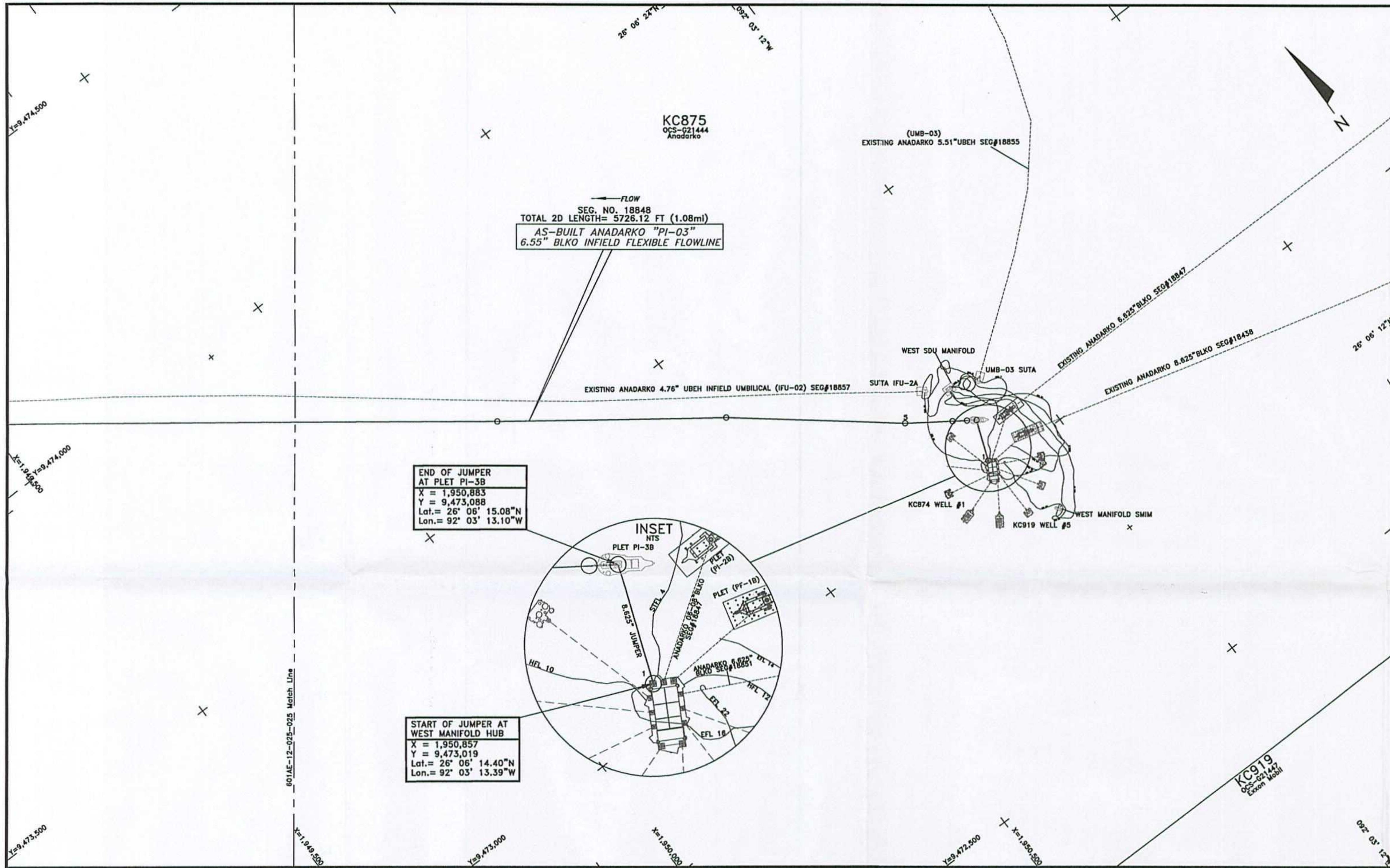
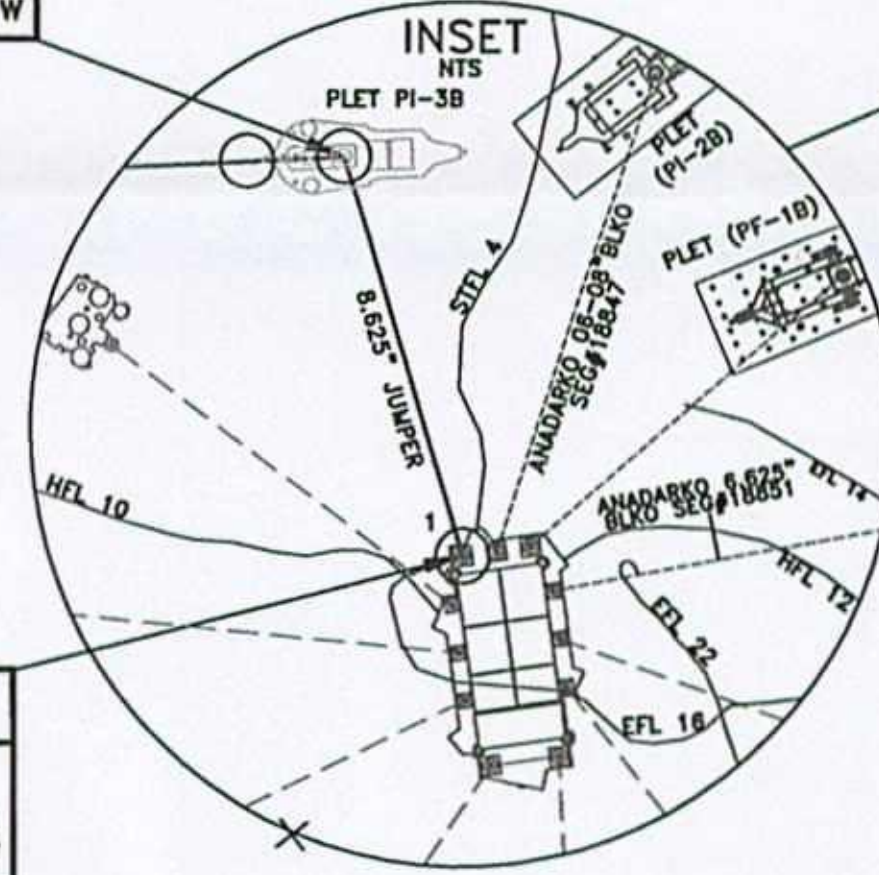


