UTM16
X= 1,081,947.50'
Y= 10,627,047.57'
Lat. 29° 16' 16.385"N
Lon. 88° 45' 07.464"W
NAD27-LA SOUTH
X= 2,822,967.81'
Y= 229,115.53'

27+18.43 Pipeline Crossing
NAD27-UTM16
X= 1,081,942.60'
Y= 10,627,041.15'
Lat. 29° 16' 16.320"N
Lon. 88° 45' 07.518"W
NAD27-LA SOUTH
X= 2,822,963.15'
Y= 229,108.93'

06+70.61 Cable Crossing
NAD27-UTM16
X= 1,080,545.08'
Y= 10,625,548.66'
Lat. 29° 16' 01.338"N
Lon. 88° 45' 23.043"W
NAD27-LA SOUTH
X= 2,821,622.47'
Y= 227,565.05'

00+00.00 Str "PP-2"	Blk 299
NAD27-UTM16	
X=	1,080,052.00'
Y=	10,625,094.14'
Lat.	29° 15' 56.766"N
Lon.	88° 45' 28.533"W
NAD27-LA SOUTH	
X=	2,821,146.75'
Y=	227,092.35'

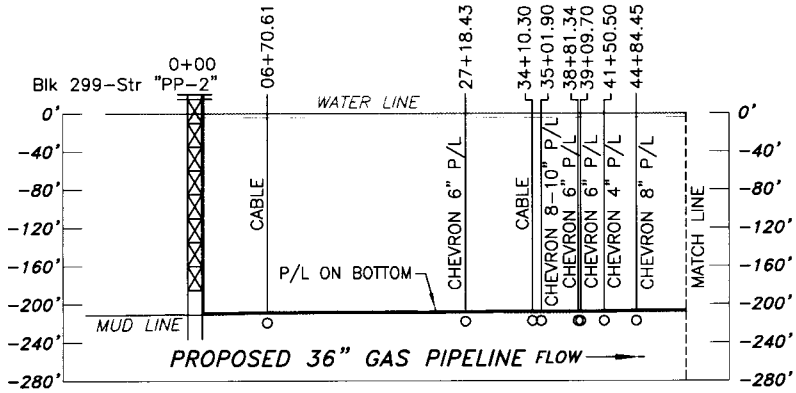
Chevron 8" S-447
Match Line
N35° 13' 43"E
Chevron 4" S-3469
Chevron 6" S-205
Chevron 6" S-206
Chevron 8-10" S-9245
CABLE
P.T.1
Chevron 6" S-431
FLOW
N47° 19' 47"E
P.C.1
Str "PP-2"
CABLE
OCS-G-12362
FREEPORT-McMORAN
GRID NORTH
MP298
OCS-G-01315
Chevron

DESIGN CHARACTERISTICS OF THIS PIPELINE ARE IN COMPLIANCE WITH APPLICABLE REGULATIONS.

AREA ENGINEER

PLAN

0 2,000'
SCALE IN FEET



0 200'
VERTICAL SCALE IN FEET

PROFILE

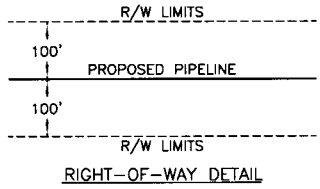
0 2,000'
HORIZONTAL SCALE IN FEET

THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

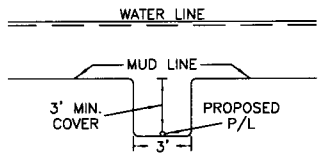
STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

Lionel J. Cormier

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT-OF-WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 2/11/04

