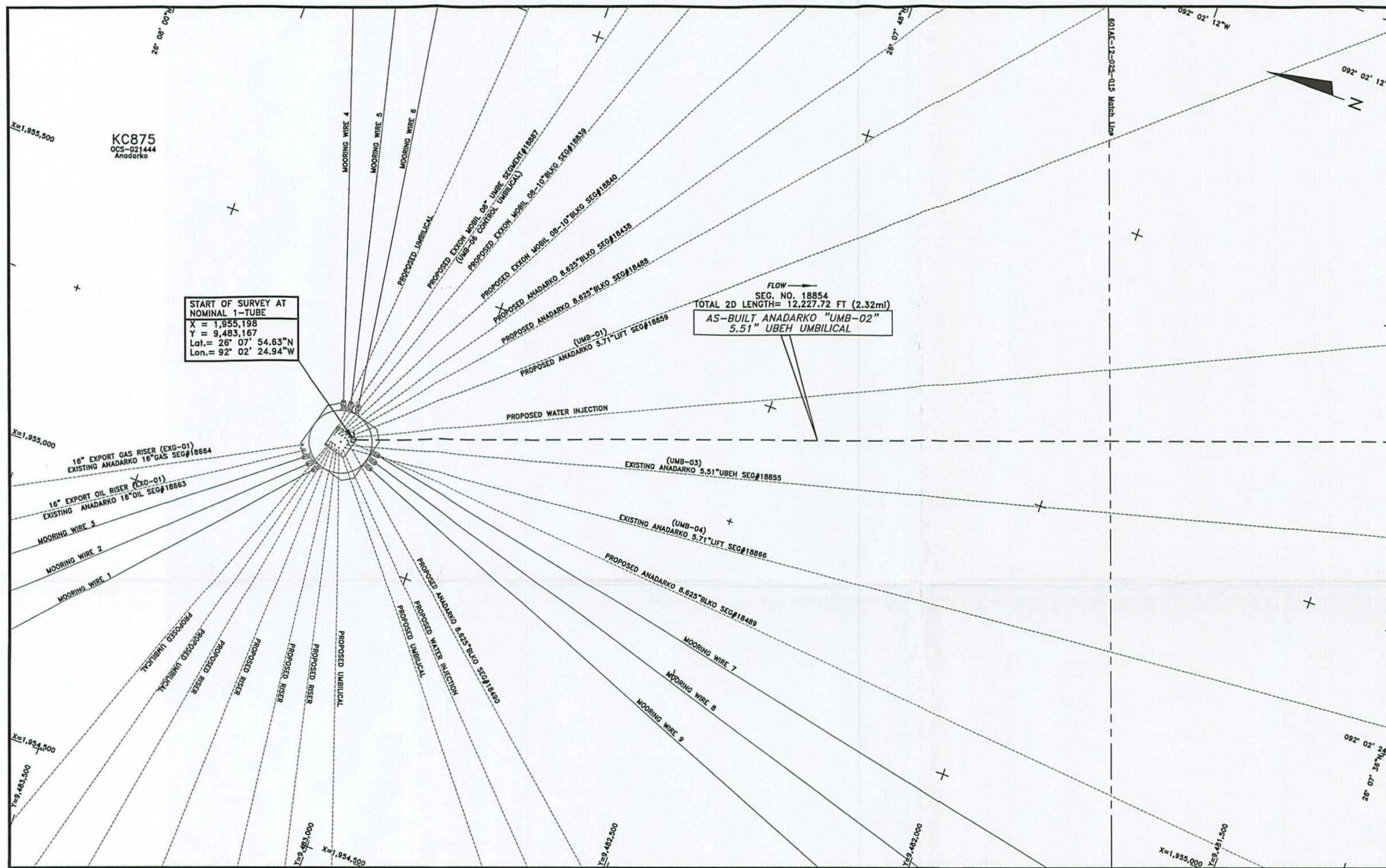


PLAN VIEW



START OF SURVEY AT
NOMINAL 1-TUBE
X = 1,955,198
Y = 9,483,167
Lat. = 26° 07' 54.63"N
Lon. = 92° 02' 24.94"W

SEG. NO. 18854
TOTAL 2D LENGTH = 12,227.72 FT (2.32mi)
AS-BUILT ANADARKO "UMB-02"
5.51" UBEH UMBILICAL

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: JANUARY 30 & FEBRUARY 18, 19, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- CATENARY
- EXISTING PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- PROPOSED PIPELINES/UMBILICALS/FLYING LEADS/JUMPERS
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- MOORING WIRES
- KC875
- LEASE BLOCK BOUNDARIES
- PROPOSED STRUCTURES
- EXISTING STRUCTURES
- UTEC AS-FOUND/AS-BUILT STRUCTURES
- GEOGRAPHICAL TICKS
- UTM TICKS
- WELLS

GEODESY

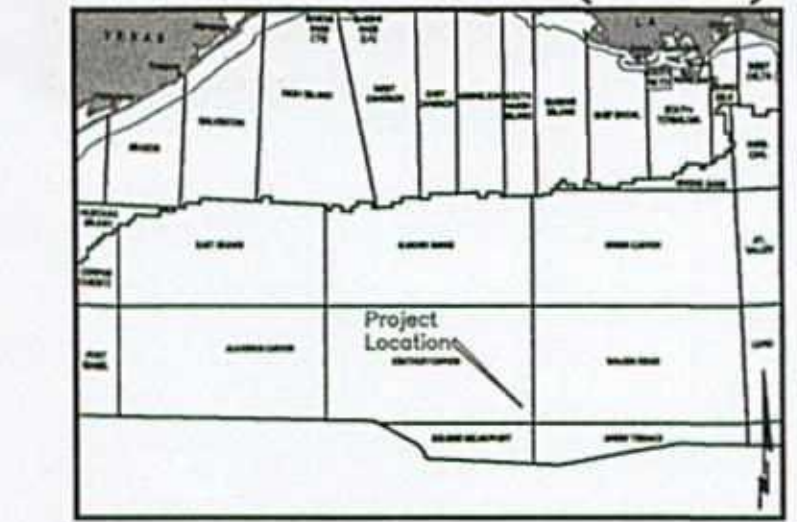
Survey Datum: NAD 27
Ellipsoid: Clarke 1886
Projection: Universal Transverse Mercator ZONE 15N
Longitude of Central Meridian: 93°W
False Easting (m): 500 000
False Northing (m): 0
Scale Factor at Central Meridian: 0.99960
Units: US Survey Feet

