



**NOTICE
GLENPOOL UTILITY SERVICE AUTHORITY
REGULAR MEETING**

A Regular Session of the Glenpool Utility Service Authority will be held at 6:00 p.m. immediately following the Glenpool City Council Meeting on September 7, 2021 at Glenpool City Hall, City Council Chambers, 12205 S. Yukon Ave., 3rd Floor, Glenpool, Oklahoma.

NOTE: The Glenpool Utility Service Authority will be assembled for the meeting at the City Council Chambers, 12205 S. Yukon Ave, Glenpool, Oklahoma. Members of the public are invited to attend the in-person meeting, or join a live broadcast at this link:

Join Zoom Meeting

<https://us02web.zoom.us/j/89753555435?pwd=QzdFVjA1b0lKa1lSUFlKbUNrUUxtdz09>

Meeting ID: 897 5355 5435

Passcode: 974088

One tap mobile

+13462487799, US (Houston)

+14086380968, US (San Jose)

Dial by your location

+1 253 215 8782 US (Tacoma)

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Meeting ID: 897 5355 5435

Passcode: 974088

Find your local number: <https://us02web.zoom.us/j/89753555435?pwd=QzdFVjA1b0lKa1lSUFlKbUNrUUxtdz09>

The GUSA Board welcomes comments from citizens of Glenpool who wish to address any item on the agenda.

- Speakers attending in **PERSON** are required to complete the Request to Speak form located on the agenda table and return to the City Clerk **PRIOR TO THE CALL TO ORDER**.
- Speakers attending via **ZOOM** are required to complete the Request to Speak form located on our website: <https://glenpoolonline.civicweb.net/document/19057/Request%20to%20Speak%20Form.pdf> and email it to the City Clerk: Wknight@cityofglenpool.com **PRIOR TO 6:00 PM, SEPTEMBER 7, 2021.**

AGENDA

Page

A) **Call to Order - Joyce G. Calvert, Chair**

B) **Roll Call, Declaration of Quorum – Wendy Knight, Secretary; Joyce G. Calvert, Chair**

C) **Scheduled Business**

- 1) Discussion and possible action to approve, deny, amend or revise the minutes from August 2, 2021, and August 16, 2021 meetings.
(Wendy Knight, Secretary)

3 - 10

[GUSA - 02 Aug 2021 - Minutes - Html](#)

[GUSA - 16 Aug 2021 - Minutes - Html](#)

- 2) Discussion and possible action to approve or deny Change Order No. 1 in an amount not to exceed \$7,570.00, for Kendalwood North Park Drainage Project, to be funded from the approved FY 2021/2022 Budget: Account No. 02-6-16-6279 (Special Environmental Project)
(Lynn Burrow, Community Development Director)

11 - 17

[Kendalwood North Park Drainage Improvement Project Change Order No. 1](#)

D) Adjournment

This notice and agenda was posted at Glenpool City Hall, 12205 S. Yukon Ave., Glenpool, Oklahoma, on September 3, 2021, by 4:00 pm.

Signed: Wendy Knight

Secretary



MINUTES
GUSA Meeting
Monday, August 2, 2021 Council Chambers 6:00 PM

TRUSTEES PRESENT: Joyce Calvert
Brandon Kearns
Tim Fox
Chris Brobst
Jacqueline Triplett-Lund

STAFF PRESENT: David Tillotson
Susan White
Lynn Burrow

STAFF ABSENT: Lowell Peterson
Wendy Knight
Jim Martin

A Call to Order - Joyce G. Calvert, Chair

Chair Calvert called the meeting to order at 6:38 p.m.

**B Roll Call, Declaration of Quorum – Susan White, Asst. City Manager;
Joyce G. Calvert, Chair**

Susan White called the roll and Chair Calvert declared a quorum present.

C Scheduled Business

- 1) Discussion and possible action to approve, deny, or amend the minutes from July 6, 2021 meeting.
(Susan White, Asst. City Manager)

Moved by Jacqueline Triplett-Lund, seconded by Joyce Calvert

To approve the minutes as presented.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			

Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

[GUSA - 06 Jul 2021 - Minutes - Html](#)

- 2) Presentation and discussion of Wastewater Master Plan Executive Summary prepared by Tetra Tech. No action will be taken.
(David Tillotson, City Manager)

Alexie Kendrick and Ben Miller from Tetra Tech offered a power point presentation of the Wastewater Master Plan which identified updates and improvements to the existing wastewater infrastructure. Following the presentation Vice Chair Kearns asked Lynn Burrow, Community Development Director to affirm that he doesn't have enough staff to create as-builts of the existing sewer line infrastructure. Mr. Burrow confirmed. Vice Chair Kearns requested those comments be made part of the record.

