

The City of Durant encourages participation from all its citizens. If participation at any public meeting is not possible due to a disability, notification to the City Clerk at least 48 hours prior to the scheduled meeting is encouraged in order to make the necessary accommodations. The City of Durant may waive the 48-hour rule if interpreters for the deaf (signing) or translation services for limited English proficient (LEP) individuals are not the necessary accommodation.

DURANT CITY UTILITIES AUTHORITY

6:00 PM

**Roscoe J. Hatfield
Council Chambers,
300 West Evergreen,
Durant, Oklahoma**

March 8, 2022

AGENDA

CALL TO ORDER

ROLL CALL

ORDER OF BUSINESS

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

- a. Consider Approval of Regular Meeting Minutes of February 8, 2022

2. Consider Items Removed from Consent

3. Information Items

- a. Line Maintenance Monthly Report - February 2022
- b. Solid Waste Collection Monthly Report - February 2022
- c. Solid Waste Disposal Monthly Report-February 2022
- d. Utility Department Monthly Report - February 2022
- e. Wastewater Treatment Plant and Lab Monthly Reports - February 2022
- f. Water Treatment Plant Monthly Report – February 2022

4. Administration

- a. Discussion, Consideration and Possible Action on Applications to the Oklahoma Department of Environmental Quality for Permit to Construct Water Pollution Control or Public Water Supply Facilities and/or Supply Potable Water to Serve Remington Hills Phase 6.

5. New Business

ADJOURNMENT

CERTIFICATE

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 9th day of November, 2021 and that an agenda of said meeting was posted at the place of such meeting at 4:50 p.m. on the 4th day of March, 2022.



Cynthia J. Price, City of Durant



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of February 8, 2022

Council Information / Action Requested

Approval of Regular Meeting Minutes of February 8, 2022

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Durant City Utilities Authority Minutes 02082022 cjp

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 9th day of November, 2021 and that an agenda of said meeting was posted at the place of such meeting at 5:00 p.m. on the 3rd day of February, 2022.



Cynthia J. Price, City of Durant

**MINUTES OF THE MEETING OF DURANT CITY UTILITIES AUTHORITY
February 8, 2022 AT 6:00 PM
Roscoe J. Hatfield Council Chambers
300 West Evergreen
Durant, Oklahoma**

CALL TO ORDER

Chairman Grube called the meeting to order at 6:40 p.m.

ROLL CALL

Present:

Trustee Steve Brittingham
Trustee Humphrey Miller
Trustee Curtis Morris
Vice Chairman Danny Sherrer
Chairman Oden Grube
City Attorney Tom Marcum
City Manager John Dean
City Clerk Cynthia J. Price

Absent:

None

ORDER OF BUSINESS

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

- a. Consider Approval of Regular Meeting Minutes of January 11, 2022

Motion To: Approve Consent Item as Presented

Motion By: Steve Brittingham

Seconded By: Humphrey Miller

Ayes: Brittingham, Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None

2. Consider Items Removed from Consent

3. Information Items

- a. Line Maintenance Monthly Report - January 2022
- b. Solid Waste Collection Monthly Report - January 2022
- c. Solid Waste Landfill Monthly Report-January 2022
- d. Utility Billing Monthly Report - January 2022
- e. Waste Water Treatment Plant Monthly Reports - January 2022
- f. Water Treatment Plant Monthly Reports - January 2022

4. Administration

- a. Discussion of Durant Landfill Operations and Actions in Response to ODEQ NOV SW-21-03

No action taken.

5. New Business

There was no new business.

ADJOURNMENT

Motion To: Adjourn Meeting

Motion By: Steve Brittingham

Seconded By: Humphrey Miller

Ayes: Brittingham, Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Randy Cantrell, Crew Leader
Re: Line Maintenance Monthly Report - February 2022

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. FEBRUARY 2022 Monthly Report

Line Maintenance Report for February 2022

Water Leaks Repaired	15
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Water Taps Installed	1
----------------------	---

Sewer Taps	1
------------	---

Disconnects February 1st and 8th
Cutoffs February 28th

February 3rd, 4th, 23rd, 24th and 25th we had inclement weather and the crews from M&O helped Street and Solid waste.

The BIG AMR/AMI project is down to the last 13 meters to install. We just received the last of these meters and can now notify RTS to complete the project.



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Jared Dillingham, Superintendent
Re: Solid Waste Collection Monthly Report - February 2022

Solid Waste Collection Monthly Report - February 2022

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Monthly Report Feb 22



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS

February 2022

A. Work Completed:

1. Hauled 4.4 tons of extra hauling
2. Hauled 3 loads of extra hauling
3. Picked up and delivered 4 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 0 times
6. Replaced 0 dumpsters with new
7. Cleaned dead ends of Cemetery rd. 1 time

B. Work Planned For March 2022

1. Replace dumpsters
2. Pick up trash

C. Work Planned For January 1, 2022 – December 31, 2022

1. Pick up trash
2. Replace dumpsters

D. Projects Planned And Requested For Authorization:

None



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From:
Re: Solid Waste Disposal Monthly Report-February 2022

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. DEQ Report February 2022
2. Project schedule February2022



MONTHLY REPORT FOR SOLID WASTE DISPOSAL FACILITIES

(Please see instructions prior to completing this form)

Due by the 10th of the month following the reporting month

Administrative Services
Accounts Receivable
P. O. Box 2036
Oklahoma City, OK 73101-2036

Report month/year: FEBRUARY 2022

Facility Name: CITY OF DURANT C/D LANDFILL
Mailing Address: PO BOX 578
DURANT, OK 74702-0578

Permit Number: 3507001

Phone Number: 580-931-6606

Total # of Days open: 14

COMPLETE SECTIONS 5-10 ONLY IF SCALES GO DOWN

D A Y	(1) Total weight accepted (tons)	(2) Weight which is reused or recycled in accordance with facility permit (tons)	(3) Weight accepted from a DEQ approved emergency or special event (tons)	(4) Weight accepted from large industrial waste generators with DEQ exemption certificate (tons)	(5) Time scales placed out of service	(6) Time scales placed into service	(7) Total volume accepted (yd3)	(8) Volume which is reused or recycled in accordance with facility permit (yd3)	(9) Volume accepted from a DEQ approved emergency or special event (yd3)	(10) Volume accepted from large industrial waste generators with DEQ exemption certificate (yd3)
1	4.11									
2	11.31									
3										
4										
5										
6										
7	0									
8	0.37									
9	21.7									
10	2.99									
11	20.5									
12	0.71									
13										
14	8.33									
15	0									
16	1.83									
17	0									
18	14.63									
19	0.39									
20										
21										
22	0.21									
23	11.97									
24										
25										
26	0									
27										
28	0.17									
29										
30										
31										
Total	99.22	0	0	0	0	0	0	0	0	0

I hereby certify that the information reported above is accurate and correct to the best of my knowledge and includes all solid waste received at this facility.

Signature of authorized agent: [Signature]

Phone #: 580-924-8358

Date: 3-1-22



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***February 2022***

A. Work Completed for February:

1. Covered C & D Site
2. Hauled MSW To SORD
3. Number of rolloff containers in service end of month 118
4. Number of rolloff containers added to service during month 10
5. Number of rolloff containers removed from service during month 15
6. Number of loaded rolloff containers emptied during month 288

B. Work Planned For March:

1. Continue Covering C&D site
2. Haul MSW To SORD
3. Continue Picking up, Delivering

C. Work Planned For Jan. '22 – Dec. '22:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2022 thru 12-2022

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Stephanie Barfield, Supervisor
Re: Utility Department Monthly Report - February 2022

UTILITY MONTHLY REPORT

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. UTILITY MONTHLY REPORT (2)



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

FEBRUARY 2022

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts						
Total Revenue Billed	\$322,862.90	\$2,934,766.36	\$226,676.22	\$1,475,242.65	\$379,280.89	\$2,999,586.80
Adjustments in Dollar	(\$7,579.60)	(\$71,202.21)	(\$32,950.39)	(\$228,468.34)	(\$11,610.42)	(\$86,852.34)
TOTAL CASH RECEIPTS	\$238,208.64	\$2,036,366.24	\$97,256.82	\$776,683.24	\$178,166.99	\$1,549,610.25

CONSUMPTION IN GALLONS	86,860,600
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NEW SERVICE APPLICATIONS	64
NUMBER OF WALK IN/PHONE PAYMENTS	1,052
MAIL PAYMENTS	1,022
CREDIT CARD PAYMENTS	1,265
WEB PAYMENTS	1,779
DROP BOX PAYMENTS	373
BANK DRAFT PAYMENTS	985
CREDIT CARD DRAFT PAYMENTS	502
KIOSK	1,443
OTHERS	



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Ray Anthony, Superintendent
Re: Wastewater Treatment Plant and Lab Monthly Reports - February 2022

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. WWTP Lab Report
2. WWTP Plant Report
3. WWTP Work Done



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

2/1/22 to 2/28/22

Tests Processed

<u>60</u> Bac-T's	<u>30</u> React's
<u>72</u> BOD's	<u>20</u> COD
<u>20</u> TSS's	<u>60</u> MLSS
<u>6</u> NH3's	<u>60</u> Volatile Analysis
<u>56</u> DO's	<u>56</u> pH's
<u>0</u> Ecoli's	<u>0</u> FOG's
<u>16</u> cBOD's	<u>0</u> Total Solids
<u>12</u> Settleable Solids	<u>28</u> Settleometer Test
<u>3</u> Pretreatment Inspections	

Work Projects

- Data entry
- Reports (water test results), Make copies and envelope
- Purchase Orders, copy, file
- Equipment calibrations and maintenance
- Sampling and process readings
- Quality Assurance, Quality Control tests
- Laboratory Testing
- Filing
- Daily/Weekly laboratory and WWTP building cleaning
- Monthly, Quarterly, Bi-annual, Yearly reports
- Ordering Lab chemicals and supplies
- Water Billing
- Storm water monitoring
- Storm water Report
- Pre-Treatment



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

WORK PLANNED FOR MARCH 2022

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (Daily)
- 2: CLEAN CLARIFIER WEIRS (Monthly)
- 3: VEHICLE INSPECTION (Monthly)
- 4: #3 BLOWER MOTOR FIXED (Ongoing)
- 5: 2in WATER PIPE LEAK FIXED AT HEADWORKS (Ongoing)
- 6: CHECK CLARIFIER OIL (Weekly)
- 7: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER (Weekly)
- 8: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 9: BRIDGE FILTER REPAIR (Ongoing)
- 10: WALK-THRU INSPECTION (Monthly)
- 11: WASH DOWN HEADWORKS STEP SCREEN (Daily)
- 12: CLEAN UV TROUGHS, FLUME, AND MANUALLY CHECK U.V. BULBS (Weekly)
- 13: CHECK ELECTRIC MANHOLES (Monthly)
- 14: CLEAN OUT BUILDINGS (Monthly)
- 15: VALVE TO LAGOONS FIXED AT HEADWORKS (Ongoing)
- 16: WASH DOWN CASINO STEPSCREEN (Daily)
- 17: CHECK ALL AUTOMATIC VALVES (Daily)
- 18: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 19: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)
- 20: GRIT PUMPS AT HEADWORKS REPAIRED (Ongoing)
- 21: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 22: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 23: SBR #4 POWER RELAY FIX (Ongoing)
- 24: HEADWORKS STEP SCREEN POWER ISSUE RESOLVED (Ongoing)



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

WORK DONE FOR FEBRUARY 2022

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (Daily)
- 2: CLEAN CLARIFIER WEIRS (Monthly)
- 3: VEHICLE INSPECTION (Monthly)
- 4: # 3BLOWER MOTOR FIXED (Ongoing)
- 5: 2in WATER PIPE LEAK FIXED AT HEADWORKS (Ongoing)
- 6: CHECK CLARIFIER OIL (Weekly)
- 7: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER (Weekly)
- 8: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 9: BRIDGE FILTER REPAIR (Ongoing)
- 10: WALK-THRU INSPECTION (Monthly)
- 11: WASH DOWN HEADWORKS STEP SCREEN (Daily)
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- 13: CHECK ELECTRIC MANHOLES (Monthly)
- 14: CLEAN OUT BUILDINGS (Monthly)
- 15: VALVE TO LAGOONS FIXED AT HEADWORKS (Ongoing)
- 16: WASH DOWN CASINO STEPSCREEN (Daily)
- 17: CHECK ALL AUTOMATIC VALVES (Daily)
- 18: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 19: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)
- 20: GRIT PUMPS AT HEADWORKS REPAIRED (Ongoing)
- 21: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 22: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 23: SBR #4 POWER RELAY FIX (Ongoing)



The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: Anthony Smallwood, Water Treatment Plant Manager
Re: Water Treatment Plant Monthly Report - February 2022

Water Treatment Plant Monthly Report

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. OK1010601 Monthly Report February2022 (2)
2. OK1010601 MOR February2022 #1 (3)
3. OK1010601 Fluoride MOR February2022 (1)
4. OK1010601 MOR February2022 #2 (1)
5. OK1010601 CI02 MOR February2022 (1)



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule February 2022 Monthly Report

A. Work Completed

1. Calibrate lab instruments daily
2. Maintained Water Plant
3. Cleaned all buildings weekly
4. Backwashed filters as needed
5. Backwashed raw pumps weekly
6. Hooked up chlorine tanks and checked for leaks
7. Unload chemicals as they arrived
8. Pulled sludge as needed
9. Run daily chlorine dioxide samples on raw line
10. Flushed alum pumps
11. Inspected fire extinguishers
12. Pulled required water samples and send to ODEQ
13. Clean turbidity meters as needed
14. Cleaned screens on CLO2 generator as needed
15. Mowed and weedeated Plant grounds when needed
16. Replaced polymer pump for Old Plant
17. Reestablish communications at Cardinal Glass tower
18. Repaired communications at Chuckwa tower
19. Continue training Stephen Mills, Jacob Eppler and Frank Enea and Lance Canoy and Tyler Weaver
20. Repaired line to site C
21. Treated 125,159,000 gallons of water
22. Exercise welder, diesel pump, and generator
23. Repaired CL17 at High Service Pump Station
24. Unloaded anthracite to be used in Old Plant filter upgrade

B. Work Planned for March-April

1. Repair #1 raw Pump
2. Repair #3 raw Pump
3. Have towers inspected and cleaned

Approx Start/Finish Date

Time permitting
Time permitting
Time permitting

C. Projects Planned and Requested for Authorization

None at this Time



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)- LT2 ADDENDUM NEEDED
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: **DWT**

PWSID: **1010601**

County: **Bryan**

Month/Year: **February 2022**

System Durant Utilities Authority

Address P.O. Box 578

City Durant, OK

Zip 74702

Instructions:

If there are no combined filter turbidity readings or free chlorine residual sample results at the entry point to the distribution system due to the plant not running, write **OFF** in the box.

Two (2) distribution chlorine residuals **must be taken daily**, even if the plant is not running.

