

22

# AGREEMENT FOR LICENSE ADJACENT TO OR CROSSING COUNTY ROADS

STATE OF TEXAS §

COUNTY OF NAVARRO §

KNOW ALL MEN BY THESE PRESENTS:

ATMOS ENERGY, Owner of a (pipeline, utility line, gas or sewer line) hereby contracts and covenants with **Navarro County ("the County")** as follows:

I. ATMOS ENERGY, desires to construct and maintain a pipeline, utility line, or gas or sewer line in Navarro County, Texas and it is necessary to cross certain county road(s) 0025, 0020, 0050, 0080 located in Precinct # 3, more fully described on the map attached hereto as Exhibit A and incorporated herein by reference. The license granted herein shall extend 5 feet on either side of the pipeline as it crosses the county road.

II. In consideration for **the County** granting permission through the issuance of a permit to lay a pipeline, utility line, or gas or sewer line adjacent to or crossing said county roads above described in Navarro County, Texas, the **Owner** hereby warrants, agrees and covenants that any crossing shall be constructed as follows:

All county road crossings shall be bored unless a variance is granted by Navarro County Commissioners Court, and lines underneath such roads shall be cased or otherwise constructed to provide maximum protection against damage or leaks. Owner may not block the county road during construction and must provide for at least one lane of traffic. The points where the pipeline crosses the road shall be clearly marked and the line shall be placed at a depth of no less than 6 feet underneath the lowest part of the **County's** bar ditches and/or road surfaces.

Type of Pipeline: NATURAL GAS

The transport route (beginning and end): ANGUS TO RICHLAND

(A detailed construction plan must be submitted with application)

Pipelines which run adjacent to a county road and which are within a county road easement shall be placed at a depth of no less than 6 feet underneath the lowest part of the **County's** bar ditches and/or road surfaces.

The pipeline shall be constructed in a safe and prudent manner and shall consist of only acceptable commercial pipeline materials. The **Owner** shall be responsible for maintaining the pipeline and the license area. In the event the pipeline is ever abandoned or ceases be used for more than 6 consecutive months, this

review of Remedial Work. If **Owner** shall fail to timely commence or cause to be commenced, or fail to diligently prosecute to completion, such Remedial Work, **the County** may (but shall not be required to), after first giving **Owner** thirty (30) days notice of its failure and **Owner**'s continued failure to perform, cause such Remedial Work to be performed and **Owner** will reimburse all reasonable costs of same on demand. The provisions of this Article shall not constitute approval or obligate **The County** or the surface owner to consent to the imposition of any engineering or institutional control that would restrict or limit future use of the License area for any purpose including, without limitation, any deed restriction or limitation on the use of groundwater or use of the property for residential purposes. **Owner** will notify **the County** and surface owner of any claim or other action by any governmental agency or any third party involving the actual or alleged existence of Hazardous Materials on the License area or any adjoining property and provide **the County** and surface owner with copies of (1) any notice of any actual or threatened release of Hazardous Materials given by **Owner** pursuant to any law and (2) any report of and response to any such release including all Remedial Work. **Owner**, its successors and assigns, in accordance with the provisions of Article 8, will release, indemnify, pay and protect, defend and save the Indemnified Parties harmless from all claims, liabilities, fees and expenses of any kind (including reasonable attorneys' fees, expert fees and costs) that arise from the actual or alleged presence or release of any Hazardous Materials in connection with the operations of **Owner** and **Owner**'s agents, invitees, guests, contractors, servants and employees on the License area or any adjacent property. Such indemnification shall include, without limitation, costs in connection with any Remedial Work performed by **the County**, surface owner, or any third party in response to any federal, state or governmental authority, laws or regulations, due and payable upon demand by **the County** or adjacent surface owner. **Owner**'s obligations herein shall survive the termination of this License.

VII. This Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, legal representatives, successors, and assigns.

VIII. This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created by this Agreement are performable in Navarro County, Texas.

review of Remedial Work. If **Owner** shall fail to timely commence or cause to be commenced, or fail to diligently prosecute to completion, such Remedial Work, **the County** may (but shall not be required to), after first giving **Owner** thirty (30) days notice of its failure and **Owner's** continued failure to perform, cause such Remedial Work to be performed and **Owner** will reimburse all reasonable costs of same on demand. The provisions of this Article shall not constitute approval or obligate **The County** or the surface owner to consent to the imposition of any engineering or institutional control that would restrict or limit future use of the License area for any purpose including, without limitation, any deed restriction or limitation on the use of groundwater or use of the property for residential purposes. **Owner** will notify **the County** and surface owner of any claim or other action by any governmental agency or any third party involving the actual or alleged existence of Hazardous Materials on the License area or any adjoining property and provide **the County** and surface owner with copies of (1) any notice of any actual or threatened release of Hazardous Materials given by **Owner** pursuant to any law and (2) any report of and response to any such release including all Remedial Work. **Owner**, its successors and assigns, in accordance with the provisions of Article 8, will release, indemnify, pay and protect, defend and save the Indemnified Parties harmless from all claims, liabilities, fees and expenses of any kind (including reasonable attorneys' fees, expert fees and costs) that arise from the actual or alleged presence or release of any Hazardous Materials in connection with the operations of **Owner** and **Owner's** agents, invitees, guests, contractors, servants and employees on the License area or any adjacent property. Such indemnification shall include, without limitation, costs in connection with any Remedial Work performed by **the County**, surface owner, or any third party in response to any federal, state or governmental authority, laws or regulations, due and payable upon demand by **the County** or adjacent surface owner. **Owner's** obligations herein shall survive the termination of this License.

