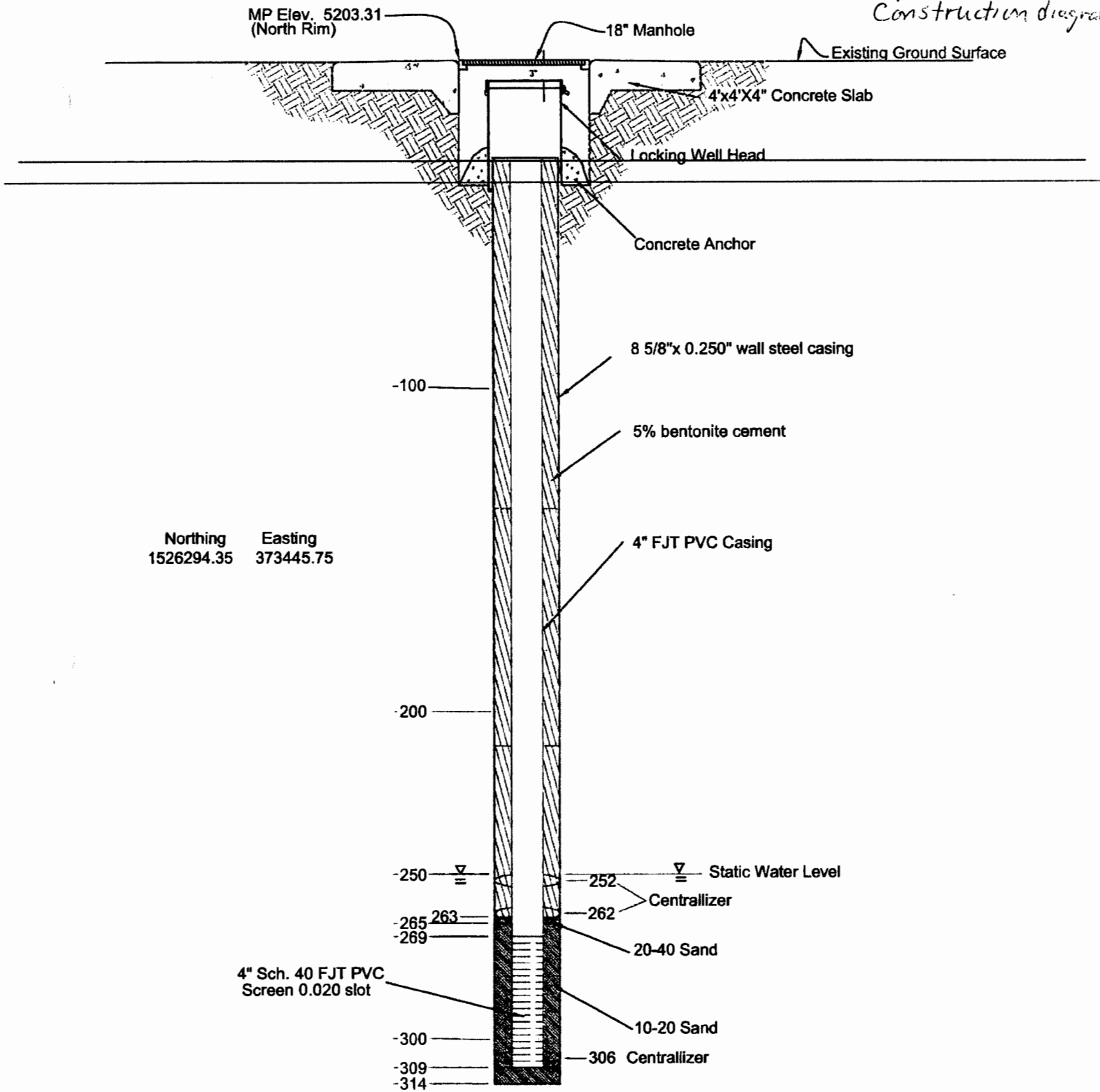