McMoRan
FREEPORT-MCMORAN ENERGY LLC

PROPOSED
36" GAS PIPELINE
BLK 299 PP-2 TO BLK 164-PROP PLTFM SITE
MAIN PASS AREA
GULF OF MEXICO

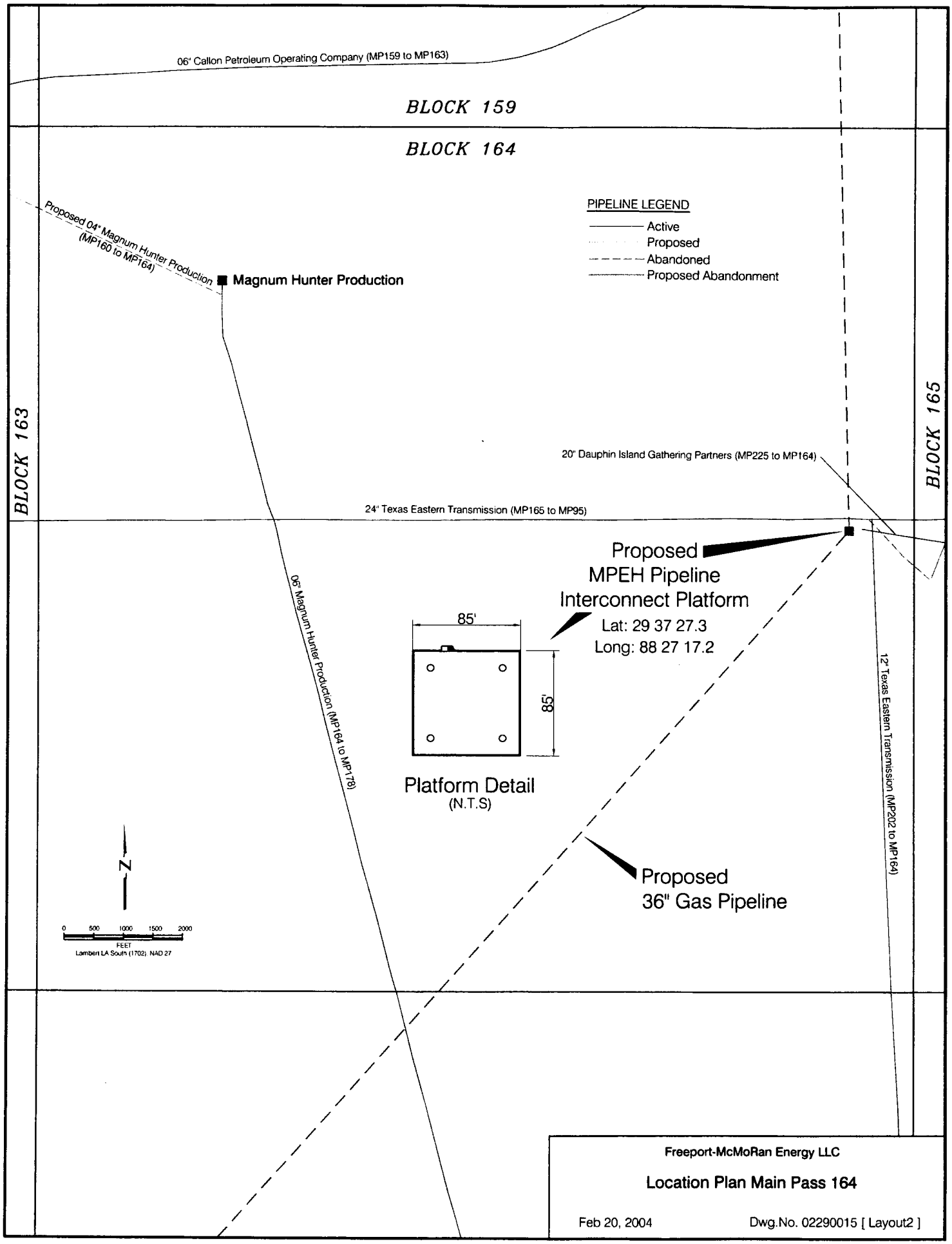
FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27
PROJECTION: U.T.M. 16
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 2,000'

Job No.: 04-0307	Date: 2/12/04	Drwn: MGK	Chart: 2 Of: 20

Dwgfile: H:\2004\040307\CAD\Marine\040307pp_Pipe2


06" Callon Petroleum Operating Company (MP159 to MP163)
BLOCK 159
BLOCK 164
BLOCK 163
BLOCK 165
PIPELINE LEGEND
Active
Proposed
Abandoned
Proposed Abandonment
Proposed 04" Magnum Hunter Production (MP160 to MP164)
Magnum Hunter Production
20" Dauphin Island Gathering Partners (MP225 to MP164)
24" Texas Eastern Transmission (MP165 to MP95)
Proposed MPEH Pipeline Interconnect Platform
Lat: 29 37 27.3
Long: 88 27 17.2
06" Magnum Hunter Production (MP164 to MP178)
85'
85'
Platform Detail
(N.T.S)
12" Texas Eastern Transmission (MP202 to MP164)
Proposed 36" Gas Pipeline
N
0 500 1000 1500 2000
FEET
Lambert LA South (1702) NAD 27
Freeport-McMoRan Energy LLC
Location Plan Main Pass 164
Feb 20, 2004
Dwg.No. 02290015 [Layout2]