Presentation only.

No action taken.

[Staff Report - Sewer Executive Summary Presentation](#)
[2021 Wastewater Master Plan Executive Summary](#)
[Wastewater Master Plan - GUSA Presentation 8-2-21_Rev1bjm](#)

- 3) Discussion and possible action to approve or deny a quote received from Interstate Electric Corporation for the repair of two liftstation pumps at the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$13,770.00, to be funded from the approved FY 21/22 Budget: Account No. 02-6-16-6272: Equipment Repair and Maintenance, and to authorize the City Manager to execute the same.
(Lynn Burrow, Community Development Director)

Moved by Brandon Kearns, seconded by Joyce Calvert

To approve quote from Interstate Electric Corporation as presented and authorize the City Manager to execute quote.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			

Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

Liftstation Pump Repair

- 4) Discussion and possible action to approve or deny a quote received from Automatic Engineering of Broken Arrow for the repair of an air blower unit operating at the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$10,225.50, to be funded from the approved FY 21/22 Budget: Account No. 02-6-16-6272: Equipment Repair and Maintenance, and to authorize the City Manager to execute the same. (Lynn Burrow, Community Development Director)

Moved by Chris Brobst, seconded by Jacqueline Triplett-Lund

To approve quote from Automatic Engineering of Broken Arrow as presented and authorize the City Manager to execute quote.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

Treatment Plant Air Blower Repair

- 5) Discussion and possible action to approve or deny a quote received from Environmental Improvements, Inc. for two new chemical feed pumps and related equipment at the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$17,079.00, to be funded from the approved FY 21/22 Budget: Account No. 02-6-16-6272: Equipment Repair and Maintenance, and to authorize the City Manager to execute the same. (Lynn Burrow, Community Development Director)

Moved by Tim Fox, seconded by Jacqueline Triplett-Lund

To approve quote from Environmental Improvements, Inc. as presented and authorize the City Manager to execute the quote.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

Waster Water Treatment Plant Equipment Replacement

- 6) Discussion and action to designate Frank Ordaz as signatory on bank account(s).
(David Tillotson, City Manager)

Moved by Brandon Kearns, seconded by Tim Fox

To designate Frank Ordaz, Finance Director as signatory on bank accounts.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

- 7) Discussion and possible action to approve, endorse and ratify as its own, or amend, reject or deny approval by the City Council on July 6, 2021, of the Contract Bid received from JE Dirt Wurx, LLC, for the Kendalwood North Park Drainage Improvement Project in a total amount not to exceed \$102,200.00, and to confirm or withdraw authorization of the City Manager to execute the same. This project will be funded from the approved FY 21/22 Budget Item No. 02-6-16-6279: SEP Projects.
(David Tillotson, City Manager)

Moved by Jacqueline Triplett-Lund, seconded by Chris Brobst

to endorse and ratify approval by the City Council on July 6, 2021, of the

GUSA
August 2, 2021

Contract Bid from JE Dirt Wurx, LLC for the Kendalwood North Park Drainage Improvement Project as presented, and to confirm authorization of the City Manager to execute the same.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

[Staff Report - Kendalwood Park Drainage Project](#)

D Adjournment

- 1) Meeting was adjourned at 7:23 p.m.



MINUTES
GUSA Special Meeting
Monday, August 16, 2021 Council Chambers 6:00 PM

TRUSTEES PRESENT: Joyce Calvert
Brandon Kearns
Tim Fox
Chris Brobst
Jacqueline Triplett-Lund

STAFF PRESENT: David Tillotson
Susan White
Lowell Peterson
Wendy Knight
Frank Ordaz
Jim Martin

- A) Call to Order - Joyce G. Calvert, Chair**
Chair Calvert called the meeting to order at 7:56 p.m.
- B) Roll Call, Declaration of Quorum – Wendy Knight, Secretary; Joyce G. Calvert, Chair**
Wendy Knight called the roll, Chair Calvert declared a quorum present.
- C) Scheduled Business**
- 1) Discussion and possible action to approve or deny a quote received from Kubota Construction Equipment of Tulsa for the purchase of a Kubota Compact Excavator, in a total amount not to exceed \$69,602.43, with \$34,801.22 of the total amount to be funded from the approved FY 21/22 Budget Account No. 02-6-16-6333: Capital Purchases, and to authorize the City Manager to execute the same.
(Lynn Burrow, Community Development Director)
- Mr. Tillotson recommended Board approval of a quote received from Kubota Construction Equipment of Tulsa for the purchase of a Kubota Compact Excavator, in a total amount not to exceed \$69,602.43, with \$34,801.22 of the total amount to be funded from the approved FY

21/22 Budget Account No. 02-6-16-6333: Capital Purchases.

