

**TULSA  
COUNTY  
Engineering  
Division**

# **MEMORANDUM**

**DATE:** March 9, 2018

**TO:** Board of County Commissioners

**FROM:** Tom Rains, County Engineer 

**SUBJECT:** Utility permit for Oklahoma Natural Gas Company

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We present for your approval a utility permit for Oklahoma Natural Gas Company to cross N Yale Ave approximately 0.50 mi E of US 75. Installation will be by boring with a 2" & 4" line.

**TR:bd**  
**Attachments**

**Original:** Michael Willis, County Clerk, for the March 12, 2018 Agenda

**XC:** Commissioner Ron Peters  
Commissioner Karen Keith  
Commissioner John M. Smaligo, Jr.  
John Fothergill, Chief Deputy  
Vicki Adams, Chief Deputy  
Eddy Barclay, District One  
File

MAR 08 2018

## UTILITY PERMIT

## Engineering Department

TYPE OF INSTALLATION: Natural Gas Pipeline NO. \_\_\_\_\_

This authority executed in the original and three copies this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

By the Tulsa County Board of Commissioners, hereinafter called the "COUNTY", witnessed:

That the COUNTY does by these presents, grant to:

Applicant Oklahoma Natural Gas CompanyMailing Address 5848 E. 15th St.City Tulsa, Ok. Zip 74112A permit to erect, construct and maintain a natural gas pipeline along, upon or across the hereinafter described County Highway (s) for the purpose of transporting, selling, and using that portion of said County Highway (s) being shown on the attached drawing (s) and further described as follows:To Cross N. Yale Ave & E. 66th St. N. approximately 0.50  
Cross or parallel County Highway name or numbermiles E. of the US-75 and further described as 1,649 feet E. of the  
N.E.S.W. Junction or other definite point N.E.S.W.  
NE corner of Section 4, Township 20N, Range, 13E, Tulsa County.The installation will be made in the following manner: Boring  
(boring, pushing, cut slab, overhead crossing and other description)Size of Line: 2" & 4" Size of Casing: N/A

Exhibit A is a part of this permit.

This permit is granted subject to the following conditions, requirements and covenants, to-wit:

1. Work to be performed on County right-of-way must be under the direction of the Tulsa county Engineer, who must be notified of the time when the work is to begin. Under no circumstances will any work be done on County right-of-way until approval of the Tulsa County Engineer has been obtained.
2. One copy of an approved permit must be kept at the work site for inspection by the Tulsa County Engineer or his representative. Applicant will be required to have an inspector or engineer present at all time during construction to insure that installation is made in accordance with plans.
3. The applicant must agree to hold the COUNTY harmless for any damage (s) or injury (ies) to any person(s) or property (ies) caused by or resulting directly or indirectly from the construction, maintenance, operation or repair of the facilities on, under, or over the County right-of-way and must further agree to reimburse the COUNTY for any repair of any damage to COUNTY facilities caused by the construction and/or operation of the applicant's facility.
4. All work on the County right-of-way is to be done in accordance with the current Standard Specifications for Highway Construction, Oklahoma State Highway Commission, and at the conclusion of such work the right-of-way must be cleaned up and left in a presentable condition. This will include replacing any protective grass cover destroyed by trenching or operation of equipment, and correcting any other damage that may have been caused, as directed by the COUNTY. The applicant shall require the contractor or whoever installs the facilities to deposit with the COUNTY a cashier's check, certified check, cash or bond which is to insure the cost to the COUNTY for restoring the area to its original state, if not restored by the installer. The minimum deposit or bond will be based on fifty cents per lineal foot paralleling the highway, two dollars per lineal foot for boring and five dollars per lineal foot for trenching when trenching is necessary. The measurement to determine the amount of deposit shall be measured along centerline of trench for paralleling roadway, and for boring or trenching the measured centerline of trench from right-of-way line to right-of-way line. After final inspection by the County Engineer's Office, and an additional period of ninety days, the deposit less any amount not used to restore the area shall be returned to the depositor.
5. The applicant must furnish all flagmen, lights, barricades, and warning signs deemed necessary by the COUNTY, during the construction maintenance, or repair of its facilities on the County right-of-way.
6. When notified to do so by the COUNTY, the applicant agrees to make all changes in the facilities on a County right-of-way at the applicant's own expense, unless otherwise provided by law or order of the COUNTY.
7. Clearance above the traffic lanes of the highway at all pole line crossings should comply with applicable safety codes, but will not be less than 20 feet at a temperature of 69 degrees Fahrenheit. All poles, posts, stubs, fixtures, down guys, wires, and other appurtenances must be kept in good repair at all times and must be free from weeds and brush within a 5-foot area no more than 4 feet inside the right-of-way line, unless otherwise approved by the COUNTY.
8. All underground crossing of the right-of-way must be encased from right-of-way line to right-of-way line at a minimum depth of 48 inches below the bottom of the surfacing, but not less than 30 inches below the bottom of the ditches, unless otherwise approved by the COUNTY.