VIOSCA KNOLL AREA

CHANDELEUR AREA

MAIN PASS AREA

Chandeleur Island

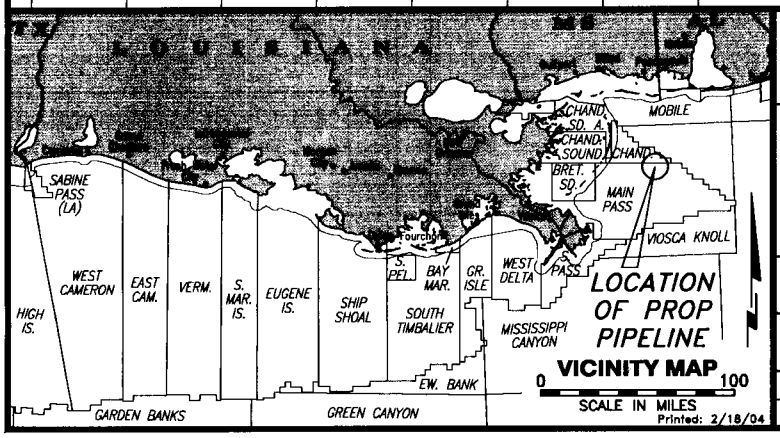
3-Mile Line

MISS RIVER GULF OUTLET FAIRWAY

PASCAGOULA FAIRWAY

PROPOSED 16" GAS PIPELINE

GRID NORTH



FREEPORT-MCMORAN ENERGY LLC

PROPOSED 16" GAS PIPELINE

BLK 164-PROP PLTFM SITE TO BLK 164 TIE-IN TO 20"
MAIN PASS AREA
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27
PROJECTION: U.T.M. 16
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 30,000'

Job No.: 04-0307	Date: 2/16/04	Drwn: MGK	Chart: 1 Of: 2

Dwgfile: H:\2004\040307\CAD\Marine\0307covrPipes_MP164_South

MP164

OCS–G–21143
Magnum

Proposed 36" Gas Pipeline

00+00.00
MP 164–Prop Pltfm Site

NAD27–UTM16
X= 1,178,320.00'
Y= 10,754,100.00'
Lat. 29° 37' 27.311"N
Lon. 88° 27' 17.246"W

NAD27–LA SOUTH
X= 2,914,505.25'
Y= 359,708.98'

Prop Pltfm Site

02+83.72
Tie–in to Existing 20"

NAD27–UTM16
X= 1,178,591.03'
Y= 10,754,094.06'
Lat. 29° 37' 27.286"N
Lon. 88° 27' 14.174"W

NAD27–LA SOUTH
X= 2,914,776.34'
Y= 359,713.25'

Dauphin 16" Interconnect

TETCO 12" S–8240

Dauphin 20"
S–10824

S86° 12' 52"E
FLOW

N00° 26' 38"W

02+71.72
Pre–Fab Bend

NAD27–UTM16
X= 1,178,591.12'
Y= 10,754,082.06'
Lat. 29° 37' 27.167"N
Lon. 88° 27' 14.171"W

NAD27–LA SOUTH
X= 2,914,776.89'
Y= 359,701.26'

Proposed 36" Gas Pipeline

PROPOSED
16" GAS PIPELINE

TOTAL LENGTH= 283.72' = 0.05 MI.

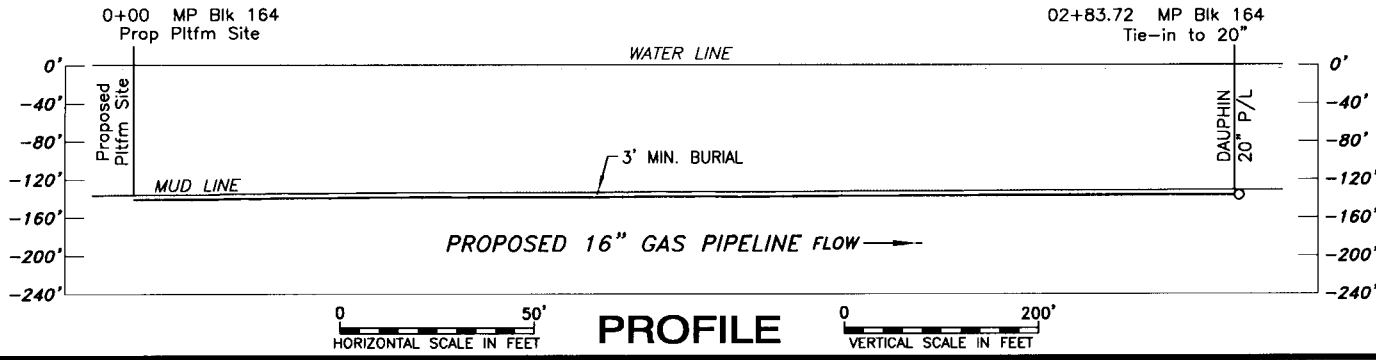
GRID NORTH

DESIGN CHARACTERISTICS OF THIS PIPELINE ARE IN COMPLIANCE WITH APPLICABLE REGULATIONS.

