





Emergency Services Department

www.harnett.org



Fire Marshal Division

P.O. Box 370 Lillington, NC 27546 910-893-7580

Application for Blasting/Explosives Permit

Application #	Date of Application: 13,202
Applicant: CAROLINA DRILLING	, IK
Billing Address: 326 RATLRUAN S	7.
City_MOCKSVILLE	State <u>NC</u> Zip <u>27038</u>
Contact DEREK WARK	Contact Phone # 336-399-3004
Applicant Email: derok wark 678 Location of Blast/Storage Site NEAR CHE	gmail.com 35.474289, -78,796798 DWORTH DR. ANGIER (SEE DIAGRAM)
City ANGIER S	
Start Date 1 125124 Completion I	Date 4 1 25 1 24
This application must be completed and reissuance of the permit. Please allow (7-10) permit may be issued: 72 hour permit for (\$1 Fees must be paid prior to issuance of any permit for the permit for th	.00.00) and a 90 day permit for (\$250.00)
be submitted with this application: 1 Certificate of Insurance or have a cur. 2 List of materials to be used on site. If provide a site plan indicating the loca inhabited buildings, public roadways	rent certificate on file in our office. storage of materials is proposed on site, tion of storage magazines and distances to
Applicant Signature	1 123 1 24 Date

Carolina Drilling, Inc. 326 Railroad St. Mocksville, NC 27028

January 23, 2024

Customer: Gaines

Project: Atherstone development Drilling and blasting for sewer line

SAFETY PROCEDURES FOR BLASTS

All operations for transporting, handling, and loading explosives shall observe applicable industry standards *and* regulations as defined by the appropriate city, county, state, or federal governing agency. All blast events will be conducted in such a manner that complies with all safety cautions, procedures, or regulations of the applicable city, county, state, or federal governing agency. This includes, but is not limited to: clearing the blast zone, guarding the blast area, and vehicular or pedestrian traffic control. No explosives will be stored on site.

TEST BLASTS

Initial blasts shall be evaluated as test blasts, with analysis of monitored blast effects to be used for revision of blast design (if necessary) for subsequent blasting. Monitoring data will be evaluated on a continuing basis throughout the blasting phase, so that blast design alterations can be implemented if such need is indicated.

BLAST SITE DIMENSIONS

Blasts will consist of approximately 24-200 holes. The depth of rock is somewhat variable (4-12ft). Approximately 450 cubic yards of material is expected to be blasted on this project.

DRILL PATTERN

The proposed pattern is to drill 3.5" diameter boreholes with a 5feet by 5 feet staggered pattern.

BLASTS REQUIRED

Several blasts over a few days period will be required for this project.

EXPLOSIVES LOADING & INITIATION

The type of explosives to be used will be Riohit 250MS 2.5" x 7, Riodin HE 2 x16 and ANFO for the main charges in each borehole, initiated with an appropriate detonating booster charge. The main charges weigh approximately 2.5 to 3.5 pounds per foot and the total charge per hole will be decided on proximity to nearest dwellings, site specific conditions and as determined by the drill depth of boreholes. Booster charges can be cast boosters or other cap-sensitive charge, the choice of which will be the discretion of the blaster in charge. The type of delay system will be Zipdet DD 25/500. The sequence will be 25ms. The maximum of explosives on any one delay period will be 20 lbs.

This project is expected to require 900 lbs of explosives. The blast will utilize approximately 5 lbs to 20 lbs of explosives per delay depending on the proximity to nearest dwellings.

As one means to control ground movement, sufficient inert stemming material will be loaded at the top of each borehole, beginning below the depth where competent rock was encountered. Stemming height will be determined by the discretion, experience and judgment of the blaster in charge, and site-specific conditions for each shot.

GROUND CONTROL

All blasts shall have sufficient cover of natural soil materials so as to prevent excessive movement of material from the blast zone or project site. Sufficient cover will be determined by the experience and judgment of the blaster in charge. The overburden on this project is 0-10 feet. The blaster will include in their consideration such factors as rock type, geologic conditions, borehole depth, charge weight, and any other relevant, site-specific conditions for each shot. If the blaster in charge determines there is not sufficient natural cover, additional soils should be placed atop the blast zone according to the blaster's instructions. In certain circumstances, artificial matting could be required, also according to the blaster's determination.

