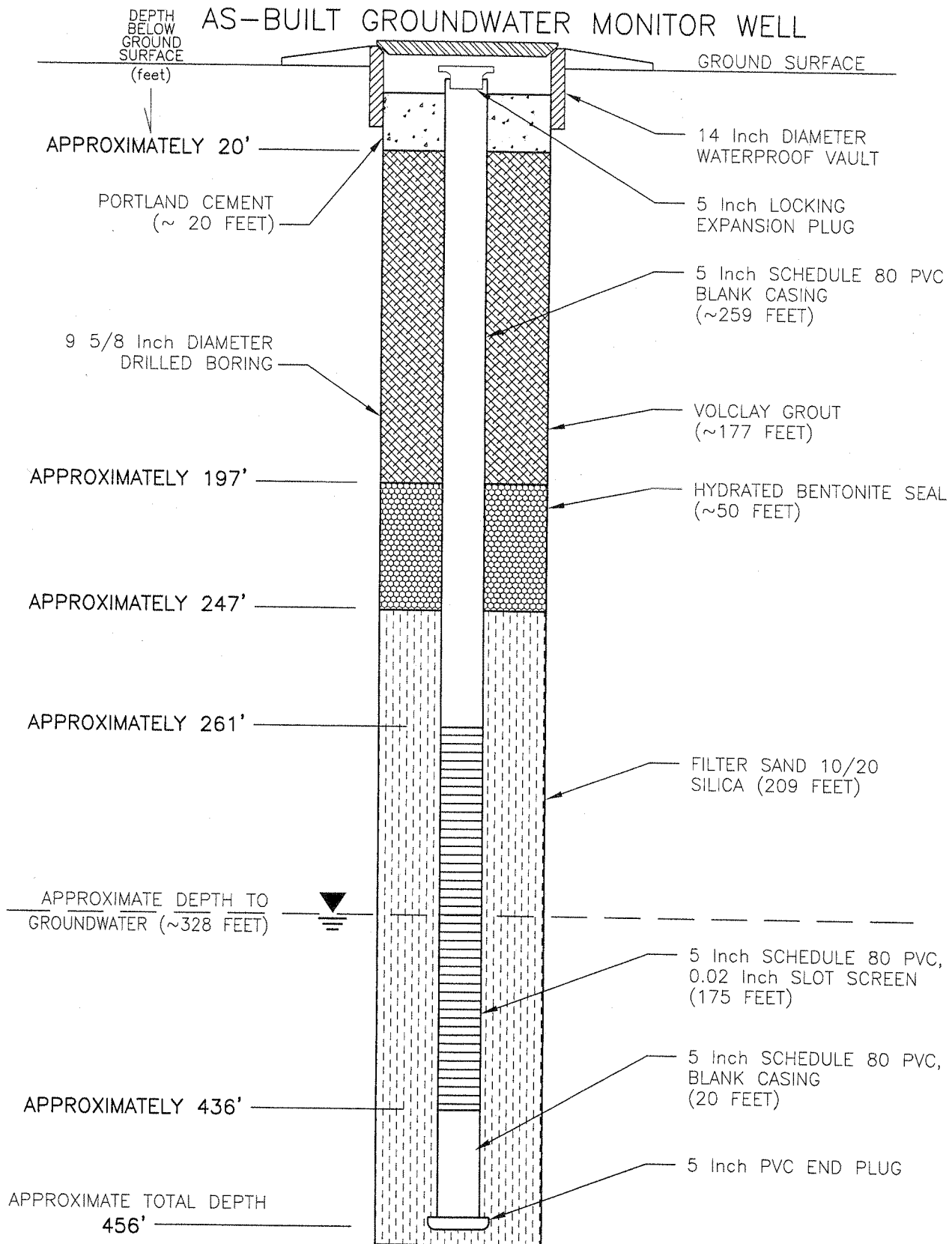


APPENDIX E
BP-SERIES WELL CONSTRUCTION DIAGRAMS
REMEDIAL INVESTIGATION REPORT
GROUNDWATER OPERABLE UNIT
Arizona Department of Environmental Quality
Broadway-Pantano Water Quality Assurance Revolving Fund Site
June 1, 2012



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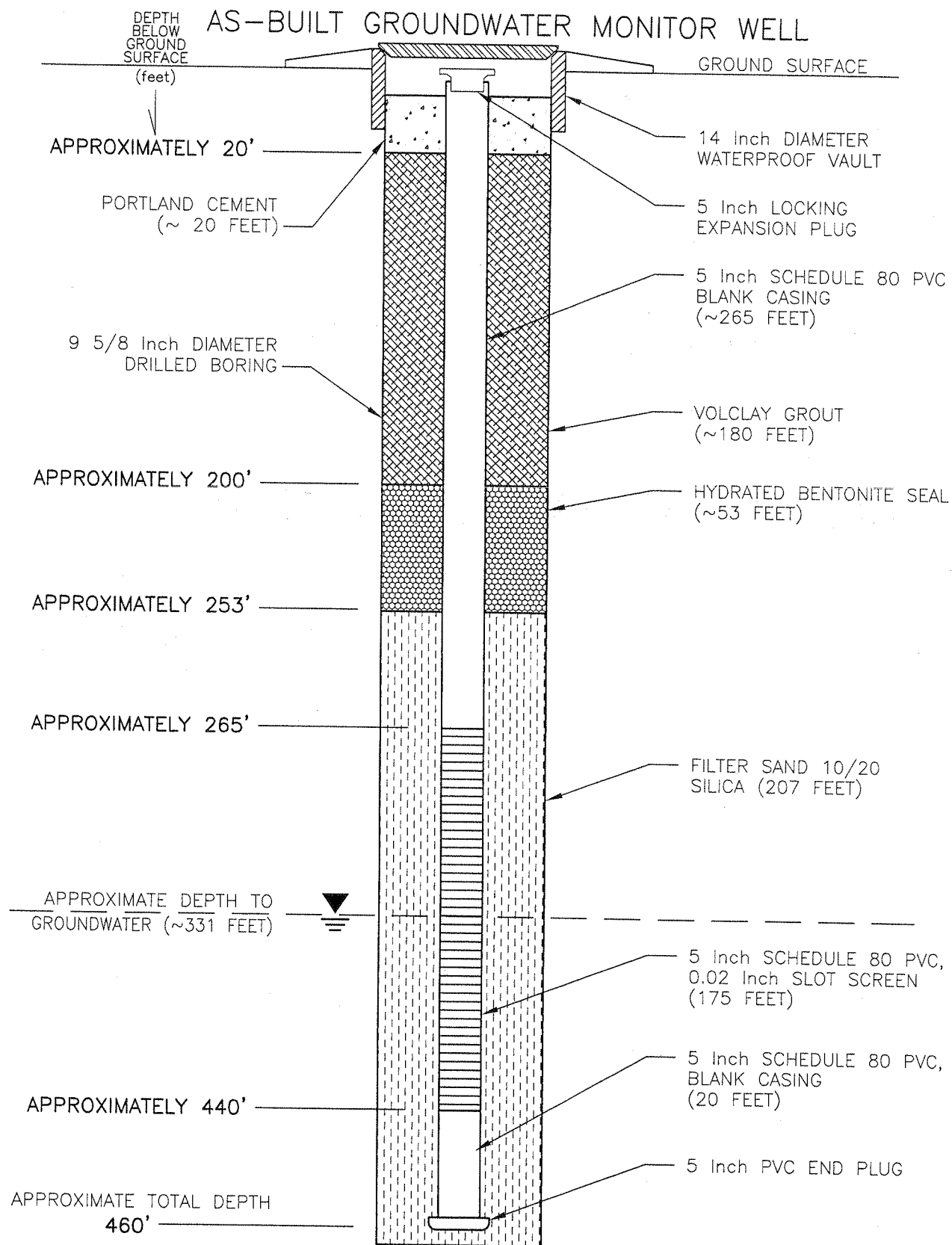
WELL CONSTRUCTION DIAGRAM
(BP-1)

BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-1**

DATE: 01/17/02

PROJECT NO:
018.20401.021



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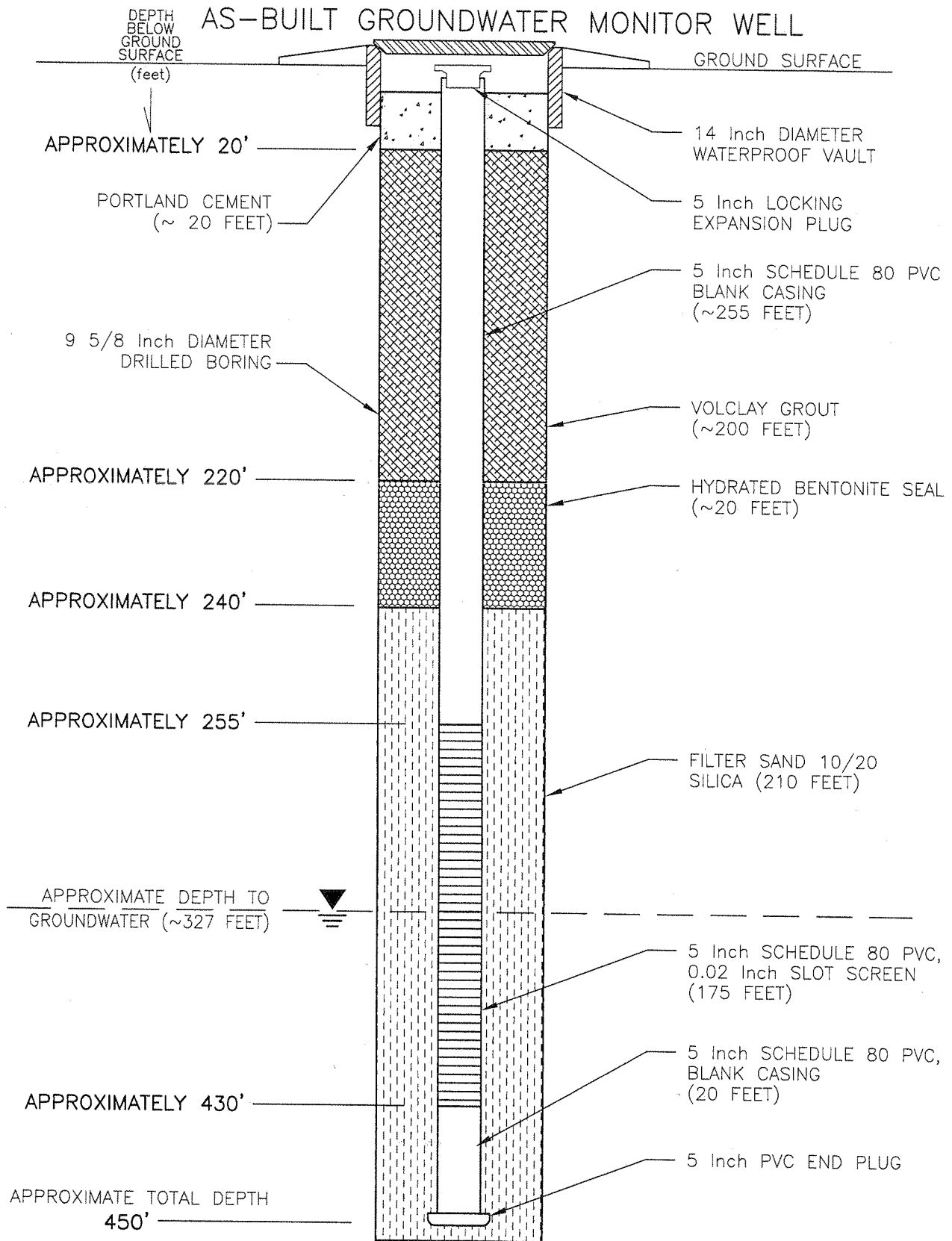
WELL CONSTRUCTION DIAGRAM
(BP-2)

BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-2**

DATE: 01/08/02

PROJECT NO:
018.20401.021

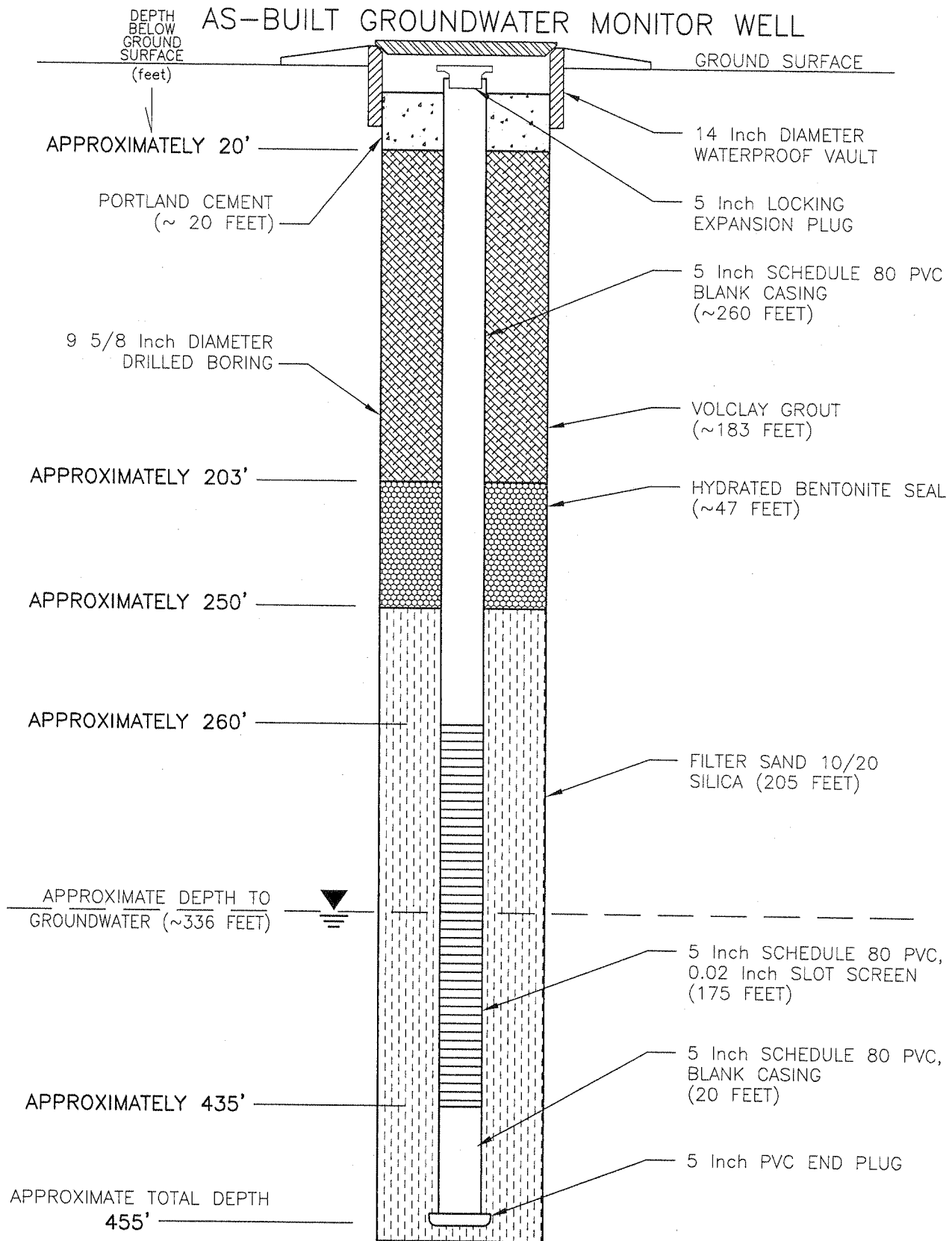


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WELL CONSTRUCTION DIAGRAM
(BP-3)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-3**
DATE: 07/09/02
PROJECT NO:
180T.20401.00.0021

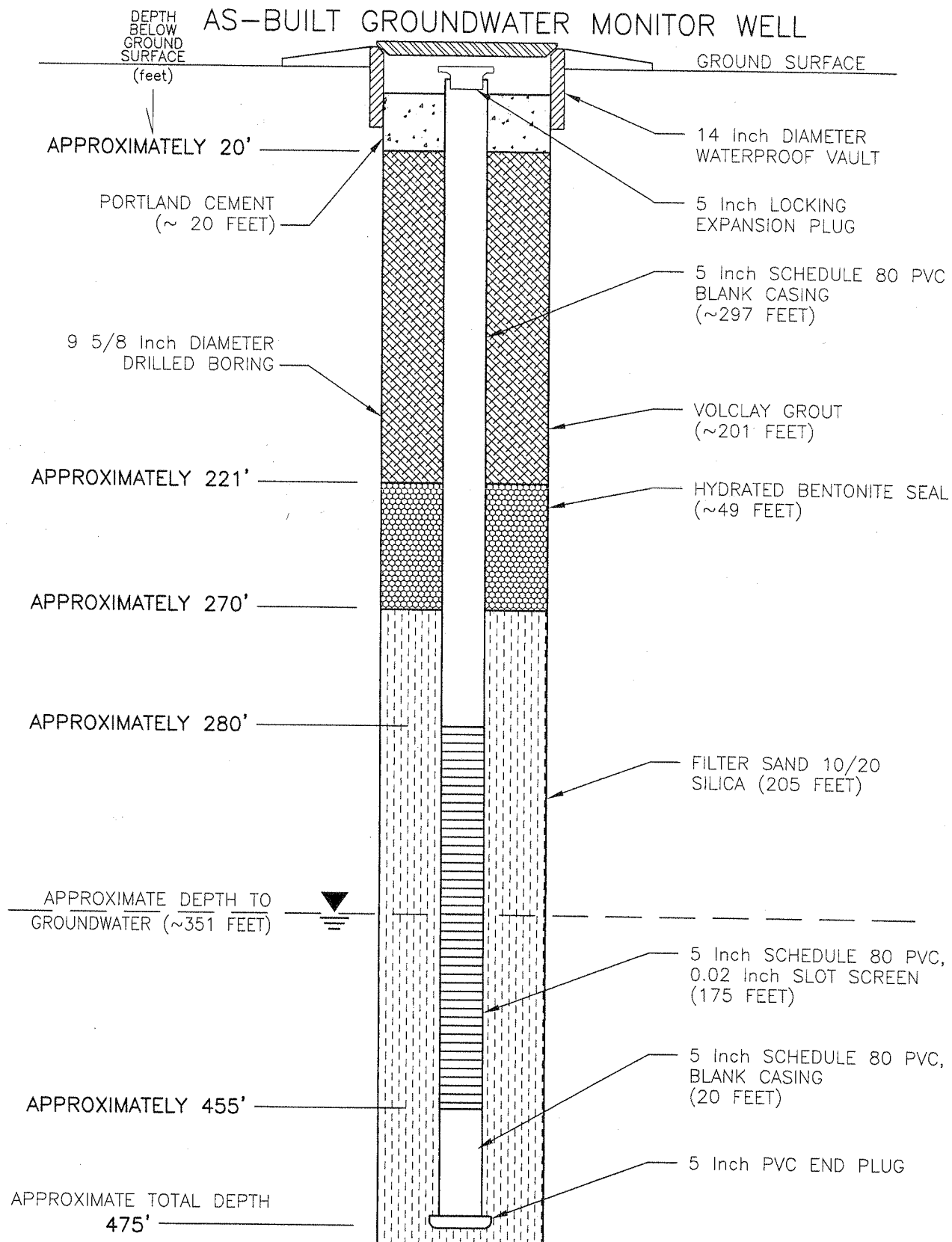


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WELL CONSTRUCTION DIAGRAM
(BP-4)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-4**
DATE: 02/08/02
PROJECT NO:
018.20401.021

