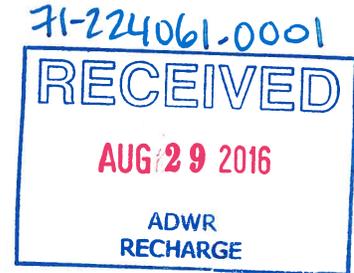


JOHNSON UTILITIES, L.L.C

5230 East Shea Boulevard * Scottsdale, Arizona 85254
P.H: (480) 998-3300; FAX: (480) 483-7908

August 25, 2016

Arizona Department of Water Resources
Water Management Division
1110 W Washington Street, Suite 310
Phoenix, Arizona 85007



RE: Pecan Water Reclamation Plant Underground Storage Facility
Permit No. 71-224061.0000 Modification

Dear Sir or Madam:

Johnson Utilities, LLC is submitting an Application for Modification of USF Permit No. 71-224061.0000. This USF Permit is for recharging the aquifer with treated wastewater effluent at Pecan Water Reclamation Plant in San Tan Valley, AZ. Johnson Utilities, LLC requests for the existing vadose zone recharge wells located in the Southwest and Southeast recharge basins to be included within the permit. The annual recharge volume of 4,480 ac-ft/yr will remain the same.

The vadose zone recharge wells to be included in the USF Permit are as follows:

- 55-226175 (C1)
- 55-226176 (C2)
- 55-226177 (C3)
- 55-226178 (C4)
- 55-226179 (C5)
- 55-226180 (C6)
- 55-226181 (C7)
- 55-226182 (C8)
- 55-226183 (C9)
- 55-226184 (C10)
- 55-226185 (C11)
- 55-226186 (C12)
- 55-226187 (SE1)
- 55-226188 (SE2)
- 55-226189 (SE3)
- 55-226190 (SE4)
- 55-226191 (SE5)
- 55-226192 (SE6)
- 55-226193 (SW1)
- 55-226194 (SW2)
- 55-226195 (SW3)
- 55-226196 (SW4)
- 55-226197 (SW5)
- 55-226198 (SW6)

Included in this submittal are the following: Application for Underground Storage Facility Permit, Pecan WRP Site Plan, and Construction Diagram for each well, These

existing wells are included and approved in Aquifer Protection Permit No. P-105324.
Enclosed is Check No. 25540 for the \$2,000.00 application fee.

If you should have any questions or comments, please contact me at (480) 998-3300.

Sincerely,

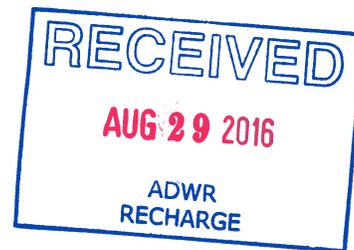
A handwritten signature in black ink, appearing to read "Brad Cole", written over a horizontal line.

Brad Cole
Chief Operating Officer

Attachments:

1. Application for Modification of USF Permit No. 71-224061.0000
2. Pecan WRP Site Plan.
3. Well Construction Diagrams
4. Check No. 25540 for \$2,000.00

ARIZONA DEPARTMENT OF WATER RESOURCES
Water Management Division
3550 North Central Ave, 2nd Floor
Phoenix, Arizona 85012-2105
Phone (602) 771-8585 Fax (602) 771-8689



APPLICATION FOR UNDERGROUND STORAGE FACILITY PERMIT (A.R.S. § 45-811.01)

The initial fee for an Underground Storage Facility Permit Application is \$2,000. Total fees for this application are based upon an hourly billable rate, which can be found on the ADWR web site @www.azwater.gov. If the costs of reviewing your application exceed \$2,000, you will be invoiced for the difference, up to a maximum total fee of \$25,000. Payment may be made by cash, check,

or credit card, (if you wish to pay by credit card, please contact the Recharge Program at 602-771-8599). Checks should be made payable to the Arizona Department of Water Resources. In addition to the hourly application fee, the applicant must pay any review-related costs associated with the application and the actual cost of mailing or publishing any legal notice of the application or any notice of a pre-decision administrative hearing on the application. Review related costs are: (1) costs associated with a pre-decision hearing on the application, such as court reporter services and facility rentals for the hearing, and (2) mileage expenses for a site visit conducted before issuing a decision on the application. **Failure to enclose the initial application fee will cause the application to be returned. Fees for an Underground Storage Facility Permit Application are authorized by A.R.S. § 45-871.01 and A.A.C. R12-15-103.**

