



Permit to Construct Access Driveway Facilities On Atascosa County Road Right of Way

Permit Number: _____		
Applicant/Permitee	GPS*	Roadway
Name: Trailblazer Energy Resources LLC	Latitude, Longitude N 28°55'08.04" , W 98°17'30.94" Driveway 1 (Temporary)	Name: CR 419
Mailing Address: 2431 East 61st St, Suite 700		
City, State, Zip: Tulsa, OK 74136		For County's Use
Phone number: 918-728-3020		Pct. No.: _____
*Global positioning system coordinates intersection of driveway centerline with abutting roadway.		

Atascosa County, hereinafter called the County, hereby authorizes Trailblazer Energy Resources LLC hereinafter called the Permittee, to X construct/_____reconstruct a temporary oilfield (residential, commercial, farm, etc.) access driveway on the County Road right of way abutting County Road 419 in Atascosa County, located 1.1 mile north of FM 541 (Property ID 219875) _____ (use additional sheet as needed).

Subject to Access Driveway Policy and the following:

1. The undersigned hereby agrees to comply with the terms and conditions set forth in this permit for construction and maintenance of an access driveway on the county road right of way.
2. Design of facilities shall be as follows and/or as shown on sketch on page 15 and is subject to conditions stated below:
Temporary 40-ft wide compacted base driveway for well site access, constructed per C3.0 (attached)
- _____ All construction of materials shall be subject to inspection and approval by the County.
3. Maintenance of facilities constructed hereunder shall be the responsibility of the Permittee, and the County reserves the right to require any changes, maintenance or repairs as may be necessary to provide protection of life or property on or adjacent to the highway. Changes in design will be made only with the approval of the County.
4. The Permittee shall hold harmless the County and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of the exercise of this permit.
5. Except for regulatory and guide signs at county roads and city streets, the Permittee shall not erect

any sign on or extending over any portion of the highway right of way, and vehicle service fixtures such as fuel pumps, vendor stands, or tanks and shall be located at least 12 feet from the right of way line to ensure that any vehicle services from these fixtures will be off the county road right of way.

6. The County reserves the right to require a new access driveway permit in the event of a material change in land use or change in driveway traffic volume or vehicle types.

7. This permit will become null and void if the above-referenced driveway facilities are not constructed within six (6) months from the issuance date of this permit.

8. The Permittee will contact the County's representative Britni Van Curan telephone (830) 769-2748 at least twenty-four (24) hours prior to beginning the work authorized by this permit.

9. The requesting Permittee will be provided instructions on the appeal process if this permit request is denied by the County.

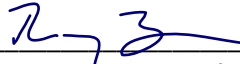
Date of Issuance

County Authorized Representative

The undersigned hereby agrees to comply with the terms and conditions set forth in this permit for construction and

maintenance of an access driveway on the highway right of way.

Date: 7/9/2024

Signed: 