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



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LOCATION PLAN (N.T.S)



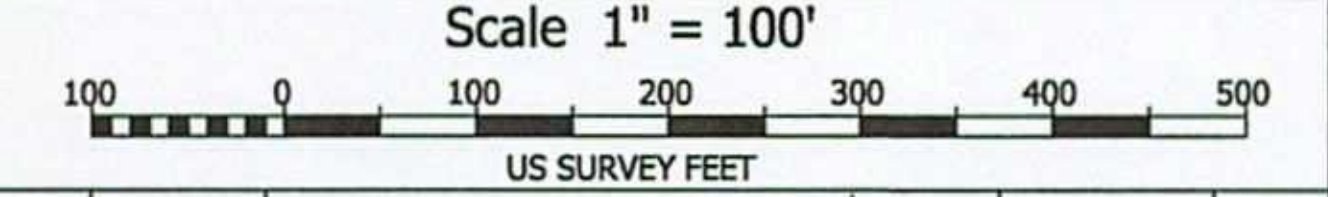
7240 BRITTMORE RD. SUITE 110
HOUSTON, TEXAS 77041
Tel 713-984-8688
Fax 713-984-8683
Website www.utecsurvey.com

AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
1	1,955,198	9,483,167	NOMINAL 1-TUBE

LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)

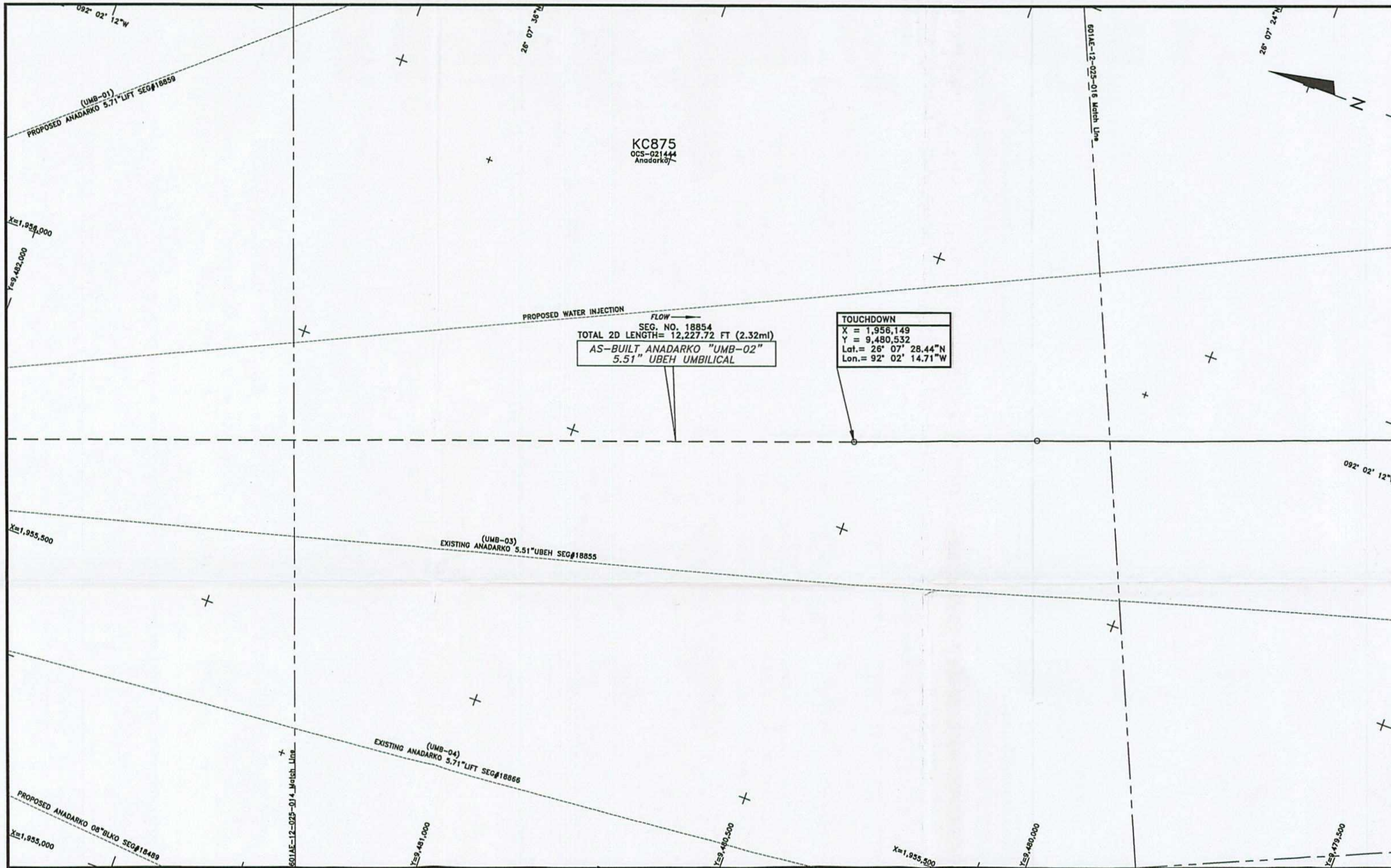
SEGMENT#18854
KEATHLEY CANYON BLOCK 875
GULF OF MEXICO



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: January 30 & February 18, 19, 2014 Survey Vessel: GLOBAL ORION
UTEC Ref. No. 601AE-12-025 UTEC Drawing No. 601AE-12-025- 014 Sheet Of 001 Of 007
Plot Size ANSI D

PLAN VIEW



AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
2	1,956,149	9,480,532	TOUCHDOWN
3	1,956,261	9,480,234	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.
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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 19, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- 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

