IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR **GEODE STATE PARK GEODE BOOSTER PUMP BUILDING** HENRY COUNTY, IOWA

PROJECT # 21-06-44-01

SHAHID HAMEED 16633 /OWA	
-----------------------------------	--

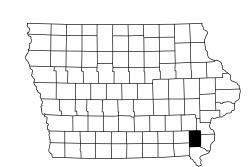
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa

Date

Shahid Hameed

My license renewal date is December 31, 2020.

Pages or sheets covered by this seal: ALL



PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLING A PRE FABRICATED CONCRETE BUILDING ALONG WITH THE BOOSTER PUMP AND PRESSURE TANKS AND OTHER MICSELANIOUS WORK ASSOCIATED WITH THE PROJECT.



AUTHORIZATION "	ΤO	BID
-----------------	----	-----

AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY DATE

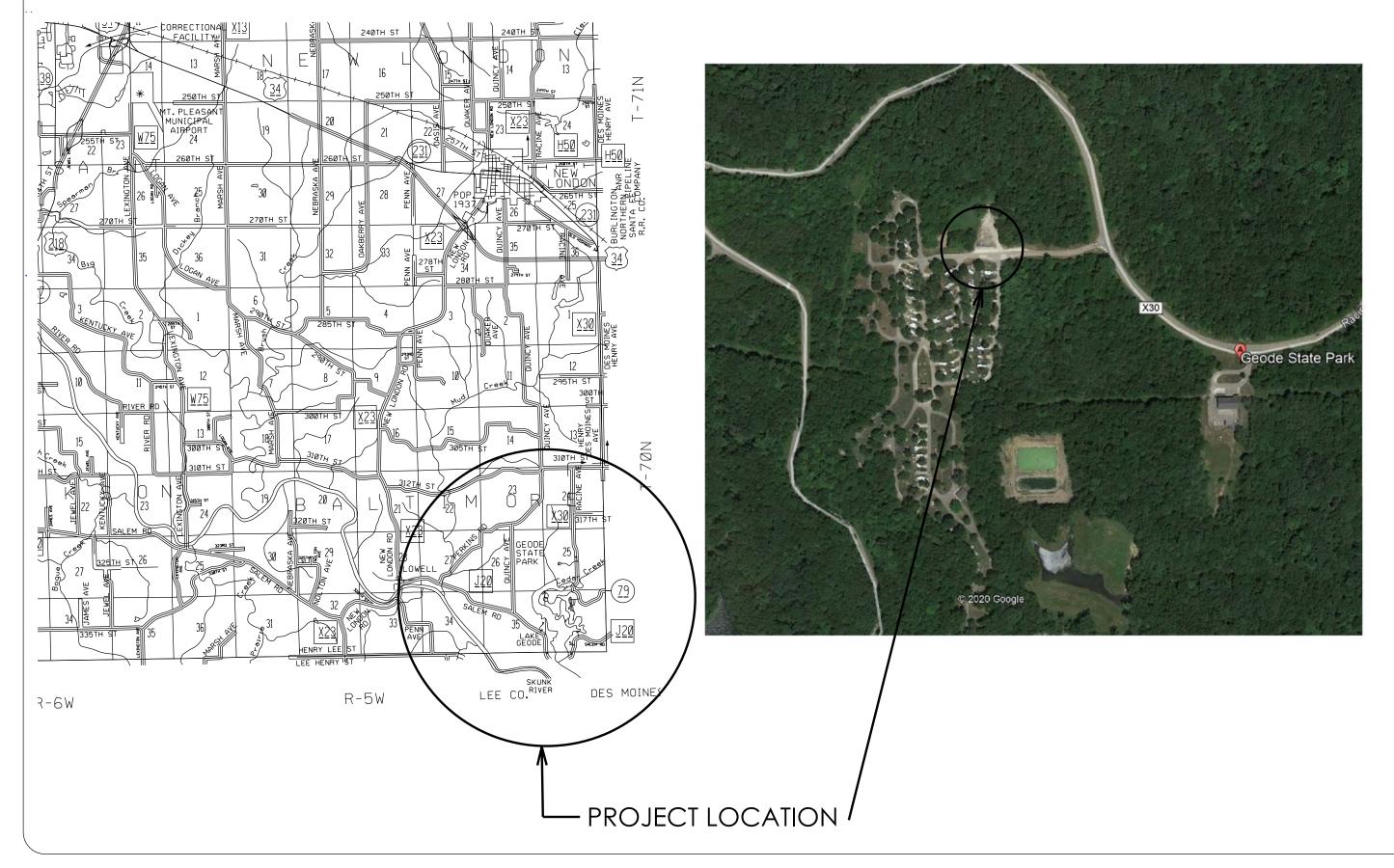
ENGINEERING BUREAU CHIEF

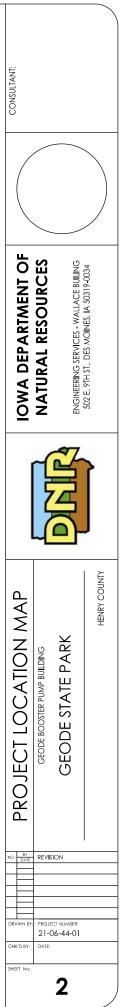
DATE

PROJECT MANAGER CONSTRUCTION INSPECTOR IOWA DEPARTMENT OF NATURAL RESOURCES. COMPANY IOWA DEPARTMENT OF NATURAL RESOURCES COMPANY ADDRESS 502 EAST 9TH STREET ADDRESS CITY,STATE,ZIP DES MOINES, IA, 