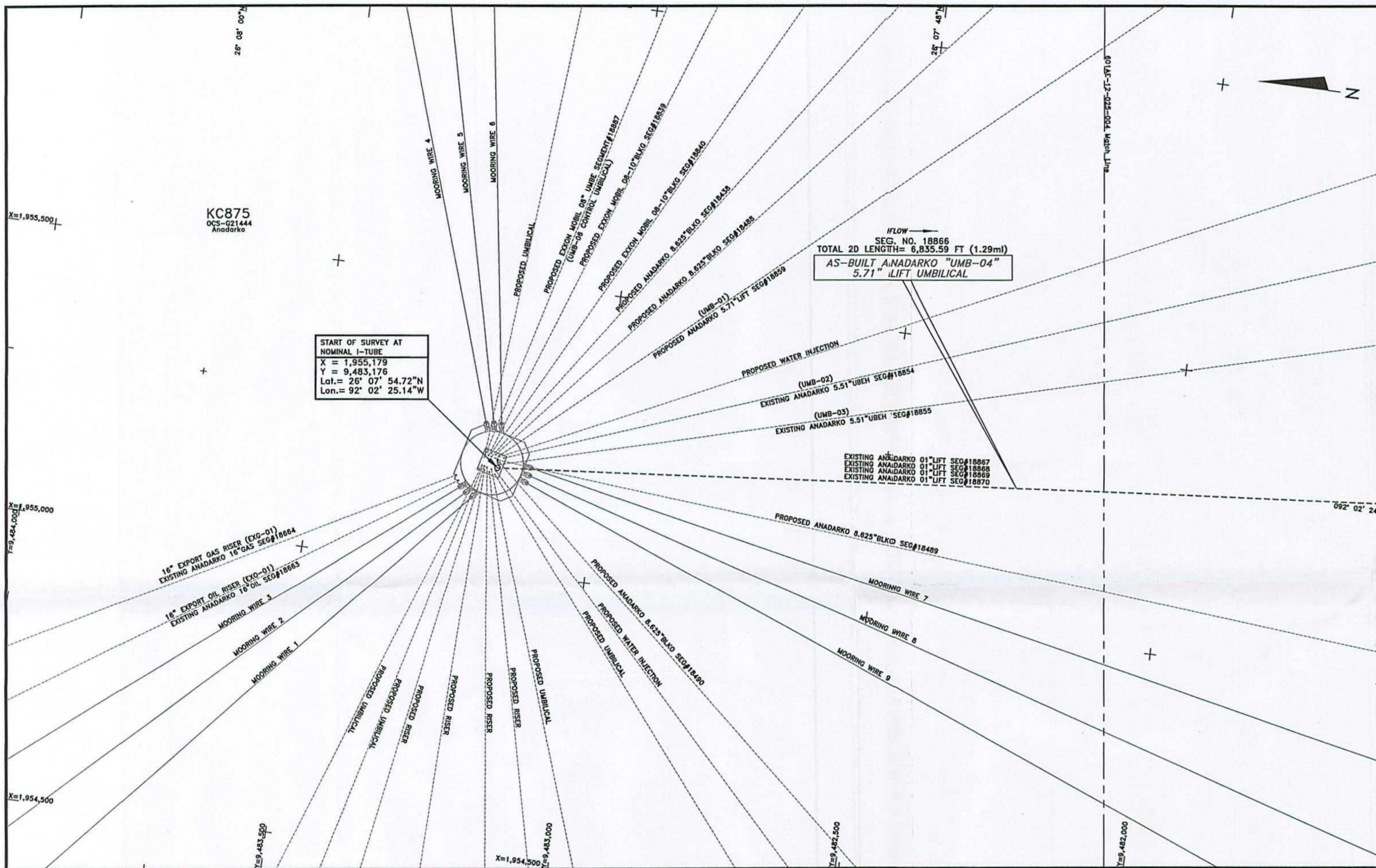


PLAN VIEW



KC875
OCS-G21444
Anadarko

START OF SURVEY AT
NOMINAL I-TUBE
X = 1,955,179
Y = 9,483,176
Lat. = 26° 07' 54.72" N
Lon. = 92° 02' 25.14" W

FLOW
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

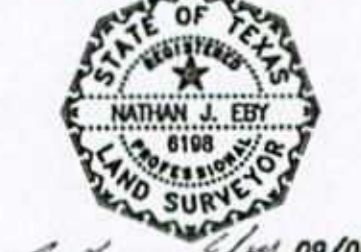
LEGEND

- 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

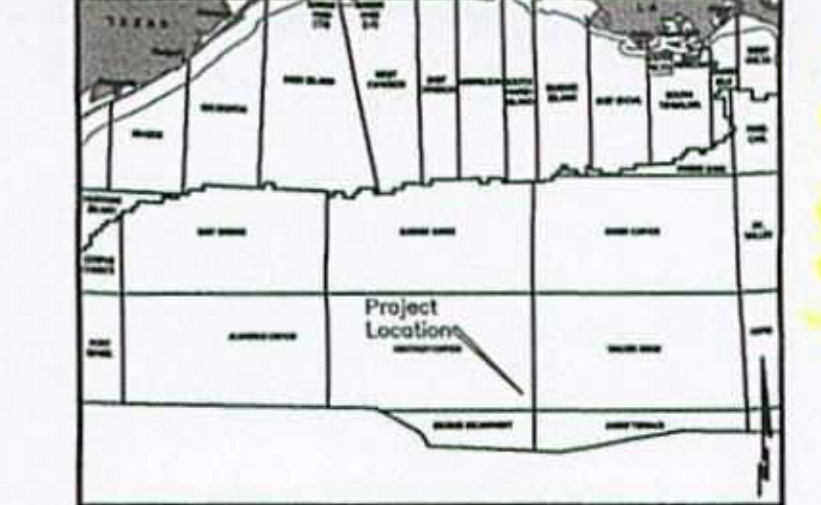
Survey Datum: NAD 27
Ellipsoid: Clarke 1866
Projection: Universal Transverse Mercator ZONE 15N
Longitude of Central Meridian: 93°W
False Easting (m): 500 000
False Northing (m): 0
Scale Factor of Central Meridian: 0.99980
Units: US Survey Feet

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



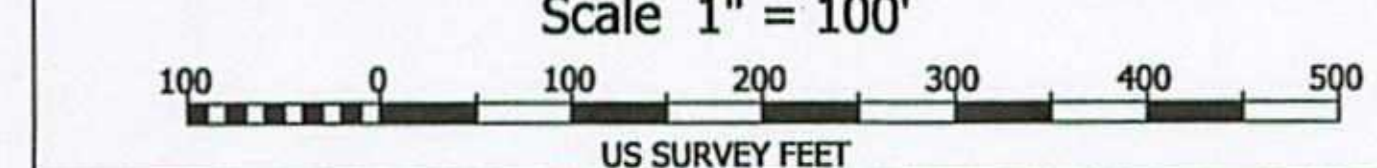
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LOCATION PLAN (N.T.S)