(Property owner or owner's representative)
Engineer

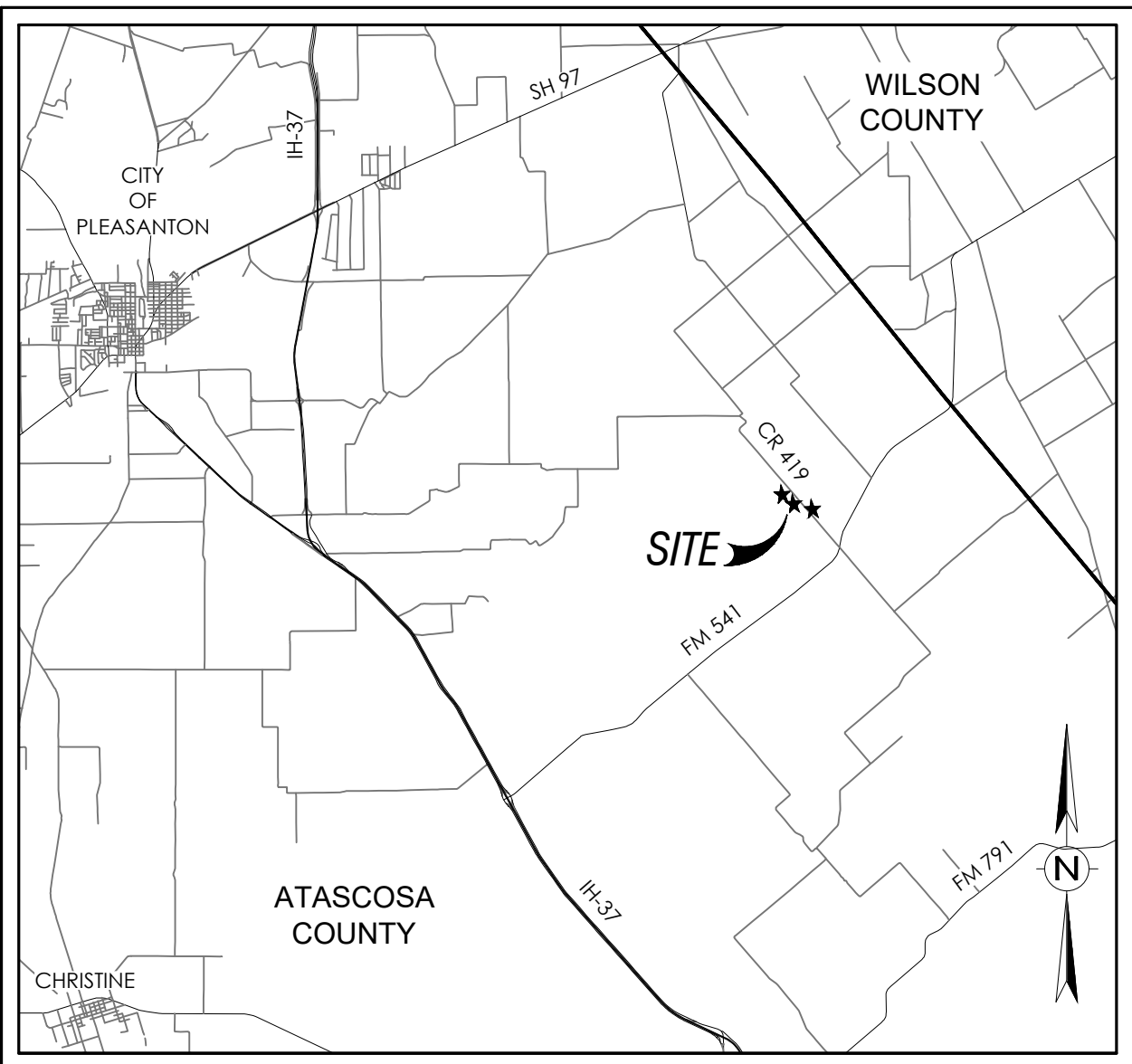
TRAILBLAZER ENERGY

COUNTY ROAD 419
ATASCOSA COUNTY, TX

COMMERCIAL DRIVEWAY PERMIT CONSTRUCTION PLANS

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LOCATION MAP N.T.S.

OWNER
TRAILBLAZER ENERGY RESOURCES LLC
2431 EAST 61ST STREET, SUITE 700
TULSA, OK 74136

JULY 2026



Ray Baca 7/9/26

RL BACA
ENGINEERING
TBPCLS FIRM NO. F-23628 | P.O. BOX 587 | PLEASANTON, TEXAS 78064
830.570.2628 | RAY@RLBACA.COM

RL BACA PROJECT NO.: 26-129
DRIVEWAY PERMIT PROPERTY INFORMATION
PROPERTY ID: 219875, 11758
ACREAGE: 711.94 AC, 50.50 AC
LEGAL DESCRIPTION: ABS A00428 1&GN RR CO SV-1701
DRIVEWAY DESCRIPTION: CONSTRUCT 40-FT WIDE DRIVEWAY WITH 12" COMPACTED BASE FOR COMMERCIAL (OILFIELD) ENTRANCE.

