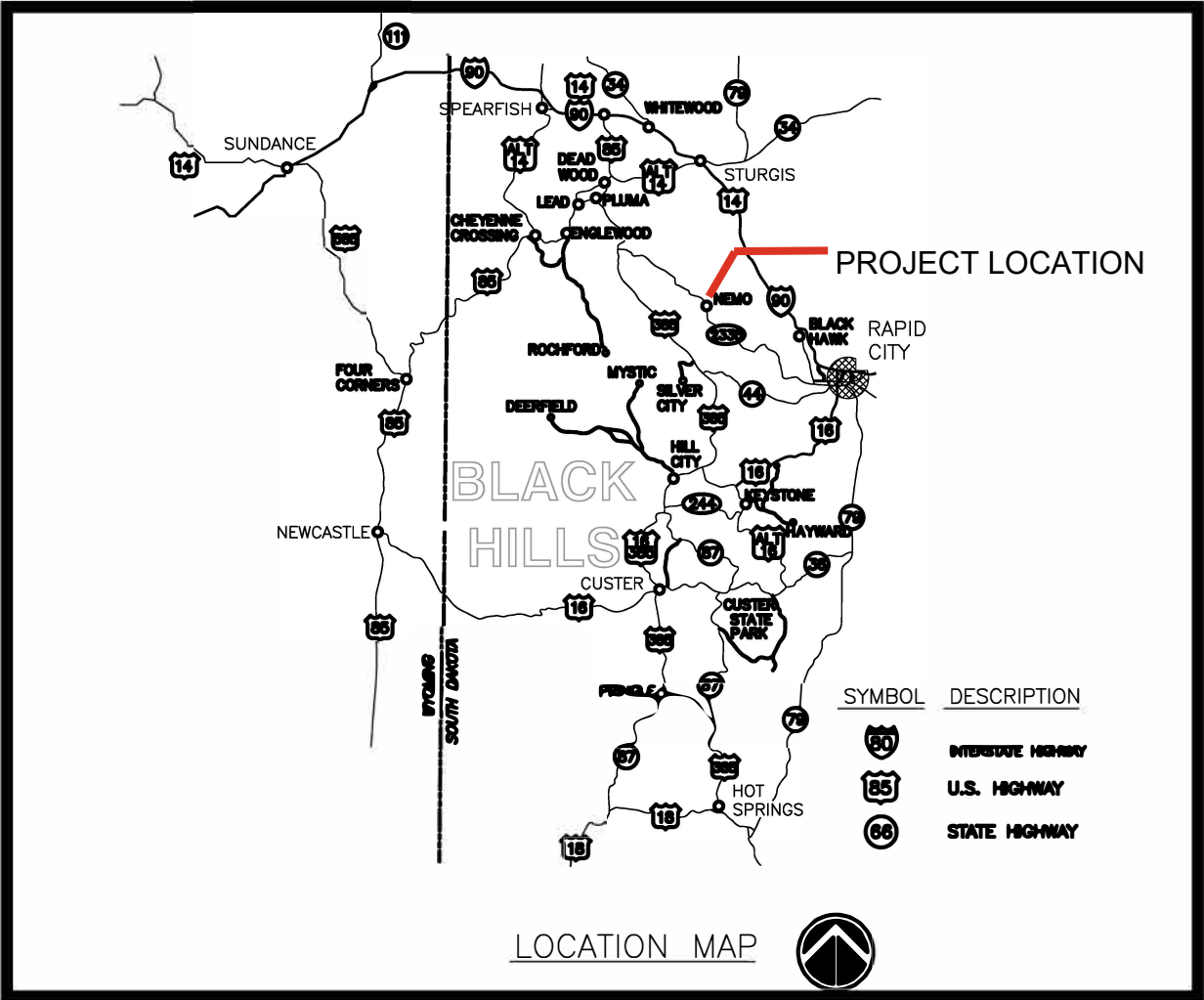




United States Department of Agriculture
Forest Service

SOUTH DAKOTA
FOREST WIDE
R2 ROCKY MOUNTAIN REGION
BLACK HILLS NATIONAL FOREST
NORTHERN HILLS DISTRICT

NEMO DOMESTIC WELL



INDEX OF SHEETS	
SHEET	SHEET TITLE
1	TITLE SHEET
C1.0	WELL LOCATION MAP
C2.0	WELL DETAILS

I HAVE REVIEWED THE TECHNICAL ASPECTS OF THESE DRAWINGS .

ALBERTA SETTLE

PROJECT MANAGER

DATE

Digitally signed by ALBERTA SETTLE

Date: 2026.08.27 08:32:36 -06'00'

RICHARD ZACHER

FOREST ENGINEER

DATE

Digitally signed by RICHARD ZACHER

Date: 2026.08.31 14:03:48 -06'00'

RECOMMENDED BY:

GERARDO CHAVARRIA

ENGINEERING/REGIONAL SPECIALIST

DATE

Digitally signed by GERARDO CHAVARRIA

Date: 2026.09.01 08:05:51 -06'00'

THESE DRAWINGS COMPLY WITH THE FOREST PLAN AND PROJECT SPECIFIC NEPA DOCUMENTATION.

