APPENDIX A
SOIL BORING LOGS

SOIL BORING LOG
HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/16/09
Boring Number: PW-1	Coordinates:25" 26'12.7306 N; 80"19'16.6207 W	Date End: 1/23/09
Elevation: 3.51' NAVD 88	Depth GW: 6.27 Date: 1/21/09	Sheet 1 of 1
Geologist/Engineer: D.Daigle	Depth GW: 5.45 Date: 1/26/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1–8		drill cuttings		Fill material (rock fragments, gravel, shell)				
9	-5.49							
10	-6.49			Peat-dark brown, plant material, sl. moist	PT			
11–30		drill cuttings		Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell casts, small voids; wet; (calcarenite)				
31–32	-28.49							
33–42		drill cuttings		Lt gray cemented sand and fine sand; cemented sand frags; wet				
43–46	-38.49	drill cuttings		Lt gray limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure still noted;				
47–52				Total Depth 46'				

BORING LOG
HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/07/09
Boring Number: MW-1 IS	Coordinates:25"26'12.3058" N; 80'19'17.2599" W	Date End: 1/08/09
Elevation: 3.00' NAVD 88	Depth GW: 5.64 Date: 1/21/09	Sheet 1 of 2
Geologist/Engineer: D.Daigle	Depth GW: 5.31 Date: 1/26/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1-4		drill cuttings		Fill material (rock fragments, gravel, shell)				
5-6		SPT	5-4-4-5					
7-8	-5.0	drill cuttings						
9				Peat-dark brown, plant material, sl. moist	PT			
10	-7.0							
11-12		SPT	7-16-19-18	Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell molds, small voids; wet; (calcarenite)				
13-15								
16-17		SPT	5-7-14-10					
18-30		drill cuttings		mud loss				
31-32		SPT	10-18-21-29					
33	-29	SPT	16-15-32-17	Lt gray cemented sand and fine sand; cemented sand frags;				
34-50				Lost drill bit in hole, move to new location				

BORING LOG
HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/07/09
Boring Number: MW-1	Coordinates:25"26'12.2359" N; 80'19'17.3150" W	Date End: 1/23/09
Elevation: 3.00' NAVD 88	Depth GW: 5.64 Date: 1/21/09	Sheet 1 of 2
Geologist/Engineer: D.Daigle	Depth GW: 5.31 Date: 1/26/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1		drill cuttings		Fill material (rock fragments, gravel, shell)				
2								
3								
4								
5		SPT	5-4-4-5					
6								
7		drill cuttings						
8	-5.0							
9				Peat-dark brown, plant material, sl. moist	PT			
10	-7.0							
11		SPT	7-16-19-18	Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell molds, small voids; wet; (calcarenite)				
12								
13								
14								
15								
16		SPT	5-7-14-10					
17								
18		drill cuttings						
19								
20								
21								
22								
23								
24				mud loss				
25								
26								
27								
28								
29								
30								
31		SPT	10-18-21-29					
32								
33	-29	SPT	16-15-32-17	Lt gray cemented sand and fine sand; cemented sand frags;				
34								
35		drill cuttings						
36								
37								
38								
39								
40								
41		drill cuttings						
42								
43				Lt gray limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure still noted;				
44	-41							
45								
46								
47								
48								
49								
50								

SOIL BORING LOG
HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/07/09
Boring Number: MW-1	Coordinates:25"26'12.2359" N; 80'19'17.3150" W	Date End: 1/23/09
Elevation: 3.00' NAVD 88	Depth GW: 6.27 Date: 1/21/09	Sheet 2 of 2
Geologist/Engineer: D.Daigle	Depth GW: 5.45 Date: 1/26/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
51								
52		drill cuttings						
53								
54								
55				Light gray sandy, fossiliferous limestone, fossil molds and shells; gastropods and pelcypods present; some yellow-brown calcite-replaced coral fragments;				
56		drill cuttings						
57								
58								
59								
60								
61		drill cuttings		light gray to white sandy limestone, some fossil shells,trace burrows;				
62								
63								
64								
65								
66		drill cuttings		more vugs and burows noted				based on video log
67								
68								
69								
70								
71		drill cuttings						
72								
73								
74								
75								
76								
77				Total Depth 75 feet				
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96								
97								
98								
99								
100								

SOIL BORING LOG

HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/7/09
Boring Number: MW-2	Coordinates:25" 26'16.9299 N; 80"19' 07.6459 W	Date End: 1/28/09
Elevation: 4.41' NAVD 88	Depth GW: 9.36 Date: 2/10/09	Sheet 1 of 1
Geologist/Engineer: D.Daigle	Depth GW: 9.61 Date: 2/20/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1-4		drill cuttings		Fill material (rock fragments, gravel, shell)				
9	-4.6							
10-11		SPT	4-5-5-8	Peat-dark brown, plant material, sl. moist	PT			
12-17		drill cuttings / SPT	55-35-50/5	Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell casts, small voids; wet; (calcarenite); thin dolomite stringer at about 17;'				
18-26		drill cuttings		mud loss at 26' bls				
27-28		SPT	8-4-4-13					
29-35	-30.6	drill cuttings						
35-40		drill cuttings		Lt gray calcareous cemented sand and fine sand; cemented sand frags; few shell frags; wet				
41-44	-39.9	drill cuttings						
45-52				Lt gray sandy limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure noted; Total Depth 47'				