GENERAL NOTES

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ATASCOSA COUNTY COMMERCIAL DRIVEWAY STANDARDS.
2. CONSTRUCTION OF ALL FACILITIES TO BE DEDICATED TO THE PUBLIC SHALL BE PERFORMED PER THE REQUIREMENTS OF THE ATASCOSA COUNTY.
3. CONTRACTOR SHALL MAINTAIN A COPY OF ALL NECESSARY PERMITS ON THE JOBSITE.
4. WHERE NECESSARY, CONTRACTOR SHALL PROVIDE FOR BARRICADES AND TRAFFIC CONTROL DEVICES AS PER THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
5. AS APPLICABLE, TREES ON SITE ARE TO REMAIN IN UNDAMAGED CONDITION UNLESS REMOVAL OR TRIMMING IS IDENTIFIED ON THE PLANS OR IS NECESSARY FOR CONSTRUCTION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF OWNER IF UNIDENTIFIED REMOVAL OR TRIMMING BECOMES NECESSARY. RESPONSE TO SUCH NOTIFICATION IS REQUIRED BEFORE TREE REMOVAL OR TRIMMING MAY PROCEED.
6. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING STATEMENT SHALL APPLY TO TOPSOIL SALVAGE, PLACEMENT AND SUPPLY: TOPSOIL SHALL BE STRIPPED AND STOCKPILED SEPARATELY FROM ALL OTHER MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. STOCKPILED TOPSOIL MATERIAL SHALL BE SPREAD AND COMPACTED TO A DEPTH OF 6" TO ESTABLISH FINISHED GRADE IN ALL AREAS THAT ARE NOT TO BE PAVED. SHOULD STOCKPILED TOPSOIL FAIL TO COVER ALL AREAS TO A COMPACTED DEPTH OF 6", CONTRACTOR SHALL SUPPLY ADDITIONAL TOPSOIL FROM APPROVED OFF SITE SOURCES TO ESTABLISH FINISHED GRADE WITHOUT ADDITIONAL COMPENSATION.
7. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ROCK AND ALL OTHER MATERIALS ENCOUNTERED REGARDLESS OF THEIR NATURE OR THE MANNER IN WHICH THEY ARE REMOVED.
8. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL DISTURBED AREAS TO PREVENT PONDING OR BLOCKAGE OF SURFACE DRAINAGE.
9. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT DAMAGE TO ADJACENT PROPERTIES AND TO CONFORM WITH LOCAL JURISDICTIONAL AUTHORITY REQUIREMENTS.
10. WHERE FINISHED CONTOURS ARE SHOWN TO MATCH EXISTING CONTOURS ON THE GRADING PLANS, NO GRADE SEPARATION IS ALLOWABLE. CONTRACTOR SHALL ADJUST FINISHED CONTOURS AS NECESSARY TO ACCOMPLISH THIS REQUIREMENT.
11. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITY OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
12. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON COMPLETION.

PAVEMENT NOTES

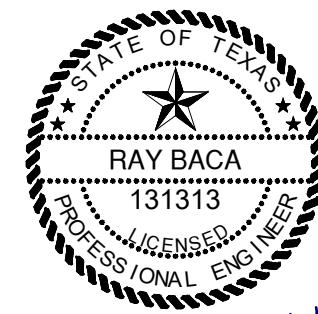
1. ALL WORK WITHIN STATE, COUNTY, AND/OR CITY RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE WITH EACH ENTITIES GOVERNING RULES AND STANDARDS. CONTRACTOR SHALL MAINTAIN A COPY OF ALL NECESSARY PERMITS ON THE JOBSITE WHEN WORKING IN PUBLIC RIGHT-OF-WAYS.
2. UTILITY TRENCHING AND BACKFILL WITHIN ROADWAYS AND PARKING AREAS SHALL BE PERFORMED PRIOR TO PLACEMENT OF FLEXIBLE BASE MATERIAL. FAILURE TO COMPLY WILL REQUIRE ALL TRENCH BACKFILL TO BE FLOWABLE FILL OR OTHER APPROVED METHOD AS PER THE ENGINEER.
3. PAVEMENT SUBGRADES: PAVEMENT AREAS SHALL BE STRIPPED OF VEGETATION, LOOSE TOPSOIL, AND PAVEMENT MATERIALS IN THE PROJECT AREA. SUBGRADE PREPARATION SHALL EXTEND AT LEAST TWO (2) FEET BEYOND THE LIMITS OF THE PAVEMENTS AND ALL ADJACENT SIDEWALKS, CANOPIES AND OTHER IMPROVEMENTS. AFTER SITE STRIPPING AND EXCAVATING TO THE RECOMMENDED DEPTHS, THE EXPOSED SOIL SUBGRADE IN THE PAVEMENT AREAS SHALL BE PROOF ROLLED WITH APPROPRIATE CONSTRUCTION EQUIPMENT WEIGHING AT LEAST 15 TONS TO CHECK THE SUBGRADE FOR WEAK OR SOFT AREAS PRIOR TO FILL/BASE PLACEMENT AND COMPACTION. THIS OPERATION SHALL BE OBSERVED AND EVALUATED BY QUALIFIED GEOTECHNICAL PERSONNEL EXPERIENCED IN EARTHWORK OPERATIONS. WEAK / SOFT SPOTS SHALL BE EXCAVATED AND REPLACED WITH STABLE COMPACTABLE SELECT FILL MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