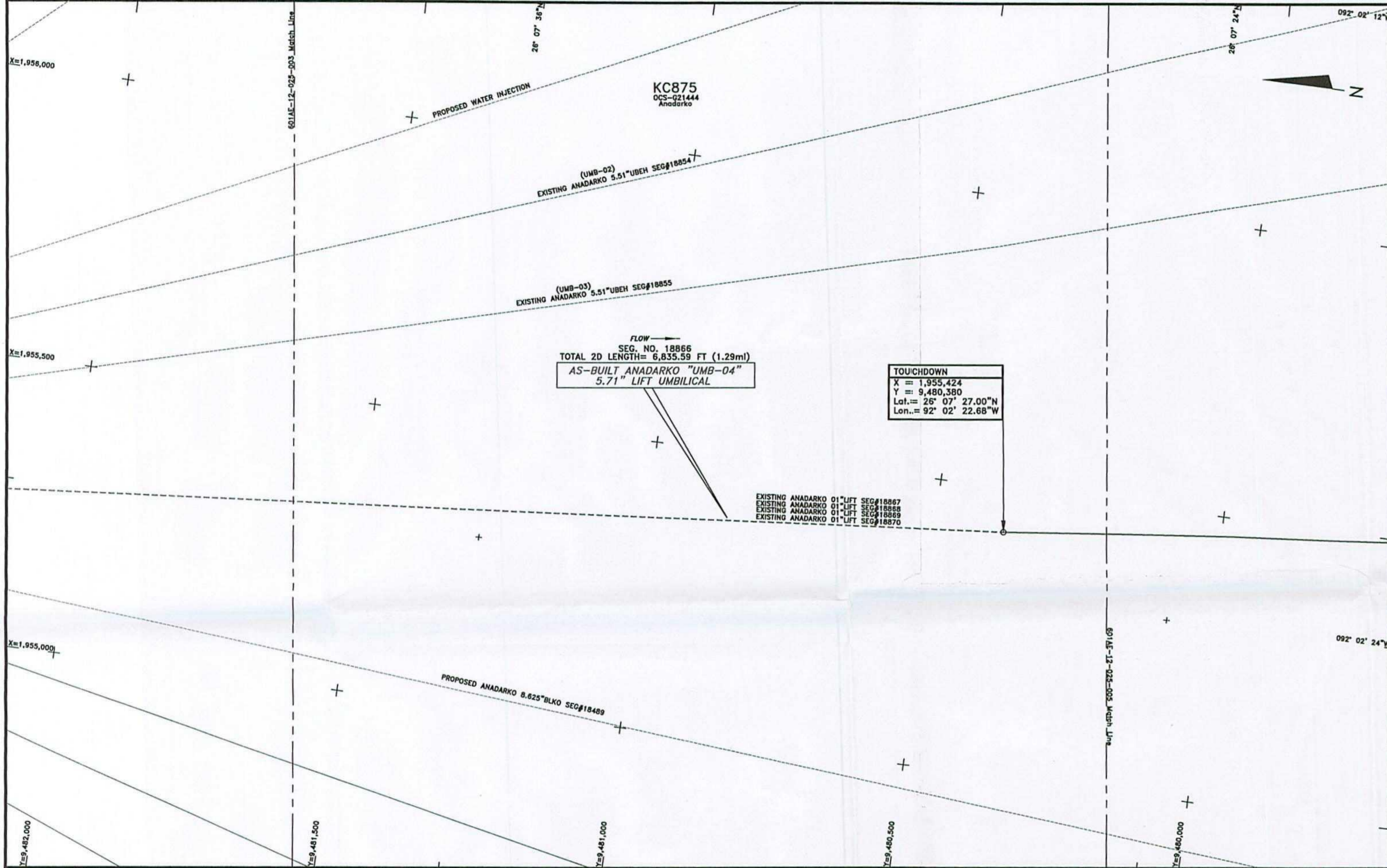
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HOUSTON, TEXAS 77041
Tel 713-984-8688
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LUCIUS DEVELOPMENT PROJECT
AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
SEGMENT#18866
KEATHLEY CANYON BLOCK 875
GULF OF MEXICO



| 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: 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