50319 CITY,STATE,ZIF CONTACT MIKE HAMEED CONTACT MICHAEL DUFOE 515-725-8467 TELEPHONE 515-250-3713 TELEPHONE FAX FAX EMAIL EMAIL mike hameed@dnr.iowa.gov michael dufoe@dnr.iowa.gov

DIRECTORY

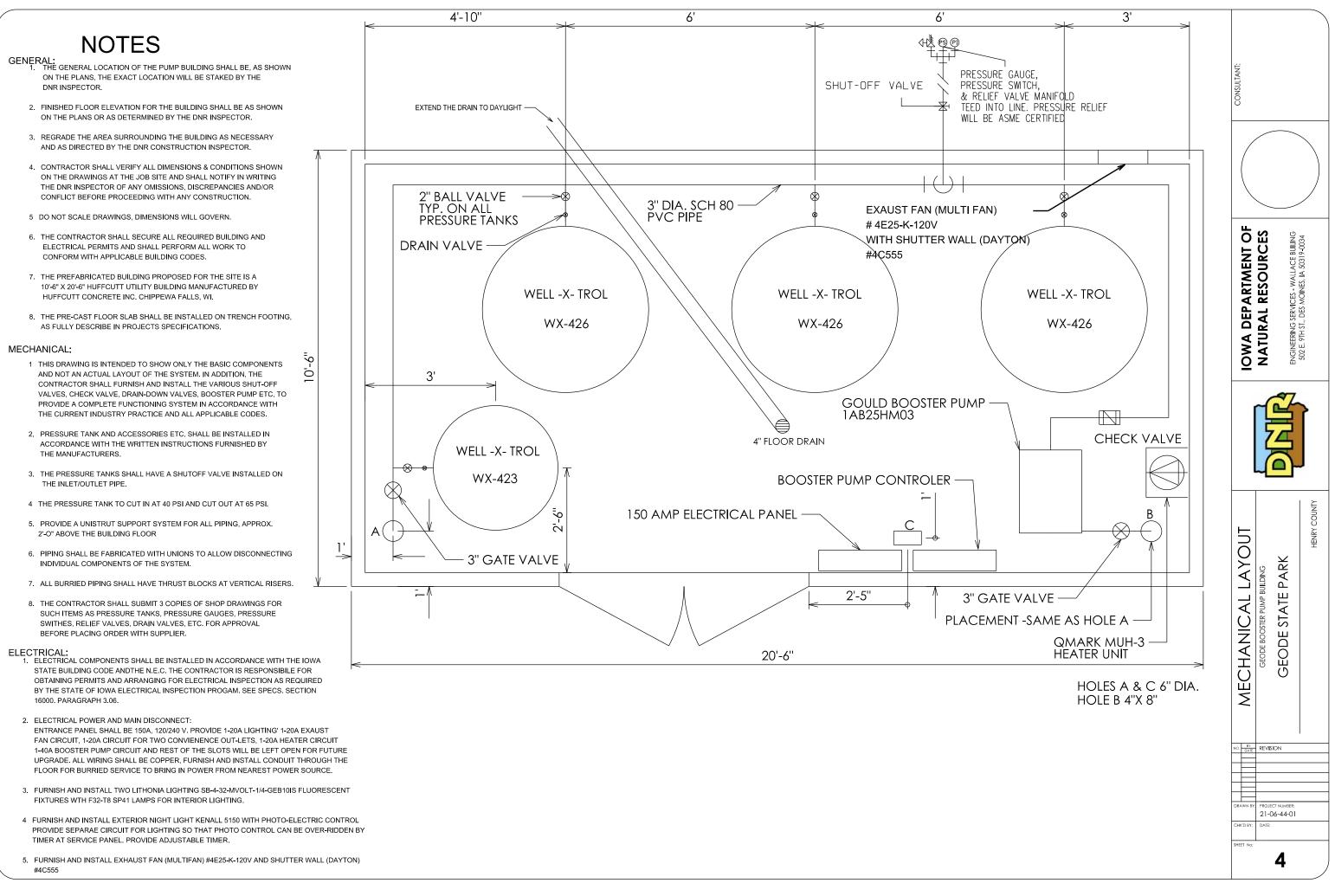
SHEET INDEX 1 COVER SHEET 2 LOCATION MAP	
2 LOCATION MAP	
3 BOOSTER PUMP BUILDING	
4 MECHANICAL LAYOUT	
5 QUANTITIES AND GENERAL INFORMATI	
	Ō
	———— I О Ш х х
	こ 〒 록 ĕ
	→ ² × V
	<u>Z</u> U <u>Z</u>
	S S Z ≤
	V K V V
	H. – Š. Š.
	L L L S b P
	IOWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILING 502 E. 97H ST., DES MOINES, IA 50319-0034
	<u>ନ</u> ଟି ⊅୍ ≷
	¥ -
	COUNTY
	HENRY C
	HENRY
- - - -	HENRY
	HENRY
Image: Constraint of the sector of	HERNES
	HENRY
	HENRY
Image: Constraint of the sector of	HENRY
Image: Constraint of the sector of	HENRY
	HENRY
Image: Constraint of the sector of	HENRY
Image: Constraint of the sector of	HENRY
	COVER SHEET CEODE BOOSTER PUMP BUILDING GEODE STATE PARK HENRY
	HENRY
Image: Constraint of the sector of the se	HENRY GEODE STATE PARK
	HENRY GEODE STATE PARK