PLAN VIEW



END OF JUMPER AT PLET PI-3B  
 X = 1,950,883  
 Y = 9,473,088  
 Lat. = 26° 06' 15.08"N  
 Lon. = 92° 03' 13.10"W

START OF JUMPER AT WEST MANIFOLD HUB  
 X = 1,950,857  
 Y = 9,473,019  
 Lat. = 26° 06' 14.40"N  
 Lon. = 92° 03' 13.39"W



AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEGMENT#18848

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,950,857	9,473,019	START OF JUMPER AT WEST MANIFOLD HUB
2	1,950,883	9,473,088	END OF JUMPER AT PLET PI-3B
3	1,950,869	9,473,097	START OF BEND RESTRICTOR
4	1,950,849	9,473,111	END OF BEND RESTRICTOR
5	1,950,779	9,473,159	ROV FIX
6	1,950,538	9,473,354	ROV FIX
7	1,950,215	9,473,590	ROV FIX

NOTES

- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
- 2) SURVEYED COORDINATES TRANSFORMED FROM NAD83 (GPS DATUM) NADCON VERSION 2.1.
- 3) THIS DRAWING IS NOT FOR NAVIGATION. PIPELINES AND FEATURES IN THE IMMEDIATE VICINITY ARE OBTAINED FROM BOEM (BUREAU OF OCEAN ENERGY MANAGEMENT) & BSEE (BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT) DATABASE AND CLIENT PROVIDED DATA.
- 4) AS-BUILT SURVEY DATE: MARCH 30 AND APRIL 14, 2014

LEGEND

- AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEG#18848
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- KC875
- LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- GEOGRAPHICAL TICKS
- UTM TICKS
- WELLS

GEODESY

Survey Datum: NAD 27  
 Ellipsoid: Clarke 1866  
 Projection: Universal Transverse Mercator ZONE 15N  
 Longitude of Central Meridian: 93°W  
 False Easting (m): 500 000  
 False Northing (m): 0  
 Scale Factor of Central Meridian: 0.99960  
 Units: US Survey Feet

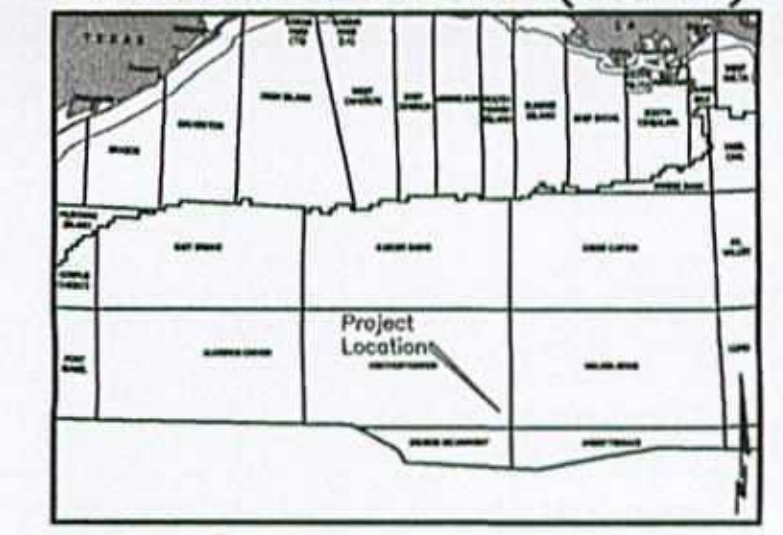
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



NATHAN EBY, R.P.L.S.  
 TEXAS REG #6198

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LOCATION PLAN (N.T.S.)