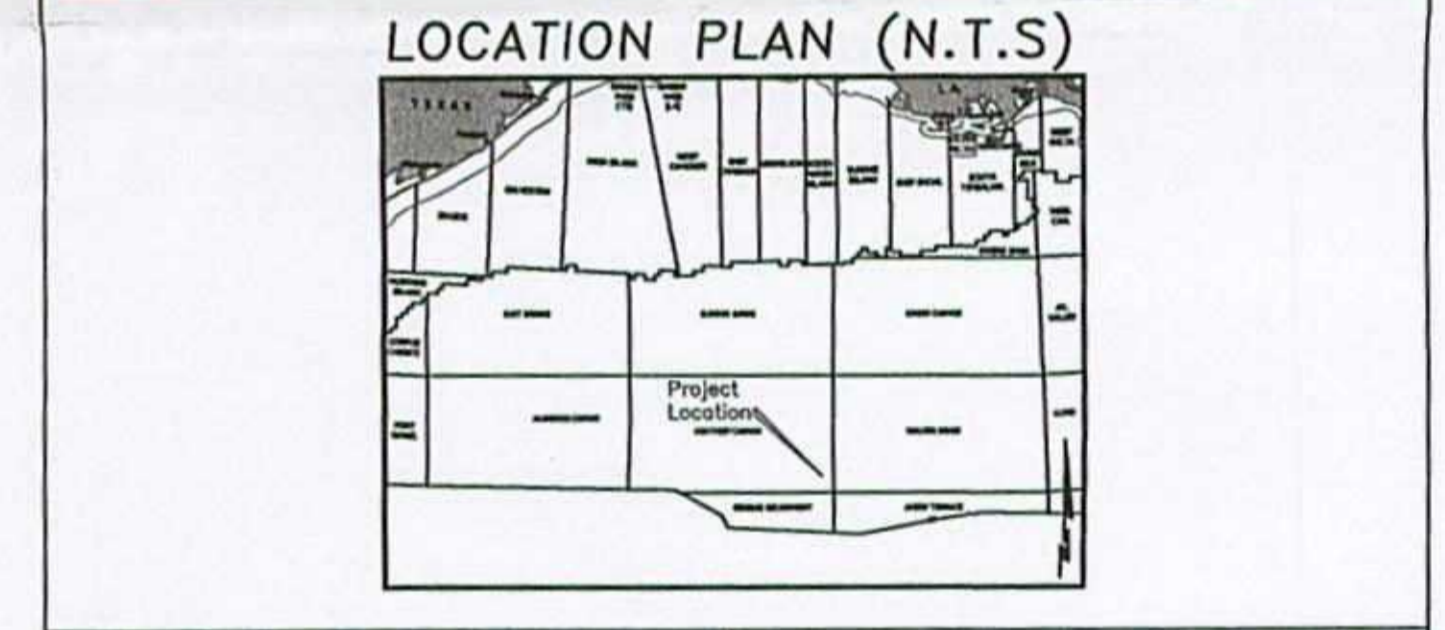
GEODESY

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

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TECHNIP USA, Inc.