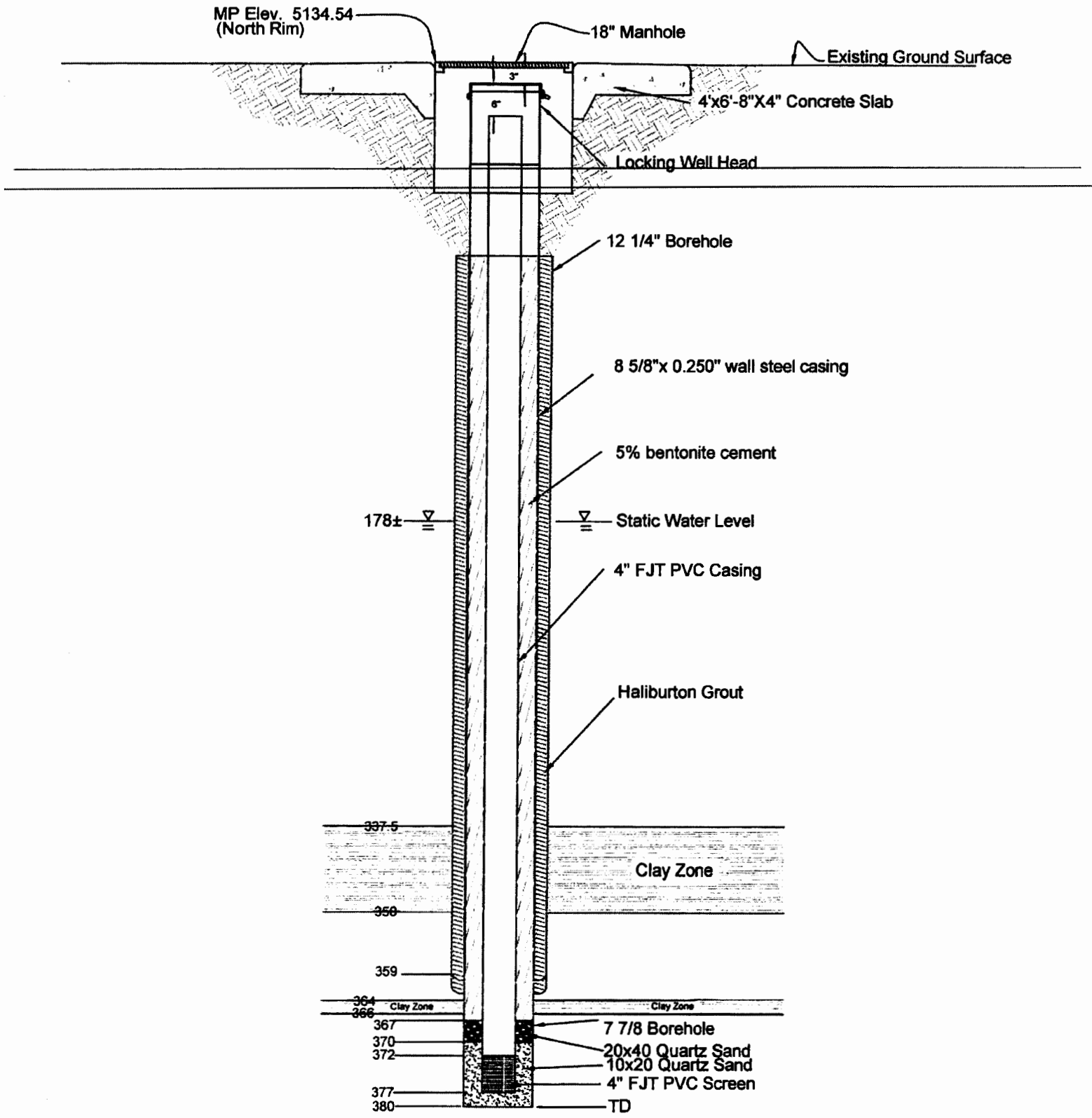