Mail the original by the 10th of the following month to:
Oklahoma DEQ, Water Quality Division, P.O. Box 1677, Oklahoma City, OK 73101

Combined Filter Turbidity	
Total number of turbidity readings required	168
Total number of turbidity readings	168
Number of turbidity readings above 1 NTU	0
HIGHEST turbidity reading	0.14
Number of turbidity readings above 0.15 NTU	0
Percent of turbidity readings above 0.15 NTU	0.00%
Free Chlorine-Entry Point to Distribution	
Total number of chlorine residual samples	168
Number of samples below 1.0 mg/L	0
Free Chlorine-Distribution	
Total number of chlorine residual samples	56
Number of samples below 0.2 mg/L	0

Individual Filter Turbidity - Complete Entire Checklist	
1. Was Each Filter Monitored continuously while the plant was running? ☐ No ☒ Yes	
2. Was each filter monitored every 15 minutes while the plant was running? ☐ No ☒ Yes	
3. Was there a failure of the continuous monitoring equipment? ☒ No ☐ Yes	
4. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings? ☒ No ☐ Yes*	
5. Was individual filter level greater than 0.5 NTU in two consecutive measurements after being on line for more than four hours? ☒ No ☐ Yes*	
6. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings for three months in a row? ☒ No ☐ Yes* (Submit a Self-Assessment of the filter(s) within 14 days of the exceedance)	
7. Did the same filter exceed 2.0 NTU in two consecutive 15 minute readings for two months in a row? ☒ No ☐ Yes* (Contact DEQ to schedule a Comprehensive Performance Evaluation)	

				# of Readings***	COMBINED FILTER TURBIDITY						FREE CHLORINE RESIDUAL								COMMENTS
DAY	RAW	SET	SET		2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION SYSTEM		
											12am	4am	8am	12pm	4pm	8pm			
1	1.42	1.40	1.56	6	0.03	0.03	0.05	0.07	0.06	0.06	2.3	2.3	2.3	2.3	2.3	2.2	1.9	1.7	
2	2.03	4.87	2.35	6	0.09	0.11	0.14	0.07	0.08	0.08	2.3	2.4	2.4	2.5	2.4	2.3	1.8	1.6	
3	1.62	2.00	2.00	6	0.07	0.06	0.04	0.04	0.04	0.04	2.4	2.4	2.3	2.3	2.4	2.4	2.1	2.3	
4	2.22	2.60	2.40	6	0.11	0.10	0.12	0.12	0.04	0.07	2.4	2.4	2.6	2.6	2.5	2.5	2.3	2.0	
5	1.95	3.60	2.20	6	0.12	0.12	0.09	0.13	0.09	0.05	2.5	2.7	2.5	2.6	2.5	2.8	2.1	2.2	
6	2.20	2.70	2.10	6	0.12	0.13	0.08	0.11	0.11	0.14	2.5	2.5	2.6	2.5	2.5	2.6	1.9	2.0	
7	1.61	2.40	2.00	6	0.11	0.06	0.12	0.13	0.07	0.14	2.5	2.5	2.5	2.7	2.6	2.3	2.3	2.3	
8	1.46	2.52	2.46	6	0.13	0.05	0.13	0.10	0.07	0.12	2.3	2.6	2.3	2.4	2.3	2.2	2.2	1.5	
9	1.51	2.02	2.29	6	0.13	0.03	0.03	0.03	0.04	0.12	2.3	2.5	2.4	2.3	2.3	2.3	1.7	1.8	
10	1.30	1.80	1.80	6	0.14	0.04	0.05	0.05	0.07	0.10	2.3	2.4	2.4	2.3	2.3	2.2	2.0	2.1	
11	1.26	1.60	1.60	6	0.14	0.11	0.06	0.05	0.08	0.04	2.2	2.2	2.4	2.4	2.4	2.4	2.0	1.9	
12	1.16	1.40	2.10	6	0.03	0.03	0.03	0.03	0.03	0.04	2.4	2.4	2.4	2.4	2.4	2.4	1.7	1.7	
13	1.14	1.40	1.40	6	0.04	0.05	0.05	0.05	0.05	0.06	2.4	2.4	2.4	2.4	2.4	2.4	1.7	2.1	
14	1.35	1.60	1.70	6	0.07	0.13	0.03	0.04	0.04	0.05	2.4	2.6	2.5	2.5	2.4	2.3	2.1	2.4	
15	1.19	2.30	2.02	6	0.06	0.08	0.05	0.08	0.04	0.03	2.4	2.3	2.5	2.4	2.4	2.3	2.0	1.9	
16	1.11	1.60	1.57	6	0.03	0.03	0.03	0.03	0.03	0.03	2.3	2.2	2.3	2.3	2.2	2.3	1.8	1.9	
17	1.41	2.40	2.30	6	0.03	0.07	0.04	0.14	0.03	0.03	2.2	2.2	2.2	2.3	2.4	2.3	1.5	1.3	
18	3.30	2.19	2.45	6	0.03	0.08	0.03	0.03	0.03	0.03	1.1	1.2	2.4	2.3	2.3	2.3	1.7	1.6	
19	2.17	2.19	2.24	6	0.10	0.11	0.04	0.04	0.03	0.04	2.4	2.4	2.6	2.4	2.4	2.4	1.0	1.7	
20	3.02	2.34	2.49	6	0.03	0.03	0.03	0.03	0.03	0.03	2.3	2.3	2.4	2.4	2.4	2.4	2.1	2.0	
21	3.68	2.70	2.70	6	0.03	0.05	0.07	0.14	0.03	0.04	2.3	2.3	2.4	2.4	2.5	2.5	2.3	1.9	
22	2.48	4.40	4.40	6	0.09	0.12	0.13	0.11	0.10	0.10	2.3	2.3	2.5	2.0	1.6	1.5	2.3	2.1	
23	150.00	11.90	5.90	6	0.10	0.10	0.10	0.10	0.10	0.10	1.6	1.8	1.9	1.9	1.9	1.8	1.2	1.0	
24	38.70	2.79	2.11	6	0.10	0.10	0.10	0.11	0.04	0.04	2.0	2.2	2.4	2.6	2.7	2.8	1.6	0.7	
25	15.70	4.25	2.99	6	0.04	0.04	0.04	0.06	0.10	0.08	3.1	3.1	3.1	3.0	2.8	2.7	0.8	1.2	
26	8.39	3.55	2.40	6	0.09	0.06	0.05	0.04	0.04	0.04	2.9	3.0	3.2	3.3	3.2	3.1	2.0	1.9	
27	6.35	5.45	3.33	6	0.05	0.14	0.08	0.14	0.09	0.06	3.0	3.0	3.7	3.2	3.1	2.8	1.0	2.5	
28	5.82	5.16	3.85	6	0.05	0.05	0.09	0.05	0.07	0.07	3.2	2.9	3.0	2.9	2.5	2.5	2.7	2.6	
29																			
30																			
31																			

*** Number of Readings: You are required to sample the combined effluent for every four hours that the filters are in operation. You must fill out Filter Operation on the 'Chemical and Process Control tab.'

* If you answered Yes to questions 4, 5 (>10,000 population only), 6, or 7, you must complete the Turbidity Trigger Form, follow instruction on the form, and attach it to this MOR.

Oklahoma State Department of Health / Oklahoma Department of Environmental Quality
MONTHLY OPERATION REPORT
RECORD OF FLUORIDE APPLICATION

PWSID 1010601 SYSTEM Durant Ok (SW) MONTH February
Type of Material Applied* Hydrofluorosilicic Acid Year 2022

Date	Water Treated (1000s of Gallons)	Applied		Residual Fluoride (F), ppm			
		lbs.	PPM of F	Raw		Distribution	
				(1)	(2)	(1)	(2)
1	4707	65	0.30	0.00	0.39	0.61	0.64
2	5216	72	0.30	0.02	0.12	0.42	0.71
3	5039	69	0.30	0.39	0.21	0.62	0.52
4	4465	61	0.30	0.22	0.04	0.63	0.48
5	4188	58	0.30	0.00	0.08	0.52	0.63
6	4190	58	0.30	0.15	0.46	0.49	0.79
7	4725	65	0.30	0.14	0.13	0.58	0.40
8	4881	67	0.30	0.42	0.23	0.80	0.63
9	4939	68	0.30	.045	0.18	0.48	0.30
10	4961	68	0.30	0.29	0.27	0.57	0.72
11	4342	60	0.30	0.39	0.60	0.80	0.11
12	4191	58	0.30	0.53	0.29	0.72	0.93
13	4171	57	0.30	0.13	0.47	0.54	0.99
14	4170	57	0.30	0.14	0.16	0.43	0.44
15	4266	59	0.30	0.25	0.42	0.69	0.92
16	4373	60	0.30	0.25	0.14	0.35	0.39
17	4321	59	0.30	0.09	0.13	0.60	0.61
18	4374	60	0.30	0.66	0.46	0.74	0.68
19	4372	60	0.30	0.10	0.05	0.87	0.31
20	4365	60	0.30	0.03	0.35	0.65	0.73
21	4196	58	0.30	0.01	0.64	0.38	1.11
22	3916	54	0.30	0.00	0.00	0.88	0.75
23	5021	69	0.30	0.00	0.00	0.47	0.60
24	4653	64	0.30	0.00	0.24	0.61	0.79
25	4287	59	0.30	0.20	0.66	0.73	1.05
26	4346	60	0.30	0.00	0.94	0.36	1.15
27	4008	55	0.30	0.02	0.22	0.61	1.10
28	4475	61	0.30	0.22	0.65	0.66	1.08
29							
30							
31							
Total	125158	1721	8.4	4.695	8.53	16.81	19.56
Average	4470	61	0.30	0.17	0.30	0.60	0.70

* Example: Sodium Fluoride, Sodium Fluorosilicate (Sodium Silicofluoride), and Fluorosilicic Acid (Hydrofluorosilicic Acid).

It is required that this report be received by the 10th of the following month.

Send to: OSDH – Dental Health Services
1000 NE 10TH ST
OKLAHOMA CITY, OK 73117-1299

AND

Oklahoma Department of Environmental Quality
PO BOX 1677
OKLAHOMA CITY, OK 73101-1677

I hereby certify the above to be correct to the best of my knowledge.

Signed Phillip Hightower
Title Public Works Director
City Durant

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: DWT
PWSID: 1010601
County: Bryan
Month: February 2022

Durant Utilities Authority										P.O. Box 578										Durant, OK										74702										Month: February 2022																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Day	WATER TREATED (in 1,000 gal)	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.								ALKALINITY - RAW				ALKALINITY - FILTERED				pH			CaCO3 STABILITY Method:	HARDNESS (ppm)		Special Test Fe, Mn or Other		REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		FILTERS USED-HOURS									ALUM	POLYMER	Caustic	Fluoride	Chlorite	OTHER	CHLORINE		"P"	"P"	TOTAL	TOTAL	"P"	"P"	TOTAL	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Power Costs	\$18,035.49
Labor Costs	\$49,250.80
Chemicals	\$12,811.23
Supplies	\$700.12
Repairs	\$2,168.59
Testing Cost	\$120.00
TOTAL	\$83,086.23
Cost per thousand gallons	\$0.66

Ave Rate of Wash (Vert. in/min)

Ave Wash Period (Minutes)

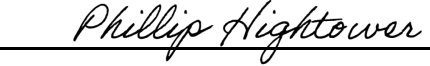
% Wash Water Used

1.79%

Ave. Head Loss for Washing

I hereby certify the above to be correct to the best of my knowledge.

Signed



Print

Phillip Hightower

Title

Public Works Director

DEQ Form # 630-577
Revised 5/21/2018

Oper. Cert. No. B90404

CHLORINE DIOXIDE AND CHLORITE MOR

Section 1: Data Entry

Date	ClO2 Used?	ClO2 POE	ClO2 Dist.			Chlorite POE	Chlorite Dist.			
			1st	2nd	3rd		1st	2nd	3rd	Avg
1	yes	0.1				0.7				####
2	yes	0.4				0.6				####
3	yes	0.6				0.9				####
4	yes	0.2				0.7				####
5	yes	0.1				0.5				####
6	yes	0.3				0.7				####
7	yes	0.3				0.6				####
8	yes	0.3				0.5				####
9	yes	0.4				0.5				####
10	yes	0.3				0.5				####
11	yes	0.4				0.5				####
12	yes	0.2				0.5				####
13	yes	0.2				0.6				####
14	yes	0.4				0.7				####
15	yes	0.2				0.7				####
16	yes	0.2				0.7				####
17	yes	0.1				0.7				####
18	yes	0.3				0.8				####
19	yes	0.2				0.6				####
20	yes	0.2				0.5				####
21	yes	0.3				0.7				####
22	yes	0.1				0.7				####
23	yes	0.2				0.6				####
24	yes	0.3				0.7				####
25	yes	0.3				0.7				####
26	yes	0.5				0.7				####
27	yes	0.5				0.7				####
28	yes	0.5				0.6				####
29										####
30										####
31										####

Month February Year 2022
PWS Name Durant Water Treatment Plant

PWSID 1010601
Plant Name WTP

Total 25

Section 2: Summary of Chlorine Dioxide Daily Monitoring

a. Number of Samples Collected 28.0
b. Number of Point of Entry Samples Exceeded MRDL of 0.8 mg/L 0.0

*For every day the MRDL is exceeded, three chlorine dioxide samples must be taken the next day in the distribution system. Notify your PWS Engineer. Samples results need to be recorded in ClO2 Dist. columns.*Refer to CHLORINE DIOXIDE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Samples Exceeding MRDL of 0.8 mg/L 0.0

****VERY IMPORTANT. THIS IS A TIER 1 VIOLATION. THIS VIOLATION MUST BE IMMEDIATELY REPORTED TO DEQ AND TO ALL PERSON SERVED BY THE SYSTEM WITHIN 24 HOURS.****

Section 3: Summary of Chlorite Daily Monitoring

a. Number of Samples Collected 28.0
b. Number of Point of Entry Samples Exceeded MCL of 1.0 mg/L 0.0

*For every day the MCL exceeded, three chlorite samples must be taken the next day in the distribution system. Enter sample results in Chlorite Dist. columns and then average. *Refer to CHLORITE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Average exceeding MCL of 1.0 mg/L 0.0

Phillip Hightower

Signature of owner or operator

Phillip Hightower

Printed name

3/1/2022

Date

B90404

Operator License #

Send Form by 10th of Following Month to:
Water Quality Division Attn DBP Coord.
P.O. Box 1677 Oklahoma City, Oklahoma 73101-1677





The City of Durant

Memorandum

Date: 3/8/2022
To: Mayor and City Council
From: John Dean, City Manager
Re: Discussion, Consideration and Possible Action on Applications to the Oklahoma Department of Environment Quality for Permit to Construct Water Pollution Control or Public Water Supply Facilities and/or Supply Potable Water to Serve Remington Hills Phase 6.

- Denny Hall submitted his applications and plans for review prior to the change in extending wastewater service outside of the City limits.
- The project is located outside of the city limits and water service will be provided by Bryan County Rural Water, Sewer, and Solid Waste Management District No. 2.
- The applications may be signed by either the "chief elective or executive officer".
- The Public Works staff and Wall Engineering have reviewed the plans and have determined the plans to be acceptable.
- The applications may be approved as they were in the review process when the Code was put in place to not extend services outside of the city limits.
- The only concern that management has is that Bryan County Rural Water, Sewer, and Solid Waste Management District No. 2 has documented that the District will not "get involved in terminating water service to those customers that are receiving sewer or wastewater service from another public entity and are delinquent on their sewer or wastewater bills".

Council Information / Action Requested

Approve or deny Applications to the Oklahoma Department of Environment Quality for Permit to Construct Water Pollution Control or Public Water Supply Facilities and/or Supply Potable Water to Serve Remington Hills Phase 6.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

1. Hall ODEQ App Water
2. Hall ODEQ Engineering Report
3. Hall ODEQ Wastewater App
4. Hall Sewer Line Extension Plans
5. Bryan County RWSSWM District No 2 Letter



- ☐ Water Wells
☒ Waterlines
☐ Water Treatment
☐ Sanitary Sewer
☐ Wastewater Treatment
☐ Water Reuse

DEQ Form 583-B | July 2013

**Application for Permit to Construct Water Pollution Control
or Public Water Supply Facilities and/or Supply Potable Water**

A. Supply Potable Water: Date: _____, 20 ____
ONLY complete if construction is for potable water supply other than applicant

1. Applicant: _____
2. PWS ID #: _____
3. Phone #: _____
4. Email: _____
5. Purchaser: _____

B. Supply Reclaimed Water: Date: _____, 20 ____
ONLY complete if construction is for reclaimed water other than supplier

1. Supplier: _____
2. S-#: R: _____
3. Phone #: _____
4. Email: _____
5. User: _____
6. Category: _____

(Attach Form 627-WRP and 627 LAP if applicable)

C. Construction Facilities:

Date: FEB 08, 20 22

1. Applicant: Bryan County Rural Water District #2
2. S-# or PWSID #: OK 1010604
3. Phone: 580-924-8517 Email: rwd2dist@totalnet.us
4. Engineer's: Email: dkhoury@barkerengineers.com Phone #: 580-931-9045 Fax #: 580-931-9099
5. Construction Proposal: 868 LF. of 6" W.L. & 734 LF. of 8" W.L.
6. Serves: REMINGTON HILLS PHASE 6
7. Legal Description:
Quarter ____ /4, NE ____ /4, SW ____ /4 Section 26 Township T 6 S
Range R 8 E County Bryan

D. Fee: Enclosed is a check or money order (no cash) in the amount of \$ 466.98. (Make checks and money orders payable to the Oklahoma Department of Environmental Quality, Water Quality Division). If exempt from permit fees provide the Oklahoma Water Resources Board REAP Grant No. _____ and/or Emergency Grant No. _____.

E. In making this application, the applicant certifies and states the following:

- | | Yes | No |
|---|-------------------------------------|-------------------------------------|
| 1. The applicant has been supplied with copies of all rules and standards promulgated by the Oklahoma Department of Environmental Quality for the construction and operation of the facility in question. | ☒ | ☐ |
| 2. To the best of the knowledge and belief of the applicant the plans, specifications, and engineering report comply with the requirements of the aforementioned rules and standards. | ☒ | ☐ |
| 3. The applicant agrees to provide inspection and be responsible for the construction and operation of the facility in accordance with the aforementioned rules and standards, and in accordance with state law agrees that the Oklahoma Department of Environmental Quality shall have access to the facility at any time during and after construction for the purpose of inspection for compliance with the provisions of the Environmental Code, 27A O.S. § 2-1-101 and following et seq. | ☒ | ☐ |
| 4. The applicant intends to own and operate the facility after construction is completed. If "No," provide information on responsibility for operation. | ☒ | ☐ |
| 5. The applicant is holder of or will obtain a deed or easement to the land upon which construction is planned. If "No," explain. _____ | ☒ | ☐ |
| 6. The land upon which construction is planned is within the corporate limits of a municipality. If "Yes," application should be executed by authorized agent of the municipality. If "Yes" and applicant is other than a municipality, PRIVATE APPLICANT WITHIN MUNICIPALITY section must be completed. | ☒ | ☐ |
| 7. The wastewater is treated by an on-site sewage disposal systems. If "No," the entity receiving, transporting, or treating the wastewater generated by the area is the applicant. If "No," the RECEIVE, TRANSPORT, OR TREAT section must be completed for sanitary sewer projects. | ☐ | ☒ |
| 8. All local zoning and other ordinances of public entities having jurisdiction concerning the construction of the proposed improvements have been satisfied. If "No" explain. _____ | ☒ | ☐ |

F. Funding Source(s) - Check the following source(s) that will be used to fund this construction project:

- | | |
|---|---|
| ☐ Oklahoma Department of Environmental Quality | ☐ Oklahoma Department of Commerce |
| ☐ Drinking Water State Revolving Fund (DWSRF) | ☐ Community Development Block Grant (CDBG) |
| ☐ Oklahoma Water Resources Board | ☐ U.S. Department of Agriculture (USDA-RD) |
| ☐ Clean Water State Revolving Fund (CWSRF) | ☐ Council of Government (COG) |
| ☐ Rural Economic Action Plan Grant (REAP) | ☒ Local Funds |
| ☐ Emergency Grant | ☐ Other Funding Sources: _____ |
| ☐ State Revenue Bond Program (FAP) | |

Applicant Signature or Private Applicant Within Municipality

- Note:**
1. Application must be signed by the chief elective or executive officer of the applicant, or by the applicant himself if a sole proprietorship. Information must be legible.
 2. To be completed if proposed construction lies within the boundaries of a municipality or other responsible public entity and is to be owned, operated, and maintained by a private entity.

