



March 6, 2024

Victoria Venegas  
Environmental Specialist  
New Mexico Oil Conservation Division  
506 W. Texas Ave.  
Artesia, NM 88210

**Re: Permit Modification Request for the Janikowski Recycle Facility (~~2023-2024~~ 1RF-510  
VV. 04/04/2024**

Ms. Venegas,

Pilot Water Solutions (331374) would like to submit a permit modification request for the Pilot Janikowski (1RF-510). Due to a proposed pipeline route, placement of the four recycle containments needs to be changed from the original design. Pilot Water Solutions is requesting this permit modification to stay in compliance with the originally issued Janikowski Permit. Pilot would also like to reduce the size of the AST's from 60K bbl. to 40K bbl.

All setbacks required by NMAC 19.15.34.11 are still met. No changes to the operating plans, maintenance plans, and monitoring plans were made. Pilot intends to comply with all variances granted and all previously approved permit conditions. The only deviations from the original permit will be the placement of the recycling containments as well as the sizing of the AST's.

Enclosed in the package are all necessary documents that were affected by the changes in placement of the recycle containments along with new C-147 forms for each containment with the Modification box marked.

- Updated C-147 form for all containments with Modification Box Checked
- Modified Engineering Drawings
- Updated Closure Cost Estimate

Thank you for your consideration.

Best regards,

**ENVIROTECH ENGINEERING & CONSULTING, INC.**

A handwritten signature in black ink, appearing to read "M. Ratke".

Mitchell Ratke, P.E.  
Project Engineer/Project Manager

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-147  
Revised April 3, 2017

## Recycling Facility and/or Recycling Containment

Type of Facility:  Recycling Facility  Recycling Containment\*

Type of action:  Permit  Registration  
 Modification  Extension  
 Closure  Other (explain) \_\_\_\_\_

\* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: Pilot Water Solutions SWD LLC (For multiple operators attach page with information) OGRID #: 331374  
Address: 20 Greenway Plaza Ste 500 Houston, TX 77046  
Facility or well name (include API# if associated with a well): Pilot Janikowski Facility - AST East  
OCD Permit Number: 1RF-510 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr Section 12 Township 20 S Range 23 E County: Lea  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 32.591801 Longitude -103.612996 NAD83  
Proposed Use:  Drilling\*  Completion\*  Production\*  Plugging  
*\*The re-use of produced water may NOT be used until fresh water zones are cased and cemented*  
 Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.  
 Fluid Storage  
 Above ground tanks  Recycling containment  Activity permitted under 19.15.17 NMAC explain type \_\_\_\_\_  
 Activity permitted under 19.15.36 NMAC explain type: \_\_\_\_\_  Other explain \_\_\_\_\_  
 For multiple or additional recycling containments, attach design and location information of each containment  
 Closure Report (required within 60 days of closure completion):  Recycling Facility Closure Completion Date: \_\_\_\_\_

3.  
 **Recycling Containment:**  
 Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)  
Center of Recycling Containment (if applicable): Latitude 32.589050° Longitude -103.619485° NAD83  
 For multiple or additional recycling containments, attach design and location information of each containment  
 Lined  Liner type: Thickness 40/40 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 40,000 bbl Dimensions: L \_\_\_\_\_ x W 155 x D 12  
 Recycling Containment Closure Completion Date: \_\_\_\_\_

4.

**Bonding:**

Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)

Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$1,205,864 (work on these facilities cannot commence until bonding amounts are approved)

Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

**Fencing:**

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify 8-ft Tall Wire Mesh Game Fence

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**Signs:**

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

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**Variances:**

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**Siting Criteria for Recycling Containment**

*Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.*

<b>General siting</b>	
<b>Ground water is less than 50 feet below the bottom of the Recycling Containment.</b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

9.

**Recycling Facility and/or Containment Checklist:**

*Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.*

- Design Plan - based upon the appropriate requirements.
- Operating and Maintenance Plan - based upon the appropriate requirements.
- Closure Plan - based upon the appropriate requirements.
- Site Specific Groundwater Data -
- Siting Criteria Compliance Demonstrations -
- Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10.

**Operator Application Certification:**

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): David Grounds Title: Vice President, Regulatory Compliance

Signature: David Grounds Date: 04.07.2024

e-mail address: david.grounds@pilotwater.com Telephone: 713-307-8702

11.

OCD Representative Signature: Victoria Venegas Approval Date: 04/04/2024

Title: Environmental Specialist OCD Permit Number: 1RF-510

OCD Conditions \_\_\_\_\_

Additional OCD Conditions on Attachment

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3.  
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 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 40,000 bbl Dimensions: L \_\_\_\_\_ x W 155 x D 12  
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Alternate. Please specify 8-ft Tall Wire Mesh Game Fence

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<p>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</p> <ul style="list-style-type: none"> <li>- Written confirmation or verification from the municipality; written approval obtained from the municipality</li> </ul>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <input type="checkbox"/> NA</p>
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<p>Within a 100-year floodplain. FEMA map</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> <li>- Topographic map; visual inspection (certification) of the proposed site</li> </ul>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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Signature: *David Grounds* Date: 04.07.2024

e-mail address: david.grounds@pilotwater.com Telephone: 713-307-8702

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OCD Representative Signature: *Victoria Venegas* Approval Date: 04/04/2024

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- OCD Conditions \_\_\_\_\_
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U/L or Qtr/Qtr Section 12 Township 20 S Range 23 E County: Lea  
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Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 286,340 bbl Dimensions: L 325 x W 475 x D 21  
 Recycling Containment Closure Completion Date: \_\_\_\_\_

4.

**Bonding:**

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Center of Recycling Containment (if applicable): Latitude 32.587850° Longitude -103.621260° NAD83  
 For multiple or additional recycling containments, attach design and location information of each containment  
 Lined  Liner type: Thickness 60/40 mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
 String-Reinforced  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_ Volume: 553,616 bbl Dimensions: L 525 x W 525 x D 21  
 Recycling Containment Closure Completion Date: \_\_\_\_\_

4.

**Bonding:**

Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)

Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ 1,205,864 (work on these facilities cannot commence until bonding amounts are approved)

Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

**Fencing:**

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify 8-ft Tall Wire Mesh Game Fence

6.

**Signs:**

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

7.

**Variances:**

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

**Check the below box only if a variance is requested:**

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

**If a Variance is requested, it must be approved prior to implementation.**

8.

**Siting Criteria for Recycling Containment**

*Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.*

<b>General siting</b>	
<b>Ground water is less than 50 feet below the bottom of the Recycling Containment.</b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

9.

**Recycling Facility and/or Containment Checklist:**

*Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.*

- Design Plan - based upon the appropriate requirements.
- Operating and Maintenance Plan - based upon the appropriate requirements.
- Closure Plan - based upon the appropriate requirements.
- Site Specific Groundwater Data -
- Siting Criteria Compliance Demonstrations -
- Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10.

**Operator Application Certification:**

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): David Grounds Title: Vice President, Regulatory Compliance

Signature: David Grounds Date: 04.07.2024

e-mail address: david.grounds@pilotwater.com Telephone: 713-307-8702

11.

OCD Representative Signature: Victoria Venegas Approval Date: 04/04/2024

Title: Environmental Specialist OCD Permit Number: 1RF-510

OCD Conditions \_\_\_\_\_

Additional OCD Conditions on Attachment

# JANIKOWSKI RECYCLE FACILITY PILOT WATER SOLUTIONS

SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST

32° 35' 20.097" N, -103° 37' 11.5062" W  
32.588916°, -103.619863°

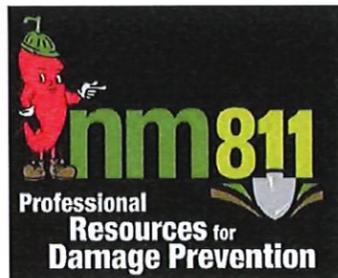
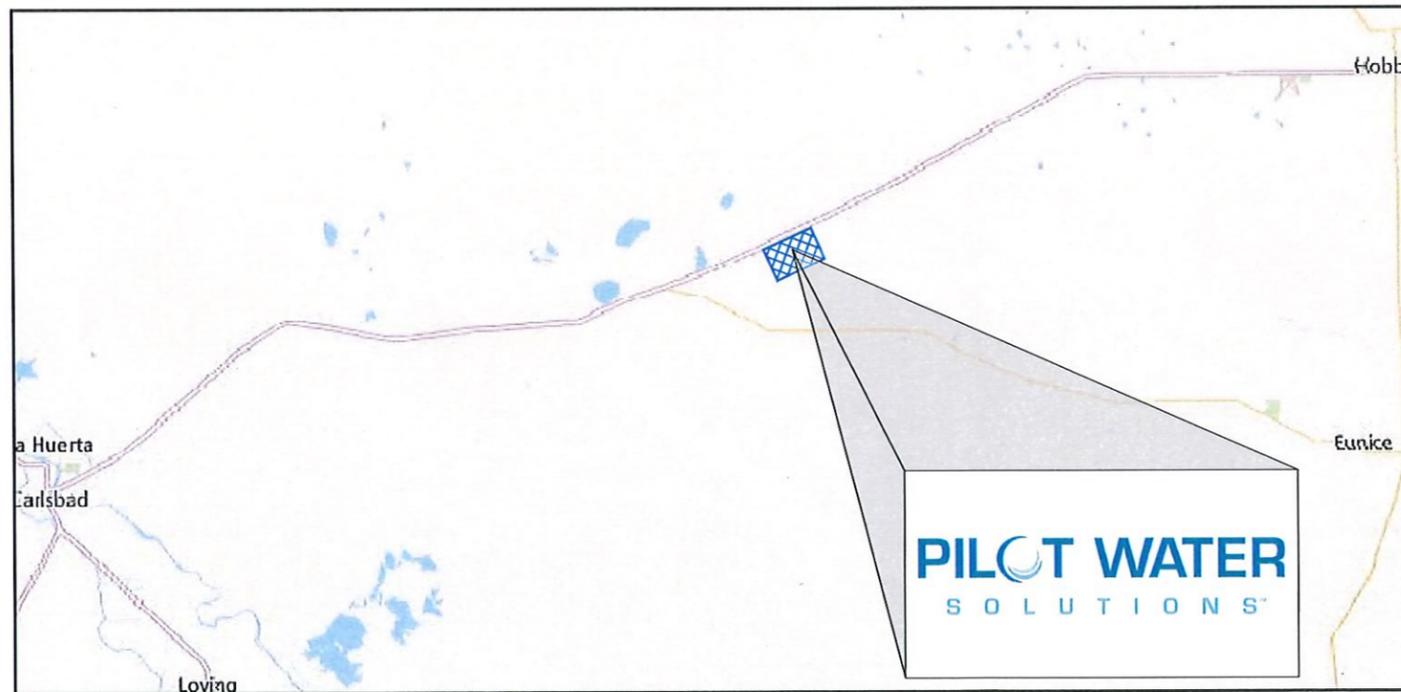


### INDEX TO DRAWINGS 11X17

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	PROJECT LOCATION
3	EXISTING SITE FEATURES
4	SITE PLAN
5	PIT CAPACITIES
6	RUB SHEET & FENCE PLAN
7	CROSS SECTIONS
8	CROSS SECTIONS
9	SUMP DETAILS
10	LINER DETAILS
11	FENCE DETAILS
12	AST LEAK DETECTION