ENTERED

Sparton 9/5/18
Replacement well
Construction diagrams



MW-80
Construction Diagram
SPARTON TECHNOLOGY, INC.



MW-71-R
Construction Diagram
SPARTON

METRIC
Corporation

SAMPLE LOG

Borehole Number MW-71R Borehole Location N. 1525712.2, E. 375531.4
Property Owner Sparton Technology, Inc.
Sample Logger Joe Sandoval and Peter Metzner, METRIC Corproation
Driller Rodgers Environmental Services
Drilling Medium Mud rotary
Date of Completion February 20, 2002 Ground Elevation 5134.0 ft.

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Stratigraphic Description</u>
0 - 10	10	Grayish orange (10YR 7/4), poorly sorted, subangular to subrounded, fine to very coarse sand.
10 - 45	35	Grayish orange (10YR 7/4), poorly sorted, subangular to subrounded, fine sand to granule gravel.
45 - 65	20	Grayish orange (10YR 7/4), poorly sorted, subangular, very fine to coarse sand.
65 - 75	10	Grayish orange (10YR 7/4), poorly sorted, subangular, fine to coarse sand.
75 - 100	25	Grayish orange (10YR 7/4), medium sorted, subangular, fine to coarse sand.
100 - 105	5	Grayish orange (10YR 7/4), poorly sorted, subangular, very fine to very coarse sand.
105 - 110	5	Grayish orange (10YR 7/4), medium sorted, subangular, fine to coarse sand.
110 - 115	5	Grayish orange (10YR 7/4), medium sorted, subangular, medium to very coarse sand.
115 - 120	5	Grayish orange (10YR 7/4), poorly sorted, subangular, very fine to coarse sand.

METRIC
Corporation

SAMPLE LOG

Borehole Number MW-71R Borehole Location N. 1525712.2, E. 375531.4

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Stratigraphic Description</u>
120 - 135	15	Grayish orange (10YR 7/4), poorly sorted, subangular to subrounded, fine to coarse sand.
135 - 140	5	Light brownish gray (5YR 6/1), medium sorted, subangular, medium to coarse sand.
140 - 150	10	Light brownish gray (5YR 6/1), well sorted, subangular, coarse to very coarse sand.
150 - 165	15	Light brownish gray (5YR 6/1), medium sorted, subangular, fine to coarse sand.
165 - 185	20	Light brownish gray (5YR 6/1), well sorted, subangular, very coarse sand to granule gravel.
185 - 200	15	Light brownish gray (5YR 6/1), medium sorted, subangular to subrounded, medium to very coarse sand.
200 - 210	10	Grayish orange (10YR 7/4), poorly sorted, subangular, clayey, very fine sand to granule gravel.
210 - 220	10	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, clayey, very fine to coarse sand.
220 - 225	5	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, clayey, very fine to very coarse sand.
225 - 235	10	Pale yellowish brown (10YR 6/2), poorly sorted, subangular to subrounded, coarse to very coarse sand.
235 - 290	55	Pale yellowish brown (10YR 6/2), poorly sorted, subangular to subrounded, very fine to very coarse sand.