Moved by Jacqueline Triplett-Lund, seconded by Chris Brobst

To approve a quote received from Kubota Construction Equipment of Tulsa for the purchase of a Kubota Compact Excavator, in a total amount not to exceed \$69,602.43, with \$34,801.22 of the total amount to be funded from the approved FY 21/22 Budget Account No. 02-6-16-6333: Capital Purchases, and to authorize the City Manager to execute the same.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

[GUSA Presentation 08 16 21 Track Hoe Purchase](#)

- 2) Discussion and possible action to approve or deny a quote received from Automatic Engineering of Broken Arrow for the purchase of a ROOTS 711 Ural Blower, for the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$12,087.50, to be funded from the approved FY 21/22 Budget Account No. 02-6-16-6272: Equipment Repair and Maintenance, and to authorize the City Manager to execute the same.
(Lynn Burrow, Community Development Director)

Mr. Tillotson presented and recommended Board approval of a quote received from Automatic Engineering of Broken Arrow for the purchase of a ROOTS 711 Ural Blower, for the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$12,087.50, to be funded from the approved FY 21/22 Budget Account No. 02-6-16-6272: Equipment Repair and Maintenance. As noted in the proposal, the existing pump was inspected in detail and was determined to be rebuildable. The GUSA Board approved the repair during the August 2nd meeting. Due to a backlog in a major part not being available until January 2022, staff is requesting Board consideration to move ahead with the purchase of this new replacement pump.

Moved by Jacqueline Triplett-Lund, seconded by Tim Fox

To approve a quote received from Automatic Engineering of Broken Arrow for the purchase of a ROOTS 711 Ural Blower, for the Glenpool Wastewater Treatment Plant, in a total amount not to exceed \$12,087.50, to be funded from the approved FY 21/22 Budget Account No. 02-6-16-6272: Equipment Repair and Maintenance, and to authorize the City Manager to execute the same.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Brandon Kearns	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
	5	0	0	0

CARRIED.

[GUSA Presentation 08 16 21 Wastewater Plant Blower Pump Replacement](#)

D) Adjournment

Chair Calvert declared the meeting adjourned at 7:59 p.m.



MEMORANDUM

TO: CHAIRMAN AND BOARD MEMBERS
GLENPOOL UTILITY SERVICES AUTHORITY

FROM: LYNN BURROW, PE
COMMUNITY DEVELOPMENT DIRECTOR

RE: KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENT
PROJECT: REQUEST FOR CHANGE ORDER NO. 1

DATE: SEPTEMBER 7, 2021

BACKGROUND

This item is for Board consideration and action regarding a request for Change Order No. 1 received from Durt Wurx, LLC in the amount of \$7,570.00. The request covers additional erosion control measures proposed for the Kendalwood North Park drainage improvement project. The additional cost would cover the installation of shredded and blown hay as a topping for the seeded areas that have been re-graded as part of the original scope of work covered under the base contract with Durt Wurx. The addition of this type of protective cover will help prevent erosion and siltation due to excessive rain events that may be encountered during the re-vegetation period of this project. The shredded hay cover will also help retain ground moisture to promote more rapid sprouting of grass cover in the seeded areas involved with this project. As noted in the proposal from Durt Wurx, the shredded and blown hay method is significantly less costly than a hydro-mulch type seeding option and has proven to be a less costly but an effective measure to keep erosion under control until re-vegetation occurs on many ODOT projects. If approved, Change Order No. 1 would be funded from the 2021/2022 Annual Budget under Item No. 02-6-16-6279 (Special Environmental Project)) as was the original base project. Total project cost would then be \$109,770.00.

Staff Recommendation:

Staff is recommending Board approval of Change Order No. 1 as submitted by Durt Wurx, LLC in an amount not to exceed \$7,570.00 needed to assist in erosion control and the overall re-vegetation of disturbed areas within Kendalwood North Park.