## CONTACTS

TAYLOR SMITH - PILOT WATER SOLUTIONS - (830) 237-9668  
 ENVIROTECH ENGINEERING CONSULTING - MITCHELL RATKE, PE  
 (580)-234-8780 (DESIGN ENGINEER)  
 ENVIROTECH ENGINEERING CONSULTING - DOUG SCHRANTZ, PE  
 (580)-234-8780 (SUPERVISING ENGINEER)



2500 N. Eleventh Street Enid, OK 73701 • 580.234.8780 • envirotechconsulting.com  
 License #29284 - Expiration Date: 12-31-2024

CAUTION  
 NOTICE TO CONTRACTOR

THE CONTRACTOR IS CAUTIONED THE LOCATION AND DEPTH OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE RECORDS OF THE VARIOUS UTILITY COMPANIES AND FIELD MEASUREMENTS. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING PRECISE OR COMPLETE. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY LOCATION CENTER AT LEAST 72

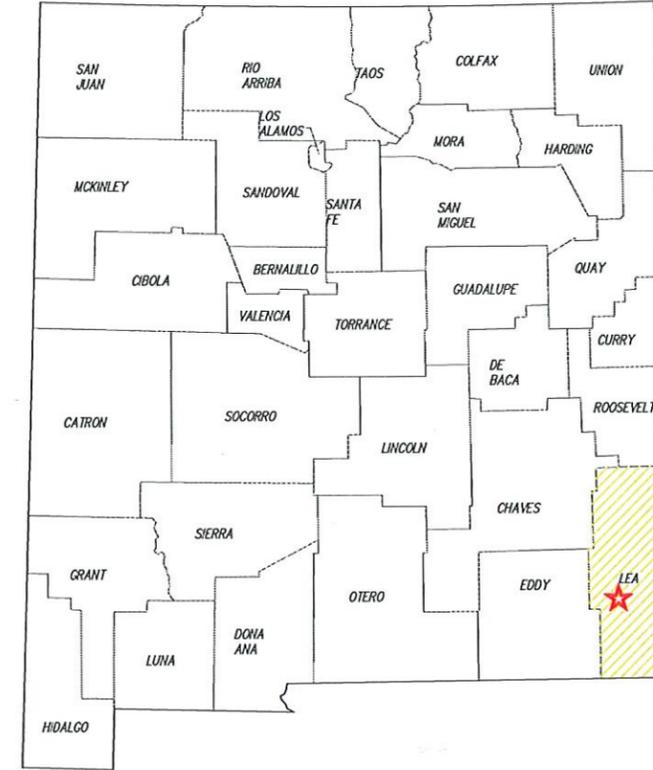


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 • Enid, Oklahoma  
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NO.	DATE	DESCRIPTION

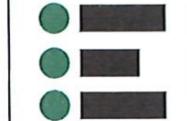
**PILOT WATER SOLUTIONS™**



**PROJECT LOCATION**  
 JANIKOWSKI RECYCLE  
 PILOT WATER SOLUTION  
 SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
 LEA COUNTY, NEW MEXICO



DATE:	MARCH 2024
SCALE:	NOT TO SCALE
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.:	024055-00
SHEET NO.:	2 OF 12



**ENVIROTECH ENGINEERING**  
 2500 North Elvorth Street  
 Fort Collins, CO 80526  
 970.231.8700  
 envirotech-engineering.com  
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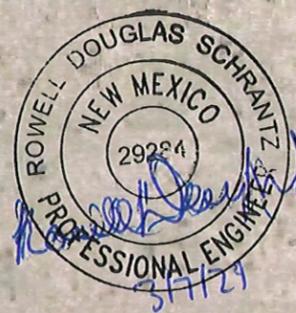
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NO.	DATE	DESCRIPTION

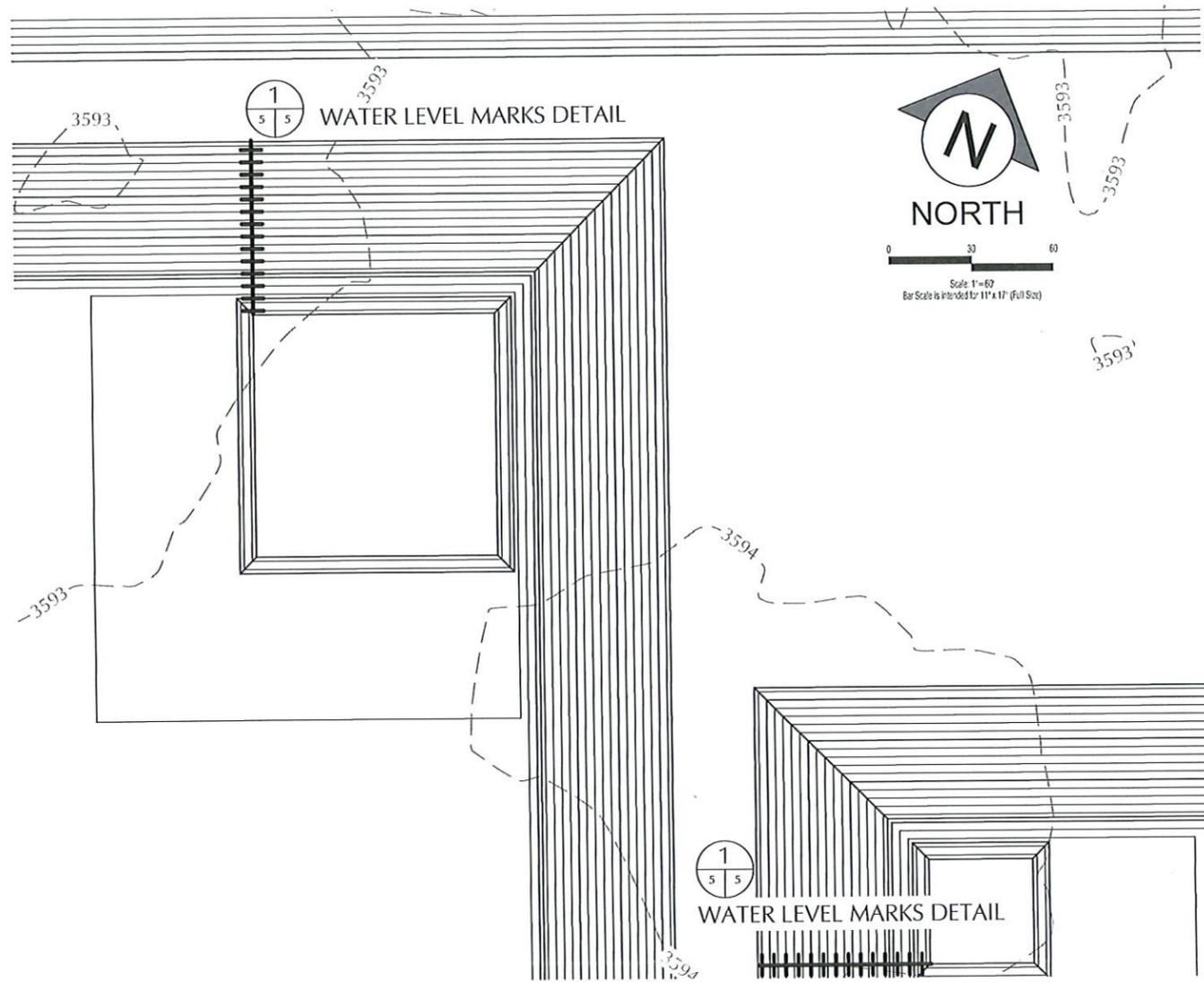
**PILOT WATER SOLUTIONS™**

**EXISTING SITE FEATURES**  
**JANIKOWSKI RECYCLE**  
**PILOT WATER SOLUTION**  
 SECTION 12, TOWNSHIP 20 SOUTH., RANGE 33 EAST  
 LEA COUNTY, NEW MEXICO

DATE:	MARCH 2024
SCALE:	1" = 200'
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.	024055-00
SHEET NO.	3 OF 12







Owner	Pilot Water Solutions		
Site Name	Janikowski Recycle West Storage Pit		
Lagoon Features	Top	Bottom	Max
Side slope Ratio	3		3
Maximum Depth (ft)	21.0		18.0
Lagoon Top Width (ft)	525	429	507
Lagoon Top Length (ft)	525	429	507
Maximum Total Vol (ft <sup>3</sup> )	3,906,867		3,108,124
Maximum Total Vol (bbls)	695,887		553,616

- Freeboard
- Maximum Capacity
- Storage Volume
- Floor
- Sump

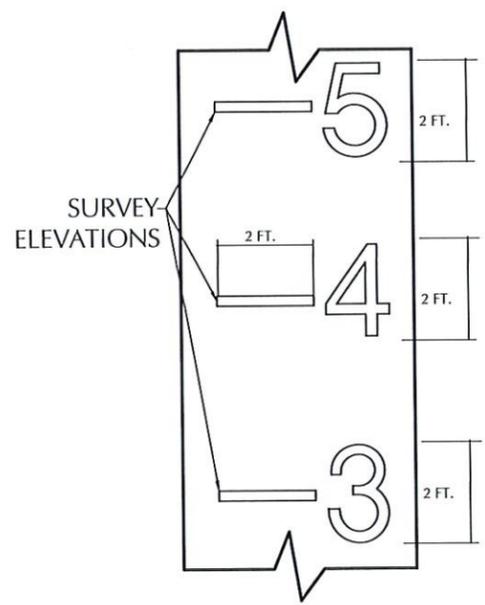
Elevation	Lagoon Liq Depth	Storage	Remaining Stor Vol	Gallons Storage	BBLS Storage	Percent of Total Volume	Vol in lagoon	Gallons Storage	Vol in Lagoon	Vol in Lagoon	Percent Total Vol
ft	ft	ft	ft <sup>3</sup>	gal	bbls	%	ft <sup>3</sup>	gal	bbls	ac-ft	%
3601.50	21.0	0.0	-	-	-	0.0%	3,906,867	29,227,269	695,887	89.69	100%
3600.50	20.0	1.0	272,451	2,038,203	48,529	7.0%	3,634,416	27,189,067	647,359	83.43	93%
3599.50	19.0	2.0	548,674	4,029,819	95,948	13.8%	3,368,193	25,197,451	599,939	77.32	86%
3598.50	18.0	3.0	798,742	5,975,391	142,271	20.4%	3,108,124	23,251,879	553,616	71.35	80%
3597.50	17.0	4.0	1,052,727	7,875,452	187,511	26.9%	2,854,139	21,351,817	508,377	65.52	73%
3596.50	16.0	5.0	1,300,701	9,730,544	231,680	33.3%	2,606,166	19,496,726	464,208	59.83	67%
3595.50	15.0	6.0	1,542,736	11,541,206	274,791	39.5%	2,364,131	17,686,063	421,097	54.27	61%
3594.50	14.0	7.0	1,778,903	13,307,974	316,857	45.5%	2,127,964	15,919,295	379,031	48.85	54%
3593.50	13.0	8.0	2,009,275	15,031,388	357,890	51.4%	1,897,591	14,195,881	337,997	43.56	49%
3592.50	12.0	9.0	2,242,023	16,772,576	399,347	57.4%	1,664,843	12,454,693	296,540	38.22	43%
3591.50	11.0	10.0	2,452,922	18,350,310	436,912	62.8%	1,453,945	10,876,960	258,975	33.38	37%
3590.50	10.0	11.0	2,666,340	19,946,892	474,926	68.2%	1,240,526	9,280,377	220,961	28.48	32%
3589.50	9.0	12.0	2,874,252	21,502,277	511,959	73.6%	1,032,615	7,724,992	183,928	23.71	26%
3588.50	8.0	13.0	3,076,728	23,016,999	548,024	78.8%	830,139	6,210,270	147,864	19.06	21%
3587.50	7.0	14.0	3,273,840	24,491,598	583,133	83.8%	633,026	4,735,671	112,754	14.53	16%
3586.50	6.0	15.0	3,465,662	25,926,615	617,300	88.7%	441,205	3,300,654	78,587	10.13	11%
3585.50	5.0	16.0	3,652,264	27,322,585	650,538	93.5%	254,603	1,904,685	45,350	5.84	7%
3584.50	4.0	17.0	3,793,248	28,377,287	675,650	97.1%	113,619	849,983	20,238	2.61	3%
3583.50	3.0	18.0	3,864,201	28,908,086	688,288	98.9%	42,666	319,184	7,600	0.98	1%
3582.50	2.0	19.0	3,889,173	29,094,903	692,736	99.5%	17,694	132,367	3,152	0.41	0%
3581.50	1.0	20.0	3,898,584	29,165,306	694,412	99.8%	8,283	61,963	1,475	0.19	0%
3580.50	0.0	21.0	3,906,867	29,227,269	695,887	100.0%	-	-	-	-	0%