SOIL BORING LOG

HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:1/8/09
Boring Number: MW-3	Coordinates:25" 26'10.2903 N; 80"19' 36.8590 W	Date End: 2/3/09
Elevation: 2.87' NAVD 88	Depth GW: 7.67 Date: 2/11/09	Sheet 1 of 1
Geologist/Engineer: D.Daigle	Depth GW: 8.27 Date: 2/20/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1–8		drill cuttings		Fill material (rock fragments, gravel, shell)				
9				Peat-dark brown, plant material, sl. moist	PT			
10		SPT						
11–15		drill cuttings		Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell casts, small voids; wet; (calcarenite); thin dolomite stringer at about 15;'				
16–17		SPT						
18–22		drill cuttings		mud loss 27'				
23–24		SPT						
25–34		drill cuttings						
35–36				Lt gray calcareous cemented sand and fine sand; cemented sand frags; few shell frags; wet				
37–44		drill cuttings		Lt gray sandy limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure noted;				
45				Total Depth 44'				
46–52								

SOIL BORING LOG

HDR Engineering, Inc.

Project Number:101650	Project Name: Forida Power and Light	Date Start:2/2/09
Boring Number: MW-4	Coordinates:25" 26'03.0608 N; 80"19' 36.4789 W	Date End: 1/28/09
Elevation: 4.43' NAVD 88	Depth GW: 8.20 Date: 4/1/09	Sheet 1 of 1
Geologist/Engineer: D.Daigle	Depth GW: 8.14 Date: 4/10/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1-6		drill cuttings		Fill material (rock fragments, gravel, shell)				
7	-4.6							
8-9				Peat-dark brown, plant material, sl. moist				
10		SPT	7-12-14-14		PT			
11	-7.1							
12		drill cuttings		Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell casts, small voids; wet; (calcarenite); thin dolomite stringer at about 17;'				
13-15								
16		SPT	17-14-8-8					
17-19								
20		drill cuttings		mud loss 20'				
21-22								
23		SPT	8-4-4-13					
24-28								
29		drill cuttings						
30-33								
34	-29.6	drill cuttings						
35-37				Lt gray calcareous cemented sand and fine sand; cemented sand frags; few shell frags; wet				
38		drill cuttings						
39-42								
43	-38.6	drill cuttings						
44-46				Lt gray sandy limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure noted;				
47-49				Total Depth 47'				
50-52								

SOIL BORING LOG

HDR Engineering, Inc.

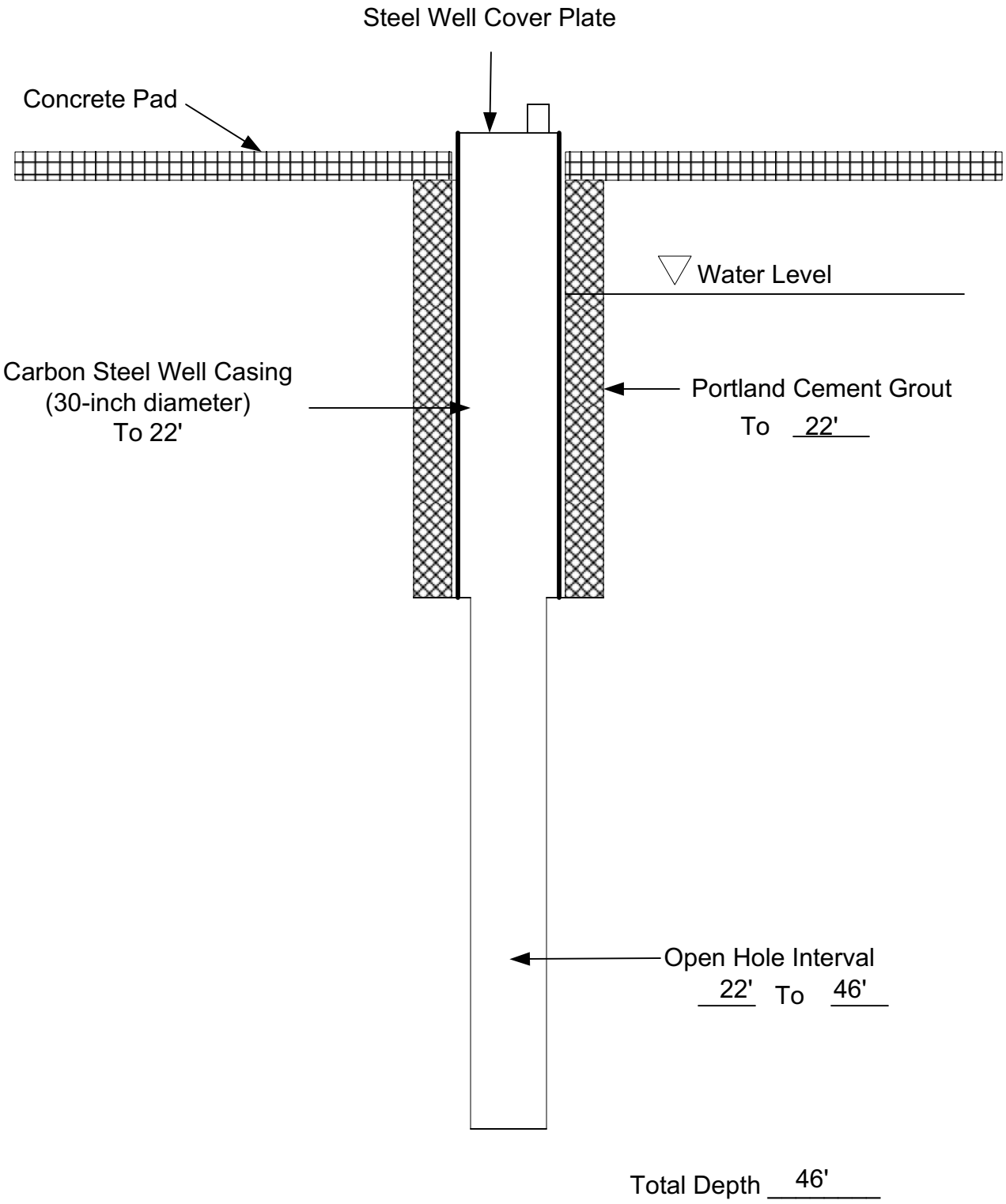
Project Number:101650	Project Name: Forida Power and Light	Date Start:1/8/09
Boring Number: MW-5	Coordinates:25" 26'22.7708 N; 80"19' 43.9645 W	Date End: 2/4/09
Elevation: 2.86' NAVD 88	Depth GW: 5.03 Date: 2/11/09	Sheet 1 of 1
Geologist/Engineer: D.Daigle	Depth GW: 6.42 Date: 2/20/09	
Drilling Method: Reverse Air		