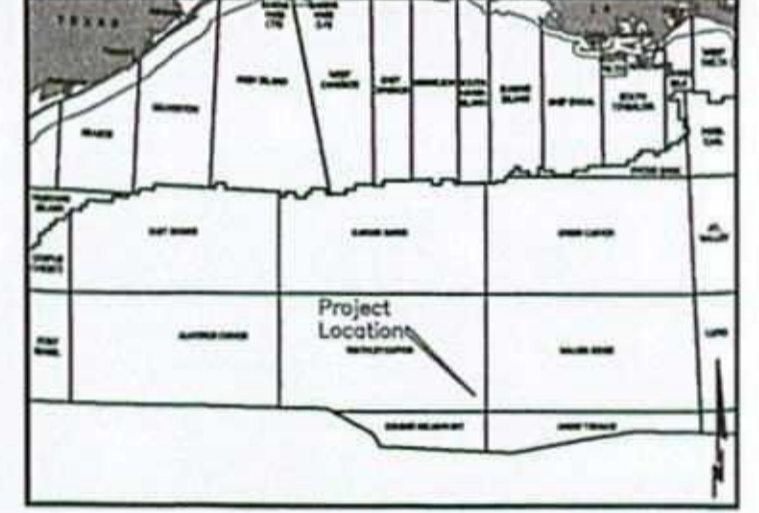
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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

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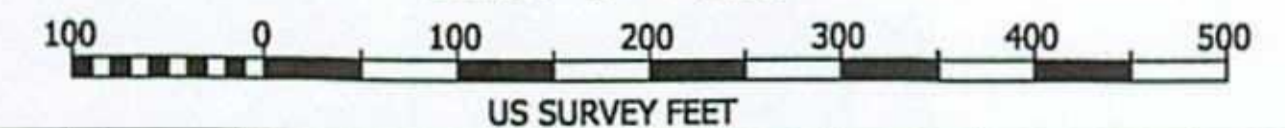
LOCATION PLAN (N.T.S.)



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 Tel 713-984-8688
 Fax 713-984-8683
 Website www.utecsurvey.com

LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)
 SEGMENT#18854
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

Scale 1" = 100'

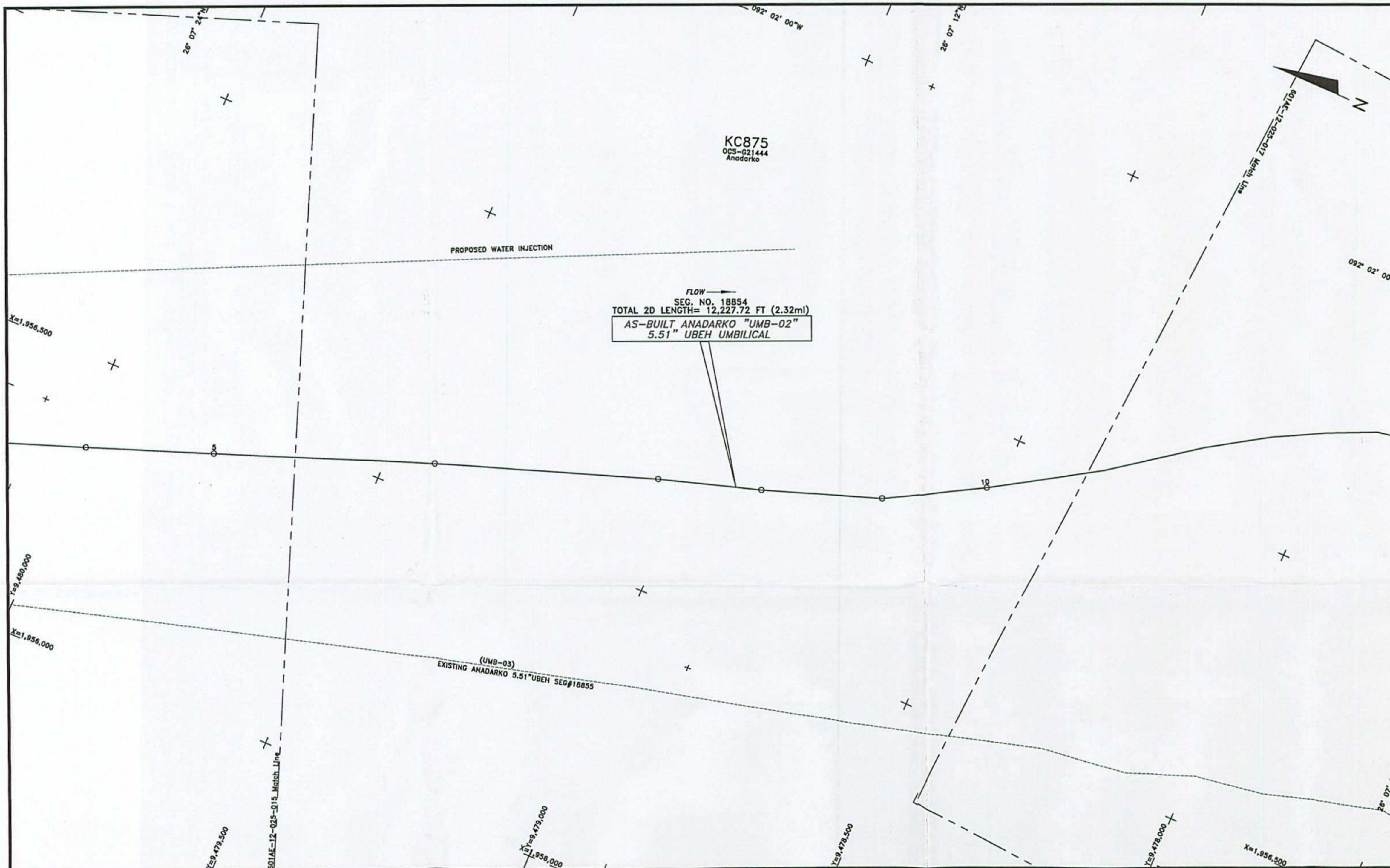


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL

Survey Dates: January 30 & February 18, 19, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-015	Sheet 002 Of 007
Plot Size ANSI D		