AFTER PROOFROLLING AND REPLACING ANY WEAK YIELDING ZONES, SCARIFY THE EXPOSED SUBGRADE TO DEPTH OF SIX INCHES (6"). THE SUBGRADE MATERIAL SHOULD BE MOISTURE CONDITIONED TO AT OR ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

GENERAL FILL MATERIALS COULD CONSIST OF ON-SITE SOILS FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS OR IMPORTED SOILS WITH A MAXIMUM PLASTICITY INDEX (PI) OF 30. THE FILL USED TO RAISE THE GRADE WHERE REQUIRED IN THE PROPOSED PARKING AND DRIVE AREAS SHOULD BE PLACED IN NO GREATER THAN EIGHT INCH (8") LOOSE LIFTS. EACH LIFT SHOULD BE MOISTURE CONDITIONS TO AT OR ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698.

ROCK SUBGRADES WILL NOT REQUIRE PROOF ROLLING OR TESTING.

4. PAVEMENT FLEXIBLE BASE COURSE: FLEXIBLE BASE MATERIAL SHALL BE COMPOSED OF CRUSHED LIMESTONE BASE MEETING ALL THE REQUIREMENTS OF 2014 TXDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADE 1 OR 2 INCLUDING TRIAXIAL STRENGTH AND SHOULD HAVE NO MORE THAN 15 PERCENT OF THE MATERIAL PASSING THE No.200 SIEVE. THE BASE SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED MOISTURE-DENSITY RELATIONSHIP (ASTM D 1557) AT MOISTURE CONTENTS RANGING BETWEEN MINUS TWO (-2) AND PLUS TWO (+2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
5. HOT MIX ASPHALT FINE GRADE BASE COURSE FOR STREETS, ROADWAYS, AND PARKING AREAS: THE ASPHALTIC CONCRETE BASE COURSE SHALL BE PLANT MIXED, HOT LAID TYPE "B"(FINE GRADE BASE COURSE) MEETING THE SPECIFICATION REQUIREMENTS OF 2014 TXDOT STANDARD SPECIFICATIONS ITEM 340 OR 341. THE MIX SHALL BE COMPACTED BETWEEN 92 AND 97 PERCENT OF THE MAXIMUM THEORETICAL DENSITY AS MEASURED BY TEX-227-F. THE ASPHALT CEMENT CONTENT BY PERCENT OF TOTAL MIXTURE WEIGHT SHOULD FALL WITHIN A TOLERANCE OF ± 0.3 PERCENT ASPHALT CEMENT FROM THE JOB-MIX FORMULA (JMF). THE GRADE OF THE ASPHALT CEMENT SHOULD BE PG 64-22 OR HIGHER. IN ADDITION, THE MIX SHOULD BE DESIGNED SO 77 TO 87 PERCENT OF THE VOIDS IN THE MINERAL AGGREGATE (VMA) ARE FILLED WITH ASPHALT CEMENT. THE MIX SHALL HAVE AT LEAST 70 PERCENT STRENGTH RETENTION WHEN TESTED IN ACCORDANCE WITH TEX-531-C.
6. THE PORTLAND CEMENT CONCRETE SHALL BE AIR ENTRAINED, SHOULD HAVE A MAXIMUM SLUMP OF SIX INCHES (6"). CONSOLIDATED WITH MECHANICAL VIBRATORS, AND SHALL HAVE A MINIMUM TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 3,000 PSI. A LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL BE APPLIED AS SOON AS PRACTICAL AFTER BROOM FINISHING THE CONCRETE SURFACE.
7. EXPANSION JOINTS SHOULD BE PLACED NO GREATER THAN 60- FEET AND SHOULD BE SEALED WITH AN APPROPRIATE SEALANT SO THAT MOISTURE INFILTRATION INTO THE SUBGRADE SOILS AND SEALANT CONCRETE DETERIORATION AT THE JOINTS IS MINIMIZED. CONTROL JOINT SPACING SHOULD NOT EXCEED 15- FEET AND PREPARED TO ADEQUATELY CONTROL CRACKING. THE JOINTS SHOULD BE THOROUGHLY CLEANED, AND SEALANT SHOULD BE INSTALLED WITHOUT OVERFILLING BEFORE THE PAVEMENT IS OPENED TO TRAFFIC.
8. REINFORCING STEEL SHALL BE GRADE 60.
9. CONTRACTOR SHALL SAWCUT A STRAIGHT, NEAT EDGE AT ALL TIE-INS TO EXISTING PAVEMENTS.
10. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION.