AREA ENGINEER

PLAN

0 50'
SCALE IN FEET

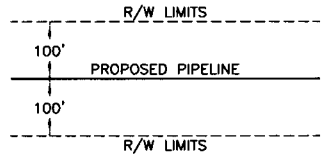


PROFILE

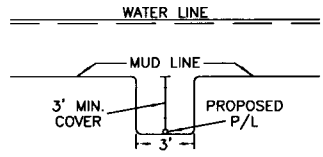
THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED
PROFESSIONAL
LAND SURVEYOR

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT–OF–WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 2/18/04

FREEPORT-MCMORAN ENERGY LLC

PROPOSED
16" GAS PIPELINE
BLK 164-PROP PLTFM SITE TO BLK 164 TIE-IN TO 20"
MAIN PASS AREA
GULF OF MEXICO

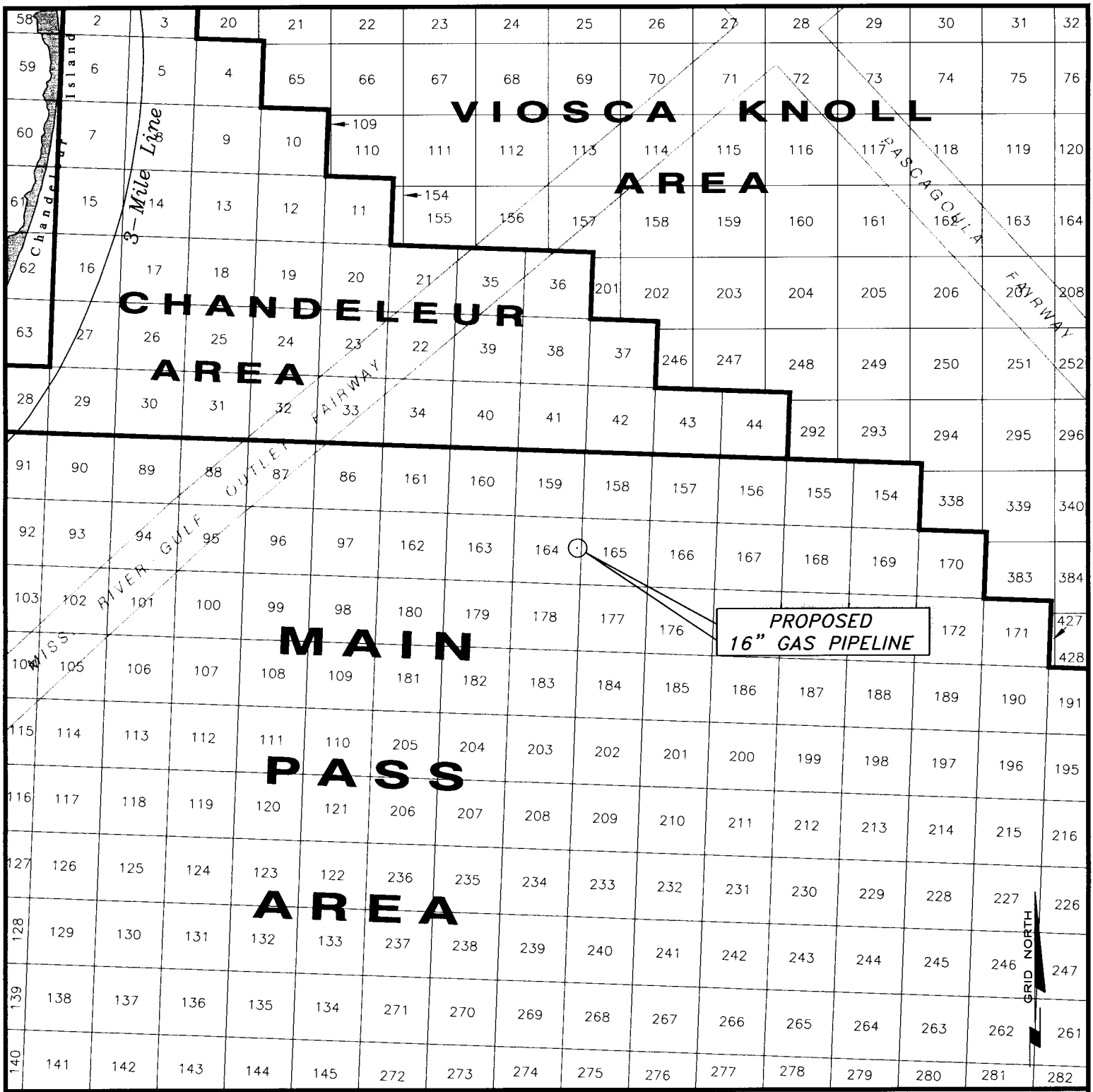
FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