PLAN VIEW



AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
4	1,956,350	9,479,988	START OF MUD ANCHOR SECTION
5	1,956,427	9,479,779	END OF MUD ANCHOR SECTION
6	1,956,563	9,479,418	ROV FIX
7	1,956,692	9,479,050	ROV FIX
8	1,956,745	9,478,878	ROV FIX
9	1,956,814	9,478,680	ROV FIX
10	1,956,903	9,478,521	ROV FIX

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 19, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- CATHERARY
- 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

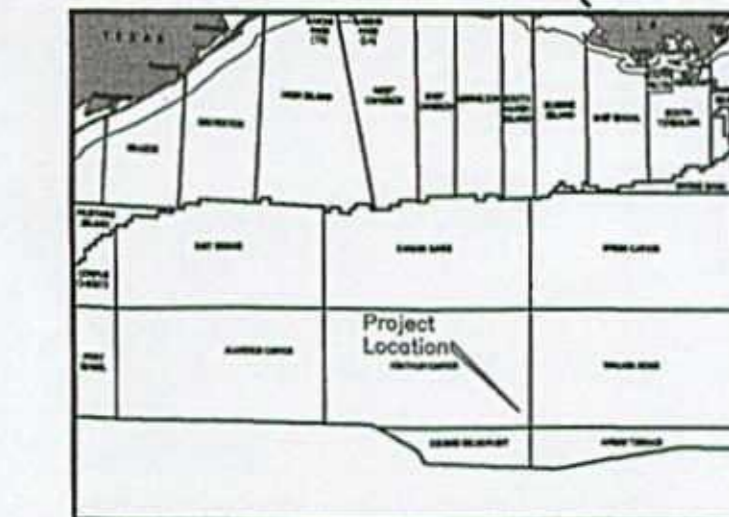
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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

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LOCATION PLAN (N.T.S)

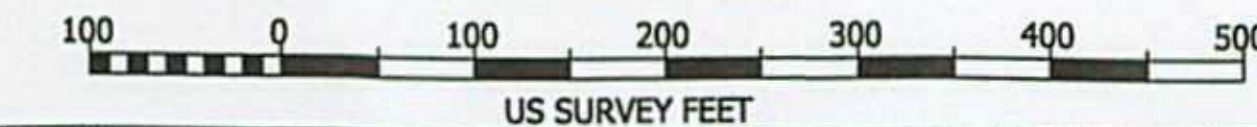


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LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)

SEGMENT#18854
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

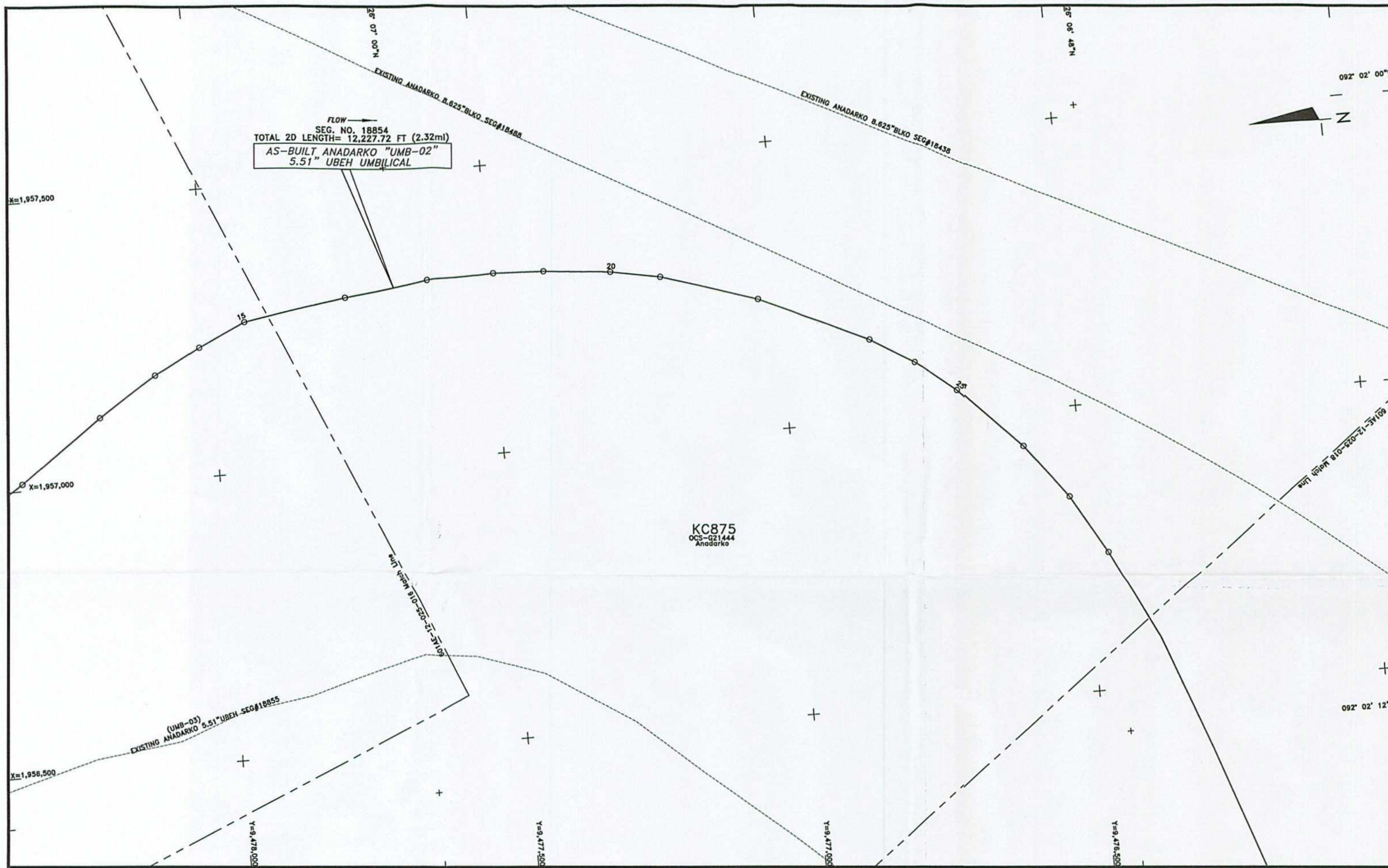
Scale 1" = 100'



