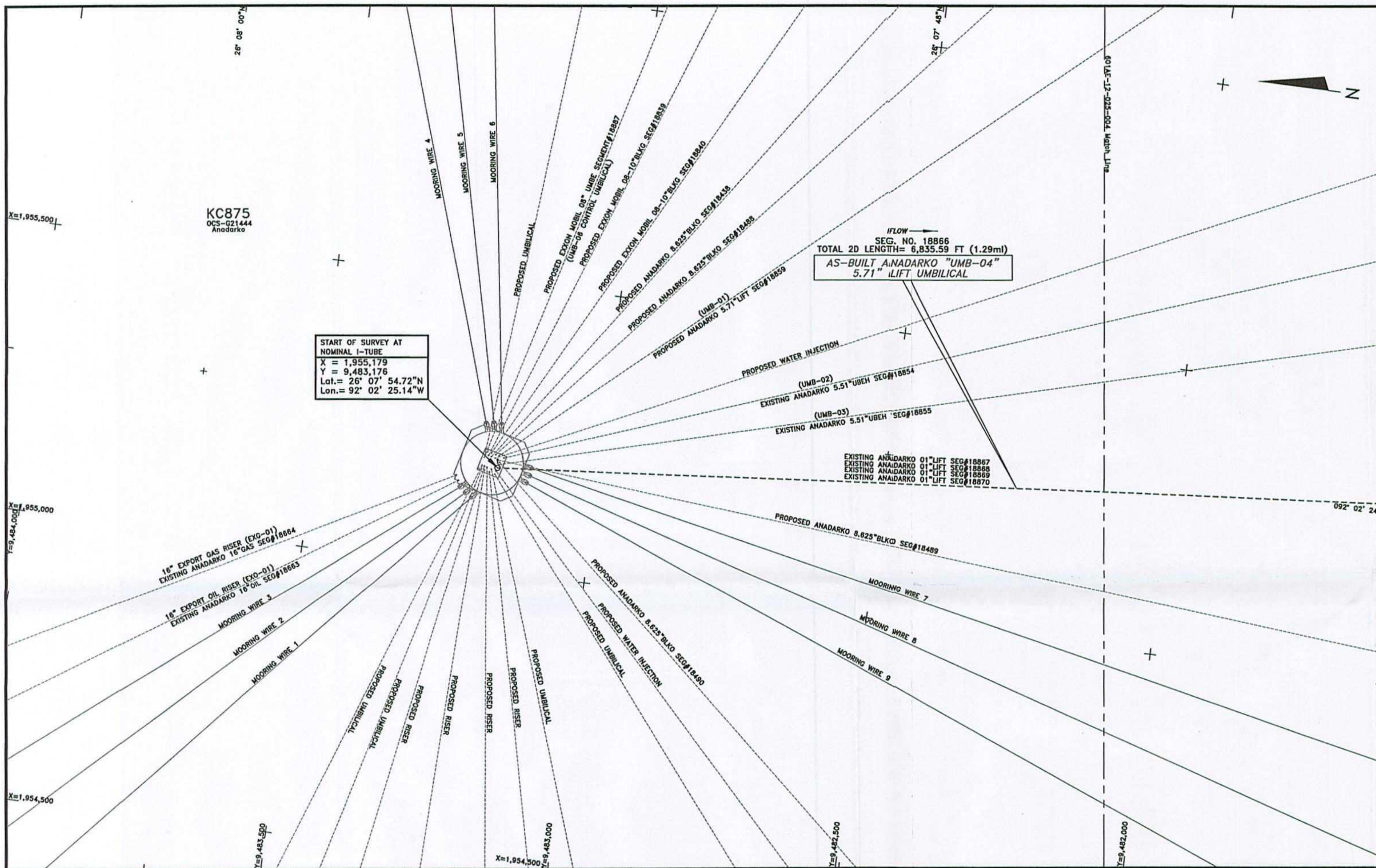


PLAN VIEW



IFLOW
SEG. NO. 18866
TOTAL 2D LENGTH = 6,835.59 FT (1.29mi)
AS-BUILT ANADARKO "UMB-04"
5.71" LIFT UMBILICAL

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEGMENT#18866

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,955,179	9,483,176	NOMINAL I-TUBE

