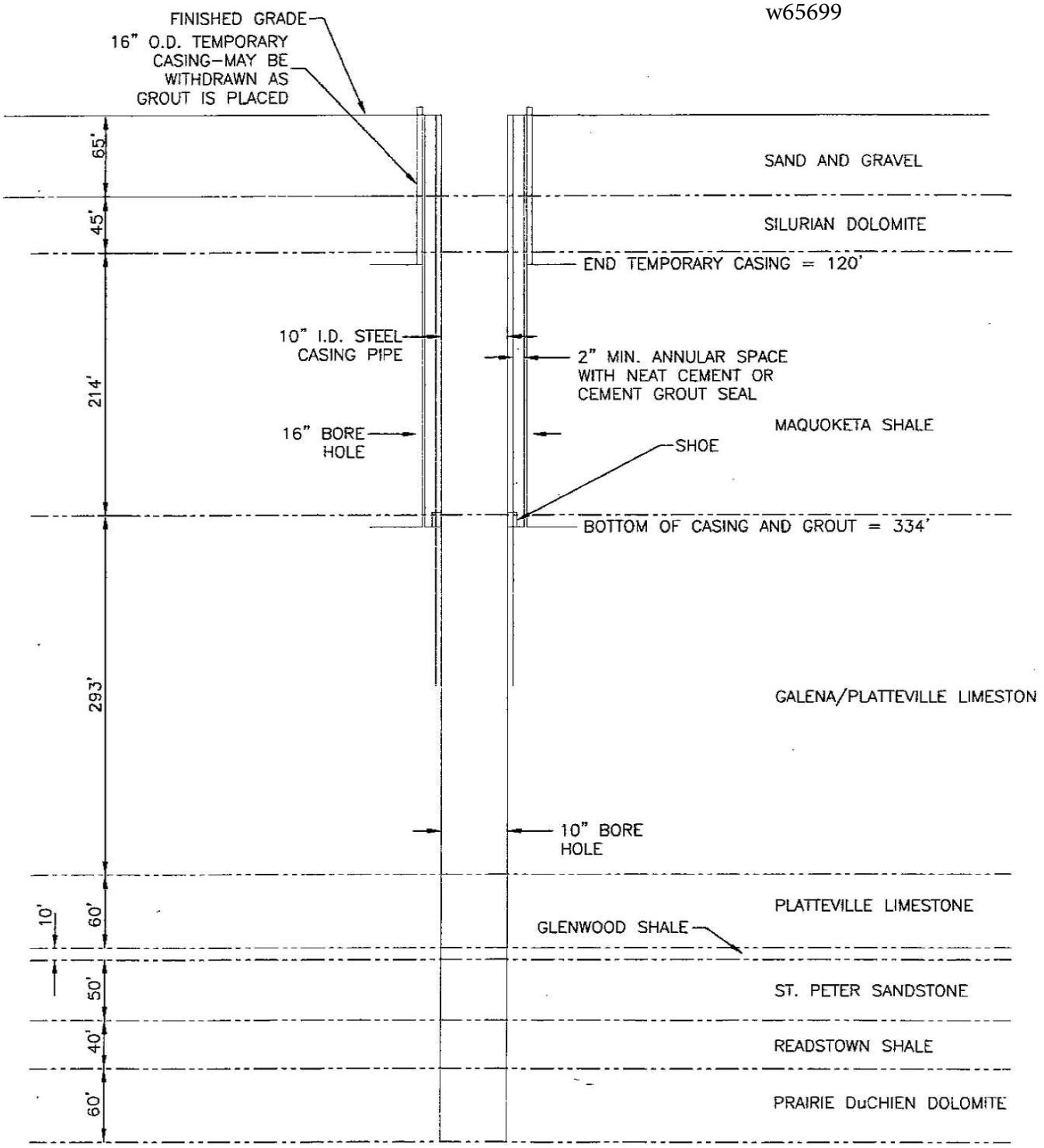
w65699



WELL DETAIL
NO SCALE

Raymond Professional Group, Inc.
Raymond Professional Group - Illinois, Inc.
2610 52nd Avenue
Moline, Illinois 61265
Tel: (309) 757-0160 Fax: (309) 757-0232

CHARLOTTE WELL DETAIL				SCALE: NTS	
				FILE NAME: proposed well.dwg	
DATE: 02/04/05	DRAWN BY: FLK	APPROVED BY: RGM	PROJECT NUMBER: 81-8423	DRAWING NO.: 02670-20	REV

SECTION 11216

SUBMERSIBLE VERTICAL TURBINE PUMPS

GENERAL

WORK INCLUDES

Submersible motor-driven vertical turbine pump including: motor and pump; discharge column assembly; bowl assembly; suction pipe and strainer; power cable; water level indicators; pitless adaptor unit and accessories and fittings.

SUBMITTALS

A. Product Data:
1. Submit certified pump curves showing pump performance characteristics with pump and system operating point plotted.
2. Include NPSH curve when specified.

B. Submit 2 copies of start-up report to Engineer.

C. Submit shop drawings, manufacturer's operation, maintenance, and installation instructions under provisions of Section 01300.

PART 2 PRODUCTS

2.1 SUBMERSIBLE VERTICAL TURBINE PUMP

A. Operating Conditions: Contractor to verify with results of test pumping prior to ordering pump and controls. Submit changes to Engineer.

1. Size of well (inside diameter)	10	inches
2. Depth of well	815	feet
3. Static water level below top of well	195	feet
4. Pumping level below top of well	240	feet
5. Pump mounting level below top of well	340	feet
6. Pumping head above top of well (static)	100	feet
7. Total pumping head	360	feet
8. Capacity of pump	170	GPM

B. Total pumping head does not include losses in pumping unit, which must be evaluated by Contractor.

3.6 PUMP SCHEDULE

Location	Well #4
Manufacturer	Crown Pump Corporation, or equal
Model	SCH-225
Pumping Requirement	
Capacity	170 GPM
Maximum Head (TOH)	360 Ft.
Stages	12
Efficiency	71 (Min.)
Motor Horsepower	25 HP
RPM	3500
Column Pipe Size	4"
Electrical Service	480 Volt; 3 Phase
Miscellaneous Requirements	1. Trim each stage to meet head/discharge condition given. 2. Provide pump with all bronze impellers and bowls. 3. Franklin Motor with Subtrol Unit.

END OF SECTION