VII. This Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, legal representatives, successors, and assigns.

VIII. This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created by this Agreement are performable in Navarro County, Texas.

grow out of, arise from, or in any manner be connected with the activities of **Owner's** agents, invitees, guests, contractors, servants and employees, on the license area, or any adjacent property, including, without limitation, any Claims arising from loss of subsurface support of any County road and any Claims arising from the production or transportation of materials through any pipeline. For purposes of this license, environmental laws and regulations include, without limitation, the federal Oil Pollution Act (OPA), the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the federal Resource Conservation and Recovery Act (RCRA), the federal Clean Water Act, the Texas Solid Waste Disposal Act (TSWDA), the Texas Water Code (TWC), and the federal, state and local rules, regulations, ordinances, orders and governmental directives implementing such statutes.

As used in this license, the term "**Hazardous Materials**" means any substance or material defined or identified as hazardous, extra-hazardous, toxic or radioactive or subject to regulation as a solid waste or pollutant under any applicable federal, state, or local statute or regulation including, without limitation, the environmental laws and regulations referenced herein. "**Remedial Work**" is defined as any site investigation or monitoring, any cleanup, containment, remediation, removal, or restoration work performed in response to any federal, state or local government authority or private party action ("**action**"), or pursuant to any federal, state or local statute, rule, regulation, ordinance, order, governmental directive or other laws ("**law**"). **Owner** agrees, for the benefit of **the County** and any adjacent surface owner, (1) to remove from the license area, if, as and when required by any action or law, any Hazardous Materials placed or released thereon by **Owner** (including its contractors), (2) to perform Remedial Work where the need therefore arises in connection with **Owner's** (including its contractors) operations or activities on the license area or any adjacent property, and (3) to comply in all respects with all laws governing operations by **Owner** (including its contractors) and Remedial Work on or associated with the license area and any adjacent property. Remedial Work shall be performed by one or more contractors selected by **Owner** under the supervision of an engineer selected by **Owner**. All costs and expenses of Remedial Work resulting from **Owner's** (including its drillers' and other contractors') operations shall be paid by **Owner**, including, without limitation, the charges of such contractors and/or the consulting engineer and **the County's** reasonable attorneys' fees and costs incurred in connection with the monitoring or

IX. In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal, or unenforceable in any respect, this invalidity, illegality, or unenforceability shall not affect any other provision of the Agreement, and this Agreement shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in the Agreement.

X. The rights and remedies provided by this Agreement are cumulative, and the use of any one right or remedy by either party shall not preclude or waive its right to use any or all other remedies. The rights and remedies provided in this Agreement are given in addition to any other rights the parties may have by law, statute, ordinance, or otherwise.

EXECUTED this 5<sup>th</sup> day of MAY, 2021.

**OWNER**

By: [Signature], its RIGHT OF WAY AGENT

Company Name: ATMOS ENERGY, CORPORATION

Address: 5430 LBJ FREEWAY, DALLAS, TX 75240

Phone Number: 888-286-6700

**NAVARRO COUNTY**

By: [Signature]  
County Judge

By: [Signature]  
Commissioner, Precinct 3

**LINE M-M15-M16**  
 NAVARRO COUNTY, TEXAS

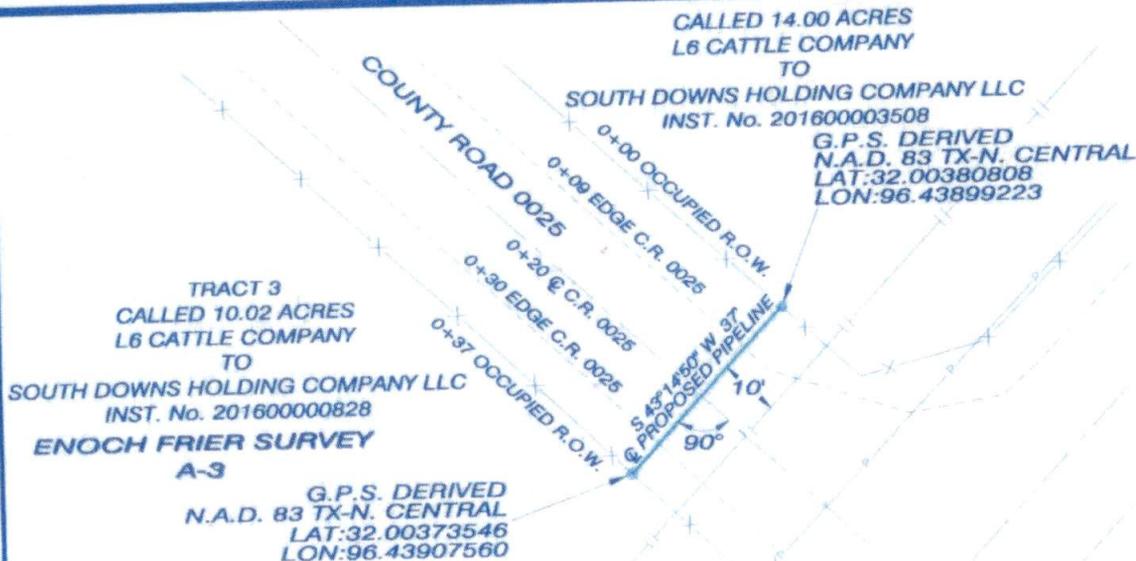
**AMC**  
**SURVEYING**  
 13621 HWY 110 S  
 TYLER, TX. 75707  
 (903) 939-8860  
 FIRM ID 10122800