FOR OFFICE USE ONLY	
Application No.:	<u>71-224061.0001</u>
Date Received:	<u>8-29-2016</u>

FACILITY DESIGN: (check one)

- Constructed**
- Managed**

APPLICATION FOR: (check one)

- Underground Storage Facility (USF)**
- Modification of USF permit no.:**
71-224061.0000
- Renewal of USF permit no.:**
71-

GENERAL INFORMATION

1. Name of Applicant: Johnson Utilities, LLC
5230 E Shea Blvd, Suite 200 Scottsdale AZ 85254
Mailing Address City State Zip
Contact Person: Brad Cole Telephone: (480) 998-3300 Email: BCole@azvision.net

2. Is this a State Demonstration Project? Yes x No

(NOTE: Pursuant to A.R.S. § 45-893.01, **only** Conservation Districts qualify to participate in State Demonstration Project program.)

3. Name of Active Management Area or Irrigation Non-Expansion Area where the facility will be located:
Phoenix

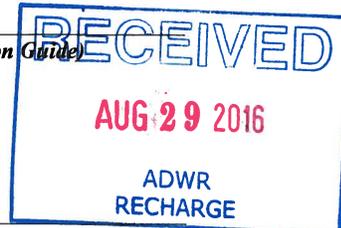
(If the facility is NOT located within an AMA or INA, please indicate "NONE.")

4. Name of groundwater basin and subbasin where the facility will be located: Gila River Basin, East Salt River Subbasin

71-224061.0001

5. Legal description of the location of the facility: NW 1/4 of SE 1/4 of NW 1/4 Section 29, Township 2S, Range 8E, Gila and Salt River Baseline & Meridian

(quarter/quarter/quarter/section, township and range – see Appendix C of USF Application Guide)



6. Does the applicant own the land where the facility is to be located? Yes No

7. The total design capacity of the facility: 89,600

(acre-feet to be stored over the duration of the USF permit)

8. The maximum annual amount of water proposed for storage at this facility: 4,480

(acre-feet per year)

9. Proposed duration of permit: 20 years

(years)

10. Type of source water to be stored:

CAP Water

Effluent

Decreed and Appropriative Surface Water

If Decreed and Appropriative Surface Water, list river(s): _____

11. I agree under penalty of law to obtain any required floodplain use permit from the county flood control district before beginning any construction activities, as required by A.R.S. § 45-811.01(C)(4). Agree Disagree

12. **For managed USFs where effluent will be stored only:** Are you requesting that this facility be designated as a facility that could add value to a national park, national monument or state park, as described in A.R.S. § 45-811.01(D)?

Yes No

If yes, please submit a completed USF Permit Application Supplement to designate a Managed Underground Storage Facility as one that could add value to a national park, national monument, or state park and all additional information as described on the USF Permit Application Supplement.

13. **For permit modifications only,** give a brief description of the modification(s) requested by this application: Addition of 24 vadose zone recharge wells. These vadose zone recharge wells are existing and are located in the south east and east recharge basins. See attached facility site plan.

SUPPORTING EVIDENCE

Check the following items that have been included with this submittal. For a new USF application, all items **must** be submitted prior to receiving a complete and correct determination by the Department. For a modification to an existing USF permit, submit only those items that apply to the modification. For a full description of these requirements refer to the USF Application Report in the USF Application Guide.