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: FEBRUARY 1ST & 5TH, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEG#18866
- - - CATENARY
- - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - UTEC AS-LAID FLYING LEADS
- - - MOORING WIRES
- KC875
- ▭ LEASE BLOCK BOUNDARIES
- ▭ PROPOSED STRUCTURES
- ▭ EXISTING STRUCTURES
- ▭ UTEC AS-FOUND/AS-BUILT STRUCTURES
- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o¹ 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: 0.99980
Units: US Survey Feet

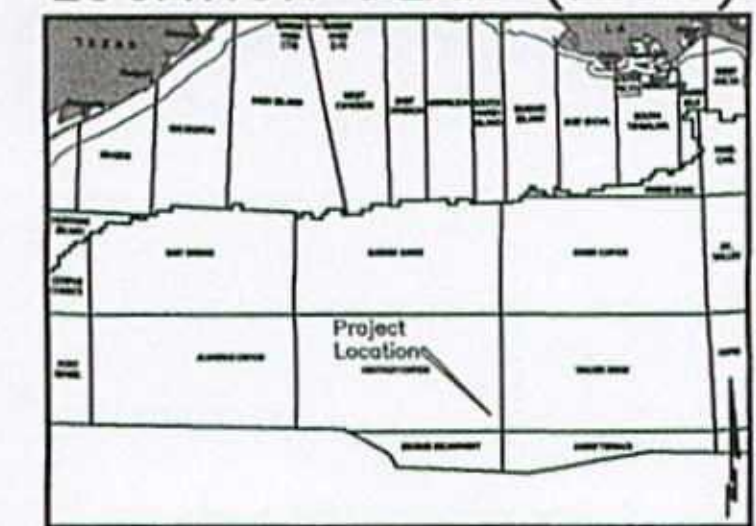
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorized use of this document in any form whatsoever is undertaken entirely at the user's risk.

LOCATION PLAN (N.T.S)

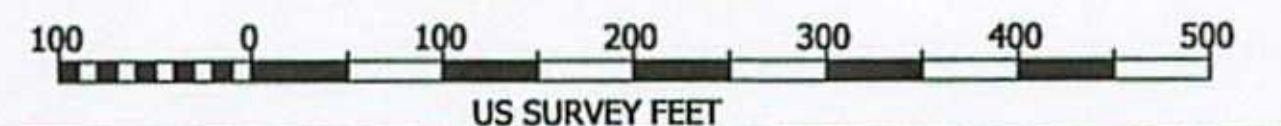


7240 BRITTMORE RD. SUITE 110
HOUSTON, TEXAS 77041
Tel 713-984-8688
Fax 713-984-8683
Website www.utecsurvey.com

LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)