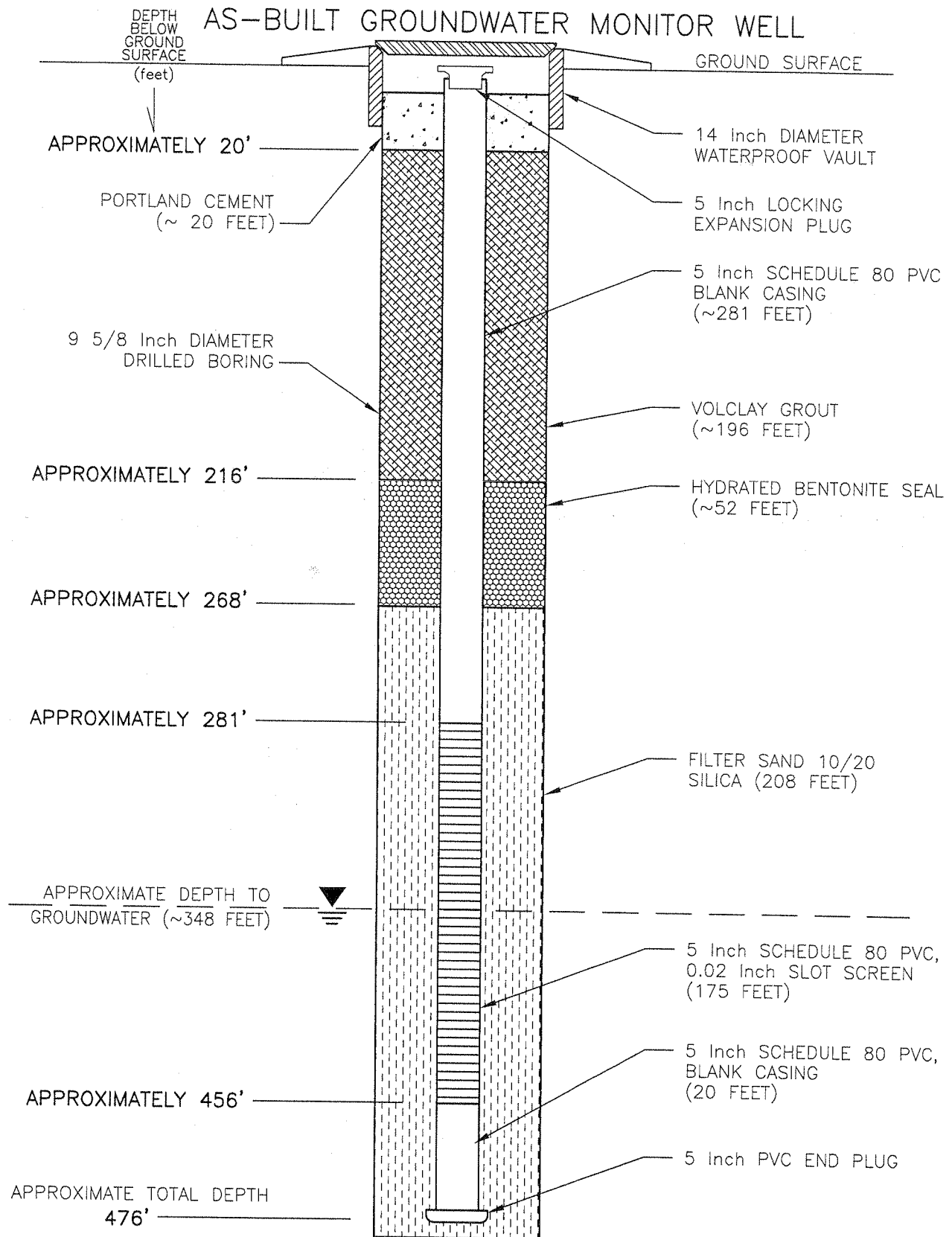


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WELL CONSTRUCTION DIAGRAM
(BP-5)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-5**
DATE: 01/17/02
PROJECT NO:
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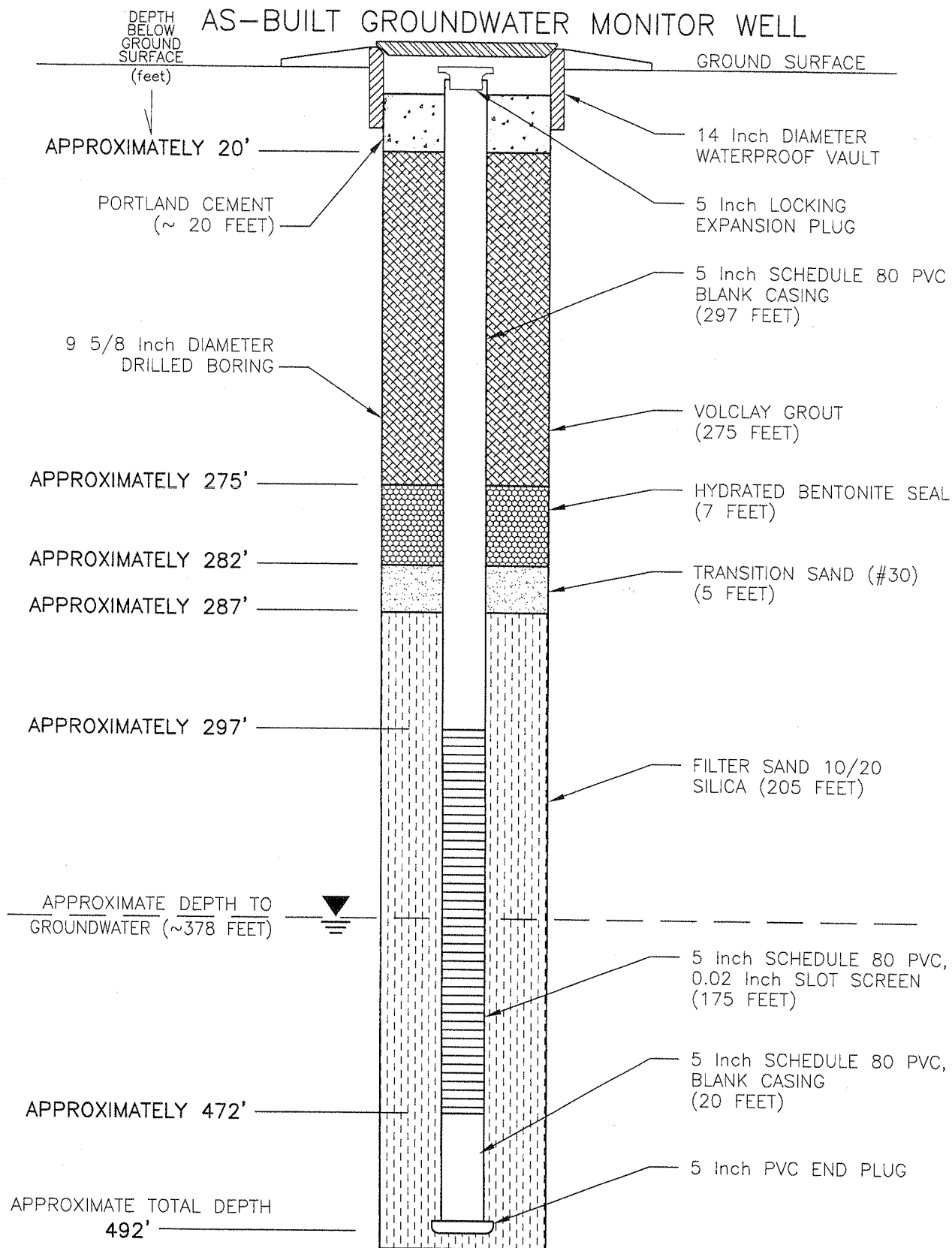
WELL CONSTRUCTION DIAGRAM
(BP-7)

BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-6**

DATE: 01/08/02

PROJECT NO:
018.20401.021

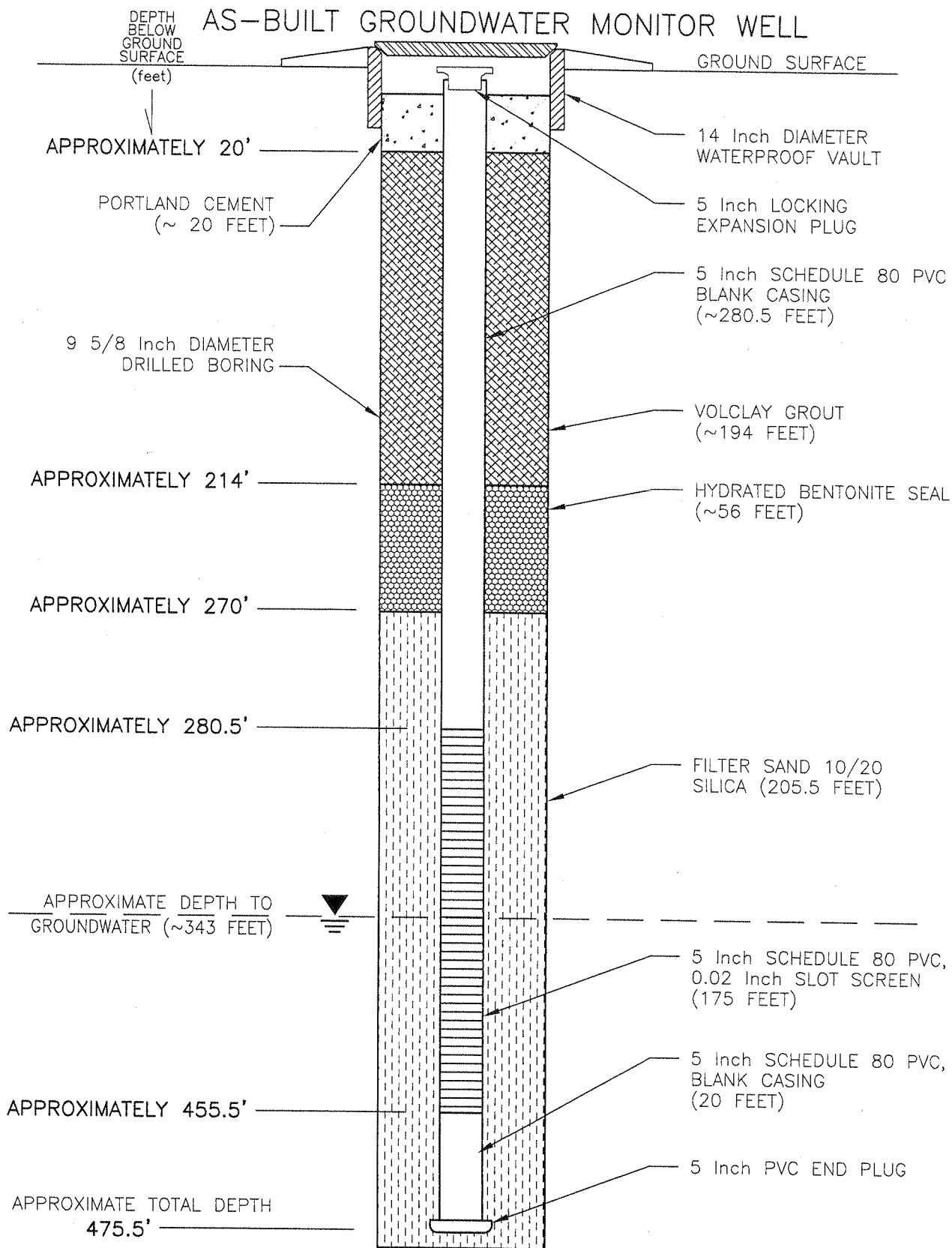


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WELL CONSTRUCTION DIAGRAM
K-MART WELL (BP-8)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-7**
DATE: 01/08/02
PROJECT NO:
018.20401.021