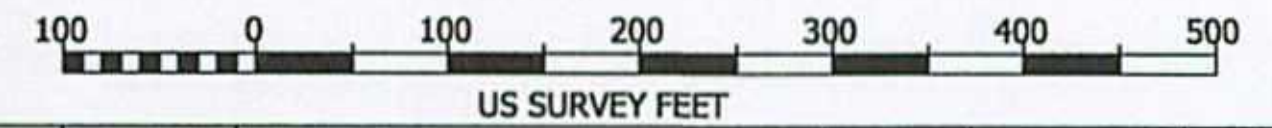


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LUCIUS DEVELOPMENT PROJECT  
 AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03)

SEGMENT#18848  
 KEATHLEY CANYON BLOCK 875  
 GULF OF MEXICO

Scale 1" = 100'



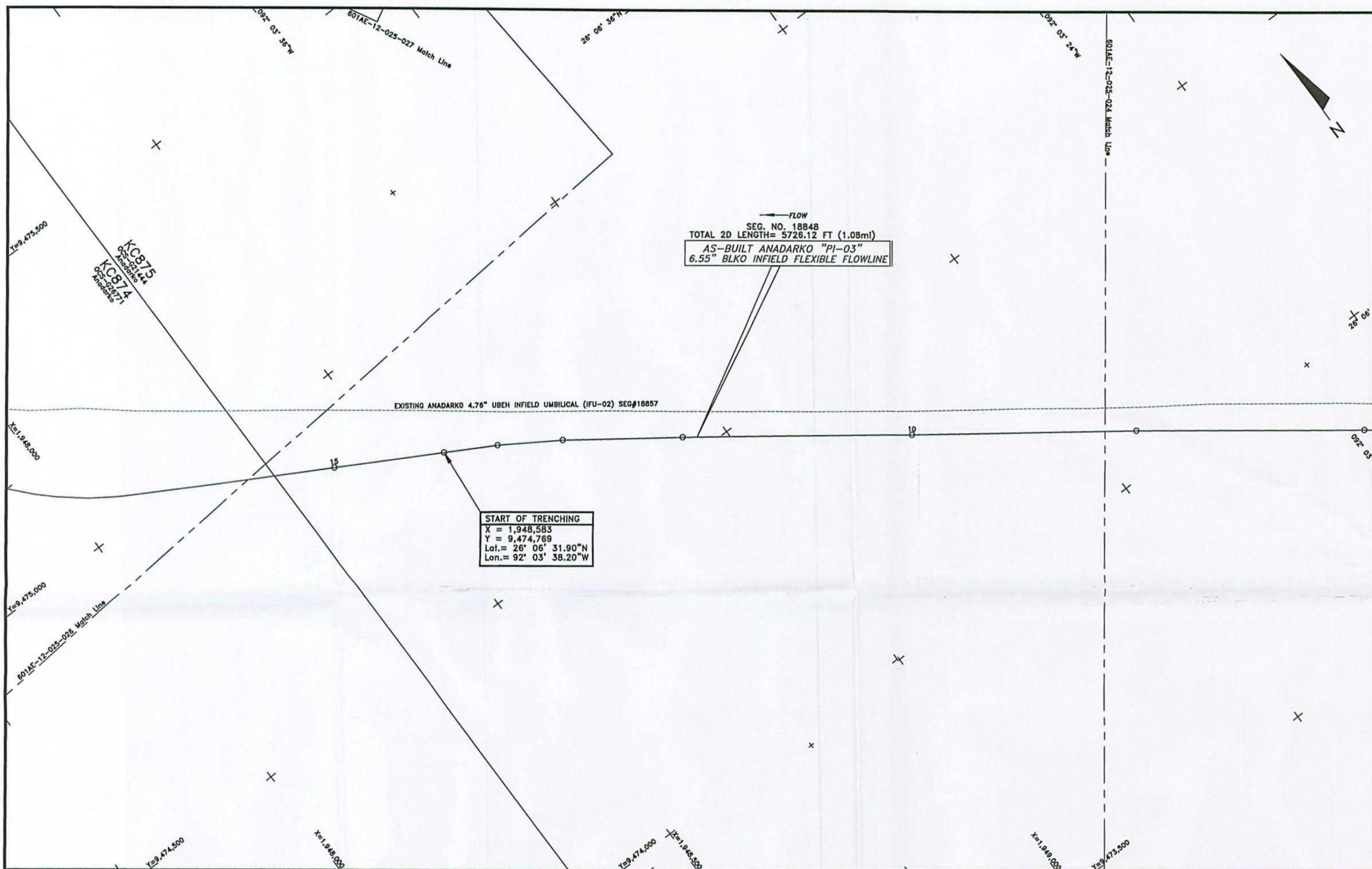
Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/03/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: March 30 and April 14, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-024	Sheet 001	Of 004
Plot Size ANSI D			



PLAN VIEW



START OF TRENCHING  
 X = 1,948,583  
 Y = 9,474,769  
 Lat. = 26° 06' 31.90"N  
 Lon. = 92° 03' 38.20"W

FLOW  
 SEG. NO. 18848  
 TOTAL 2D LENGTH = 5726.12 FT (1.08mi)  
 AS-BUILT ANADARKO "PI-03"  
 6.55" BLKO INFIELD FLEXIBLE FLOWLINE

AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEGMENT#18848

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
8	1,949,895	9,473,830	ROV FIX
9	1,949,574	9,474,069	ROV FIX
10	1,949,255	9,474,302	ROV FIX
11	1,948,933	9,474,539	ROV FIX
12	1,948,762	9,474,661	ROV FIX
13	1,948,666	9,474,723	ROV FIX
14	1,948,583	9,474,769	START OF TRENCHING
15	1,948,413	9,474,864	ROV FIX

NOTES

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- 2) SURVEYED COORDINATES TRANSFORMED FROM NAD83 (GPS DATUM) NADCON VERSION 2.1.
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- 4) AS-BUILT SURVEY DATE: MARCH 30 AND APRIL 14, 2014

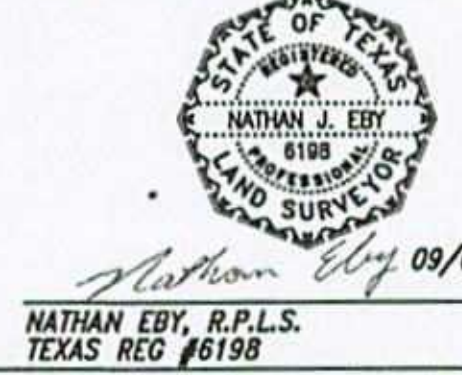
LEGEND

- AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEG#18848
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- KC875 LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- GEOGRAPHICAL TICKS
- UTM TICKS
- WELLS

GEODESY

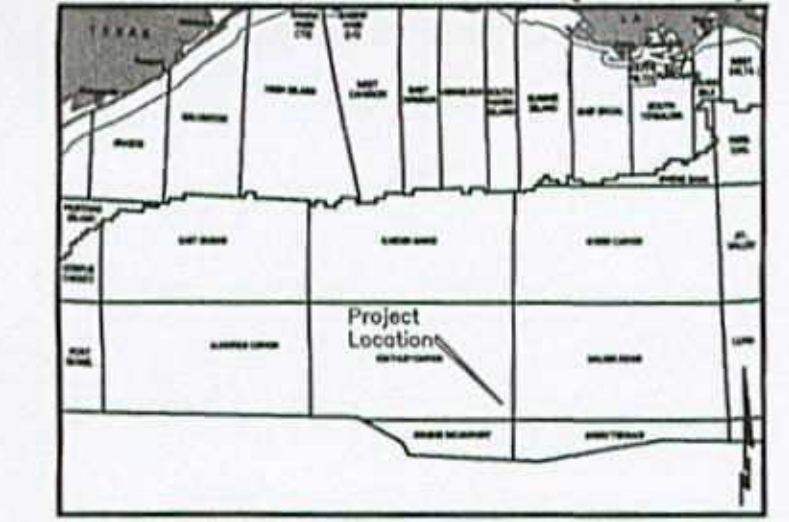
Survey Datum: NAD 27  
 Ellipsoid: Clarke 1866  
 Projection: Universal Transverse Mercator ZONE 15N  
 Longitude of Central Meridian: 95°W  
 False Easting (m): 500 000  
 False Northing (m): 0  
 Scale Factor of Central Meridian: 0.99960  
 Units: US Survey Feet

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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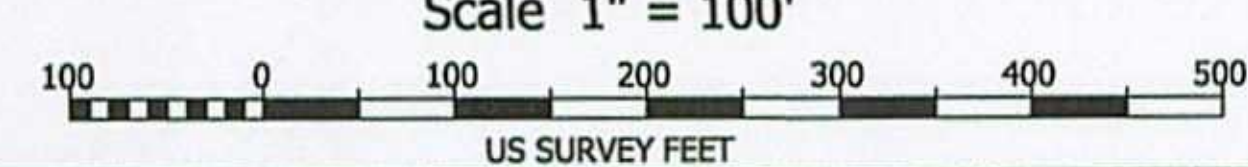
LOCATION PLAN (N.T.S)



**UTEC**  
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 Website www.utecsurgery.com

LUCIUS DEVELOPMENT PROJECT  
 AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03)  
 SEGMENT#18848