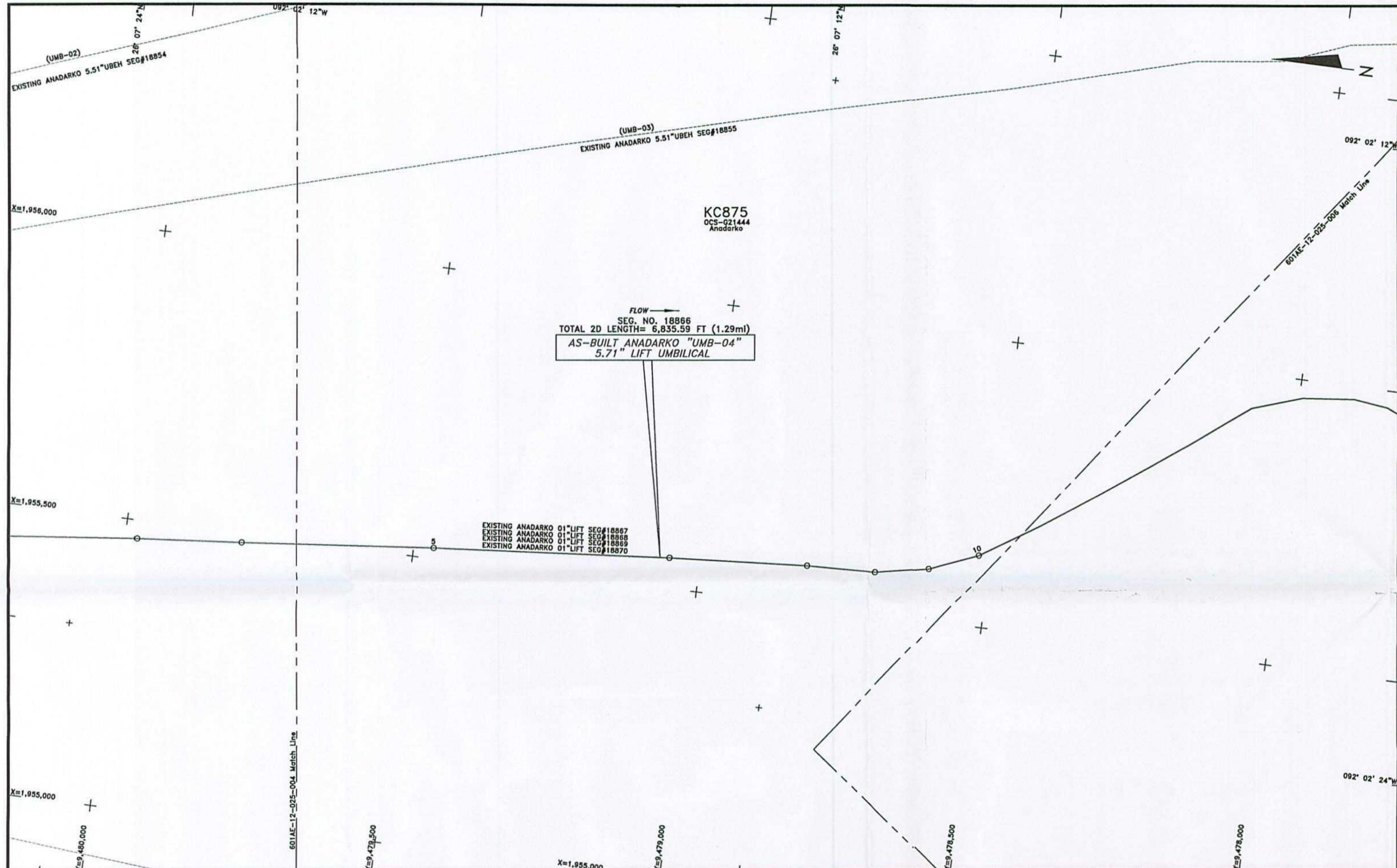
LUCIUS DEVELOPMENT PROJECT

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 |

PLAN VIEW



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

EXISTING ANADARKO 01" LIFT SEG#18867
 EXISTING ANADARKO 01" LIFT SEG#18868
 EXISTING ANADARKO 01" LIFT SEG#18869
 EXISTING ANADARKO 01" LIFT SEG#18870

KC875
 OCS-Q21444
 Anadarko

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

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- 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

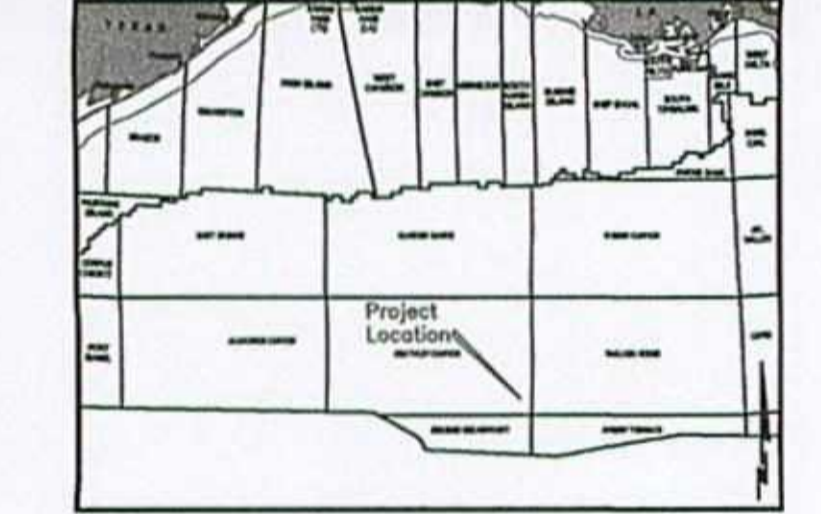
CERTIFIED CORRECT AS TO THE HORIZONTAL POSITION OF THE AS-BUILT UMBILICAL BASED ON THE SURVEY METHODS NOTED.



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

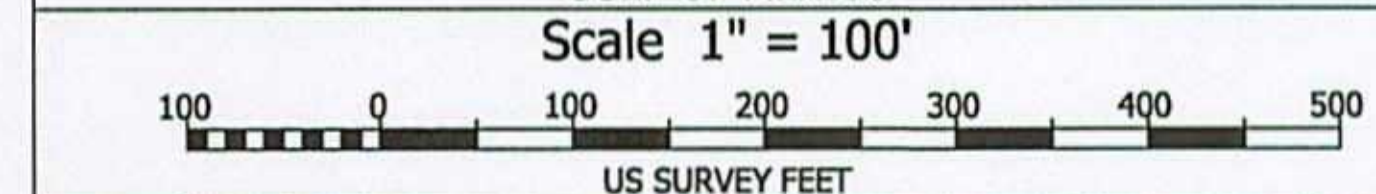
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LOCATION PLAN (N.T.S)