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

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-016	Sheet 003	Of 007
Plot Size ANSI D			

PLAN VIEW



AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
11	1,957,012	9,478,345	ROV FIX
12	1,957,118	9,478,200	ROV FIX
13	1,957,182	9,478,097	ROV FIX
14	1,957,224	9,478,017	ROV FIX
15	1,957,261	9,477,934	ROV FIX
16	1,957,291	9,477,756	ROV FIX
17	1,957,309	9,477,610	ROV FIX
18	1,957,312	9,477,493	ROV FIX
19	1,957,309	9,477,405	ROV FIX
20	1,957,298	9,477,289	ROV FIX
21	1,957,281	9,477,203	ROV FIX
22	1,957,228	9,477,035	ROV FIX
23	1,957,143	9,476,848	ROV FIX
24	1,957,097	9,476,772	ROV FIX
25	1,957,043	9,476,701	ROV FIX
26	1,956,938	9,476,597	ROV FIX
27	1,956,844	9,476,524	ROV FIX
28	1,956,743	9,476,464	ROV FIX

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18,19, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- - - 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
- o 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 at Central Meridian: 0.99960
 Units: US Survey Feet

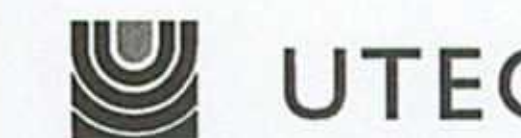
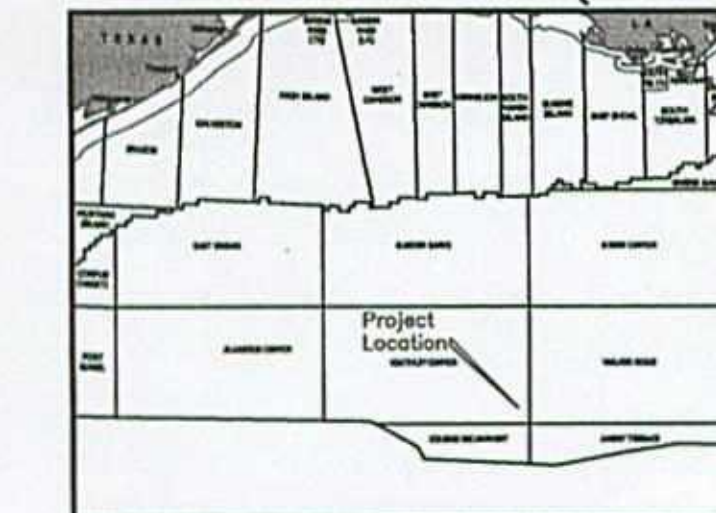
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



Nathan Eby, R.P.L.S.
 TEXAS REG #6198

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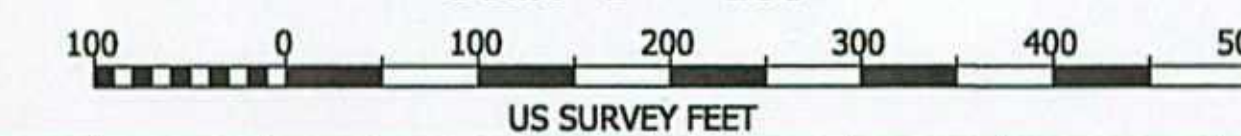
LOCATION PLAN (N.T.S)



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LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)
 SEGMENT#18854
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

Scale 1" = 100'