Depth (FT)	Elevation (FT NAVD 88)	Sample Type	Blows/6 inch	DESCRIPTION	USCS	Visual Log		Remarks
1				Fill material (rock fragments, gravel, shell)				
2								
3								
4		SPT		Peat-dark brown, plant material, sl. moist	PT			
5								
6		drill cuttings						
7								
8								
9		SPT						
10								
11		drill cuttings						
12								
13								
14		SPT		Lt gray limestone, friable, sdy, few mollusk shells; some fossil shell casts, small voids; wet; (calcarenite); thin dolomite stringer at about 13;'				
15								
16		drill cuttings						
17								
18								
19		SPT						
20				mud loss 26'				
21								
22								
23		SPT						
24								
25								
26								
27		SPT						
28								
29								
30								
31		drill cuttings						
32								
33								
34								
35								
36		drill cuttings		Lt gray sandy limestone and tan-yellow coral fragments; yellow-brown calcite replaced coral, coral structure noted;				
37								
38								
39								
40				Total Depth 40'				
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								

APPENDIX B
WELL COMPLETION DIAGRAMS

Well ID PW-1

Steel Plate El=4.58' NAVD 88



FPL Turkey Point APT
Test Production Well Detail

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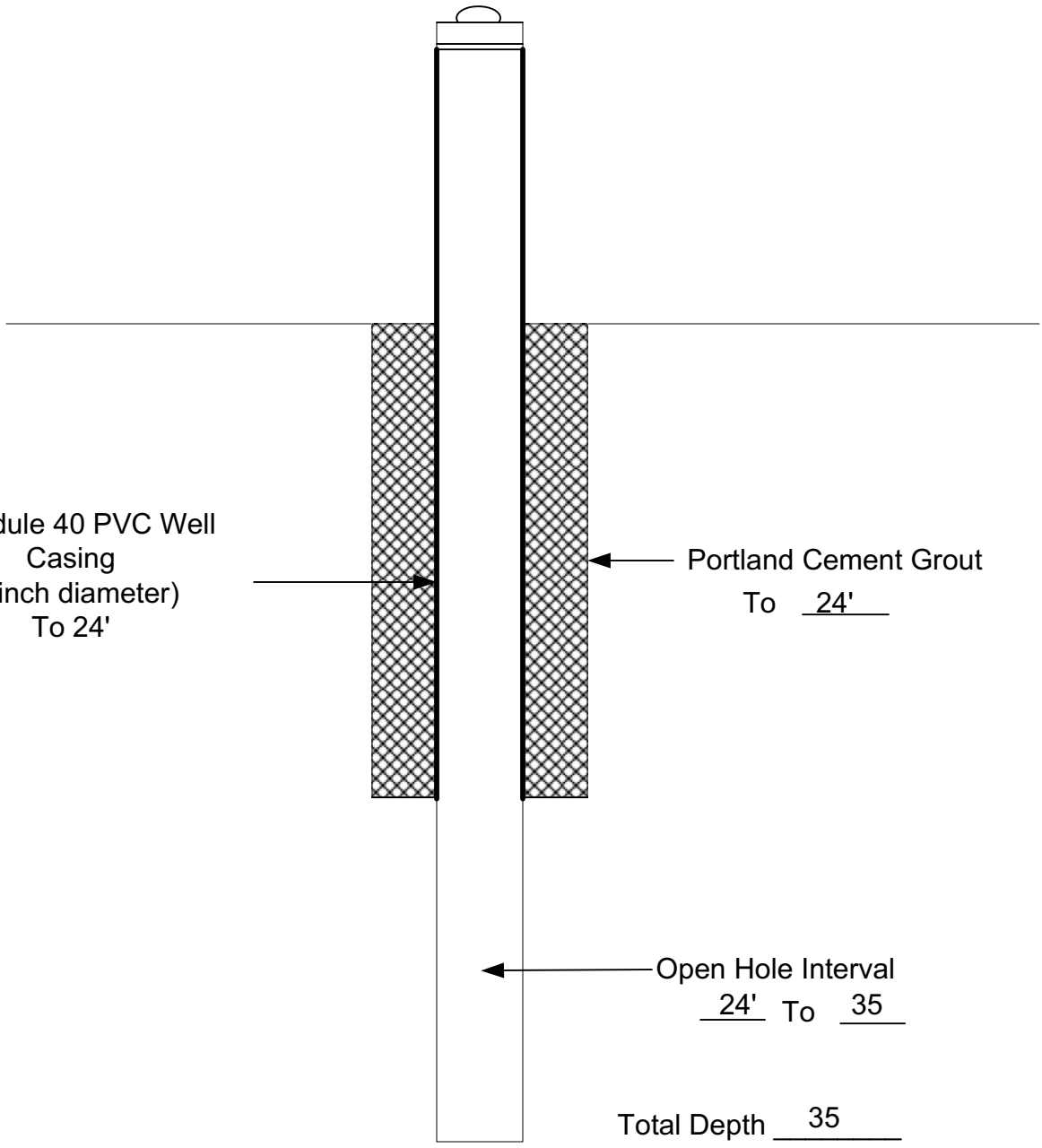
Well ID MW-1-IS