KEATHLEY CANYON BLOCK 875  
 GULF OF MEXICO

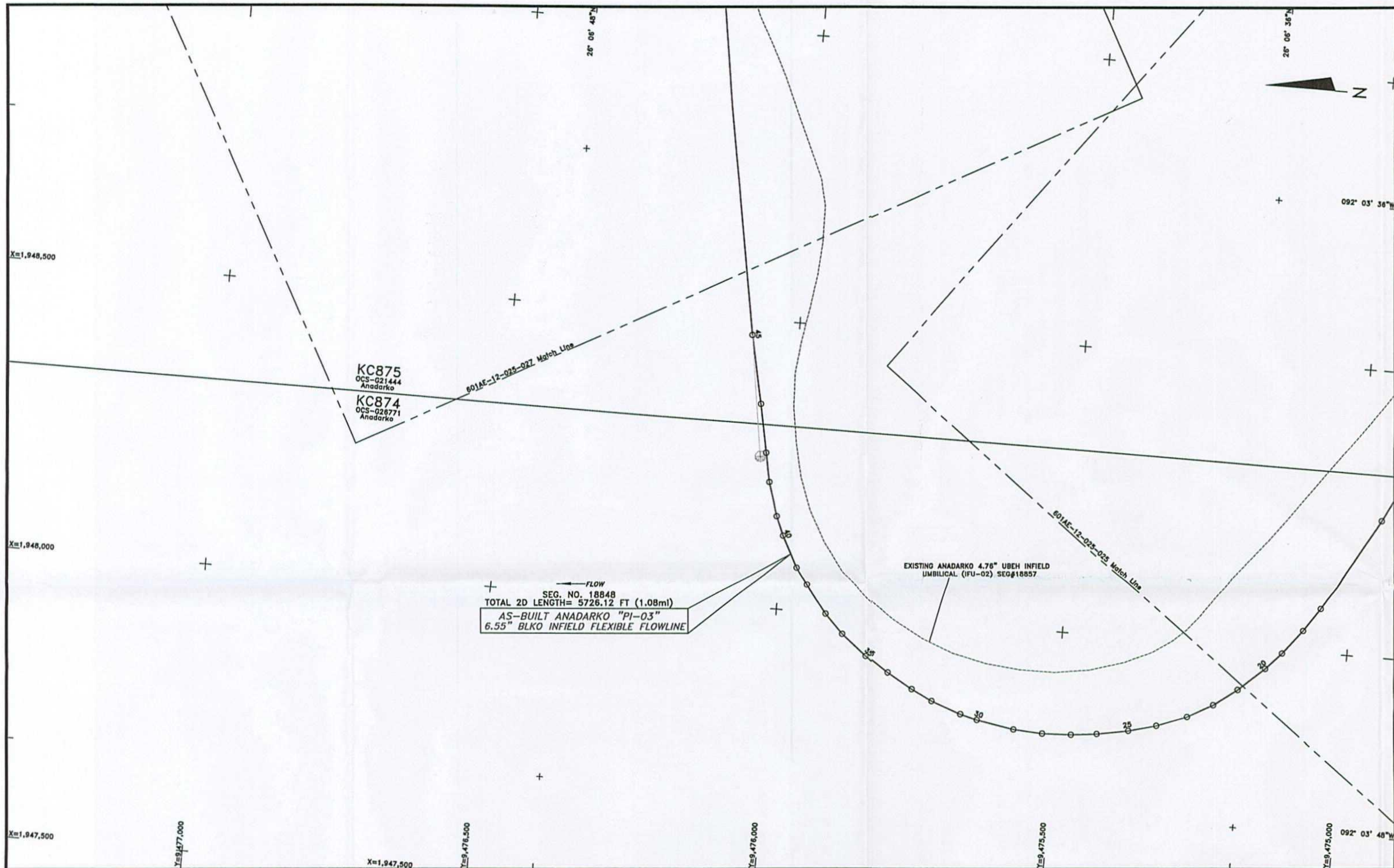


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/03/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: March 30 and April 14, 2014 Survey Vessel: GLOBAL ORION  
 UTEC Ref. No. 601AE-12-025 UTEC Drawing No. 601AE-12-025-025 Sheet 002 Of 004  
 Plot Size ANSI D



PLAN VIEW



AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEGMENT#18848

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION	POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
16	1,948,242	9,474,959	ROV FIX	41	1,948,164	9,476,013	ROV FIX
17	1,948,078	9,475,052	ROV FIX	42	1,948,222	9,476,031	ROV FIX
18	1,948,037	9,475,080	ROV FIX	43	1,948,272	9,476,041	ROV FIX
19	1,947,994	9,475,114	ROV FIX	44	1,948,355	9,476,056	ROV FIX
20	1,947,966	9,475,142	ROV FIX	45	1,948,473	9,476,081	RIGGING-YALE GRIP
21	1,947,926	9,475,186	ROV FIX				
22	1,947,896	9,475,227	ROV FIX				
23	1,947,872	9,475,272	ROV FIX				
24	1,947,853	9,475,324	ROV FIX				
25	1,947,840	9,475,372	ROV FIX				
26	1,947,830	9,475,427	ROV FIX				
27	1,947,825	9,475,471	ROV FIX				
28	1,947,823	9,475,522	ROV FIX				
29	1,947,826	9,475,572	ROV FIX				
30	1,947,838	9,475,637	ROV FIX				
31	1,947,845	9,475,666	ROV FIX				
32	1,947,854	9,475,719	ROV FIX				
33	1,947,881	9,475,756	ROV FIX				
34	1,947,906	9,475,800	ROV FIX				
35	1,947,931	9,475,838	ROV FIX				
36	1,947,966	9,475,882	ROV FIX				
37	1,947,999	9,475,914	ROV FIX				
38	1,948,048	9,475,951	ROV FIX				
39	1,948,077	9,475,971	ROV FIX				
40	1,948,131	9,475,999	ROV FIX				