All encased crossings must be sealed at both ends and vented outside of right-of-way line. The vents should be sized to allowed proper release of carrier pipe contents in case of failure. The minimum pipe size for vents is 2-inch nominal, and the vent must extend a minimum of 36 inches above natural ground level. The owner must install identification markers at each right-of-way line directly above the facility. Such markers may be attached to vents or to a right-of-way fence. The markers may be in the owner's standard design, but must identify the owner and size of the facility, and must be erected at a location plainly visible from within the highway right-of-way.

The casing must be designed to sustain roadway loadings, contain and divert from the roadway the contents of the carrier pipe, and to have a life expectancy equal to or greater than the carrier pipe.

Encasement for underground telephone and power lines, or similar facilities, should comply with the above except for the installation of vents, end seals, and the ability to contain and divert.

Steel pipelines crossing the right-of-way may be installed without encasement if the installation is in accordance with "Special Provisions for the Installation of Underground Pipelines...". This Special Provision stipulates in part that carrier pipe material within the right-of-way must be superior to the carrier pipe material outside the right-of-way by being of steel at least one grade better, or a minimum of one wall width thicker and the same alloy. Pipe must be 48 inches below the flow line of drainage ditches and all other highway drainage facilities, and must be properly protected from corrosion.

Nonpressurized facilities, such as sanitary sewer lines, crossing the highway right-of-way may be approved without the use of encasement, if cast iron or material of equal or better quality is used, with the understanding that maintenance will be performed by a method that will not disturb the through lanes or interfere with traffic.

All underground crossings must be installed by boring or pushing or other approved methods. The method and equipment for the installation must be approved by the COUNTY. Wet boring or jetting will not be permitted unless special approval is obtained from the COUNTY. If considered necessary, pressure grouting of the voids will be required. This will generally be required when the diameter of the bore exceeds the outside diameter of the pipe by two inches or more. In the interest of safety, trenching and the parking of equipment should be performed as far as possible from traffic lanes. In unusual cases where trenching is necessary, a special plan with specifications will be developed by the owner with assistance from the COUNTY, setting out the method for controlling the traffic, placement of the facility, and proper restoration of the roadway. This method must bear the recommendation of the COUNTY.

Parallel facilities must be installed no more than 4 feet inside the right-of-way line and buried a minimum depth of 30 inches below the ditch flow line. The ditch must be backfilled to a density equal to the adjacent soil, and approved by the COUNTY.

- 9. The applicant must agree to refrain from disturbing trees, shrubbery or any part of the landscape without approval of the COUNTY. If it becomes necessary to disturb trees or shrubbery, applicant intentions must be plainly stated in the application, which will include size and kind of trees and shrubs, and disposition during installation.
- 10. Blasting will not be permitted within the highway right-of-way except in unusual cases and only with special approval from the County Engineer.
- 11. The applicant must agree to hold the COUNTY harmless for any and all damage that the utility facilities might sustain while occupying County right-of-way.
- 12. Applicant assures that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1973, 33 V.S.C. 1334.

13. Contractor for this project B&H Construction, LLC, address 301 James Dean Dr.  
405.288.2412 Norman, OK 73072

This permit may be revoked for noncompliance.