Owner	Pilot Water Solutions		
Site Name	Janikowski Recycle East Storage Pit		
Lagoon Features	Top	Bottom	Max
Side slope Ratio	3		3
Maximum Depth (ft)	21.0		18.0
Lagoon Top Width (ft)	475	379	457
Lagoon Top Length (ft)	325	229	307
Maximum Total Vol (ft <sup>3</sup> )	2,012,870		1,571,080
Maximum Total Vol (bbls)	358,530		279,839

- Freeboard
- Maximum Capacity
- Storage Volume
- Floor
- Sump



Elevation	Lagoon Liq Depth	Storage	Remaining Stor Vol	Gallons Storage	BBLS Storage	Percent of Total Volume	Vol in lagoon	Gallons Storage	Vol in Lagoon	Vol in Lagoon	Percent Total Vol
ft	ft	ft	ft <sup>3</sup>	gal	bbls	%	ft <sup>3</sup>	gal	bbls	ac-ft	%
3601.50	21.0	0.0	-	-	-	0.0%	2,012,870	15,058,279	358,530	46.21	100%
3600.50	20.0	1.0	151,966	1,136,861	27,068	7.5%	1,860,903	13,921,418	331,462	42.72	92%
3599.50	19.0	2.0	299,206	2,238,359	53,294	14.9%	1,713,664	12,819,920	305,236	39.34	85%
3598.50	18.0	3.0	441,790	3,305,029	78,691	21.9%	1,571,080	11,753,250	279,839	36.07	78%
3597.50	17.0	4.0	579,790	4,337,412	103,272	28.8%	1,433,079	10,720,867	255,259	32.90	71%
3596.50	16.0	5.0	713,279	5,336,044	127,049	35.4%	1,299,590	9,722,235	231,482	29.83	65%
3595.50	15.0	6.0	842,329	6,301,465	150,035	41.8%	1,170,541	8,756,814	208,496	26.87	58%
3594.50	14.0	7.0	967,012	7,234,213	172,243	48.0%	1,045,858	7,824,066	186,287	24.01	52%
3593.50	13.0	8.0	1,087,398	8,134,828	193,686	54.0%	925,471	6,923,451	164,844	21.25	46%
3592.50	12.0	9.0	1,203,562	9,003,847	214,377	59.8%	809,308	6,054,432	144,153	18.58	40%
3591.50	11.0	10.0	1,315,574	9,841,810	234,329	65.4%	697,296	5,216,469	124,202	16.01	35%
3590.50	10.0	11.0	1,423,506	10,649,252	253,554	70.7%	589,363	4,409,027	104,977	13.53	29%
3589.50	9.0	12.0	1,527,432	11,426,717	272,065	75.9%	485,438	3,631,562	86,466	11.14	24%
3588.50	8.0	13.0	1,627,421	12,174,739	289,875	80.9%	385,449	2,883,540	68,656	8.85	19%
3587.50	7.0	14.0	1,723,548	12,893,860	306,997	85.6%	289,322	2,164,419	51,534	6.64	14%
3586.50	6.0	15.0	1,815,882	13,584,615	323,443	90.2%	196,988	1,473,664	35,087	4.52	10%
3585.50	5.0	16.0	1,904,497	14,247,545	339,227	94.6%	108,372	810,734	19,303	2.49	5%
3584.50	4.0	17.0	1,969,597	14,734,555	350,823	97.9%	43,273	323,724	7,708	0.99	2%
3583.50	3.0	18.0	2,000,061	14,962,457	356,249	99.4%	12,809	95,822	2,281	0.29	1%
3582.50	2.0	19.0	2,008,974	15,029,136	357,837	99.8%	3,896	29,143	694	0.09	0%
3581.50	1.0	20.0	2,011,186	15,045,683	358,231	99.9%	1,684	12,596	300	0.04	0%
3580.50	0.0	21.0	2,012,870	15,058,279	358,530	100.0%	-	-	-	-	0%



NOTE:  
 1. LEVEL MARKS TO BE LOCATED BY SURVEYOR UNLESS SPECIFIED BY OWNER  
 2. MARKS TO BE MADE BY AN EXTRUSION WELDER USING BLACK FILAMENT (OR WHITE FILAMENT ON BLACK LINER).  
 3. MARKS SHOULD BEGIN AT THE TOP OF BERM AND CONTINUE TO THE BOTTOM OF THE SUMP. (TOP OF BERM SHOULD READ 21-FT, BOTTOM OF SUMP +1-FT SHOULD READ 1-FT)  
 4. REFERENCE PIT CAPACITY TABLES FOR ACCURATE ELEVATIONS

WATER LEVEL MARKS DETAIL  
 NOT TO SCALE

**ENVIROTECH ENGINEERING**  
 2500 North Kuykendall Street  
 East, Oklahoma  
 500.234.8700  
 envirotech@eng.com  
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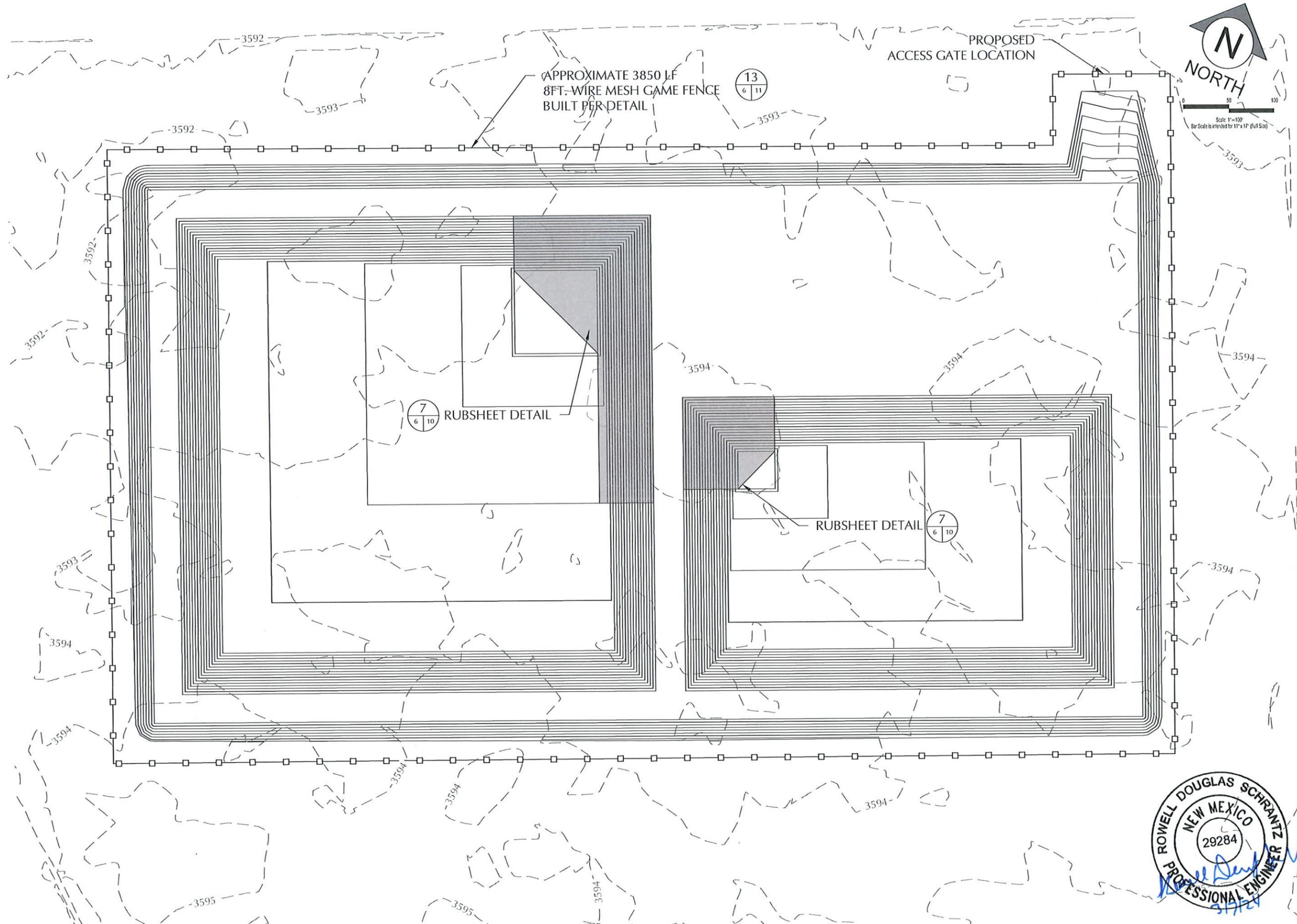
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NO.	DATE	DESCRIPTION

**PIT CAPACITIES**  
 JANIKOWSKI RECYCLE  
 PILOT WATER SOLUTION  
 SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
 LEA COUNTY, NEW MEXICO

DATE: MARCH 2024  
 SCALE: 1" = 60'  
 DESIGNED BY: M. RATKE  
 DRAWN BY: K. TALBOTT  
 CHECKED BY: D. SCHRANTZ  
 PROJECT NO. 024055-00  
 SHEET NO. 5 OF 12



Scale 1"=100'  
Bar Scale is intended for 11" x 17" (Full Size)



