

ROBERT V. KERRICK
RKERRICK@MKBLAWAZ.COM

DOUGLAS G. MARTIN
CERTIFIED SPECIALIST REAL ESTATE LAW
ARIZONA BOARD OF LEGAL
SPECIALIZATION
DMARTIN@MKBLAWAZ.COM

LEONARD BELL
DECEASED DECEMBER 13, 2009
ATTORNEY

TELEPHONE
(602) 230-0030
TELECOPIER
(602) 604-0004

LAW OFFICES

MARTIN, KERRICK & BELL, L.L.C.

365 EAST CORONADO ROAD
SUITE 200
PHOENIX, ARIZONA 85004

www.mkblawaz.com

May 15, 2014

GOVERNMENT AFFAIRS

JIM WEST
JIMWEST@MKBLAWAZ.COM

LEGAL ASSISTANTS

RACHEL D. GRAYCZYK
RACHEL@MKBLAWAZ.COM

NORMAN B. MARTIN, M.P.A.
NMARTIN@MKBLAWAZ.COM

ELIZABETH BROWN
EBROWN@MKBLAWAZ.COM

SENT VIA ORDINARY AND CERTIFIED MAIL TO:

Pima County Board of Supervisors
c/o Robin Brigode, Clerk of the Board of Supervisors
130 W. Congress, 5th Floor
Tucson, AZ 85701

SENT VIA ORDINARY MAIL TO:

Pima County
ATTN: Charles Huckleberry, County Manager
130 W Congress St
Tucson, AZ 85701

Neil Konigsberg, Manager Real Property Services, Pima County
Public Works Building
201 N. Stone Avenue, 6th Floor
Tucson AZ 85701

Re: Sierrita Gas Pipeline Project Road Crossings

Dear Mr. Huckleberry, Mr. Konigsberg, Elected County Supervisors and Ms. Brigode:

As to the 12 Road Crossings we incorporate by reference the reports and the offers previous provided to you under the cover letter of May 8, 2014. Here we provide two additional documents.

The first is simply a break down prepared by the appraiser as to the 12 separate Road Crossings with the compensation determined by the appraiser as to the each of the 12.

Secondly, we now have survey documents from Energy Management Systems stamped by the surveyor as to each of the 12 separate Road Crossings. These supplement the prior appraisal reports.

The total Road Crossing compensation previously offered in the amount of \$10,000 is renewed.

If for any reason you need to see the original survey documents with the embossed stamp, I have retained those at my office and they are available for inspection review at any reasonable time.

CLERK'S NOTE:
COPY TO SUPERVISORS
COUNTY ADMINISTRATOR

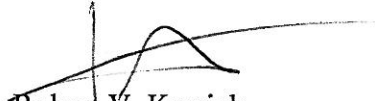
DATE

5/16/14 (signature)

MAY 16 14 PM 01 06 PC CLK OF BD (signature)

We look forward to complete this transaction and obtaining any Road Crossing permits that may be required to complete the proposed Sierrita Pipeline Project.

Cordially,



Robert V. Kerrick
Douglas G. Martin

DGM/eb
Enclosures
cc: Christie Billings
cc: Bill Biggs
cc: Jeff Teplitsky

Pima County Road Crossing Legal Descriptions

- a) A permanent utility easement on a portion of the existing road right-of way for Braniff Road, located at the southwest corner of Braniff Road and Snyder Hill Road, in a portion of Section 1, Township 15 South, Range 11 East, G&SRB&M, Pima County, Arizona. (10.325 acres) (\$500)
- b) A permanent utility easement on a portion of the existing road right-of way for Bopp Road, located west of Jerome Avenue and east of Rena Road, including the Bopp Road right of way, in portions of Sections 25 and 36, Township 14 South, Range 11 East, G&SRB&M, Pima County, Arizona. (529.632 acres) (\$500)
- c) A permanent utility easement on a portion of the existing road right-of way for San Joaquin Road, in a portion of Section 24, Township 14 South, Range 11 East, G&SRB&M, Pima County, Arizona. (68,500 feet) (\$7,200)
- d) A permanent utility easement on a portion of the existing road right-of way for Presumido Road, located west of SR 286 (Sasabe Highway), north of the U.S. – Mexico International Border, in a portion of Section 7, Township 21 South, Range 8 East, G&SRB&M, Pima County, Arizona. (640 acres) (\$100)
- e) A permanent utility easement on a portion of the existing road right-of way for El Mirador Road, located west of SR 286 (Sasabe Highway), north of the U.S. – Mexico International Border, in a portion of Section 13, Township 22 South, Range 7 East, G&SRB&M, Pima County, Arizona. (560 acres) (\$100)
- f) A permanent utility easement on a portion of the existing road right-of way for Sandario Road, located at the southwest corner of SR 86 (Ajo Highway) and Sandario Road, including the Sandario Road right-of-way, in a portion of Sections 21 and 22, Township 15 South, Range 11 East, G&SRB&M, Pima County, Arizona. (340.00 acres) (\$300)
- g) A permanent utility easement on a portion of the existing road right-of way for Elkhorn Ranch Road, located west of SR 286 (Sasabe Highway), north of the U.S. – Mexico International Border in a portion of Section 32, Township 18 South, Range 9 East, G&SRB&M, Pima County, Arizona. (563 acres) (\$100)
- h) A permanent utility easement on a portion of the existing road right-of way for Las Delicias Road, located west of SR 286 (Sasabe Highway), north of the U.S. – Mexico International Border, in a portion of Section 14, Township 19 South, Range 8 East, G&SRB&M, Pima County, Arizona. (640 acres) (\$100)
- i) A permanent utility easement on a portion of the existing road right-of way for Snyder Hill Road, located west of Desert Sunrise Trail and east of Braniff Road, including the Snyder Hill Road right-of-way, in a portion of Section 36, Township 14 South, Range 11 East, G&SRB&M, Pima County, Arizona. (445.736 acres) (\$300)

- j) A permanent utility easement on a portion of the existing road right-of way for Sierrita Mountain Road, located south of SR 86 (Ajo Highway), west of Taylor Lane, in a portion of Section 30, Township 15 South, Range 11 East, G&SRB&M, Pima County, Arizona. (344.02 acres) (\$200)
- k) A permanent utility easement on a portion of the existing road right-of way for the existing Continental Road right-of-way, located at the southwest corner of Continental Road and Snyder Hill Road, including the Continental Road right-of-way in a portion of Sections 1 and 2, Township 15 South, Range 11 East, G&SRB&M, Pima County, Arizona. (321.319 acres) (\$300)
- l) A permanent utility easement on a portion of the existing road right-of way for Taylor Lane, located South of SR 86 (Ajo Highway), west of Sandario Road, in a portion of Section 21, Township 15 South, Range 11 East, G&SRB&M, Pima County, Arizona. (336 acres) (\$200)

Transmittal Form



| | | | | | |
|---------|---------------------------------|-----------|---|--|--|
| Date | 05/09/14 | Project # | 5617 | | |
| To | Kinder Morgan | | Energy Management & Services Co. - Corporate Office 109 Fieldview Drive PO Box 1007 Versailles, KY 40383 (Phone: 859-873-0076) | | |
| Attn. | Bill Biggs | | | | |
| Address | 5151 E. Broadway Blvd. Ste.1680 | | Sender Name | Scott Cutlip/Stacey Hoffman | |
| City | Tucson | | Branch Office | Versailles | |
| State | Arizona | Zip Code | 85711 | Sender's Contact Info. Office - 859-873-0076 | |

We are sending you the following items via: USPS/UPS/FedEx

| | | | | | |
|--------------------------|-------------------------------------|-------------------|--------------------------|----------------------|--------------------------|
| Drawings | <input checked="" type="checkbox"/> | BOM/Requisitions | <input type="checkbox"/> | Sketches | <input type="checkbox"/> |
| Drawing Controls | <input type="checkbox"/> | Correspondence | <input type="checkbox"/> | Vendor/Shop Drawings | <input type="checkbox"/> |
| Electronic Drawing Files | <input type="checkbox"/> | Computer Disks/CD | <input type="checkbox"/> | Feasibility Studies | <input type="checkbox"/> |
| Electronic Survey Files | <input type="checkbox"/> | Meeting Notes | <input type="checkbox"/> | Bid Tabulations | <input type="checkbox"/> |
| Calculations | <input type="checkbox"/> | Specifications | <input type="checkbox"/> | Other | stamped |

These items are transmitted as checked below:

| | | | | | |
|--------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------------|--------------------------|
| For Information | <input checked="" type="checkbox"/> | For As-Built | <input type="checkbox"/> | For Your Files | <input type="checkbox"/> |
| For Review/Comment | <input type="checkbox"/> | For Fabrication | <input type="checkbox"/> | Returned Loaned Originals | <input type="checkbox"/> |
| For Approval | <input type="checkbox"/> | For Corrections | <input type="checkbox"/> | Returned Loaned Prints | <input type="checkbox"/> |
| For Bid | <input type="checkbox"/> | Approved as Submitted | <input checked="" type="checkbox"/> | Revised | <input type="checkbox"/> |
| For Construction | <input type="checkbox"/> | Approved as Noted | <input type="checkbox"/> | Other - Storage - Offsite Copy | <input type="checkbox"/> |