TOC Elevation: 5.99



FPL Turkey Point APT
Monitoring Well Detail

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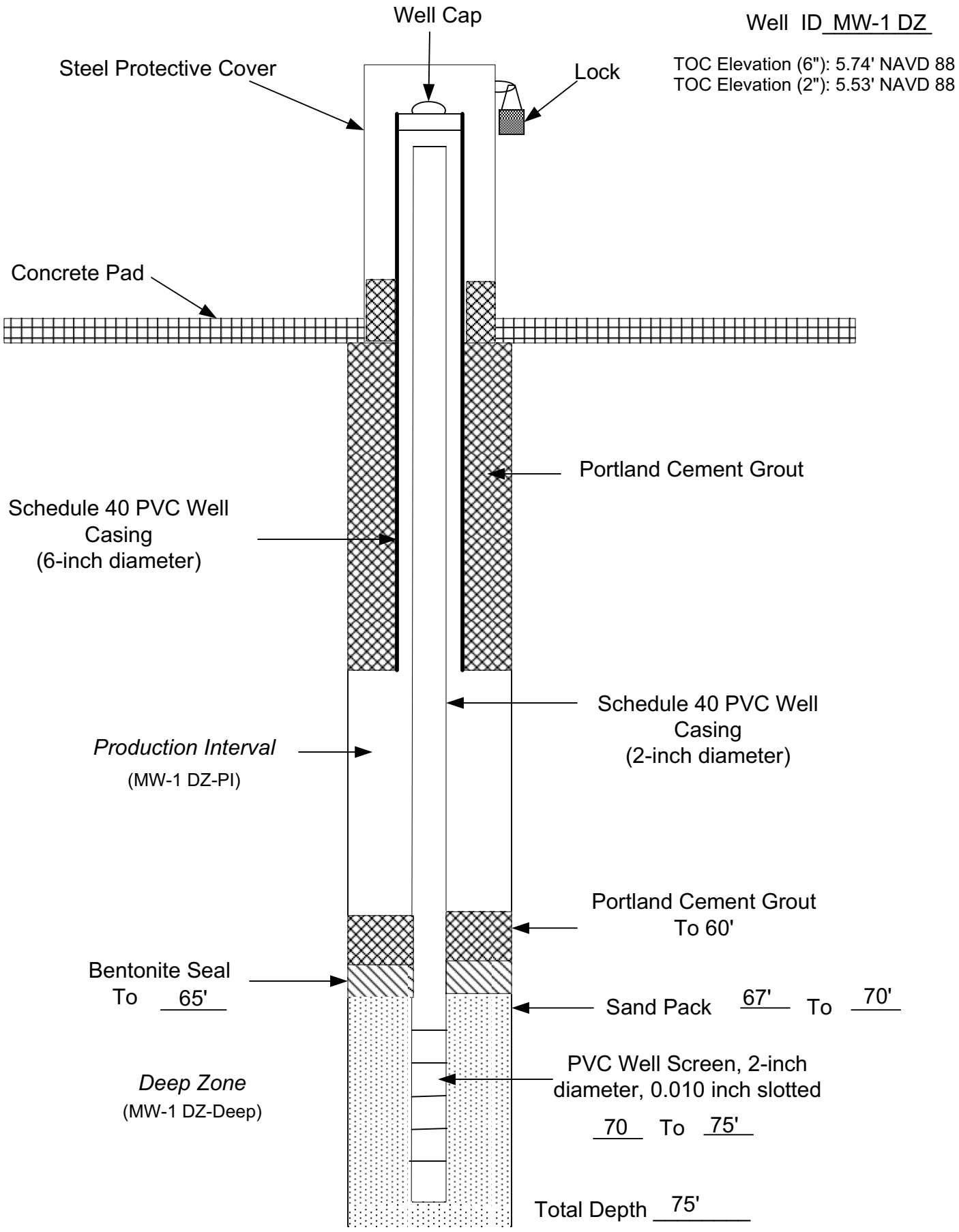