Signature

Name of Authorized Signature

Manager

Title

Bryan County Rural Water District #2

Name of Organization

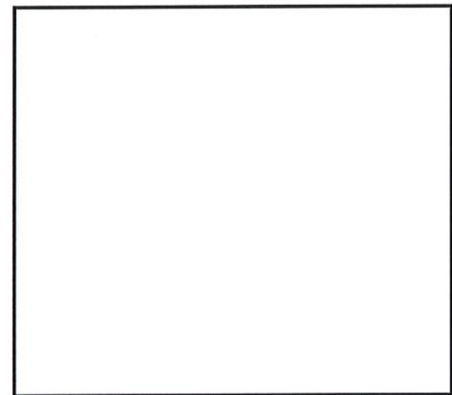
9077 Highway 70, Mead, OK 73449

Mailing Address

Mead, Oklahoma 73449

City/State/Zip Code

Notary Public/Corporate Secretary/City Clerk



NOTARY SEAL

Receive, Transport, or Treat

- Note:** To be completed if proposed construction involves receiving, transporting, or treating wastewater by an entity other than the applicant.

Durant Utilities Authority _____, facility ID No. S-OK 10602 _____, hereby agrees to receive transport, and treat the wastewater generated from the area serviced by the proposed construction of this application. It further states that this entity's facilities have sufficient capacity to provide this service and are permitted under the rules and regulations of the Department of Environmental Quality.

Signature

Name of Authorized Signature

Title

City of Durant

Name of Organization

300 W Evergreen

Mailing Address

Durant, OK 74701

City/State/Zip Code

Notary Public/Corporate Secretary/City Clerk



NOTARY SEAL



**Water Quality Division Preliminary Engineering Report Form
for
Subdivision Plat Approval**

I. Subdivision/Development Information

1. Name of development/subdivision: Remington Hills Phase 6
2. County: Bryan
3. Legal Description: /4, NE /4, SW /4, of Section 26 , T- 6 - S , R - 8 - E , I. M. / C. M., Bryan
County
4. Developer: Bryan County Rural Water District #2
5. Developer's address: 9077 Highway 70, Mead, Ok 73449
6. Developer's phone number: 580-924-8517
7. Water will be supplied by: Bryan County Rural Water District #2
8. Sewage will be received, transported, and treated by: CITY OF DURANT
9. Number of lots (service connections) proposed: 32
10. A location map of the proposed subdivision/development is included? Yes (x); No (). A location map is required.
11. Highest elevation in the proposed subdivision: 705'
12. The elevation of the nearest water storage tower: 890'
13. Water pressure at the point of connection of the subdivision: 80 psi
14. The proposed waterline system is designed to maintain a minimum pressure of 25 psi at all points under all conditions of flow:
Yes (x) : No ()
15. Hydraulic analysis based on flow demands of one gallon per service connection and pressure requirements is used to size all water mains: Yes (x); No ().
16. Hydraulic analysis is provided (hydraulic analysis is required for the review process): Yes (x); No ().
17. A minimum waterline size of six (6) inches in residential areas is proposed: Yes (x); No ().
18. The normal static pressure throughout the area to be served will range from 70 to 80 psi.
19. The normal dynamic pressure throughout the area to be served will range from 66 to 76 psi.
20. Hydrants are provided at each intersection and at intermediate points so spacing does not exceed 600 feet: Yes (x); No ().
21. Hydrants, with 4 1/2 inch pumper outlets are to be connected to mains smaller than 6 inches: Yes (); No (x). If Yes, explain
22. Where waterlines and sewer lines intersect the minimum vertical separation (edge to edge) is 24 inches.
23. Proposed waterline extension involves surface water crossings: Yes (); No (x).
24. Onsite inspection of the proposed waterline construction will be inspected by:
Engineering Firm: Yes (); No (x),
Owner: Yes (x); No (), or
Other (please specify):
25. The area of the proposed development: 7.57 acres. If area of development is 5 acres or more, has the developer/builder obtained a DEQ Storm Water Construction Permit: Yes (); No (x). Developers/builders are required to obtain a DEQ Storm Water Construction Permit for a construction site that will disturb five (5) acres or more in accordance with OPDES, 27A O.S. 2-6-201 et seq.
26. One hundred year flood elevation: 680' approximately 4,000 ft to the South of the Property Line.

I certify that, to the best of my knowledge, all the information provided in this engineering report form is correct and no significant information necessary for a proper evaluation of the project has been omitted:

Signature of Professional Engineer: _____ Date: _____

Name of Professional Engineer: H. Wayne Barker

State of Oklahoma Professional Engineer No: 18513

Phone No: (580) 931-9045

II. Public Water Supply System

1. System Name: Bryan County Rural Water District #2
2. PWSID Number: OK 1010604
3. Source of water supply: Purchase
Surface _____, Ground _____, or Purchase x
Community x or Non-Community _____
4. Population served by proposed platted subdivision: 80, Assuming 2.5 people per house
5. Number of service connections (subdivision): 32
6. Estimated total daily water demand: 8,000 gallon/day, Average flow 100 gpd per person
7. System pressure at point of connection: 80 psi

I, _____, the Authorized Representative for the _____, certify that _____ will supply water to the proposed subdivision. The water system is adequate to supply quantity and quality of water to the proposed subdivision and maintain the minimum pressure requirements of 25 psi at all points in the distribution system at all times.

Signature of Authorized Representative for the Water Supply System

III. Community/Public Sewage System

1. System Name: Durant Utilities Authority
2. Facility ID Number: S- OK 10602
3. Population served by proposed platted subdivision: 80, Assuming 2.5 people per house
4. Number of service connections (subdivision): 32
5. Total estimated daily sewage generated by the proposed subdivision: 8,000 gallon/day, Average flow 100 gpd per person

I, _____, the Authorized Representative for the _____, certify that _____ will receive transport and treat the sewage generated by the proposed subdivision. The Sewage Treatment Facility is adequate to treat the waste as required by the Oklahoma Department of Environmental Quality.

Signature of Authorized Representative for the Sewage Treatment Facility



IV. Water Quality Division

Reviewed By: _____

Position: _____

Date Approved: _____

Signature: _____



- ☐ Water Wells
☐ Waterlines
☐ Water Treatment
☒ Sanitary Sewer
☐ Wastewater Treatment
☐ Water Reuse

DEQ Form 583-B | July 2013

**Application for Permit to Construct Water Pollution Control
or Public Water Supply Facilities and/or Supply Potable Water**

A. Supply Potable Water: Date: _____, 20____
ONLY complete if construction is for potable water supply other than applicant

1. Applicant: _____
2. PWS ID #: _____
3. Phone #: _____
4. Email: _____
5. Purchaser: _____

B. Supply Reclaimed Water: Date: _____, 20____
ONLY complete if construction is for reclaimed water other than supplier

1. Supplier: _____
2. S-#: R: _____
3. Phone #: _____
4. Email: _____
5. User: _____
6. Category: _____

(Attach Form 627-WRP and 627 LAP if applicable)

C. Construction Facilities:

Date: FEB, 08, 2022

1. Applicant: Durant Utilities Authority
2. S-# or PWSID #: OK 10602
3. Phone: 580-740-4074 Email: rcantrell@durant.org
4. Engineer's: Email: wbarker@barkerengineers.com Phone #: 580-931-9045 Fax #: 580-931-9099
5. Construction Proposal: 1,480 LF of 8" Dia. Gravity Line
6. Serves: Remington Hills Phase 6
7. Legal Description:
Quarter ____ /4, NE /4, SW /4 Section 26 Township T 6 S
Range R 8 E County Bryan

D. Fee: Enclosed is a check or money order (no cash) in the amount of \$ 499.72. (Make checks and money orders payable to the Oklahoma Department of Environmental Quality, Water Quality Division). If exempt from permit fees provide the Oklahoma Water Resources Board REAP Grant No. _____ and/or Emergency Grant No. _____.

E. In making this application, the applicant certifies and states the following:

- | | Yes | No |
|---|-------------------------------------|-------------------------------------|
| 1. The applicant has been supplied with copies of all rules and standards promulgated by the Oklahoma Department of Environmental Quality for the construction and operation of the facility in question. | ☒ | ☐ |
| 2. To the best of the knowledge and belief of the applicant the plans, specifications, and engineering report comply with the requirements of the aforementioned rules and standards. | ☒ | ☐ |
| 3. The applicant agrees to provide inspection and be responsible for the construction and operation of the facility in accordance with the aforementioned rules and standards, and in accordance with state law agrees that the Oklahoma Department of Environmental Quality shall have access to the facility at any time during and after construction for the purpose of inspection for compliance with the provisions of the Environmental Code, 27A O.S. § 2-1-101 and following et seq. | ☒ | ☐ |
| 4. The applicant intends to own and operate the facility after construction is completed. If "No," provide information on responsibility for operation. | ☒ | ☐ |
| 5. The applicant is holder of or will obtain a deed or easement to the land upon which construction is planned. If "No," explain. _____ | ☒ | ☐ |
| 6. The land upon which construction is planned is within the corporate limits of a municipality. If "Yes," application should be executed by authorized agent of the municipality. If "Yes" and applicant is other than a municipality, PRIVATE APPLICANT WITHIN MUNICIPALITY section must be completed. | ☒ | ☐ |
| 7. The wastewater is treated by an on-site sewage disposal systems. If "No," the entity receiving, transporting, or treating the wastewater generated by the area is the applicant. If "No," the RECEIVE, TRANSPORT, OR TREAT section must be completed for sanitary sewer projects. | ☐ | ☒ |
| 8. All local zoning and other ordinances of public entities having jurisdiction concerning the construction of the proposed improvements have been satisfied. If "No" explain. _____ | ☒ | ☐ |

F. Funding Source(s) - Check the following source(s) that will be used to fund this construction project:

- | | |
|---|---|
| ☐ Oklahoma Department of Environmental Quality | ☐ Oklahoma Department of Commerce |
| ☐ Drinking Water State Revolving Fund (DWSRF) | ☐ Community Development Block Grant (CDBG) |
| ☐ Oklahoma Water Resources Board | ☐ U.S. Department of Agriculture (USDA-RD) |
| ☐ Clean Water State Revolving Fund (CWSRF) | ☐ Council of Government (COG) |
| ☐ Rural Economic Action Plan Grant (REAP) | ☒ Local Funds |
| ☐ Emergency Grant | ☐ Other Funding Sources: _____ |
| ☐ State Revenue Bond Program (FAP) | |

Applicant Signature or Private Applicant Within Municipality

- Note:** 1. Application must be signed by the chief elective or executive officer of the applicant, or by the applicant himself if a sole proprietorship. Information must be legible.
2. To be completed if proposed construction lies within the boundaries of a municipality or other responsible public entity and is to be owned, operated, and maintained by a private entity.

Signature

Name of Authorized Signature

Title

Durant Utilities Authority

Name of Organization

PO Box 578

Mailing Address

Durant, Oklahoma 74702

City/State/Zip Code

Notary Public/Corporate Secretary/City Clerk

NOTARY SEAL

Receive, Transport, or Treat

- Note:** To be completed if proposed construction involves receiving, transporting, or treating wastewater by an entity other than the applicant.

_____, facility ID No. S-_____, hereby agrees to receive transport, and treat the wastewater generated from the area serviced by the proposed construction of this application. It further states that this entity's facilities have sufficient capacity to provide this service and are permitted under the rules and regulations of the Department of Environmental Quality.

Signature

Name of Authorized Signature

Title

Name of Organization

Mailing Address

City/State/Zip Code

Notary Public/Corporate Secretary/City Clerk

NOTARY SEAL

CITY OF DURANT / DURANT UTILITIES AUTHORITY

SEWER LINE EXTENSION

FOR

REMINGTON HILLS PHASE 6

INDEX OF DRAWINGS

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CI100	GENERAL NOTES
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CU201	SEWER LINE B PLAN & PROFILE
CU500	SEWER DETAILS
CU501	SEWER DETAILS

DURANT, OKLAHOMA
FEBRUARY, 2022



LOCATION MAP

NOT TO SCALE

ENGINEER:

CITY REVIEW SET
-NOT FOR CONSTRUCTION-
2/8/2022

H. WAYNE BARKER, P.E.
PROJECT MANAGER
OK. NO. 18513

DATE



3902 University Blvd.
Durant, OK 74701
Voice: 580.931.9045
Fax: 580.931.9099
OK CA# 3998
Exp. 06/30/2022

THIS DESIGN SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN.
USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE
DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS.

GENERAL NOTES

1. THE CONTRACTOR SHALL HAVE EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL "OKIE" 1-800-522-6543 IN ADDITION TO DIRECT NOTIFICATION. CONTRACTOR SHALL BRACE UTILITY POLES AS NECESSARY. UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
2. THE CONTRACTOR SHALL ESTABLISH, INSTALL, OPERATE, AND MAINTAIN COMPLETE AND ADEQUATE AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER.
3. ALL DIMENSIONS OR ELEVATIONS WITH ± SHALL BE CONFIRMED BY THE CONTRACTOR.
4. ALL DIMENSIONS OF EXISTING STRUCTURES AND EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER & OWNER.
5. TOPSOIL IN THE DISTURBED AREAS SHALL BE REMOVED, STOCKPILED, AND RESTORED AFTER CONSTRUCTION OPERATIONS, IN ACCORDANCE WITH PROJECT SPECIFICATIONS. ALL EXCESS TOPSOIL SHALL BE CONSIDERED WASTE AND STOCKPILED ON-SITE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
6. ALL DISTURBED ROADWAY AND DRIVEWAY SURFACES SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED, UNLESS OTHERWISE NOTED.
7. FALL PROTECTION AROUND ALL OPENINGS AND EXCAVATION SHALL BE MAINTAINED AT ALL TIMES.
8. NORTH ARROWS SHOWN ON DRAWINGS INDICATE LOCAL COORDINATE SYSTEM ESTABLISHED BY THE SURVEYOR, UNLESS OTHERWISE NOTED.
9. TRENCH SAFETY AND SHORING IN ACCORDANCE WITH CURRENT OSHA REGULATIONS SHALL BE EMPLOYED BY CONTRACTOR AT ALL TIMES.
10. IF AT ANY POINT CONSTRUCTION ACTIVITIES EXPOSE ARCHEOLOGICAL MATERIALS SUCH AS CHIPPED STONE, TOOLS, POTTERY, BONE, HISTORIC CROCKERY, GLASS, METAL ITEMS OR BUILDING MATERIALS, THE STATE ARCHEOLOGIST SHALL BE CONTACTED IMMEDIATELY & ALL CONSTRUCTION ACTIVITIES IN THAT AREA HALTED UNTIL FURTHER DIRECTION FROM THE STATE ARCHEOLOGIST.
11. ALL STATIONS SHOWN ON THE PLANS ARE CENTERLINE STATIONS UNLESS NOTED OTHERWISE.
12. THE TOPOGRAPHIC SURVEY WAS COMPLETED BY PAGE SURVEYING. ALL EXISTING INFORMATION IS SHOWN AS ACCURATELY AS POSSIBLE BASE UPON FIELD RECONNAISSANCE AND RESEARCH. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION. IF CONTRACTOR BELIEVES EXISTING INFORMATION IS INACCURATE, THE CONTRACTOR MAY HAVE A NEW SURVEY COMPLETED AT NO ADDITIONAL COST TO THE OWNER, ARCHITECT, OR ENGINEER.
13. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED WHICH CAN BE BACKFILLED IN ONE (1) DAY, WITHOUT APPROVAL OF ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES
14. ALL PAVEMENT REMOVAL AND REPLACEMENT SHALL BE MADE PER STANDARD DETAILS.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING STORM WATER POLLUTION PREVENTION PLAN & SUBMITTING TO AUTHORITY HAVING JURISDICTION.
2. SILT FENCE SHALL BE MAINTAINED AND SEDIMENT BUILDUP REGULARLY REMOVED UNTIL PAVING OPERATIONS ARE COMPLETE AND/OR SEEDING IS IN PLACE AND 75% VEGETATION STABILIZATION IS OBTAINED.
3. ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE AT EACH STRUCTURE, IN A MANNER APPROVED BY THE ENGINEER.
4. ALL FLOW LINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY COMPACTED TO 95% STANDARD PROCTOR DENSITY BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES.
5. IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS, AND AFTER GRADING OPERATIONS ARE COMPLETED, BUT BEFORE PAVEMENT AND/OR PERMANENT EROSION CONTROL WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE OWNERS REPRESENTATIVE.
6. AT THE BEGINNING OF THE TURF OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHALL BE FERTILIZED AND WATERED BUT SHALL NOT BE SEEDED, SODDED OR SPRIGGED.
7. VEGETATIVE MULCH AND SEEDING SHALL BE UTILIZED FOR TEMPORARY EROSION CONTROL.
8. SEED: THE FOLLOWING KINDS OF SEEDS, AT ACRES-RATES INDICATED BELOW, SHALL BE PLANTED ON THE AREAS DESIGNATED FOR SEEDING.