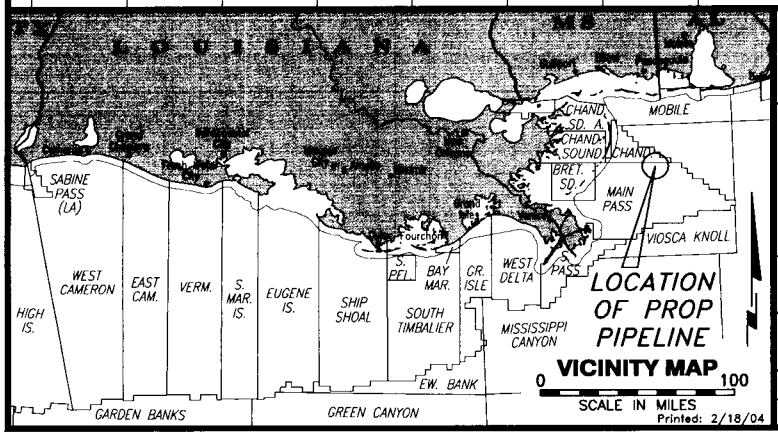
GEODETIC DATUM: NAD27
PROJECTION: U.T.M. 16
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 50'

Job No.: 04–0307	Date: 2/16/04	Drwn: MGK	Chart: 2 Of: 2

Dwgfile: H:\2004\040307\CAD\Marine\040307ppPipes_MP164_South





McMoRan

FREEPORT-MCMORAN ENERGY LLC

PROPOSED 16" GAS PIPELINE

BLK 164-PROP PLTFM SITE TO BLK 164 TIE-IN TO 16"
MAIN PASS AREA
GULF OF MEXICO

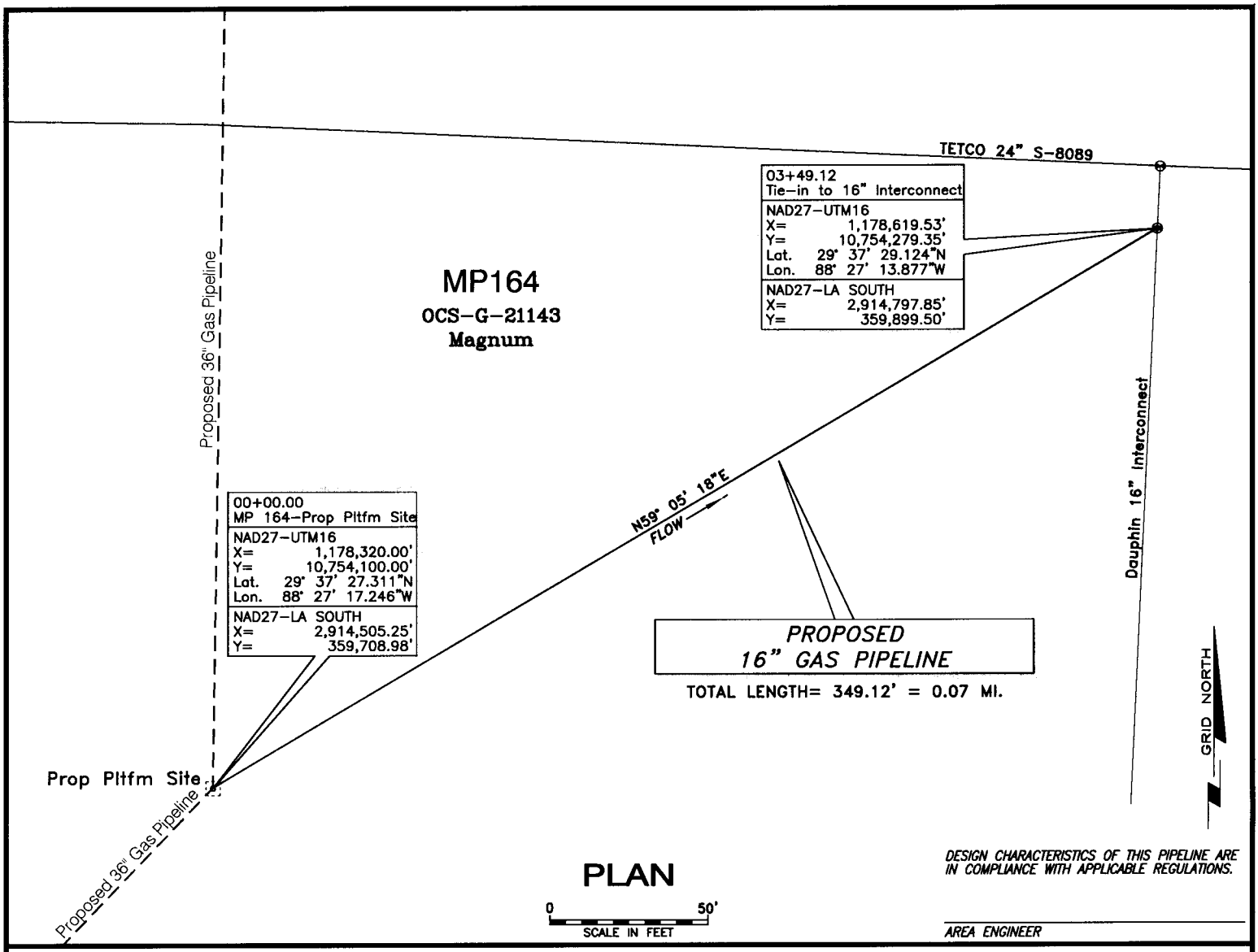
FUGRO CHANCE INC. FUGRO
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