**LEGEND**

-  FENCE
-  OVER HEAD ELECTRIC
-  EXISTING ATMOS PIPELINE



COORDINATE SYSTEM  
 NAD 1983 FEET TX-N.  
 CENTRAL



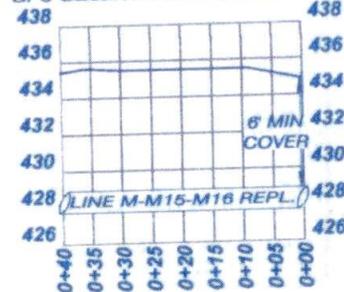
**CARRIER PIPE  
 TO BE INSTALLED**

10.750" O.D.  
 0.365" W.T.  
 API 5LX-52 ARO  
 OPER. PRESS. 800 PSI  
 TEST PRESS. 1,800-1,900 PSI

**NOTES:**

1. ALL STATIONING IS BASED ON HORIZONTAL DISTANCES PROVIDED BY OTHERS.
2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THIS PLAT.
3. INSTALLED PIPE SHALL BE COATED, WRAPPED, AND CATHODICALLY PROTECTED.
4. PIPELINE MARKERS SHALL INDICATE THE NAME, ADDRESS AND EMERGENCY TELEPHONE NUMBER OF THE UTILITY, THE PIPELINE PRODUCT, OPERATING PRESSURE AND DEPTH OF PIPE BELOW GRADE.
5. AFTER EXISTING ATMOS PIPELINE IS TAKEN OUT OF SERVICE, CONTRACTOR SHALL CUT AND CAP EACH END OF THE EXISTING ATMOS PIPELINE FOR ABANDONEMENT, AND FILL ABANDONED LINE WITH CONCRETE GROUT.

HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'  
 ELEVATIONS ARE BASED ON  
 GPS OBSERVATIONS (OPUS COR.)



**JOHN McNEAL SURVEY**  
 A-8

NOTE - NO MANHOLES TO BE  
 INSTALLED WITHIN EXISTING R.O.W.  
 CONTRACTOR TO FOLLOW ALL  
 T.M.U.T.C.D. FOR UTILITY INSTALLATION



REVISIONS					
NO.	DATE	DESCRIPTION			
A	5/4/2021	ISSUED FOR REVIEW			

FILE NO. C.R. 0025 PLAN	SHEET 1 OF 2	PL.PQ. 	SCALE 1" = 30'
DRAWN WMP	CHK'D WMP	APR'VD 	JOB C.R. 0025 PLAN
DATE 5/3/21	DATE 5/4/21	DATE 	

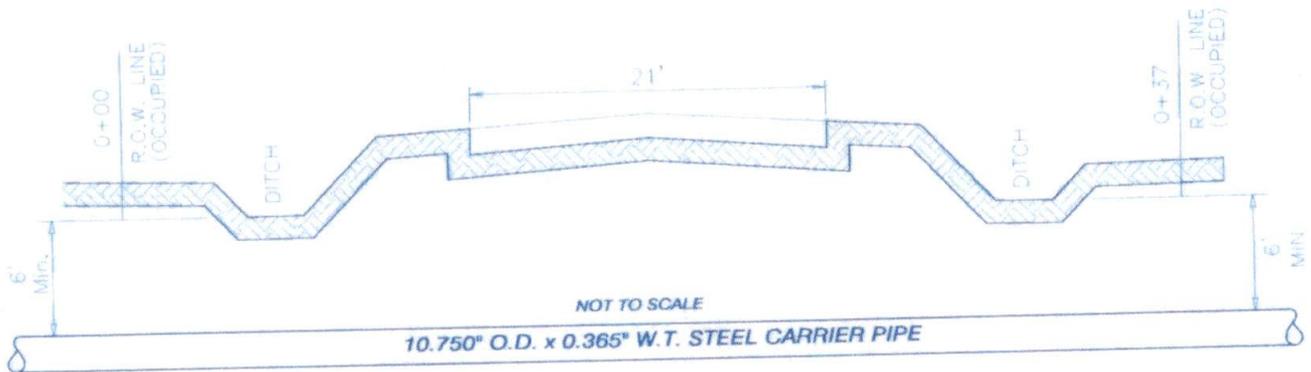
CLIENT <b>ATMOS ENERGY CORPORATION</b>
TITLE <b>PERMIT PLAT PIPELINE CROSSING CO. ROAD 0025 INTERSECTION COUNTY ROAD 0020 NAVARRO COUNTY, TEXAS</b>
PROJECT NO. <b>180.44357</b>
DRAWING NO. <b>C.R. 0025</b>
COST CENTER: <b>9670</b>
REV. <b>A</b>



13621 HWY 110 S  
TYLER, TX. 75707  
(903) 939-8860  
FIRM I.D. 10122800

10" STEEL PIPE  
 $P = 2 \times 52000 \times 0.365 \times 0.50 / 10.750$   
 $P = 1,766$  PSIG ALLOWABLE BY CALCULATION  
 $P = 800$  PSIG ACTUAL DESIGN MAOP  
 PRINCIPAL DESIGN EQUATION  
 (BARLOW'S) FOR STEEL PIPE  
 $P = 2 \times F \times S \times T / D$   
 $P =$  DESIGN PRESSURE, PSIG  
 $F =$  CLASS LOCATION FACTOR  
 $S =$  MIN. YIELD STRENGTH, PSI  
 $D =$  NOMINAL OUTSIDE DIAMETER, IN.  
 $T =$  NOMINAL WALL THICKNESS, OF PIPE (IN.)  
 MAOP = MAXIMUM ALLOWABLE OPERATING PRESSURE (PSIG)

PIPE SPECIFICATIONS				DESIGN DATA					TESTING			COATING SPECIFICATIONS	
MARK	O. D. INCHES	WALL THICK. INCHES	PIPE GRADE	CLASS LOC.	DESIGN FACTOR	P.S.I.G. @ 100% S.M.Y.	EXISTING MAOP PSIG	DESIGN PRESSURE P.S.I.G.	INTERNAL HOOP STRS. % S.M.Y.	TEST PRESSURE P.S.I.G.	TEST DURATION HOURS	X-RAY %	FBE/ARO
C	10.750	0.365	X-52	3	0.50	3,531	800	1,766	33.9%	1,800-1,900	8	100%	



NOTES:

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REVISIONS				CLIENT	
NO.	DATE	DESCRIPTION		ATMOS ENERGY CORPORATION	
A	5/4/2021	ISSUED FOR REVIEW		TITLE	
				LINE M-M15-M16 PIPELINE	
				REPL. CROSSING CO. ROAD 0025	
				INTERSECTION COUNTY ROAD 0020	
				NAVARRO COUNTY, TEXAS	
FILE NO.	C.R. 0025 PROFILE	SHEET 2 OF 2	FB/PG.	SCALE	NONE
DRAWN	WMP	CHK'D	WMP	APR'VD	
DATE	5/4/21	DATE	5/4/21	DATE	
JOB			C.R. 0025 PROFILE		
PROJECT NO.		DRAWING NO.		COST CENTER:	
180.44357		C.R. 0025		9670	
					REV.
					A

**LINE M-M15-M16**  
 NAVARRO COUNTY, TEXAS



COORDINATE SYSTEM  
 NAD 1983 FEET TX-N.  
 CENTRAL

**RMC**  
**SURVEYING**  
 13621 HWY 110 S  
 TYLER, TX. 75707  
 (903) 939-8860  
 FIRM ID 10122800

**LEGEND**

- POWER POLE
- SIGN
- FENCE
- EXISTING ATMOS PIPELINE
- OVER HEAD ELECTRIC

**ENOCH FRIER SURVEY**  
 A-3

TRACT 3  
 CALLED 10.02 ACRES  
 L6 CATTLE COMPANY  
 TO  
 SOUTH DOWNS HOLDING COMPANY LLC  
 INST. No. 201600000828

G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:32.00349749  
 LON:96.43922762

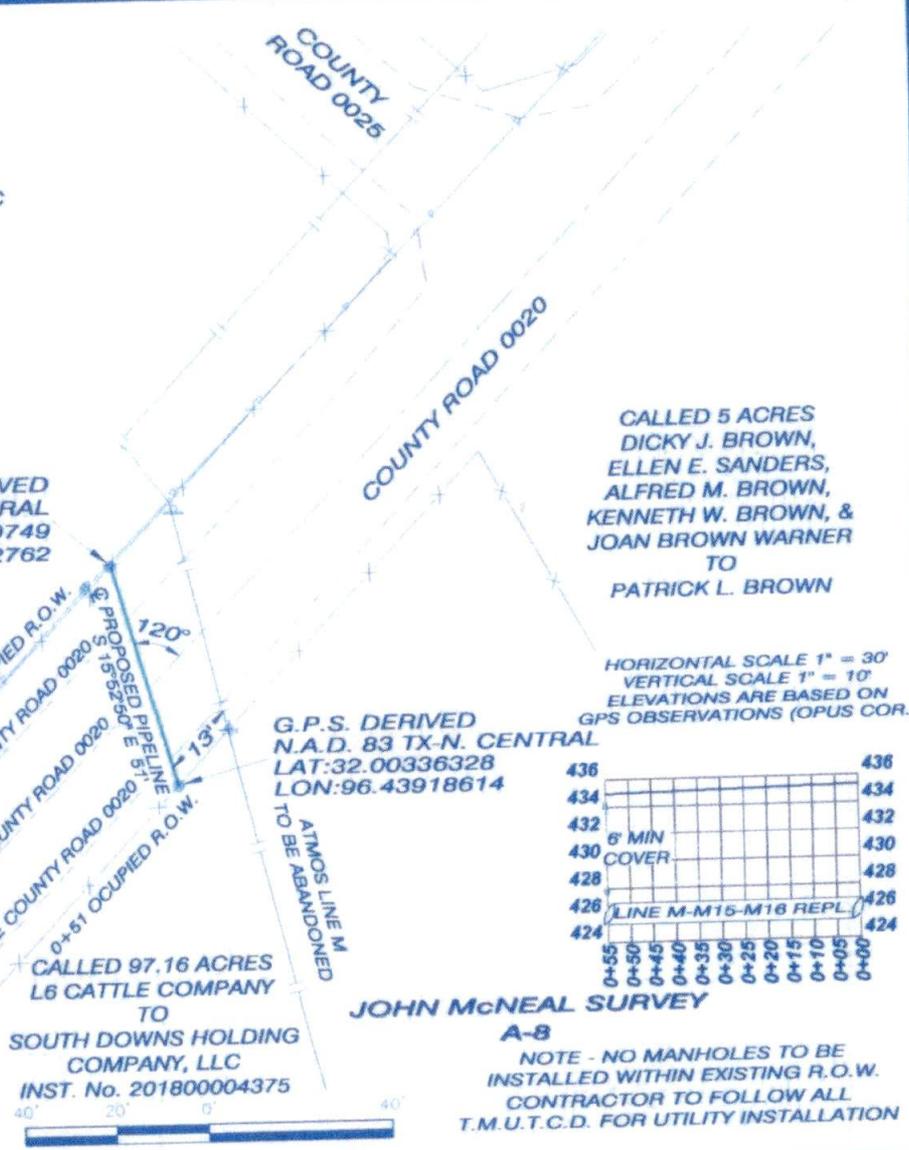
CALLED 5 ACRES  
 DICKY J. BROWN,  
 ELLEN E. SANDERS,  
 ALFRED M. BROWN,  
 KENNETH W. BROWN, &  
 JOAN BROWN WARNER  
 TO  
 PATRICK L. BROWN

**CARRIER PIPE  
 TO BE INSTALLED**

10.750" O.D.  
 0.365" W.T.  
 API X-52 ARO  
 OPER. PRESS. 800 PSI  
 TEST PRESS. 1,800 - 1,900 PSI

**NOTES:**

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2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THIS PLAT.
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G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:32.00336328  
 LON:96.43918614

HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'  
 ELEVATIONS ARE BASED ON  
 GPS OBSERVATIONS (OPUS COR.)