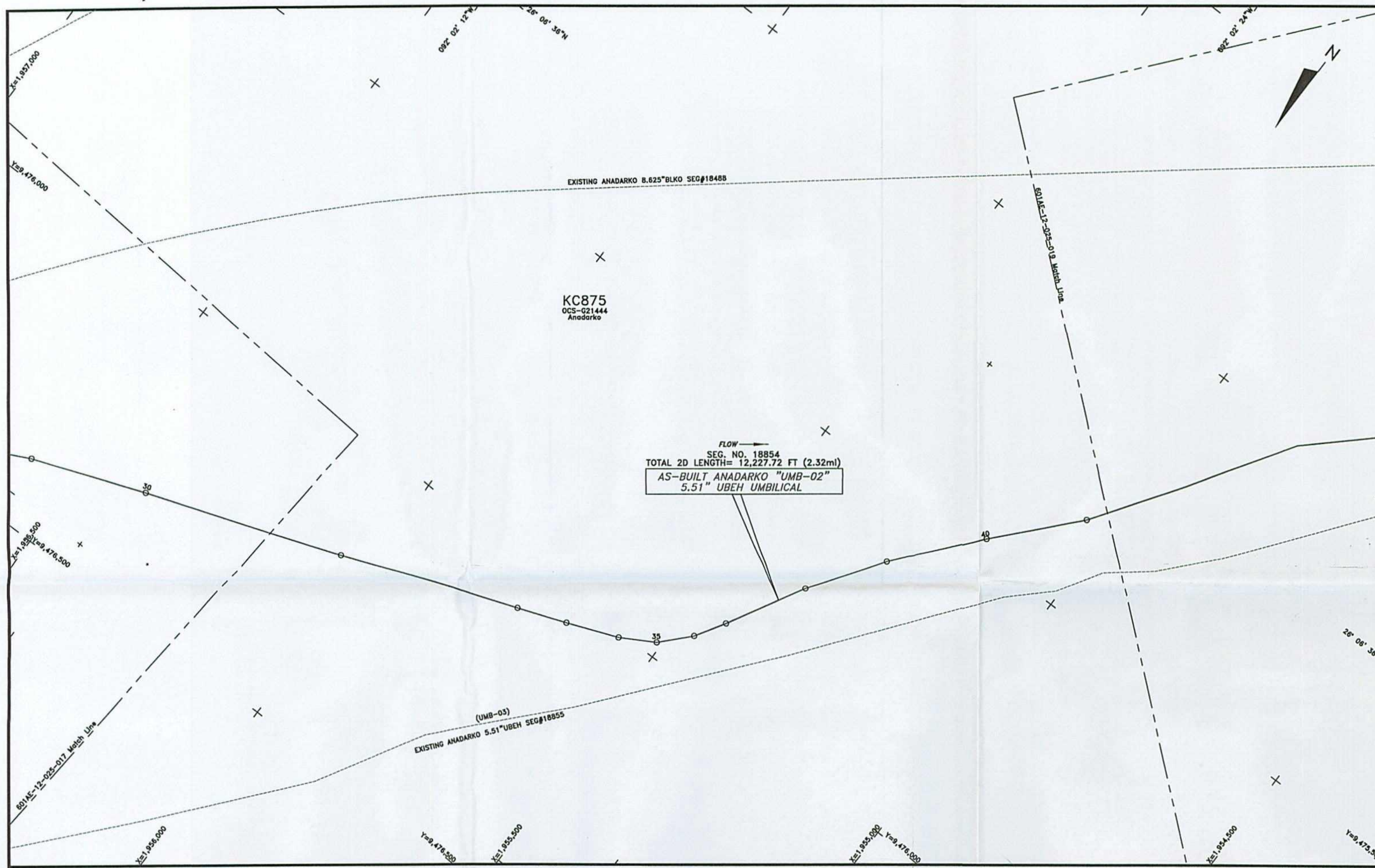


Rev. No.	Date	Comment	Interpr.	Checked	Appr.
0	09/08/14	ISSUED AS FINAL	VR	EG	JL
A2	08/14/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL
A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL

Survey Dates: January 30 & February 18,19 , 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025- 017	Sheet 004	Of 007
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PLAN VIEW



FLOW →
 SEG. NO. 18854
 TOTAL 2D LENGTH= 12,227.72 FT (2.32mi)
 AS-BUILT ANADARKO "UMB-02"
 5.51" UBEH UMBILICAL

AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
29	1,956,585	9,476,385	ROV FIX
30	1,956,389	9,476,311	ROV FIX
31	1,956,050	9,476,190	ROV FIX
32	1,955,740	9,476,076	ROV FIX
33	1,955,656	9,476,044	ROV FIX
34	1,955,568	9,476,008	ROV FIX
35	1,955,509	9,475,975	ROV FIX
36	1,955,464	9,475,926	ROV FIX
37	1,955,433	9,475,874	ROV FIX
38	1,955,399	9,475,840	ROV FIX
39	1,955,276	9,475,614	ROV FIX
40	1,955,162	9,475,475	ROV FIX
41	1,955,042	9,475,341	ROV FIX

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- - - 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
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- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o WELLS

GEODESY

Survey Datum: NAD 27
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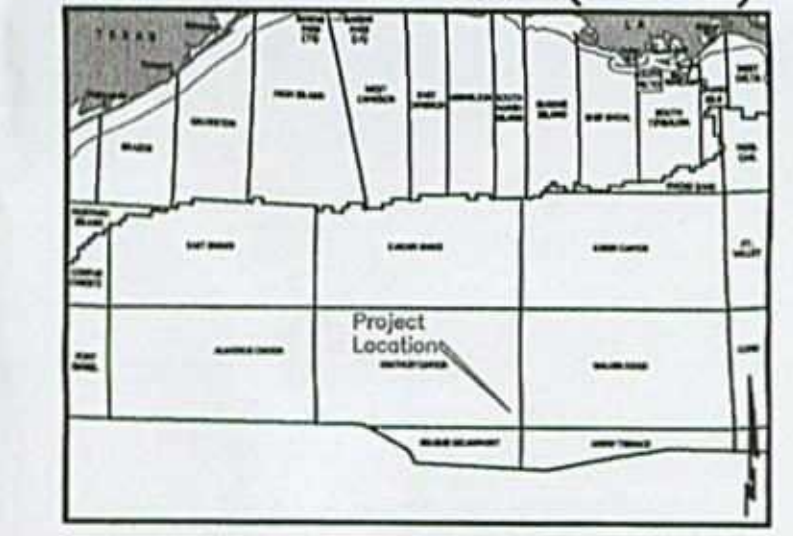
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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

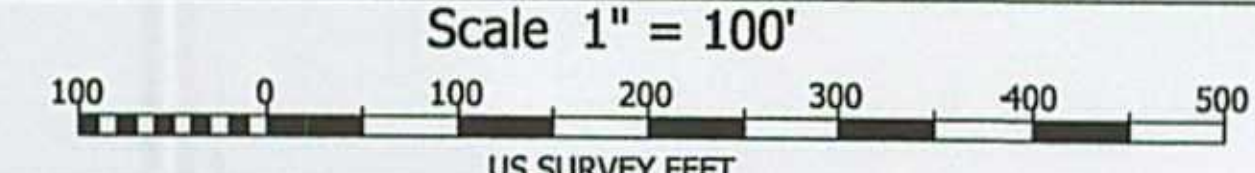
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LOCATION PLAN (N.T.S)