**ENVIROTECH  
ENGINEERING**  
2500 15th Avenue Street  
Tulsa, Oklahoma  
500.223.8700  
envirotech-engineering.com

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NO.	DATE	DESCRIPTION

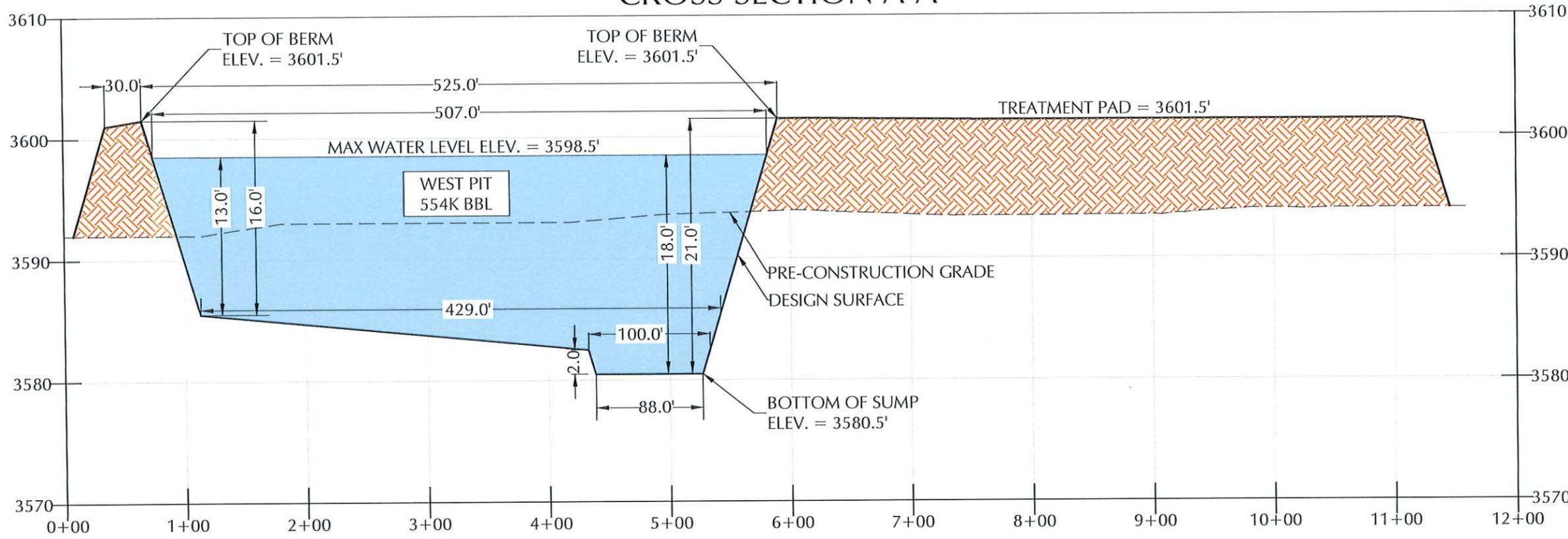
**PILOT WATER  
SOLUTIONS™**

**RUB SHEET & FENCE PLAN**  
JANIKOWSKI RECYCLE  
PILOT WATER SOLUTION  
SECTION 12, TOWNSHIP 20 SOUTH., RANGE 33 EAST  
LEA COUNTY, NEW MEXICO

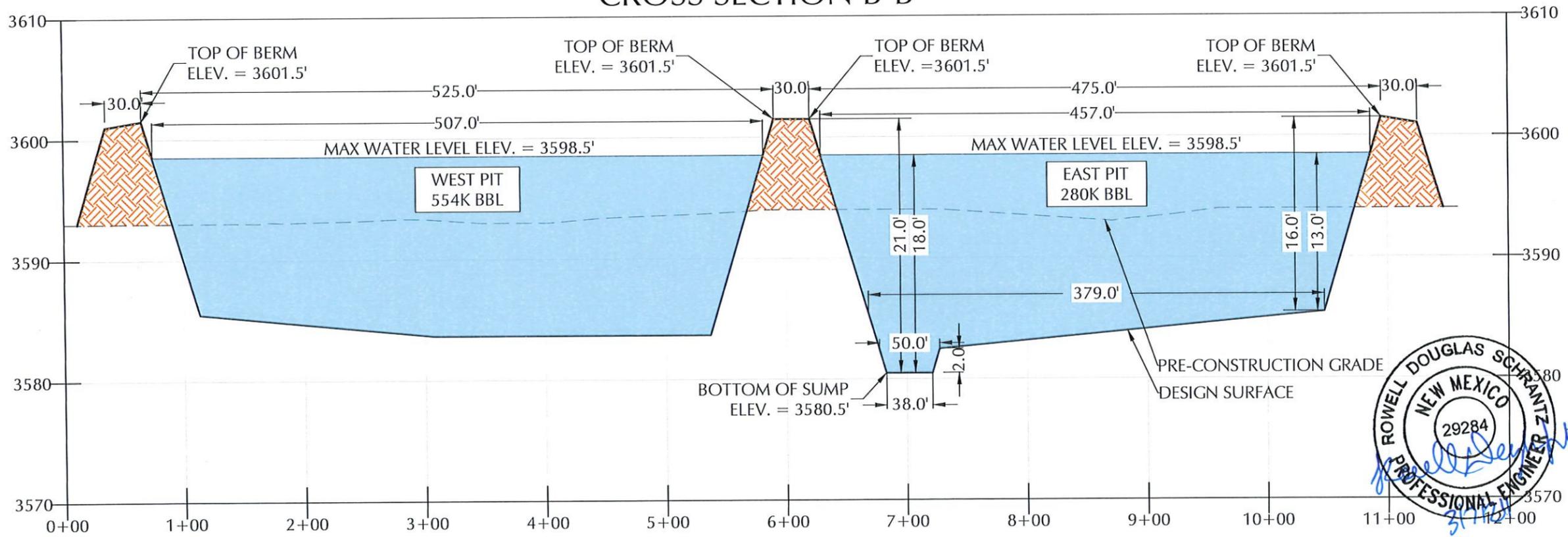


DATE:	MARCH 2024
SCALE:	1" = 100'
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.	024055-00
SHEET NO.	6 OF 12

### CROSS SECTION A-A



### CROSS SECTION B-B



**ENVIROTECH ENGINEERING**  
 2500 North Nevada Street  
 Las Vegas, NV 89128  
 702.214.8700  
 envirotecheng.com  
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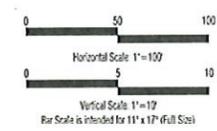
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NO.	DATE	DESCRIPTION

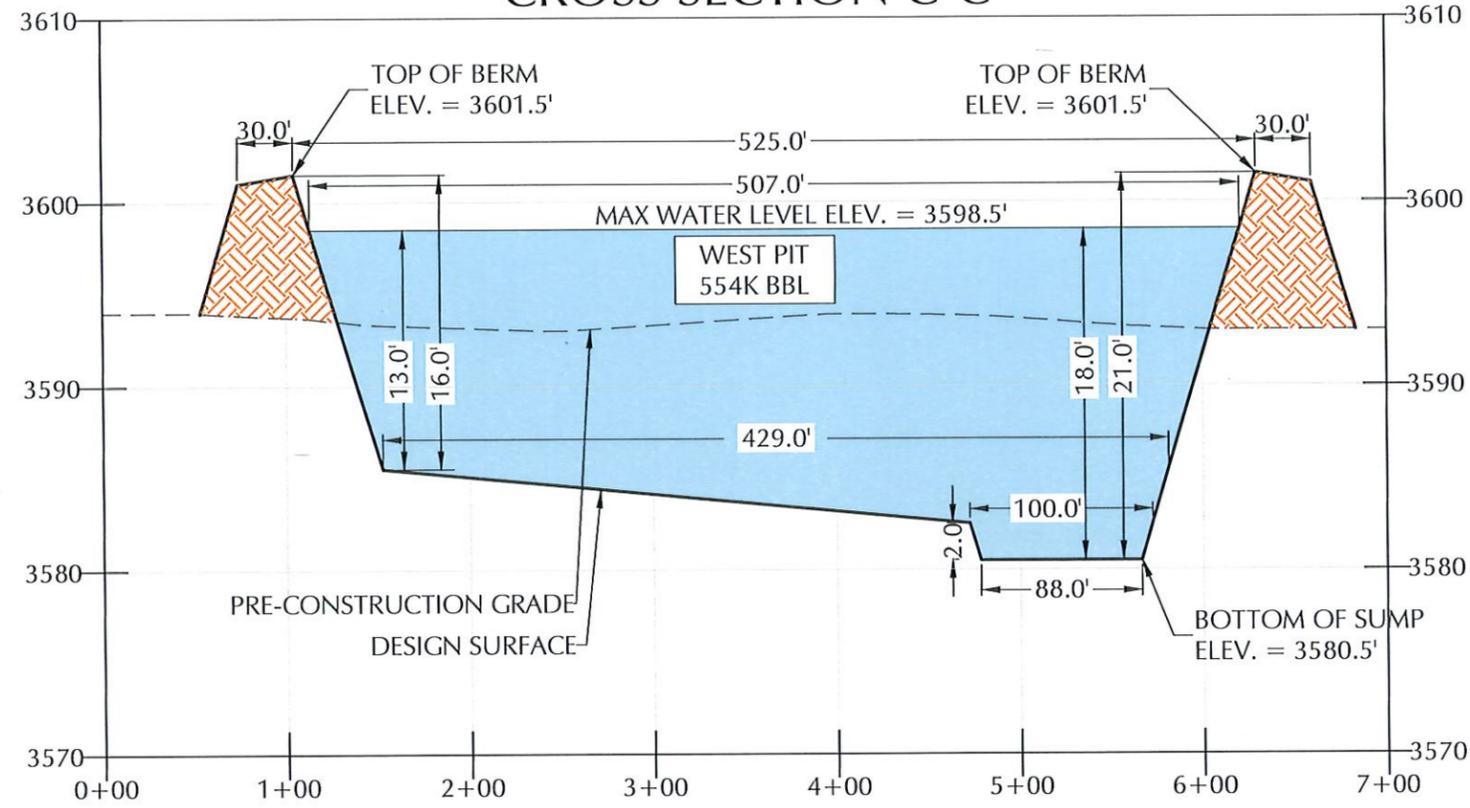


CROSS SECTIONS  
 JANIKOWSKI RECYCLE  
 PILOT WATER SOLUTION  
 SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
 LEA COUNTY, NEW MEXICO