PATRICK CHAMPA

DISTRICT RANGER, NORTHERN HILLS RANGER DISTRICT

DATE

Digitally signed by PATRICK CHAMPA

Date: 2026.08.31 15:31:24 -06'00'

SHAWN COCHRAN

FOREST SUPERVISOR

DATE

Digitally signed by SHAWN COCHRAN

Date: 2026.08.31 16:04:45 -06'00'

APPROVED BY:

CORRINE KEGEL

DIRECTOR OF ENGINEERING

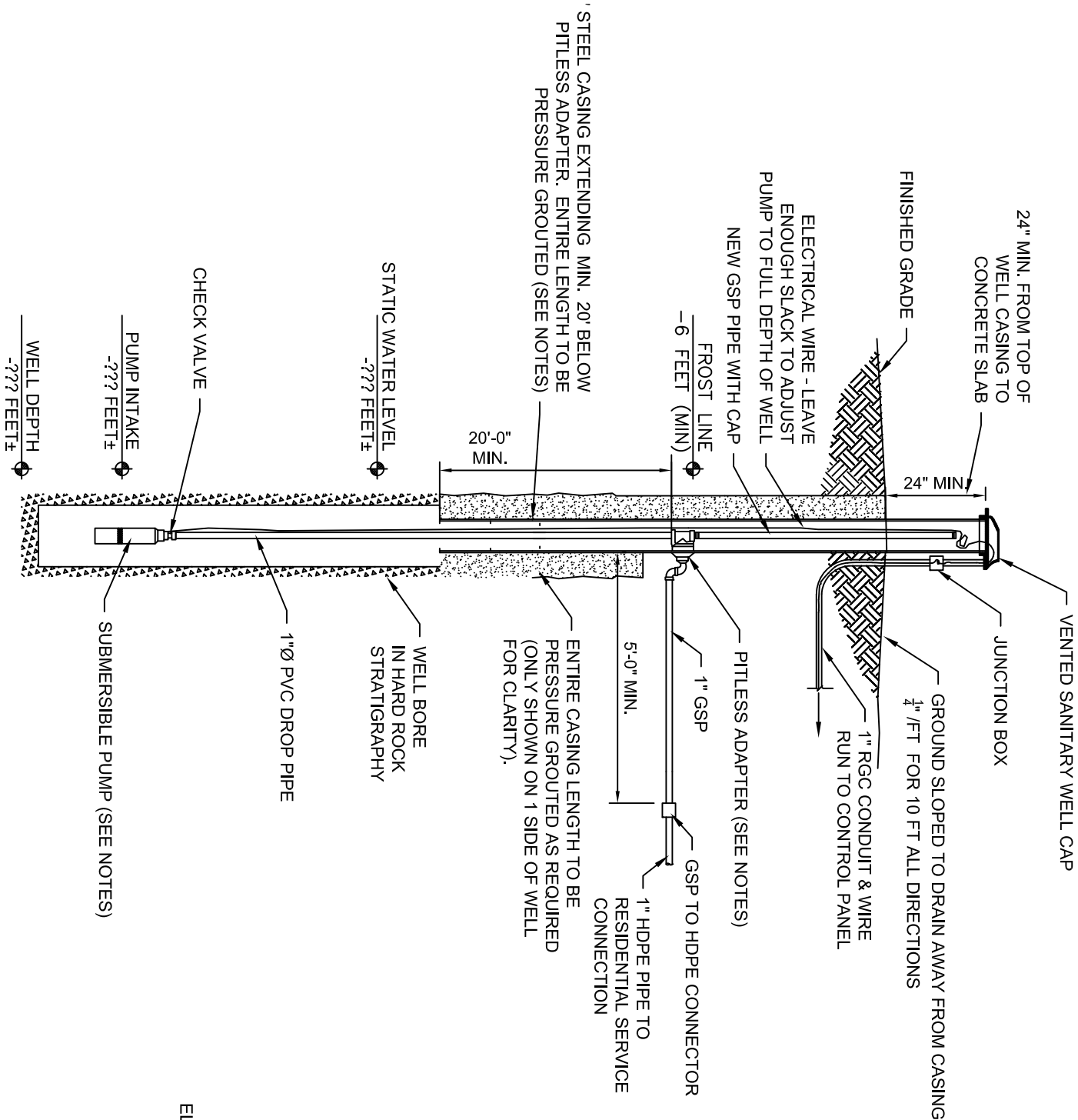
DATE

Digitally signed by CORRINE KEGEL

Date: 2026.09.01 10:21:10 -06'00'