14. USF Site and Facility Characteristics:

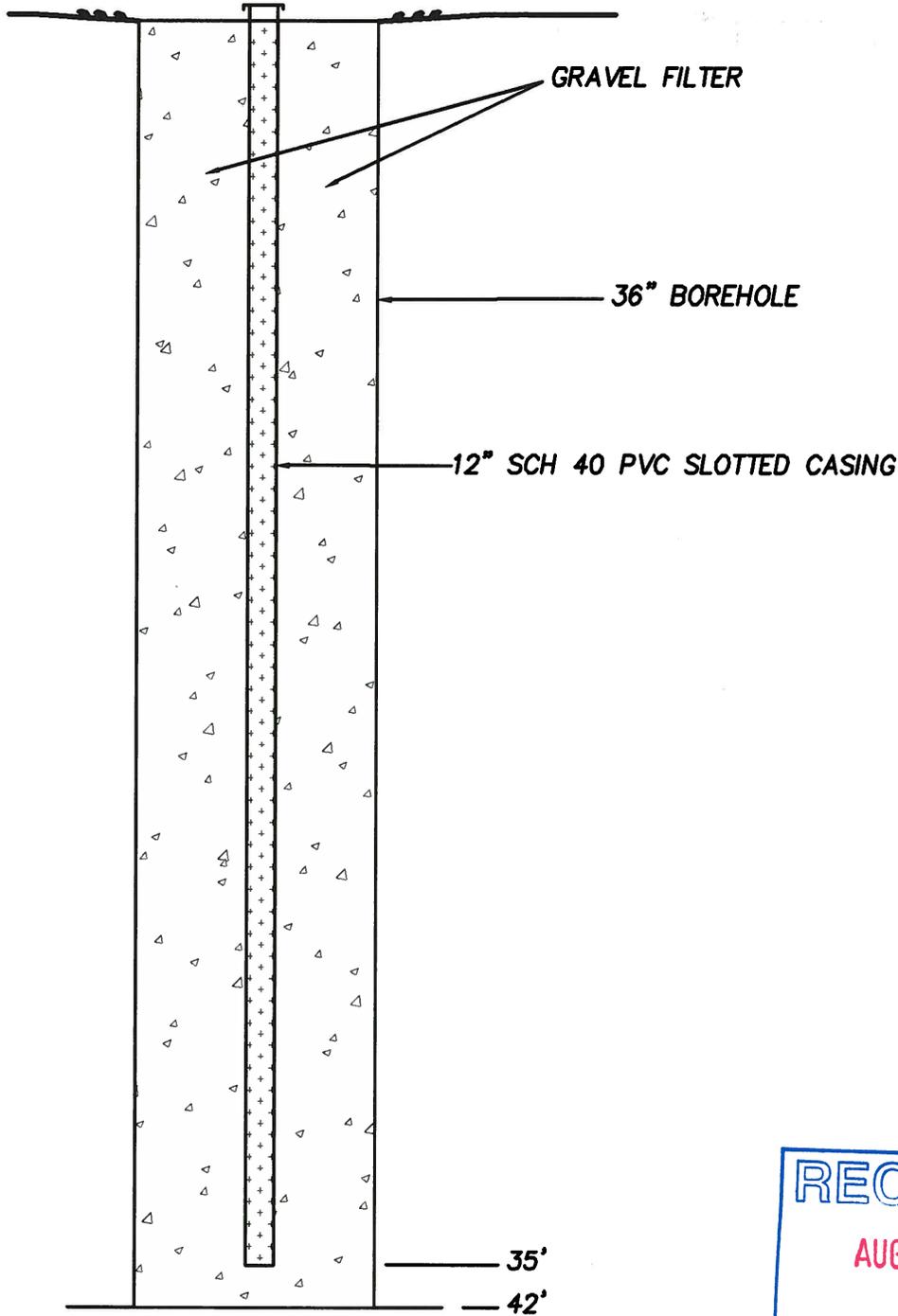
Site Characteristics

Geology

Facility Characteristics

Hydrogeology

71-224061-0001



RECEIVED

AUG 29 2016

ADWR
RECHARGE