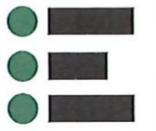
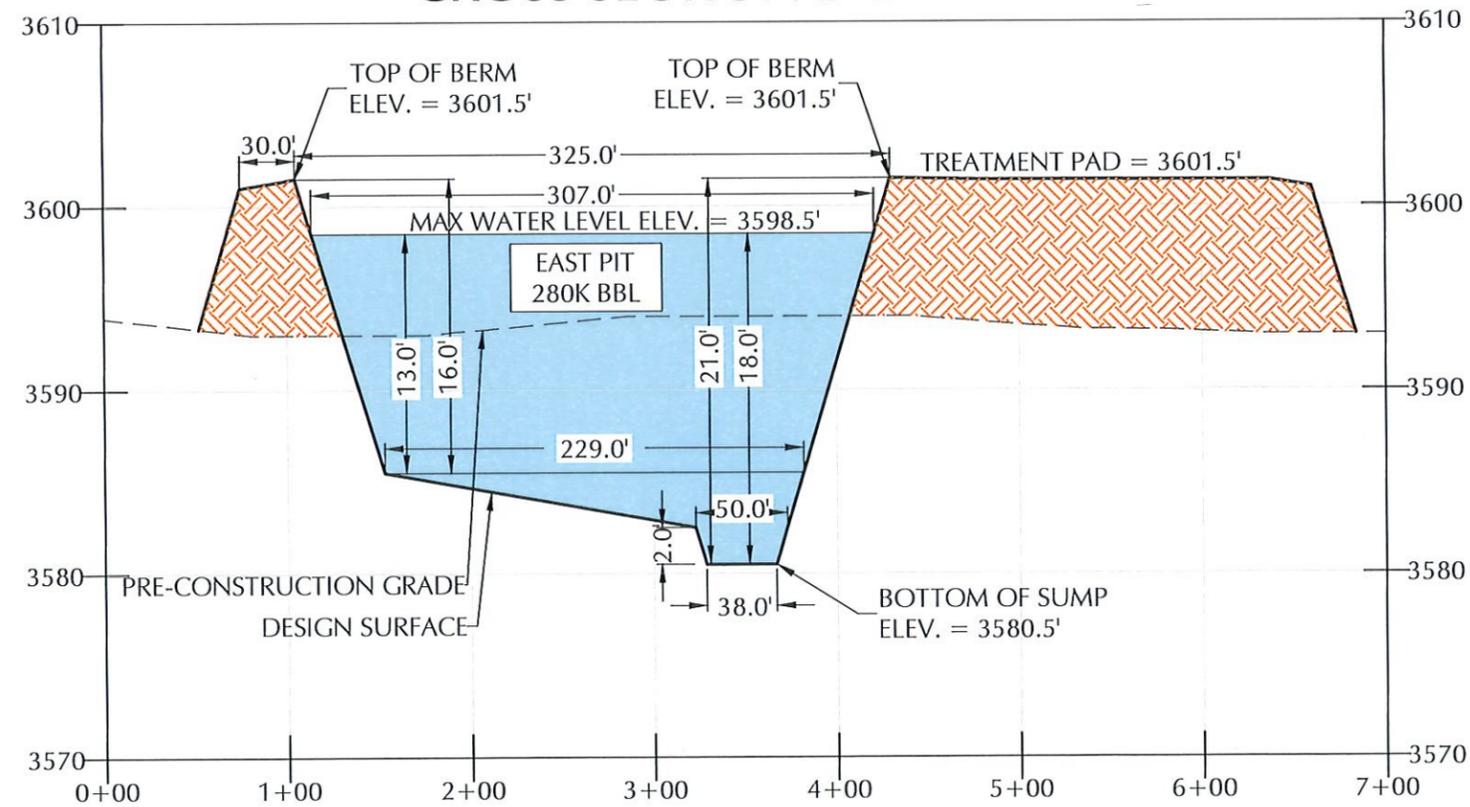
DATE:	MARCH 2024
SCALE:	HORIZONTAL = 100' VERTICAL = 10'
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.:	024055-00
SHEET NO.:	7 OF 12



### CROSS SECTION C-C



### CROSS SECTION D-D



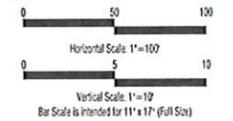
**ENVIROTECH ENGINEERING**  
 2500 North Lovell Street  
 Fort, Oklahoma  
 73114-8700  
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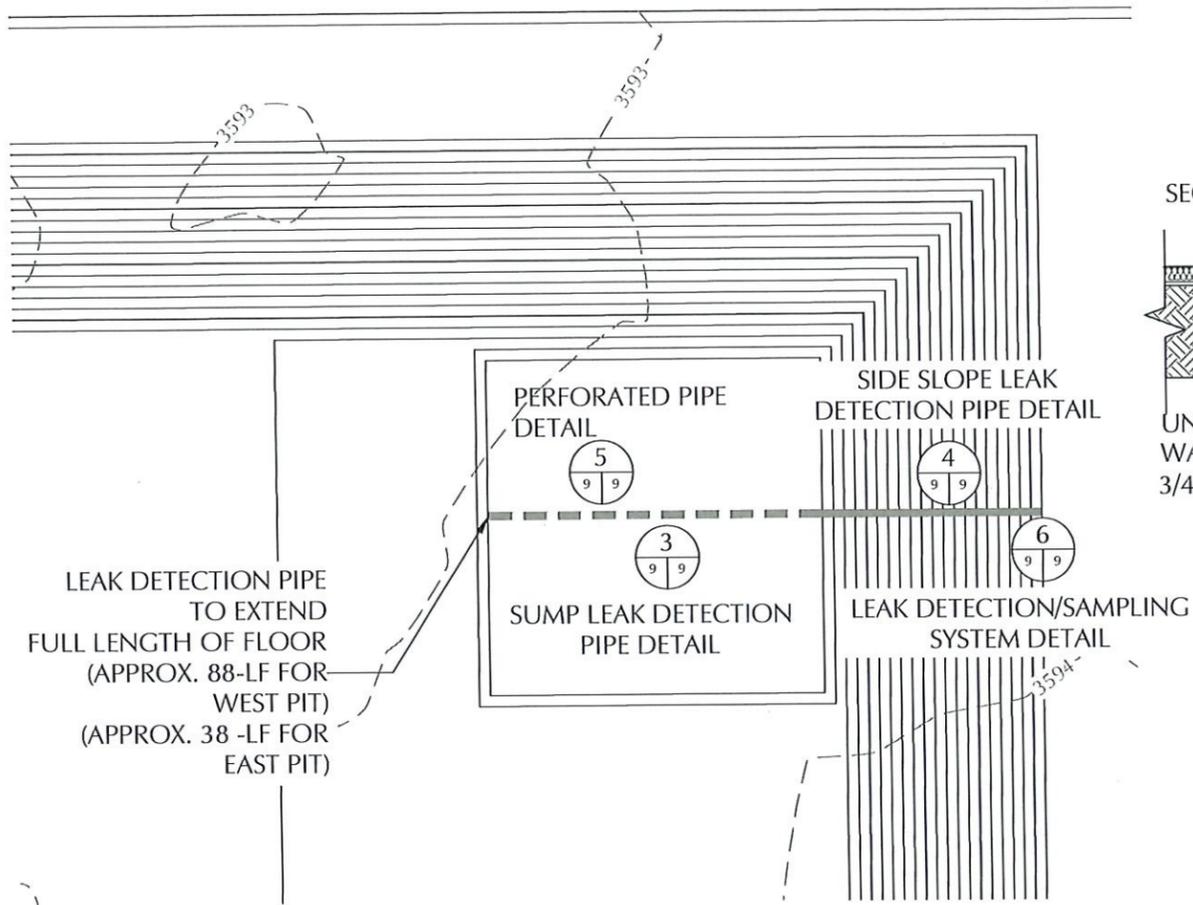
NO.	DATE	DESCRIPTION



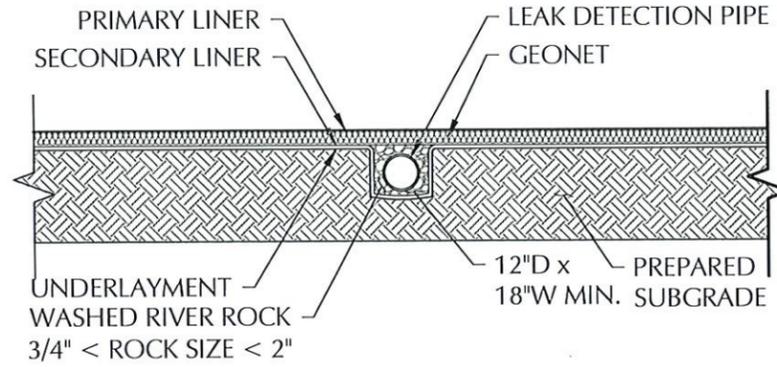
CROSS SECTIONS  
 JANIKOWSKI RECYCLE  
 PILOT WATER SOLUTION  
 SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
 LEA COUNTY, NEW MEXICO



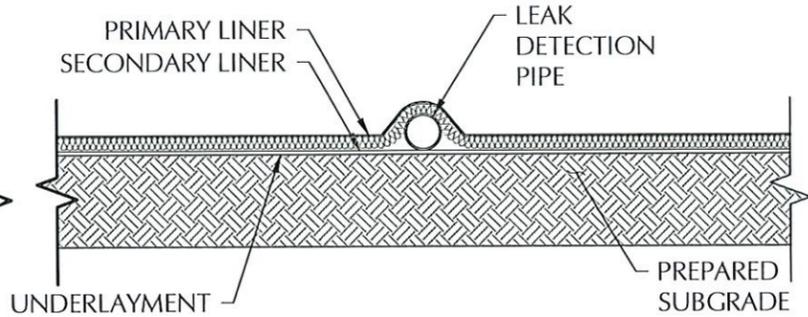
DATE:	MARCH 2024
SCALE:	HORIZONTAL = 100' VERTICAL = 10'
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.:	024055-00
SHEET NO.:	8 OF 12



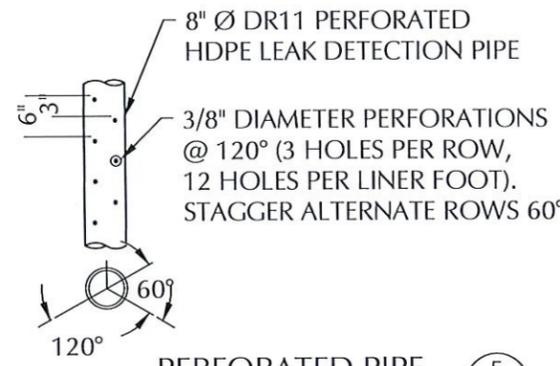
**SUMP OVERVIEW DETAIL** (2/49)  
NOT TO SCALE



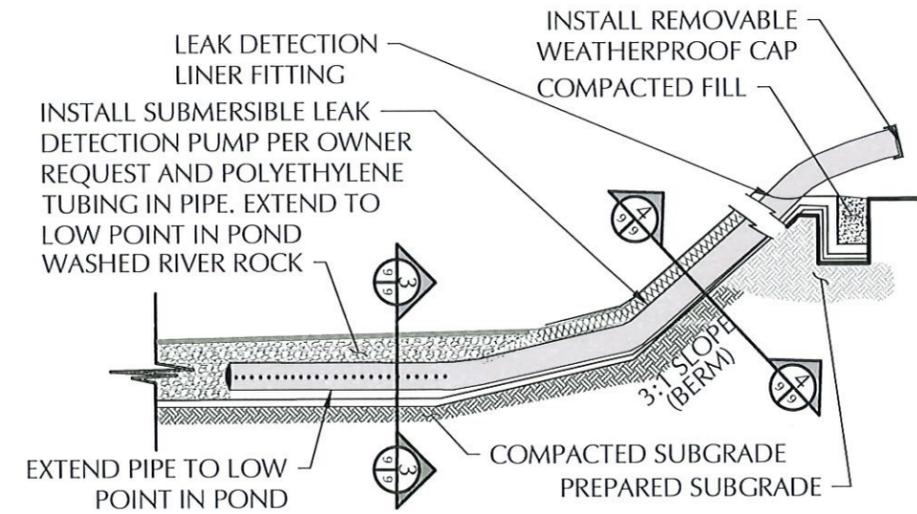
**SUMP LEAK DETECTION PIPE DETAIL** (3/99)  
NOT TO SCALE



**SIDE SLOPE LEAK DETECTION PIPE DETAIL** (4/99)  
NOT TO SCALE



**PERFORATED PIPE DETAIL** (5/99)  
NOT TO SCALE



**LEAK DETECTION/SAMPLING SYSTEM DETAIL** (6/99)  
NOT TO SCALE

PROPOSED PIT REFERENCE TABLE	
DETAIL	DESCRIPTION
PRIMARY LINER	60- MIL HDPE SMOOTH LINER
LEAK DETECTION	200-MIL GEONET
SECONDARY LINER	40-MIL HDPE SMOOTH LINER
UNDERLAYMENT	10 OZ GEOTEXTILE
SUMP	3580.50-FT ELEVATION
BERM (ROAD CREST)	DESIGN ELEV. 3601.50 FT- RD CREST VARIES (30-FT)
LEAK DETECTION PIPING	8-IN DR11. PERFORATED HDPE LEAK DETECTION PIPE

- NOTES:
- LEAK DETECTION SYSTEM TO BE INSTALLED BY OWNER.
  - PERFORATED PIPE TO BE ALONG THE BOTTOM OF THE POND. SOLID PIPE ON THE SIDE SLOPE.
  - CONSTRUCT COMPACTED SUBGRADE TO 95% STANDARD PROCTOR AS PER ASTM D-698.
  - WASH RIVER ROCK SHALL BE 3/4" MIN. & 2" MAX.