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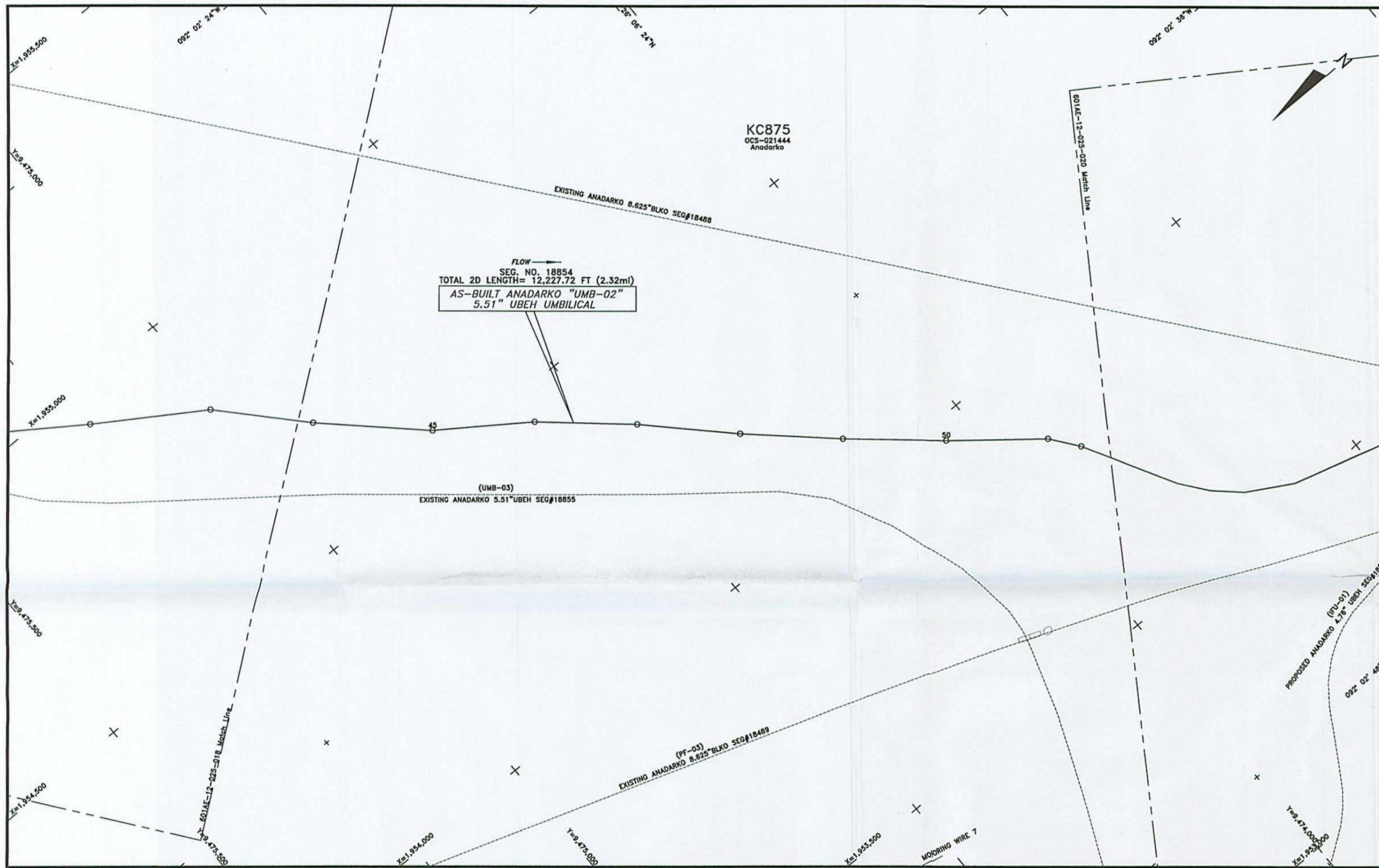
LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)
 SEGMENT#18854
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO



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A1	07/24/14	ISSUED FOR CLIENT COMMENTS	VR	MG	JL

Survey Dates: January 30 & February 18, 2014 Survey Vessel: GLOBAL ORION
 UTEC Ref. No. 601AE-12-025 UTEC Drawing No. 601AE-12-025- 018 Sheet Of 005 007
 Plot Size ANSI D

PLAN VIEW



AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
42	1,954,940	9,475,192	ROV FIX
43	1,954,826	9,475,014	ROV FIX
44	1,954,694	9,474,889	ROV FIX
45	1,954,550	9,474,735	ROV FIX
46	1,954,447	9,474,587	ROV FIX
47	1,954,329	9,474,451	ROV FIX
48	1,954,202	9,474,322	ROV FIX
49	1,954,081	9,474,189	ROV FIX
50	1,953,964	9,474,052	ROV FIX
51	1,953,853	9,473,913	ROV FIX
52	1,953,806	9,473,876	ROV FIX

NOTES

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- 4) AS-BUILT SURVEY DATE: JANUARY 30 & FEBRUARY 18, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
- 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: 0.99980
 Units: US Survey Feet

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



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

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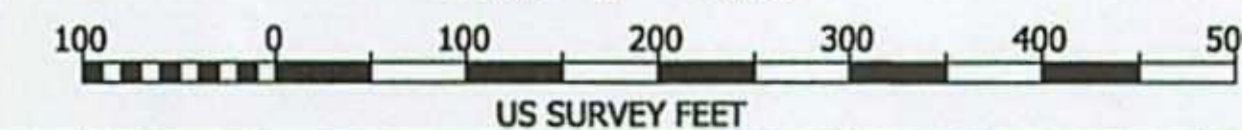
LOCATION PLAN (N.T.S)



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

LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02)
 SEGMENT#18854
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO

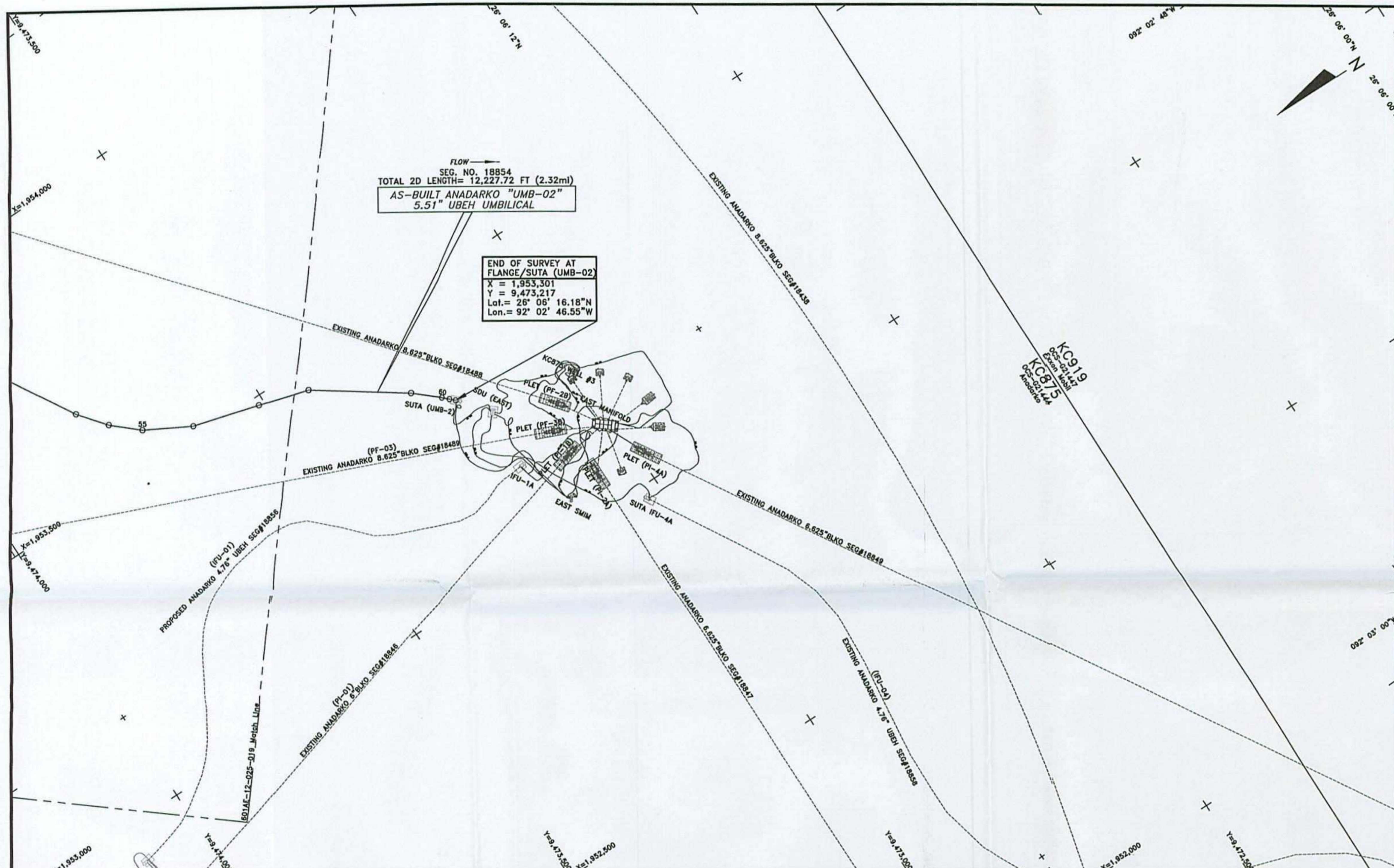
Scale 1" = 100'



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: January 30 & February 18, 2014		Survey Vessel: GLOBAL ORION	
UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-019	Sheet	Of
Plot Size ANSI D		006	007

PLAN VIEW



FLOW →
 SEG. NO. 18854
 TOTAL 2D LENGTH= 12,227.72 FT (2.32mi)
AS-BUILT ANADARKO "UMB-02"
5.51" UBEH UMBILICAL

**END OF SURVEY AT
 FLANGE/SUTA (UMB-02)**
 X = 1,953,301
 Y = 9,473,217
 Lat. = 28° 06' 16.18"N
 Lon. = 92° 02' 46.55"W

AS-BUILT ANADARKO 5.51" UBEH UMBILICAL SEGMENT#18854

POINT	X-COORDINATE	Y-COORDINATE	DESCRIPTION
53	1,953,649	9,473,786	ROV FIX
54	1,953,602	9,473,749	ROV FIX
55	1,953,562	9,473,704	ROV FIX
56	1,953,518	9,473,626	ROV FIX
57	1,953,485	9,473,510	ROV FIX
58	1,953,460	9,473,425	ROV FIX
59	1,953,356	9,473,277	ROV FIX
60	1,953,320	9,473,237	START OF BEND RESTRICTOR
61	1,953,309	9,473,226	END OF BEND RESTRICTOR
62	1,953,301	9,473,217	FLANGE/SUTA (UMB-02)

2D LENGTH OF SURVEY POINTS 2 THROUGH 62:
 9,425.38' = 1.79 MILES

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.
- 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: JANUARY 30 & FEBRUARY 18, 19, 2014

LEGEND

- AS-BUILT ANADARKO 5.51" UBEH UMBILICAL (UMB-02) SEG#18854
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- + GEOGRAPHICAL TICKS
- + UTM TICKS
- o WELLS

GEODESY

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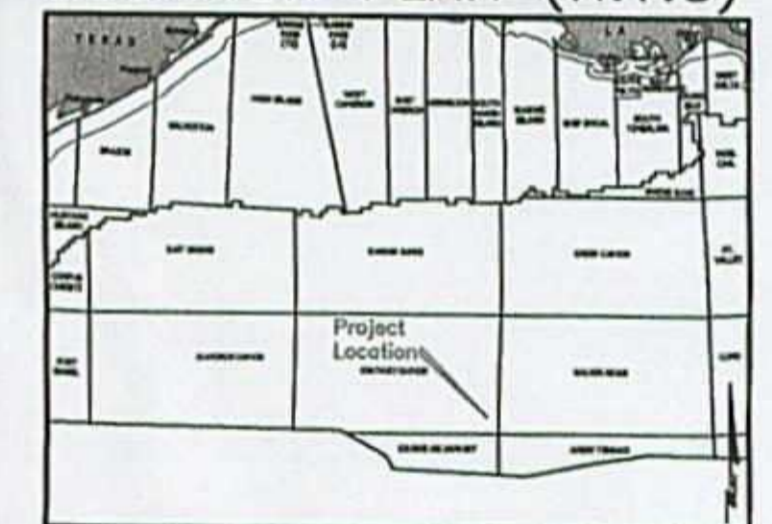
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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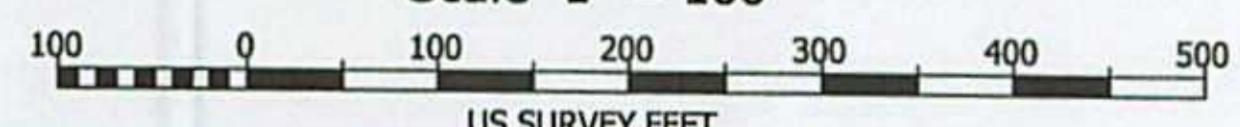
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Survey Dates: January 30 & February 18, 19, 2014 Survey Vessel: GLOBAL ORION

UTEC Ref. No. 601AE-12-025	UTEC Drawing No. 601AE-12-025-020	Sheet 007	Of 007
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