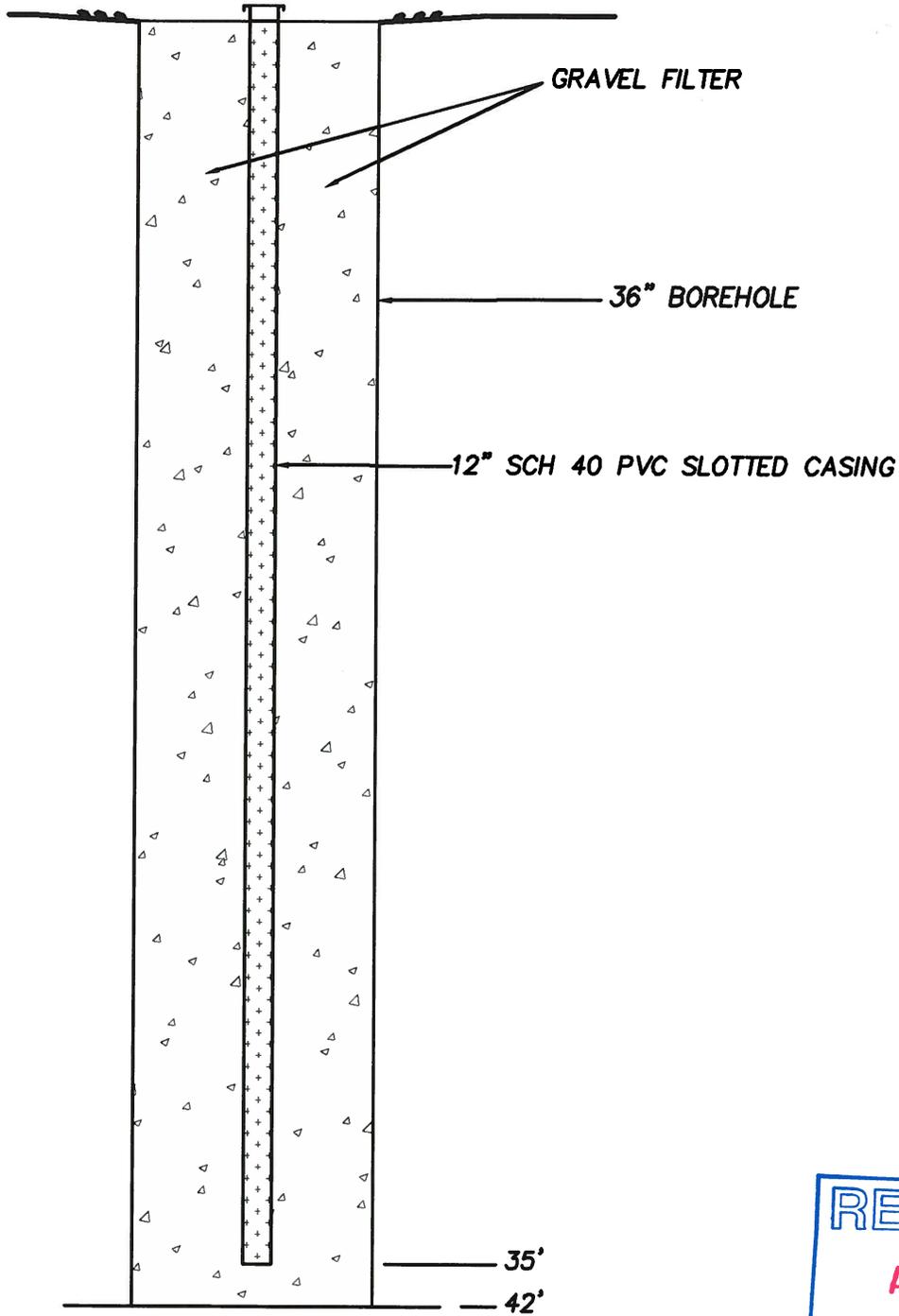
S:\Specific Engineering\3002\VADOSE WELL#5 - As-Built.dwg Plotted: Jun 02, 2016

PECAN WRP Vadose Zone Recharge Well As-Built TYPICAL FOR WELLS C1-C12	DRAWN RSW	
	DATE	
	SCALE NTS	

SPECIFIC ENGINEERING, LLC.