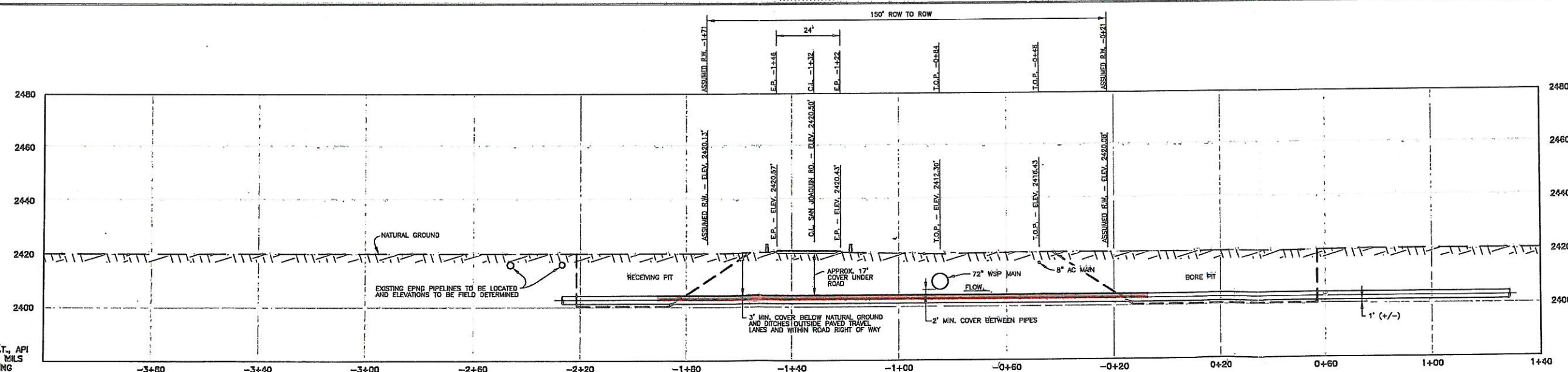
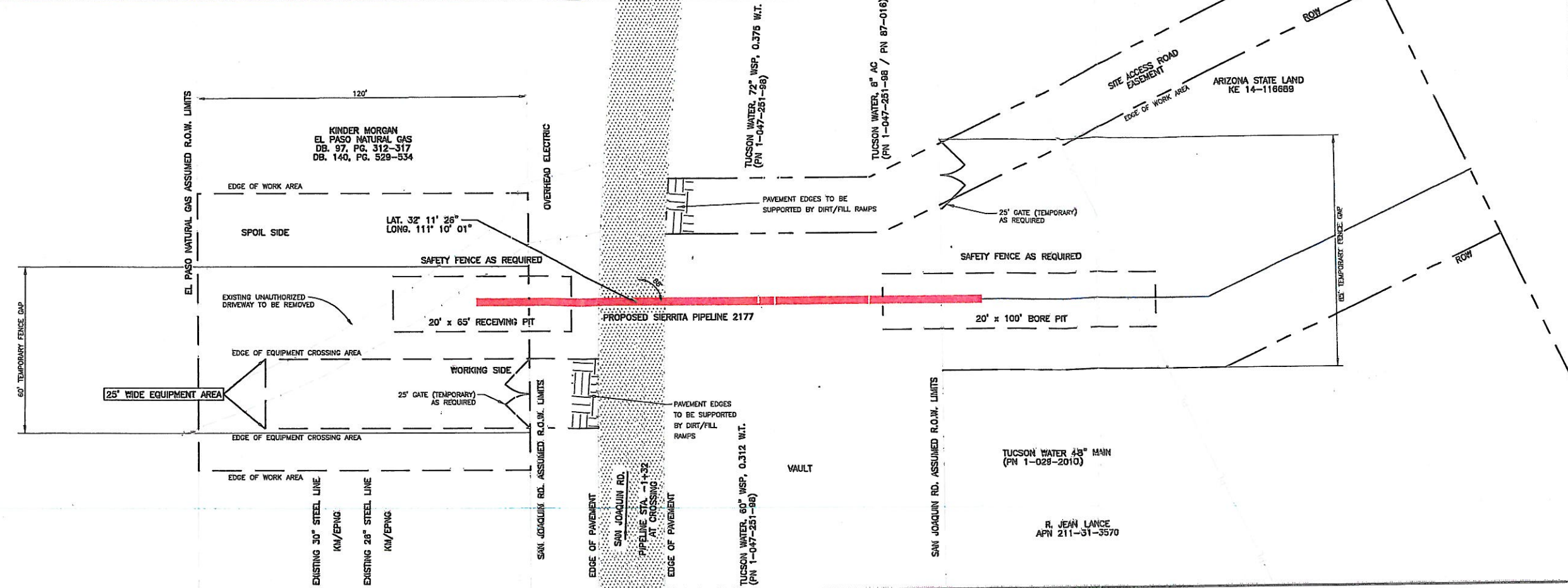
| Description | Revision | Quantity | Comments |
|--|----------|----------|--|
| 5617-Sierrita Road Crossing Permit Dwg | | 12 | Stamped - Road Crossing Permit Drawings. |
| | | | (56173001, 56173002, 56173003, 56173004, |
| | | | 56173006, 56173007, 56173008, 56173012, |
| | | | 56173013, 56173015, 56173016, 56173022) |
| | | | |
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The information in this document shall be used only for the designated project. If you are receiving this document in an electronic format, it can often be altered by the user. Any reuse of the data for any purpose other than the designated project or after it has been altered or modified will be at the user's sole risk. This document is intended solely for the use of the recipient(s) to which it is addressed and may contain information that is legally confidential and privileged. If you are not the intended recipient(s), or an employee or agent responsible for delivery of this message to the intended recipient(s), you are hereby notified that any disclosure, copying, distribution, or use of this document is prohibited. If you have received this document in error, please notify the sender and destroy the document immediately.

Energy Management & Services Co.
EMS.Project
Technical Transmittal Form

Form: 17000.PM.17
Revision Date: January 27,2012
Page 1 of 1

Print Form



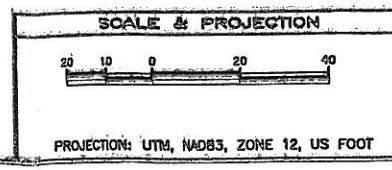
PIPE DESCRIPTION:
36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW w/ 14-18 MILS
FBE & 30 MIL ARO COATING

- NOTES:**
- CROSSING METHOD TO BE JACK & AUGER BORE.
 - LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
a) CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT B11 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
b) LOCATIONS AND ELEVATIONS OF TUCSON WATER 72" WSP MAIN AND 8" AC MAIN DETERMINED BY POTHOLE METHOD, 4/24/14.
 - WORK SPACE ACROSS HIGHWAY FOR MOVING EQUIPMENT ACROSS ROAD. ROAD SURFACE COVERED WITH 1" PLYWOOD AND TIRES FOR TRACKED EQUIPMENT.
 - CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
 - WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CHR 1929 SUBPART-P.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
 - RESTORATION OF ROADWAY SHALL SATISFY REQUIREMENTS OF PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".

PROFILE
1" = 20'
11"x17" & OTHER = GRAPHIC

Sierrita Gas Pipeline LLC
CORPORATE OFFICE:
1650 N. 10TH AVE.
SUITE 100
TUCSON, AZ 85710
TEL: (520) 475-0075 • FAX: (520) 475-0076
www.sierritagas.com

REGIONAL OFFICE:
1000 N. 10TH AVE.
SUITE 100
TUCSON, AZ 85710
TEL: (520) 475-0075 • FAX: (520) 475-0076
www.sierritagas.com



| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|-----|----------|-----|-------------------|----------|-------|
| E | 05/23/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS |
| D | 02/23/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS |
| C | 01/16/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS |
| B | 12/23/13 | EMS | ISSUED FOR PERMIT | 9917 | EMS |

| REVISIONS | | | |
|---|-----|----------|-------------------------|
| SIERRITA GAS PIPELINE LLC | | | |
| SIERRITA PIPELINE NO. 2177 PROPOSED 36" NATURAL GAS PIPELINE CROSSING SAN JOAQUIN RD. PLAN AND PROFILE | | | |
| Revised | By | Date | Description |
| 01/16/14 | EMS | 02/23/14 | Project ID: 9917 |
| 01/16/14 | EMS | 02/23/14 | Scale: AS SHOWN |
| 01/16/14 | EMS | 02/23/14 | File Name: 99173001.dwg |
| 56173001 | | | Sheet No. 1 of 1 |

5/9/2014
Scott P. Callig
EXPIRES 6/30/2016



DESIGN DATA
 CROSSING HORIZONTAL LENGTH: 1538'
 DIRECTIONAL BORE LENGTH: 1547'
 DESIGN RADIUS: 3800'

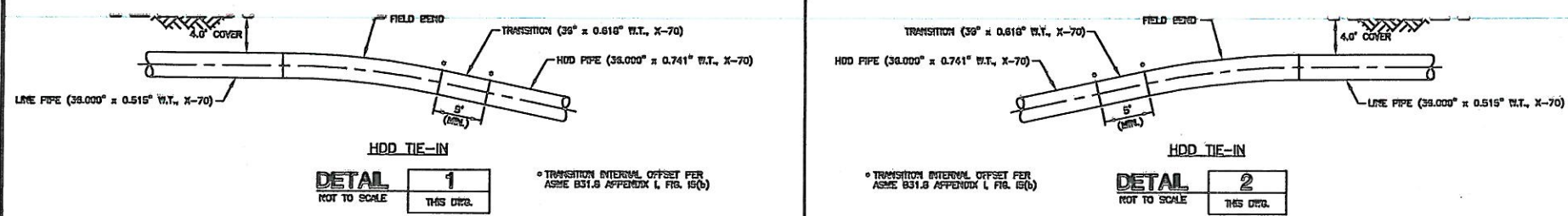
CARRIER PIPE:
 36.000" O.D., 0.741" W.T.
 API-5L X70 15-16 MSLS MIN. FEE
 COATED WITH 30 MILS ANTI-CORROSION RESISTANT OVERLAY

DIRECTIONAL DRILL NOTES:

1. FINAL BOREHOLE DIAMETER SHALL BE 48"
2. MINIMUM ALLOWABLE BOREHOLE DEPTH SHALL BE NO LESS THAN 5' FROM EDGE OF PERMANENT R.O.W.
3. HORIZONTAL POSITION OF BOREHOLE SHALL BE EXACTLY AT LOCATION SHOWN.
4. DRILLED ENTRY POINT SHALL NOT BE DEEPER THAN 10' FROM EXISTING CENTERLINE.
5. HDD BORE WILL NOT BE INSTALLED AT A DEPTH SHALLOWER THAN SHOWN.
6. DRILL FLUID AND DRILL SPILLS SHALL BE DISPOSED OF EITHER AT AN APPROVED LOCATION OR BY HEAVING WITH TOPSOIL AT AN APPROVED SITE.
7. DISPOSAL SITES TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO "KINDER MORGAN" FOR APPROVAL PRIOR TO USE.
8. WATER SOURCE AND DISCHARGE POINT FOR HYDROSTATIC TEST PIPE PRIOR TO FULLBACK SHALL BE AS PER HYDROSTATIC TEST PLAN AND APPLICABLE PERMITS.
9. CONTRACTOR SHALL ENSURE ALL WATER DISCHARGE COMPLIES WITH KINDER MORGAN SPECIFICATIONS AND ALL APPLICABLE LOCAL REQUIREMENTS AND PERMITS.
10. ELEVATIONS SHOWN ARE BASED ON SURVEY DATA PROVIDED BY OTHERS.
11. ELEVATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
12. PHOTOGRAPHY SHOWN IS OF UNKNOWN VERTAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