Accepted this 6th day of March, 2018

Oklahoma Natural Gas Company  
Owner of Utility

Teena Birdsall  
Authorized Representative of Company

Teena Birdsall, Contract Analyst

Kris Mendoza (918) 831-8376  
Contact Person & Phone #

Attest: \_\_\_\_\_  
Secretary

Accepted this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

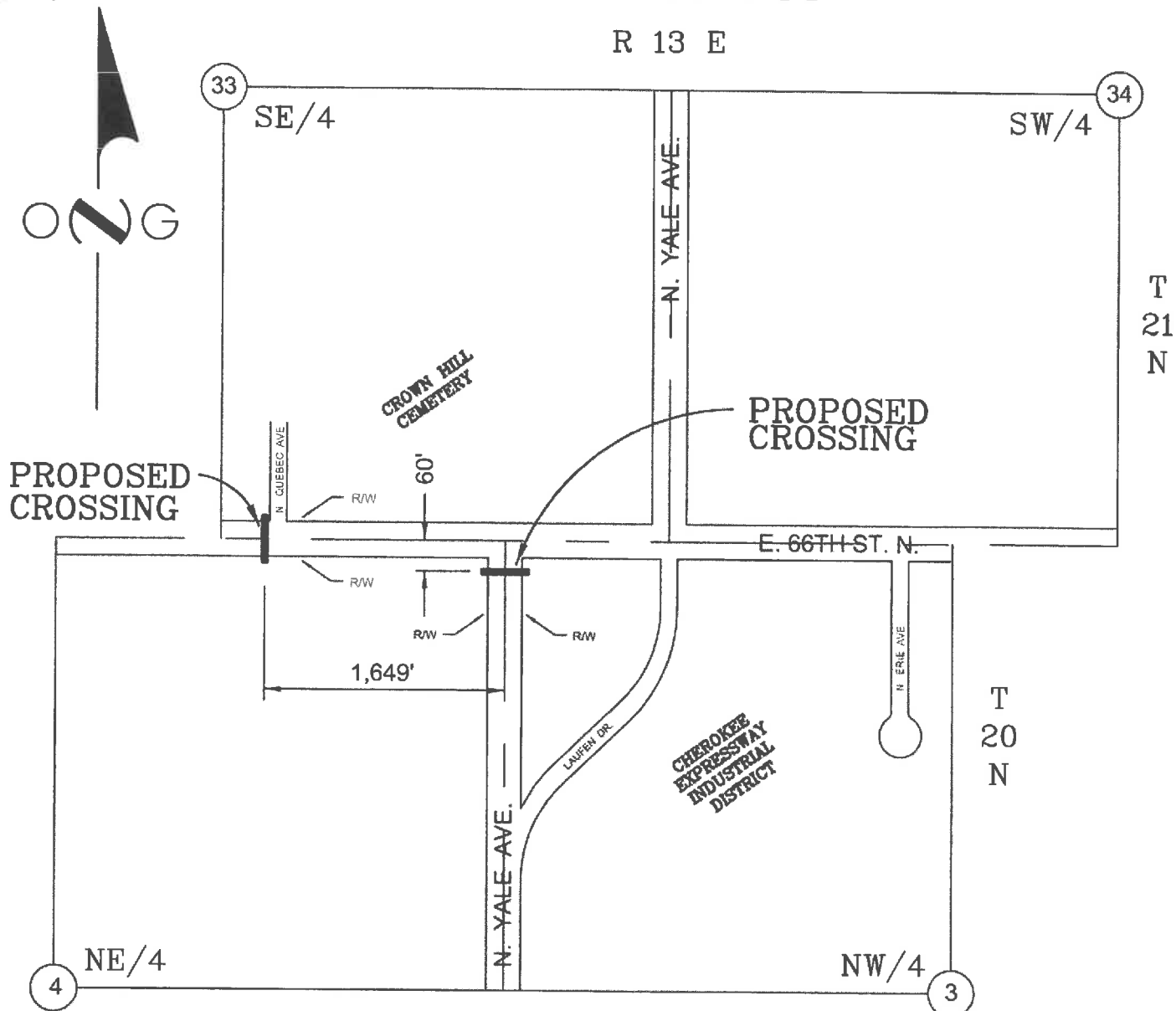
BOARD OF COUNTY COMMISSIONERS  
TULSA COUNTY, OKLAHOMA

\_\_\_\_\_  
Chairman

Attest: \_\_\_\_\_  
County Clerk

# TULSA COUNTY

R 13 E



## CROSSING (N. YALE AVE.)

- \* 2 3/8" OD API-5L, ERW, X-52, 3.66#, .154" WT PIPE INSIDE R/W
- 6 5/8" OD ASTM D2513 PE2406, 4.717#, .576" WT PLASTIC PIPE OUTSIDE R/W  
(500# MFG TEST PRESSURE)
- BORED 48" MIN BELOW HWY SURFACE
- 48" MIN BELOW DRAINAGE DITCH
- \* 3000# MFG MIN TEST PRESSURE
- 100# ONG MIN TEST PRESSURE
- 30# NORMAL W.P.
- 60# MAX W.P.