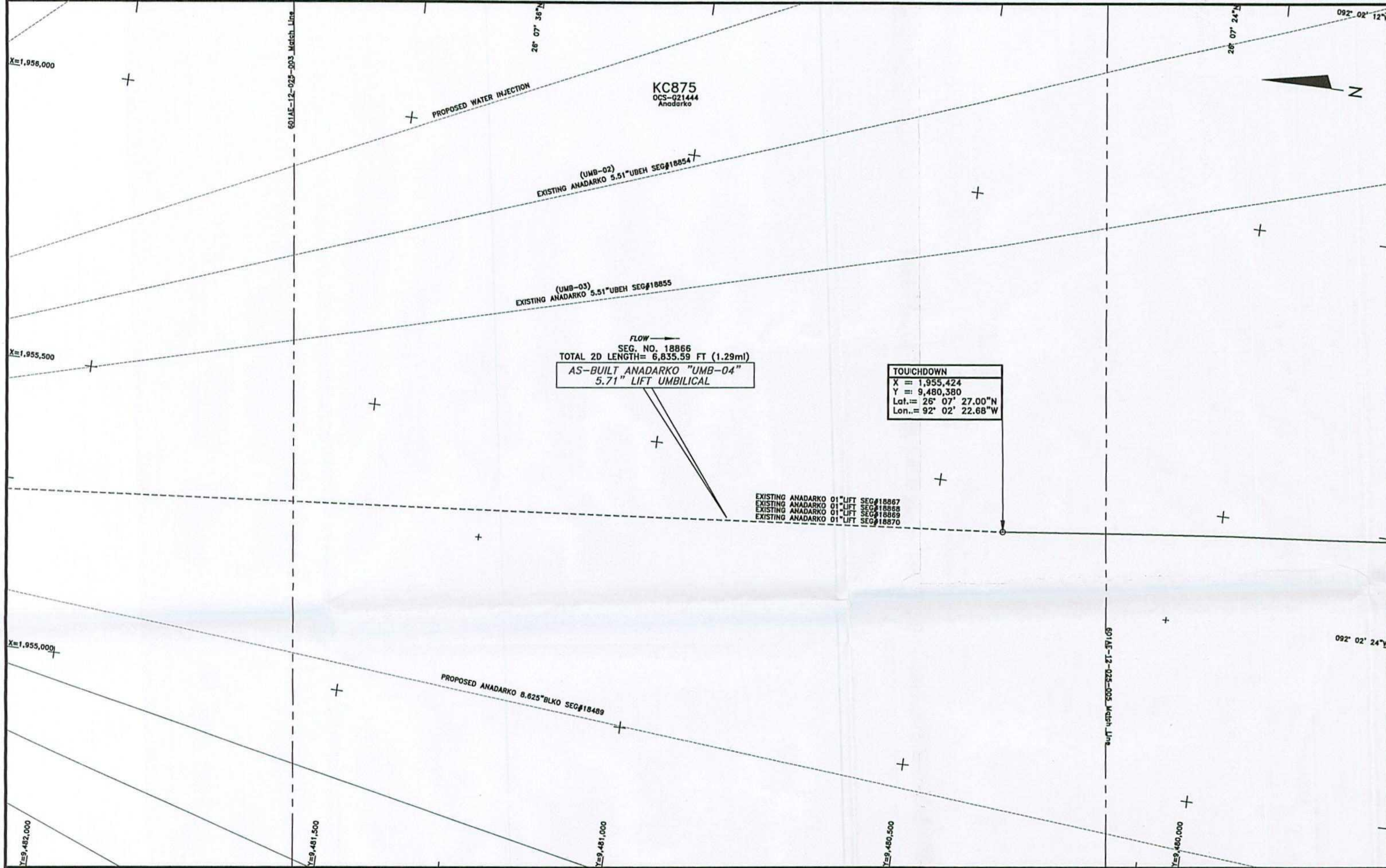
SEGMENT#18866
KEATHLEY CANYON BLOCK 875
GULF OF MEXICO

Scale 1" = 100'



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

Survey Dates: FEBRUARY 1ST & 5TH, 2014		Survey Vessel: GLOBAL ORION	
UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-003	Sheet	Of
Plot Size ANSI D		001	004



AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEGMENT#18866

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
2	1,955,424	9,480,380	TOUCHDOWN

- 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: FEBRUARY 1ST & 5TH, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEG#18866
- CATENARY
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- MOORING WIRES
- KC875
- LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- GEOGRAPHICAL TICKS
- UTM TICKS
- WELLS