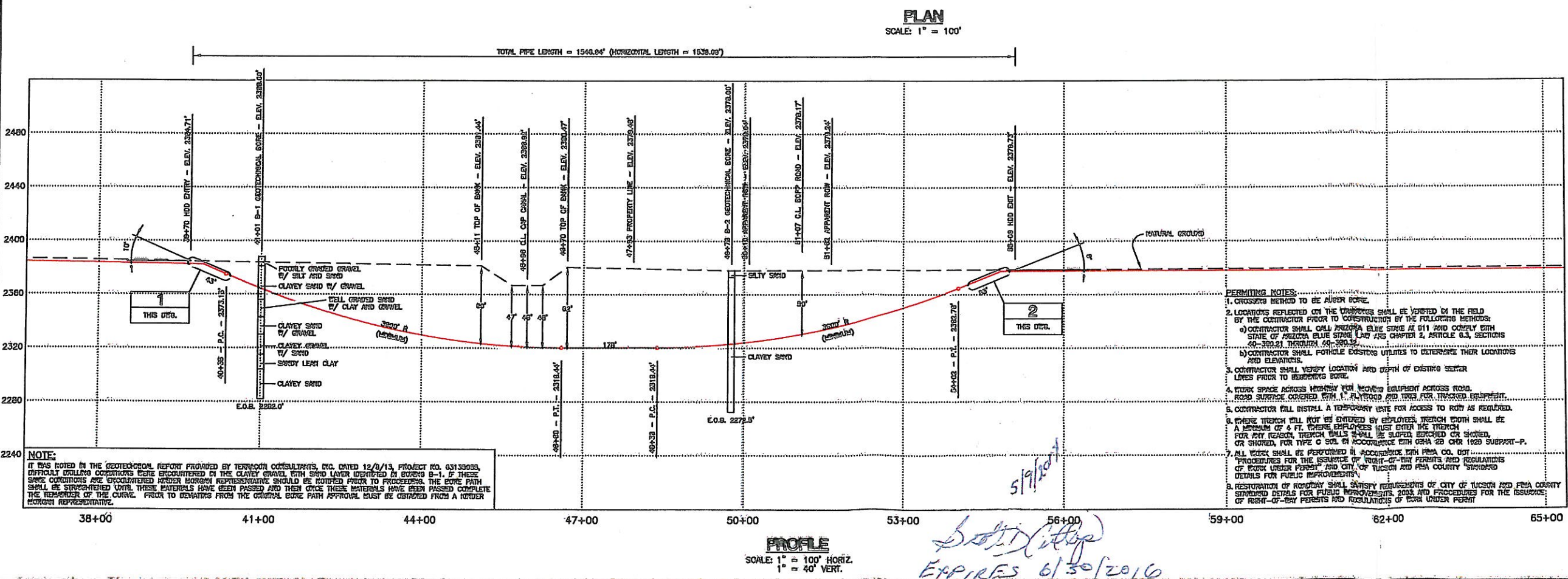
NOTES:

1. THE LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL INSTALL WORKINGS OVER EXISTING PIPELINES PRIOR TO BEGINNING WORK.



HDD CONSTRUCTION NOTES

1. THIS PIPELINE WILL BE INSTALLED UNDER CODES TITLE 48, PART 182 OF, CLASS 1, PIPE DESIGN FACTOR IS 0.50.
2. HDD CONTRACTOR TO DESIGN IN ACCORDANCE WITH INDUSTRY STANDARDS AND EQUIPMENT LIMITATIONS.
3. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE GROUND AND HYDROSTATICALLY TEST FOR 4 HOURS.
4. BROKEN CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL PLAN AND PROCEDURES.
5. THE CONSTRUCTION INSPECTOR WILL CONTINUOUSLY MONITOR THE HDD CONSTRUCTION BY VISUALLY INSPECTING ALONG THE DRILL PATH, OBSERVING AND DOCUMENTING DRILLING FLUID PRESSURES AND VOLUMES, AND DOCUMENTING ALL DRILLING PRODUCTS USED.
6. IN THE EVENT OF UNINTENTIONAL RELEASE OF DRILLING FLUID WITHIN A WATERWAY, EPRG WILL IMMEDIATELY CONTACT APPLICABLE AGENCIES BY TELEPHONE OR FACSIMILE DESCRIBING THE LOCATION OF THE RELEASE, CORRECTIVE ACTIONS BEING TAKEN, AND WHETHER THE RELEASE POSSES A THREAT TO PUBLIC HEALTH AND SAFETY.
7. IF A FRAUD CUT OCCURS, THE CONTRACTOR WILL HAVE CONTINGENT BOOMS OR SIMILAR DEVICE TO CURTAIL DRILLING FLUID, AND CONTRACTOR WILL ATTEMPT TO REMOVE AS MUCH DRILLING HUD AS POSSIBLE WITH SUCTION HOSE OR OTHER MEANS IN ORDER TO PREVENT OVER PRESSURING. A PRESSURE SENSOR WILL BE USED BEHIND THE DRILL BIT TO EVALUATE MAXIMUM DRILLING FLUID PRESSURE. THIS ALLOWS DRILLER TO BE AWARE OF AN OBSTRUCTION IN A BORE HOLE THAT COULD LEAD TO INADVERTENT RETURN TO THE SURFACE.
8. IF DIRECTIONAL DRILL MUST BE ASSUMED, THE DRILL HOLE WILL BE FILL WITH DRILLING FLUID AND GROUT SEaled FOR A DISTANCE OF NO LESS THAN THIRTY FEET AT EACH END.
9. A CONTINGENCY PLAN WILL BE FORMED AFTER DETERMINING CONTRACTORS FOR THE HDDS.
10. REFER TO GEOTECHNICAL REPORT PROVIDED BY TERRACON CONSULTANTS, INC. DATED 12/8/13, PROJECT NO. 6313003, FOR SUBSURFACE CONDITIONS.



SCALE & PROJECTION

1" = 100' HORIZONTAL
 1" = 40' VERTICAL
 PROJECTION: UTM, NAD83, ZONE 12, US FOOT

SIERRITA GAS PIPELINE LLC

SIERRITA PIPELINE NO. 2177
 PROPOSED 36" NATURAL GAS PIPELINE
 HDD DETAIL SHEET
 CAP CANAL & BOPP RD.
 HDD PLAN AND PROFILE STA. 45+96

| DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|----------|-----|-----------------------------|----------|-------|
| 02/11/14 | END | ISSUED FOR INFORMATION ONLY | 64701 | |

REVISIONS

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|-----|----------|-----|-----------------------------|----------|-------|
| 1 | 02/11/14 | END | ISSUED FOR INFORMATION ONLY | 64701 | |

SIERRITA PIPELINE LLC

SIERRITA PIPELINE NO. 2177
 PROPOSED 36" NATURAL GAS PIPELINE
 HDD DETAIL SHEET
 CAP CANAL & BOPP RD.
 HDD PLAN AND PROFILE STA. 45+96

| DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|----------|-----|-----------------------------|----------|-------|
| 02/11/14 | END | ISSUED FOR INFORMATION ONLY | 64701 | |

SIERRITA PIPELINE LLC

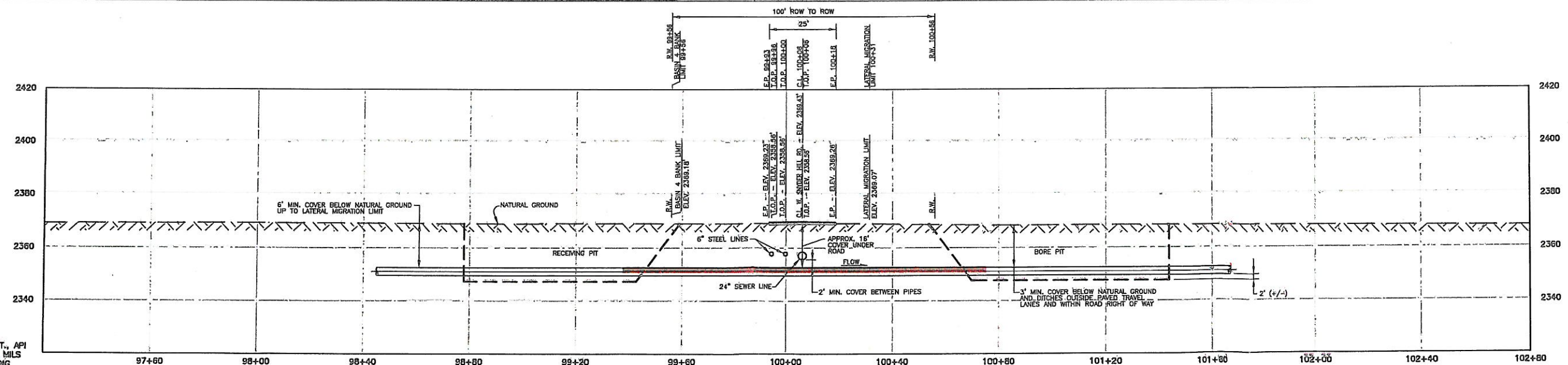
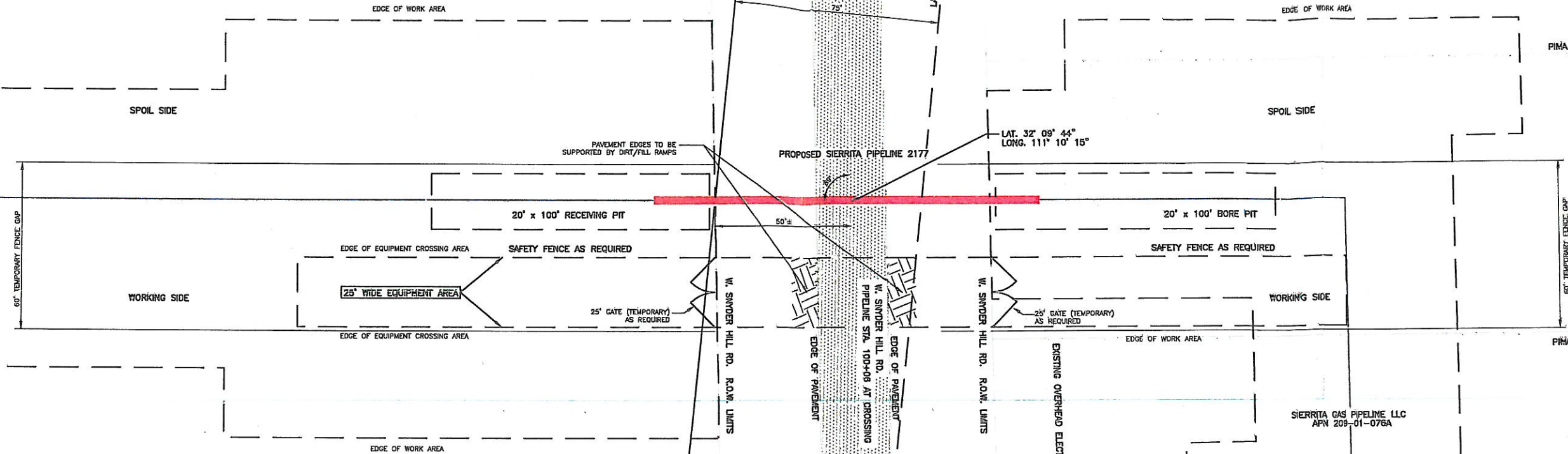
SIERRITA PIPELINE NO. 2177
 PROPOSED 36" NATURAL GAS PIPELINE
 HDD DETAIL SHEET
 CAP CANAL & BOPP RD.
 HDD PLAN AND PROFILE STA. 45+96