8830 E. SHEA BOULEVARD SUITE 220
 SCOTTSDALE, ARIZONA 85264
 Phone: (480) 896-6335
 Fax: (480) 896-6437

71-224061-0001



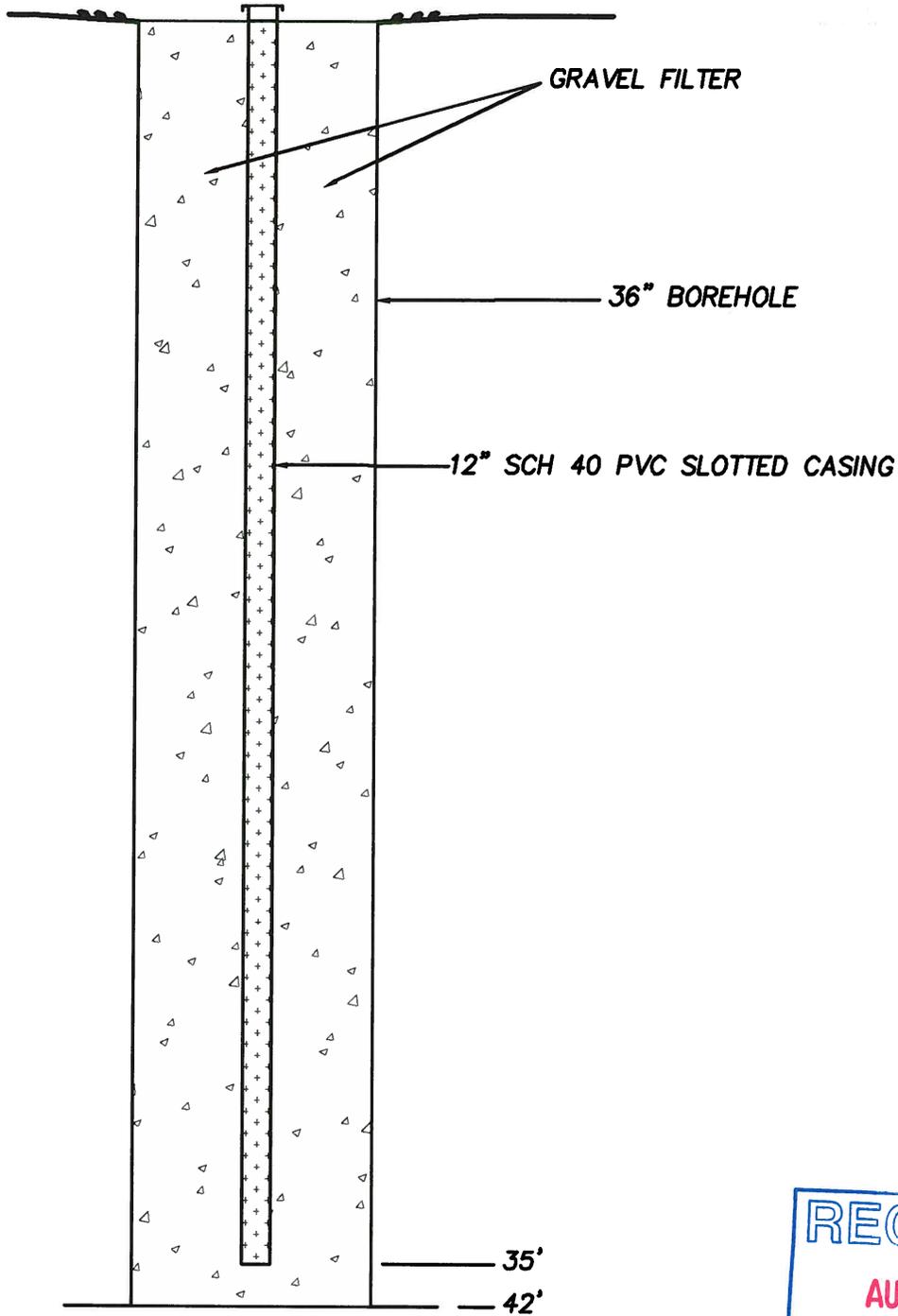
RECEIVED
 AUG 29 2016

S:\Specific Engineering\3002\VAADOSE WELL#6 - As-Built.dwg Plotted: Jun 02, 2016

PECAN WRP Vadose Zone Recharge Well As-Built TYPICAL FOR WELLS SW1-SW6	DRAWN RSW	
	DATE	
	SCALE NTS	