Attachment:

- A. Request for Change Order No. 1: Durt Wurx, LLC.
- B. Kendalwood North Park Improvement Plan

12205 S. Yukon, Glenpool, OK 74033 OFFICE: 918-322-5409 FAX: 918-209-4641

Mayor Joyce Calvert, Ward 3; Vice-Mayor Brandon Kearns, At-Large;

Tim Fox, Ward 1; Chris Brobst, Ward 2; Jacqueline Lund, Ward 4

City Manager David Tillotson, Assistant City Manager Susan White, City Clerk Wendy Knight

www.glenpoolonline.com

Dirt Wurx, LLC
1206 SE 15th St
Wagoner, OK 74467

Proposal

Kendalwood park

Spread hay across disturbed area at Kendalwood park

Total - \$7,570.00

Hydro seed option

Total - \$24,250.00

Josh Eidson
Dirt Wurx, LLC
918-770-6914 - Phone
soybees@peoplepc.com

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF GLENPOOL ENGINEERING SERVICES DEPARTMENTS STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF GLENPOOL SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE CITY OF GLENPOOL MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF GLENPOOL OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS , EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF GLENPOOL TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE STREETS AND STORMWATER REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE CITY OF GLENPOOL, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE CITY OF GLENPOOL PRIOR TO BEGINNING WORK.
11. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
12. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE CITY OF GLENPOOL. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
13. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.
14. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE CITY OF GLENPOOL'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.

UTILITY OWNERS

GAS - 800-458-4251 OKLAHOMA NATURAL GAS
ELECTRIC - 800-272-9741 OKLAHOMA GAS & ELECTRIC
918-756-0633 EAST CENTRAL ELECTRIC CO-OP (SOUTH)
WATER/SEWER - 918-322-5442 CITY OF GLENPOOL

NOTE:

THE UTILITIES SHOWN HEREIN ARE REPRESENTATIONAL ONLY AND ARE IN NO WAY INTENDED TO SHOW THEIR EXACT LOCATION, NOR IS THIS INFORMATION TO BE CONSTRUED AS A COMPLETE INVENTORY OF ALL UTILITIES AT THIS LOCATION. IT IS THE EXCAVATOR'S RESPONSIBILITY TO HAVE ANY UTILITIES LOCATED BEFORE DIGGING.



CALL OKIE811 To submit a locate request:
By phone, dial 811 or 1 (800) 522-OKIE (6543)

Designed By: <u>DLC</u>	5	---	---	---	---
Drawn By: <u>HH</u>	4	---	---	---	---
Checked By: <u>DLC</u>	3	---	---	---	---
Issue Date: <u>5/24/21</u>	2	---	---	---	---
	1	---	---	---	---
	REV.	DATE	REVISIONS	BY	APP'D
CERTIFICATE OF AUTHORITY OK: 8104					
COPYRIGHT © 2021 - MIDWEST ENGINEERING GROUP, LLC					



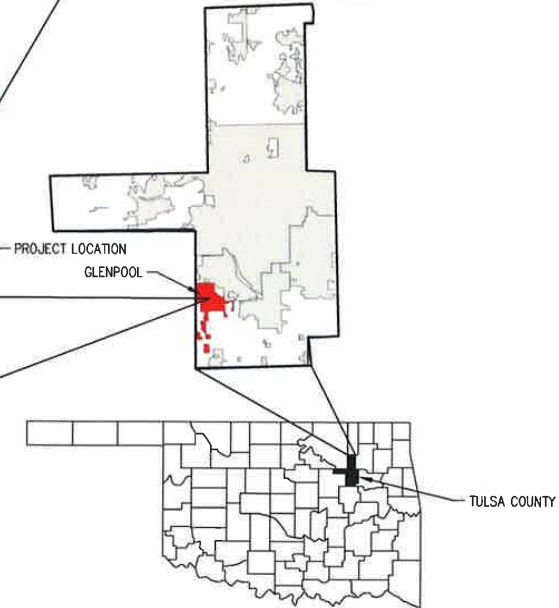
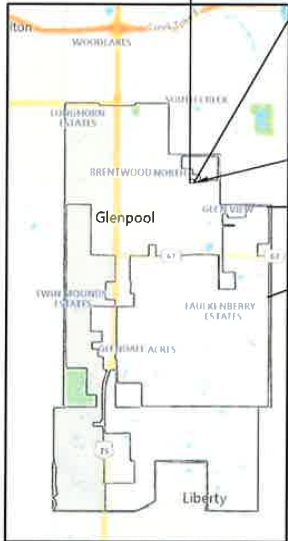
25-A N. MAIN ST., SAPULPA, OK 74066
TEL: 918.264.9405