TEMPORARY SEEDING	
KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
COOL SEASON MIX- PERENNIAL RYEGRASS (LOLIUM PERENNE) CRIMSON CLOVER (TRIFOLIUM INCARNATUM)	20 LBS. OF SEED 12 LBS. OF SEED
WARM SEASON MIX- KOREAN LESPEDEZA (LESPEDEZA STRIATA) CRIMSON CLOVER (TRIFOLIUM INCARNATUM) LITTLE BLUESTEM (ANDROPOGON SCOPARIUS) COMMON BERMUDA (CYNODON DACYLON)	12 LBS. OF SEED 20 LBS. OF SEED 12 LBS. OF SEED 4 LBS. OF SEED

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04(b) OF THE ODOT STANDARD SPECIFICATIONS.

SEASONAL PLANTING RESTRICTIONS
THE PLANTING OF SPRIGGING SHALL BE RESTRICTED TO THE PERIOD FROM APRIL 1ST TO JUNE 30TH.

THE PLANTING OF TEMPORARY SEEDS (COOL SEASON MIX) SHALL BE RESTRICTED TO THE PERIOD FROM SEPTEMBER 1ST TO NOVEMBER 15TH.

THE PLANTING OF TEMPORARY SEEDS (WARM SEASON MIX) SHALL BE RESTRICTED TO THE PERIOD FROM MARCH 15TH TO JUNE 30TH.

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 0-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 LBS. PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

UTILITY CONTACTS:

ELECTRIC	OG&E	CHAD LOVELACE	580.224.7558
GAS	ONG	BROOKS DOW	918.831.8276
WATER	CITY OF DURANT	RANDY CANTRELL	580.920.5051
SEWER	CITY OF DURANT	RANDY CANTRELL	580.920.5051
COMMUNICATION	AT&T	RONNIE GRAGG	918.421.1792

SITE WORK NOTES:

1. CONTRACTOR SHALL DISPOSE OF TREES, STUMPS, DEBRIS, ETC. OFF SITE IN A MANNER APPROVED BY THE OWNER.
2. REMOVE ANY STUMPS, ROOTS LARGER THAN 2 INCHES IN DIAMETER, ROCKS LARGER THAN 3 INCHES AND ANY MATTED ROOTS, TO A DEPTH OF 18 INCHES BELOW ORIGINAL GROUND SURFACE.
3. FOLLOWING INITIAL SITE PREPARATION AND UNDERCUTTING OF THE REQUIRED AREAS, THE EXPOSED SOILS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6-INCHES. MOISTURE CONDITIONED WITHIN 2% BELOW 2% ABOVE THE MATERIAL'S OPTIMUM MOISTURE. RE-COMPACT TO AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. MOISTURE SHALL BE MAINTAINED UNTIL PLACEMENT OF FILL. ALL EXPOSED AREAS THAT WILL REQUIRE STRUCTURAL FILL OR THAT WILL SUPPORT PAVEMENT SHOULD BE CAREFULLY PROOF ROLLED WITH A LOADED TANDEM-AXLE DUMP TRUCK PRIOR TO FILL PLACEMENT OR CONSTRUCTION. TESTING AGENCY SHALL DETERMINE SUBGRADE SUITABILITY.
4. FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8-INCHES LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY. FILL SHALL BE TESTED FOR FIELD DENSITY FOR EACH LIFT OF FILL AT FREQUENCIES OF EVERY 1,500 SQ. FT. IN AREA UNDER STRUCTURES. FOR UTILITY TRENCHES, TEST FIELD DENSITY AT FREQUENCIES OF 100 LINEAR FOOT OF TRENCH AND AT FREQUENCIES OF 50 LINEAR FOOT OF ANY UTILITY UNDERNEATH PAVEMENT OR OTHER STRUCTURES.
5. EARTHWORKS SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE PONDING WATER ON THE SUBGRADE. SITE SHALL MAINTAIN DRAINAGE AT ALL TIMES. MOISTURE CONTENT OF SOIL SHOULD BE MAINTAINED NEAR OPTIMUM DURING CONSTRUCTION.
6. CONTRACTOR SHALL BLEND NEW DITCHES AND SLOPES TO MATCH EXISTING DITCHES AND SLOPES AT THE BEGINNING, END AND ALL ROAD INTERSECTIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE MADE.
7. ALL ROCKS AND DEBRIS SHALL BE REMOVED FROM ALL DRAINS PRIOR TO FINAL INSPECTION.

UTILITY NOTES:

1. ALL SANITARY AND PUBLIC WATER SUPPLY IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARD CONSTRUCTION SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SERVICES FROM DAMAGE. UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES, AND ANY DISRUPTION OF SERVICE SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
3. ALL CONCRETE FOUNDATION STRUCTURES AND MANHOLES SHALL BE CONSTRUCTED ON A MINIMUM THICKNESS OF 4" OF CLEAN COMPACTED CRUSHED ROCK UNLESS OTHERWISE NOTED. SUCH BEDDING SHALL BE APPROVED PRIOR TO CONCRETE PLACEMENT.
4. CONTRACTOR SHALL VERIFY PROPOSED UTILITY LINE ELEVATIONS TO INSURE NO CONFLICTS WITH EXISTING UTILITIES. MINOR FIELD ADJUSTMENTS NECESSARY TO AVOID CONFLICTS SHALL BE COORDINATED WITH THE APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE, TYPE AND LOCATION TO INSURE PROPER CONNECTION.
6. ALL BURIED FITTINGS, SUCH AS BENDS, TEES, ETC., SHALL BE BLOCKED FOR THRUST, AS SHOWN ON THE STANDARD DETAIL DRAWING. THIS REQUIREMENT SHALL INCLUDE ALL PRESSURE PIPING AND LOW HEAD (GRAVITY) PIPING. COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
7. MINIMUM DEPTH OF COVER SHALL BE 30-INCHES UNLESS OTHERWISE NOTED.
8. NO. 12 COPPER WIRE (TRACER WIRE) AND MYLAR DETECTABLE MARKING TAPE SHALL BE BURIED 12" ABOVE THE TOP OF ALL NON-METALLIC LINES.
9. ALL SERVICE LINES CROSSINGS & TAPS SHALL BE INSTALLED PRIOR TO PAVING.
10. GRAVITY PIPE LENGTHS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
11. GRAVITY SEWER SHALL BE LEAK & DEFLECTION TESTED IN ACCORDANCE W/ SPECIFICATIONS.
12. ALL WATER & SEWER LINE(S), GRAVITY AND PRESSURE PIPELINES, WITHIN THE PROPOSED LIMITS OF PAVING OR SIDEWALKS SHALL BE BACKFILLED WITH CLASS I BEDDING MATERIAL(CRUSHED STONE) TO SUBGRADE ELEVATION. WATER/SEWER LINES OUTSIDE THE LIMITS OF PAVING SHALL BE BACKFILLED IN ACCORDANCE WITH SPECIFICATIONS & DETAILS.
13. ALL MANHOLE TOP OF RIM ELEVATIONS SHOWN SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD TO FIT GRADE.
14. THE PLANS HAVE BEEN PREPARED TO SHOW THE APPROXIMATE LOCATION OF EXISTING KNOWN UTILITIES. THE CONTRACTOR SHALL CONTACT OKIE, EACH RESPECTIVE UTILITY COMPANY AND THE PROJECT OWNER TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. ANY CHANGE IN ALIGNMENT OR GRADE CAUSED BY INTERFERING UTILITIES SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
15. DEPTHS OF ANY EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL AT HIS OWN EXPENSE UNCOVER AND VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES IN ADVANCE OF THE CONSTRUCTION.
16. CONTRACTOR SHALL COORDINATE ANY ACTIVITIES INVOLVING WATER & SANITARY SEWER SYSTEM WITH UTILITY AND OWNER'S REPRESENTATIVE.
17. THE MAXIMUM DEFLECTION AT ANY JOINT OR FITTING SHALL BE 75% OF THE DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER.
18. FLUSHING: ALL WATER LINES SHALL BE FLUSHED TO REMOVE FOREIGN MATTER FROM THE LINES, VALVES AND HYDRANTS. A MIN VELOCITY OF 2.5 FEET PER SECOND SHALL BE OBTAINED DURING FLUSHING. THE FLOW THROUGH EACH FIRE HYDRANT SHALL BE LIMITED TO 500 GALLONS PER MINUTE. THE CONTRACTOR SHALL PROVIDE TEMPORARY VALVES AND FITTINGS REQUIRED FOR FLUSHING.
19. HYDROSTATIC TESTING: ALL NEW WATER LINES SHALL BE TESTED AT 150 PSI FOR A PERIOD OF 3 HOURS. NO LINE WILL BE ACCEPTED UNLESS THE LEAKAGE IS LESS THAN THE ALLOWABLE AS DETERMINED BY THE FOLLOWING FORMULA:

$$\frac{L = SD \sqrt{P}}{133200}$$

WHERE L IS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR
WHERE S IS THE LENGTH OF PIPE TESTED IN FEET
WHERE D IS THE NOMINAL DIAMETER OF THE PIPE IN INCHES
WHERE P IS THE TEST PRESSURE IN PSI (150)

20. DISINFECTION: ALL NEW WATER LINES, VALVES AND FIRE HYDRANTS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C601.81. METHODS DESCRIBED IN SEC. 5.1 (TABLET METHOD) OR 5.2 (CONTINUOUS FEED METHOD) SHALL BE USED FOR DISINFECTION. THE CONTRACTOR SHALL COLLECT BACTERIAL SAMPLES, AND DELIVER TO AN APPROVED ENVIRONMENTAL LABORATORY FOR PROCESSING.
21. THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST ALL TAPS, TIE OVERS, VALVES, ETC, AS REQUIRED TO FLUSH, HYDROSTATIC TEST AND DISINFECT ALL NEW LINES PRIOR TO THE LINES BEING PLACED IN SERVICE.
22. ALL WATER LINES SHALL BE BEDDED AND BACKFILLED IN STRICT ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL.
23. A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION (FOR PARALLEL LINES) AND 2 FEET OF VERTICAL SEPARATION (FOR LINES CROSSING) SHALL BE MAINTAINED BETWEEN WATER AND SANITARY SEWER LINES IN ACCORDANCE WITH REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY.

MATERIAL NOTES:

1. WATER PIPE
- 1.1. PIPE: WATER LINE PIPE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS
- 1.1.1. WATERLINES SMALLER THAN 1-1/2" SHALL BE HIGH-DENSITY POLY ETHYLENE (HDPE) DR11 (200 PSI) CONFORM TO ASTM D3550
- 1.1.2. 2" THRU 12" WATER LINES SHALL BE ULTRA-BLUE MOLECULAR ORIENTED POLYVINYL CHLORIDE PIPE (PVC) CONFORM TO ASTM D2214 OR ASTM F1483, OR APPROVED EQUAL BY WATER DISTRICT #2 WITH A MINIMUM CLASS 200 PSI PIPE.
- 1.1.3. WATERLINES AT ROAD, AND CREEK SHALL BE HDPE FUSED PIPE CONFORM TO AWWA C906 DR11 (200 PSI) INSTALLED THROUGH STEEL CASING.
- 1.2. PIPE: SEWER LINE PIPE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS.
- 1.2.1. GRAVITY SEWER LINE PIPE SHALL BE POLYVINYL CHLORIDE (PVC) AND CONFORM TO ASTM D3034 SDR 26.
2. FITTINGS
- 2.1. FITTINGS FOR PVC PIPE 4" AND LARGER SHALL BE MECHANICAL JOINT, RESTRAINED FITTINGS, GRAY IRON OR DUCTILE CONFORMING TO AWWA C110. FITTINGS 12" AND SMALLER SHALL BE CLASS 250 AND FITTINGS LARGER THAN 12" SHALL BE CLASS 150. COMPACT FITTINGS CONFORMING TO AWWA C153-88 MAY BE USED.
- 2.2. THE INTERIOR OF ALL FITTINGS SHALL HAVE A CEMENT MORTAR LINING CONFORMING TO AWWA C104 AND A ONE MILL EXTERIOR BITUMINOUS COATING CONFORMING TO AWWA C151.
- 2.3. ALL VALVES, BENDS, FITTINGS, ETC. SHALL BE FITTED WITH MIDCO RESTRAINTS. BENDS SHALL BE THRUST BLOCKED WITH CONCRETE AS SHOWN ON SHEETS CU510.
- 2.4. FITTINGS FOR PVC 3" AND SMALLER SHALL BE PVC WITH PUSH ON JOINTS.
3. VALVES AND ACCESSORIES
- 3.1. GATE VALVES SHALL BE IRON BODIED, BRONZE MOUNTED, NON-RISING STEM, RESILIENT SEATED CONFORMING TO AWWA C-509. FIRE HYDRANT WATCH VALVES SHALL HAVE MECHANICAL JOINT BY FLANGE END CONNECTIONS.
- 3.2. ALL GATE VALVES SHALL BE MANUFACTURED BY AVK OR APPROVED EQUAL.
4. TAPPING SLEEVES AND VALVES
- 4.1. TAPPING SLEEVES SHALL BE MUELLER NO. H-615 OR AN APPROVED EQUAL.
- 4.2. TAPPING VALVES SHALL BE MUELLER NO. H-667 OR AN APPROVED EQUAL.
5. SERVICE SETTINGS
- 5.1. SERVICE SETTING SHALL BE INSTALLED BY THE UTILITY OWNER.
6. COUPLINGS
- 6.1. SMITH-BLAIR 441 SIZE OR FORD FC1 OR AN APPROVED EQUAL.
7. PVC CASING SHALL CONFORM TO ASTM D3034 SDR 35.
8. STEEL CASING SHALL CONFORM TO ASTM A53 GRADE B 36000 PSI MIN WALL THICKENS 3/8".
9. METALLIC DETECTOR TAP SIX (6) INCHES WIDE LABELED "CAUTION WATER MAIN BURIED BELOW" SHALL BE INSTALLED APPROXIMATELY 12 TO 24 INCHES BELOW THE SURFACE AND CENTERED ABOVE THE PIPE.

HATCH LEGEND

	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED HOUSE
	PROPOSED DRIVEWAY
	EXISTING ASPHALT

EXISTING LEGEND

— SS —	SS	— SS —	SS	SEWER LINE
— W —	W	— W —	W	WATER LINE
— ROW —	ROW	— ROW —	ROW	HIGHWAY RIGHT-OF-WAY
— GAS —	GAS	— GAS —	GAS	16.5' STATUTORY RIGHT-OF-WAY
— PIPELINE IN VICINITY —	PIPELINE IN VICINITY	— PIPELINE IN VICINITY —	PIPELINE IN VICINITY	PIPELINE IN VICINITY
— BOUNDARY LINE —	BOUNDARY LINE	— BOUNDARY LINE —	BOUNDARY LINE	BOUNDARY LINE
— EXISTING WIRE FENCES —	EXISTING WIRE FENCES	— EXISTING WIRE FENCES —	EXISTING WIRE FENCES	EXISTING WIRE FENCES
— OVERHEAD ELECTRIC —	OVERHEAD ELECTRIC	— OVERHEAD ELECTRIC —	OVERHEAD ELECTRIC	OVERHEAD ELECTRIC

⊙	SET 1/2" STEEL PIN WITH CAP (PLS1566)	(P)	RECORD PLATTED DATA
⊠	FOUND MAG NAIL	⊕	POWER POLE
⊗	FOUND 1/2" STEEL PIN WITH CAP (PLS 1651)	⊙	GUY ANCHOR
⊙	FOUND 1/2" STEEL PIN	⊙	SANITARY SEWER MANHOLE
●	FOUND BRASS CAP	●	SEWER CLEAN OUT
⊕	FOUND 3/8" STEEL PIN WITH CAP (PLS 215)	⊕	WATER VALVE
⊕	FOUND 3/8" STEEL PIN	⊕	WATER METER
▲	CALCULATED CORNER (NOT SET)	⊕	TELEPHONE PEDESTAL
(M)	MEASURED FIELD DATA	⊕	COMMUNICATIONS VAULT
		⊕	ELECTRIC TRANSFORMER

ABBREVIATION LEGEND:

THESE ABBREVIATIONS MAY BE FOUND IN CONSTRUCTION DRAWINGS

ADD'L = ADDITIONAL	GA. = GAUGE	R = RADIUS
BM = BENCH MARK	HIGH PT.= HIGH POINT	RE: = REFERENCE
BVCE = BEGIN VERTICAL CURVE	I.D. = INNER DIAMETER	REQ'D = REQUIRED
ELEVATION	LA = LENGTH OF RIP RAP APRON	R.O.W. = RIGHTS OF WAY
BVCS = BEGIN VERTICAL CURVE	L.F. = LINEAR FOOT	S.F. = SQUARE FOOT
STATION	LOW PT. = LOW POINT	SL. = SLOPE
BW = BOTTOM OF WALL	LP = LENGTH OF FLUME	SS. = SQUARE
C/C = CENTER TO CENTER	LVC = LENGTH OF VERTICAL CURVE	SSMH = SANITARY SEWER MANHOLE
CET = CULVERT END TREATMENT	MAX. = MAXIMUM	STA. = STATION
CGMP = CORRUGATED GALVANIZED	MD. = MEASURED DEPTH	T = TANGENT
METAL PIPE	MECH. = MECHANICAL	TC = TOP OF CURB ELEVATION
CL = CENTER LINE	ME EL. = MATCH EXISTING ELEVATION	TF = TOP OF FOOTING
CMU = CONCRETE MASONRY UNIT	MIN. = MINIMUM	TR. = TOP OF RIM
CONC. = CONCRETE	N. = NORTHING	TW = TOP OF WALL
CONSTR= CONSTRUCT	N.T.S. = NOT TO SCALE	TYP. = TYPICAL
CTRS = CENTERS	O.C. = ON CENTER	W. = WITH
DIA. = DIAMETER	O.C.E.W.= ON CENTER EACH WAY	W.W.F. = WELDED WIRE FABRIC
E. = EASTING	P.C. = POINT OF CURVATURE	Z. = ELEVATION
EL. = PROPOSED ELEVATION	P.C.C. = PORTLAND CEMENT	& = AND
EVCS = END VERTICAL CURVE STATION	CONCRETE	Ø = DIAMETER
EVCE = END VERTICAL CURVE	PCES = PREFABRICATED CULVERT	@ = AT
ELEVATION	END SECTION	Δ = DELTA
EX. = EXISTING	PRC = POINT REVERSE CURVATURE	ε = CENTER LINE
FF = FINISH FLOOR ELEVATION	PT = POINT OF INTERSECTION	
FL. = FLOW LINE	PVI = POINT OF VERTICAL INTERSECTION	
FT. = FOOT		



CHECKED BY: H. WAYNE BARKER, P.E.