SPECIFIC ENGINEERING, LLC.
 8830 E. SHEA BOULEVARD SUITE 200
 SCOTTSDALE, ARIZONA 85264
 Phoenix (480) 586-6333
 FAX (480) 586-6337

71-224061-0001



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AUG 29 2016
ADWR
RECHARGE

S:\Specific Engineering\3002\VADOSE WELL\7 - As-Built.dwg Plotted: Jun 02, 2016

PECAN WRP

Vadose Zone Recharge Well As-Built
TYPICAL FOR WELLS SE1-SE6

DRAWN RSW

DATE

SCALE NTS



SPECIFIC ENGINEERING, LLC.

8830 E. SHEA BOULEVARD SUITE 200
SCOTTSDALE, ARIZONA 85264
Phoenix (602) 998-6335
FAX (602) 998-6437



VADOSE ZONE WELLS

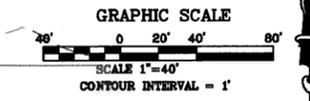
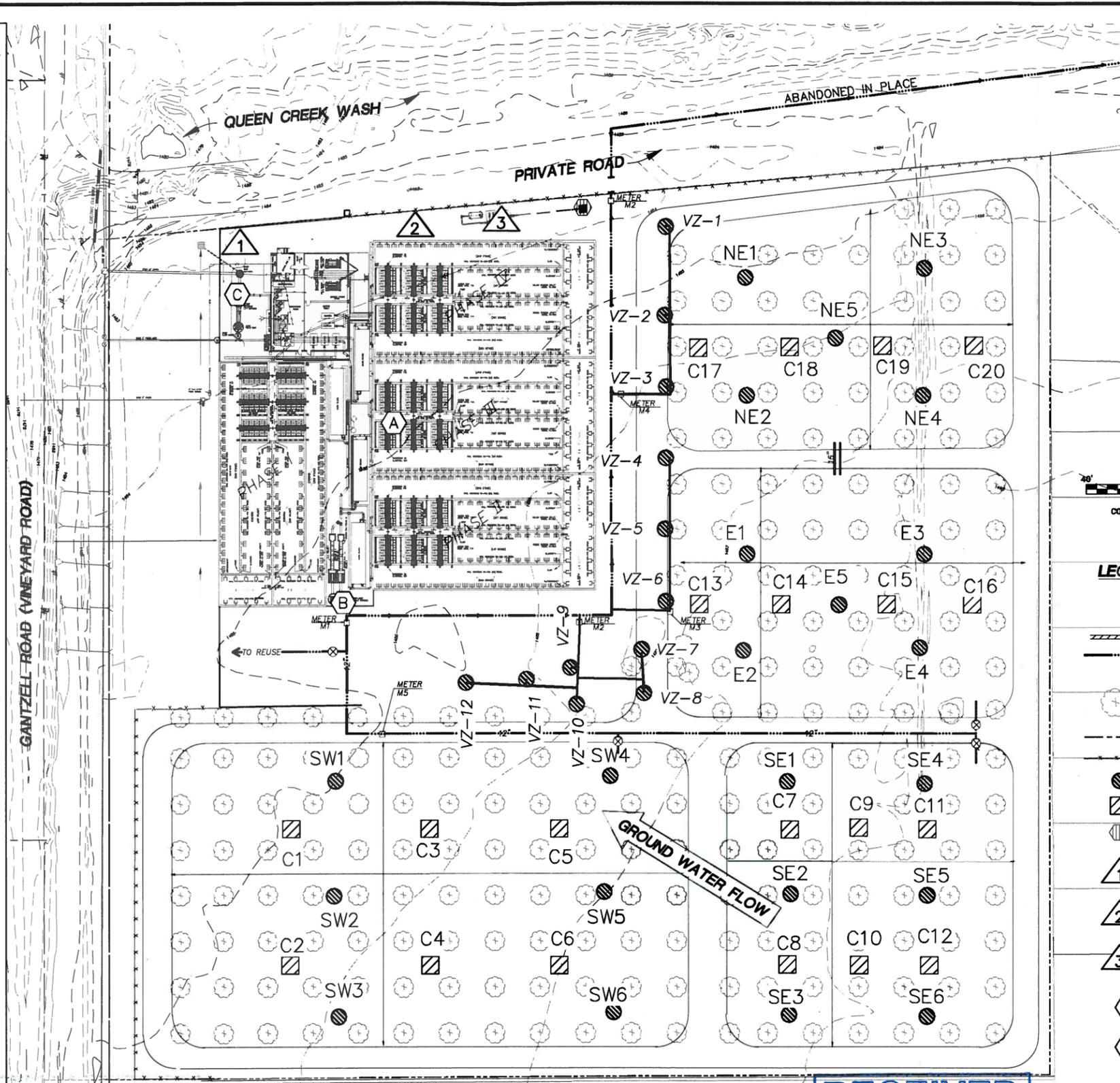
SW1	LATITUDE: 33°13'47.874" LONGITUDE: -111°33'43.576"	VZ-1	LATITUDE: 33°13'50.39" LONGITUDE: -111°33'42.02"
SW2	LATITUDE: 33°13'47.004" LONGITUDE: -111°33'43.595"	VZ-2	LATITUDE: 33°13'49.141" LONGITUDE: -111°33'42.25"
SW3	LATITUDE: 33°13'46.093" LONGITUDE: -111°33'43.555"	VZ-3	LATITUDE: 33°13'49.17" LONGITUDE: -111°33'42.02"
SW4	LATITUDE: 33°13'47.905" LONGITUDE: -111°33'41.084"	VZ-4	LATITUDE: 33°13'48.82" LONGITUDE: -111°33'42.02"
SW5	LATITUDE: 33°13'47.029" LONGITUDE: -111°33'41.144"	VZ-5	LATITUDE: 33°13'48.10" LONGITUDE: -111°33'42.03"
SW6	LATITUDE: 33°13'46.123" LONGITUDE: -111°33'41.063"	VZ-6	LATITUDE: 33°13'47.55" LONGITUDE: -111°33'42.19"