5/9/2014
EXPIRES 6/30/2016

ARIZONA STATE LAND
KE 14-116689

PIMA CO.
APN 209-01-0730

PIMA CO. (UNNAMED ROAD), ASSUMED R.O.W. LIMITS



PIPE DESCRIPTION:
36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW @ 14-15 MILS
FBE & 30 MIL ARO COATING

- NOTES:**
- CROSSING METHOD TO BE AUGER BORE.
 - LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS WHERE NECESSARY.
 - CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER LINES PRIOR TO BEGINNING BORE.
 - WORK SPACE ACROSS HIGHWAY FOR MOVING EQUIPMENT ACROSS ROAD. ROAD SURFACE COVERED WITH 1" PLYWOOD AND TIRES FOR TRACKED EQUIPMENT.
 - CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS TO ROW AS REQUIRED.
 - WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CHR 1929 SUBPART-P.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
 - RESTORATION OF ROADWAY SHALL SATISFY REQUIREMENTS OF CITY OF TUCSON AND PIMA COUNTY STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, 2003, AND PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT

PROFILE
SCALE: 1" = 20'

Sierrita Gas Pipeline LLC
CORPORATE OFFICE:
1000 N. 1ST AVE.
TUCSON, AZ 85702
TEL: (520) 793-0700 • FAX: (520) 793-0701
BRANCH OFFICES:
TUCSON, AZ
PHOENIX, AZ
www.sierritagas.com



PROJECTION: UTM, NAD83, ZONE 12, US FOOT

| NO. | DATE | BY | DESCRIPTION | FROM | TO | APPROVED |
|-----------|----------|-----|-------------------|------|-----|----------|
| REVISIONS | | | | | | |
| 1 | 01/20/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS | |
| 2 | 01/31/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS | |
| 3 | 01/05/14 | EMS | ISSUED FOR PERMIT | 9917 | EMS | |
| 4 | 12/20/13 | EMS | ISSUED FOR PERMIT | 9917 | EMS | |

SIERRITA GAS PIPELINE LLC

SIERRITA PIPELINE NO. 2177
PROPOSED 36" NATURAL GAS PIPELINE
CROSSING W. SNYDER HILL RD.
PLAN AND PROFILE

| | | | |
|-------------|--------------|-----------|----------|
| City: | TUCSON | Op. Area: | TUCSON |
| State: | ARIZONA | Co./Para: | FEMA |
| Station: | | Range: | |
| Drawn: | EMS | Date: | 03/12/13 |
| Check: | EMS | Date: | 01/03/14 |
| Appr: | EMS | Date: | 01/31/14 |
| Project ID: | 5917 | Scale: | AS SHOWN |
| File Name: | 59173003.DWG | Sheet: | 1 of 1 |

56173003

PIMA COUNTY, ARIZONA



PIMA CO.
APN 209-01-057E

SPOIL SIDE

PIMA CO.
APN 209-03-0030

SPOIL SIDE

PROPOSED 36"
PIPELINE

PIPELINE STA. 143+43
SEE DWG. 2177.0-2

0.741" W.T.
R/W TO R/W
LAT. 32° 09' 42"
LONG. 111° 11' 02"

WORKING SIDE

WORKING SIDE

EDGE OF
DIRT ROAD

EDGE OF
DIRT ROAD

FENCE

PIPELINE CROSSING LENGTHS
R/W - R/W = 80'
DIRT ROAD SURFACE = 24'

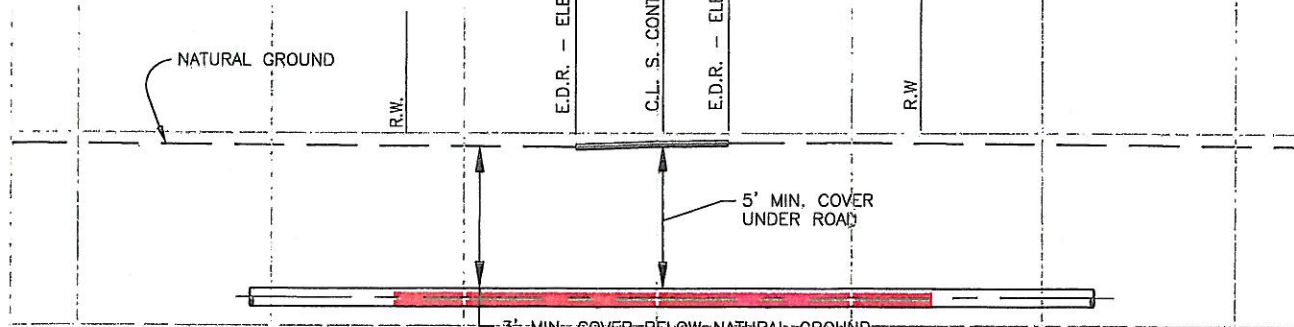
PLAN VIEW
SCALE: 1" = 30'

NOTES:

PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW W/ 14-16 MILS
FBE.

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS.
- CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
- WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CFR 1926 SUBPART-P.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
- RESTORATION OF ROADWAY SHALL SATISFY REQUIREMENTS OF PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".



3'-MIN.-COVER-BELOW-NATURAL-GROUND-
AND DITCHES OUTSIDE OF ROAD RIGHT OF
WAY. PIPE DEPTH TO BE VERIFIED BY CONTRACTOR
USING POTHOLING METHOD TO DETERMINE LOCATIONS
AND ELEVATIONS OF EXISTING UTILITIES.

PROFILE

NOT TO SCALE

REVISIONS

SCALE AS NOTED

| NO. | DESCRIPTION | DATE | DRAWN | EMS | DATE |
|-----|-------------------|----------|-----------------|----------|---------------|
| A | ISSUED FOR REVIEW | 11/14/13 | CHK'D | EMS | DATE 07/01/13 |
| B | ISSUED FOR PERMIT | 12/20/13 | APPROVED | EMS | DATE 01/22/14 |
| C | ISSUED FOR PERMIT | 01/15/14 | EMS JOB NO. | 5617 | DATE 01/29/14 |
| D | ISSUED FOR PERMIT | 01/23/14 | AFE/P.Q. NO. | | |
| E | ISSUED FOR PERMIT | 01/29/14 | CLIENT FILE NO. | | |
| | | | EMS FILE NO. | 56173004 | |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL

S. CONTINENTAL RD. PIPELINE CROSSING

PIMA COUNTY

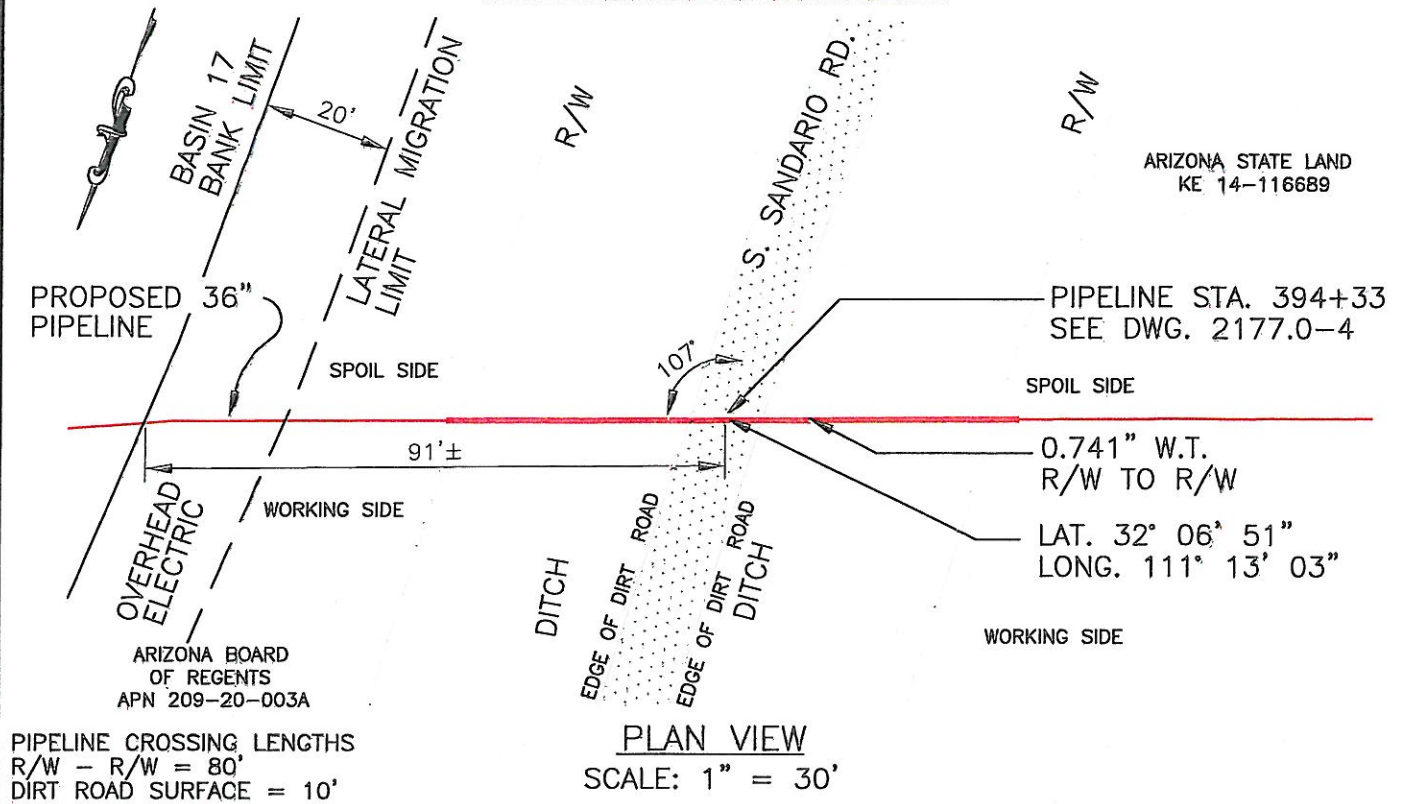
ARIZONA

NO.