## CROSSING (E. 66TH ST. N.)

- \* 4 1/2" OD ASTM D2513 PE3408 2.3# .409" WT H.D. PIPE INSIDE R/W  
(100# MFG MAOP)
- 4 1/2" OD ASTM D2513 PE2406 2.17# .391" WT PLASTIC PIPE OUTSIDE R/W  
(60# MFG MAOP)
- BORED 48" MIN BELOW HWY SURFACE
- 48" MIN BELOW DRAINAGE DITCH
- \* 1600 # MFG MIN TEST PRESSURE
- 100 # ONG MIN TEST PRESSURE
- 30# NORMAL W.P.
- 60# MAX W.P.

1.15 MILES EAST AND 3.47  
MILES NORTH OF JUNCTION OF  
GILCREASE EXPY AND US HWY 75

4187 E. 66TH ST. N.

### OKLAHOMA NATURAL GAS COMPANY

TULSA DISTRIBUTION

**PROPOSED 2" GAS PIPE LINE  
CROSSING N. YALE AVE. AND 4" GAS  
PIPE LINE CROSSING E. 66TH ST. N.**

DESIGNED -	SURVEY -	DATE 3-5-18
DRAWN K.E.R.	J.O. 021.052.2980.010152	SCALE NONE
CHECKED J.N.	R/W -	SHEET 1
FILE	DWG. 2980-39-18CP	OF 1

**TULSA  
COUNTY**  
Engineering  
Division

# MEMORANDUM

**DATE:** March 9, 2018

**TO:** Board of County Commissioners

**FROM:** Tom Rains, County Engineer



**SUBJECT:** Utility permit for Oklahoma Natural Gas Company

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We present for your approval a utility permit for Oklahoma Natural Gas Company to cross and parallel E 171<sup>st</sup> St approximately 1.01 mi E of US Hwy 75. Installation will be by boring and paralleling on north side of road with a 4" line.

TR:bd  
Attachments

**Original:** Michael Willis, County Clerk, for the March 12, 2018 Agenda

**XC:** Commissioner Ron Peters  
Commissioner Karen Keith  
Commissioner John M. Smaligo, Jr.  
John Fothergill, Chief Deputy  
Vicki Adams, Chief Deputy  
Robbie Thompson, District Three  
File

MAR 09 2018

## UTILITY PERMIT

Engineering Department

NO. \_\_\_\_\_

TYPE OF INSTALLATION: Natural Gas Pipeline

This authority executed in the original and three copies this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

By the Tulsa County Board of Commissioners, hereinafter called the "COUNTY", witnessed:

That the COUNTY does by these presents, grant to:

Applicant Oklahoma Natural Gas CompanyMailing Address 5848 E. 15th St.City Tulsa, Ok. Zip 74112

A permit to erect, construct and maintain a 4" natural gas pipeline along, upon or across the hereinafter described County Highway (s) for the purpose of transporting, selling, and using that portion of said County Highway (s) being shown on the attached drawing (s) and further described as follows:

To Cross & Parallel E. 171st St. approximately 1.01  
Cross or parallel County Highway name or number

miles E. of the US Hwy 75 and further described as 1,030 feet E. of the  
N.E.S.W. Junction or other definite point N.E.S.W.

SW corner of Section 25, Township 17N, Range, 12E, Tulsa County.

The installation will be made in the following manner: Boring and Paralleling on North Side of Road  
(boring, pushing, cut slab, overhead crossing and other description)

Size of Line: 4" Size of Casing: N/A

Exhibit A is a part of this permit.