KENDALWOOD NORTH PARK
DRAINAGE IMPROVEMENTS



NTS



GLENPOOL, TULSA COUNTY, OKLAHOMA

SHEET INDEX

C1	COVER SHEET
C2	EXISTING SITE PLAN
C3	PRELIMINARY MASTER SITE PLAN
C4	GRADING PLAN
C5	DRAINAGE PLAN
C6	EROSION CONTROL PLAN
C7-C8	STORM SEWER PLAN & PROFILE
C9	EROSION CONTROL DETAILS
C10	STORM SEWER DETAILS

KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

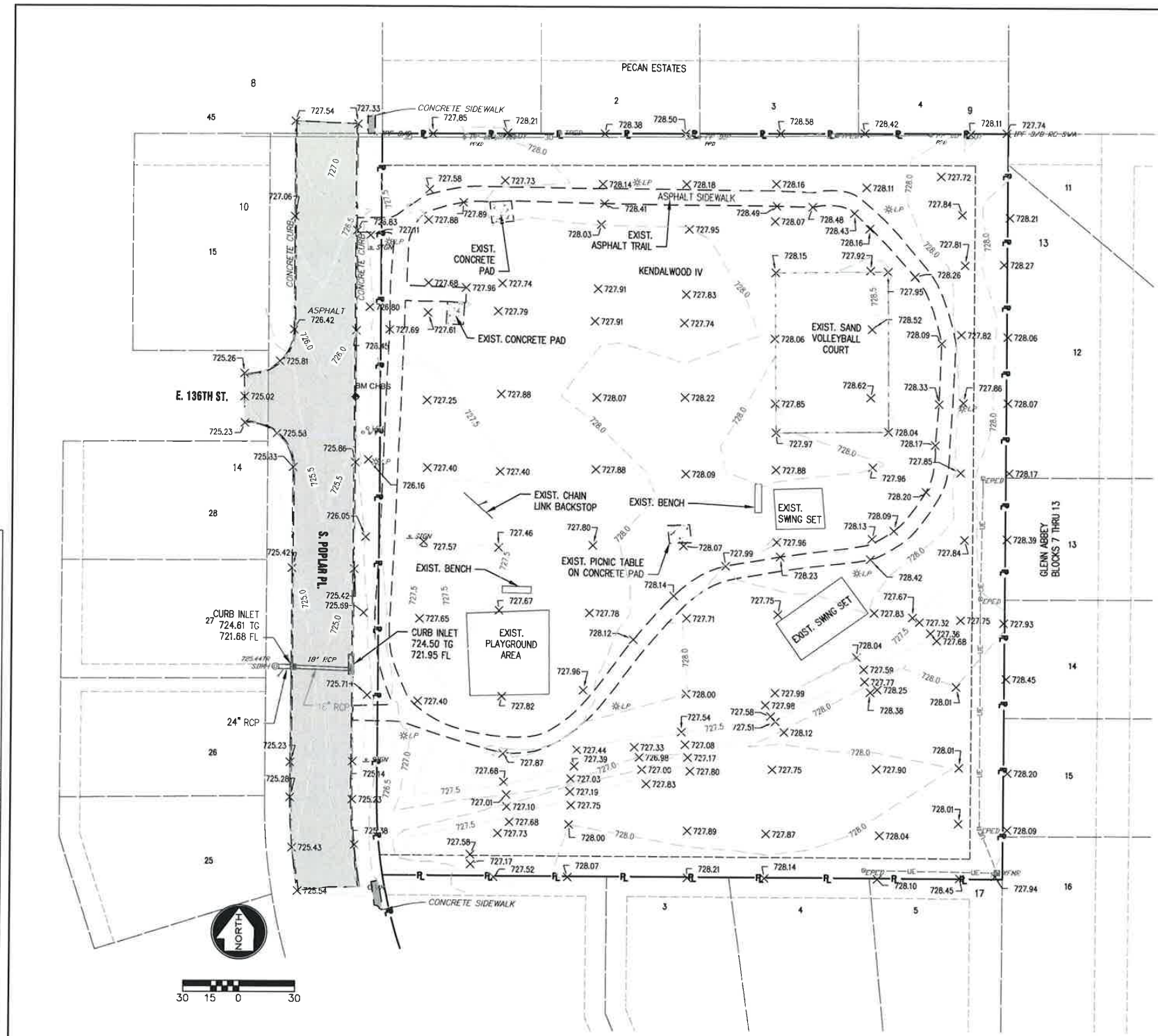
COVER SHEET

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001
SHEET NO.