Florida Power and Light
Turkey Point APT
Dual Zone Monitoring Well Detail

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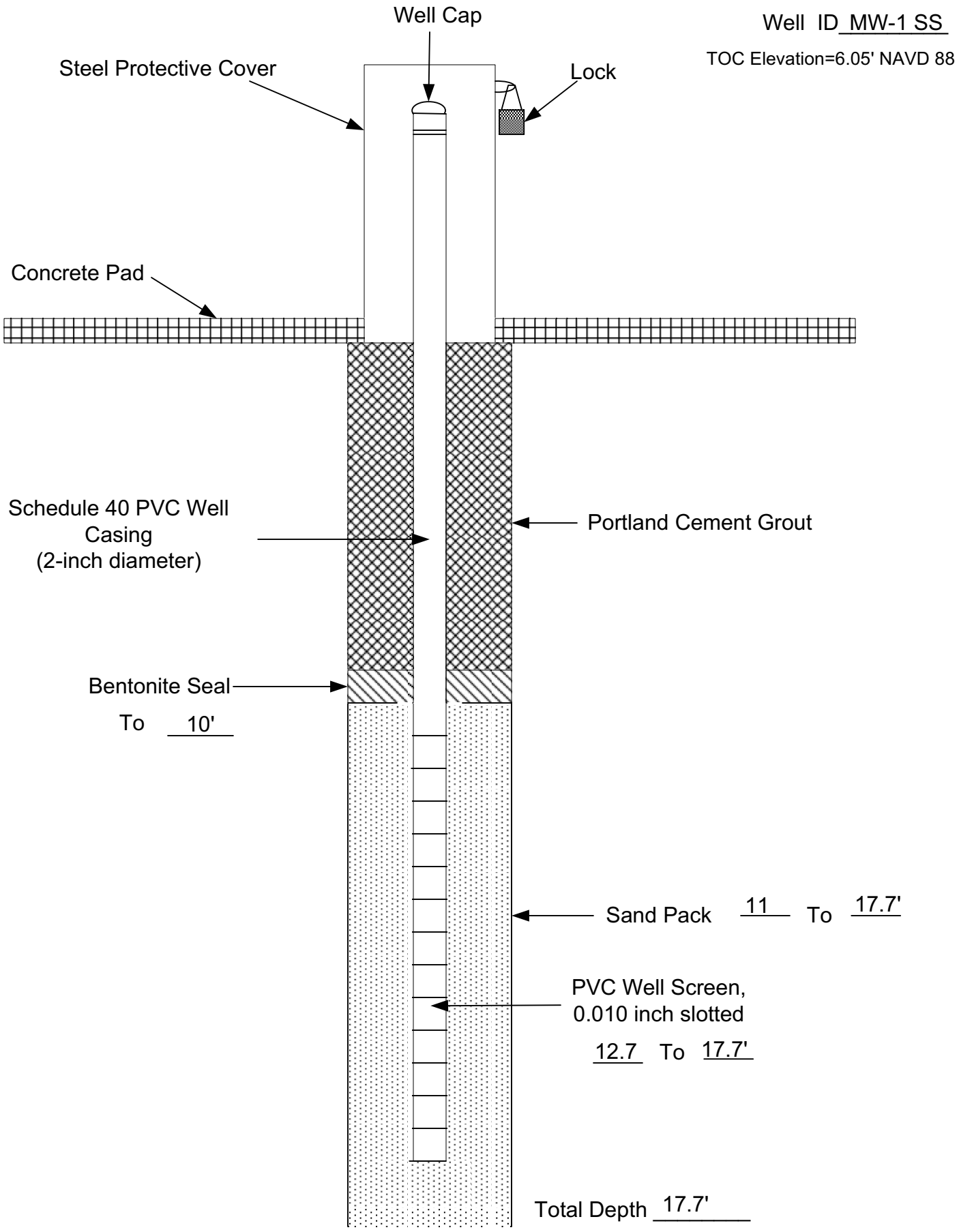