METRIC
Corporation

SAMPLE LOG

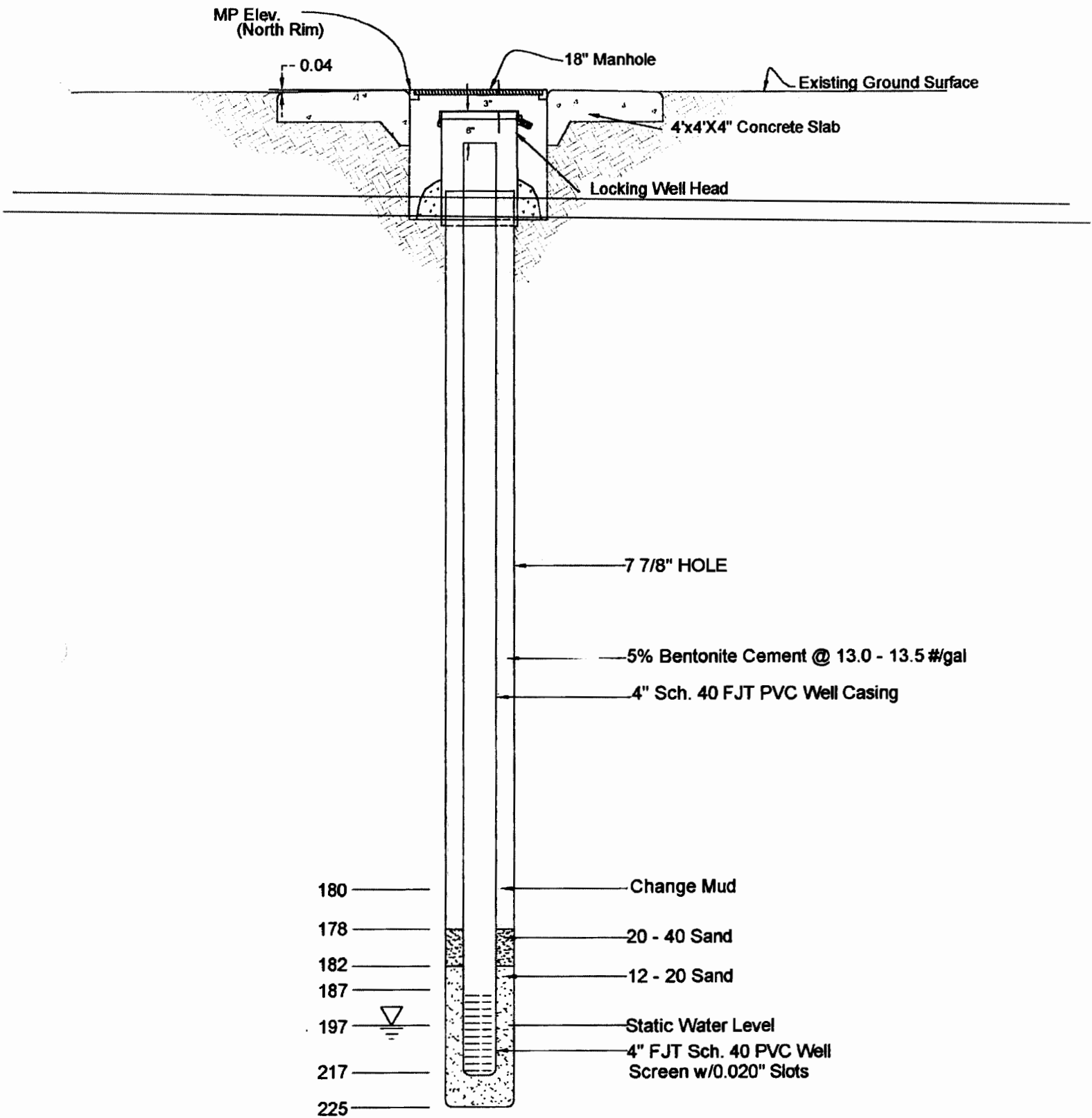
Borehole Number	<u>MW-71R</u>	Borehole Location	<u>N. 1525712.2, E. 375531.4</u>
Depth (feet)	Thickness (feet)	Stratigraphic Description	
290 - 330	40	Pale yellowish brown (10YR 6/2), medium sorted, subangular, medium to very coarse sand.	
330 - 337.5	7.5	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, fine to coarse sand with 10% clay layers.	
337.5 - 340	2.5	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, very fine to very coarse sand with 20% clay layers.	
340 - 344.5	4.5	Pale yellowish brown (10YR 6/2), medium sorted, subangular, fine to coarse sand with 50% clay layers.	
344.5 - 345	0.5	Pale yellowish brown (10YR 6/2) clay.	
345 - 350	5	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, coarse sand with 20% clay layers.	
350 - 364	14	Pale yellowish brown (10YR 6/2), medium sorted, subangular, fine to coarse sand.	
364 - 365	1	Pale yellowish brown (10YR 6/2) clay.	
365 - 366	1	Pale yellowish brown (10YR 6/2) clay with sand layers.	
366 - 375	11	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, very fine sand to granule gravel.	
375 - 380	5	Pale yellowish brown (10YR 6/2), poorly sorted, subangular, medium sand to granule gravel.	