CALLLED 97.16 ACRES  
 L6 CATTLE COMPANY  
 TO  
 SOUTH DOWNS HOLDING  
 COMPANY, LLC  
 INST. No. 201800004375

**JOHN McNEAL SURVEY**  
 A-8

NOTE - NO MANHOLES TO BE  
 INSTALLED WITHIN EXISTING R.O.W.  
 CONTRACTOR TO FOLLOW ALL  
 T.M.U.T.C.D. FOR UTILITY INSTALLATION

**REVISIONS**

NO	DATE	DESCRIPTION
A	5/4/2021	ISSUED FOR REVIEW

**CLIENT**

**ATMOS  
 ENERGY CORPORATION**

**TITLE**

**PERMIT PLAT  
 PIPELINE CROSSING CO. ROAD 0020  
 INTERSECTION COUNTY ROAD 0025  
 NAVARRO COUNTY, TEXAS**

FILE NO. C.R. 0020 PLAN	SHEET 1 OF 2	FB./PG.	SCALE 1"=40'
DRAWN WMP	CHK'D WMP	APRVD	JOB C.R. 0020 PLAN
DATE 5/4/21	DATE 5/4/21	DATE	

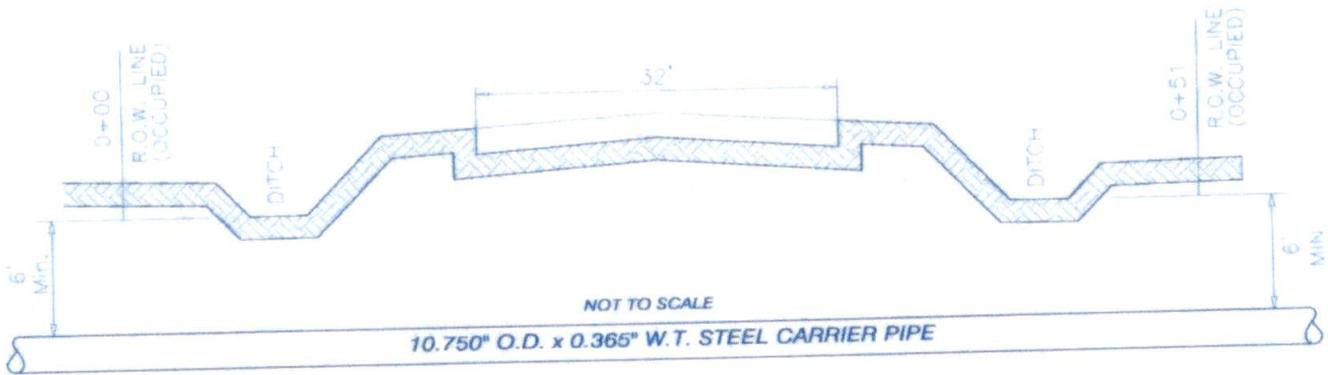
PROJECT NO. <b>180.44357</b>	DRAWING NO. <b>C.R. 0020</b>	COST CENTER: <b>9670</b>	REV. <b>A</b>
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13621 HWY 110 S  
 TYLER, TX. 75707  
 (903) 939-8860  
 FIRM I.D. 10122800

10" STEEL PIPE  
 $P = 2 \times 52000 \times 0.365 \times 0.50 / 10.750$   
 $P = 1,766$  PSIG ALLOWABLE BY CALCULATION  
 $P = 800$  PSIG ACTUAL DESIGN MAOP  
 PRINCIPAL DESIGN EQUATION  
 (BARLOW'S) FOR STEEL PIPE  
 $P = 2 \times F \times S \times T / D$   
 $P =$  DESIGN PRESSURE, PSIG  
 $F =$  CLASS LOCATION FACTOR  
 $S =$  MIN. YIELD STRENGTH, PSI  
 $D =$  NOMINAL OUTSIDE DIAMETER, IN.  
 $T =$  NOMINAL WALL THICKNESS, OF PIPE (IN.)  
 MAOP = MAXIMUM ALLOWABLE OPERATING PRESSURE (PSIG)

PIPE SPECIFICATIONS				DESIGN DATA					TESTING			COATING SPECIFICATIONS	
MARK	O. D. INCHES	WALL THICK. INCHES	PIPE GRADE	CLASS LOC.	DESIGN FACTOR	P.S.I.G. @ 100% S.M.Y.	EXISTING MAOP PSIG	DESIGN PRESSURE P.S.I.G.	INTERNAL HOOP STRES. % S.M.Y.	TEST PRESSURE P.S.I.G.	TEST DURATION HOURS	X-RAY %	
C	10.750	0.365	X-52	3	0.50	3,531	800	1,766	33.9%	1,800-1,900	8	100%	FBE/ARO



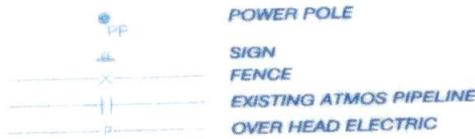
- NOTES:
1. ALL STATIONING IS BASED ON HORIZONTAL DISTANCES PROVIDED BY OTHERS.
  2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THIS PLAN.
  3. INSTALLED PIPE SHALL BE COATED, WRAPPED, AND CATHODICALLY PROTECTED.
  4. PIPELINE MARKERS SHALL INDICATE THE NAME, ADDRESS AND EMERGENCY TELEPHONE NUMBER OF THE UTILITY, THE PIPELINE PRODUCT, OPERATING PRESSURE AND DEPTH OF PIPE BELOW GRADE.
  5. AFTER EXISTING ATMOS PIPELINE IS TAKEN OUT OF SERVICE, CONTRACTOR SHALL CUT AND CAP EACH END OF THE EXISTING ATMOS PIPELINE FOR ABANDONEMENT, AND FILL ABANDONED LINE WITH CONCRETE GROUT.