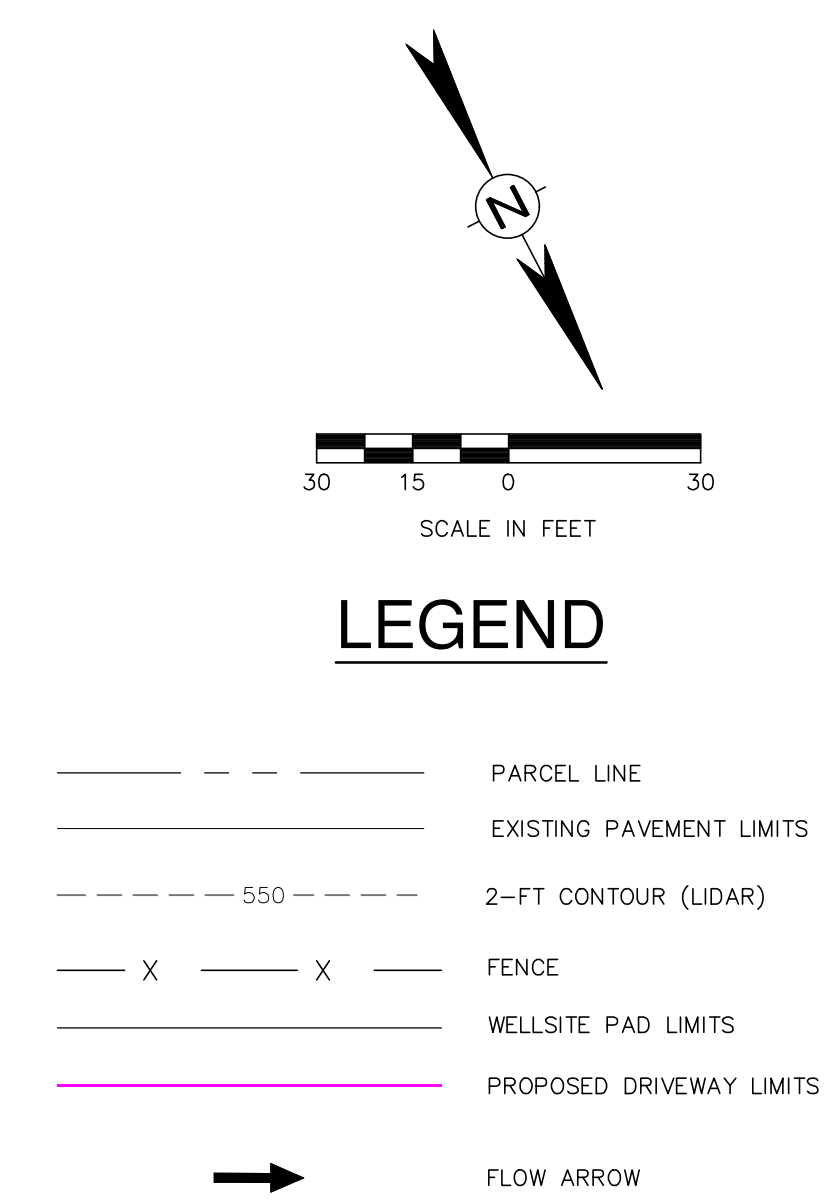
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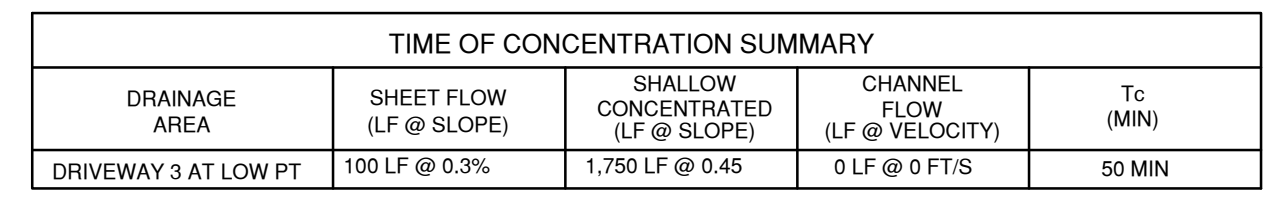
TRAILBLAZER ENERGY RESOURCES LLC
COMMERCIAL DRIVEWAY PERMIT CONSTRUCTION PLANS
COUNTY ROAD 419, ATASCOSA COUNTY, TEXAS
DRIVEWAY GENERAL NOTES

JOB NO.	26-129
DATE	JULY 2026
DESIGNER	RB
CHECKED	RL BACA
DRAWN	RB

C1.0



- UNDERGROUND UTILITIES**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION & ELEVATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM UTILITY COMPANY RECORDS AND WHERE POSSIBLE, FIELD MEASUREMENTS. THE PROVIDED INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST EXACT FIELD LOCATIONS OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY RELOCATION OR DAMAGE TO UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT.