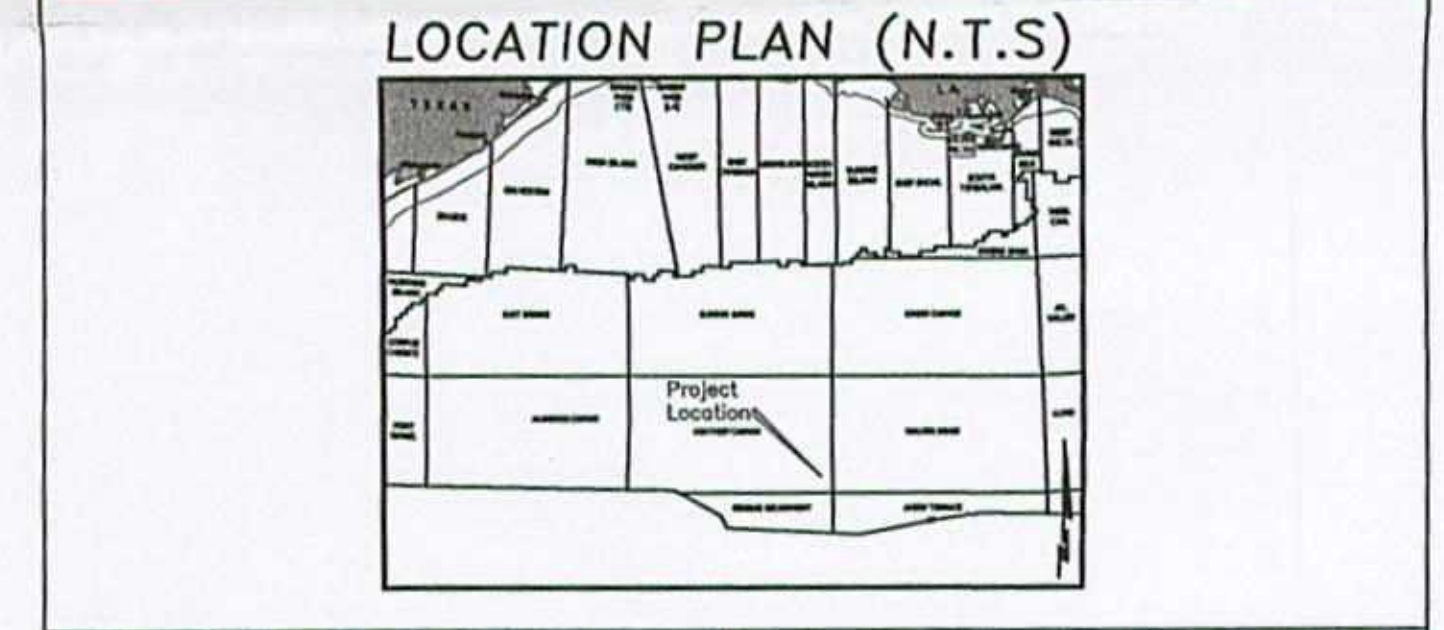
GEODESY

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 at 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

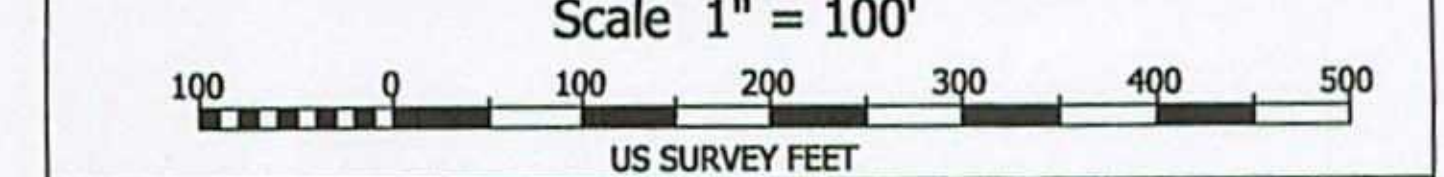
This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is undertaken entirely at the user's risk.



7240 BRITTMOORE RD. SUITE 110
 HOUSTON, TEXAS 77041
 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurvey.com

TECHNIP USA, Inc.

LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
 SEGMENT#18866
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO
 Scale 1" = 100'