C1

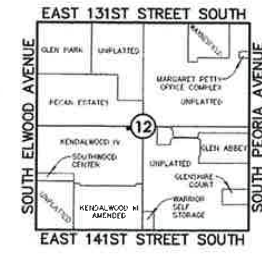
D:\SYNG PROJECTS\SYNG PROJECTS\2021-GLENPOOL-07-001 CAD\EXIST-SITE.DWG
DATE: 5/24/2021
LAYOUT: EXISTING CONDITIONS BY: JEFF ZIMMERMAN
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE



- EXISTING POINT LEGEND (BY OTHERS)
- CHBS CHISELED BOX SET
 - EP EDGE PAVING
 - EPED ELECTRIC PEDESTAL
 - FL FLOW LINE
 - LP LIGHT POLE
 - OE OVERHEAD ELECTRIC
 - PP POWER POLE
 - PP, DIP POWER POLE WITH DIP
 - RCP REINFORCED CONCRETE PIPE
 - R/W RIGHT-OF-WAY
 - SH SPRINKLER HEAD
 - SDMH STORM DRAIN, MANHO
 - TC TOP CURB
 - TPED TELEPHONE PEDESTAL
 - TR TOP OF RIM
 - TW TOP WALK
 - UE UNDERGROUND ELECTR
 - WM WATER METER
 - WV WATER VALVE
 - XFMR TRANSFORMER

- SURVEY NOTES (BY OTHERS)
- A. THIS IS NOT A BOUNDARY SURVEY. THIS TOPOGRAPHIC MAP IS PREPARED FOR THE SOLE PURPOSE OF OBTAINING ELEVATION DATA WITHIN THE SITE AREA. SURVEYOR DID NOT RESEARCH PROPERTY LINES, EASEMENTS, OR OTHER ENCUMBRANCES THAT MAY AFFECT SUBJECT TRACT.
 - B. ELEVATIONS SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
 - C. THIS MAP MEETS OR EXCEEDS THE MINIMUM MAPPING STANDARDS OF UNITED STATES NATIONAL MAP ACCURACY STANDARDS FOR TOPOGRAPHIC MAPPING.
 - D. ALL UTILITIES MAY NOT BE SHOWN. SURVEYOR DID NOT RESEARCH UTILITIES OR REQUEST UTILITY LOCATES.

BENCHMARK 1 BM CHBS
CHISELED BOX SET ON THE TOP OF CURB
APPROXIMATELY 21' EAST OF THE CENTER LINE OF
THE INTERSECTION OF EAST 136TH STREET SOUTH
AND SOUTH POPLAR PLACE.
ELEVATION = 726.16' (NAVD 88)



Location Map
Scale: 1" = 200'

TOPOGRAPHIC EXHIBIT
LOT 1, BLOCK 18 OF
KENDALWOOD IV
CITY OF GLENPOOL, TULSA COUNTY, OKLAHOMA

- LEGEND
- PROPERTY LINE
 - LOT LINE
 - RIGHT-OF-WAY
 - EASEMENT
 - CURB
 - ASPHALT PAVEMENT
 - EXISTING ASPHALT TRAIL

TOPOGRAPHIC SURVEY PERFORMED BY OTHERS



Designed By: JAZ	5	---	---	---	---
Drawn By: JH	4	---	---	---	---
Checked By: D.C.	3	---	---	---	---
Issue Date: 5/24/21	2	---	---	---	---
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	REV.	DATE	REVISIONS	BY	APP'D
	CERTIFICATE OF AUTHORITY KS: E-2900				
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Midwest
ENGINEERING GROUP, LLC
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TEL: 918.264.9405