NOTES:

- 1) TIME OF CONCENTRATION (Tc) CALCULATED USING HYDRAFLOW HYDROGRAPHS TR-55 METHOD.
- 2) RAINFALL INTENSITIES DERIVED FROM NOAA ATLAS 14 PRECIPITATION DATA FOR ATASCOSA COUNTY.
- 3) RUNOFF COEFFICIENTS TAKEN FROM TXDOT HYDRAULIC DESIGN MANUAL TABLE 4-10.

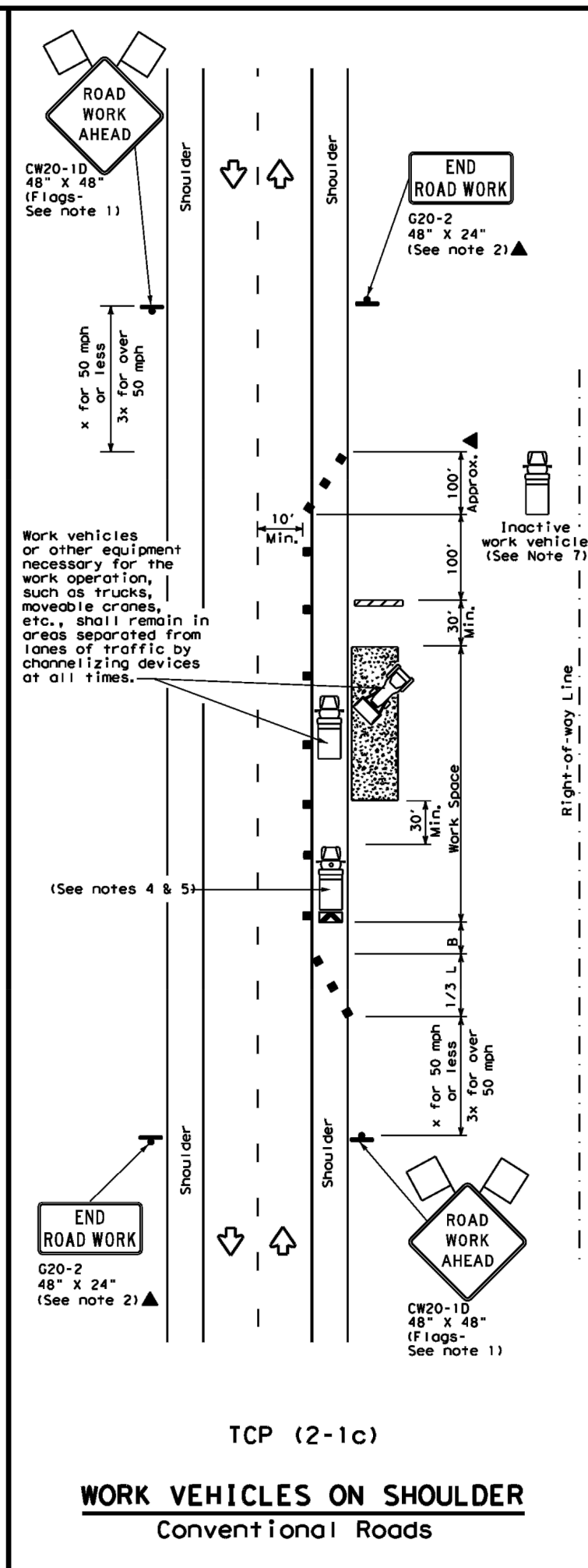