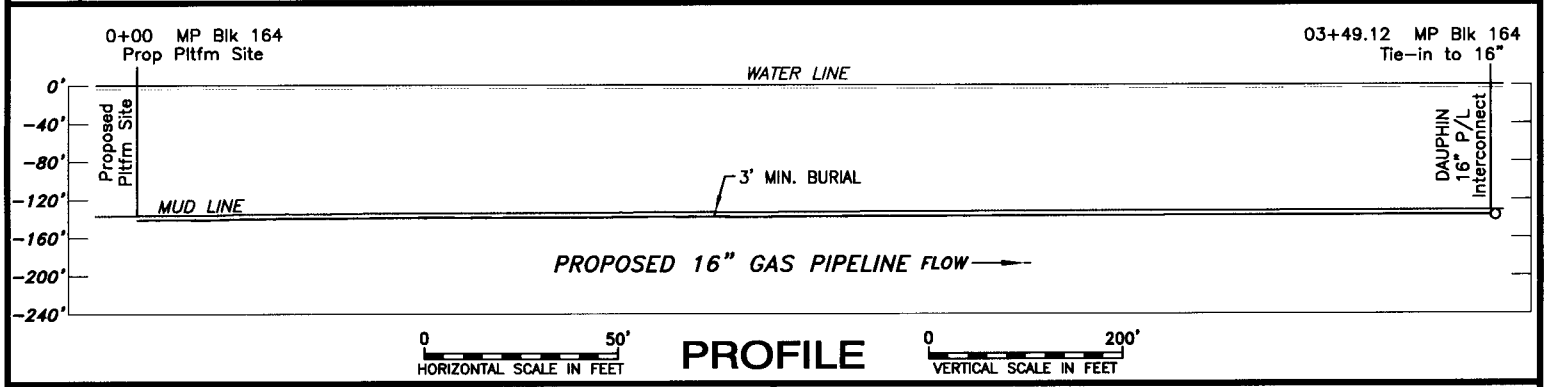
GEODETIC DATUM: NAD27
PROJECTION: U.T.M. 16
GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 30,000'

Job No.: 04-0307	Date: 2/16/04	Drwn: MGK	Chart: 1 Of: 2

Dwgfile: H:\2004\040307\CAD\Marine\0307covrPipes_MP164_North

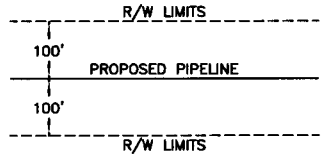




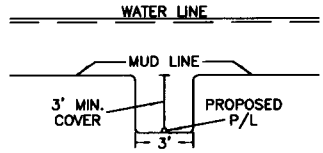
THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