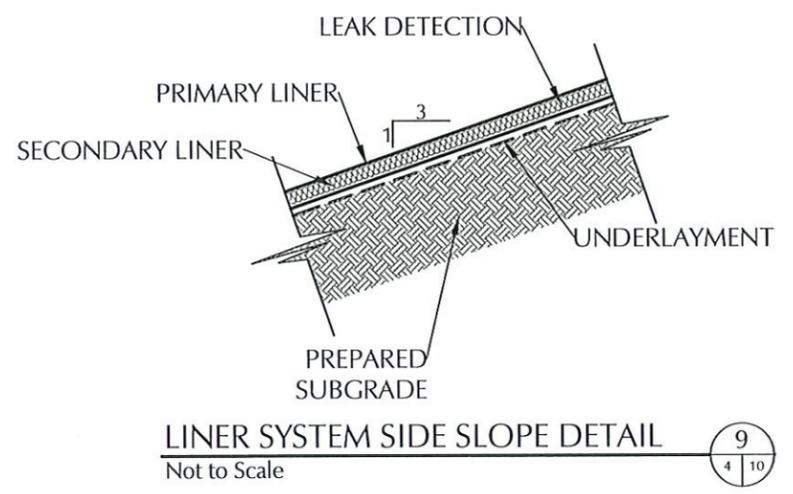
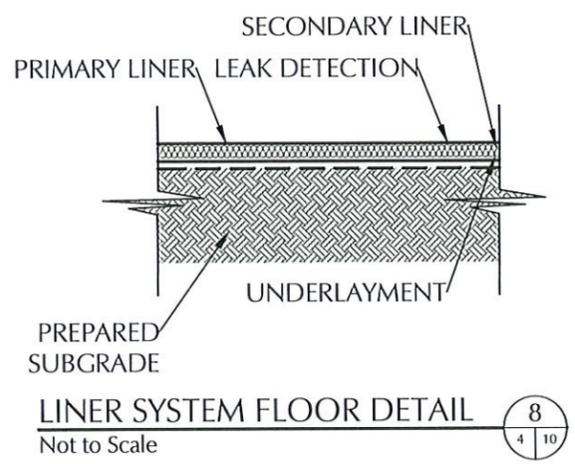
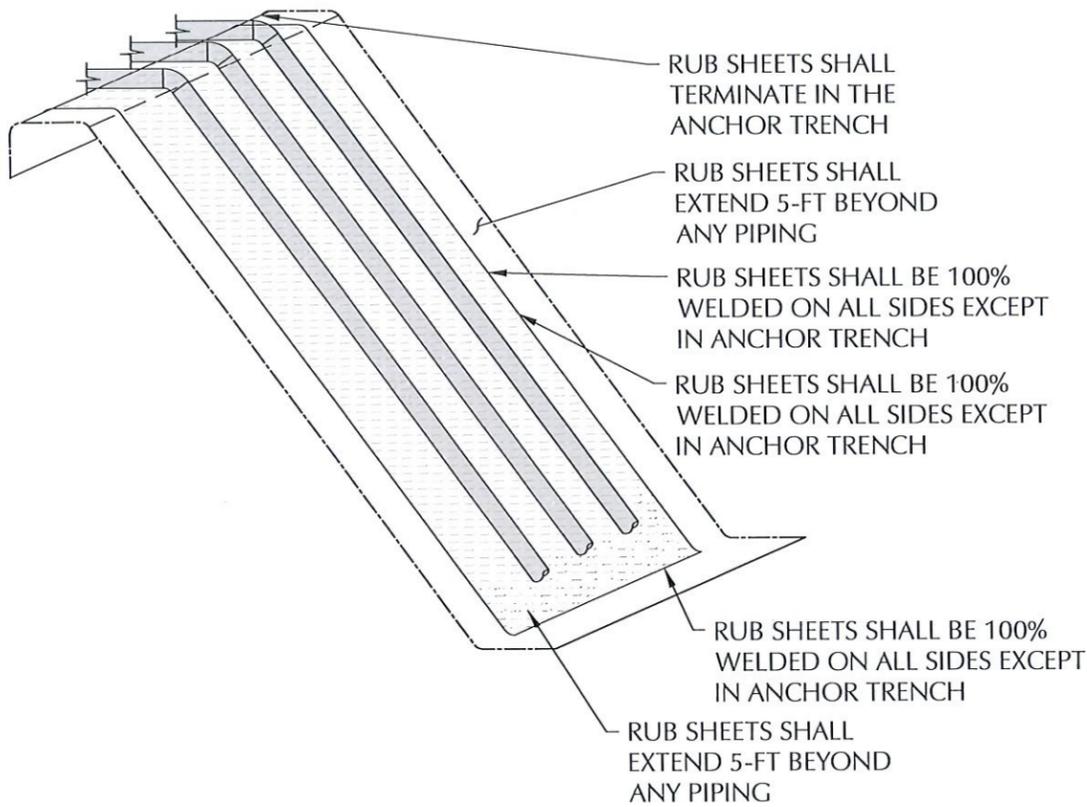
**ENVIROTECH ENGINEERING**  
2500 North Kuykendall Street  
Leak, Oklahoma  
500 234-8700  
e@envirotech-engineering.com  
P.E. #29284 - Expiration Date: 12-31-2024

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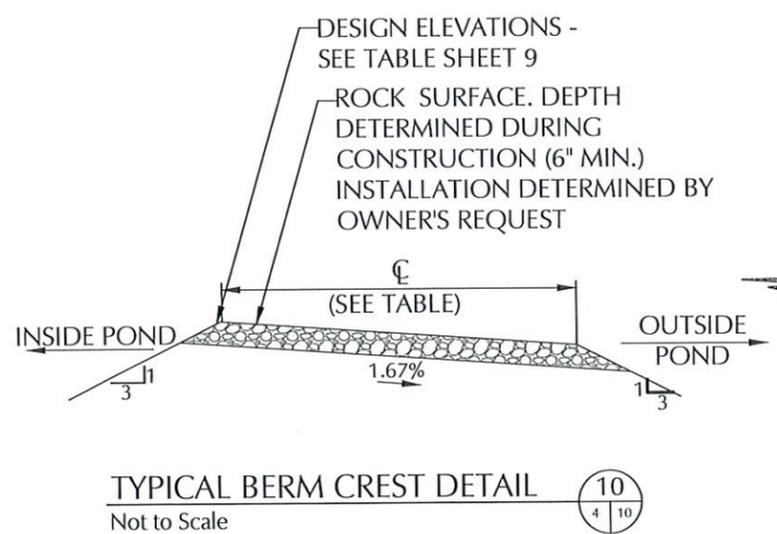
**PILOT WATER SOLUTIONS**

**SUMP DETAILS**  
JANIKOWSKI RECYCLE  
PILOT WATER SOLUTION  
SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
LEA COUNTY, NEW MEXICO

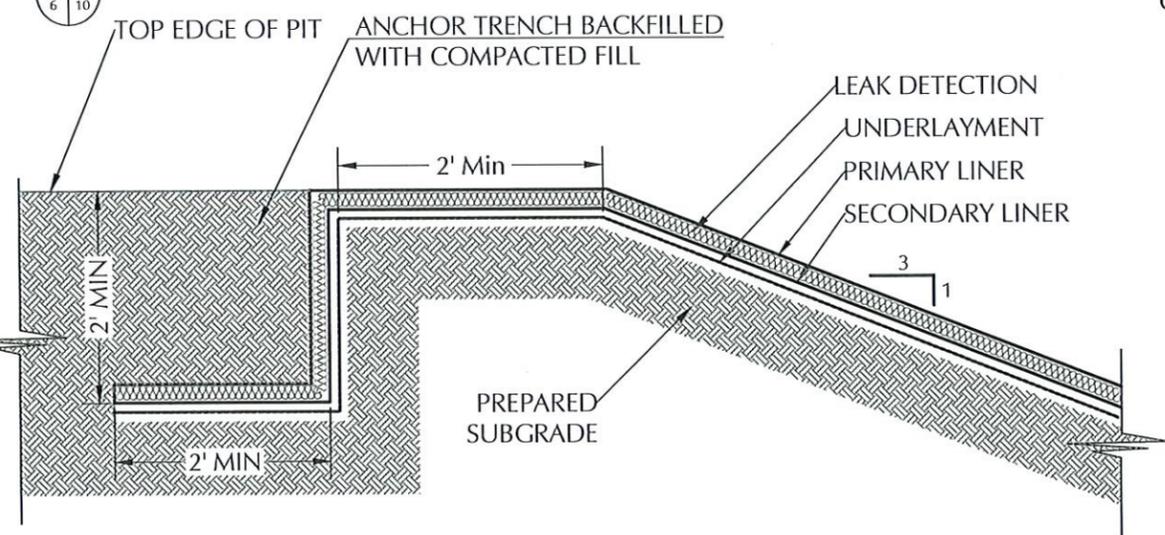
DATE: MARCH 2024  
SCALE: NOT TO SCALE  
DESIGNED BY: M. RATKE  
DRAWN BY: K. TALBOTT  
CHECKED BY: D. SCHRANTZ  
PROJECT NO. 024055-00  
SHEET NO. 9 OF 12



**RUB SHEET DETAIL**  
NOT TO SCALE



**TYPICAL BERM CREST DETAIL**  
Not to Scale



**ANCHOR TRENCH DETAIL**  
Not to Scale

**GENERAL NOTES:**

1. SEE REFERENCE TABLES SHEET 9 FOR LINER SPECIFICATIONS
2. PREPARED SUBGRADE MEANS COMPACTED SMOOTH SUBGRADE FREE OF ROCK, ROOTS, WOOD DEBRIS, CONCRETE RUBBLE AND ANY SHARP OBJECTS THAT MIGHT PUNCTURE THE HDPE LINER.
3. ALL INTERIOR SLOPES AND TOP OF BERMS TO BE SMOOTH DRUM ROLLED.
4. ALL EMBANKMENT SLOPES SHALL HAVE A RATIO OF 3:1, COMPACTED EARTH EMBANKMENTS TO BE CONSTRUCTED WITH 8 INCH (MAXIMUM LOOSE LIFTS), COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698), AND MOISTURE CONDITIONS TO +/- 2% OPTIMUM MOISTURE (ASTM D698)
5. PERFORM GEOTECHNICAL ANALYSIS ON EXISTING SOIL TO CONFIRM SOIL IS SUITABLE FOR USE IN THE LEVEE.
6. ALL BOTTOM OF PITS SHALL SLOPE TO THE SUMP.