SHEET 1

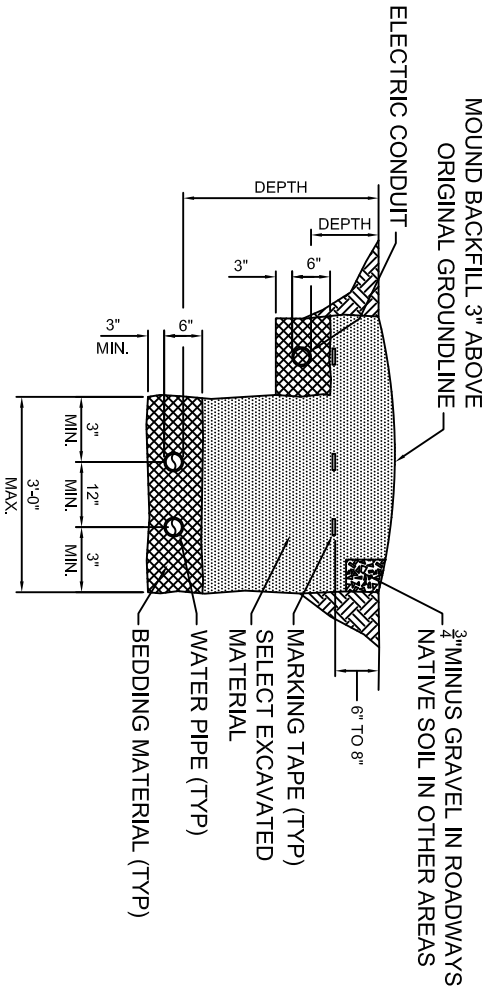
OF 3



A
TYPICAL WELL HEAD DETAIL
NO SCALE

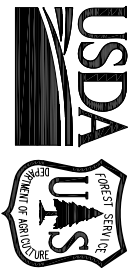
GENERAL NOTES:

1. DRILL NEW WELL AT LOCATION STAKED BY CONTRACTING OFFICER AND IN ACCORDANCE WITH ARSD 74:02:04
2. DRILL AND CONSTRUCT NEW WELL IN ACCORDANCE WITH SOUTH DAKOTA CODIFIED LAW (SDCL) 46-6 AND SD ADMINISTRATIVE RULES (ARSD) 74:02:04.
3. WELL CONSTRUCTION ASSUMES HARD ROCK WELL CONSTRUCTION PER ARSD 74:02:04:32 AND 74:02:04 APPENDIX E.
4. TOTAL WELL DEPTH SHALL BE DETERMINED BY CONTRACTOR BASED UPON CONDITIONS ENCOUNTERED DURING DRILLING AND SD DANR REQUIREMENTS.
5. WELL CONSTRUCTION METHOD SHALL BE DETERMINED BY CONTRACTOR AND APPROVED BY C.O.
6. CASING SHALL BE MINIMUM 6" STEEL SCHEDULE 40 MINIMUM 19.18 LBS/FT.
7. HARD ROCK WELL CONSTRUCTION CASING SHALL EXTEND MINIMUM 20 FT BELOW BOTTOM OF PITLESS ADAPTER.
8. ENTIRE CASING LENGTH SHALL BE PRESSURE GROUTED WITH CEMENT GROUT.
9. PROVIDE AND INSTALL NEW PITLESS ADAPTER.
10. PROVIDE AND INSTALL NEW SUBMERSIBLE PUMP, MINIMUM 2 HP. EXACT PUMP SIZE SHALL BE DETERMINED BY CONTRACTOR BASED ON FINAL WELL DEPTH, STATIC WATER LEVEL, WELL CAPACITY, AND HEAD LOSSES BETWEEN WELL PUMP AND SERVICE LOCATION AT RESIDENCE. CONTRACTOR'S PUMP RECOMMENDATION SHALL BE SUBMITTED TO CONTRACTING OFFICER FOR REVIEW AND APPROVAL BEFORE CONTRACTOR INSTALLS PUMP.
11. INSTALL NEW SUBMERSIBLE PUMP AT LEAST 15 FEET OFF THE BOTTOM OF THE WELL AND WITHIN THE WATER DRAWDOWN LEVEL AS DETERMINED BY CONTRACTOR'S PUMP TEST.
12. PROVIDE AND INSTALL NEW PUMP SAVER AND TORQUE ARRESTOR.
13. PROVIDE AND INSTALL ALL NEW WELL CONTROL DEVICES WITH NEW WIRING AS NECESSARY FOR COMPLETE AND OPERATIONAL DOMESTIC WATER WELL SYSTEM.
14. PROVIDE AND INSTALL NEW CONTROLS AND CONTROL PANEL IN EXISTING UTILITY VAULT. REMOVE EXISTING PUMP CONTROLS AND RETURN TO GOVERNMENT. INSTALL NEW CONTROLS AT SAME LOCATION. RUN UTILITES THROUGH EXISTING VAULT PENETRATIONS.



UTILITY TYPE	DEPTH
WATER SUPPLY	6'-0" MIN
ELECTRIC CONDUIT	1'-0"

B
MULTIPLE UTILITY TRENCH
NO SCALE



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

STAMPS, LOGOS, AND SEALS

3		
2		
1		
NO.	REVISION /ISSUE	DATE

PROJECT NAME

NEMO DOMESTIC
WELL

DRAWING TITLE

TYPICAL WELL
DETAILS

ARCHIVE NO.

DESIGNER
J.SMITH

SUB SHEET NO.

CHECKED
A. SETTLE

C2.0

DATE

3
OF