MW-57D

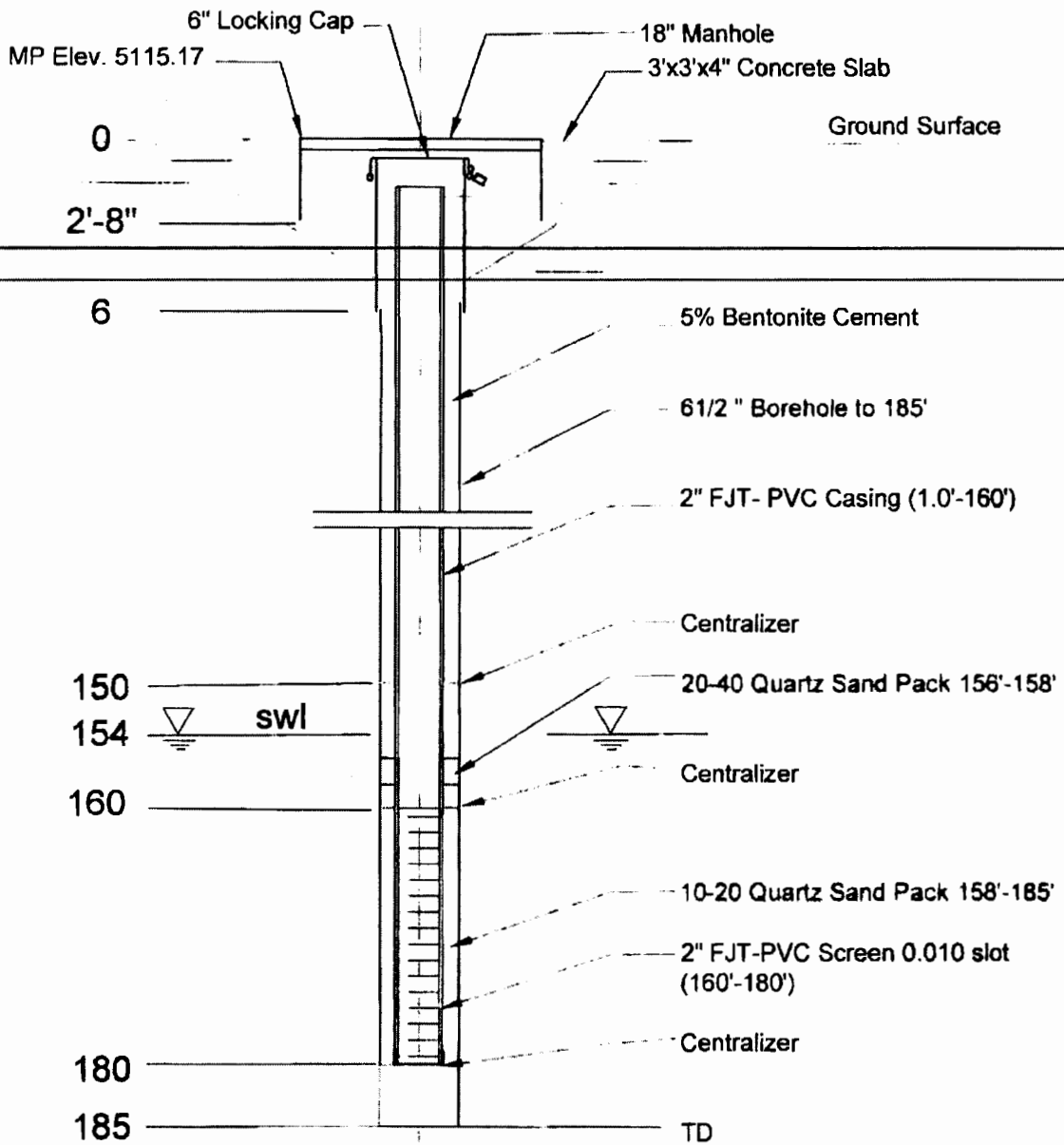
Well MW-57 is about 144 feet deep and is completed with 4-inch PVC casing and 15 feet of screen at the bottom. The plan is to deepen the well, and screen it between a depth of 148 feet and 168 feet. The well will be deepened by 27 feet by drilling through the well with a 3-7/8 inch drill bit to a depth of about 171 feet using a rotary mud drilling rig. All spent drilling mud will be stored in 55 gal drums that will be hauled to the source containment well (CW-2) treatment facility. All drill cuttings will also be hauled to the CW-2 treatment facility in 55 gal drums. After an evaporation period the settled materials will be sampled, and appropriately disposed based on the sampled results. A 2-inch diameter screen and casing assembly consisting of a 20-foot screen with a plug and cap at the bottom, and casing extending to the ground surface will then be lowered through the existing casing and screen and into the hole. Centralizers will be installed on the bottom of the screen, and at 7 and 22 feet above the top of the screen to insure that the screen is centered in the hole and within the existing screen, and that a complete seal can be placed above the sand-pack surrounding the new screen. A sand-pack consisting of 10-20 sand will be placed by tremie into the annular space between the screen and the hole and into any vacant space that may have remained at the bottom of the hole; this sand-pack will extend to 2 feet above the top of the screen, and an additional 2 feet of finer 20-40 sand will be placed on the top to prevent the downward seepage of the bentonite-cement grout that will be placed into the remainder of the annular space to the ground surface also by tremie. The well will be developed using standard development procedures. Water produced during development will also be stored in 55 gal drums at the on-site treatment facility to allow for the settlement of most of the suspended materials. Water from the drums will be routed to the treatment facility for treatment and return to the aquifer through the infiltration ponds. The settled materials will be sampled, and appropriately disposed based on the sampling results.

STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO
2011 APR 28 PM 3:57

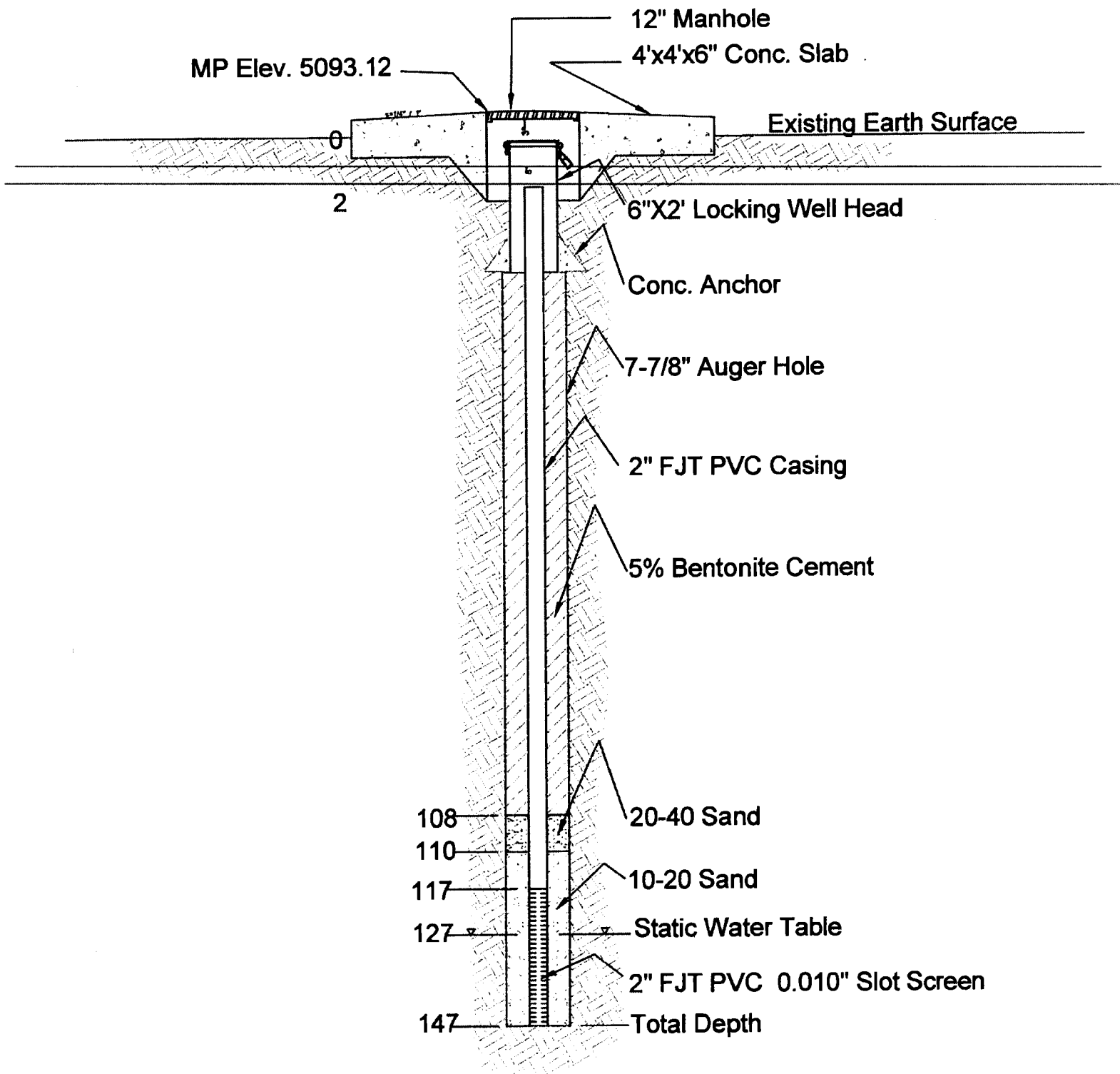
The hole will be drilled to 3 feet below the planned screened interval to allow for the storage of debris that may fall into the hole during the casing/screen assembly installation.