ESTIMATED PROJECT QUANTITIES

TEM NO.	ITEM	UNIT	TOTAL
1	Mobilization	Lump Sum	1
2	Cleaning & Grubbing	Lump Sum	1
3	10'-6" X 20'-6" Pre-Cast Huffcutt Building Or Equal (Installed), Including grading.	Lump Sum	1
4	48" Deep and 12" Wide Trench Footing For the Building As Described In The Specs.	Lump Sum	1
5	18" Deep Class "A" Crushed Stone Under The Building	Tons	20
6	Electrical Service To The Building	Lump Sum	1
7	Complete Electrical System For The Building With Pump Wiring, Heater, Light, Fan etc.	Lump Sum	1
8	Complete Mechanical System For The Building, Booster Pump, Manifold, Pressure Tanks, Valves,	Lump Sum	1
	Pressure Switch, Gauges, Connections To The Existing Line, etc		
9	Access Path To The Building With Class "A" Crushed Rock	Tons	6
10	Disinfection Of The Distribution Network Including The Plumbing In The Building	Lump Sum	1
11	Site Restoration	Lump Sum	1

ESTIMATE REFERENCE INFORMATION

DESCRIPTION

ITEM

NO.

6 The approximate distance from transformer to building is about 500 ft.

11. Site restoration will include seeding & mulching.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with al ordinances.

The contractor shall visit the site and inspect the project area and themselves with the actual job conditions prior to bidding and the visit the project site shall not relieve the contractor from performing to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and condition shall notify the DNR Engineer of any discrepancies, omissions, and, proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or material (excavated material or broken concrete) which is not desi into the work involved on this project. No payment for overhaul w hauled to these sites. No material shall be placed within the rightstated in the plans or approved by the DNR Engineer.

The contractor shall not disturb desirable grass areas and desirable construction limits. The contractor will not be permitted to park o equipment or use these areas for storage of materials. Storage, pa will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or e construction area, it shall be the responsibility of the contractor to of those utilities prior to the beginning of any construction. The constructures and utilities for necessary modification of services. Un structures and utilities have been plotted from available surveys are their locations must be considered approximate only. It is possible existence of which is presently not known or shown. It is the contracter determine their existence and exact location and to avoid damage additional compensation will be allowed to the contractor for any i caused by such work.

The contractor shall shape graded area to maintain surface drainage finish grade.

The contractor is expected to have materials, equipment, and labor to install and maintain erosion control features on the project. Th fence, rock ditch checks, silt basins or silt dikes.

All construction will comply with SUDAS.

ll applicable codes and	CONSULTANT:
l thoroughly familiarize	
e start of work. Failure to ing the work in accordance	
ons shown on the plans and d/or conflicts prior to	
r disposal sites for excess sirable to be incorporated will be allowed for material t-of-way, unless specifically	OWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-0034
le trees outside the or service vehicles and parking and service areas	OWA DEP, NATURAL 502 E. 91H ST., DES
encountered within the o notify the DNR Engineer contractor shall be afforded Inderground facilities, and records and therefore le there may be others, the tractor's responsibility to e thereto. No claims for y interference or delay	
age. All elevations are to	
or available on a daily basis his may involve seeding, silt	
	CHK'D BY: DATE: SHEET No: 5