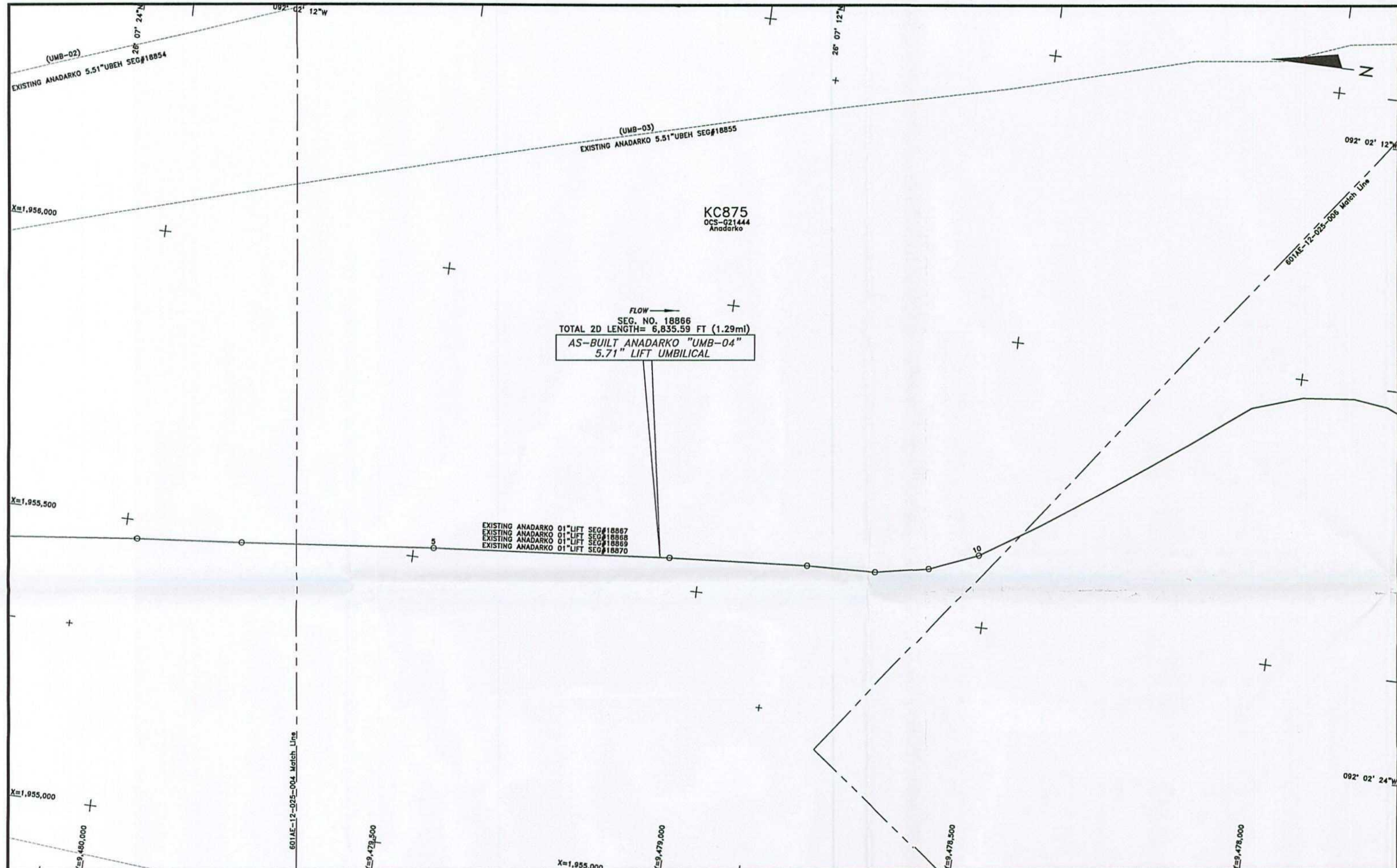


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL

Survey Dates: FEBRUARY 1ST & 5TH, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 004	Sheet 002	Of 004
Plot Size ANSI D			

PLAN VIEW



AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEGMENT#18866

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
3	1,955,468	9,479,979	ROV FIX
4	1,955,485	9,479,798	START OF MUD ANCHOR SECTION
5	1,955,519	9,479,463	END OF MUD ANCHOR SECTION
6	1,955,555	9,479,053	ROV FIX
7	1,955,571	9,478,814	ROV FIX
8	1,955,575	9,478,694	ROV FIX
9	1,955,593	9,478,605	ROV FIX
10	1,955,628	9,478,521	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: FEBRUARY 1ST & 5TH, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEG#18866
- CATENARY
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- MOORING WIRES
- 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

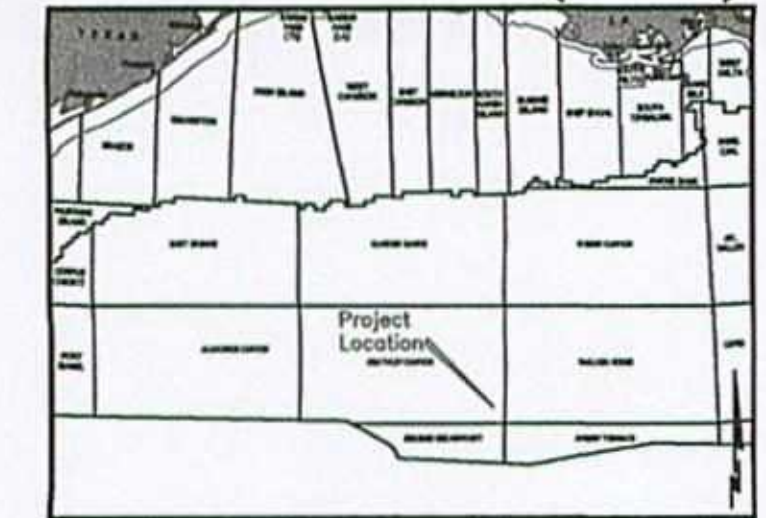
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



Nathan J. Eby 09/08/14
 NATHAN EBY, R.P.L.S.
 TEXAS REG #6198

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorized use of this document in any form whatsoever is undertaken entirely at the user's risk.