REVISIONS				CLIENT <b>ATMOS ENERGY CORPORATION</b>			
NO.	DATE	DESCRIPTION		TITLE <b>LINE M-M15-M16 PIPELINE PIPELINE CROSSING CO. ROAD 0020 INTERSECTION COUNTY ROAD 0025 NAVARRO COUNTY, TEXAS</b>			
A	5/4/21	ISSUED FOR REVIEW					
FILE NO. C.R. 0020 PROFILE	SHEET 2 OF 2	FB./PG.	SCALE NONE	PROJECT NO. <b>180.44357</b>	DRAWING NO. <b>C.R. 0020</b>	COST CENTER: <b>9670</b>	REV. <b>A</b>
DRAWN WMP	CHK'D WMP	APR'VD	JOB C.R. 0020 PROFILE				
DATE 5/4/21	DATE 5/4/21	DATE					

**LINE M-M15-M16**  
 NAVARRO COUNTY, TEXAS

**AMC**  
**SURVEYING**  
 13621 HWY 110 S  
 TYLER, TX. 75707  
 (903) 939-8860  
 FIRM ID 10122800

**LEGEND**



COORDINATE SYSTEM  
 NAD 1983 FEET TX-N.  
 CENTRAL

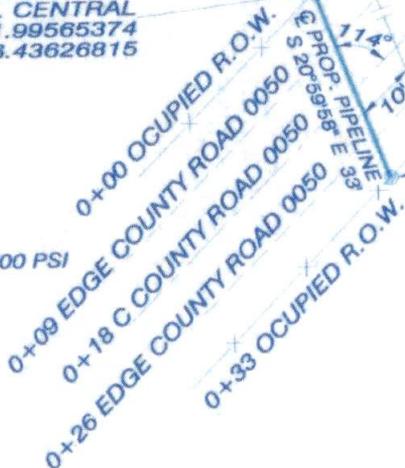
**JOHN McNEAL SURVEY**  
**A-8**

CALLED 97.16 ACRES  
 L6 CATTLE COMPANY  
 TO  
 SOUTH DOWNS HOLDING COMPANY, LLC  
 INST. No. 201800004375

G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:31.99565374  
 LON:96.43626815

**CARRIER PIPE**  
**TO BE INSTALLED**

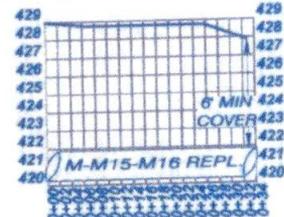
10.750" O.D.  
 0.365" W.T.  
 API X-52 ARO  
 OPER. PRESS. 800 PSI  
 TEST PRESS. 1,800 - 1,900 PSI



CALLED 51.56 ACRES  
 STEVEN SUTHERLIN  
 TO  
 KEN COOK & PAULA COOK  
 INST. No. 201800010082

G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:31.99556810  
 LON:96.43623182

HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'  
 ELEVATIONS ARE BASED ON  
 GPS OBSERVATIONS (OPUS COR.)



**NOTES:**

1. ALL STATIONING IS BASED ON HORIZONTAL DISTANCES PROVIDED BY OTHERS.
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NOTE - NO MANHOLES TO BE INSTALLED WITHIN EXISTING R.O.W. CONTRACTOR TO FOLLOW ALL T.M.U.T.C.D. FOR UTILITY INSTALLATION

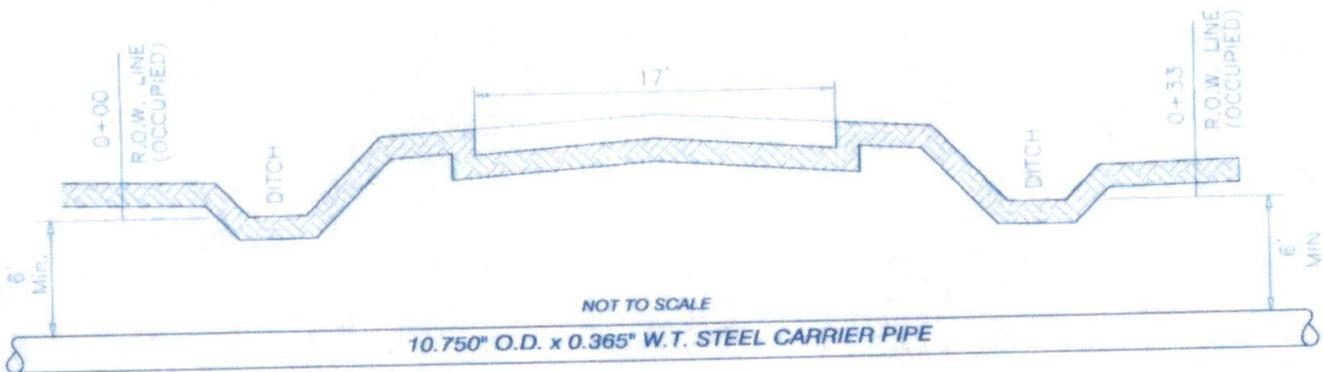
REVISIONS				CLIENT				
NO	DATE	DESCRIPTION		<b>ATMOS ENERGY CORPORATION</b>  <b>PERMIT PLAT</b> <b>PIPELINE CROSSING CO. ROAD 0050</b> <b>415' S.W. OF S.W. CO. ROAD 0050</b> <b>NAVARRO COUNTY, TEXAS</b>				
A	5/4/2021	ISSUED FOR REVIEW						
FILE NO.	C.R. 0050 PLAN	SHEET 1 OF 2	FB./PG.	SCALE 1"=30'	PROJECT NO.	DRAWING NO.	COST CENTER:	REV.
DRAWN	WMP	CHKD WMP	APRYD	JOB C.R. 0050 PLAN	<b>180.44357</b>	<b>C.R. 0050</b>	<b>9670</b>	<b>A</b>
DATE	5/4/21	DATE	5/4/21	DATE				