CITY REVIEW SET
2/8/2022

REMINGTON
HILLS PHASE 6

DENNY HALL

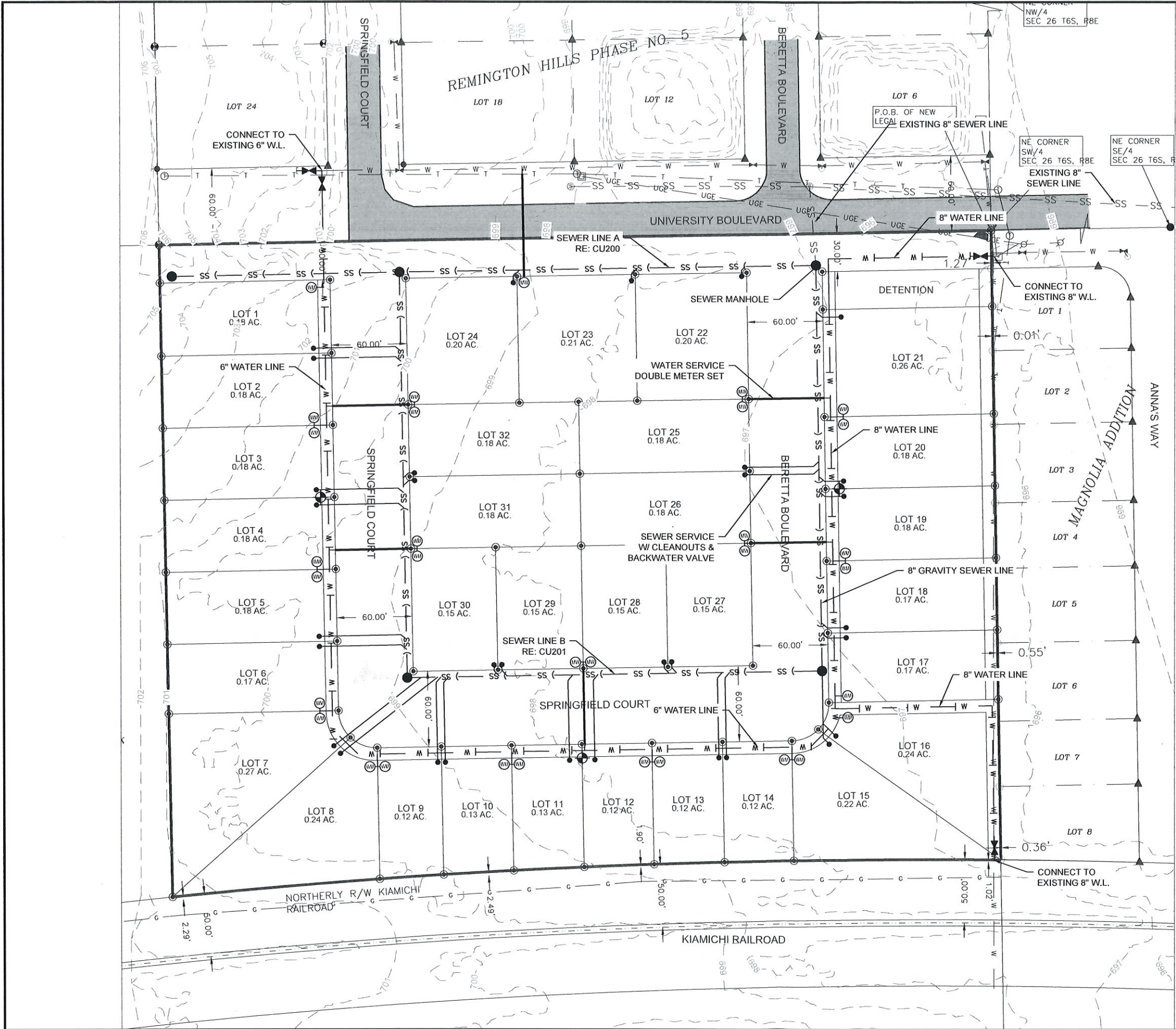
DURANT, OKLAHOMA

KEY PLAN

DESIGNED BY: DJK		
DRAWN BY: DJK		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

GENERAL NOTES

PROJECT NUMBER	
10816	
STATE	DATE
OKLAHOMA	FEB. 2022
SHEET NUMBER	
C001	



Barker & Associates
3902 University Blvd.
Durant, OK 74701
580.931.9045
OK, CA, 3998
EXP. 06/30/2022

CHECKED BY: H. WAYNE BARKER, P.E.

CITY REVIEW SET
2/8/2022

REMINGTON HILLS PHASE 6

DENNY HALL

DURANT, OKLAHOMA

KEY PLAN

DESIGNED BY: DJK

DRAWN BY: DJK

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PROPOSED SITE PLAN

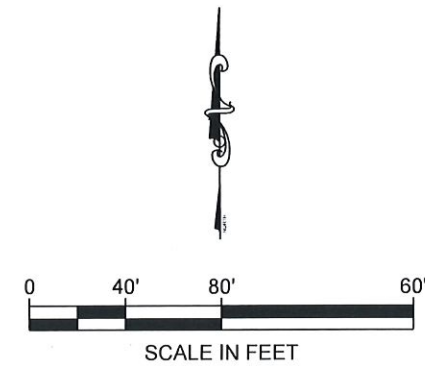
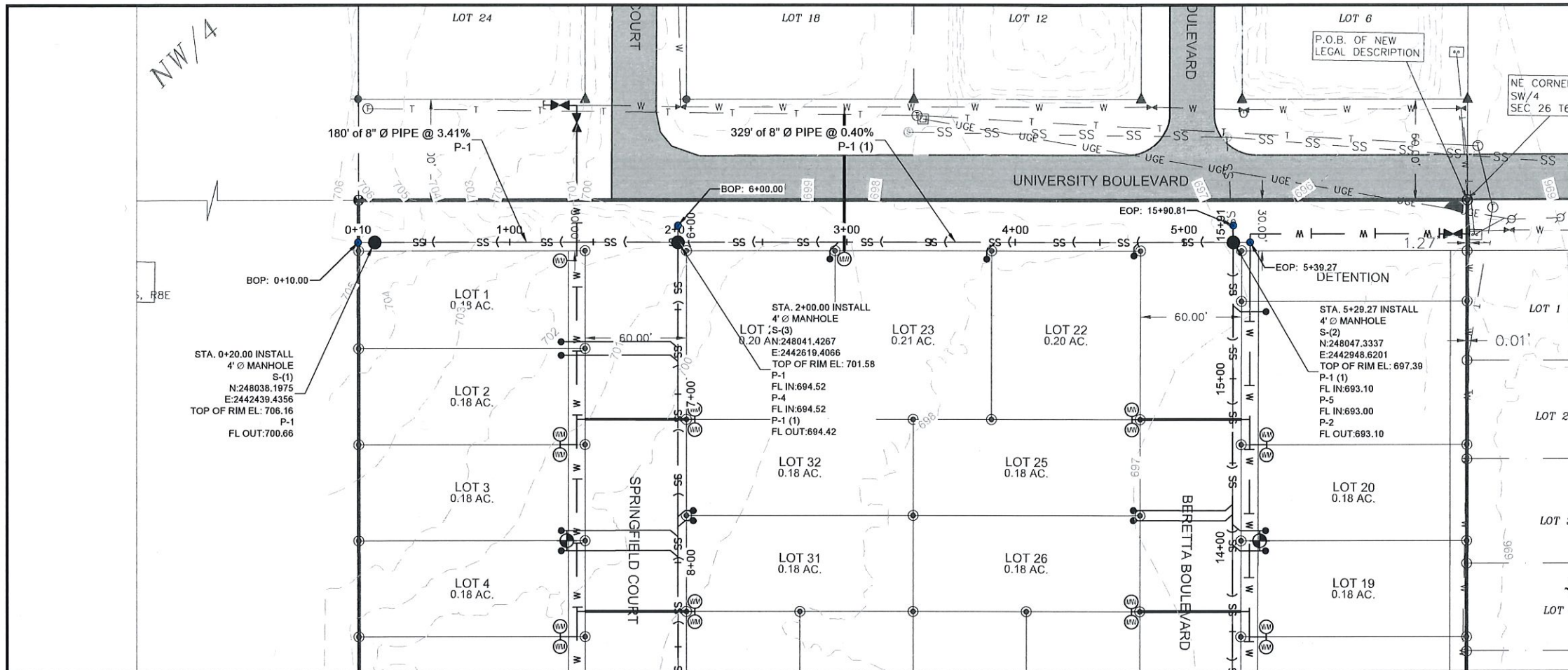
PROJECT NUMBER

10816

STATE DATE
OKLAHOMA FEB. 2022

SHEET NUMBER

C1100



Barker & Associates
 CONSULTING ENGINEERS
 3902 University Blvd.
 Durant, OK 74701
 580.931.9045
 OK, CA, 3998
 EXP. 06/30/2022

CHECKED BY: H. WAYNE BARKER, P.E.

CITY REVIEW SET
2/8/2022

REMINGTON
HILLS PHASE 6

DENNY HALL

DURANT, OKLAHOMA

KEY PLAN

DESIGNED BY: DJK

DRAWN BY: DJK

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SEWER LINE A

PROJECT NUMBER

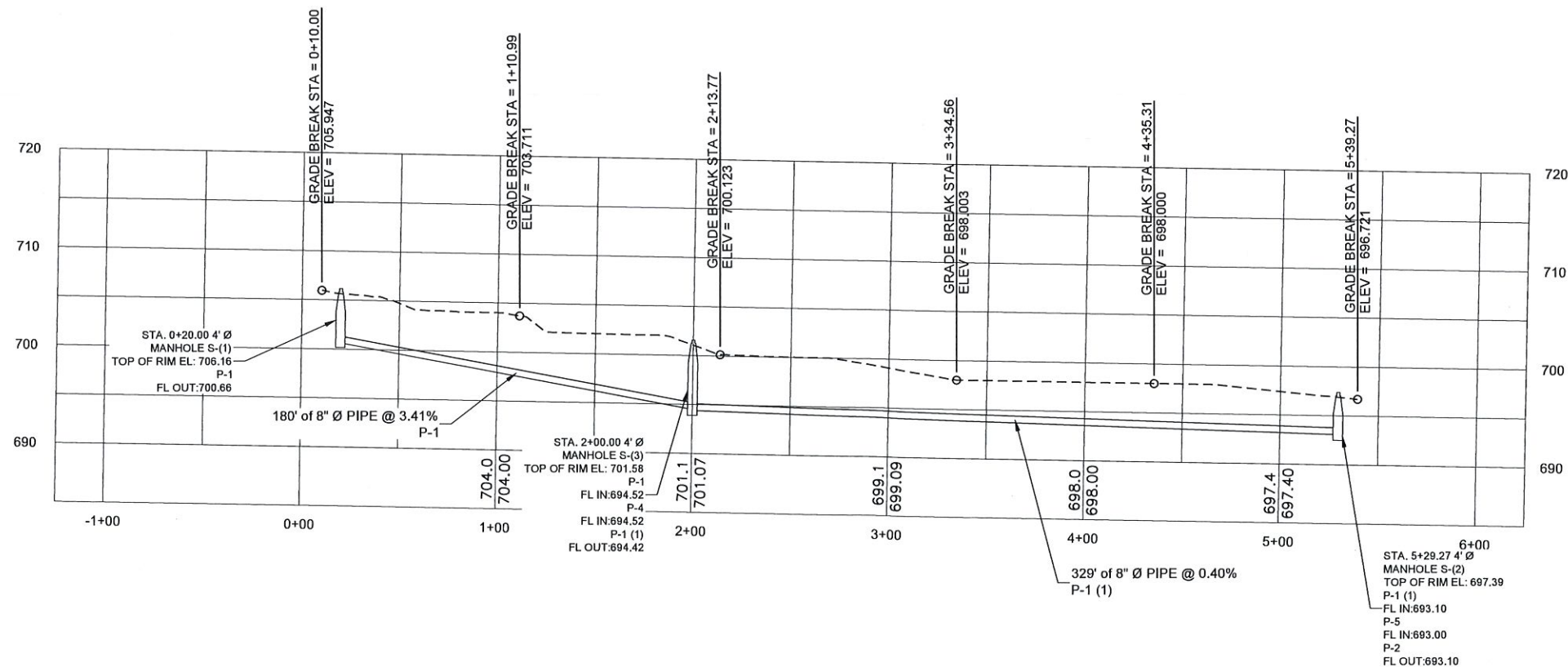
10816

STATE DATE

OKLAHOMA FEB. 2022

SHEET NUMBER

CU200



CITY OF DURANT / DURANT UTILITIES AUTHORITY

SEWER LINE EXTENSION

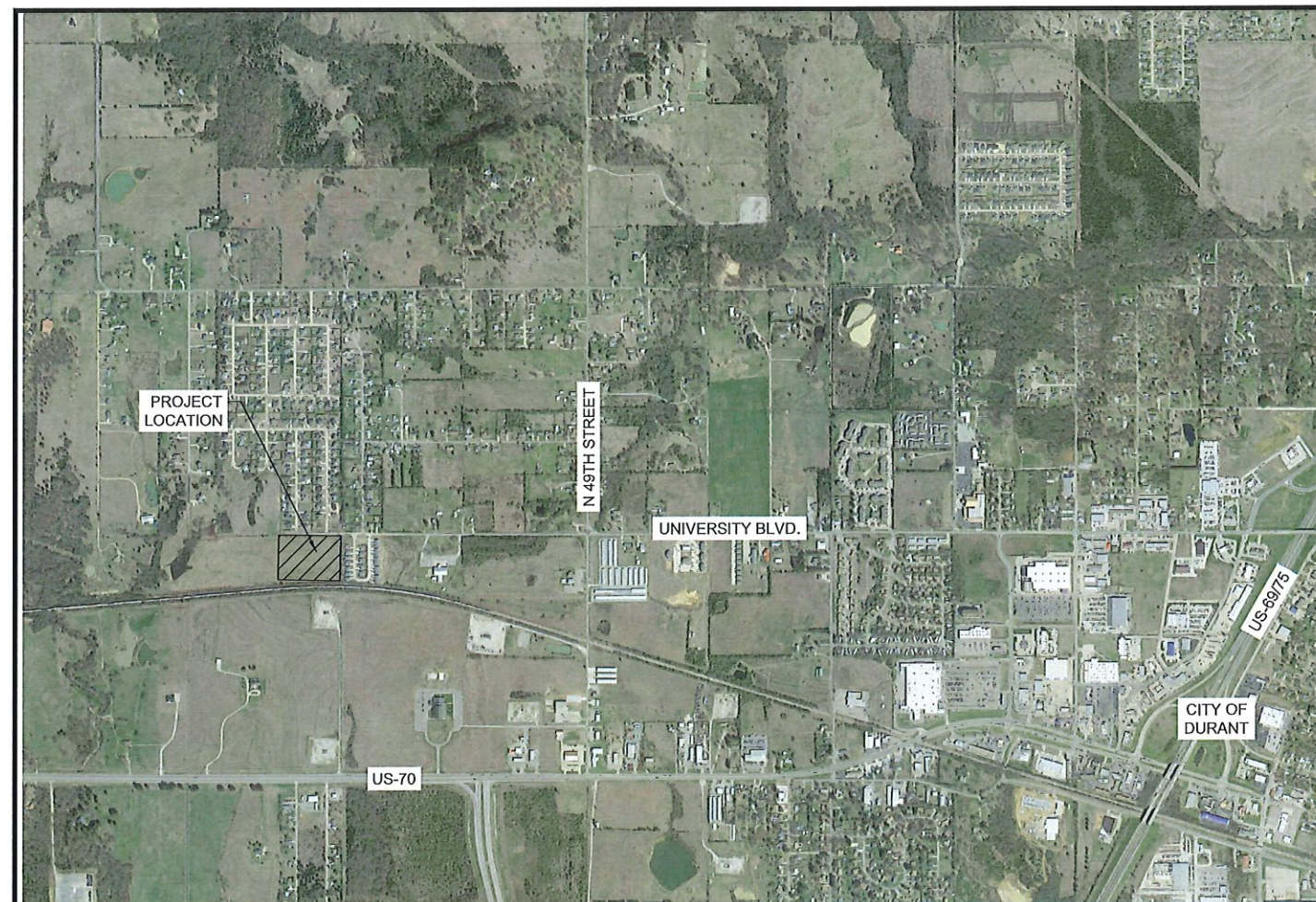
FOR

REMINGTON HILLS PHASE 6

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CU500	SEWER DETAILS
CU501	SEWER DETAILS

DURANT, OKLAHOMA
FEBRUARY, 2022



LOCATION MAP

NOT TO SCALE

ENGINEER:

CITY REVIEW SET
-NOT FOR CONSTRUCTION-
2/8/2022

H. WAYNE BARKER, P.E.
PROJECT MANAGER
OK. NO. 18513

DATE



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THIS DESIGN SPECIFICALLY PREPARED FOR USE AT THE LOCATION SHOWN.
USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE
DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS.