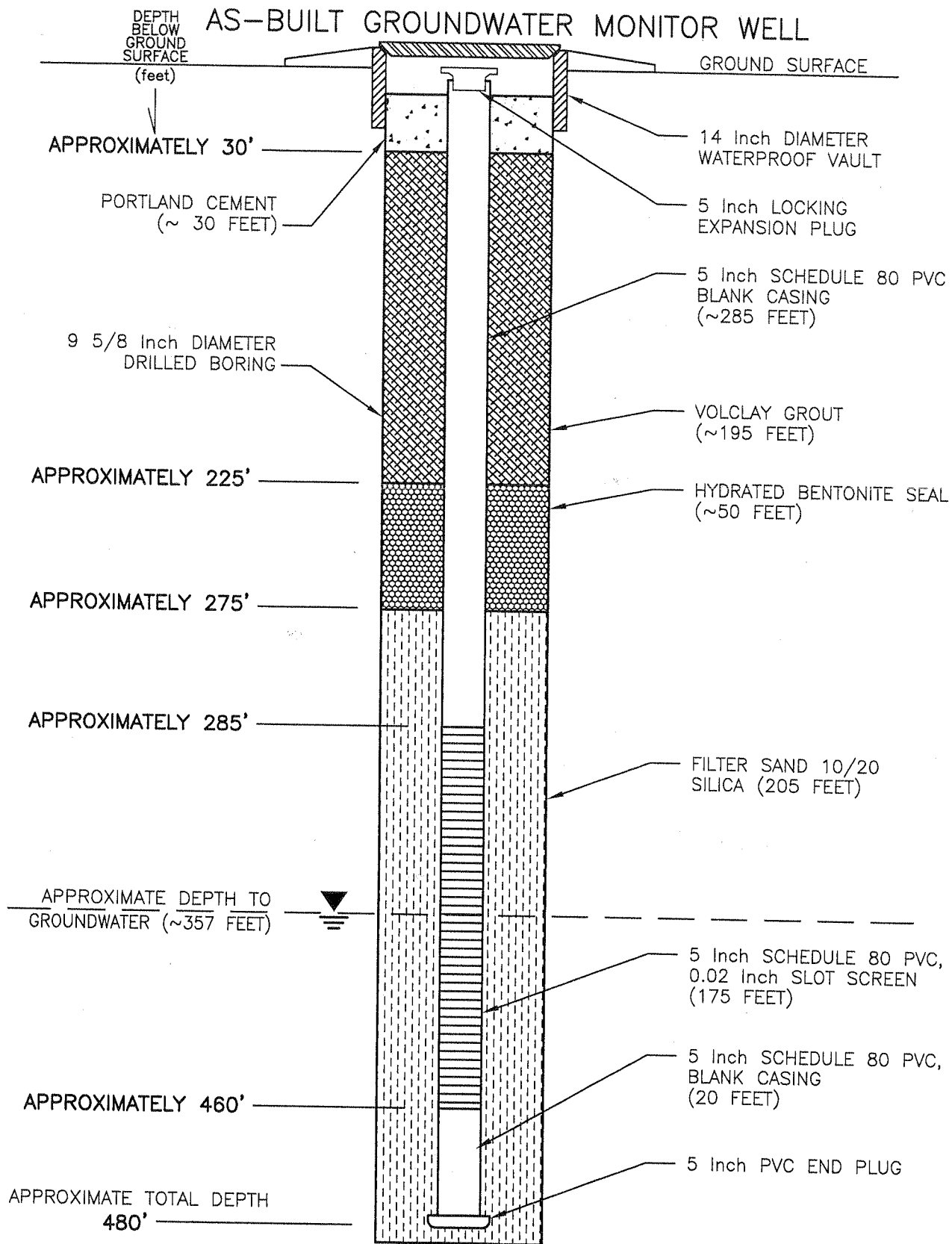


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WELL CONSTRUCTION DIAGRAM
(BP-9)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-8**
DATE: 01/08/02
PROJECT NO:
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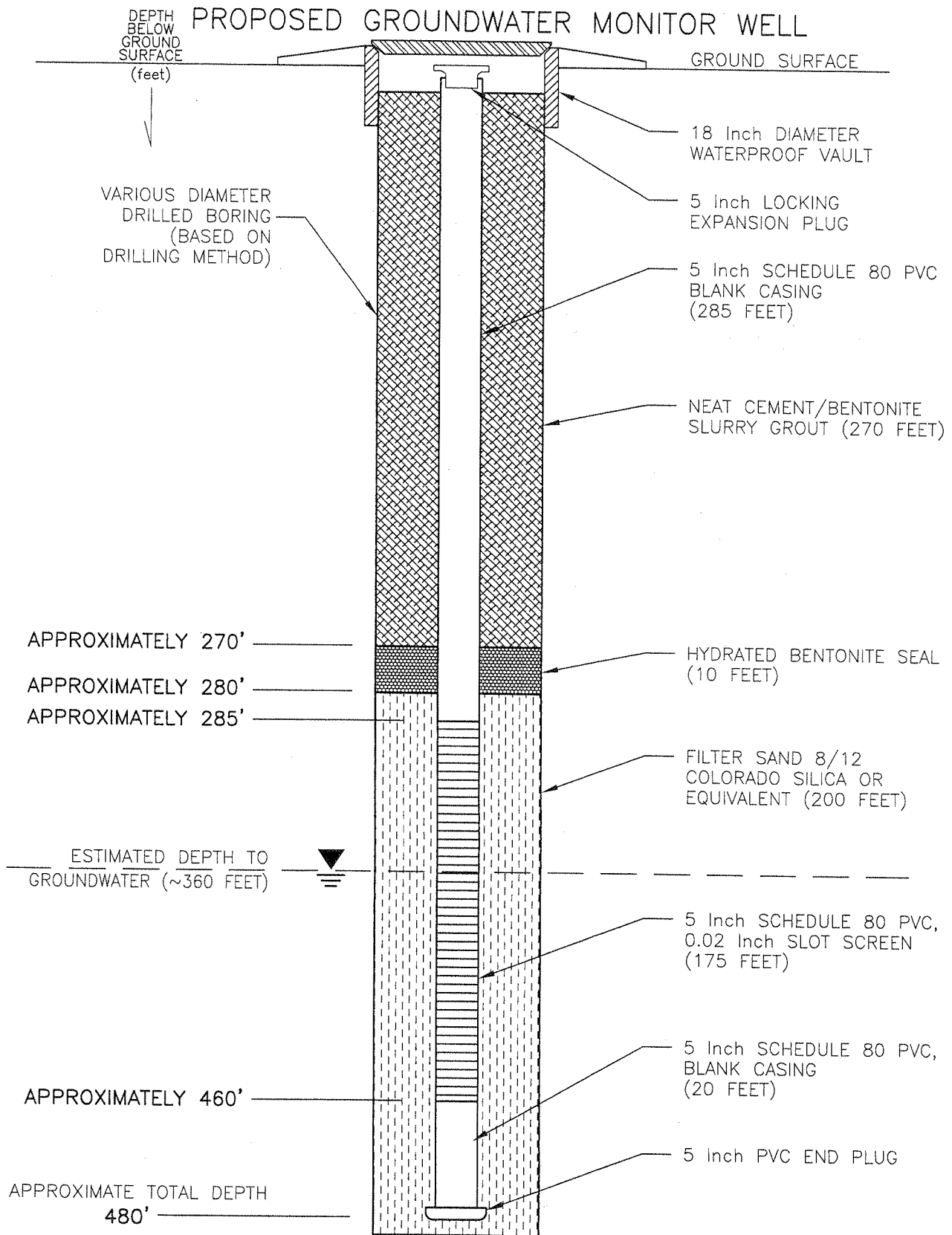
WELL CONSTRUCTION DIAGRAM
(BP-10)

BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-9**

DATE: 01/08/02

PROJECT NO:
018.20401.021

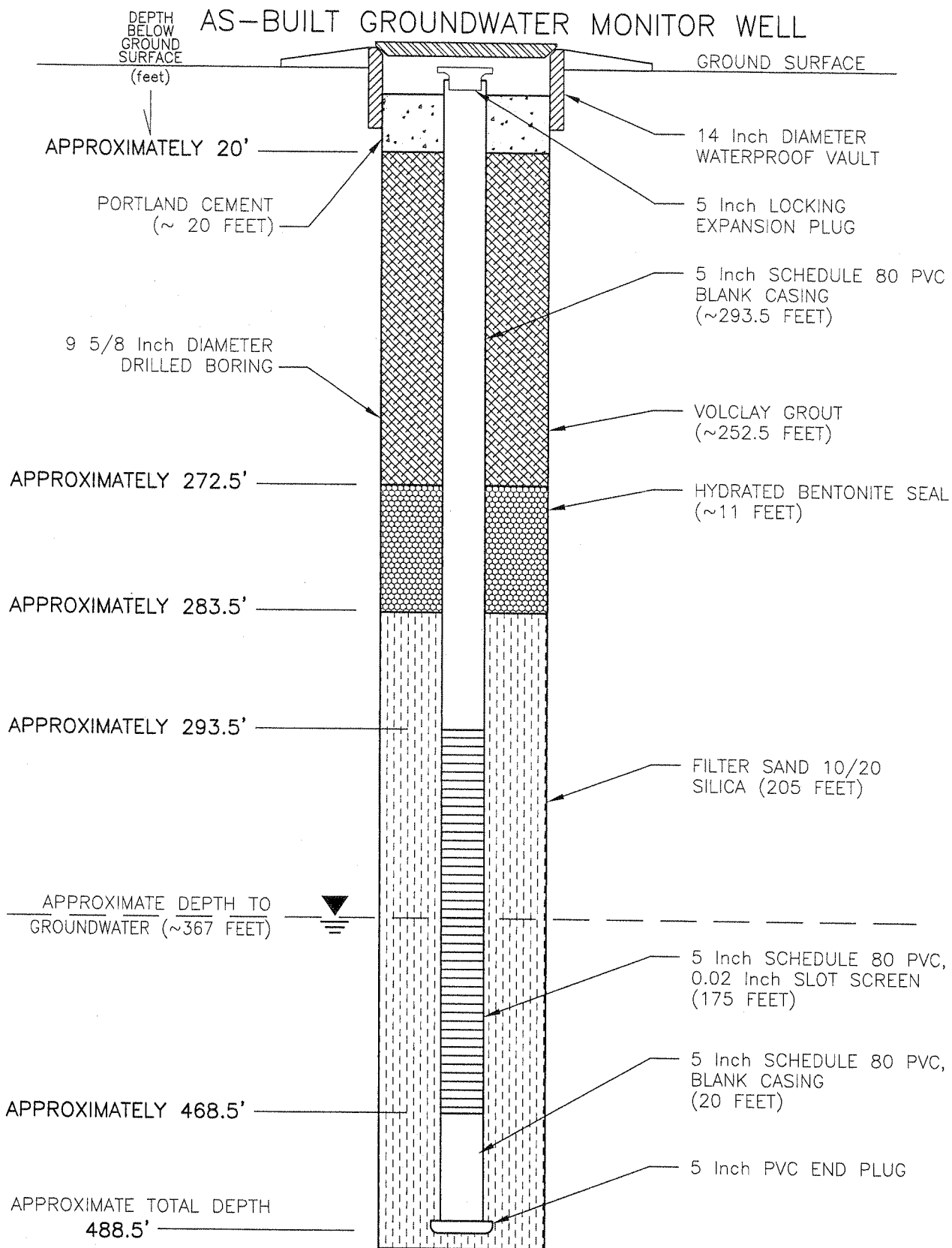


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WELL CONSTRUCTION DIAGRAM
BROADWAY SOUTH LANDFILL (BP-11)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-10**
DATE: 07/27/01
PROJECT NO:
018.20401.015



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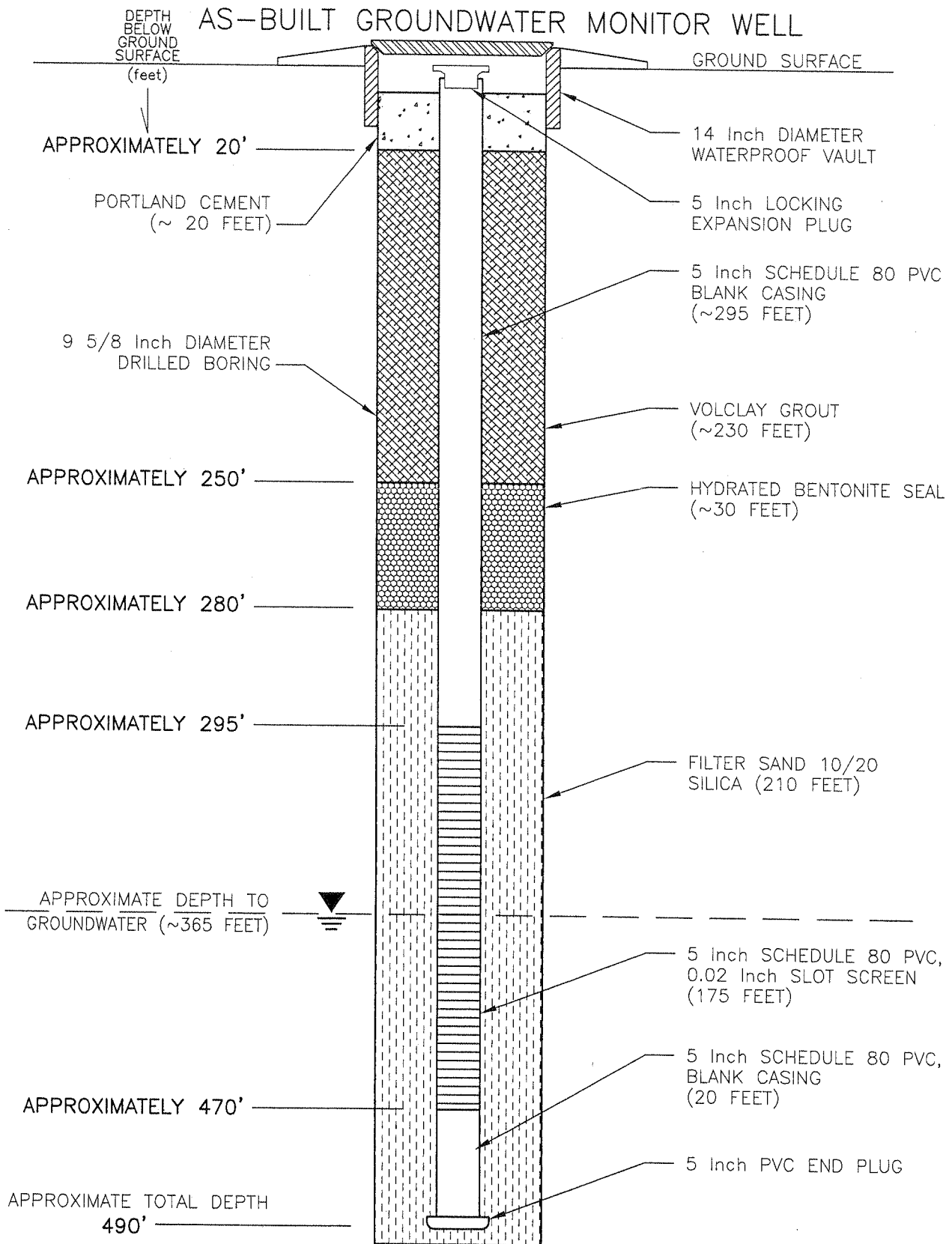
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WELL CONSTRUCTION DIAGRAM
(BP-15)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-11**

DATE: 01/08/02

PROJECT NO:
018.20401.021



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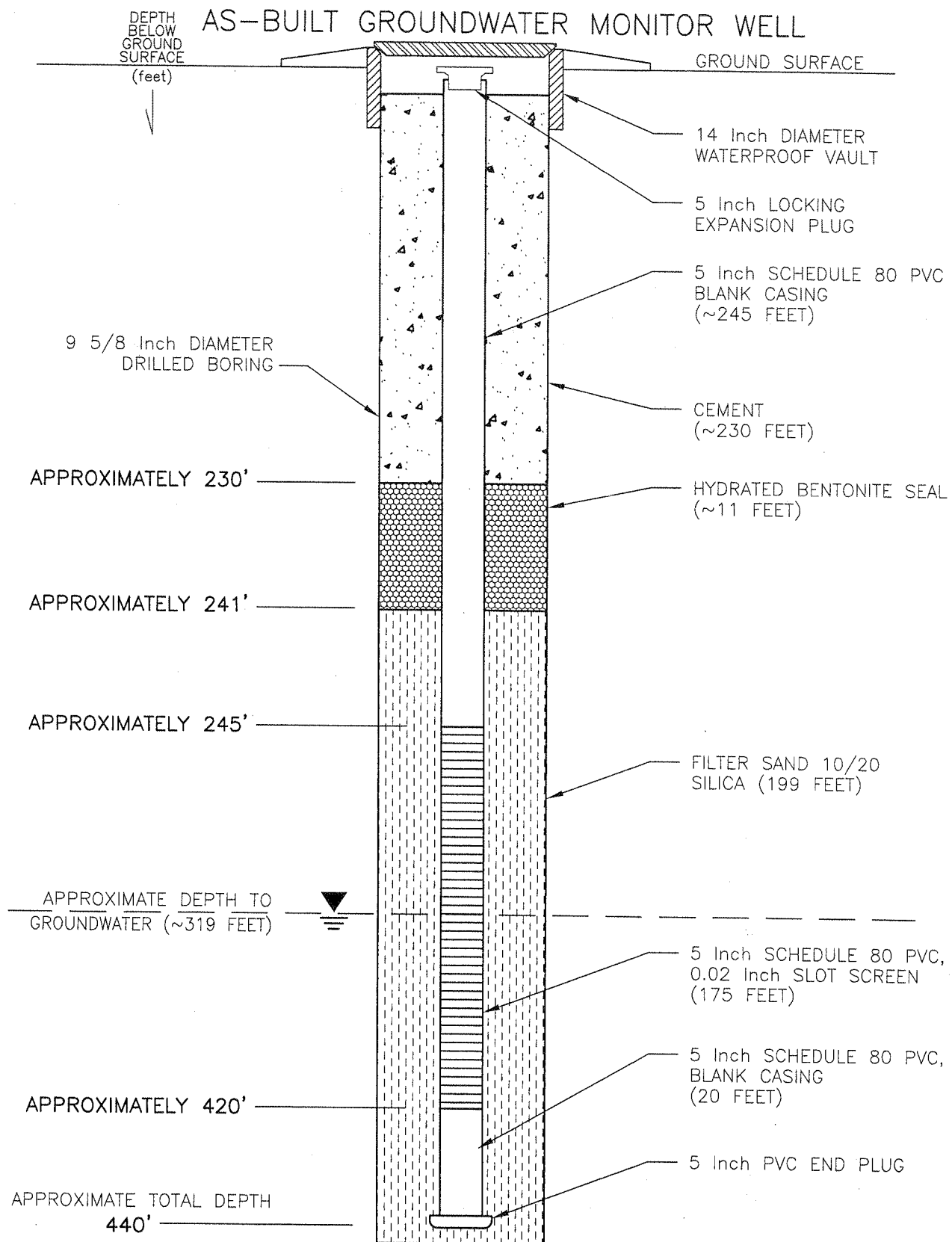
1830 WEST UNIVERSITY, SUITE 106
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WELL CONSTRUCTION DIAGRAM
(BP-16)
BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-12**