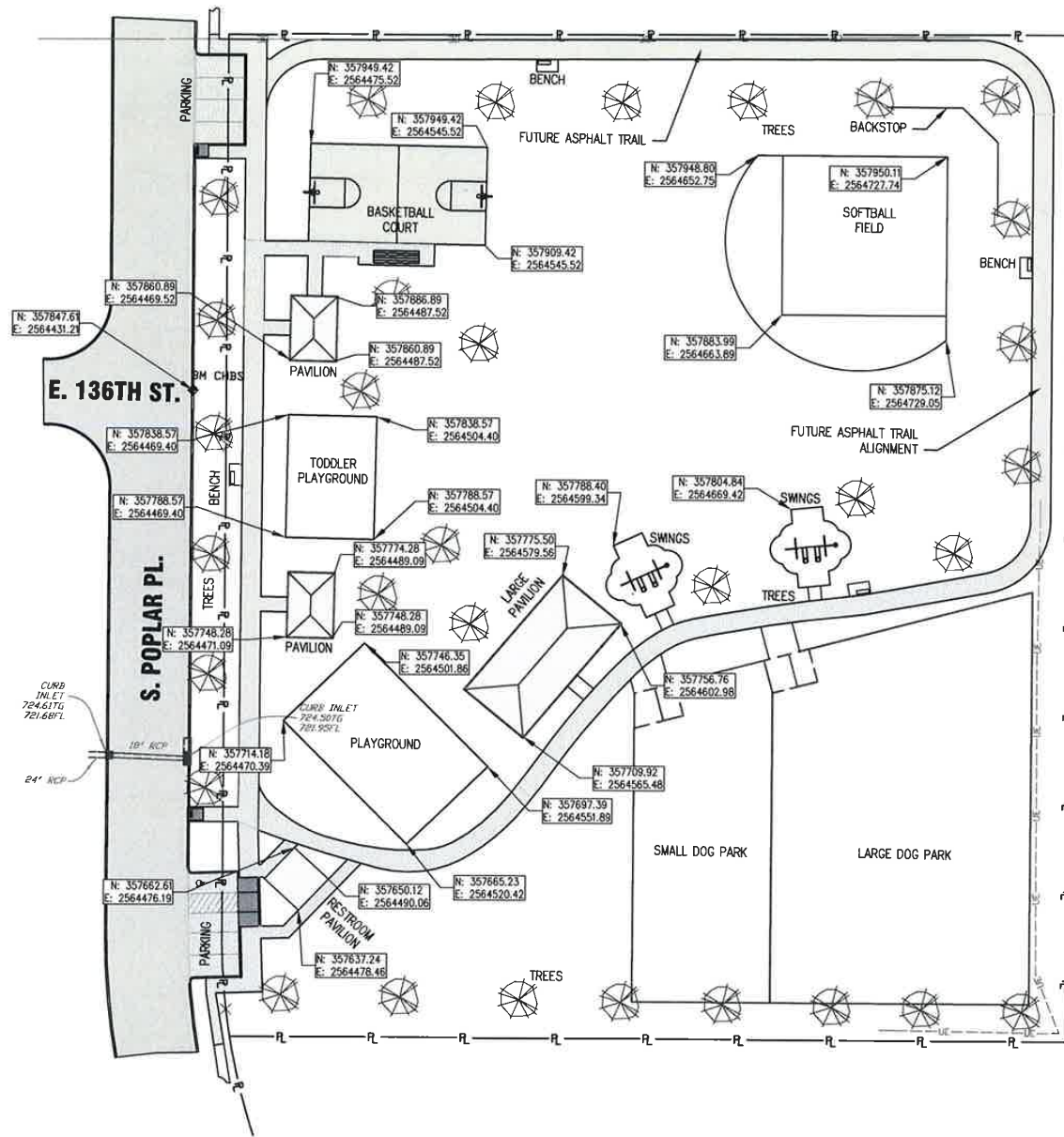
KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

EXISTING SITE PLAN

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001
SHEET NO.
C2

D:\SYNG PROJECTS\SYNG PROJECTS\2021-GLENPOOL-07-001\CAD\GENERAL LAYOUT DWG
LAYOUT: PROPOSED CONDITIONS BY: JEFF ZIMMERMAN
DATE: 5/24/21
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE



PRELIMINARY MASTER PLAN NOTES
A. THE SUBCONTRACTORS SHALL REFER TO THE ARCHITECTURAL PLANS FOR SPECIFIC DIMENSIONS AND LAYOUT INFORMATION FOR THE BUILDING, TRAIL AND OTHER MASTER PLAN IMPROVEMENTS
B. THE MASTER PLAN MAY BE BUILT IN PHASES DETERMINED AT A LATER DATE BY THE CITY OF GLENPOOL