GENERAL NOTES

1. THE CONTRACTOR SHALL HAVE EXISTING UTILITIES LOCATED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL "OKIE" 1-800-522-6543 IN ADDITION TO DIRECT NOTIFICATION. CONTRACTOR SHALL BRACE UTILITY POLES AS NECESSARY. UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
2. THE CONTRACTOR SHALL ESTABLISH, INSTALL, OPERATE, AND MAINTAIN COMPLETE AND ADEQUATE AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER.
3. ALL DIMENSIONS OR ELEVATIONS WITH ± SHALL BE CONFIRMED BY THE CONTRACTOR.
4. ALL DIMENSIONS OF EXISTING STRUCTURES AND EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER & OWNER.
5. TOPSOIL IN THE DISTURBED AREAS SHALL BE REMOVED, STOCKPILED, AND RESTORED AFTER CONSTRUCTION OPERATIONS, IN ACCORDANCE WITH PROJECT SPECIFICATIONS. ALL EXCESS TOPSOIL SHALL BE CONSIDERED WASTE AND STOCKPILED ON-SITE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
6. ALL DISTURBED ROADWAY AND DRIVEWAY SURFACES SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED, UNLESS OTHERWISE NOTED.
7. FALL PROTECTION AROUND ALL OPENINGS AND EXCAVATION SHALL BE MAINTAINED AT ALL TIMES.
8. NORTH ARROWS SHOWN ON DRAWINGS INDICATE LOCAL COORDINATE SYSTEM ESTABLISHED BY THE SURVEYOR, UNLESS OTHERWISE NOTED.
9. TRENCH SAFETY AND SHORING IN ACCORDANCE WITH CURRENT OSHA REGULATIONS SHALL BE EMPLOYED BY CONTRACTOR AT ALL TIMES.
10. IF AT ANY POINT CONSTRUCTION ACTIVITIES EXPOSE ARCHEOLOGICAL MATERIALS SUCH AS CHIPPED STONE, TOOLS, POTTERY, BONE, HISTORIC CROCKERY, GLASS, METAL ITEMS OR BUILDING MATERIALS, THE STATE ARCHEOLOGIST SHALL BE CONTACTED IMMEDIATELY & ALL CONSTRUCTION ACTIVITIES IN THAT AREA HALTED UNTIL FURTHER DIRECTION FROM THE STATE ARCHEOLOGIST.
11. ALL STATIONS SHOWN ON THE PLANS ARE CENTERLINE STATIONS UNLESS NOTED OTHERWISE.
12. THE TOPOGRAPHIC SURVEY WAS COMPLETED BY PAGE SURVEYING. ALL EXISTING INFORMATION IS SHOWN AS ACCURATELY AS POSSIBLE BASE UPON FIELD RECONNAISSANCE AND RESEARCH. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION. IF CONTRACTOR BELIEVES EXISTING INFORMATION IS INACCURATE, THE CONTRACTOR MAY HAVE A NEW SURVEY COMPLETED AT NO ADDITIONAL COST TO THE OWNER, ARCHITECT, OR ENGINEER.
13. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED WHICH CAN BE BACKFILLED IN ONE (1) DAY, WITHOUT APPROVAL OF ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES
14. ALL PAVEMENT REMOVAL AND REPLACEMENT SHALL BE MADE PER STANDARD DETAILS.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING STORM WATER POLLUTION PREVENTION PLAN & SUBMITTING TO AUTHORITY HAVING JURISDICTION.
2. SILT FENCE SHALL BE MAINTAINED AND SEDIMENT BUILDUP REGULARLY REMOVED UNTIL PAVING OPERATIONS ARE COMPLETE AND/OR SEEDING IS IN PLACE AND 75% VEGETATION STABILIZATION IS OBTAINED.
3. ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE AT EACH STRUCTURE, IN A MANNER APPROVED BY THE ENGINEER.
4. ALL FLOW LINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY COMPACTED TO 95% STANDARD PROCTOR DENSITY BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES.
5. IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS, AND AFTER GRADING OPERATIONS ARE COMPLETED, BUT BEFORE PAVEMENT AND/OR PERMANENT EROSION CONTROL WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE OWNERS REPRESENTATIVE.
6. AT THE BEGINNING OF THE TURF OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHALL BE FERTILIZED AND WATERED BUT SHALL NOT BE SEEDED, SODDED OR SPRIGGED.
7. VEGETATIVE MULCH AND SEEDING SHALL BE UTILIZED FOR TEMPORARY EROSION CONTROL.
8. SEED: THE FOLLOWING KINDS OF SEEDS, AT ACRES-RATES INDICATED BELOW, SHALL BE PLANTED ON THE AREAS DESIGNATED FOR SEEDING.

TEMPORARY SEEDING	
KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
COOL SEASON MIX- PERENNIAL RYEGRASS (LOLIUM PERENNE) CRIMSOM CLOVER (TRIFOLIUM INCARNATUM)	20 LBS. OF SEED 12 LBS. OF SEED
WARM SEASON MIX- KOREAN LESPEDEZA (LESPEDEZA STRIATA) CRIMSOM CLOVER (TRIFOLIUM INCARNATUM) LITTLE BLUESTEM (ANDROPOGON SCOPARIUS) COMMON BERMUDA (CYNODON DACTYLON)	12 LBS. OF SEED 20 LBS. OF SEED 12 LBS. OF SEED 4 LBS. OF SEED

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04(b) OF THE ODOT STANDARD SPECIFICATIONS.

SEASONAL PLANTING RESTRICTIONS
THE PLANTING OF SPRIGGING SHALL BE RESTRICTED TO THE PERIOD FROM APRIL 1ST TO JUNE 30TH.

THE PLANTING OF TEMPORARY SEEDS (COOL SEASON MIX) SHALL BE RESTRICTED TO THE PERIOD FROM SEPTEMBER 1ST TO NOVEMBER 15TH.

THE PLANTING OF TEMPORARY SEEDS (WARM SEASON MIX) SHALL BE RESTRICTED TO THE PERIOD FROM MARCH 15TH TO JUNE 30TH.

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 0-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 LBS. PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

UTILITY CONTACTS:

ELECTRIC	OG&E	CHAD LOVELACE	580.224.7558
GAS	ONG	BROOKS DOW	918.831.8278
WATER	CITY OF DURANT	RANDY CANTRELL	580.920.5051
SEWER	CITY OF DURANT	RANDY CANTRELL	580.920.5051
COMMUNICATION	ATA&T	RONNIE GRAGG	918.421.1792

SITE WORK NOTES:

1. CONTRACTOR SHALL DISPOSE OF TREES, STUMPS, DEBRIS, ETC. OFF SITE IN A MANNER APPROVED BY THE OWNER.
2. REMOVE ANY STUMPS, ROOTS LARGER THAN 2 INCHES IN DIAMETER, ROCKS LARGER THAN 3 INCHES AND ANY MATTED ROOTS, TO A DEPTH OF 18 INCHES BELOW ORIGINAL GROUND SURFACE.
3. FOLLOWING INITIAL SITE PREPARATION AND UNDERCUTTING OF THE REQUIRED AREAS, THE EXPOSED SOILS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6-INCHES. MOISTURE CONDITIONED WITHIN 2% BELOW 2% ABOVE THE MATERIAL'S OPTIMUM MOISTURE. RE-COMPACT TO AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. MOISTURE SHALL BE MAINTAINED UNTIL PLACEMENT OF FILL. ALL EXPOSED AREAS THAT WILL REQUIRE STRUCTURAL FILL OR THAT WILL SUPPORT PAVEMENT SHOULD BE CAREFULLY PROOF ROLLED WITH A LOADED TANDEM-AXLE DUMP TRUCK PRIOR TO FILL PLACEMENT OR CONSTRUCTION. TESTING AGENCY SHALL DETERMINE SUBGRADE SUITABILITY.
4. FILL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8-INCHES LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY. FILL SHALL BE TESTED FOR FIELD DENSITY FOR EACH LIFT OF FILL AT FREQUENCIES OF EVERY 1,500 SQ. FT. IN AREA UNDER STRUCTURES. FOR UTILITY TRENCHES, TEST FIELD DENSITY AT FREQUENCIES OF 100 LINEAR FOOT OF TRENCH AND AT FREQUENCIES OF 50 LINEAR FOOT OF ANY UTILITY UNDERNEATH PAVEMENT OR OTHER STRUCTURES.
5. EARTHWORKS SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE PONDING WATER ON THE SUBGRADE. SITE SHALL MAINTAIN DRAINAGE AT ALL TIMES. MOISTURE CONTENT OF SOIL SHOULD BE MAINTAINED NEAR OPTIMUM DURING CONSTRUCTION.
6. CONTRACTOR SHALL BLEND NEW DITCHES AND SLOPES TO MATCH EXISTING DITCHES AND SLOPES AT THE BEGINNING, END AND ALL ROAD INTERSECTIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE MADE.
7. ALL ROCKS AND DEBRIS SHALL BE REMOVED FROM ALL DRAINS PRIOR TO FINAL INSPECTION.

UTILITY NOTES:

1. ALL SANITARY AND PUBLIC WATER SUPPLY IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARD CONSTRUCTION SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SERVICES FROM DAMAGE. UTILITIES SHALL REMAIN IN SERVICE AT ALL TIMES, AND ANY DISRUPTION OF SERVICE SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
3. ALL CONCRETE FOUNDATION STRUCTURES AND MANHOLES SHALL BE CONSTRUCTED ON A MINIMUM THICKNESS OF 4" OF CLEAN COMPACTED CRUSHED ROCK UNLESS OTHERWISE NOTED. SUCH BEDDING SHALL BE APPROVED PRIOR TO CONCRETE PLACEMENT.
4. CONTRACTOR SHALL VERIFY PROPOSED UTILITY LINE ELEVATIONS TO INSURE NO CONFLICTS WITH EXISTING UTILITIES. MINOR FIELD ADJUSTMENTS NECESSARY TO AVOID CONFLICTS SHALL BE COORDINATED WITH THE APPROVAL OF THE ENGINEER.
5. CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE, TYPE AND LOCATION TO INSURE PROPER CONNECTION.
6. ALL BURIED FITTINGS, SUCH AS BENDS, TEES, ETC., SHALL BE BLOCKED FOR THRUST, AS SHOWN ON THE STANDARD DETAIL DRAWING. THIS REQUIREMENT SHALL INCLUDE ALL PRESSURE PIPING AND LOW HEAD (GRAVITY) PIPING. COST SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
7. MINIMUM DEPTH OF COVER SHALL BE 30-INCHES UNLESS OTHERWISE NOTED.
8. NO. 12 COPPER WIRE (TRACER WIRE) AND MYLAR DETECTABLE MARKING TAPE SHALL BE BURIED 12" ABOVE THE TOP OF ALL NON-METALLIC LINES.
9. ALL SERVICE LINES CROSSINGS & TAPS SHALL BE INSTALLED PRIOR TO PAVING.
10. GRAVITY PIPE LENGTHS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
11. GRAVITY SEWER SHALL BE LEAK & DEFLECTION TESTED IN ACCORDANCE W/ SPECIFICATIONS.
12. ALL WATER & SEWER LINE(S), GRAVITY AND PRESSURE PIPELINES, WITHIN THE PROPOSED LIMITS OF PAVING OR SIDEWALKS SHALL BE BACKFILLED WITH CLASS I BEDDING MATERIAL(CRUSHED STONE) TO SUBGRADE ELEVATION. WATER/SEWER LINES OUTSIDE THE LIMITS OF PAVING SHALL BE BACKFILLED IN ACCORDANCE WITH SPECIFICATIONS & DETAILS.
13. ALL MANHOLE TOP OF RIM ELEVATIONS SHOWN SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD TO FIT GRADE.
14. THE PLANS HAVE BEEN PREPARED TO SHOW THE APPROXIMATE LOCATION OF EXISTING KNOWN UTILITIES. THE CONTRACTOR SHALL CONTACT OKIE, EACH RESPECTIVE UTILITY COMPANY AND THE PROJECT OWNER TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. ANY CHANGE IN ALIGNMENT OR GRADE CAUSED BY INTERFERING UTILITIES SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
15. DEPTHS OF ANY EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL AT HIS OWN EXPENSE UNCOVER AND VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES IN ADVANCE OF THE CONSTRUCTION.
16. CONTRACTOR SHALL COORDINATE ANY ACTIVITIES INVOLVING WATER & SANITARY SEWER SYSTEM WITH UTILITY AND OWNER'S REPRESENTATIVE.
17. THE MAXIMUM DEFLECTION AT ANY JOINT OR FITTING SHALL BE 75% OF THE DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER.
18. FLUSHING: ALL WATER LINES SHALL BE FLUSHED TO REMOVE FOREIGN MATTER FROM THE LINES, VALVES AND HYDRANTS. A MIN VELOCITY OF 2.5 FEET PER SECOND SHALL BE OBTAINED DURING FLUSHING. THE FLOW THROUGH EACH FIRE HYDRANT SHALL BE LIMITED TO 500 GALLONS PER MINUTE. THE CONTRACTOR SHALL PROVIDE TEMPORARY VALVES AND FITTINGS REQUIRED FOR FLUSHING.
19. HYDROSTATIC TESTING: ALL NEW WATER LINES SHALL BE TESTED AT 150 PSI FOR A PERIOD OF 3 HOURS. NO LINE WILL BE ACCEPTED UNLESS THE LEAKAGE IS LESS THAN THE ALLOWABLE AS DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{SD \cdot \sqrt{P}}{133200}$$

WHERE L IS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR
WHERE S IS THE LENGTH OF PIPE TESTED IN FEET
WHERE D IS THE NOMINAL DIAMETER OF THE PIPE IN INCHES
WHERE P IS THE TEST PRESSURE IN PSI (150)

20. DISINFECTION: ALL NEW WATER LINES, VALVES AND FIRE HYDRANTS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C691.81. METHODS DESCRIBED IN SEC. 5.1 (TABLET METHOD) OR 5.2 (CONTINUOUS FEED METHOD) SHALL BE USED FOR DISINFECTION. THE CONTRACTOR SHALL COLLECT BACTERIAL SAMPLES, AND DELIVER TO AN APPROVED ENVIRONMENTAL LABORATORY FOR PROCESSING.
21. THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST ALL TAPS, TIE OVERS, VALVES, ETC, AS REQUIRED TO FLUSH, HYDROSTATIC TEST AND DISINFECT ALL NEW LINES PRIOR TO THE LINES BEING PLACED IN SERVICE.
22. ALL WATER LINES SHALL BE BEDDED AND BACKFILLED IN STRICT ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL.
23. A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION (FOR PARALLEL LINES) AND 2 FEET OF VERTICAL SEPARATION (FOR LINES CROSSING) SHALL BE MAINTAINED BETWEEN WATER AND SANITARY SEWER LINES IN ACCORDANCE WITH REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY.