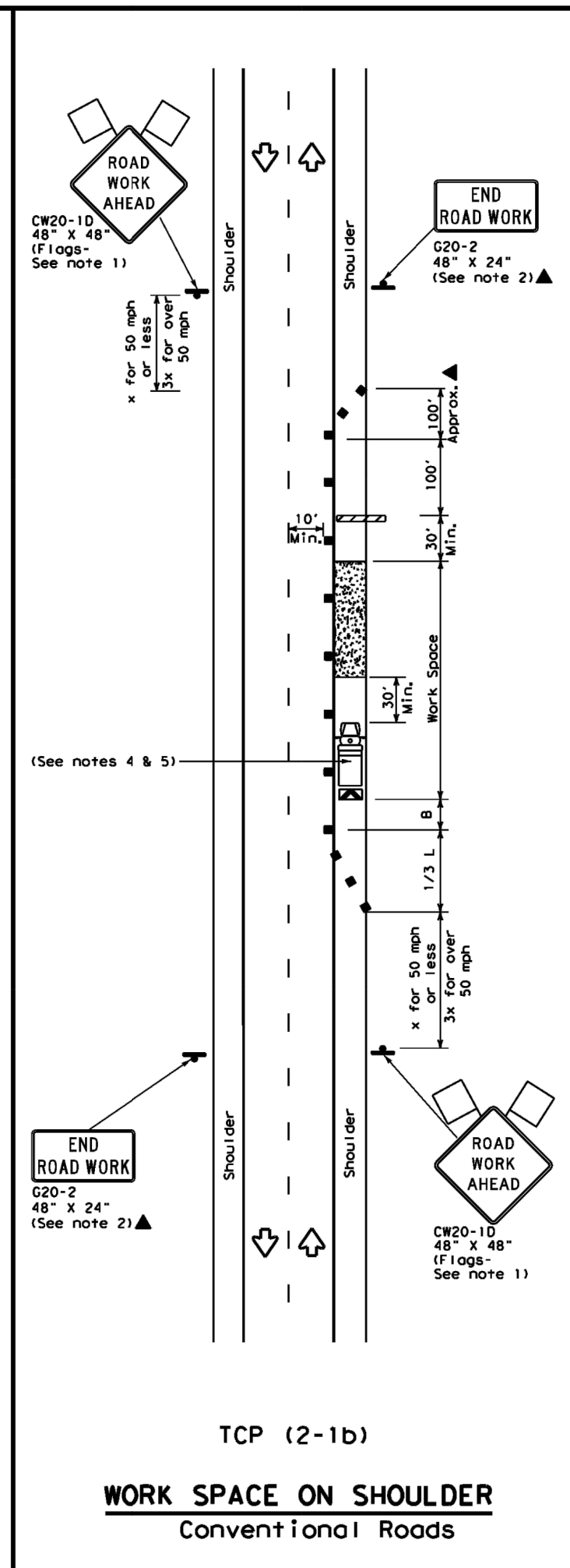
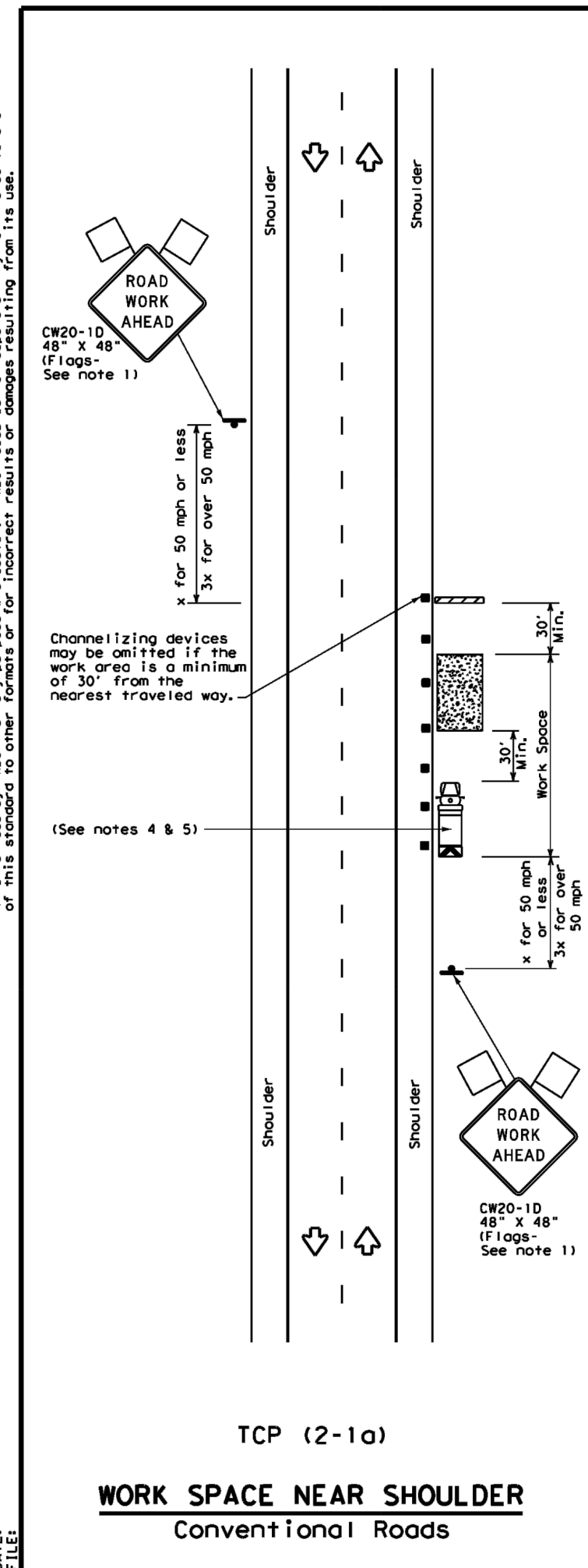
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TRAILBLAZER ENERGY RESOURCES LLC
COMMERCIAL DRIVEWAY PERMIT CONSTRUCTION PLANS
COUNTY ROAD 419, ATASCOSA COUNTY, TEXAS
DETAILED DRIVEWAY PLAN