NOTES

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- 4) AS-BUILT SURVEY DATE: MARCH 30 AND APRIL 14, 2014

LEGEND

- AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEG#18848
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- KC875 LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- GEOGRAPHICAL TICKS
- UTM TICKS
- WELLS

GEODESY

Survey Datum: NAD 27  
 Ellipsoid: Clarke 1866  
 Projection: Universal Transverse Mercator ZONE 15N  
 Longitude of Central Meridian: 93°W  
 False Easting (m): 500 000  
 False Northing (m): 0  
 Scale Factor of Central Meridian: 0.99980  
 Units: US Survey Feet

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



NATHAN EBY, R.P.L.S.  
 TEXAS REG #6198

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LOCATION PLAN (N.T.S)

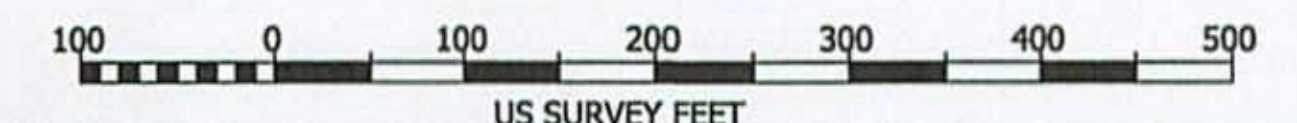


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LUCIUS DEVELOPMENT PROJECT  
 AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03)  
 SEGMENT#18848

KEATHLEY CANYON BLOCK 875  
 GULF OF MEXICO

Scale 1" = 100'

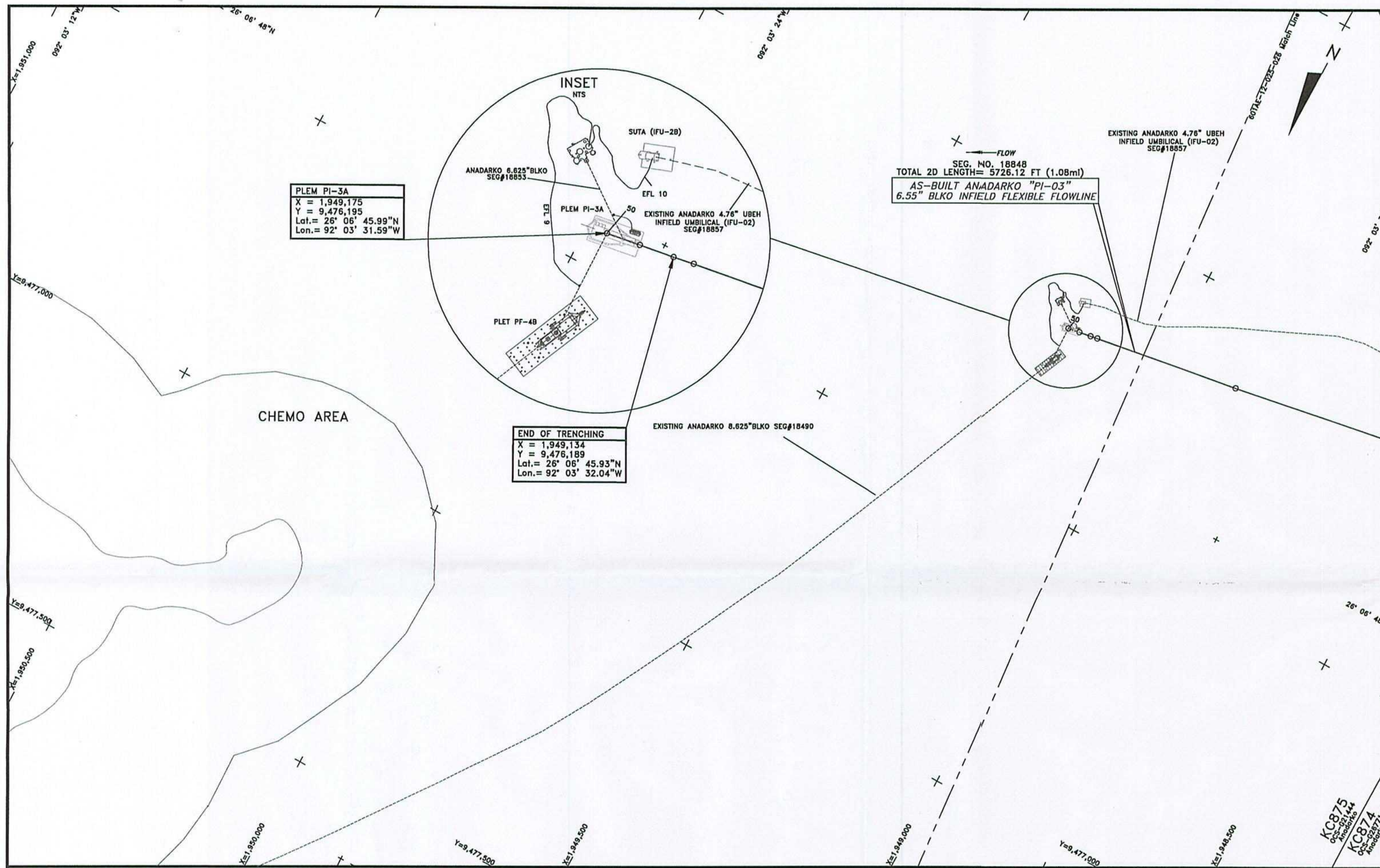


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/03/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	EG	JL