MATERIAL NOTES:

1. WATER PIPE
- 1.1. PIPE WATER LINE PIPE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- 1.1.1. WATERLINES SMALLER THAN 1-1/2" SHALL BE HIGH-DENSITY POLY ETHYLENE (HDPE) DR11 (200 PSI) CONFORM TO ASTM D3350
- 1.1.2. 2" THRU 12" WATER LINES SHALL BE ULTRA-BLUE MOLECULAR ORIENTED POLYVINYL CHLORIDE PIPE (PVC) CONFORM TO ASTM D2214 OR ASTM F1483. OR APPROVED EQUAL BY WATER DISTRICT #2 WITH A MINIMUM CLASS 200 PSI PIPE .
- 1.1.3. WATERLINES AT ROAD, AND CREEK SHALL BE HDPE FUSED PIPE CONFORM TO AWWA C906 DR11 (200 PSI) INSTALLED THROUGH STEEL CASING.
- 1.2. PIPE: SEWER LINE PIPE SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS.
- 1.2.1. GRAVITY SEWER LINE PIPE SHALL BE POLYVINYL CHLORIDE (PVC) AND CONFORM TO ASTM D3034 SDR 26.
2. FITTINGS
- 2.1. FITTINGS FOR PVC PIPE 4" AND LARGER SHALL BE MECHANICAL JOINT, RESTRAINED FITTINGS, GRAY IRON OR DUCTILE CONFORMING TO AWWA C110. FITTINGS 12"AND SMALLER SHALL BE CLASS 250 AND FITTINGS LARGER THAN 12" SHALL BE CLASS 150. COMPACT FITTINGS CONFORMING TO AWWA C153-88 MAY BE USED.
- 2.2. THE INTERIOR OF ALL FITTINGS SHALL HAVE A CEMENT MORTAR LINING CONFORMING TO AWWA C104 AND A ONE MILL EXTERIOR BITUMINOUS COATING CONFORMING TO AWWA C151.
- 2.3. ALL VALVES, BENDS, FITTINGS, ETC., SHALL BE FITTED WITH MIDCO RESTRAINTS. BENDS SHALL BE THRUST BLOCKED WITH CONCRETE AS SHOWN ON SHEETS CU510.
- 2.4. FITTINGS FOR PVC 3" AND SMALLER SHALL BE PVC WITH PUSH ON JOINTS.
3. VALVES AND ACCESSORIES
- 3.1. GATE VALVES SHALL BE IRON BODIED, BRONZE MOUNTED, NON-RISING STEM, RESILIENT SEATED CONFORMING TO AWWA C-509. FIRE HYDRANT WATCH VALVES SHALL HAVE MECHANICAL JOINT BY FLANGE END CONNECTIONS.
- 3.2. ALL GATE VALVES SHALL BE MANUFACTURED BY AVK OR APPROVED EQUAL.
4. TAPPING SLEEVES AND VALVES
- 4.1. TAPPING SLEEVES SHALL BE MUELLER NO. H-615 OR AN APPROVED EQUAL.
- 4.2. TAPPING VALVES SHALL BE MUELLER NO. H-667 OR AN APPROVED EQUAL.
5. SERVICE SETTINGS
- 5.1. SERVICE SETTING SHALL BE INSTALLED BY THE UTILITY OWNER.
6. COUPLINGS
- 6.1. SMITH-BLAIR 441 SIZE OR FORD FC1 OR AN APPROVED EQUAL.
7. PVC CASING SHALL CONFORM TO ASTM D3034 SDR 35.
8. STEEL CASING SHALL CONFORM TO ASTM A53 GRADE B 36000 PSI MIN WALL THICKENS 3/8".
9. METALLIC DETECTOR TAP SIX (6) INCHES WIDE LABELED "CAUTION WATER MAIN BURIED BELOW" SHALL BE INSTALLED APPROXIMATELY 12 TO 24 INCHES BELOW THE SURFACE AND CENTERED ABOVE THE PIPE.

HATCH LEGEND

	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED HOUSE
	PROPOSED DRIVEWAY
	EXISTING ASPHALT

EXISTING LEGEND

— SS — SS — SS — SS —	SEWER LINE
— W — W — W —	WATER LINE
— — — — —	HIGHWAY RIGHT-OF-WAY
— — — — —	16.5' STATUTORY RIGHT-OF-WAY
— GAS — GAS — GAS —	PIPELINE IN VICINITY
— — — — —	BOUNDARY LINE
— X — X — X —	EXISTING WIRE FENCES
— OHE — OHE — OHE —	OVERHEAD ELECTRIC

⊙	SET 1/2" STEEL PIN WITH CAP (PLS1568)	(P)	RECORD PLATTED DATA
⊗	FOUND MAG NAIL	⊗	POWER POLE
⊙	FOUND 1/2" STEEL PIN WITH CAP (PLS 1651)	+	GUY ANCHOR
⊙	FOUND 1/2" STEEL PIN	⊙	SANITARY SEWER MANHOLE
⊙	FOUND BRASS CAP	•	SEWER CLEAN OUT
⊙	FOUND 3/8" STEEL PIN WITH CAP (PLS 215)	⊗	WATER VALVE
⊙	FOUND 3/8" STEEL PIN	⊗	WATER METER
▲	CALCULATED CORNER (NOT SET)	①	TELEPHONE PEDESTAL
(M)	MEASURED FIELD DATA	⊞	COMMUNICATIONS VAULT
		⊞	ELECTRIC TRANSFORMER

PROPOSED SITE LEGEND

— — — — —	PRIVATE UTILITY EASEMENT
— ROW —	RIGHT OF WAY LINE
— — — — —	ROADWAY CENTER LINE
— — — — —	DITCH LINE
— PL —	PROPERTY LOT LINE
— W — W — W —	WATER LINE
— SS — SS — SS —	SEWER LINE
— OHE — OHE — OHE —	OVERHEAD ELECTRIC
— — — — — XXX — — — — —	PROPOSED CONTOURS
⊙ SS	SEWER MANHOLE
⊗	GATE VALVE
⊗	FLUSHING HYDRANT
⊗	TRAFFIC SIGN
⊗	WATER METER

ABBREVIATION LEGEND:

THESE ABBREVIATIONS MAY BE FOUND IN CONSTRUCTION DRAWINGS

ADD'L = ADDITIONAL	GA. = GAUGE	R = RADIUS
BM = BENCH MARK	HIGH PT.= HIGH POINT	RE: = REFERENCE
BVCE = BEGIN VERTICAL CURVE	I.D. = INNER DIAMETER	REQ'D = REQUIRED
ELEVATION	LA = LENGTH OF RIP RAP APRON	R.O.W. = RIGHTS OF WAY
BVCS = BEGIN VERTICAL CURVE	L.F. = LINEAR FOOT	S.F. = SQUARE FOOT
STATION	LOW PT.= LOW POINT	SL. = SLOPE
BW = BOTTOM OF WALL	LP = LENGTH OF FLUME	SQ. = SQUARE
C/C = CENTER TO CENTER	LVC = LENGTH OF VERTICAL CURVE	SSMH = SANITARY SEWER MANHOLE
CET = CULVERT END TREATMENT	MAX. = MAXIMUM	STA. = STATION
CGMP = CORRUGATED GALVANIZED METAL PIPE	MD: = MEASURED DEPTH	T = TANGENT
CL = CENTER LINE	MECH. = MECHANICAL	TC = TOP OF CURB ELEVATION
CMU = CONCRETE MASONRY UNIT	ME EL. = MATCH EXISTING ELEVATION	TF = TOP OF FOOTING
CONC. = CONCRETE	MIN. = MINIMUM	TR: = TOP OF RIM
CONSTR= CONSTRUCT	N: = NOTHING	TW = TOP OF WALL
CTRS = CENTERS	N.T.S. = NOT TO SCALE	TYP. = TYPICAL
DIA. = DIAMETER	O.C. = ON CENTER	W/ = WITH
E. = EASTING	O.C.E.W.= ON CENTER EACH WAY	W.W.F. = WELED WIRE FABRIC
EL = PROPOSED ELEVATION	PC = POINT OF CURVATURE	Z: = ELEVATION
EVCS = END VERTICAL CURVE STATION	P.C.C. = PORTLAND CEMENT	& = AND
EVCE = END VERTICAL CURVE	CONCRETE	Ø = DIAMETER
ELEVATION	PCES = PREFABRICATED CULVERT	@ = AT
ELEVATION	END SECTION	Δ = DELTA
EX. = EXISTING	PRC = POINT REVERSE CURVATURE	⊥ = CENTER LINE
FF = FINISH FLOOR ELEVATION	PT = POINT OF INTERSECTION	
FL: = FLOW LINE	PVI = POINT OF VERTICAL INTERSECTION	
FT. = FOOT		



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REMINGTON
HILLS PHASE 6

DENNY HALL

DURANT, OKLAHOMA

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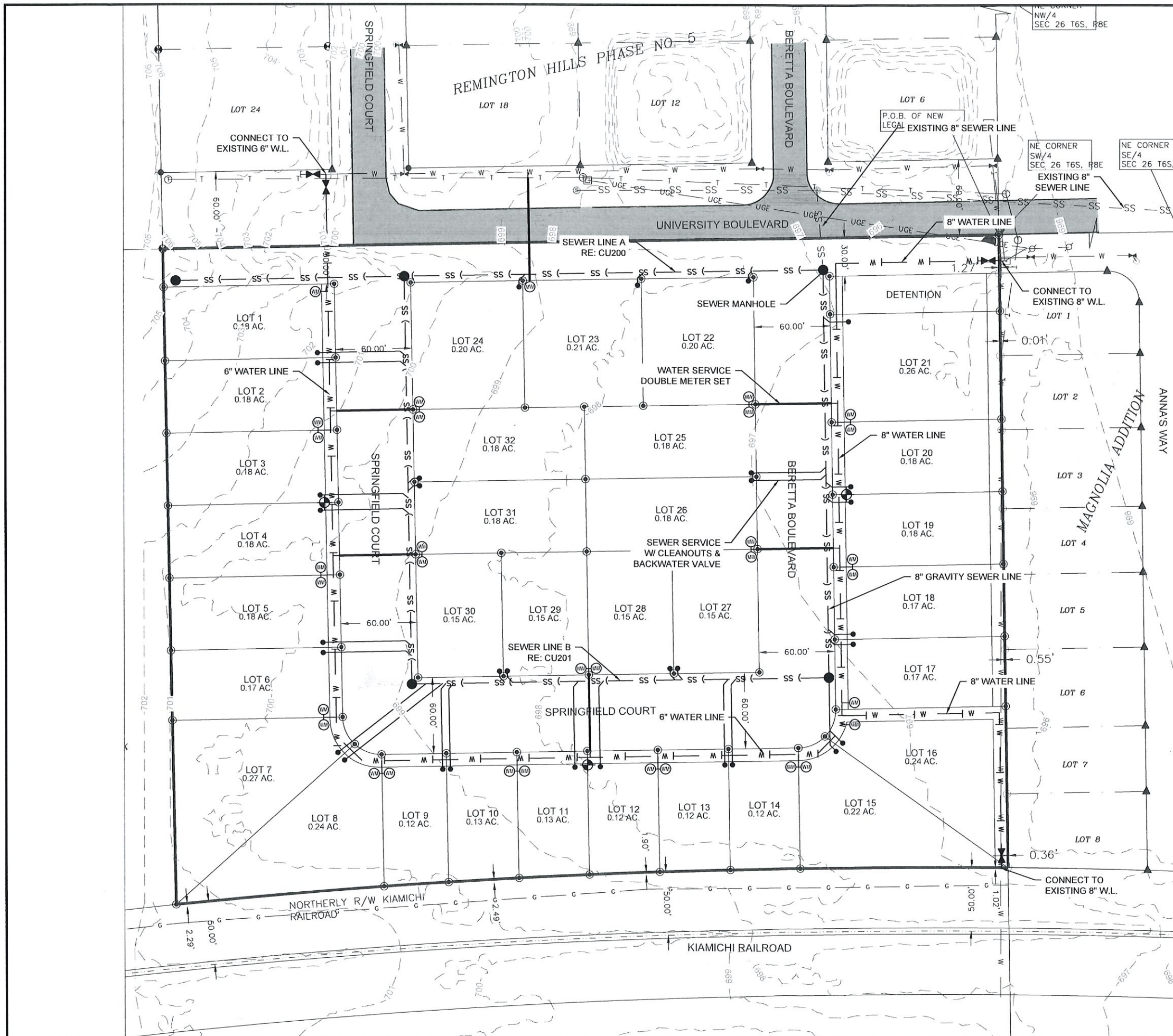
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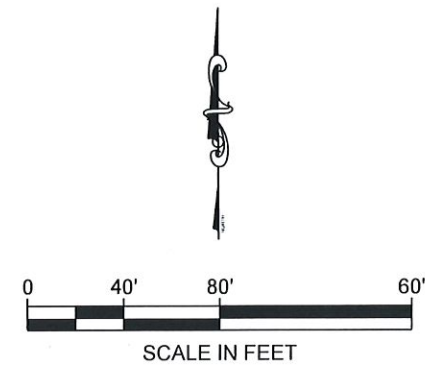
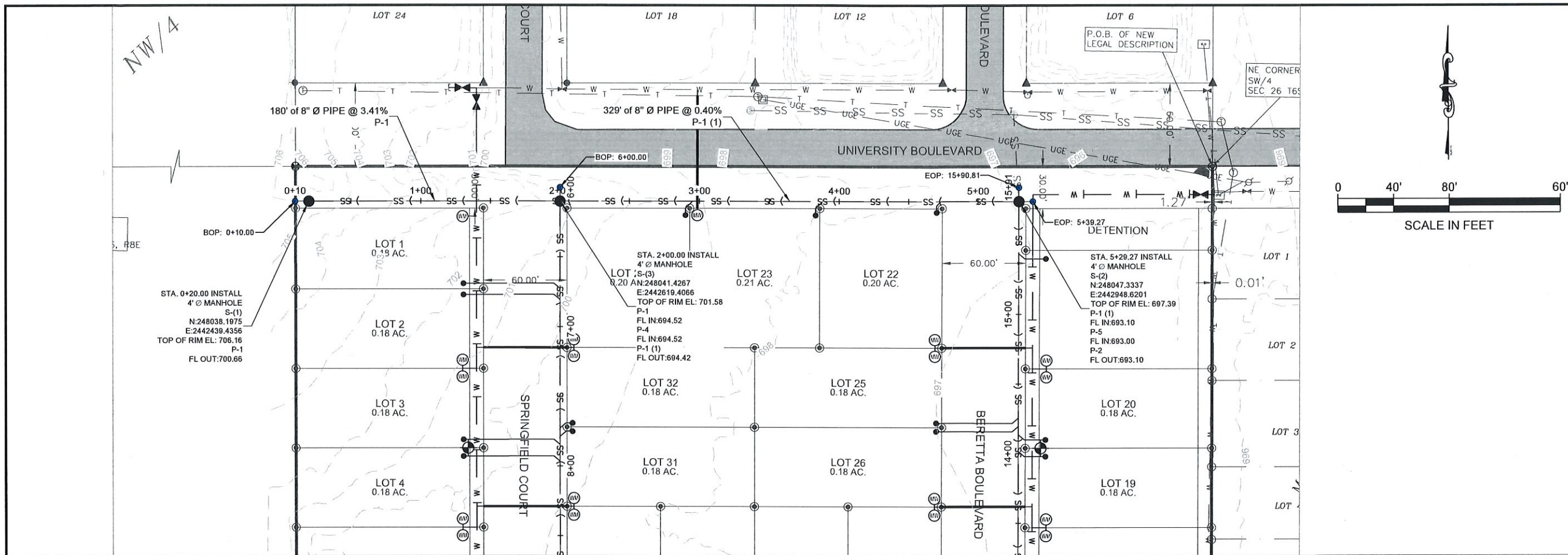
PROPOSED SITE PLAN

PROJECT NUMBER

10816

STATE	DATE
OKLAHOMA	FEB. 2022

SHEET NUMBER
C1100



Barker & Associates
 3902 University Blvd.
 Durant, OK 74701
 580.931.9045
 OK, CA, 3998
 EXP. 06/30/2022

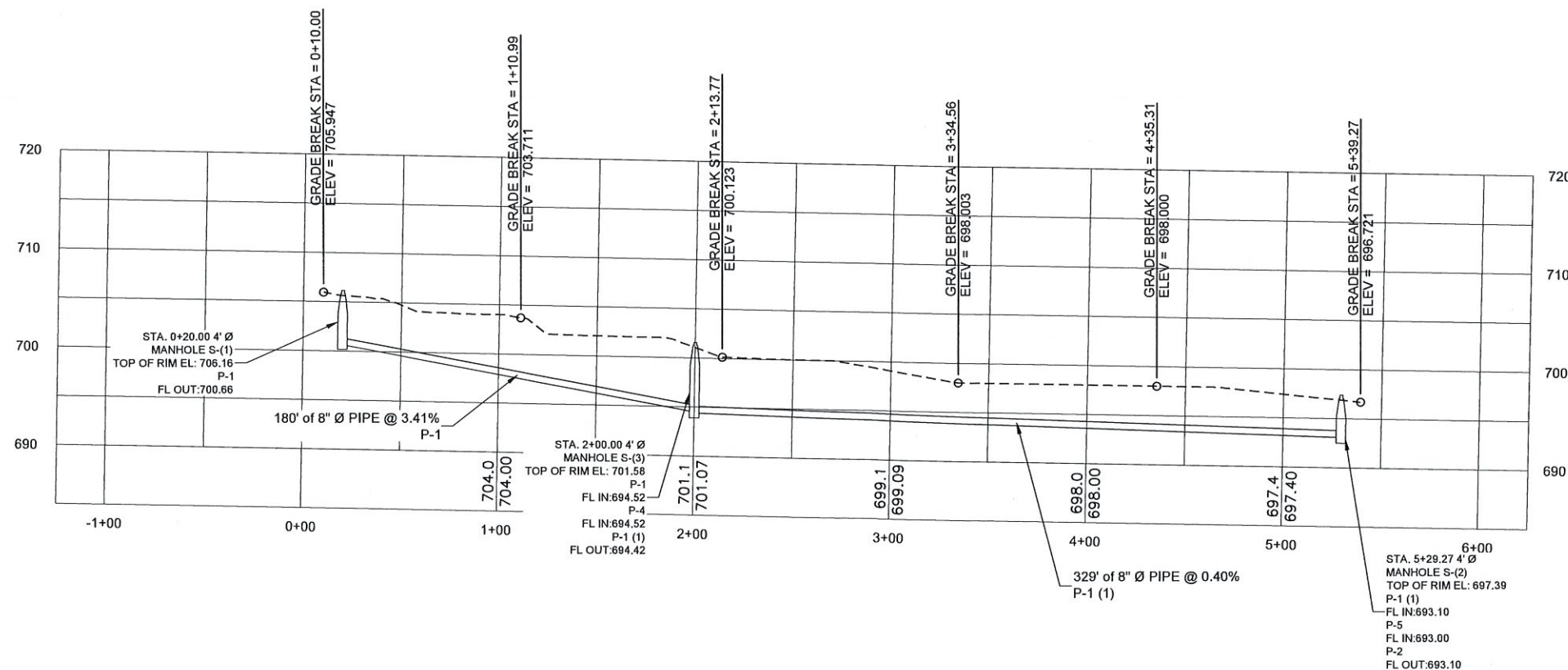
CHECKED BY: H. WAYNE BARKER, P.E.