13621 HWY 110 S  
TYLER, TX. 75707  
(903) 939-8860  
FIRM I.D. 10122800

10" STEEL PIPE  
 $P = 2 \times 52000 \times 0.365 \times 0.50 / 10.750$   
**P = 1,766 PSIG ALLOWABLE BY CALCULATION**  
**P = 800 PSIG ACTUAL DESIGN MAOP**  
**PRINCIPAL DESIGN EQUATION**  
**(BARLOW'S) FOR STEEL PIPE**  
 $P = 2 \times F \times S \times T / D$   
**P = DESIGN PRESSURE, PSIG**  
**F = CLASS LOCATION FACTOR**  
**S = MIN. YIELD STRENGTH, PSI**  
**D = NOMINAL OUTSIDE DIAMETER, IN.**  
**T = NOMINAL WALL THICKNESS, OF PIPE (IN.)**  
**MAOP = MAXIMUM ALLOWABLE OPERATING PRESSURE (PSIG)**

PIPE SPECIFICATIONS				DESIGN DATA						TESTING			COATING SPECIFICATIONS	
MARK	O.D. INCHES	WALL THICK. INCHES	PIPE GRADE	CLASS LOC.	DESIGN FACTOR	P.S.I.G. @ 100% S.M.Y.	EXISTING MAOP PSIG	DESIGN PRESSURE P.S.I.G.	INTERNAL HOOP STRS. % S.M.Y.	TEST PRESSURE P.S.I.G.	TEST DURATION HOURS	X-RAY %	FBE/ARO	
C	10.750	0.365	X-52	3	0.50	3,531	800	1,766	33.9%	1,800-1,900	8	100%		



**NOTES:**

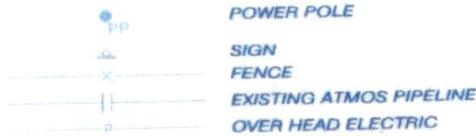
1. ALL STATIONING IS BASED ON HORIZONTAL DISTANCES PROVIDED BY OTHERS.
2. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN ON THIS PLAT.
3. INSTALLED PIPE SHALL BE COATED, WRAPPED, AND CATHODICALLY PROTECTED.
4. PIPELINE MARKERS SHALL INDICATE THE NAME, ADDRESS AND EMERGENCY TELEPHONE NUMBER OF THE UTILITY, THE PIPELINE PRODUCT, OPERATING PRESSURE AND DEPTH OF PIPE BELOW GRADE.
5. AFTER EXISTING ATMOS PIPELINE IS TAKEN OUT OF SERVICE, CONTRACTOR SHALL CUT AND CAP EACH END OF THE EXISTING ATMOS PIPELINE FOR ABANDONEMENT, AND FILL ABANDONED LINE WITH CONCRETE GROUT.

REVISIONS				CLIENT			
NO.	DATE	DESCRIPTION		ATMOS ENERGY CORPORATION			
A.	5/4/21	ISSUED FOR REVIEW					
				TITLE			
				LINE M-M15-M16 PIPELINE			
				PIPELINE CROSSING CO. ROAD 0050			
				415' S.W. OF S.W. CO. ROAD 0050			
				NAVARRO COUNTY, TEXAS			
FILE NO.	SHEET	FB./PG.	SCALE	PROJECT NO.	DRAWING NO.	COST CENTER:	REV.
C.R. 0050 PROFILE	2 OF 2		NONE	180.44357	C.R. 0050	9670	A
DRAWN	CHK'D	APR'D	JOB				
WMP	WMP		C.R. 0050 PROFILE				
DATE	DATE	DATE					
5/4/21	5/4/21						

**LINE M-M15-M16**  
 NAVARRO COUNTY, TEXAS



**LEGEND**



COORDINATE SYSTEM  
 NAD 1983 FEET TX-N.  
 CENTRAL

**JOHN McNEAL SURVEY**  
 A-8

CALLED 272.74 ACRES  
 CORNELIS DE WOLFF  
 TO  
 KEN COOK & PAULA COOK  
 INST. No. 201300008317

G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:31.98220979  
 LON:96.43560541

**CARRIER PIPE  
 TO BE INSTALLED**

10.750" O.D.  
 0.365" W.T.  
 API X-52 ARO  
 OPER. PRESS. 800 PSI  
 TEST PRESS. 1,800 - 1,900 PSI

ATMOS LINE M  
 TO BE ABANDONED

0+00 OCCUPIED R.O.W.  
 0+13 EDGE COUNTY ROAD 0080  
 0+21 COUNTY ROAD 0080  
 COUNTY ROAD 0080  
 0+29 EDGE COUNTY ROAD 0080  
 0+54 OCCUPIED R.O.W.

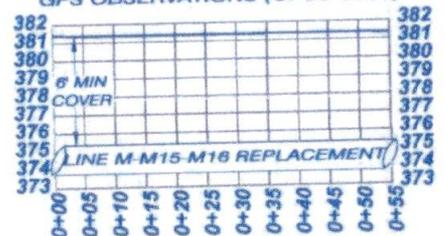
S 02°11'46" E 64'  
 & PROPOSED PIPELINE

50°

CALLED 59.7 ACRES  
 VINETA WYVONNE IVE  
 TO  
 KEN COOK & PAULA COOK  
 INST. No. 201500001753

G.P.S. DERIVED  
 N.A.D. 83 TX-N. CENTRAL  
 LAT:31.98206141  
 LON:96.43560216

HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'  
 ELEVATIONS ARE BASED ON  
 GPS OBSERVATIONS (OPUS COR.)