MW-52R CONSTRUCTION DIAGRAM



MW-47R
 N1524933.31 E375607.91
 Construction Diagram
 SPARTON
 8-8-2012



MW- 37-R
COMPLETION DIAGRAM
SPARTON CORP

METRIC
Corporation

SAMPLE LOG

Borehole Number MW-37-R Borehole Location N 1524782.8542, E 376104.5253

Property Owner City of Albuquerque, New Mexico

Sample Logger NA

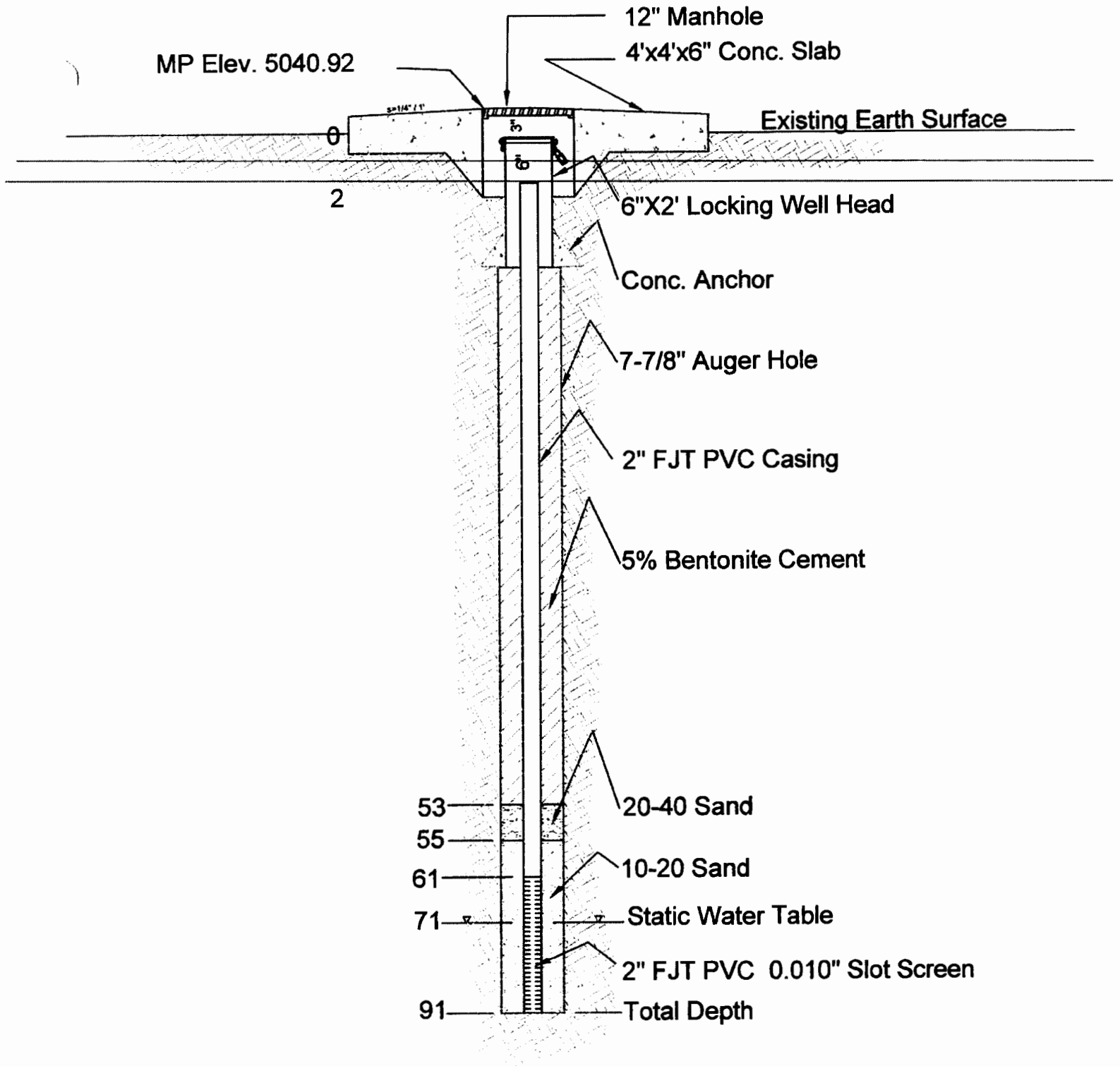
Driller Rodgers Environmental Services

Drilling Medium Hollow stem auger

Date of Completion January 3, 2002 Ground Elevation 5093.12 ft

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Stratigraphic Description</u>
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Samples destroyed prior to logging. See sample log for MW-37.



**MW- 14-R
COMPLETION DIAGRAM
SPARTON CORP**