SCHEDULE-5c
WELL PROFILE

IOWA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER SUPPLY
CONSTRUCTION PERMIT APPLICATION

52263

NOTICE
THERE IS NO FEE FOR EXAMINATION OF THIS SCHEDULE

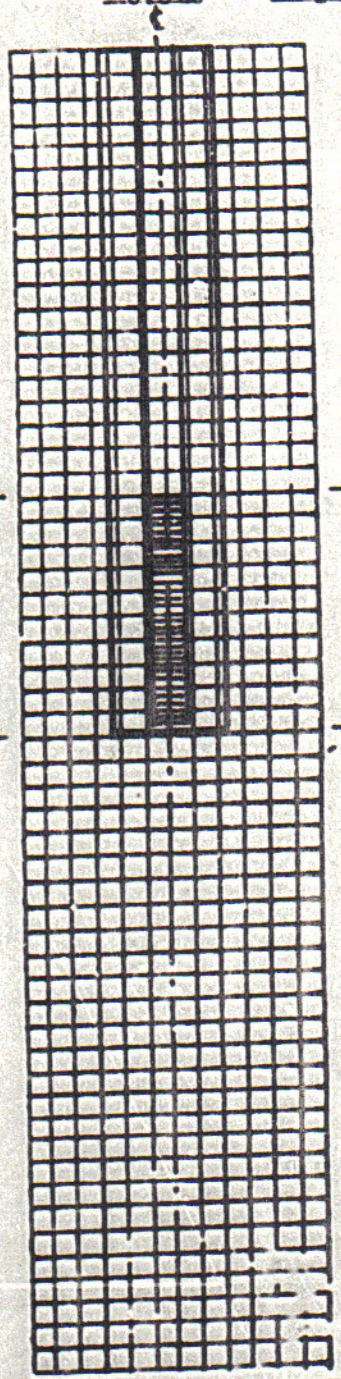
DATE PREPARED: 9-27-85
DATE REVISED: 8-26-86

PROJECT IDENTITY: MUNICIPAL WELL IMPROVEMENTS
HENDERSON, IOWA

PROJECT NO.:
PERMIT NO.:

Well Number: 86-1

Geological Data			Casing Data	Well Data
System	Formation	Material and distance from surface in ft.	Position, kind and extent of casing liners, shoes, etc	Scale: Horiz. 0.5ft Vert. 1 ft. Position of seals, screens, static level
1	Top Soil	0' - 3'		
2	Brown Clay	3' - 8'		
3	Gray Clay	8' - 13'		
4	Fine Medium Sand	13' - 18'		
5	Gravel Coarse Sand	18' - 28'		
6	Blue Clay	28' - 29'		



ws 52-5c (Nov 30, 82) *(previous editions of this form are obsolete)*

52263

SCHEDULE-5b WELL APPURTENANCES

IOWA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER SUPPLY
CONSTRUCTION PERMIT APPLICATION

NOTICE
THE FEE FOR EXAMINATION OF THIS SCHEDULE IS $30.00

DATE PREPARED: 9-27-85
DATE REVISED: 8-26-86

PROJECT IDENTITY
MUNICIPAL WELL IMPROVEMENTS
HENDERSON, IOWA

1. Well Number 86-1

2. Pump and Motor Information:
   a. Pump Type: Submersible
   b. Pump Capacity: 80 gpm at 200 TDH(ft.)
   c. Size of Pump Discharge Pipe: 6 inches
   d. Motor Horsepower: 5 HP

3. Method of regulating well pump starting and stopping: Pressure control switch in the meter pit on the distribution side of the system. (spec. page no. 2660-3)

4. For automatic control systems, what is the time delay period? _____ seconds N/A [X]

5. What type of antibackspin protection is provided? check valve on the discharge (spec. page no. 2660-1)

6. Has a low water level cutoff switch or pressure switch been provided and equipped with automatic restart to prevent drawdown of water in the well below the well screen?
   Yes [ ] No [X]

7. Method of surface drainage control away from well site grading to provide positive drainage

8. 100-year flood elevation 1,034.7
   Original ground elevation at the well site 1,035.0
   Elevation of top of well casing 1,038.5
   Elevation of top of earthen well berm at the well 1,037.0
   Elevation of floor slab NA