**ENVIROTECH ENGINEERING**  
2500 North Keweenaw Street  
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envirotechengineering.com  
P.E. #29284 - Expires 12-31-2024

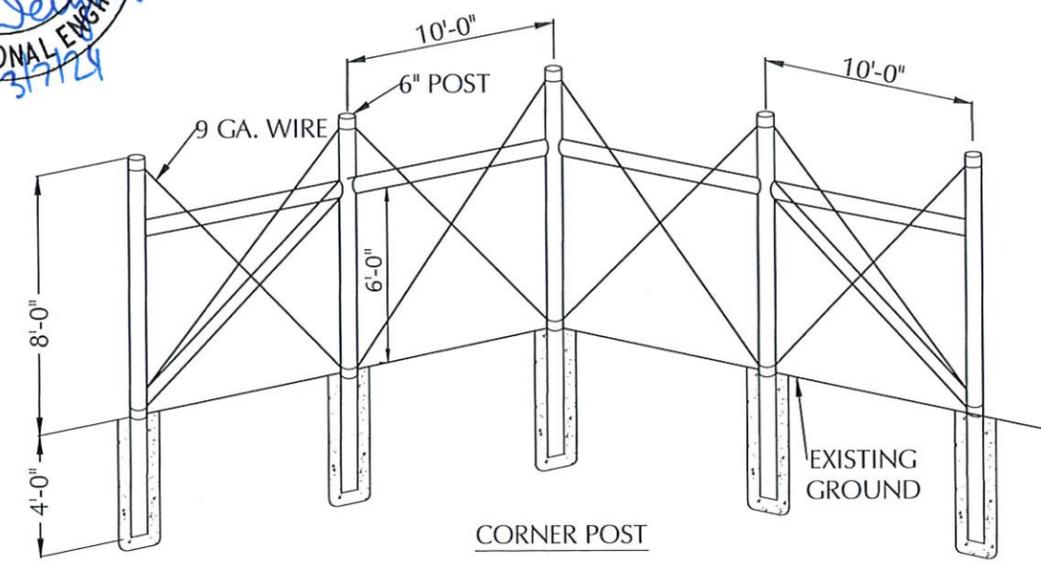
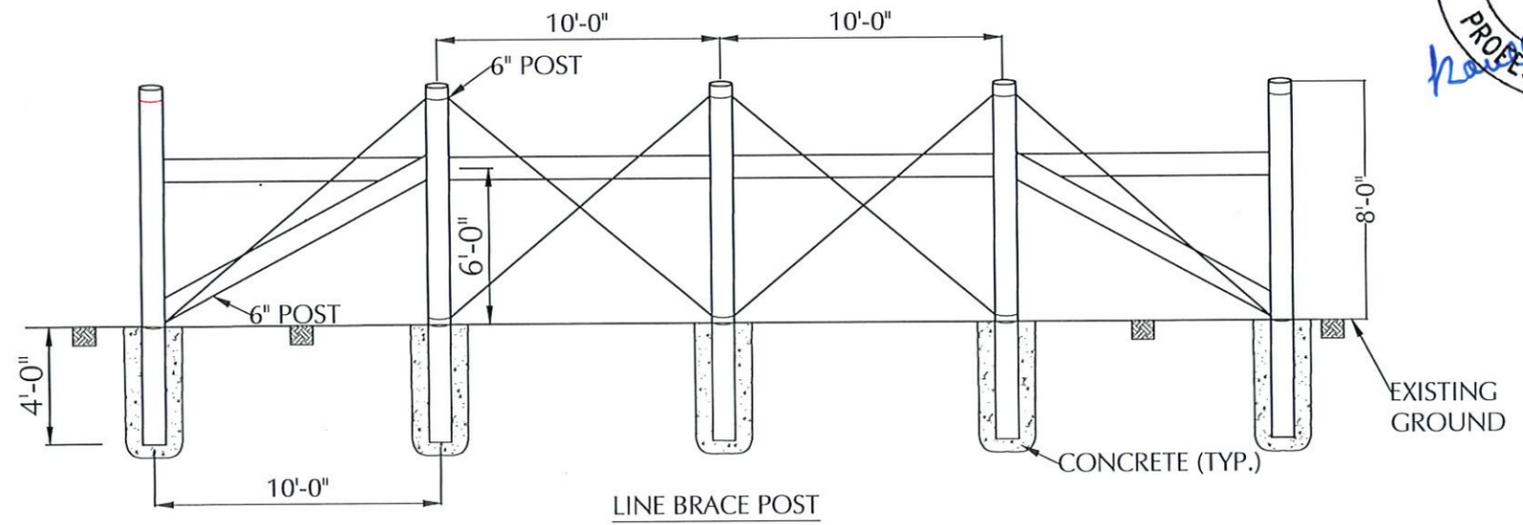
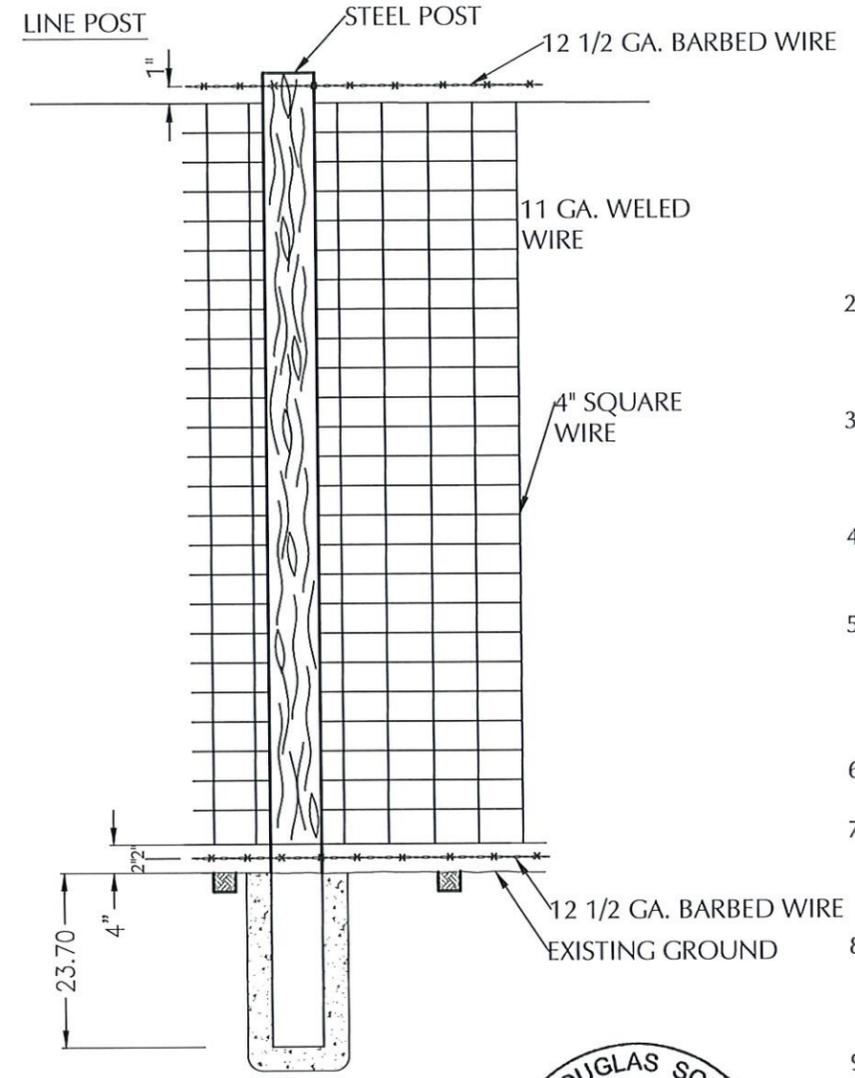
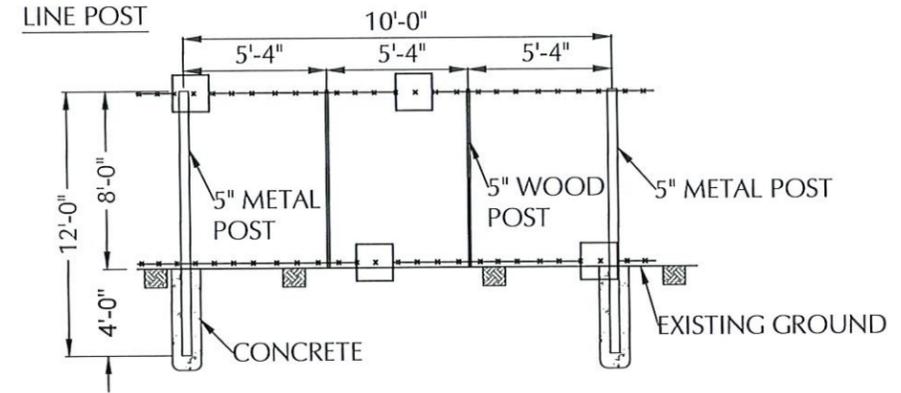
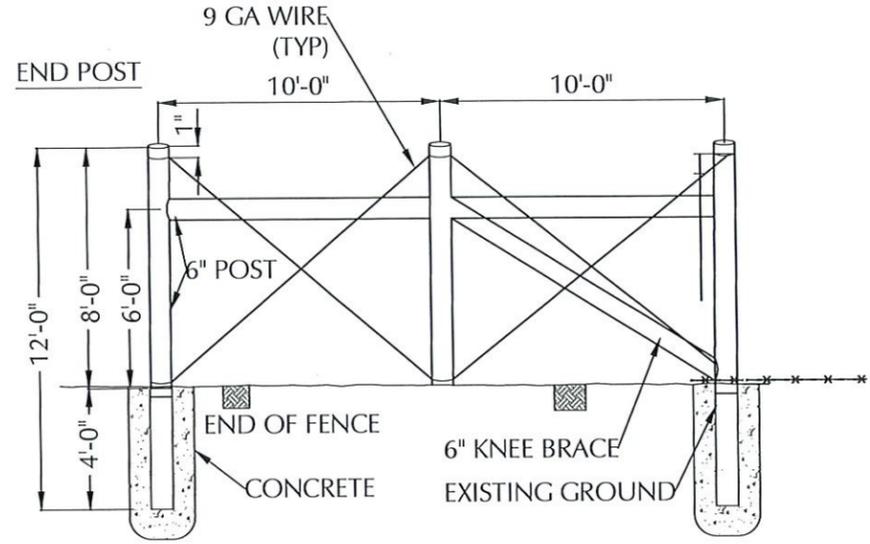
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NO.	DATE	DESCRIPTION

**PILOT WATER SOLUTIONS**

**LINER DETAILS**  
JANIKOWSKI RECYCLE  
PILOT WATER SOLUTION  
SECTION 12, TOWNSHIP 20 SOUTH., RANGE 33 EAST  
LEA COUNTY, NEW MEXICO

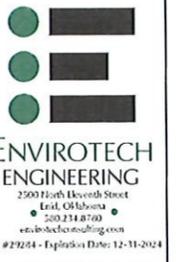
DATE:	MARCH 2024
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DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.	024055-00
SHEET NO.	10 OF 12



1. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A BARRIER FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE- THE GROUND ROD SHALL BE A MINIMUM DIAMETER OF 1/2-IN. AND 8-FT. IN LENGTH, AND DRIVEN AT LEAST 7 1/2 FT. INTO THE GROUND. THE ROD SHALL BE CONNECTED TO EACH WIRE WITH A MINIMUM AWG NO. 8 STRANDED COPPER WIRE. GROUNDING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
2. LINE BRACE POSTS SHALL BE SPACED AT 400 FT. INTERVALS, WHERE FENCING IS CONTINUOUS AND WHERE END, CORNER AND LINE BRACE POSTS ARE NOT SPECIFIED.
3. ALL LINE POSTS SHALL BE 5 IN. MIN. DIAMETER AND 12 FT. LONG. ALL END, CORNER AND LINE BRACE POSTS SHALL BE 6 IN. MIN. DIAMETER AND 12 FT. LONG.
4. BARBED WIRE SHALL BE DOUBLE WRAPPED AND TIED OFF AT END POSTS, CORNER POSTS AND LINE BRACE POSTS.
5. WOVEN WIRE SHALL BE SINGLE WRAPPED AND TIED OFF. FENCE TO BE CONTINUED, SHALL BE RESTARTED IN LIKE MANNER. WOVEN WIRE FENCE FABRIC SHALL CONFORM TO AASHTO M 279 (ASTM A 116) DESIGN NO. 1047-6-11 WITH CLASS I COATING.
6. STEEL BARBED WIRE SHALL CONFORM TO AASHTO M 200 (ASTM A 121) 12-1/2 GAGE WITH CLASS 1 COATING.
7. ALL FENCE WIRE TIES, BRACE WIRES, STAPLES AND OTHER WIRE APPURTENANCES SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 232.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING DISTURBED OR DESTROYED SURVEY MONUMENTS TO THE APPROPRIATE ACCURACY.
9. ALL MISCELLANEOUS HARDWARE SHALL BE FURNISHED GALVANIZED OR ALUMINUM COATED. ALL METAL PIPE POSTS SHALL BE CAPPED.
10. READY MIX CONCRETE MAY BE USED AS A SUBSTITUTE FOR CLASS "A" CONCRETE FOR THE CONCRETE FOOTING IF APPROVED BY THE ENGINEER.