This permit is granted subject to the following conditions, requirements and covenants, to-wit:

1. Work to be performed on County right-of-way must be under the direction of the Tulsa county Engineer, who must be notified of the time when the work is to begin. Under no circumstances will any work be done on County right-of-way until approval of the Tulsa County Engineer has been obtained.
2. One copy of an approved permit must be kept at the work site for inspection by the Tulsa County Engineer or his representative. Applicant will be required to have an inspector or engineer present at all time during construction to insure that installation is made in accordance with plans.
3. The applicant must agree to hold the COUNTY harmless for any damage (s) or injury (ies) to any person(s) or property (ies) caused by or resulting directly or indirectly from the construction, maintenance, operation or repair of the facilities on, under, or over the County right-of-way and must further agree to reimburse the COUNTY for any repair of any damage to COUNTY facilities caused by the construction and/or operation of the applicant's facility.
4. All work on the County right-of-way is to be done in accordance with the current Standard Specifications for Highway Construction, Oklahoma State Highway Commission, and at the conclusion of such work the right-of-way must be cleaned up and left in a presentable condition. This will include replacing any protective grass cover destroyed by trenching or operation of equipment, and correcting any other damage that may have been caused, as directed by the COUNTY. The applicant shall require the contractor or whoever installs the facilities to deposit with the COUNTY a cashier's check, certified check, cash or bond which is to insure the cost to the COUNTY for restoring the area to its original state, if not restored by the installer. The minimum deposit or bond will be based on fifty cents per lineal foot paralleling the highway, two dollars per lineal foot for boring and five dollars per lineal foot for trenching when trenching is necessary. The measurement to determine the amount of deposit shall be measured along centerline of trench for paralleling roadway, and for boring or trenching the measured centerline of trench from right-of-way line to right-of-way line. After final inspection by the County Engineer's Office, and an additional period of ninety days, the deposit less any amount not used to restore the area shall be returned to the depositor.
5. The applicant must furnish all flagmen, lights, barricades, and warning signs deemed necessary by the COUNTY, during the construction maintenance, or repair of its facilities on the County right-of-way.
6. When notified to do so by the COUNTY, the applicant agrees to make all changes in the facilities on a County right-of-way at the applicant's own expense, unless otherwise provided by law or order of the COUNTY.
7. Clearance above the traffic lanes of the highway at all pole line crossings should comply with applicable safety codes, but will not be less than 20 feet at a temperature of 69 degrees Fahrenheit. All poles, posts, stubs, fixtures, down guys, wires, and other appurtenances must be kept in good repair at all times and must be free from weeds and brush within a 5-foot area no more than 4 feet inside the right-of-way line, unless otherwise approved by the COUNTY.
8. All underground crossing of the right-of-way must be encased from right-of-way line to right-of-way line at a minimum depth of 48 inches below the bottom of the surfacing, but not less than 30 inches below the bottom of the ditches, unless otherwise approved by the COUNTY.

All encased crossings must be sealed at both ends and vented outside of right-of-way line. The vents should be sized to allowed proper release of carrier pipe contents in case of failure. The minimum pipe size for vents is 2-inch nominal, and the vent must extend a minimum of 36 inches above natural ground level. The owner must install identification markers at each right-of-way line directly above the facility. Such markers may be attached to vents or to a right-of-way fence. The markers may be in the owner's standard design, but must identify the owner and size of the facility, and must be erected at a location plainly visible from within the highway right-of-way.

The casing must be designed to sustain roadway loadings, contain and divert from the roadway the contents of the carrier pipe, and to have a life expectancy equal to or greater than the carrier pipe.

Encasement for underground telephone and power lines, or similar facilities, should comply with the above except for the installation of vents, end seals, and the ability to contain and divert.

Steel pipelines crossing the right-of-way may be installed without encasement if the installation is in accordance with "Special Provisions for the Installation of Underground Pipelines...". This Special Provision stipulates in part that carrier pipe material within the right-of-way must be superior to the carrier pipe material outside the right-of-way by being of steel at least one grade better, or a minimum of one wall width thicker and the same alloy. Pipe must be 48 inches below the flow line of drainage ditches and all other highway drainage facilities, and must be properly protected from corrosion.

Nonpressurized facilities, such as sanitary sewer lines, crossing the highway right-of-way may be approved without the use of encasement, if cast iron or material of equal or better quality is used, with the understanding that maintenance will be performed by a method that will not disturb the through lanes or interfere with traffic.