NE1	LATITUDE: 33°13'51.676" LONGITUDE: -111°33'39.845"	VZ-7	LATITUDE: 33°13'47.197" LONGITUDE: -111°33'42.25"
NE2	LATITUDE: 33°13'50.788" LONGITUDE: -111°33'39.838"	VZ-8	LATITUDE: 33°13'46.86" LONGITUDE: -111°33'42.23"
NE3	LATITUDE: 33°13'51.742" LONGITUDE: -111°33'38.227"	VZ-9	LATITUDE: 33°13'47.05" LONGITUDE: -111°33'43.10"
NE4	LATITUDE: 33°13'50.780" LONGITUDE: -111°33'38.245"	VZ-10	LATITUDE: 33°13'46.79" LONGITUDE: -111°33'42.84"
NE5	LATITUDE: 33°13'51.195" LONGITUDE: -111°33'39.001"	VZ-11	LATITUDE: 33°13'46.98" LONGITUDE: -111°33'43.29"
		VZ-12	LATITUDE: 33°13'46.94" LONGITUDE: -111°33'43.84"

E1	LATITUDE: 33°13'49.584" LONGITUDE: -111°33'39.840"
E2	LATITUDE: 33°13'48.853" LONGITUDE: -111°33'39.879"
E3	LATITUDE: 33°13'49.579" LONGITUDE: -111°33'38.238"
E4	LATITUDE: 33°13'48.871" LONGITUDE: -111°33'38.280"
E5	LATITUDE: 33°13'49.177" LONGITUDE: -111°33'38.986"

SE1	LATITUDE: 33°13'47.857" LONGITUDE: -111°33'39.478"
SE2	LATITUDE: 33°13'47.009" LONGITUDE: -111°33'38.453"
SE3	LATITUDE: 33°13'46.099" LONGITUDE: -111°33'38.470"
SE4	LATITUDE: 33°13'47.841" LONGITUDE: -111°33'38.241"
SE5	LATITUDE: 33°13'46.988" LONGITUDE: -111°33'38.215"
SE6	LATITUDE: 33°13'46.078" LONGITUDE: -111°33'38.219"