MONITORING BLAST EFFECTS

Seismic monitoring will be conducted by an independent third party, S&ME. Seismographs will be placed at the nearest residence to blast site.

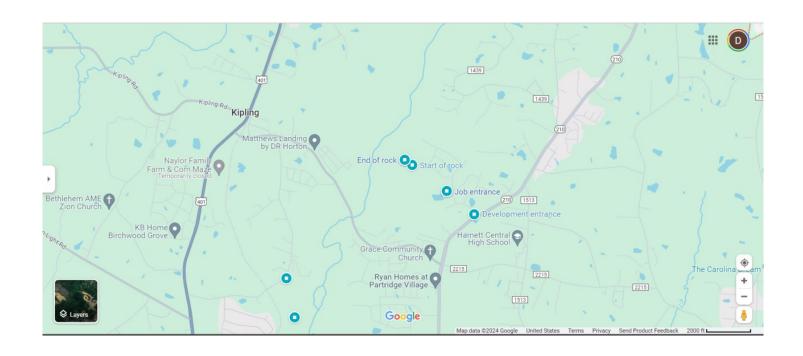
BLAST WARNING SIGNALS

Warning signals for each blast will be as follows:

Three long sounds of horn five minutes prior to the blast. Two short sounds of horn one minute before the blast. One long sound of horn for all clear after the blast.

BLAST RECORDS

A record of each blast will be kept with the date, time, location, total amount of explosives, maximum explosive charge weight per delay and where necessary seismograph records identified by instrument number and location. These files will be kept in Carolina Drilling, Incs office at: 326 Railroad St. Mocksville, NC 27028







Client#: 1975843 CAROLDRI

ACORD...

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 5/26/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

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PRODUCER	CONTACT Mackenzie Downs			
USI Insurance Services, LLC	PHONE (A/C, No, Ext): FAX (A/C, No):			
8540 Colonnade Center Dr.	E-MAIL ADDRESS: mackenzie.downs@usi.com			
Suite 111	INSURER(S) AFFORDING COVERAGE	NAIC#		
Raleigh, NC 27615	INSURER A: United States Fire Insurance Company	21113		
INSURED	INSURER B: North River Insurance Company	21105		
Carolina Drilling, Inc.	INSURER C: Hanover Insurance Company	22292		
326 Railroad Street, #2232	INSURER D:			
Mocksville, NC 27028	INSURER E:			
	INSURER F:			

COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:
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THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	SR TYPE OF INSURANCE		NCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	S
Α			LIABILITY			5069069127	06/01/2023	06/01/2024	EACH OCCURRENCE	\$1,000,000
		CLAIMS-MADE >	OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$300,000
									MED EXP (Any one person)	\$15,000
									PERSONAL & ADV INJURY	\$1,000,000
	GEN	I'L AGGREGATE LIMIT APF	PLIES PER:						GENERAL AGGREGATE	\$2,000,000
		POLICY X PRO- JECT	LOC						PRODUCTS - COMP/OP AGG	\$2,000,000
		OTHER:								\$
Α	AUTOMOBILE LIABILITY					5069069127	06/01/2023	06/01/2024	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	X	ANY AUTO							BODILY INJURY (Per person)	\$
		AUTOS ONLY	SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$
	Χ		NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
										\$
В	X	UMBRELLA LIAB X	OCCUR			5821213896	06/01/2023	06/01/2024	EACH OCCURRENCE	\$5,000,000
		EXCESS LIAB	CLAIMS-MADE						AGGREGATE	\$5,000,000
		DED RETENTION	\$							\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)								PER OTH- STATUTE ER	
			EXECUTIVE Y/N	N/A					E.L. EACH ACCIDENT	\$
) ·	N/A					E.L. DISEASE - EA EMPLOYEE	\$
		s, describe under CRIPTION OF OPERATION	IS below						E.L. DISEASE - POLICY LIMIT	\$
С	C Leased/Rented				IH6J01537000	06/01/2023	06/01/2024	\$600,000		
	Eq	uipment								

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION			
Harnett County Fire Marshal Division PO BOX 370 Lillington, NC 27546	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
	AUTHORIZED REPRESENTATIVE			

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