56173004

REV.
E

PIMA COUNTY, ARIZONA

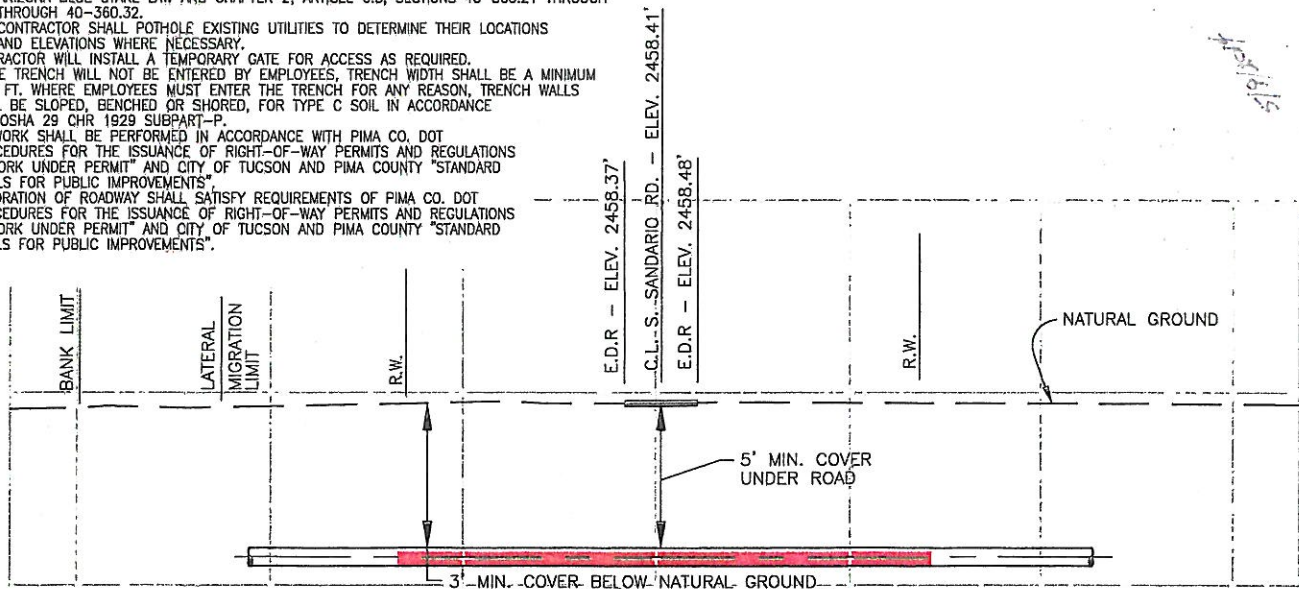


NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS WHERE NECESSARY.
- CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
- WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CHR 1929 SUBPART-P.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
- RESTORATION OF ROADWAY SHALL SATISFY REQUIREMENTS OF PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".

PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW W/ 14-16 MILS
FBE.



AND DITCHES OUTSIDE OF ROAD RIGHT OF WAY. PIPE DEPTH TO BE VERIFIED BY CONTRACTOR USING POTHOLING METHOD TO DETERMINE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.

PROFILE

NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|---------------------|----------|
| A | ISSUED FOR REVISION | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/29/14 |
| F | ISSUED FOR PERMIT | 04/29/14 |

| SCALE | AS NOTED |
|-----------------|-------------------|
| DRAWN | EMS DATE 10/08/13 |
| CHK'D | EMS DATE 01/22/14 |
| APPROVED | EMS DATE 01/29/14 |
| EMS JOB NO. | 5617 |
| AFE/P.O. NO. | |
| CLIENT FILE NO. | |
| EMS FILE NO. | 56173006 |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL

S. SANDARIO RD. PIPELINE CROSSING

PIMA COUNTY

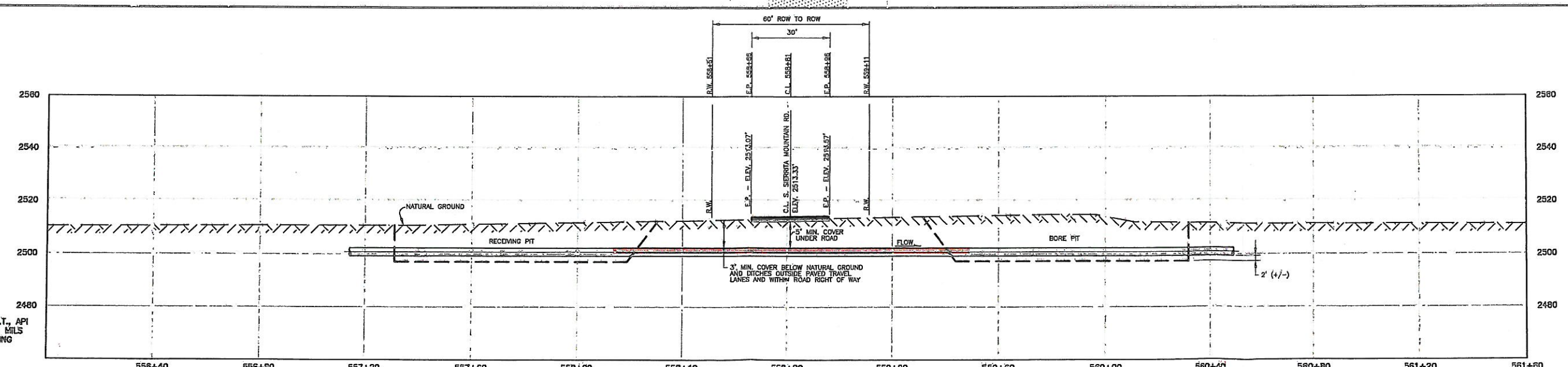
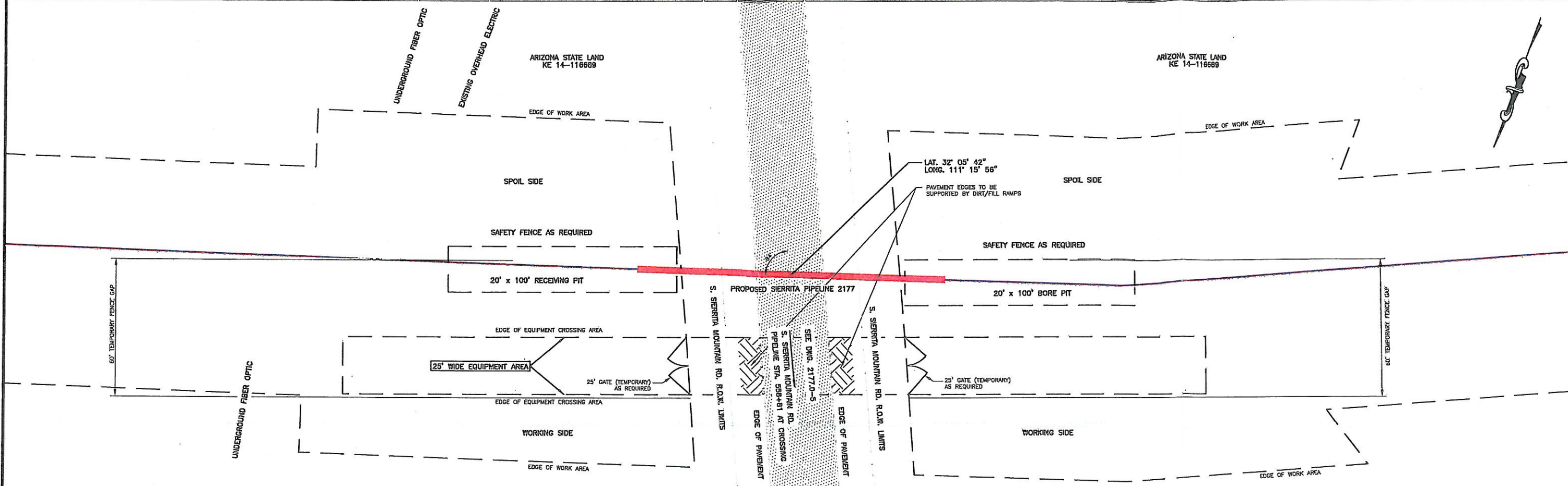
ARIZONA

NO.

56173006

REV.

F



- PIPE DESCRIPTION:**
 36.000" O.D. x 0.741" W.T., API
 5L-X70 USAW 6/14-18 MILS
 FBE & 30 MIL ARO COATING
- NOTES:**
- CROSSING METHOD TO BE AUGER BORE.
 - LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 a) CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 b) CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS.
 - WORK SPACE ACROSS HIGHWAY FOR MOVING EQUIPMENT ACROSS ROAD. ROAD SURFACE COVERED WITH 1" PLYWOOD AND TIRES FOR TRACKED EQUIPMENT.
 - CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
 - WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CHR 1929 SUBPART-P.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
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REVISIONS

| NO. | DATE | BY | DESCRIPTION | PROJ. ID | APPR. |
|-----|----------|-----|-------------------|----------|-------|
| D | 01/28/14 | ENS | ISSUED FOR PERMIT | 9917 | ENS |
| C | 01/15/14 | ENS | ISSUED FOR PERMIT | 9917 | ENS |
| B | 12/23/13 | ENS | ISSUED FOR PERMIT | 9917 | ENS |