Survey Dates: March 30 and April 14, 2014		Survey Vessel: GLOBAL ORION	
UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-026	Sheet	Of
Plot Size ANSI D		003	004



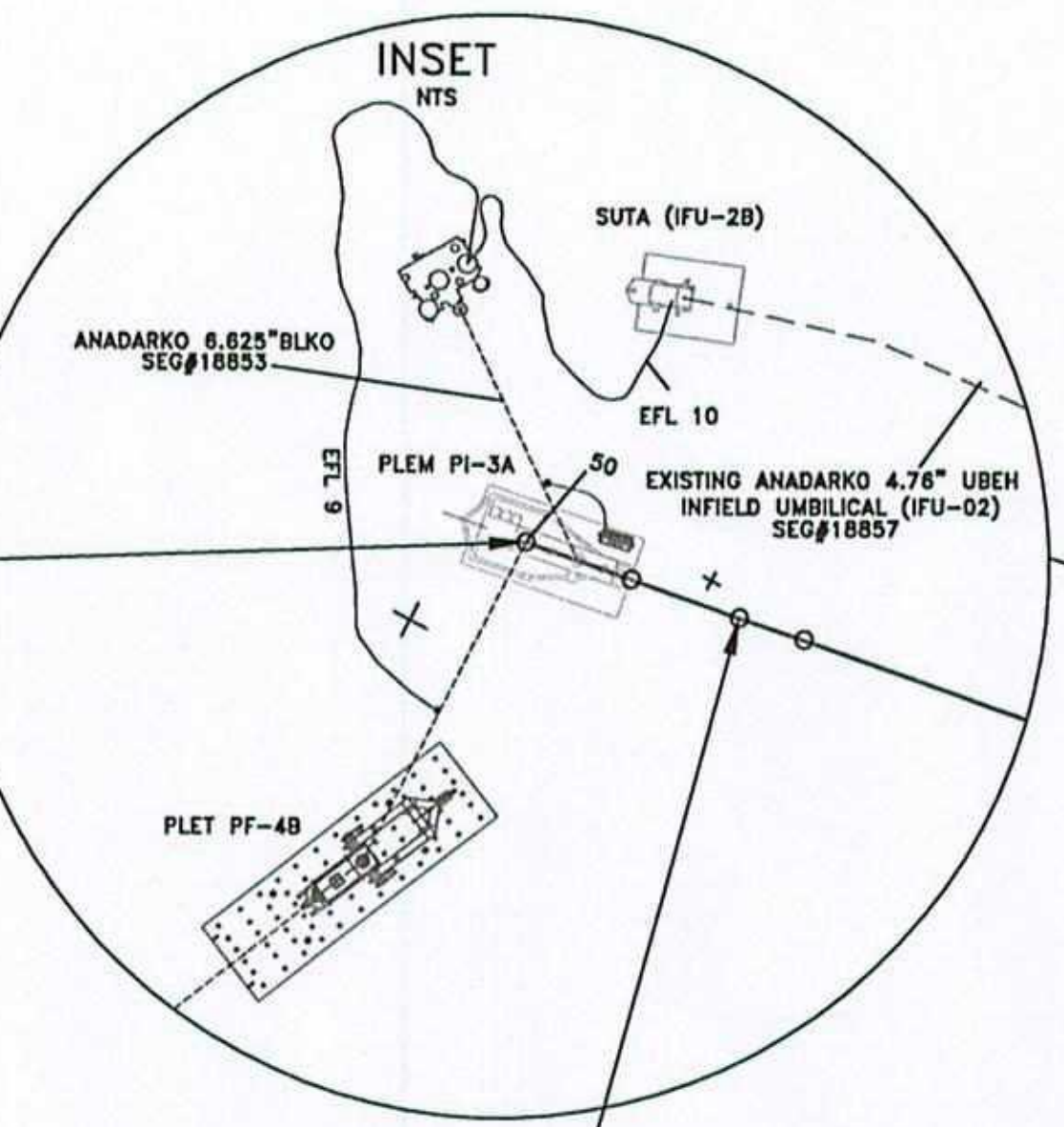
PLAN VIEW



PLEM PI-3A  
 X = 1,949,175  
 Y = 9,476,195  
 Lat. = 26° 06' 45.99"N  
 Lon. = 92° 03' 31.59"W

END OF TRENCHING  
 X = 1,949,134  
 Y = 9,476,189  
 Lat. = 26° 06' 45.93"N  
 Lon. = 92° 03' 32.04"W

SEG. NO. 18848  
 TOTAL 2D LENGTH = 5726.12 FT (1.08mi)  
 AS-BUILT ANADARKO "PI-03"  
 6.55" BLKO INFIELD FLEXIBLE FLOWLINE