All underground crossings must be installed by boring or pushing or other approved methods. The method and equipment for the installation must be approved by the COUNTY. Wet boring or jetting will not be permitted unless special approval is obtained from the COUNTY. If considered necessary, pressure grouting of the voids will be required. This will generally be required when the diameter of the bore exceeds the outside diameter of the pipe by two inches or more. In the interest of safety, trenching and the parking of equipment should be performed as far as possible from traffic lanes. In unusual cases where trenching is necessary, a special plan with specifications will be developed by the owner with assistance from the COUNTY, setting out the method for controlling the traffic, placement of the facility, and proper restoration of the roadway. This method must bear the recommendation of the COUNTY.

Parallel facilities must be installed no more than 4 feet inside the right-of-way line and buried a minimum depth of 30 inches below the ditch flow line. The ditch must be backfilled to a density equal to the adjacent soil, and approved by the COUNTY.

- 9. The applicant must agree to refrain from disturbing trees, shrubbery or any part of the landscape without approval of the COUNTY. If it becomes necessary to disturb trees or shrubbery, applicant intentions must be plainly stated in the application, which will include size and kind of trees and shrubs, and disposition during installation.
- 10. Blasting will not be permitted within the highway right-of-way except in unusual cases and only with special approval from the County Engineer.
- 11. The applicant must agree to hold the COUNTY harmless for any and all damage that the utility facilities might sustain while occupying County right-of-way.
- 12. Applicant assures that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1973, 33 V.S.C. 1334.

13. Contractor for this project B&H Construction, LLC, address 301 James Dean Dr.  
405.288.2412 Norman, OK 73072

This permit may be revoked for noncompliance.

Accepted this 7th day of march, 2018.