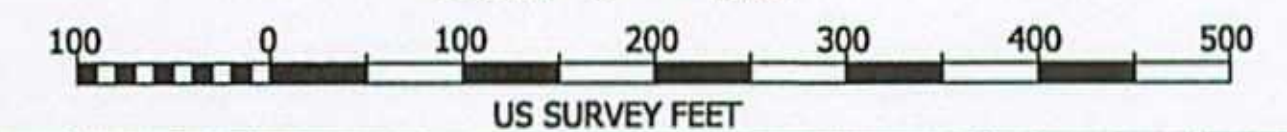
LOCATION PLAN (N.T.S)



7240 BRITTMORE RD. SUITE 110
 HOUSTON, TEXAS 77041
 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurvey.com

LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
 SEGMENT#18866
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

Scale 1" = 100'

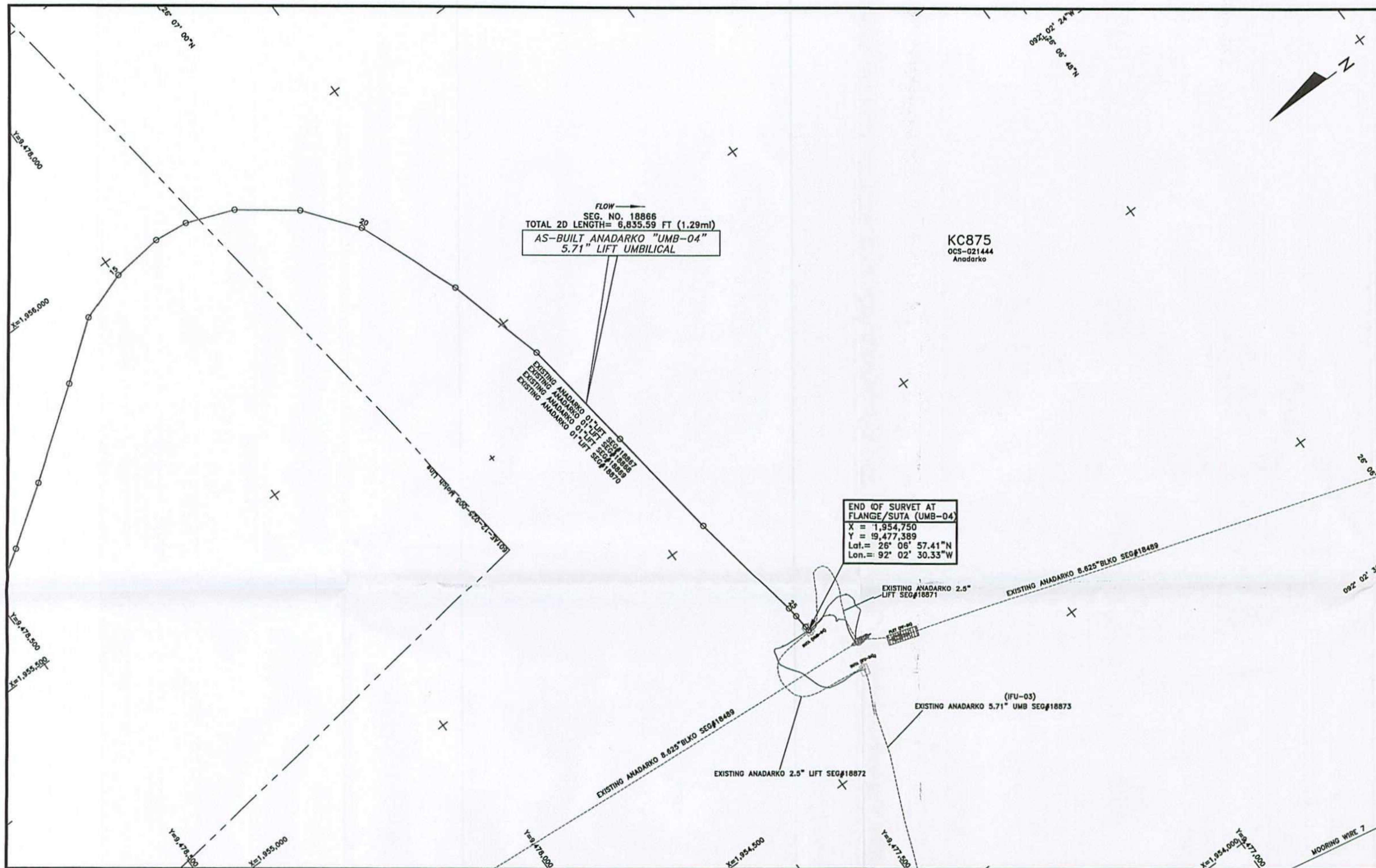


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL

Survey Dates: FEBRUARY 1ST & 5TH, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 005	Sheet 003	Of 004
Plot Size ANSI D			

PLAN VIEW



FLOW →
 SEG. NO. 18866
 TOTAL 2D LENGTH= 6,835.59 FT (1.29mi)
 AS-BUILT ANADARKO "UMB-04"
 5.71" LIFT UMBILICAL

KC875
 OCS-021444
 Anadarko

END OF SURVET AT
 FLANGE/SUTA (UMB-04)
 X = 1,954,750
 Y = 9,477,389
 Lat.= 26° 06' 57.41"N
 Lon.= 92° 02' 30.33"W

AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEGMENT#18866

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
11	1,955,693	9,478,419	ROV FIX
12	1,955,761	9,478,321	ROV FIX
13	1,955,867	9,478,175	ROV FIX
14	1,955,940	9,478,080	ROV FIX
15	1,955,969	9,477,995	ROV FIX
16	1,955,978	9,477,905	ROV FIX
17	1,955,971	9,477,846	ROV FIX
18	1,955,938	9,477,763	ROV FIX
19	1,955,869	9,477,672	ROV FIX
20	1,955,781	9,477,603	ROV FIX
21	1,955,600	9,477,531	ROV FIX
22	1,955,424	9,477,483	ROV FIX
23	1,955,217	9,477,454	ROV FIX
24	1,955,008	9,477,427	ROV FIX
25	1,954,801	9,477,394	ROV FIX
26	1,954,782	9,477,392	START OF BEND RESTRICTOR
27	1,954,758	9,477,390	END OF BEND RESTRICTOR