- NOTES**
- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS LD2 ULTRA DOPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DOPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONARDYNE FUSION LBL (LONG BASELINE) ACOUSTIC POSITIONING.
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  - 4) AS-BUILT SURVEY DATE: MARCH 30 AND APRIL 14, 2014

**LEGEND**

	AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEG#18848
	EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
	PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
	UTEC AS-LAID FLYING LEADS
	KC875 LEASE BLOCK BOUNDARIES
	PROPOSED STRUCTURES
	EXISTING STRUCTURES
	UTEC AS-FOUND/AS-BUILT STRUCTURES
	GEOGRAPHICAL TICKS
	UTM TICKS
	WELLS

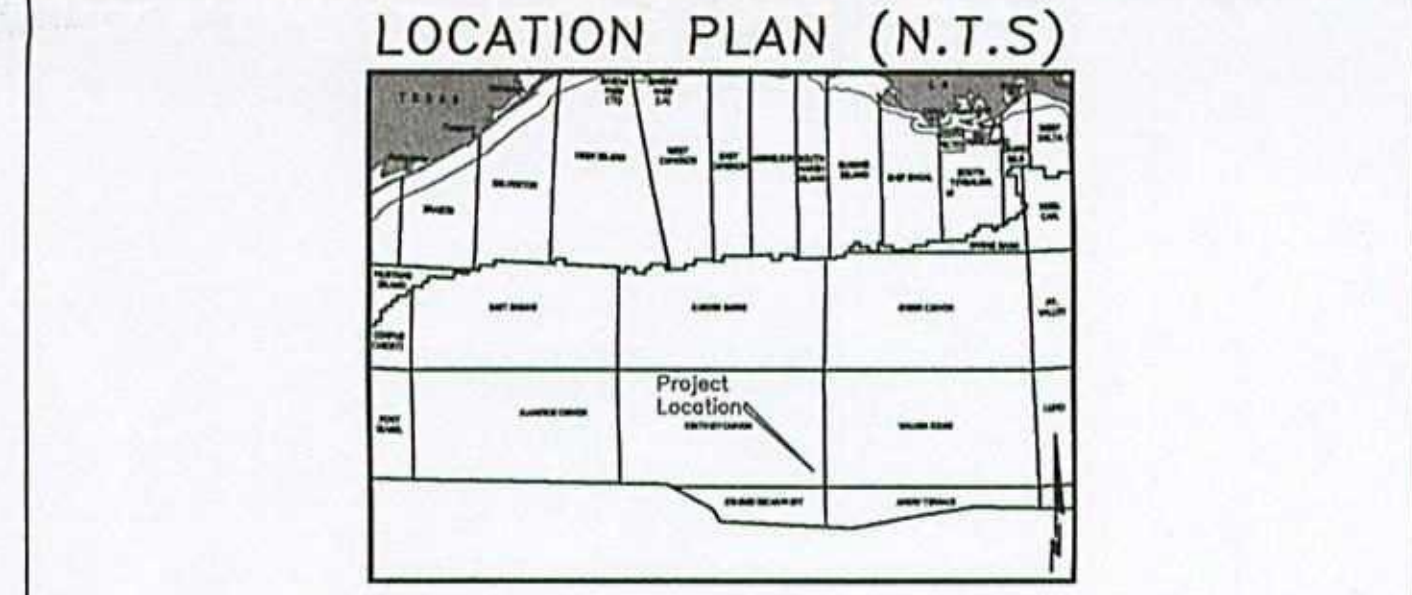
**GEODESY**

Survey Datum: NAD 27  
 Ellipsoid: Clarke 1866  
 Projection: Universal Transverse Mercator ZONE 15N  
 Longitude of Central Meridian: 93°W  
 False Easting (m): 500 000  
 False Northing (m): 0  
 Scale Factor of Central Meridian: 0.99980  
 Units: US Survey Feet

CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.

NATHAN EBY, R.P.L.S.  
 TEXAS REG #6198  
 09/03/14

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AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03) SEGMENT#18848

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
46	1,948,867	9,476,148	ROV FIX
47	1,949,122	9,476,187	START OF BEND RESTRICTOR
48	1,949,134	9,476,189	END OF TRENCHING
49	1,949,155	9,476,192	END OF BEND RESTRICTOR
50	1,949,175	9,476,195	PLEM PI-3A

2D LENGTH OF SURVEY POINTS 1 THROUGH 50:  
 5,726.12' = 1.08 MILES

**LUCIUS DEVELOPMENT PROJECT**  
 AS-BUILT ANADARKO 6.55" BLKO INFIELD FLEXIBLE FLOWLINE (PI-03)  
 SEGMENT#18848  
 KEATHLEY CANYON BLOCK 875  
 GULF OF MEXICO

Scale 1" = 100'

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Survey Dates: March 30 and April 14, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-027	Sheet 004	Of 004
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