Florida Power and Light
Turkey Point APT
Monitoring Well Detail

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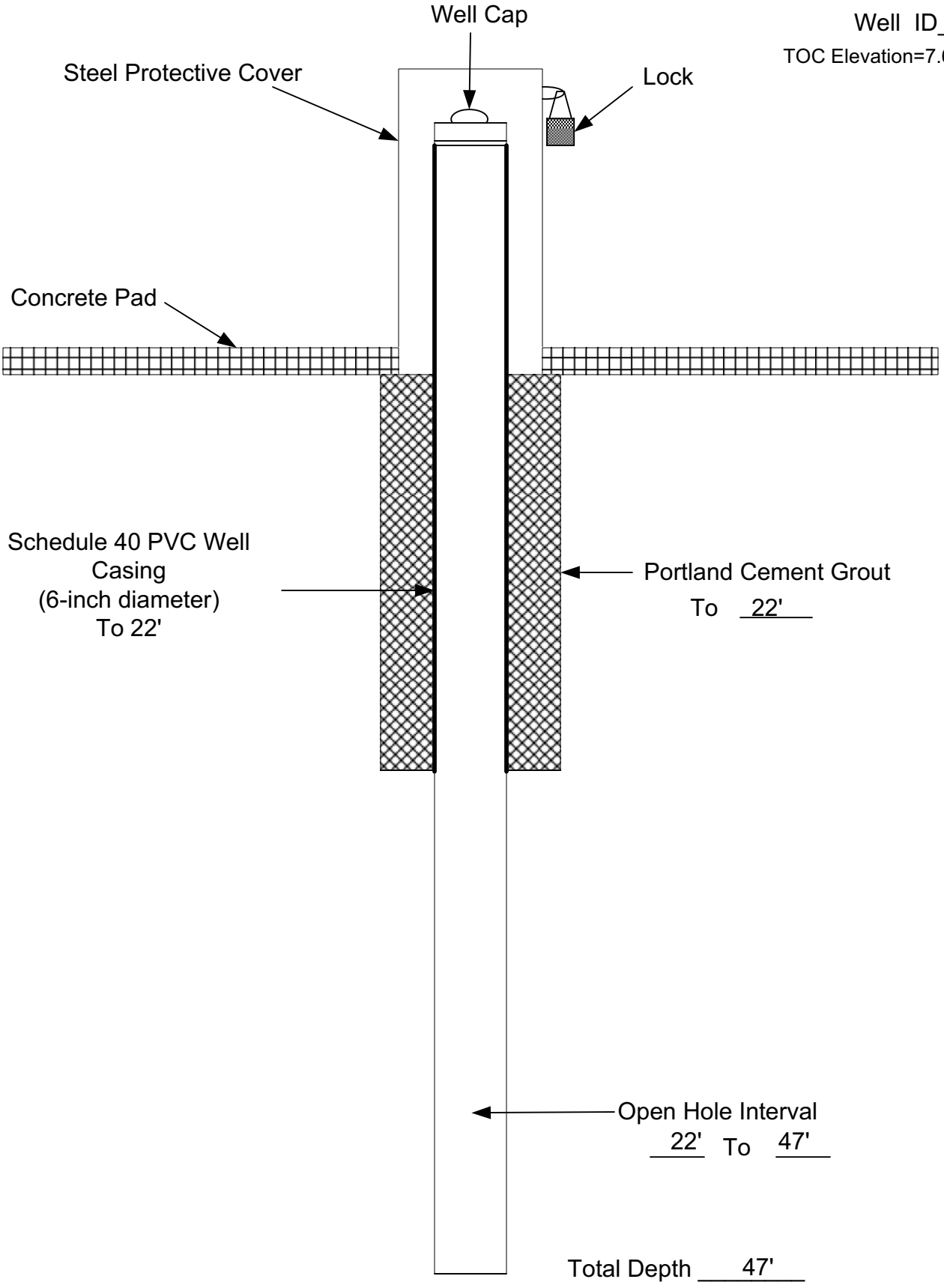
Well ID MW-2