RIGHT-OF-WAY DETAIL



TYPICAL DITCH DETAIL

Printed: 2/18/04

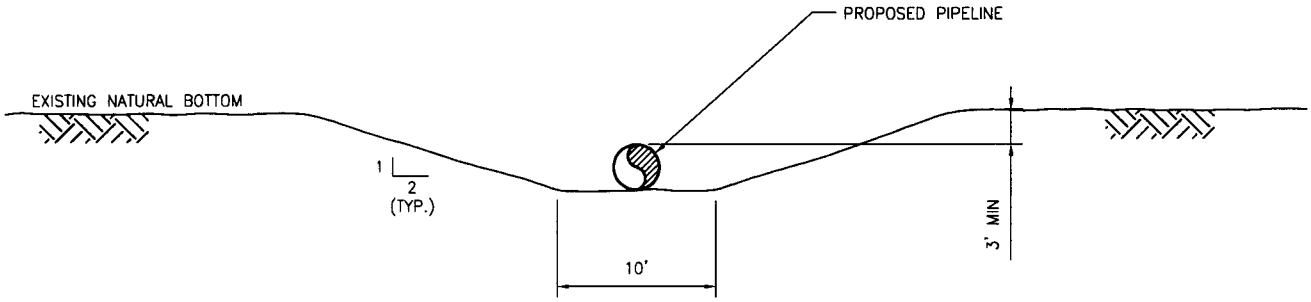
FREEPORT-MCMORAN ENERGY LLC

PROPOSED 16" GAS PIPELINE

BLK 164-PROP PLTFM SITE TO BLK 164 TIE-IN TO 16"
MAIN PASS AREA
GULF OF MEXICO

FUGRO CHANCE INC.
200 Dulles Dr. Lafayette, Louisiana 70506-3001 (337) 237-1300

GEODETIC DATUM: NAD27 PROJECTION: U.T.M. 16 GRID UNITS: US SURVEY FEET		SCALE IN FEET 0 50'	
Job No.: 04-0307	Date: 2/16/04	Drwn: MGK	Chart: 2 Of: 2
Dwgfile: H:\2004\040307\CAD\Marine\040307ppPipes_MP164_North			



TYPICAL JETTED TRENCH

NOT FOR CONSTRUCTION

FREEPORT-MCMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
E-mail: pcsinc@projectconsulting.com

SCALE: N.T.S.

NO.	REVISION	DATE	APPR.
B	GENERAL REVISIONS	2-9-04	M.G.S.
A	PRELIMINARY	2-4-04	M.G.S.

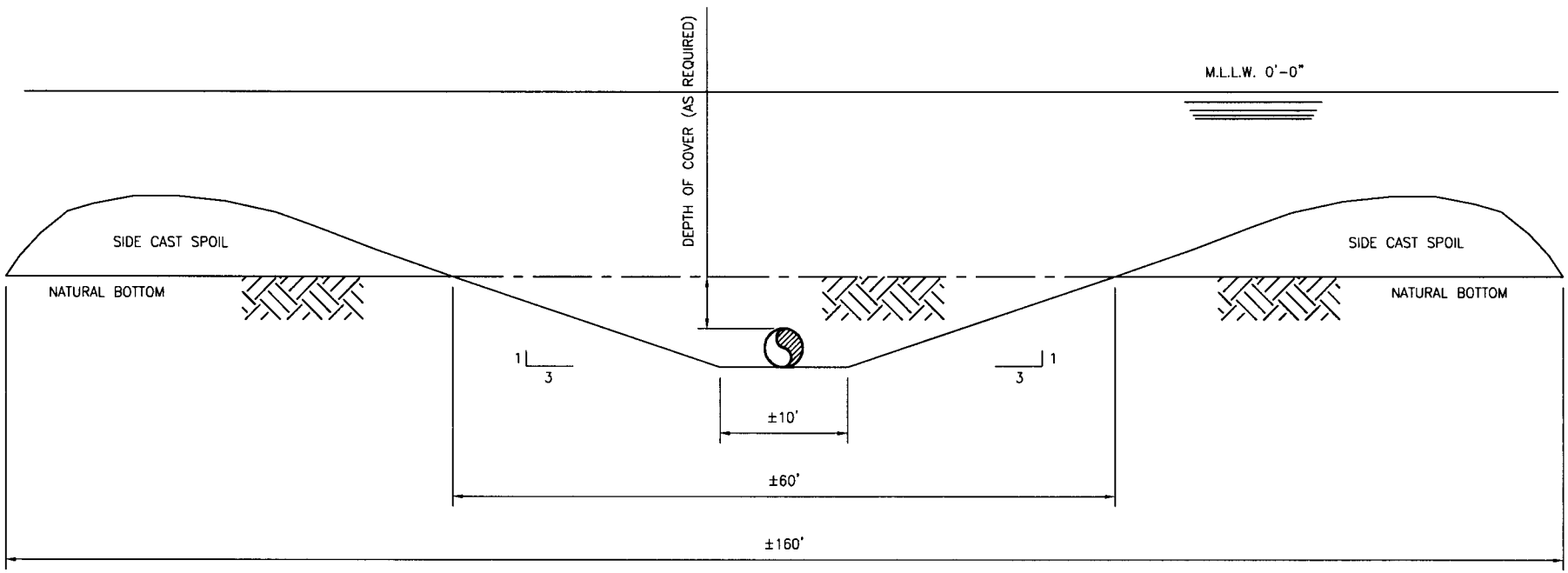
MAIN PASS ENERGY HUB
TYPICAL JETTED
PIPELINE TRENCH

DRAWN BY: R.C.E. DATE: 1-29-04

PCS PROJ. NO. 03156

DRAWING NUMBER PC-G-0130

02-10-04 8:43 MCMORAN\03156 OFFSHORE 4 G.J.D.



TYPICAL DREDGED TRENCH

NOT FOR CONSTRUCTION

FREEPORT-MCMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
E-mail: pcsinc@projectconsulting.com

SCALE: N.T.S.