28	1,954,750	9,477,389	FLANGE/SUTA (UMB-04)

2D LENGTH OF SURVEY POINTS 2 THROUGH 28:
 4,028.98' = 0.76 MILES

NOTES

- 1) UMBILICAL COORDINATES ARE THE POSITIONS OF THE R.O.V. (REMOTELY OPERATED VEHICLE) LOCATED AT THE POINTS USING VERIPOS L2 ULTRA DGPS RECEIVING SPOTBEAM CORRECTIONS, VERIPOS STANDARD DGPS RECEIVING INMARSAT CORRECTIONS POSITIONING AND SONAR/DYNE 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: FEBRUARY 1ST & 5TH, 2014

LEGEND

- AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04) SEG#18866
- - - - CATENARY
- - - - EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- - - - PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-LAID FLYING LEADS
- MOORING WIRES
- KC875
- LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o 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 J. Eby 09/08/14
 NATHAN EBY, R.P.L.S.
 TEXAS REG #6198

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is undertaken entirely at the user's risk.

LOCATION PLAN (N.T.S)

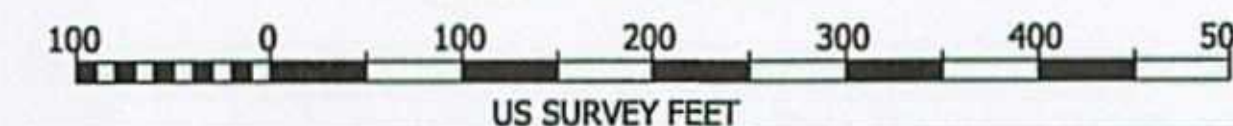


7240 BRITTMORE RD. SUITE 110
 HOUSTON, TEXAS 77041
 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurvey.com

LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
 SEGMENT#18866

KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

Scale 1" = 100'



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

Survey Dates: FEBRUARY 1ST & 5TH, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 006	Sheet 004	Of 004
Plot Size ANSI D			