9. Radius of top of earthen berm 15' Slope of berm 2:1

10. Method of berm erosion control seeding (spec. page no. 2800-2)

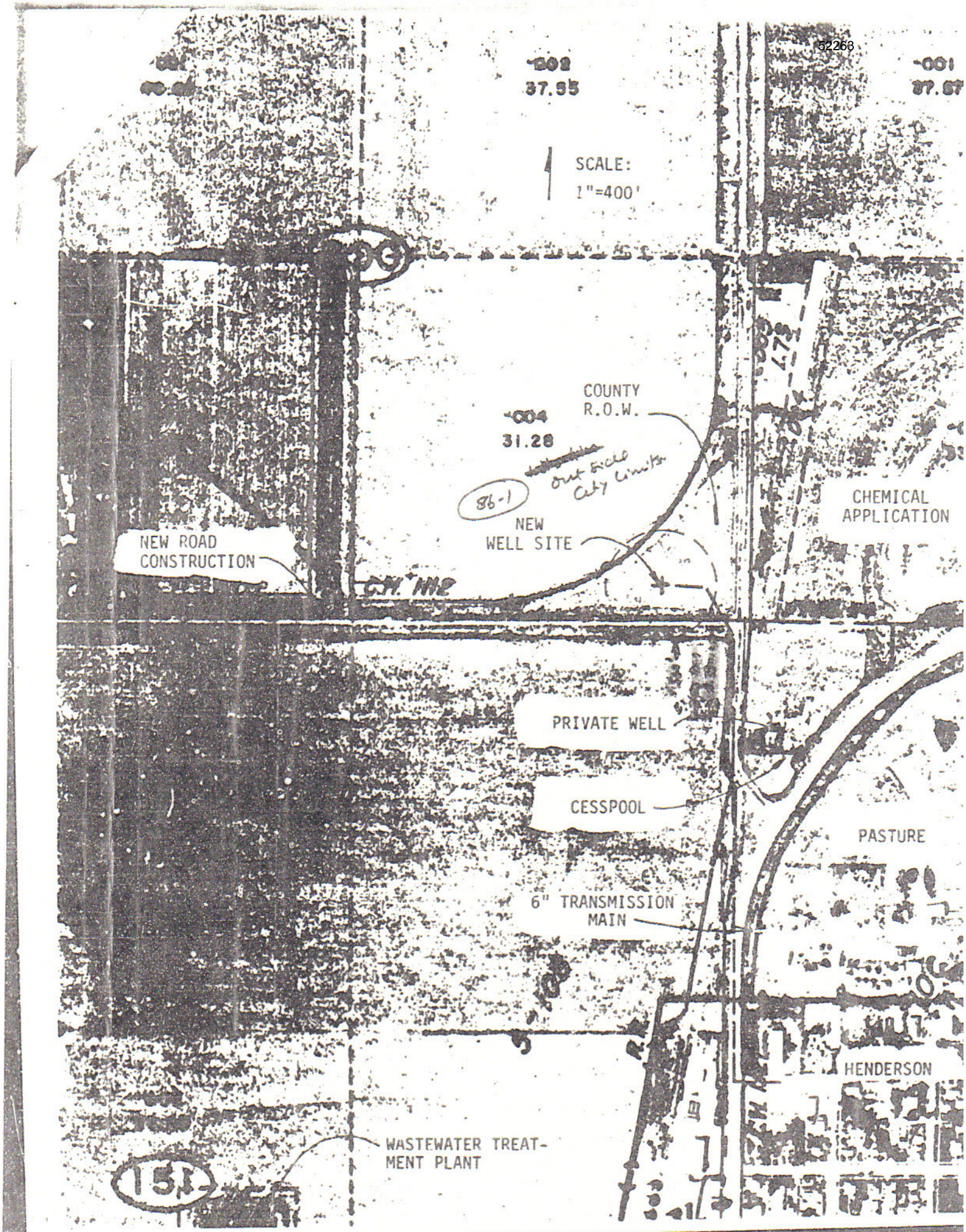
11. For the following, describe the type of equipment installed, reference the applied DEQ, AWWA, GLUMRB or ASTM design standard source and number, and list the page of the plans or specifications where the description can be found.

Well Pump, Discharge Piping and Appurtenances	Description	DEQ	AWWA	GLUMRB	ASTM	Standard Number	Page Number
Pump	xxxxxxxxxxxxxxxxx		X			E101	2660-1
Discharge Pipe	xxxxxxxxxxxxxxxxx		X			C150	2660-2
Pitless Well Unit	Monitor 10 in	X				3.2.7c	2660-3
Casing Vent	Monitor Cap	X				3.2.7c	2660-3
Water Level Measurement	Monitor	X				3.2.7c	2660-3
Disinfection	xxxxxxxxxxxxxxxxx		X			C601	2660-3

12. Type of pump lubrication water (spec. page no. 2660-2)

13. List all appurtenances provided on each well discharge line in sequence from the well:
    check valve
    meter
    check valve
    gate valve

ws 52-5b (Nov 30, 82) *(previous editions of this form are obsolete)*


002
37.35
001
SCALE:
1"=400'
COUNTY
R.O.W.
004
31.28
Out side City limits
86-1
NEW
WELL SITE
NEW ROAD
CONSTRUCTION
CHEMICAL
APPLICATION
PRIVATE WELL
CESSPOOL
PASTURE
6" TRANSMISSION
MAIN
HENDERSON
WASTEWATER TREAT-
MENT PLANT
151