MAIN PASS ENERGY HUB
TYPICAL
DREDGED PIPELINE TRENCH

DRAWN BY: R.C.E. DATE: 2-3-04

NO.	REVISION	DATE	APPR.
B	GENERAL REVISIONS	2-9-04	M.G.S.
A	PRELIMINARY	2-3-04	M.G.S.

PCS PROJ. NO. 03156

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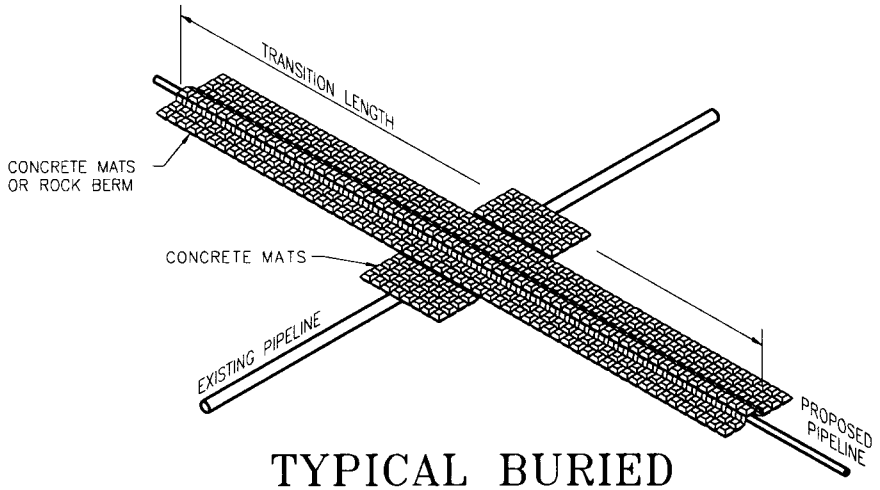
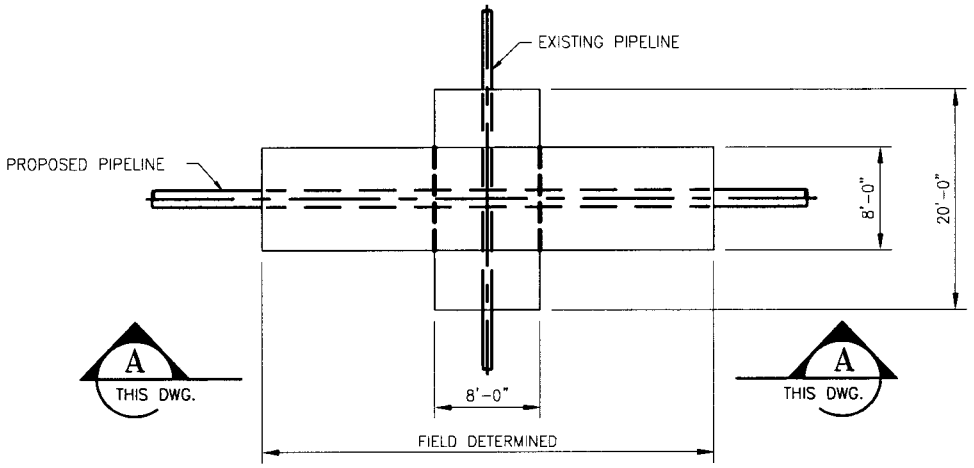


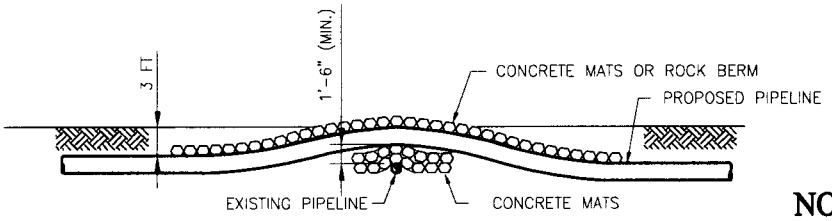
TYPICAL BURIED PIPELINE CROSSING

SCALE: N.T.S.



PLAN

N.T.S.



SECTION

SCALE: N.T.S.

A
THIS DWG.

NOT FOR CONSTRUCTION

FREEPORT-MCMORAN ENERGY

PROJECT CONSULTING SERVICES, INC.
3300 WEST ESPLANADE AVE., S., SUITE 500
METAIRIE, LA 70002-7406
(504) 833-5321 Fax (504) 833-4940
E-mail: pcsinc@projectconsulting.com

MAIN PASS ENERGY HUB
TYPICAL BURIED
PIPELINE CROSSING

SCALE: N.T.S.

NO.	REVISION	DATE	APPR.
B	GENERAL REVISIONS	2-9-04	M.G.S.
A	PRELIMINARY	2-2-04	M.G.S.

DRAWN BY: R.C.E. DATE: 1-29-04

PCS PROJ. NO. 03156

DRAWING NUMBER PC-G-0030

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