8-FT GAME FENCE DETAIL 13  
Not to Scale 6 11



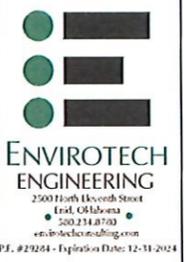
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NO.	DATE	DESCRIPTION



FENCE DETAILS  
JANIKOWSKI RECYCLE  
PILOT WATER SOLUTION  
SECTION 12. TOWNSHIP 20 SOUTH, RANGE 33 EAST  
LEA COUNTY, NEW MEXICO

DATE: MARCH 2024  
SCALE: NOT TO SCALE  
DESIGNED BY: M. RATKE  
DRAWN BY: K. TALBOTT  
CHECKED BY: D. SCHRANTZ  
PROJECT NO. 024055-00  
SHEET NO. 11 OF 12



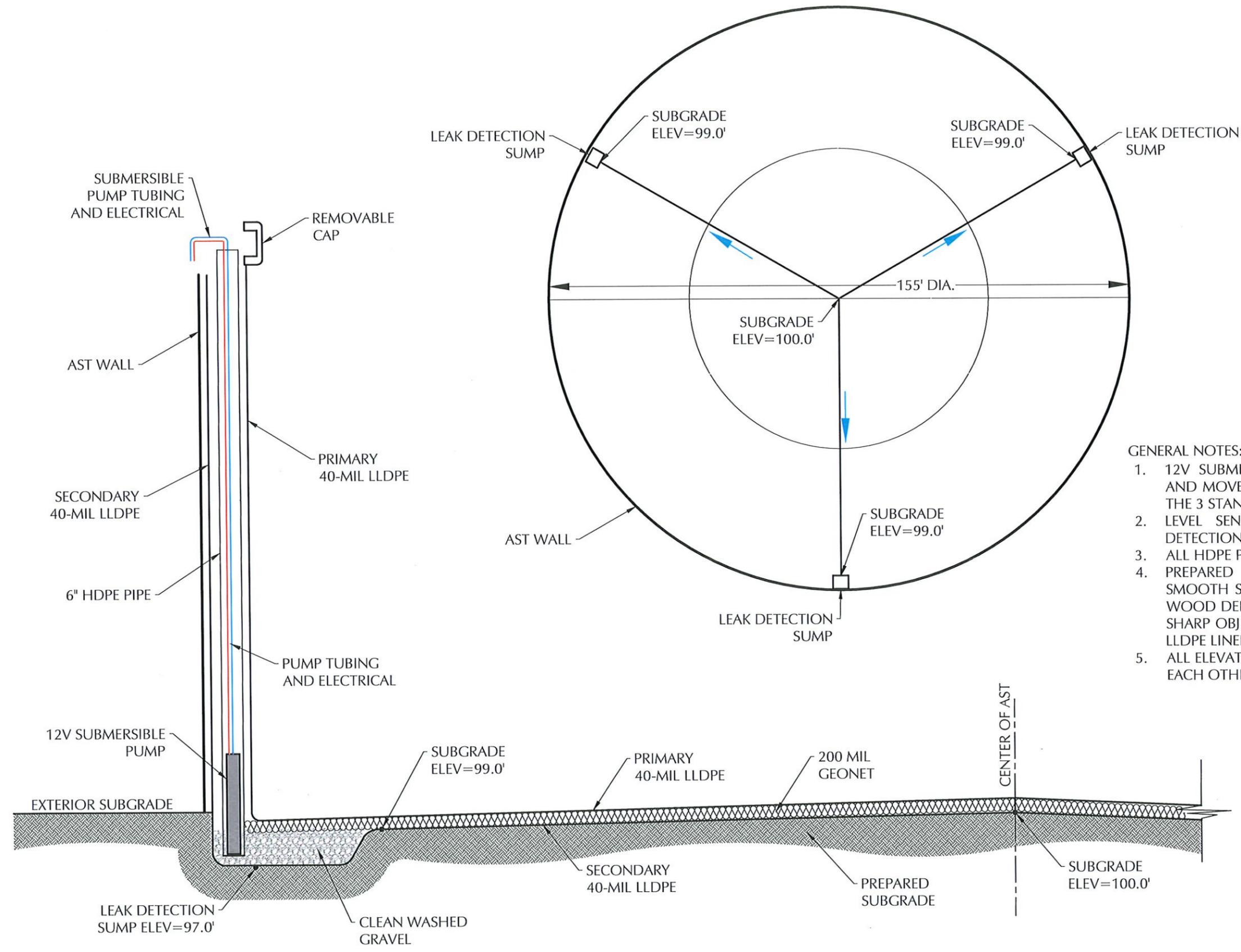
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NO.	DATE	DESCRIPTION



**AST LEAK DETECTION**  
JANIKOWSKI RECYCLE  
PILOT WATER SOLUTION  
SECTION 12, TOWNSHIP 20 SOUTH, RANGE 33 EAST  
LEA COUNTY, NEW MEXICO

DATE:	MARCH 2024
SCALE:	NOT TO SCALE
DESIGNED BY:	M. RATKE
DRAWN BY:	K. TALBOTT
CHECKED BY:	D. SCHRANTZ
PROJECT NO.:	024055-00
SHEET NO.:	12 OF 12



**GENERAL NOTES:**

- 12V SUBMERSIBLE PUMP SHALL BE MOBILE AND MOVED AS NEEDED BETWEEN EACH OF THE 3 STANDPIPES AS NEEDED
- LEVEL SENSOR PROBE IN 1 OF 3 LEAK DETECTION PIPES
- ALL HDPE PIPING SHALL BE SDR 17
- PREPARED SUBGRADE MEANS COMPACTED SMOOTH SUBGRADE FREE OF ROCK, ROOTS, WOOD DEBRIS, CONCRETE RUBBLE AND ANY SHARP OBJECTS THAT MIGHT PUNCTURE THE LLDPE LINER.
- ALL ELEVATIONS SHOWN ARE RELATIVE TO EACH OTHER BUT ARBITRARY IN NATURE.



AST LEAK DETECTION SYSTEM DETAIL 12  
NOT TO SCALE 4/10

## Pilot Water Solutions Janikowski Recycle Facility Closure Cost Estimate

Item	Units	Quantity	\$/Unit	Estimate Cost
<b>Facility Closure</b>				
<b>1 Fluid removal</b>				
Janikowski East Recycle Containment (286K bbls)	bbls	286,340	\$ 0.50	\$ 143,170.00
Janikowski West Recycle Containment (554K bbls)	bbls	553,616	\$ 0.50	\$ 276,808.00
Janikowski East Recycle AST	bbls	40,000	\$ 0.50	\$ 20,000.00
Janikowski West Recycle AST	bbls	40,000	\$ 0.50	\$ 20,000.00
<b>2 Vac truck (final fluid removal)</b>				
	hrs	20	\$ 125.00	\$ 2,500.00
<b>3 Liner removal (fold-in-place)</b>				
Covers removal and disposal	SF	1,897,700	\$ 0.18	\$ 341,586.00
<b>4 Equipment removal</b>				
Containment clean-out and residue haul-off	LS	1	\$ 10,000.00	\$ 10,000.00
Equipment removal (tanks, gun barrel, FWKO)	LS	1	\$ 7,500.00	\$ 7,500.00
Electrical decommissioning (pumps and panels)	LS	1	\$ 5,000.00	\$ 5,000.00
Misc equipment clean-up and removal	hr	120	\$ 135.00	\$ 16,200.00
Removal of AST	LS	2	\$ 75,000.00	\$ 150,000.00
<b>5 Site Restoration</b>				
Dozer - push in berms (bid) and final grading of the site	CY	103,800	\$ 2.00	\$ 207,600.00
Re-vegetation	ea	1	\$ 5,500.00	\$ 5,500.00
<b>Estimated Total</b>				<b>\$ 1,205,864.00</b>

**Assumptions**

- No Remediation will be necessary
- Containment is full at time of closure
- Containment berms above natural grade will be used to fill voids below natural grade



## Venegas, Victoria, EMNRD

---

**From:** Venegas, Victoria, EMNRD  
**Sent:** Thursday, April 4, 2024 1:50 PM  
**To:** David Grounds  
**Cc:** Mitchell Ratke  
**Subject:** 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058]  
**Attachments:** C-147 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] 04.04.2024.pdf

### 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058]

Good afternoon, Mr. Grounds.

NMOCD has reviewed the modification request submitted by [331374] Pilot Water Solutions SWD LLC on 03/29/2024, Application ID 328025, for 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] in Unit Letter F, Section 12, Township 20S, Range 33E, Lea County, New Mexico. The modification request has been approved with the following conditions of approval:

- [331374] Pilot Water Solutions SWD LLC will operate 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] as originally permitted.
- [331374] Pilot Water Solutions SWD LLC will comply with all conditions previously approved for the 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] permit.
- No changes to the operations procedures, maintenance, monitoring procedures, or closure procedures will be made aside from the requested modification.

Please let me know if you have any additional questions.

Regards,

**Victoria Venegas** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. Artesia, NM 88210  
(575) 909-0269 | [Victoria.Venegas@emnrn.nm.gov](mailto:Victoria.Venegas@emnrn.nm.gov)  
<https://www.emnrn.nm.gov/ocd/>



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 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 328025

**CONDITIONS**

Operator: Pilot Water Solutions SWD LLC 20 Greenway Plaza, Suite 500 Houston, TX 77046	OGRID: 331374
	Action Number: 328025
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	The modification request has been approved with the following conditions of approval: • [331374] Pilot Water Solutions SWD LLC will operate 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] as originally permitted. • [331374] Pilot Water Solutions SWD LLC will comply with all conditions previously approved for the 1RF-510 - JANIKOWSKI RECYCLING FACILITY [fVV2331833058] permit. • No changes to the operations procedures, maintenance, monitoring procedures, or closure procedures will be made aside from the requested modification.	4/4/2024