DATE: 07/09/02

PROJECT NO:
180T.20401.00.0021



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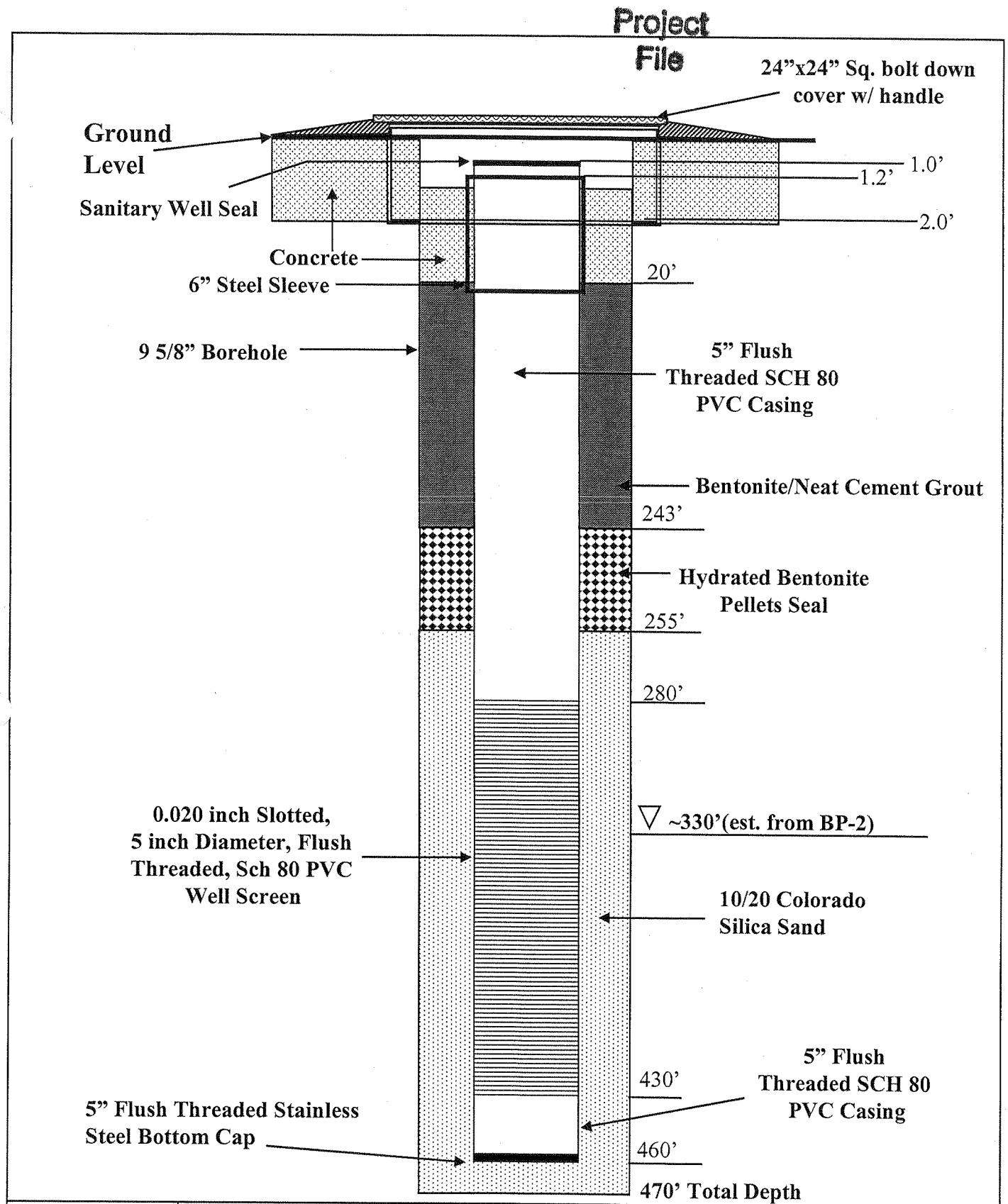
WELL CONSTRUCTION DIAGRAM
(BP-19)

BROADWAY-PANTANO WQARF SITE
TUCSON, ARIZONA

FIGURE: **E-13**

DATE: 02/18/03

PROJECT NO:
018.20401.021



Environmental
Services

Monitor Well BP-20
Broadway WQARF Area
As-Built

Figure E-14

Project File

Ground
Level

Sanitary Well Seal

Concrete
6" Steel Sleeve

9 5/8" Borehole

24"x24" Sq. bolt down
cover w/ handle

1.0'

1.2'

20'

5" Flush
Threaded SCH 80
PVC Casing

Bentonite/Neat Cement Grout

245'

Hydrated Bentonite
Pellets Seal

255'

280'

0.020 inch Slotted,
5 inch Diameter, Flush
Threaded, Sch 80 PVC
Well Screen

▽ ~330'(est. from BP-2)

10/20 Colorado
Silica Sand

430'

5" Flush
Threaded SCH 80
PVC Casing

460'

5" Flush Threaded
Stainless Steel Bottom Cap

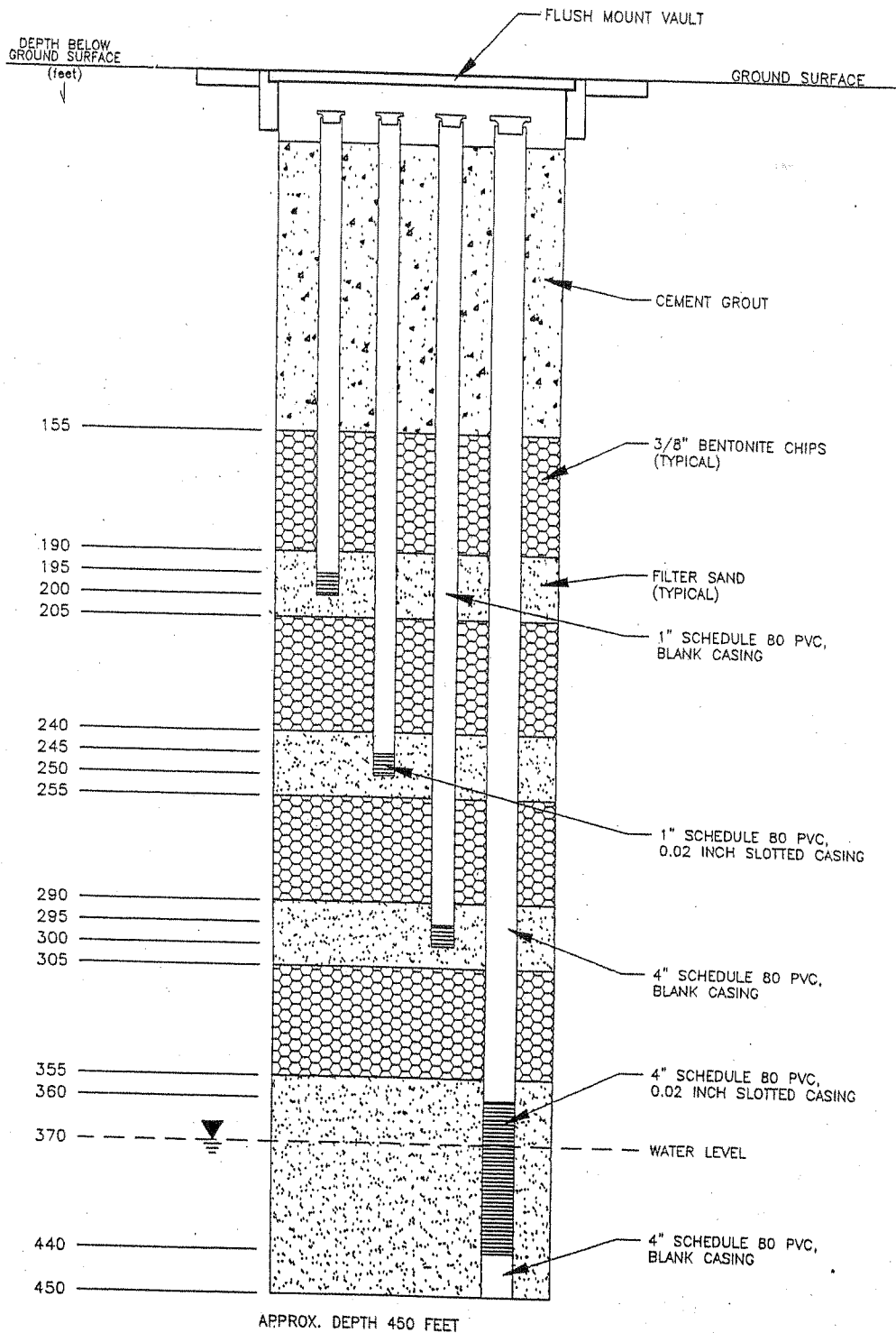
470' Total Depth



Environmental
Services

Monitor Well BP-21
Broadway WQARF Area
As-Built

Figure E-15



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Tempe, Arizona 85281

PHONE: 480-804-1420 FAX: 480-804-1482

FOR:

BROADWAY-PANTANO
WQARF SITE
TUCSON, ARIZONA

BP-22
NESTED SOIL VAPOR/GROUNDWATER
MONITOR WELL SCHEMATIC DIAGRAM

FIGURE:

E-16

JOB NUMBER:

18QT.20401.06

DRAWN BY:

BDF

CHECKED BY:

TAK

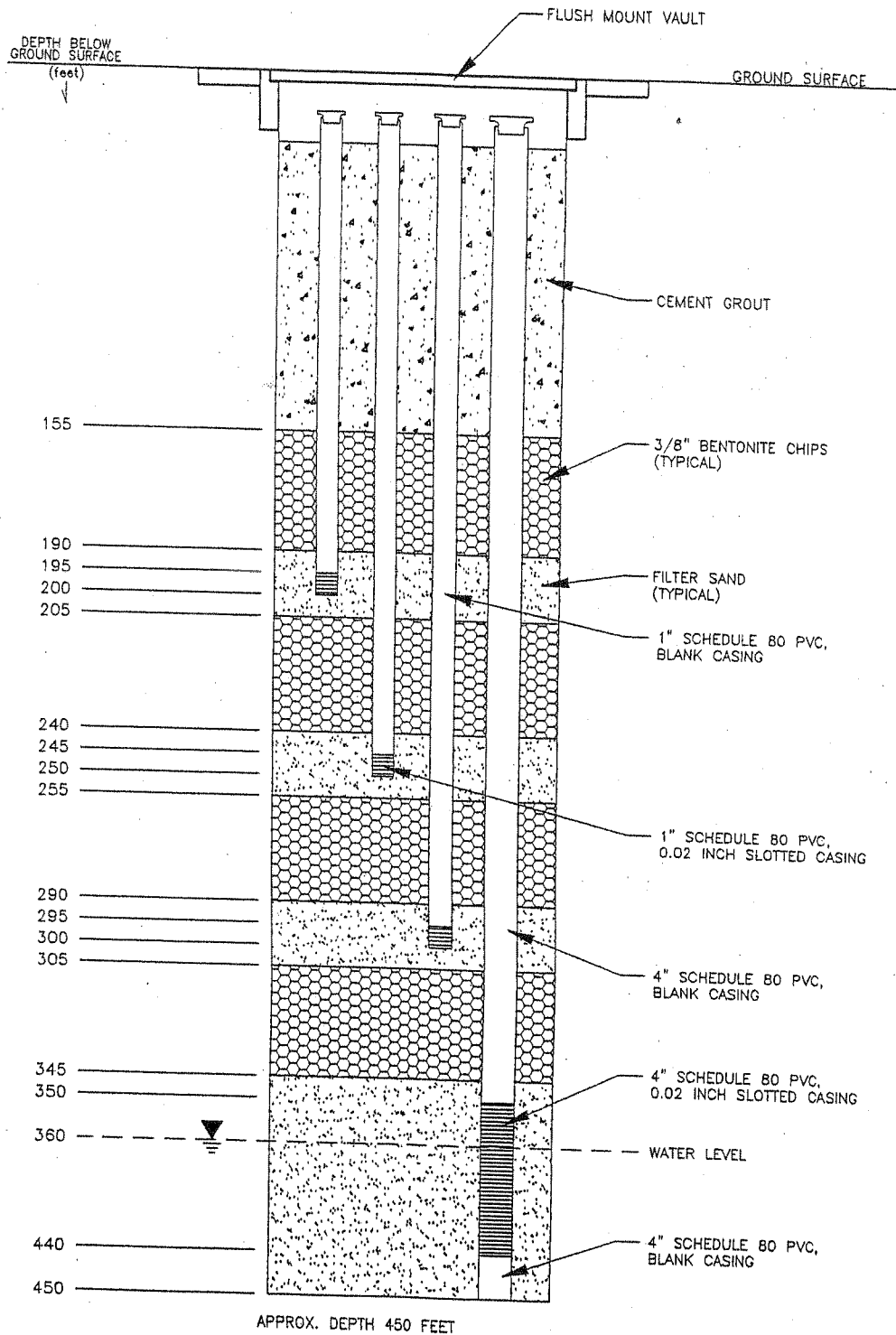
APPROVED BY:

TAK

DATE:

03/14/2006

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FOR:

BROADWAY-PANTANO
WQARF SITE
TUCSON, ARIZONA

JOB NUMBER:

18OT.20401.06

DRAWN BY:

BDF

BP-23
NESTED SOIL VAPOR/GROUNDWATER
MONITOR WELL SCHEMATIC DIAGRAM

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APPROVED BY:

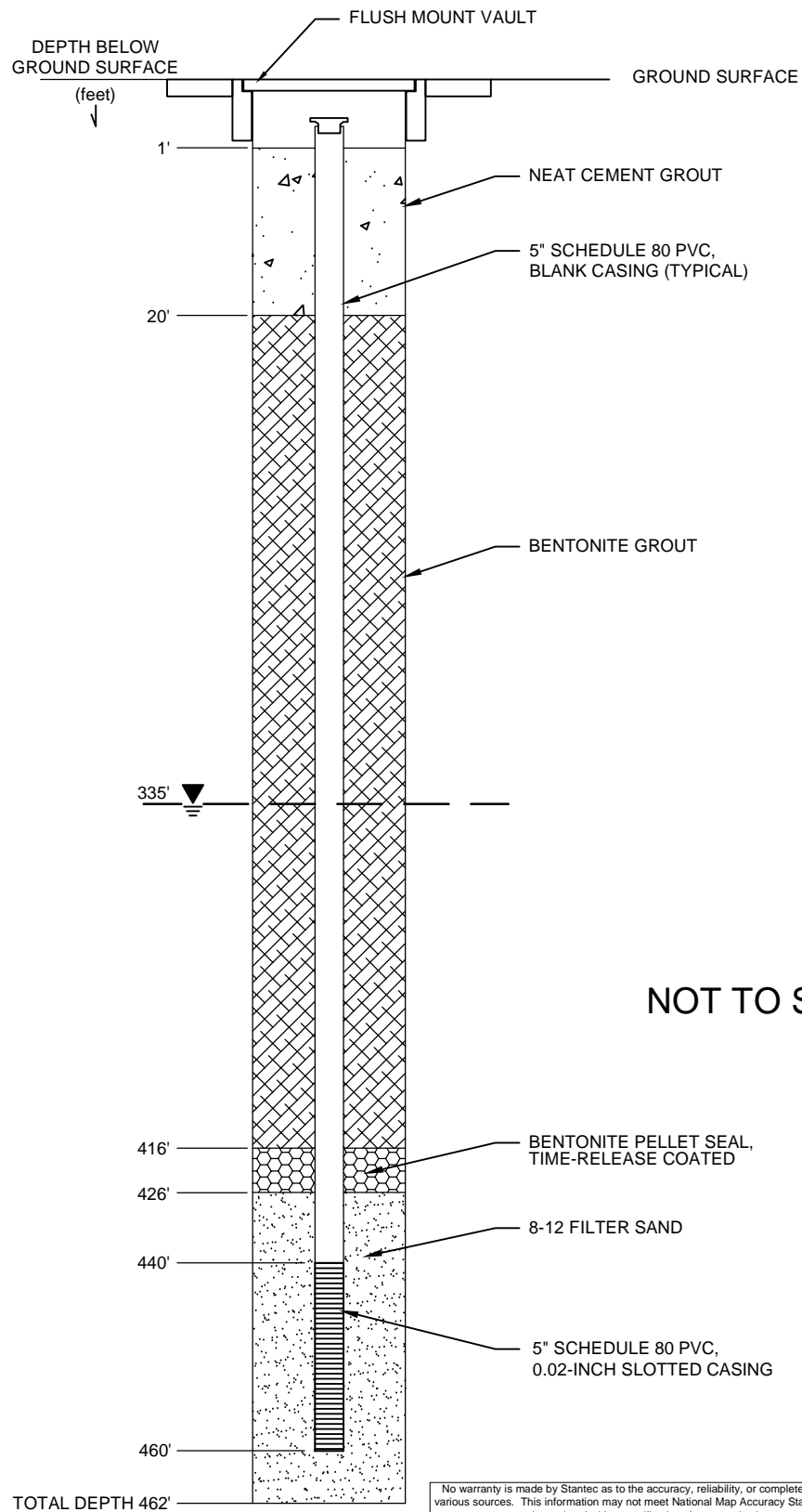
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FIGURE:

E-17

DATE:

03/14/2006



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FOR:

BROADWAY - PANTANO
WQARF SITE
TUCSON, ARIZONA

JOB NUMBER:

18OT.20401.08

DRAWN BY:

KJG

CHECKED BY:

TAK

APPROVED BY:

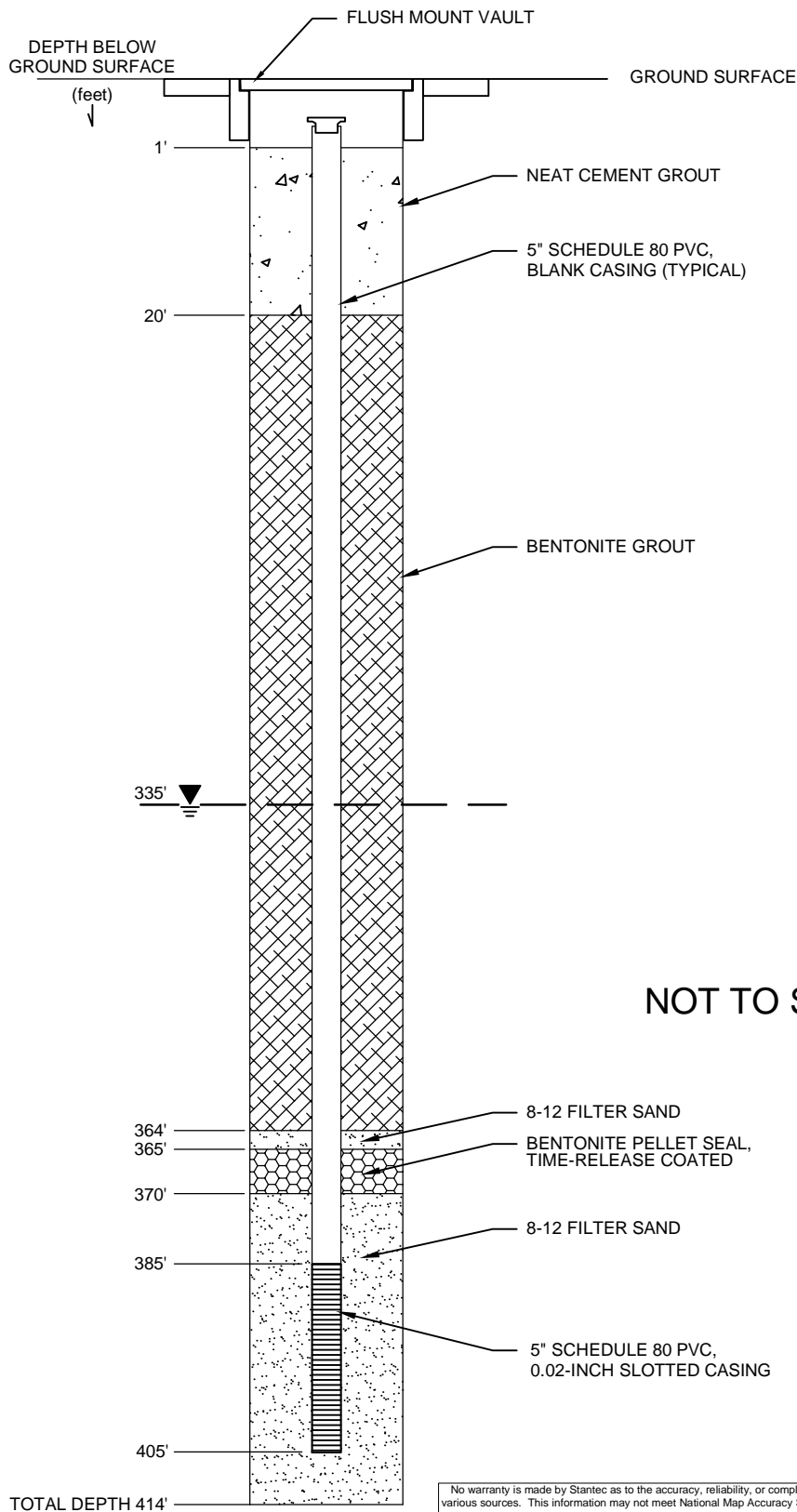
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FIGURE:

E-18

DATE:

7/30/2008



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Phoenix, Arizona

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FOR:

BROADWAY - PANTANO
WQARF SITE
TUCSON, ARIZONA

JOB NUMBER:

18OT.20401.08

DRAWN BY:

KJG

AS-BUILT BP-24B GROUNDWATER
MONITORING WELL
SCHEMATIC DIAGRAM

CHECKED BY:

TAK

APPROVED BY:

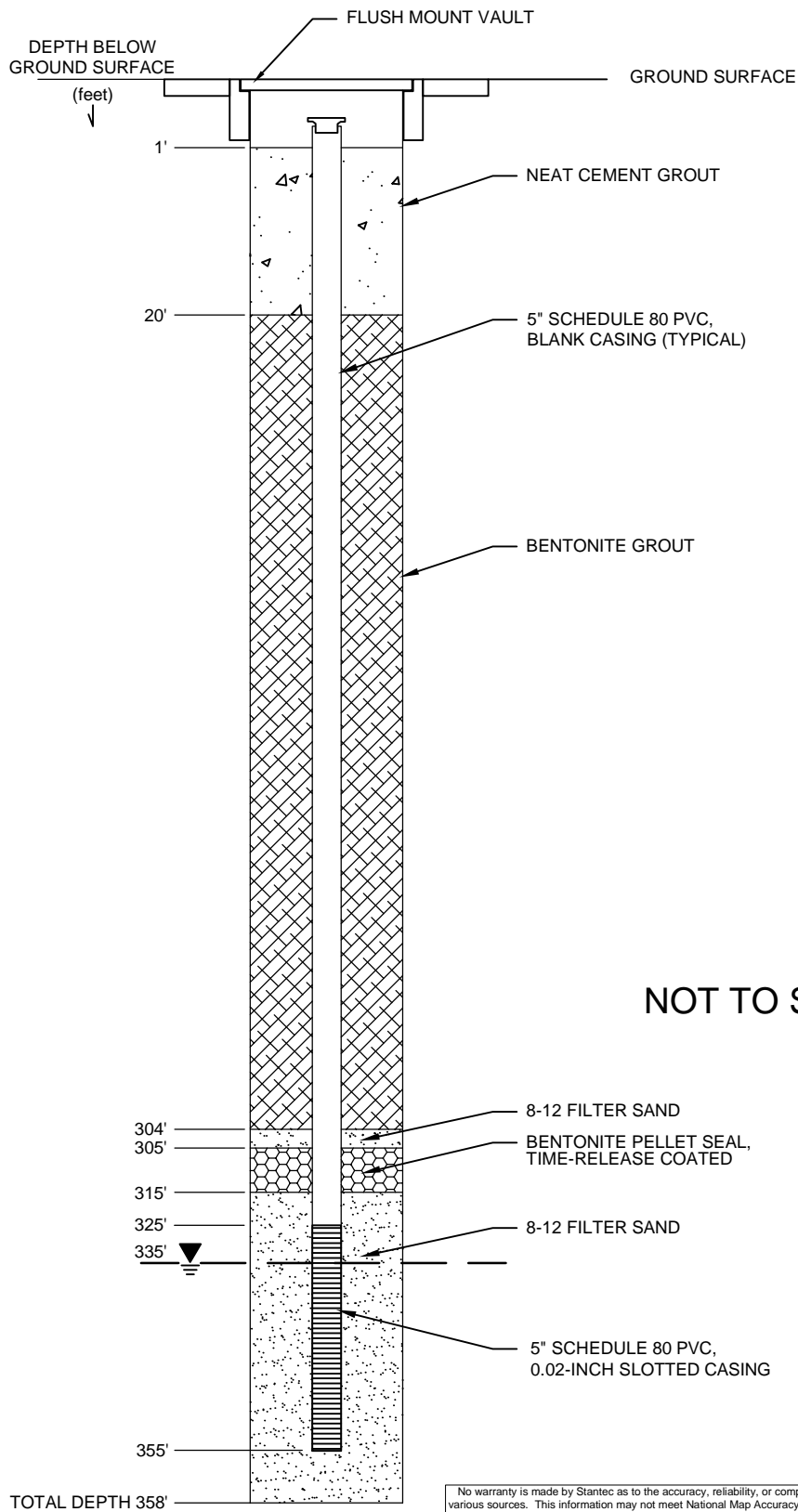
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FIGURE:

E-19

DATE:

7/30/2008



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WQARF SITE
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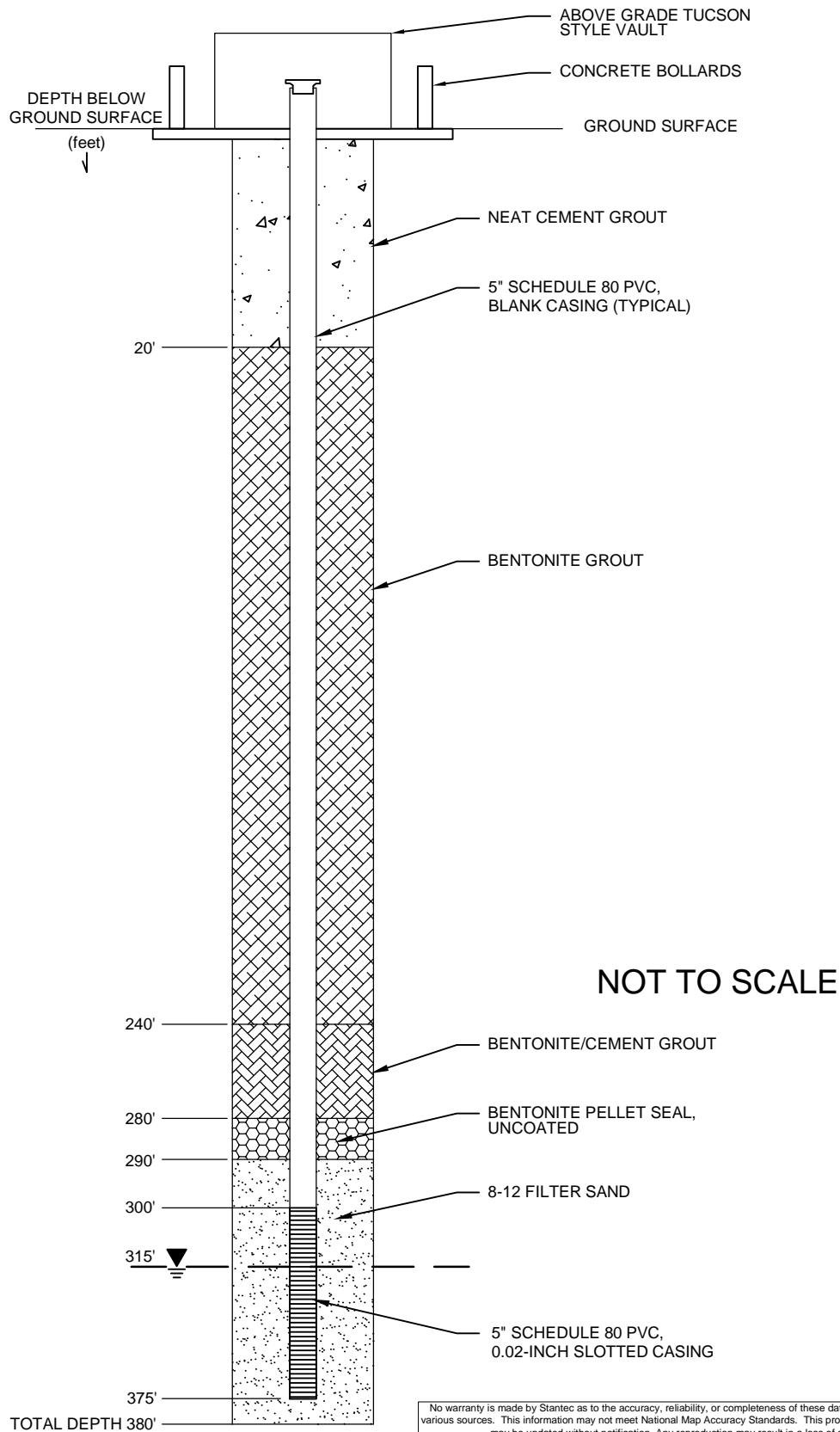
FIGURE:

E-20

DATE:

7/30/2008

AS-BUILT BP-24A GROUNDWATER
MONITORING WELL
SCHEMATIC DIAGRAM



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Phoenix, Arizona

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BROADWAY - PANTANO
WQARF SITE
TUCSON, ARIZONA

JOB NUMBER:

18OT.20401.08

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CHECKED BY:

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TAK

FIGURE:

E-21

DATE:

7/30/2008

AS-BUILT BP-25 GROUNDWATER
MONITORING WELL
SCHEMATIC DIAGRAM