CONTINGENCY VADOSE WELLS

C1	LATITUDE: 33°13'47.310" LONGITUDE: -111°33'43.984"
C2	LATITUDE: 33°13'46.488" LONGITUDE: -111°33'44.000"
C3	LATITUDE: 33°13'47.498" LONGITUDE: -111°33'42.705"
C4	LATITUDE: 33°13'46.482" LONGITUDE: -111°33'42.709"
C5	LATITUDE: 33°13'47.513" LONGITUDE: -111°33'41.546"
C6	LATITUDE: 33°13'46.479" LONGITUDE: -111°33'41.562"
C7	LATITUDE: 33°13'47.497" LONGITUDE: -111°33'39.482"
C8	LATITUDE: 33°13'46.473" LONGITUDE: -111°33'38.438"
C9	LATITUDE: 33°13'47.515" LONGITUDE: -111°33'38.818"
C10	LATITUDE: 33°13'46.461" LONGITUDE: -111°33'38.811"
C11	LATITUDE: 33°13'47.493" LONGITUDE: -111°33'38.239"
C12	LATITUDE: 33°13'46.479" LONGITUDE: -111°33'38.195"
C13	LATITUDE: 33°13'49.208" LONGITUDE: -111°33'40.270"
C14	LATITUDE: 33°13'49.206" LONGITUDE: -111°33'39.545"
C15	LATITUDE: 33°13'48.193" LONGITUDE: -111°33'38.575"
C16	LATITUDE: 33°13'48.181" LONGITUDE: -111°33'37.803"
C17	LATITUDE: 33°13'51.136" LONGITUDE: -111°33'40.284"
C18	LATITUDE: 33°13'51.175" LONGITUDE: -111°33'39.451"
C19	LATITUDE: 33°13'51.172" LONGITUDE: -111°33'38.619"
C20	LATITUDE: 33°13'51.170" LONGITUDE: -111°33'37.786"



- LEGEND**
- 8' CMU WALL
 - 8' HDPE
 - EXISTING PECAN TREES
 - PROPERTY LINE
 - 8' CHAIN LINK FENCE W/2 ROW RAZOR WIRE
 - VADOSE ZONE RECHARGE WELLS
 - CONTINGENCY VADOSE ZONE RECHARGE WELLS
 - PRODUCTION WATER WELL
LATITUDE: 33°13'49.829"
LONGITUDE: -111°33'42.854"
 - POINT OF COMPLIANCE #1
LATITUDE: 33°13'51.922"
LONGITUDE: -111°33'44.434"
 - POINT OF COMPLIANCE #2 (MW-1)
LATITUDE: 33°13'52.084"
LONGITUDE: -111°33'42.833"
 - POINT OF COMPLIANCE #3 (MW-2)
LATITUDE: 33°13'52.104"
LONGITUDE: -111°33'42.230"
 - CENTER OF PLANT
LATITUDE: 33°13'48.188"
LONGITUDE: -111°33'44.830"
 - EFFLUENT PUMP STATION AND EFFLUENT SAMPLE POINT
LATITUDE: 33°13'46.883"
LONGITUDE: -111°33'45.096"
 - INFLUENT PUMP STATION
LATITUDE: 33°13'51.515"
LONGITUDE: -111°33'44.433"

SPECIFIC ENGINEERING, LLC.
5230 E. SHEA BOULEVARD SUITE 220
SPRINGDALE, AR 72762
PHONE: (479) 598-6335
FAX: (479) 598-6437

NO.	DATE	APP.	DESCRIPTION
1	7/28/12	MP-2	

DESIGNED: FRB
DRAWN: FRB
CHECKED: GHB
DATE: 04-09
SCALE:
PROJECT:
FILE NAME:

40 MGD PECAN WATER RECLAMATION PLANT

VADOSE ZONE WELL SITE PLAN

RECEIVED
AUG 29 2016
ADWR RECHARGE

71-224061.0001

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