TOC Elevation=7.61' NAVD 88



FPL Turkey Point APT
Monitoring Well Detail

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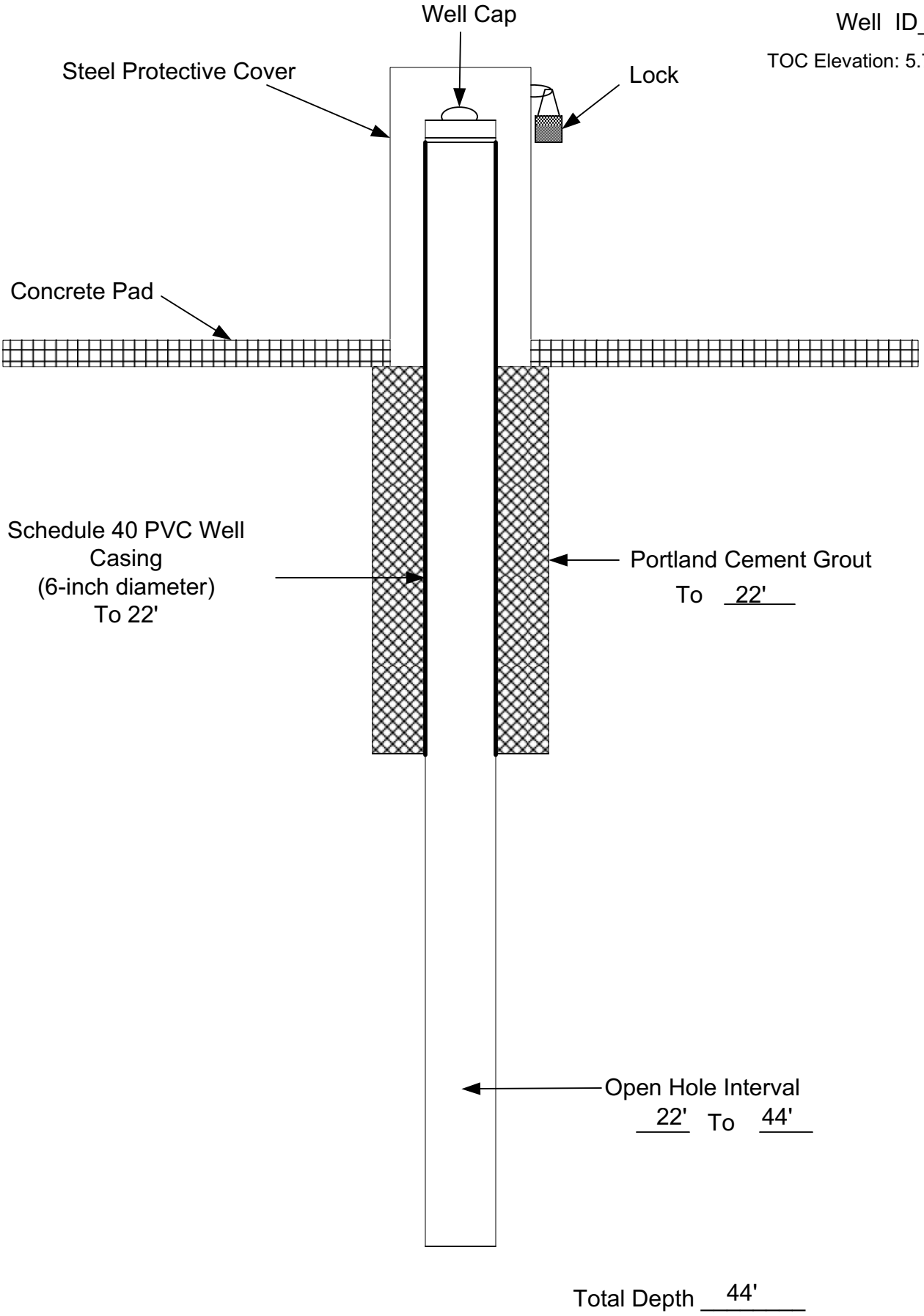
Well ID MW-3

TOC Elevation: 5.78' NAVD 88



FPL Turkey Point APT
Monitoring Well Detail

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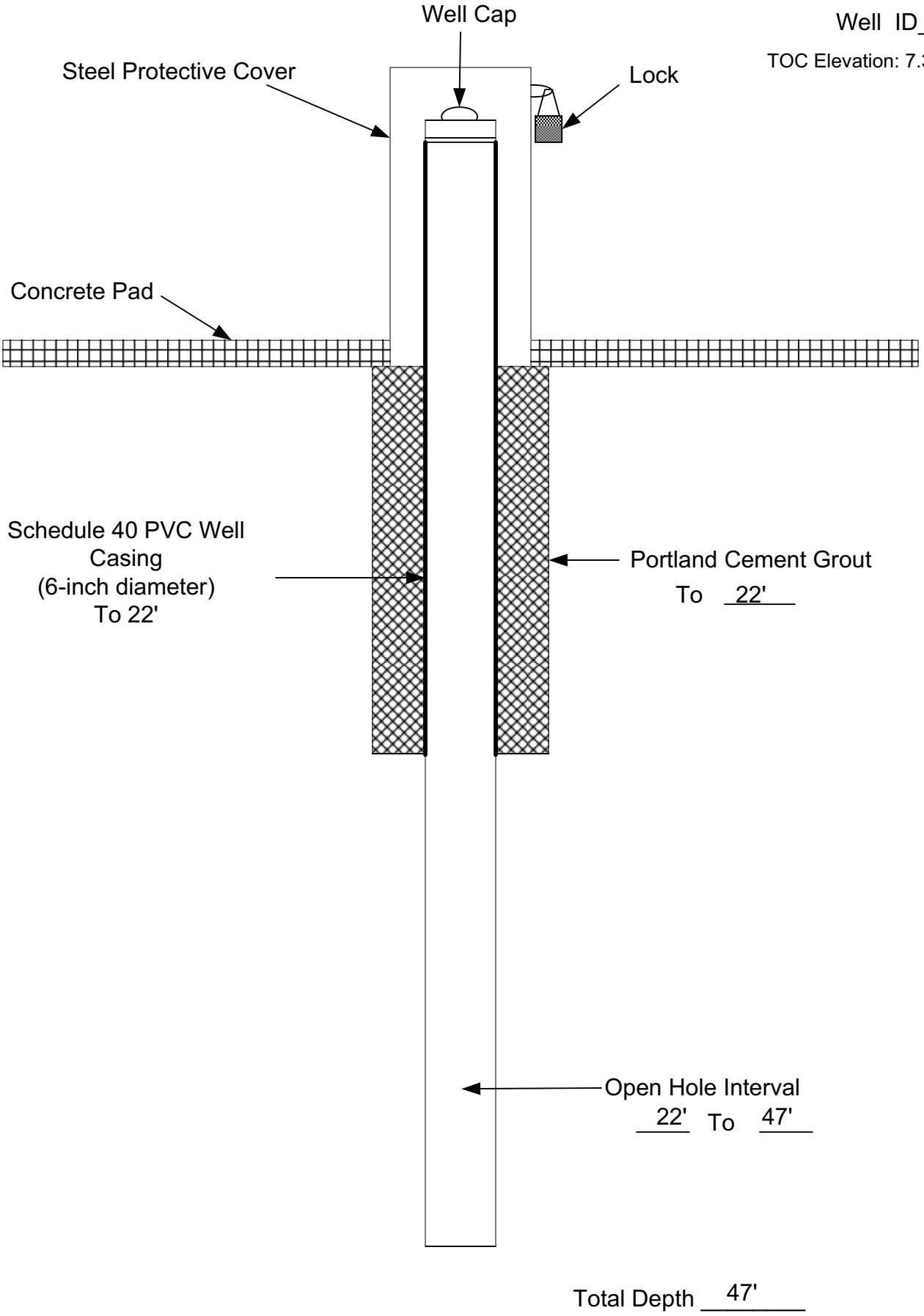
Well ID MW-4