**NOTES:**

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4. PIPELINE MARKERS SHALL INDICATE THE NAME, ADDRESS AND EMERGENCY TELEPHONE NUMBER OF THE UTILITY, THE PIPELINE PRODUCT, OPERATING PRESSURE AND DEPTH OF PIPE BELOW GRADE.
5. AFTER EXISTING ATMOS PIPELINE IS TAKEN OUT OF SERVICE, CONTRACTOR SHALL CUT AND CAP EACH END OF THE EXISTING ATMOS PIPELINE FOR ABANDONEMENT, AND FILL ABANDONED LINE WITH CONCRETE GROUT.

CALLED 620.17 ACRES  
 ESTATE OF LELAND P. COOK  
 TO  
 NINA SUE COOK  
 COOK FAMILY LIVING TRUST  
 INST. No. 201100002382



NOTE - NO MANHOLES TO BE  
 INSTALLED WITHIN EXISTING R.O.W.  
 CONTRACTOR TO FOLLOW ALL  
 T.M.U.T.C.D. FOR UTILITY INSTALLATION

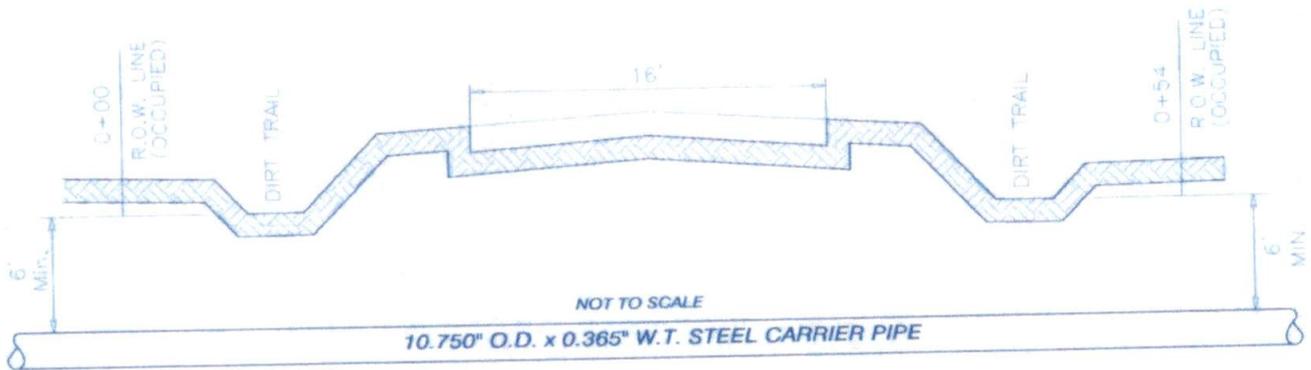
REVISIONS				CLIENT	
NO.	DATE	DESCRIPTION		ATMOS ENERGY CORPORATION	
A	5/4/2021	ISSUED FOR REVIEW			
TITLE				PERMIT PLAT PIPELINE CROSSING CO. ROAD 0080 0.5 MILES S.W. OF CO. ROAD 0060 NAVARRO COUNTY, TEXAS	
FILE NO.					
C.R. 0080 PLAN		SHEET 1 OF 2	FB./PG.	SCALE 1"=30'	PROJECT NO.
DRAWN WMP	CHK'D WMP	APR'VD	JOB	C.R. 0080	DRAWING NO.
DATE 5/4/21	DATE 5/4/21	DATE	PLAN		COST CENTER:
				180.44357	9670
				C.R. 0080	REV. A



13621 HWY 110 S  
 TYLER, TX. 75707  
 (903) 939-8860  
 FIRM I.D. 10122800

10" STEEL PIPE  
 $P = 2 \times 52000 \times 0.365 \times 0.50 / 10.750$   
 $P = 1,766$  PSIG ALLOWABLE BY CALCULATION  
 $P = 800$  PSIG ACTUAL DESIGN MAOP  
 PRINCIPAL DESIGN EQUATION  
 (BARLOW'S) FOR STEEL PIPE  
 $P = 2 \times F \times S \times T / D$   
 $P =$  DESIGN PRESSURE, PSIG  
 $F =$  CLASS LOCATION FACTOR  
 $S =$  MIN. YIELD STRENGTH, PSI  
 $D =$  NOMINAL OUTSIDE DIAMETER, IN.  
 $T =$  NOMINAL WALL THICKNESS, OF PIPE (IN.)  
 MAOP = MAXIMUM ALLOWABLE OPERATING PRESSURE (PSIG)

PIPE SPECIFICATIONS				DESIGN DATA					TESTING			COATING SPECIFICATIONS	
MARK	O. D. INCHES	WALL THICK INCHES	PIPE GRADE	CLASS LOC.	DESIGN FACTOR	P.S.I.G. @ 100% S.M.Y.	COATING MAOP PSIG	DESIGN PRESSURE P.S.I.G.	INTERNAL HOOP STRE. % S.M.Y.	TEST PRESSURE P.S.I.G.	TEST DURATION HOURS	X-RAY %	
C	10.750	0.365	X-52	3	0.50	3,531	800	1,766	33.9%	1,800-1,900	8	100%	FBE/ARO



- NOTES:
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REVISIONS				CLIENT			
NO.	DATE	DESCRIPTION					
A	5/4/21	ISSUED FOR REVIEW		ATMOS ENERGY CORPORATION			
				TITLE			
				LINE M-M15-M16 PIPELINE			
				PIPELINE CROSSING CO. ROAD 0080			
				0.5 MILES S.W. OF CO. ROAD 0060			
				NAVARRO COUNTY, TEXAS			
FILE NO.	SHEET	FB./PG.	SCALE	PROJECT NO.	DRAWING NO.	COST CENTER:	REV.
C.R. 0080 PROFILE	2 OF 2		NONE	180.44357	C.R. 0080	9670	A
DRAWN WMP	CHK'D WMP	APRVD	JOB				
DATE 5/4/21	DATE 5/4/21	DATE	C.R. 0080 PROFILE				