SIERRITA GAS PIPELINE LLC

SIERRITA PIPELINE NO. 2177
 PROPOSED 36" NATURAL GAS PIPELINE
 CROSSING S. SIERRITA MOUNTAIN RD.
 PLAN AND PROFILE

SCALE & PROJECTION

20 10 0 20 40

PROJECTION: UTM, NAD83, ZONE 12, US FOOT

5173008

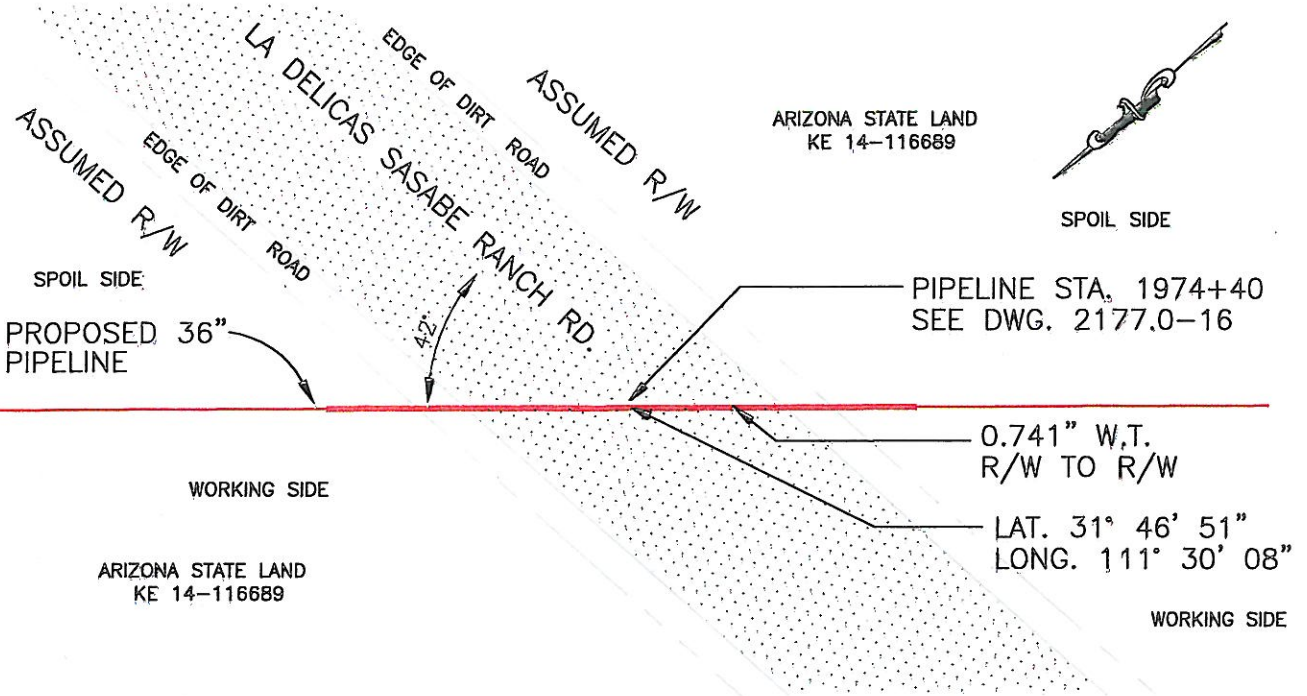
1 of 1

5/19/2014

Scott C. Allen

EXPIRES 6/30/2016

PIMA COUNTY, ARIZONA



PIPELINE CROSSING LENGTHS
R/W - R/W = 43'
DIRT ROAD SURFACE = 33'

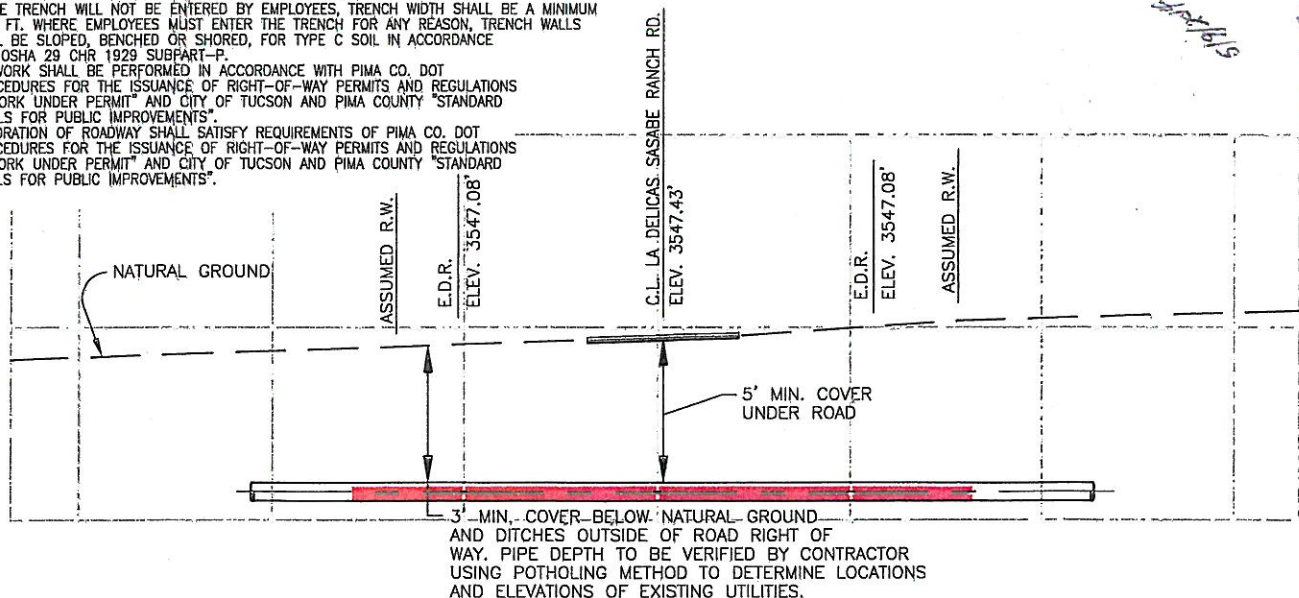
PLAN VIEW
SCALE: 1" = 30'

NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS.
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PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW W/ 14-16 MILS
FBE.



PROFILE
NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| A | ISSUED FOR REVIEW | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/30/14 |

| SCALE | AS NOTED |
|-----------------|-------------------|
| DRAWN | EMS DATE 10/08/13 |
| CHK'D | EMS DATE 01/30/14 |
| APPROVED | EMS DATE 01/30/14 |
| EMS JOB NO. | 5617 |
| AFE/P.O. NO. | |
| CLIENT FILE NO. | |
| EMS FILE NO. | 56173012 |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL
LA DELICAS SASABE RANCH RD. PIPELINE CROSSING
PIMA COUNTY ARIZONA

NO. 56173012
REV. E

PIMA COUNTY, ARIZONA



ARIZONA STATE LAND
KE 14-116689

ARIZONA STATE LAND
KE 14-116689

SPOIL SIDE
PROPOSED 36"
PIPELINE

SPOIL SIDE

PIPELINE STA. 2600+43
SEE DWG. 2177.0-21

WORKING SIDE

0.741" W.T.
R/W TO R/W

LAT. 31° 37' 21"
LONG. 111° 33' 48"

WORKING SIDE

R/W

R/W

W. PRESUMIDO RD.

EDGE OF DIRT ROAD

EDGE OF DIRT ROAD

PIPELINE CROSSING LENGTHS
R/W - R/W = 30'
DIRT ROAD SURFACE = 22'

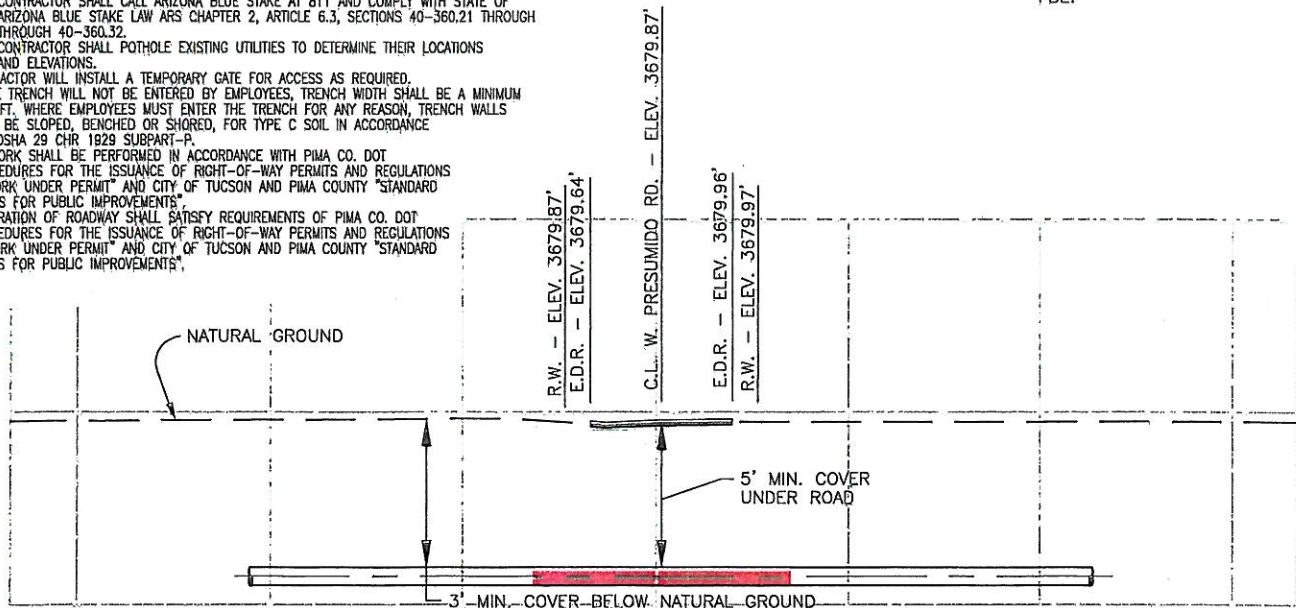
PLAN VIEW
SCALE: 1" = 30'

NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
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 - CONTRACTOR SHALL POthOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS.
- CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
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PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW W/ 14-16 MILS
FBE.



AND DITCHES OUTSIDE OF ROAD RIGHT OF WAY. PIPE DEPTH TO BE VERIFIED BY CONTRACTOR USING POTHOLING METHOD TO DETERMINE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.

PROFILE
NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| A | ISSUED FOR REVIEW | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/30/14 |

| SCALE | AS NOTED |
|-----------------|-------------------|
| DRAWN | EMS DATE 10/08/13 |
| CHK'D | EMS DATE 01/23/14 |
| APPROVED | EMS DATE 01/30/14 |
| EMS JOB NO. | 5617 |
| AFE/P.O. NO. | |
| CLIENT FILE NO. | |
| EMS FILE NO. | 56173013 |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL

W. PRESUMIDO RD. PIPELINE CROSSING

PIMA COUNTY

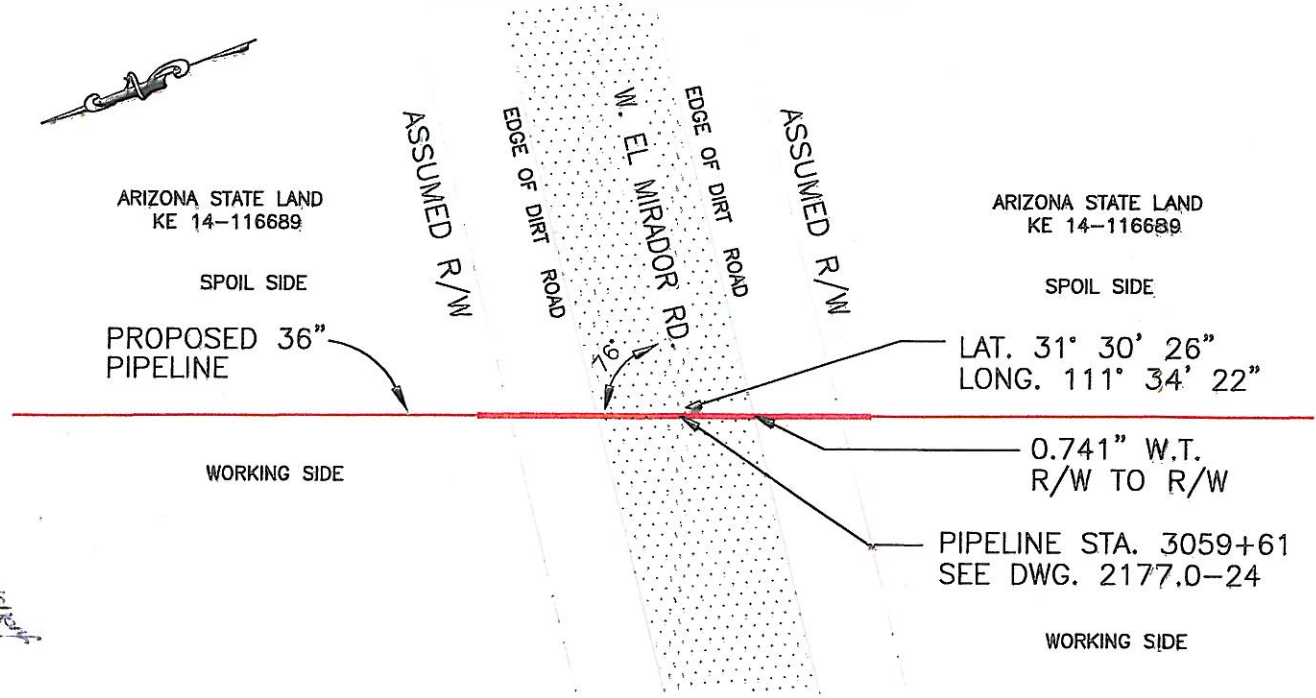
ARIZONA

NO.

56173013

REV.
E

PIMA COUNTY, ARIZONA



PIPELINE CROSSING LENGTHS
R/W - R/W = 48'
DIRT ROAD SURFACE = 30'

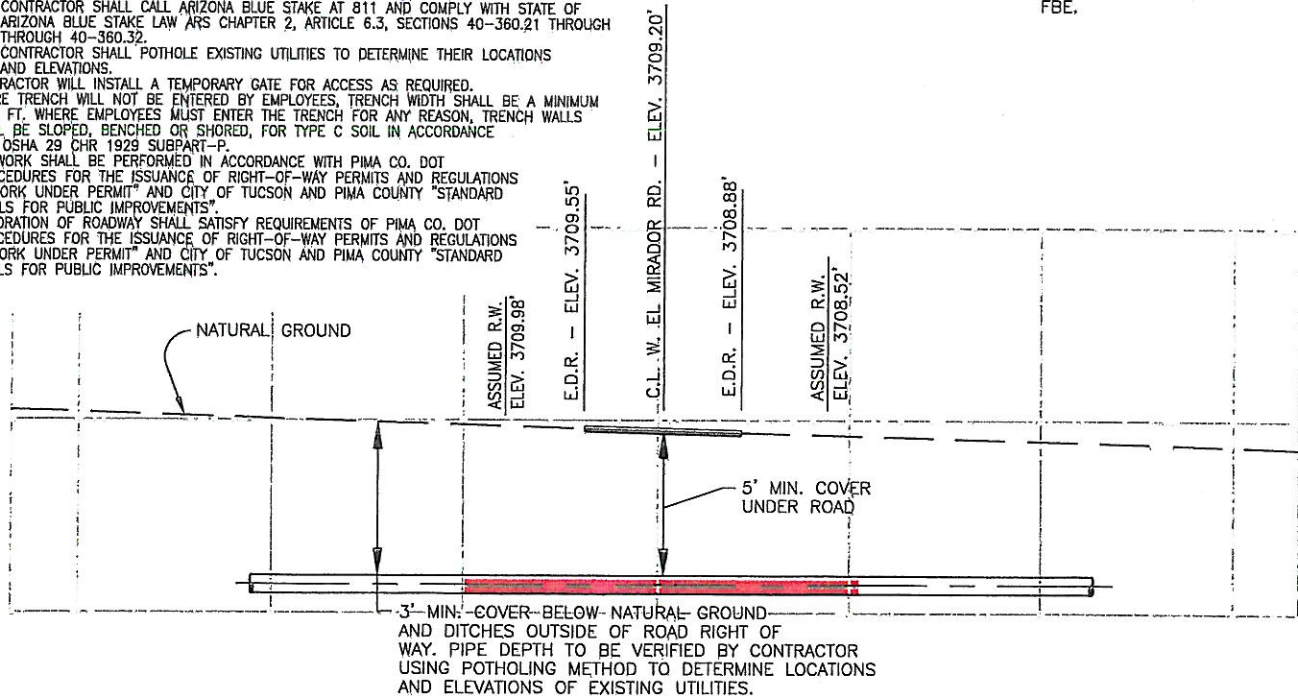
PLAN VIEW
SCALE: 1" = 30'

NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
 - CONTRACTOR SHALL POTHOLE EXISTING UTILITIES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS.
- CONTRACTOR WILL INSTALL A TEMPORARY GATE FOR ACCESS AS REQUIRED.
- WHERE TRENCH WILL NOT BE ENTERED BY EMPLOYEES, TRENCH WIDTH SHALL BE A MINIMUM OF 4 FT. WHERE EMPLOYEES MUST ENTER THE TRENCH FOR ANY REASON, TRENCH WALLS SHALL BE SLOPED, BENCHED OR SHORED, FOR TYPE C SOIL IN ACCORDANCE WITH OSHA 29 CFR 1926 SUBPART-P.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PIMA CO. DOT "PROCEDURES FOR THE ISSUANCE OF RIGHT-OF-WAY PERMITS AND REGULATIONS OF WORK UNDER PERMIT" AND CITY OF TUCSON AND PIMA COUNTY "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS".
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PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API 5L-X70 DSAW W/ 14-16 MILS FBE.



PROFILE
NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| A | ISSUED FOR REVIEW | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/29/14 |

| SCALE AS NOTED | | |
|-----------------------|-----|---------------|
| DRAWN | EMS | DATE 10/08/13 |
| CHK'D | EMS | DATE 01/22/14 |
| APPROVED | EMS | DATE 01/29/14 |
| EMS JOB NO. 5617 | | |
| AFE/P.O. NO. | | |
| CLIENT FILE NO. | | |
| EMS FILE NO. 56173015 | | |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL

W. EL MIRADOR RD. PIPELINE CROSSING

PIMA COUNTY

ARIZONA

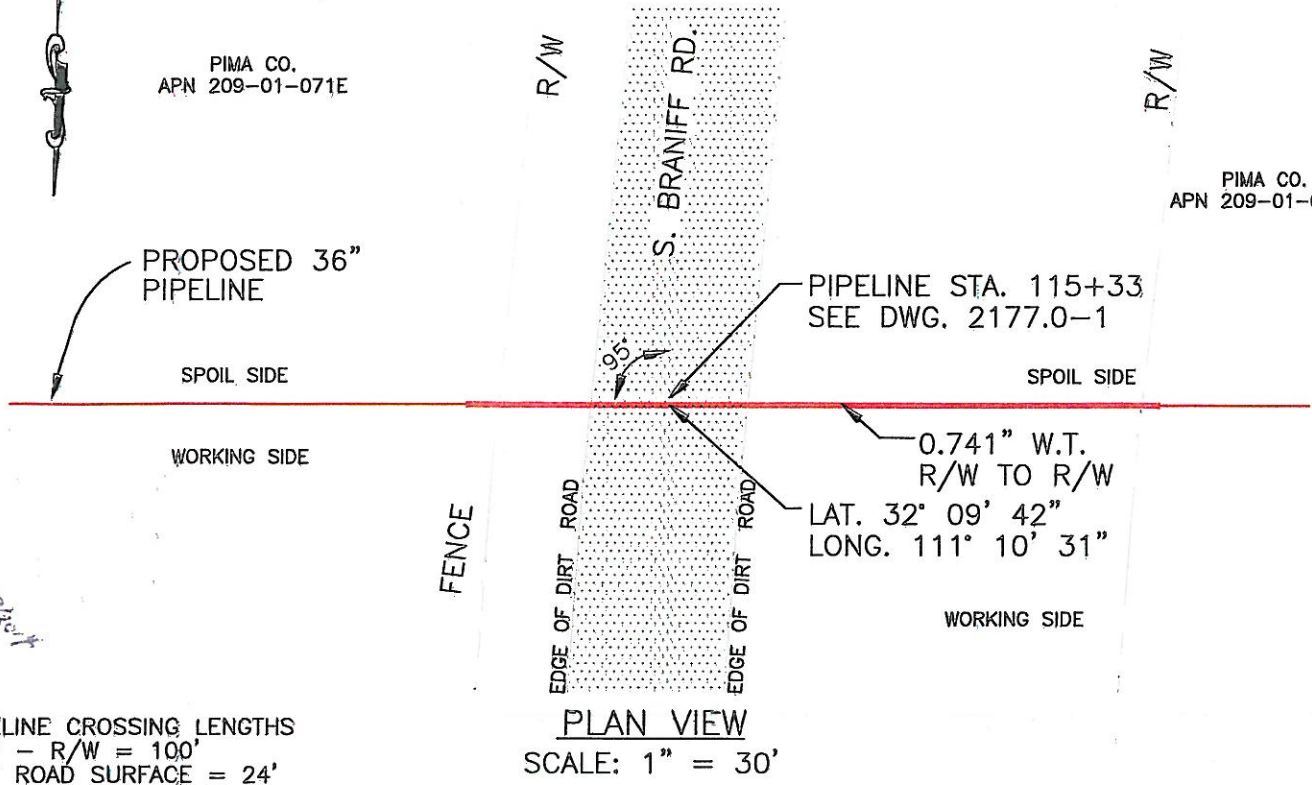
NO. 56173015

REV. E

PIMA COUNTY, ARIZONA

PIMA CO.
APN 209-01-071E

PIMA CO.
APN 209-01-0620



PIPELINE CROSSING LENGTHS
R/W - R/W = 100'
DIRT ROAD SURFACE = 24'