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 Website www.utecsurvey.com

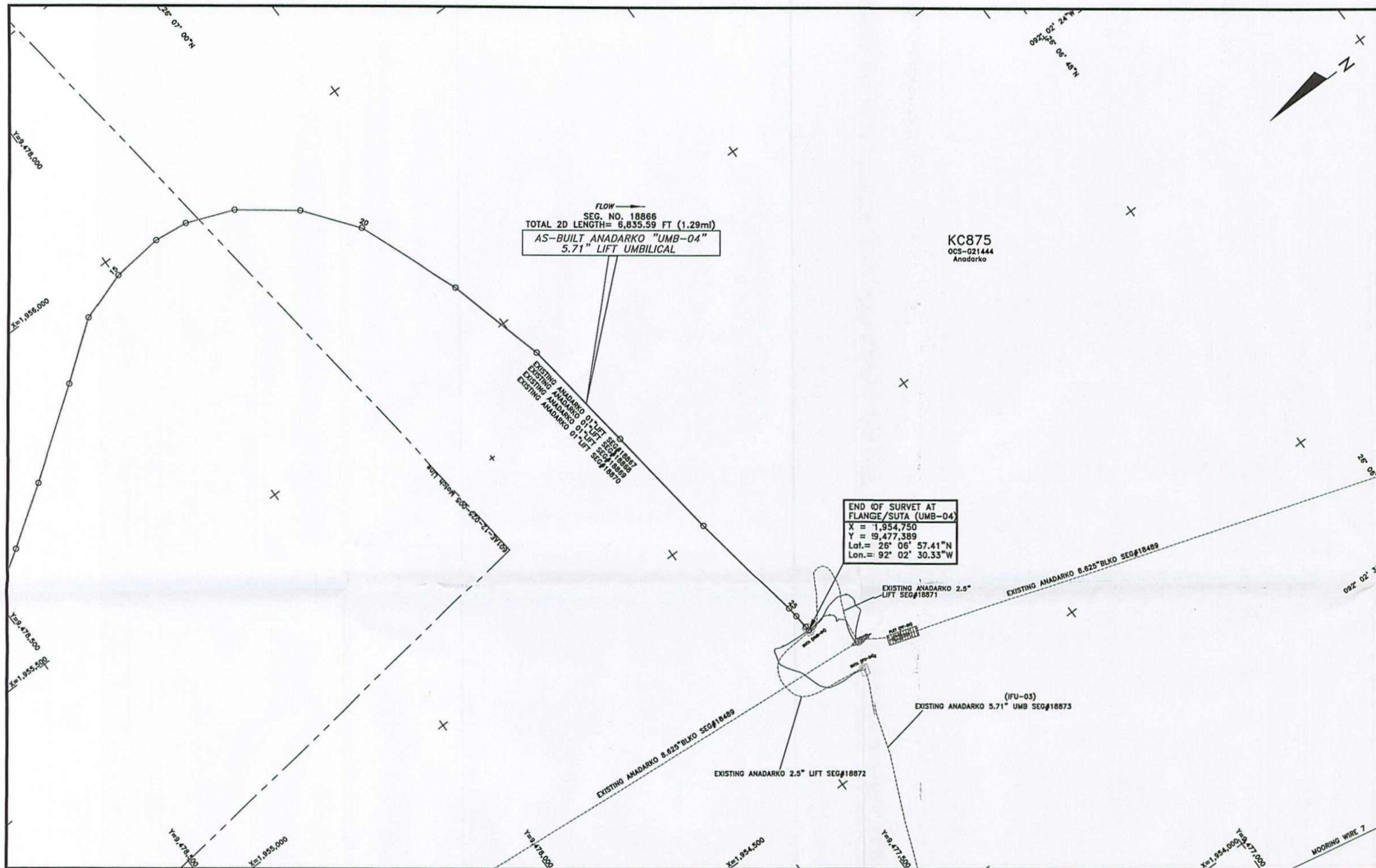
LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
 SEGMENT#18866
 KEATHLEY CANYON BLOCK 875
 GULF OF MEXICO



| 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 Of 003 004
 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.
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- 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
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 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

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LOCATION PLAN (N.T.S)

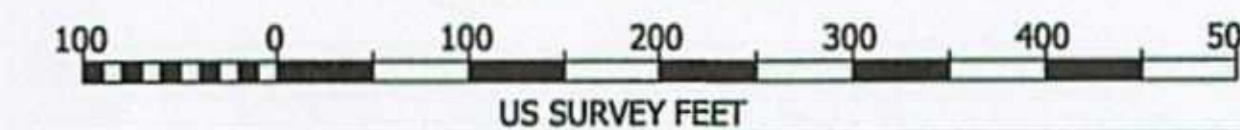


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LUCIUS DEVELOPMENT PROJECT
 AS-BUILT ANADARKO 5.71" LIFT UMBILICAL (UMB-04)
 SEGMENT#18866

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 | | | |