JOB NO.	26-129
DATE	JULY 2026
DESIGNER	RB
CHECKED	RL BACA
DRAWN	RB

C3.0

DATE: _____
FILE: _____



LEGEND											
Type 1 Barricade				Channelizing Devices							
Heavy Truck Vehicle				Truck Mounted Attenuator (TMA)							
Trailer Mounted Flashing Arrow Board				Portable Changeable Message Sign (PCMS)							
Sign				Traffic Flow							
Flag				Flagger							

Posted Speed #	Formula #	Minimum Desirable Taper Length #	Offset of Offset #	Suggested Maximum Spacing of Channelizing Devices Feet on a Taper	On a Tangent	Minimum Sign Spacing Feet #	Suggested Longitudinal Buffer Space Feet #
30	150'	165'	10'	60'	60'	240'	300'
35	180'	225'	245'	35'	70'	180'	120'
40	265'	295'	320'	40'	80'	240'	155'
45	450'	495'	540'	45'	90'	320'	195'
50	550'	550'	580'	50'	100'	400'	240'
55	550'	605'	660'	55'	110'	500'	295'
60	600'	660'	720'	60'	120'	600'	350'
65	650'	715'	780'	65'	130'	700'	410'
70	700'	770'	840'	70'	140'	800'	475'
75	750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 * Truck lengths have been rounded off.
 * Length of Taper (T) = Minimum of Offset (F) + Posted Speed (MPH)

TYPICAL USAGE			
MOBILE	SHORT TERM OBTURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY
			LONG TERM STATIONARY

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol, which may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Shoulder material (soil) should be placed at least 10 to 20 feet from nearest traveled way.
- Shoulder Vehicle with TM and high intensity rotating, flashing, oscillating or strobe lights. Shoulder vehicle with a TM should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew operations without adversely affecting the performance or quality of the work. If workers are not more present but work conditions warrant, the vehicle should be positioned in place. Type 1 Barricades or other channelizing devices may be substituted for the Shoulder Vehicle and TM.
- Additional Shoulder Vehicle with TM may be positioned off the paved surface, next to those shown in order to protect a wider work zone. Use (TSP-11) for shoulder work on highways, expressways and freeways.
- Inactive work vehicles or other equipment should be parked near the work area and not parked on the paved shoulder.
- W21-S "SHOULDER WORK" signs may be used in place of W20-10 "ROAD NARROW AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN

CONVENTIONAL ROAD

SHOULDER WORK

TCP (2-11)-18

DATE	DESCRIPTION	BY	CHK	APP	IN	OUT
REVISIONS						
9-29-81	REVISED					
1-27-82	REVISED					
1-27-82	REVISED					
1-27-82	REVISED					
1-27-82	REVISED					

THIS DOCUMENT HAS BEEN PRODUCED FROM ELECTRONICALLY TRANSMITTED OR STORED MATERIAL WHICH MAY HAVE BEEN ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE ENGINEER'S ORIGINAL SIGNATURE AND SEAL.

TRAILBLAZER ENERGY RESOURCES LLC
COMMERCIAL DRIVEWAY PERMIT CONSTRUCTION PLANS
COUNTY ROAD 419, ATASCOSA COUNTY, TEXAS
TRAFFIC CONTROL PLAN

RLBACA
ENGINEERING
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830.570.3428 | RAY@RLBACA.COM



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JOB NO.	26-129
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DRAWN	RB

C4.0

PERMIT SET: 7-9-26