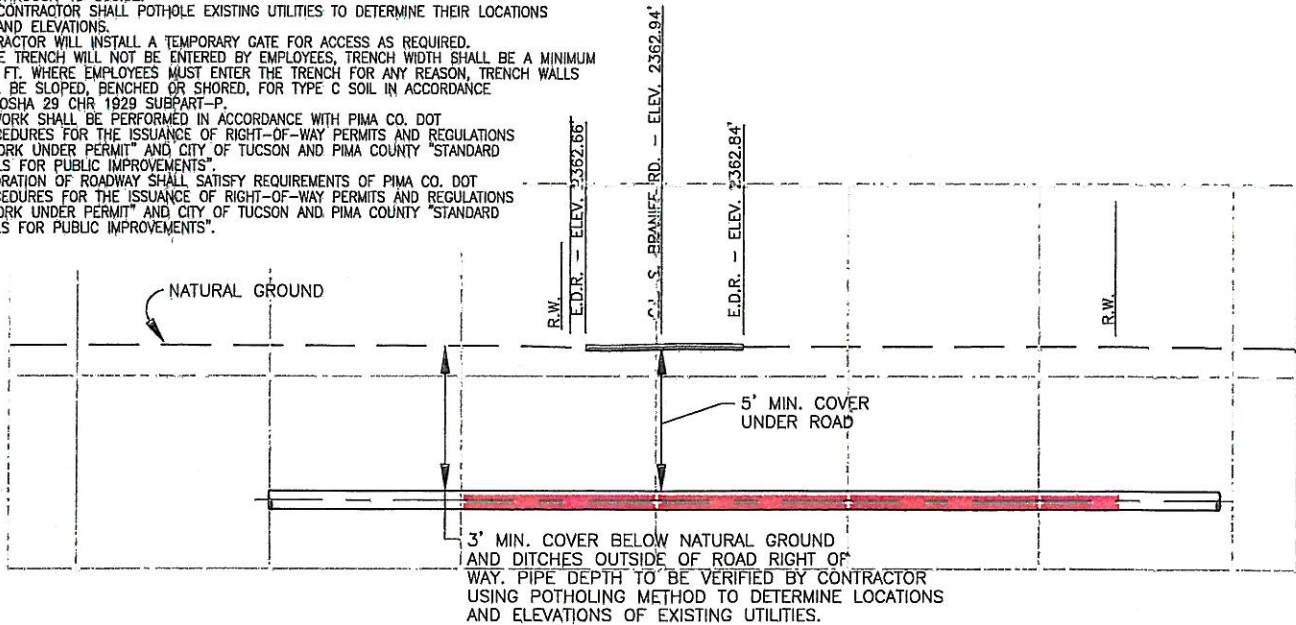
PLAN VIEW
SCALE: 1" = 30'

NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
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PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API
5L-X70 DSAW W/ 14-16 MILS
FBE.



PROFILE
NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| A | ISSUED FOR REVIEW | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/29/14 |

| SCALE | AS NOTED |
|-----------------|-------------------|
| DRAWN | EMS DATE 10/09/13 |
| CHK'D | EMS DATE 01/22/14 |
| APPROVED | EMS DATE 01/29/14 |
| EMS JOB NO. | 5617 |
| AFE/P.O. NO. | |
| CLIENT FILE NO. | |
| EMS FILE NO. | 56173016 |

SIERRITA GAS PIPELINE LLC

TITLE ROAD CROSSING DETAIL

S. BRANIFF RD. PIPELINE CROSSING

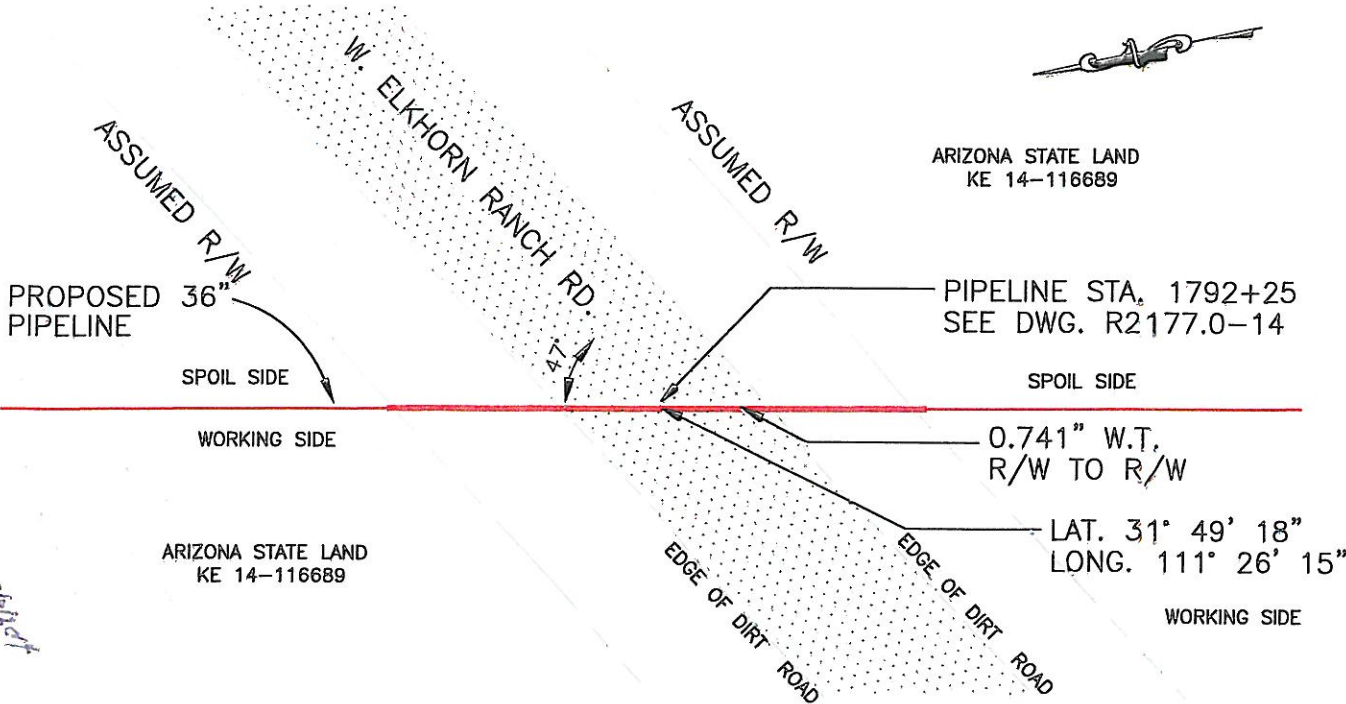
PIMA COUNTY

ARIZONA

NO. 56173016

REV.
E

PIMA COUNTY, ARIZONA



PIPELINE CROSSING LENGTHS
R/W - R/W = 60'
DIRT ROAD SURFACE = 33'

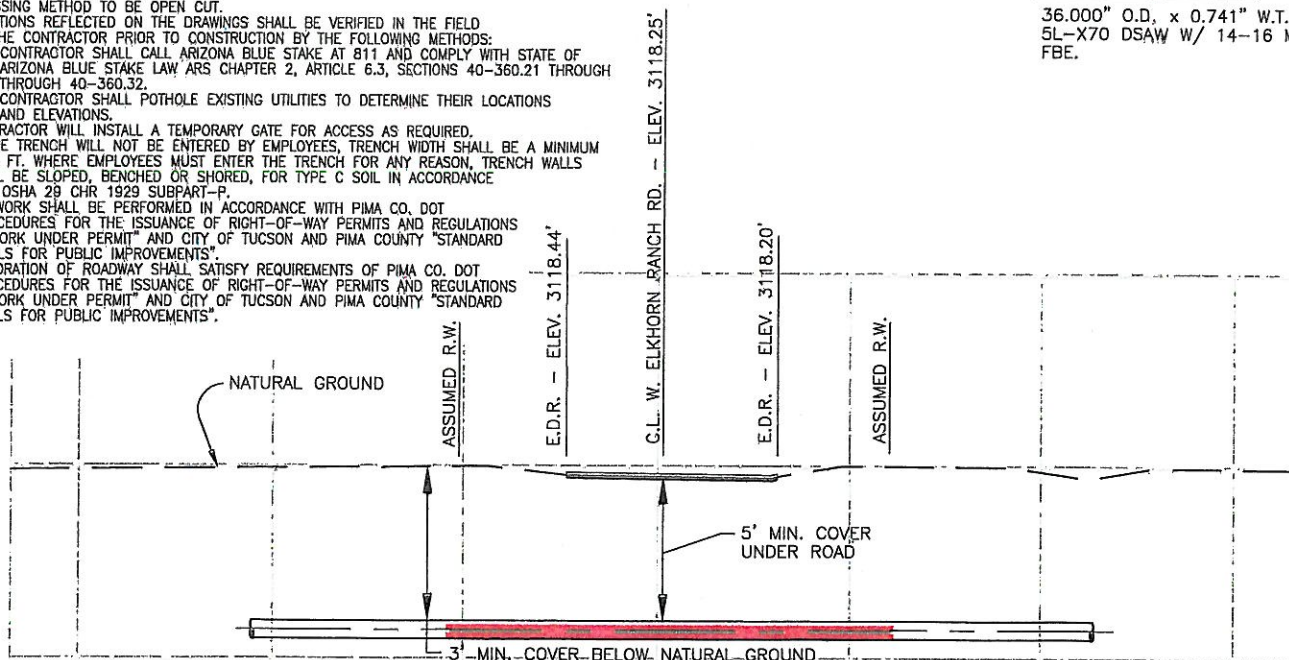
PLAN VIEW
SCALE: 1" = 30'

NOTES:

- CROSSING METHOD TO BE OPEN CUT.
- LOCATIONS REFLECTED ON THE DRAWINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION BY THE FOLLOWING METHODS:
 - CONTRACTOR SHALL CALL ARIZONA BLUE STAKE AT 811 AND COMPLY WITH STATE OF ARIZONA BLUE STAKE LAW ARS CHAPTER 2, ARTICLE 6.3, SECTIONS 40-360.21 THROUGH 40-360.32.
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PIPE DESCRIPTION:

36.000" O.D. x 0.741" W.T., API 5L-X70 DSAW W/ 14-16 MILS FBE.



PROFILE
NOT TO SCALE

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|----------|
| A | ISSUED FOR REVIEW | 11/14/13 |
| B | ISSUED FOR PERMIT | 12/20/13 |
| C | ISSUED FOR PERMIT | 01/15/14 |
| D | ISSUED FOR PERMIT | 01/23/14 |
| E | ISSUED FOR PERMIT | 01/29/14 |

| SCALE | AS NOTED |
|-----------------|-------------------|
| DRAWN | EMS DATE 10/08/13 |
| CHK'D | EMS DATE 01/28/14 |
| APPROVED | EMS DATE 01/29/14 |
| EMS JOB NO. | 5617 |
| AFE/P.O. NO. | |
| CLIENT FILE NO. | |
| EMS FILE NO. | 56173022 |

SIERRITA GAS PIPELINE LLC

| | |
|--|----------------------|
| TITLE | ROAD CROSSING DETAIL |
| W. ELKHORN RANCH RD. PIPELINE CROSSING | |
| PIMA COUNTY | ARIZONA |
| NO. | 56173022 |
| REV. | E |