Oklahoma Natural Gas Company  
Owner of Utility

Teena Birdsall  
Authorized Representative of Company

Teena Birdsall, Contract Analyst  
Title

Aaron Votruba 918-831-8374  
Contact Person & Phone #

Attest: \_\_\_\_\_  
Secretary

Accepted this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

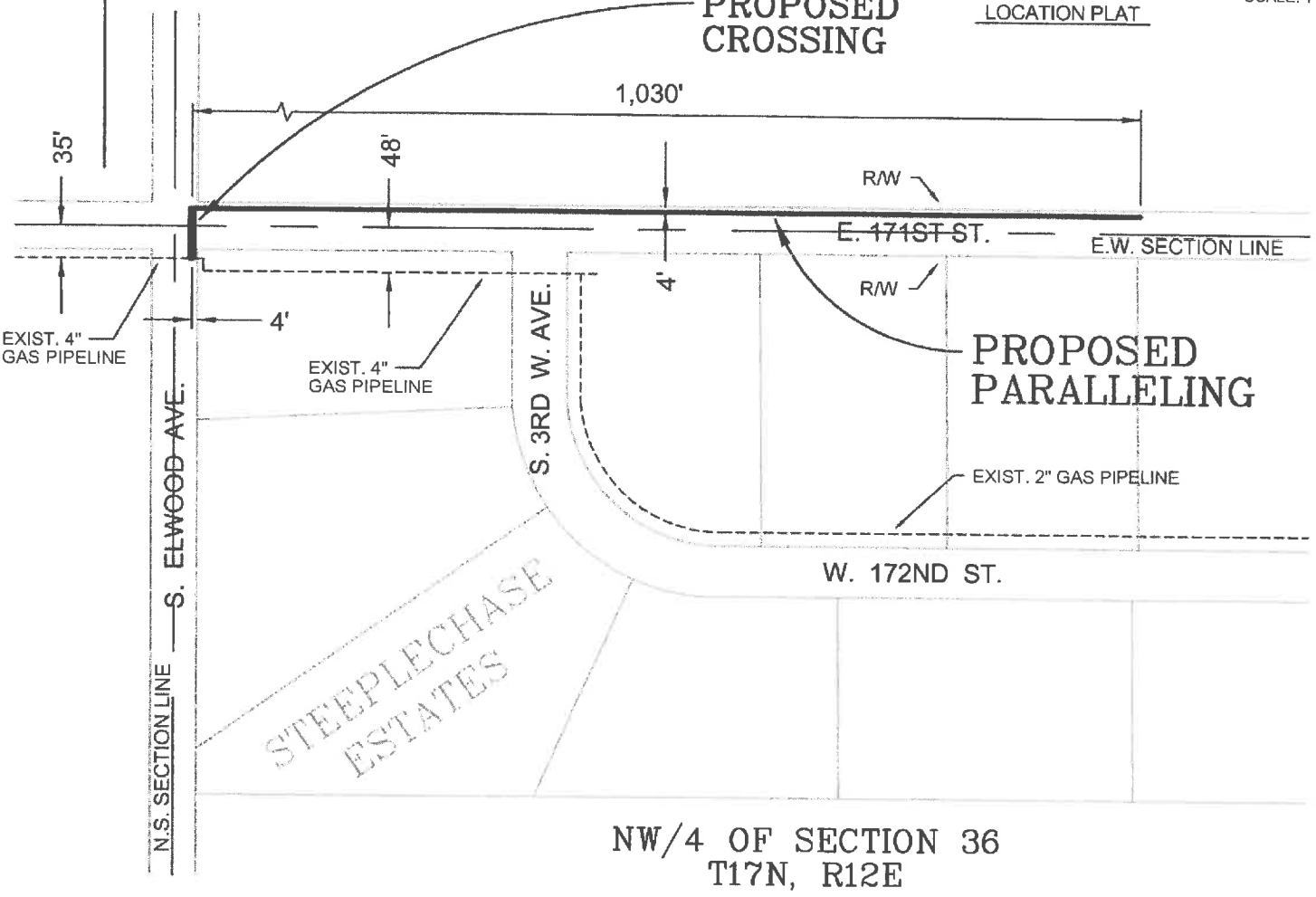
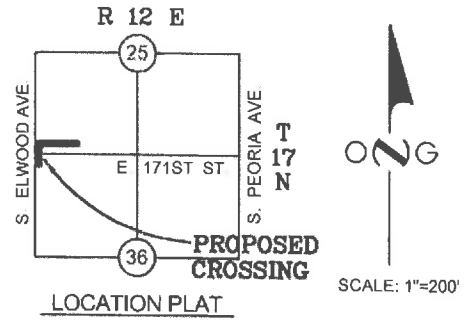
BOARD OF COUNTY COMMISSIONERS  
TULSA COUNTY, OKLAHOMA

\_\_\_\_\_  
Chairman

Attest: \_\_\_\_\_  
County Clerk

# TULSA COUNTY

SW/4 OF SECTION 25  
T17N, R12E



NW/4 OF SECTION 36  
T17N, R12E

### CROSSING

- \* 4 1/2"OD ASTM D2513 PE3408 2.3# .409"WT H.D. PIPE INSIDE RW  
(100# MFG MAOP)
- 4 1/2"OD ASTM D2513 PE2406 2.17# .391"WT PLASTIC PIPE OUTSIDE RW  
(60# MFG MAOP)
- BORED 48" MIN BELOW HWY SURFACE  
48" MIN BELOW DRAINAGE DITCH
- \* 1600 # MFG MIN TEST PRESSURE  
100 # ONG MIN TEST PRESSURE  
30# NORMAL W.P.  
60# MAX W.P.

### PARALLELING

- \* 1,030' OF 4 1/2"OD ASTM D2513 PE2406 2.17# .391"WT PLASTIC PIPE  
(60# MFG MAOP)
- 30" MIN COVER
- \* 500 # MFG MIN TEST PRESSURE  
100 # ONG MIN TEST PRESSURE  
30# NORMAL W.P.  
60# MAX W.P.

1.99 MILES SOUTH AND 1.01  
MILES EAST OF JUNCTION OF  
US HWY 75 AND ST HWY 67

E. 171ST ST. AND S. ELWOOD AVE.

## OKLAHOMA NATURAL GAS COMPANY

GLENPOOL DISTRIBUTION

**PROPOSED 4" GAS PIPE LINE  
CROSSING AND PARALLELING  
E. 171ST ST.**

DESIGNED -	SURVEY -	DATE 3-7-18
DRAWN K.E.R.	J.O. 021.052.2980.010151	SCALE NONE
CHECKED J.N.	RW -	SHEET 1
FILE	DWG. 2980-40-18CP	OF 1