CITY REVIEW SET
 2/8/2022

REMINGTON
 HILLS PHASE 6

DENNY HALL

DURANT, OKLAHOMA



KEY PLAN

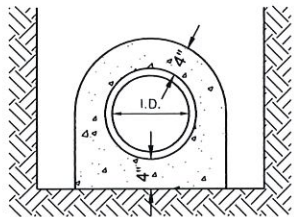
DESIGNED BY: DJK		
DRAWN BY: DJK		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SEWER LINE A

PROJECT NUMBER	
10816	
STATE	DATE
OKLAHOMA	FEB. 2022
SHEET NUMBER	
CU200	

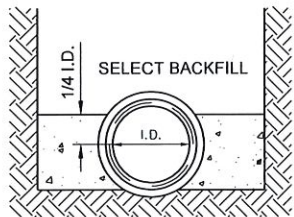
NOTES

1. SELECT FILL CONSIST OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 2 INCHES.
2. CRUSHED ROCK SHALL BE ODOT TYPE "A" BASE. UNDER ALL STREET X-INGS.
3. COMPACTION REQUIREMENTS:
 - a. NON-PAVED AREAS 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
 - b. PAVED AREAS 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOIL.
4. FILLS OVER 10 FEET DEEP - MATERIAL IN THE AREA FROM SELECT FILL TO BEDDING SHALL BE 3/4" CRUSHER RUN WELL GRADED.
5. FLOWABLE FILL MAY BE SUBSTITUTED FOR ALL MATERIALS IN ROAD CROSSING.
6. IN AREAS WHERE WATER INFILTRATION CANNOT BE CONTROLLED BEDDING AND INITIAL BACKFILL SHALL BE MATERIAL CONFORMING TO ODOT SECTION 703.04(A).
7. PIPE IN PROXIMITY TO WATER LINES SHALL COMPLY WITH O.D.E.Q. STANDARDS.
8. ALL FINISHED SUBGRADES SHALL BE PREPARED ACCURATELY BY MEANS OF HAND TOOLS.
9. TRENCH WIDTHS ARE DETAILED IN SPECIFICATION EXCAVATION.



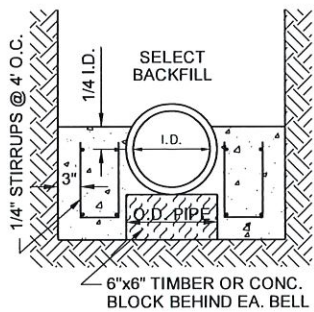
8" I.D.	DIP, RCP	1.41 CF
10" I.D.	DIP, RCP	1.67 CF
12" I.D.	DIP, RCP	1.93 CF
15" I.D.	DIP, RCP	2.36 CF
18" I.D.	DIP, RCP	2.81 CF
21" I.D.	DIP, RCP	3.27 CF
24" I.D.	DIP, RCP	3.76 CF
27" I.D.	DIP, RCP	4.26 CF
30" I.D.	DIP	4.78 CF
30" I.D.	RCP	5.09 CF
36" I.D.	DIP, RCP	5.80 CF
36" I.D.	RCP	6.20 CF

CONCRETE ENCASEMENT
CONCRETE PER LF



8" I.D.	DIP, RCP	1.09 CF
10" I.D.	DIP, RCP	1.23 CF
12" I.D.	DIP, RCP	1.33 CF
15" I.D.	DIP, RCP	1.66 CF
18" I.D.	DIP, RCP	2.00 CF
21" I.D.	DIP, RCP	1.96 CF
24" I.D.	DIP, RCP	2.69 CF
27" I.D.	DIP, RCP	3.52 CF
30" I.D.	DIP	3.38 CF
30" I.D.	RCP	4.40 CF
36" I.D.	DIP, RCP	4.12 CF
36" I.D.	RCP	5.26 CF

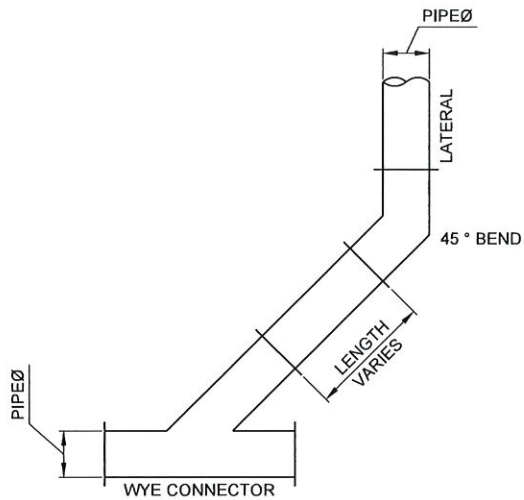
CONCRETE CRADLE
CONCRETE PER LF



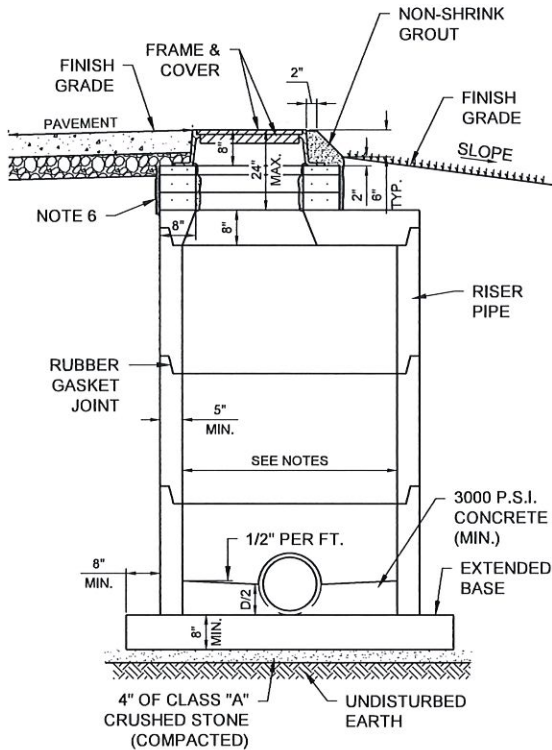
8" I.D.	DIP, RCP	2.34 CF
10" I.D.	DIP, RCP	2.48 CF
12" I.D.	DIP, RCP	2.58 CF
15" I.D.	DIP, RCP	3.04 CF
18" I.D.	DIP, RCP	3.50 CF
21" I.D.	DIP, RCP	3.46 CF
24" I.D.	DIP, RCP	4.44 CF
27" I.D.	DIP, RCP	5.52 CF
30" I.D.	DIP	5.38 CF
30" I.D.	RCP	6.65 CF
36" I.D.	DIP, RCP	6.37 CF
36" I.D.	RCP	7.76 CF

WATER TABLE CRADLE
CONCRETE PER LF

6 CONCRETE ENCASEMENT AND CRADLES
NOT TO SCALE



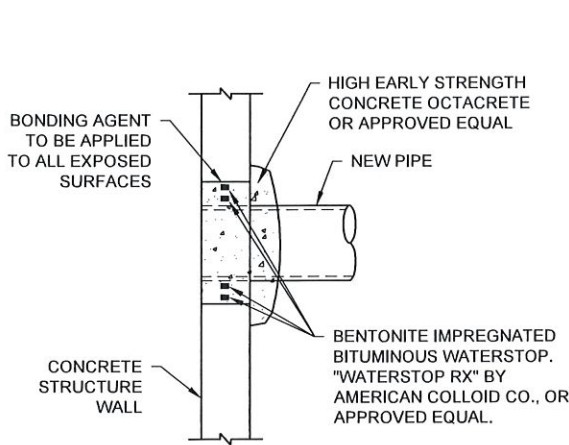
5 PVC WYE CONNECTOR DETAIL
NOT TO SCALE



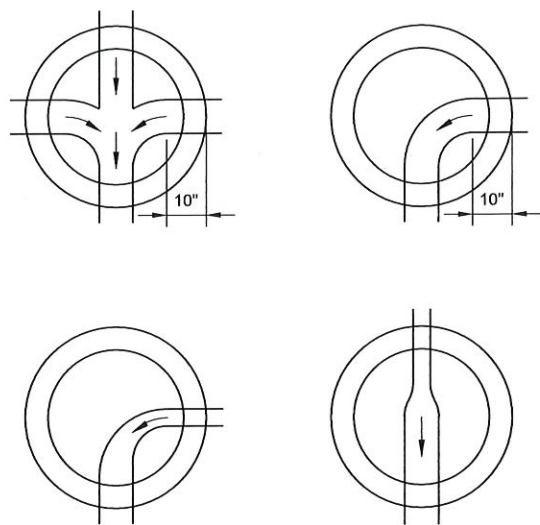
NOTES:

1. PRECAST MANHOLE SHALL CONFORM TO CURRENT ASTM C478.
2. 8" TO 18" PIPE, 4' ID MANHOLE REQUIRED.
3. 21" TO 27" PIPE, 5' ID MANHOLE REQUIRED.
4. OVER 27" PIPE MANHOLE ID AS SPECIFIED BY ENGINEER.
5. MANHOLES LESS THAN 4'-6" IN HEIGHT SHALL HAVE A FULL 4'-0" ID OR LARGER FROM TOP TO BOTTOM.
6. CONTRACTOR SHALL INSTALL 2" OR 4" REINFORCED CONCRETE CONCENTRIC RINGS AS FINISH GRADE REQUIRES WITH BITUMINOUS WRAP.

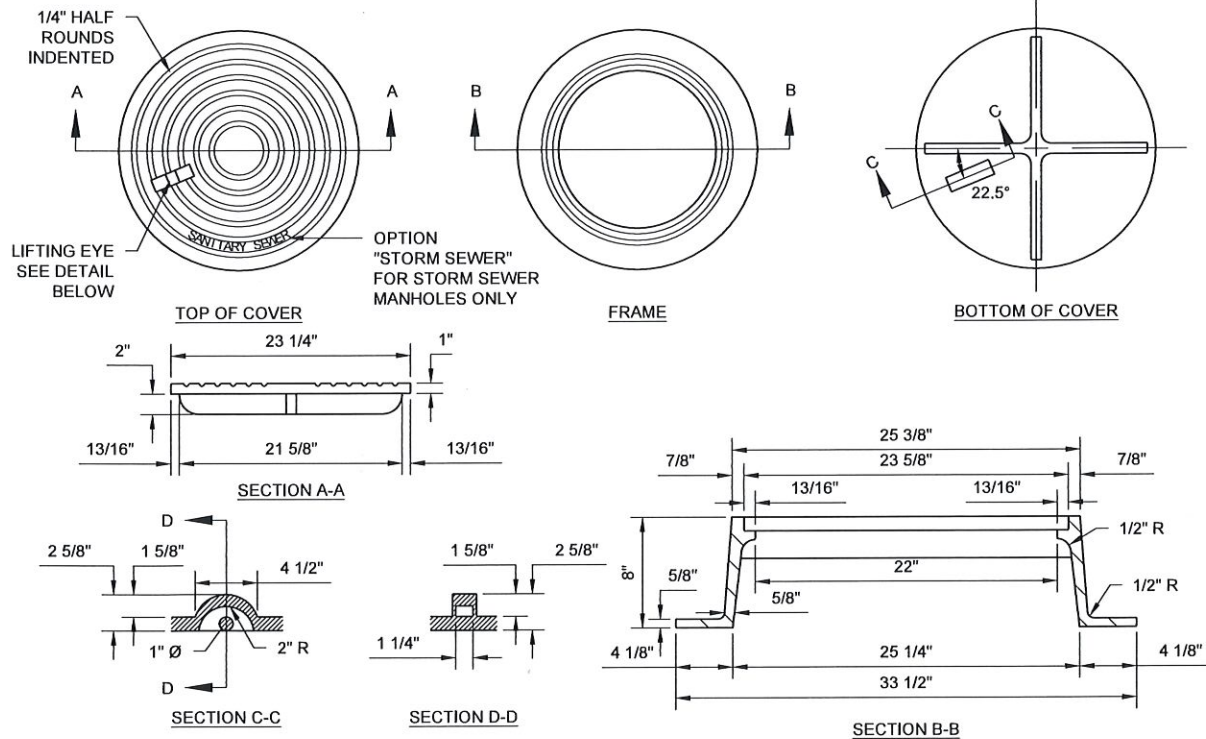
4 PRECAST MANHOLE
NOT TO SCALE



3 NEW PIPE SEAL FOR
PENETRATION THROUGH STRUCTURE
NOT TO SCALE



2 MANHOLE INVERT DETAIL
NOT TO SCALE



NOTES:

1. FOR LOCATION, ORIENTATION, AND ELEVATIONS, SEE CONSTRUCTION DRAWING PLAN SHEETS AND/OR PLAN AND PROFILE SHEETS.
2. PRIOR TO EXCAVATION AND/OR TRENCHING FOR ALL THE NEW SANITARY SEWER LINE, MANHOLES, SERVICE CONNECTIONS ETC., THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THESE EXISTING UTILITIES. FORTY EIGHT (48) HOURS BEFORE YOU DIG CALL OKIE 1-800-522-6543.
3. ALL MATERIALS, CONSTRUCTION ACTIVITIES, TESTING PROCEDURES, ETC. SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE MOST CURRENT EDITION OF OKLAHOMA DEPARTMENT OF ENVIRONMENTAL.
4. FRAME AND COVER SHALL BE 22-INCH Ø SOLID, HEAVY DUTY, CAST IRON FRAME AND COVER W/ 1-INCH LETTERING (SANITARY SEWER) LOCATED ON THE ARC OF THE SOLID COVER, DEETER CASTING NUMBER 1265 BY DEETER FOUNDARY, INC. OR APPROVED EQUAL.
5. INSTALL/SEAL FRAME TO CONCRETE STRUCTURE WITH 2 ROWS OF MASTIC.

1 MANHOLE FRAME & COVER
NOT TO SCALE



CHECKED BY: H. WAYNE BARKER, P.E.

CITY REVIEW SET
2/8/2022

REMINGTON
HILLS PHASE 6

DENNY HALL

DURANT, OKLAHOMA

KEY PLAN

DESIGNED BY: DJK

DRAWN BY: DJK

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SEWER
DETAILS

PROJECT NUMBER

10816

STATE DATE
OKLAHOMA FEB. 2022

SHEET NUMBER

CU500

**Bryan County Rural Water, Sewer and Solid Waste Management
District No. 2**

9077 U.S. Hwy 70
P. O. Box 119
Mead, OK 73449-0119
Website: www.ruralwater2.com

Telephone (580) 924-8517
Fax (580) 931-3911
(TDD/TTY) - 711
Email: rwd2@totalnet.us

February 15, 2022

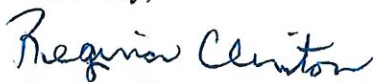
Denny Hall
425 Kolten Dr.
Durant, OK 74701

RE: Remington Hills Phase 6

Dear Mr. Dean,
Bryan County Rural Water Dist. #2 grants permission to the City of Durant to provide sewer service to the Remington Hills Phase 6 Subdivision.

It states in Oklahoma Statute Title 11 Section 22-112.5 which you referred to in your email to Mr. Denny Hall that "the public entity providing sewer or wastewater service to the property may request that the public entity providing water service terminate water service" for delinquent sewer or wastewater bills. It also states that "the public entity providing water service may terminate water service at the subject property". As per our attorney's recommendation, Bryan County Rural Water Dist. #2 does not wish to get involved in terminating water service to those customers that are receiving sewer or wastewater service from another public entity and are delinquent on their sewer or wastewater bills. We are currently overwhelmed with customers that are continuously delinquent on their water bills.

Sincerely,


Regina Clinton, District Manager

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