TOC Elevation: 7.32' NAVD 88

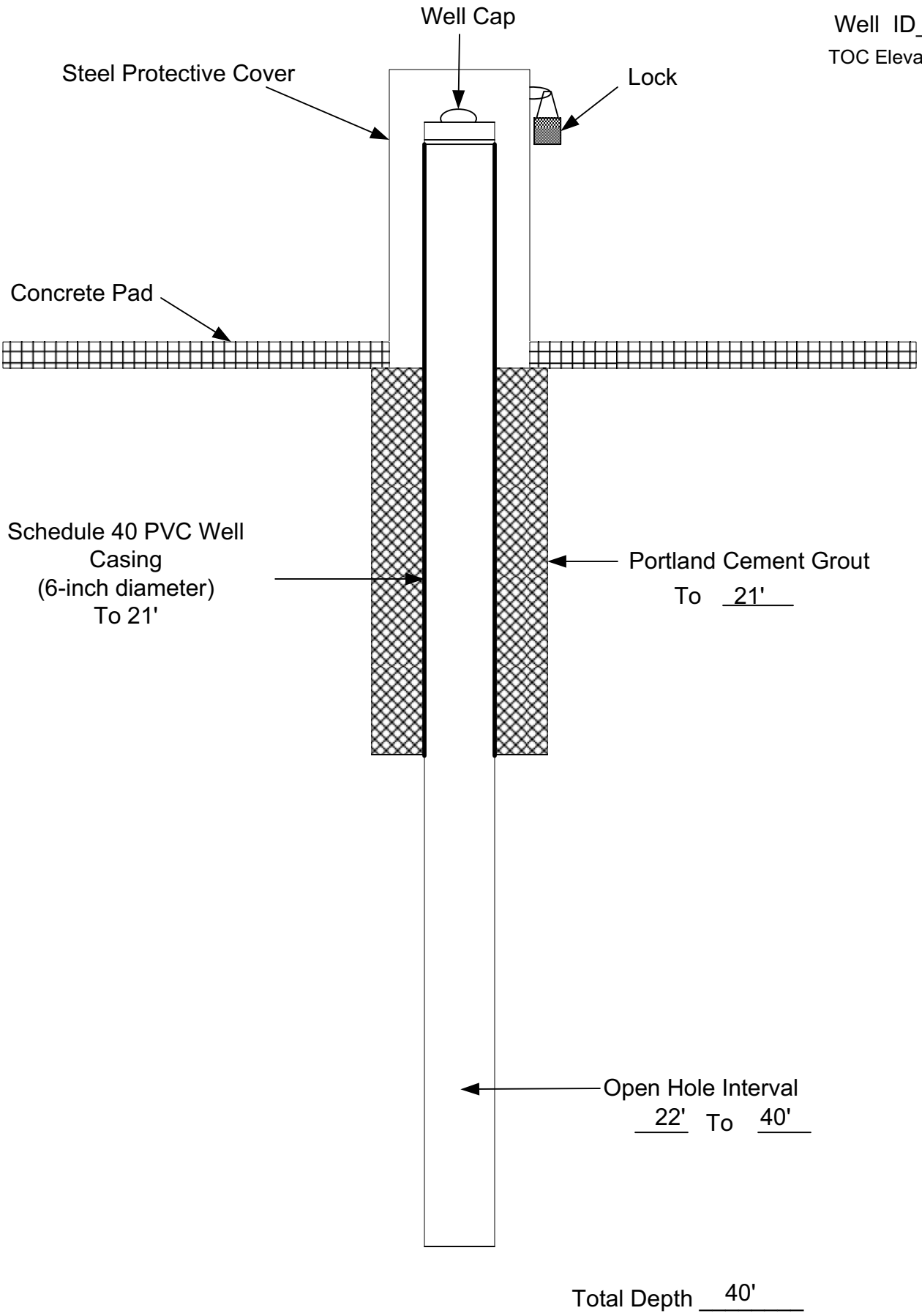


FPL Turkey Point APT
Monitoring Well Detail

HDR | ONE COMPANY *Many Solutions*®

Well ID MW-5

TOC Elevation: 3.74



FPL Turkey Point APT
Monitoring Well Detail

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