PRELIMINARY MASTER SITE PLAN PERFORMED BY OTHERS

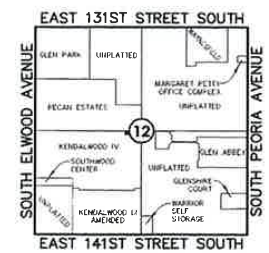
ARCHITECT:

CS HELMS
+ ASSOCIATES

ph: 918.298.7257 424 e. main st.
wb: gshelms.com jmkks, ok 74057

LEGEND

- PROPERTY LINE
- CURB
- ASPHALT PAVEMENT
- CONCRETE



Location Map
Scale: 1" = 2000'

TOPOGRAPHIC EXHIBIT
LOT 1, BLOCK 18 OF
KENDALWOOD IV
CITY OF GLENPOOL, TULSA COUNTY, OKLAHOMA



30 15 0 30

Designed By: JAZ	5	----	----	----	----
Drawn By: JH	4	----	----	----	----
Checked By: DGC	3	----	----	----	----
Issue Date: 5/24/21	2	----	----	----	----
	1	----	----	----	----
REV.	DATE	REVISIONS	BY	APPD	

CERTIFICATE OF AUTHORITY KS: E-2900
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25-A N. MAIN ST., SAPULPA, OK 74066
TEL: 918.264.9405



KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

PROPOSED(FUTURE) SITE PLAN

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001
SHEET NO.

C3

D:\SYNC PROJECTS\SYNC\PROJECTS\2021-GLENPOOL-07-001\CAD\GRADING\EROS CTRL.DWG
LAYOUT: GRADING DATE: 5/24/2021
XREF DWG1: NONE BY: LEFF ZIMMERMAN
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE

Designed By: JAZ	5	---	---	---	---
Drawn By: HH	4	---	---	---	---
Checked By: D.C.	3	---	---	---	---
Issue Date: 5/24/21	2	---	---	---	---
	1	---	---	---	---
REV.	DATE	REVISIONS	BY	APP'D	
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CITY OF GLENPOOL, OKLAHOMA

GRADING PLAN

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001
SHEET NO.

C4

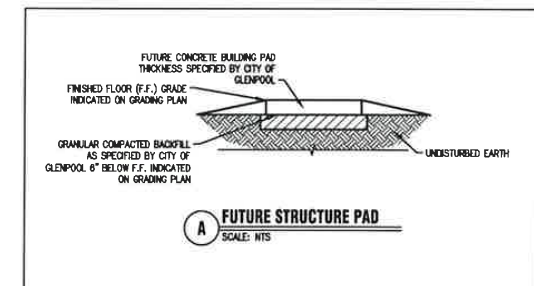


EARTHWORK COMPUTATIONS BY MIDWEST ENGINEERING GROUP L.L.C. ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED BY CONTRACTORS BY THEIR CHOSEN METHOD PRIOR TO PLACING BID. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED. 10% WAS ADDED INTO EMBANKMENT QUANTITY TO ACCOUNT FOR SHRINKAGE.

EXCAVATION (CUT): +2,093 C.Y.
EMBANKMENT (FILL): -2,127 C.Y.
NET (CUT) 34 C.Y.

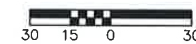
NOTE:
ROCK EXCAVATION SHALL BE CONSIDERED A SUBSIDIARY BID ITEM TO EARTHWORK

PROJECT CONSTRUCTION SEQUENCE:
1.REMOVE OR RELOCATE(R.O.R) EXISTING PLAY EQUIPMENT PER CITY OF GLENPOOL INSTRUCTION
2.STRIPE TOP SOIL
3.INSTALL STORM SEWER SYSTEM AND PATCH EXISTING ASPHALT TRAIL AT CROSSINGS
4.PERFORM SITE MASS AND FINISH GRADING PER PLAN
5.GRADE AND COMPACT PADS
FOR FUTURE STRUCTURES (G.C.P.F.S)
(SEE DETAIL A THIS SHEET) REFER TO SHEET C3 FOR FUTURE SITE PLAN DETAILS AND PAD LOCATIONS AND SIZE
6.SITE RESTORATION AND STABILIZATION ACCORDING TO NOTES AND EROSION CONTROL PLAN.

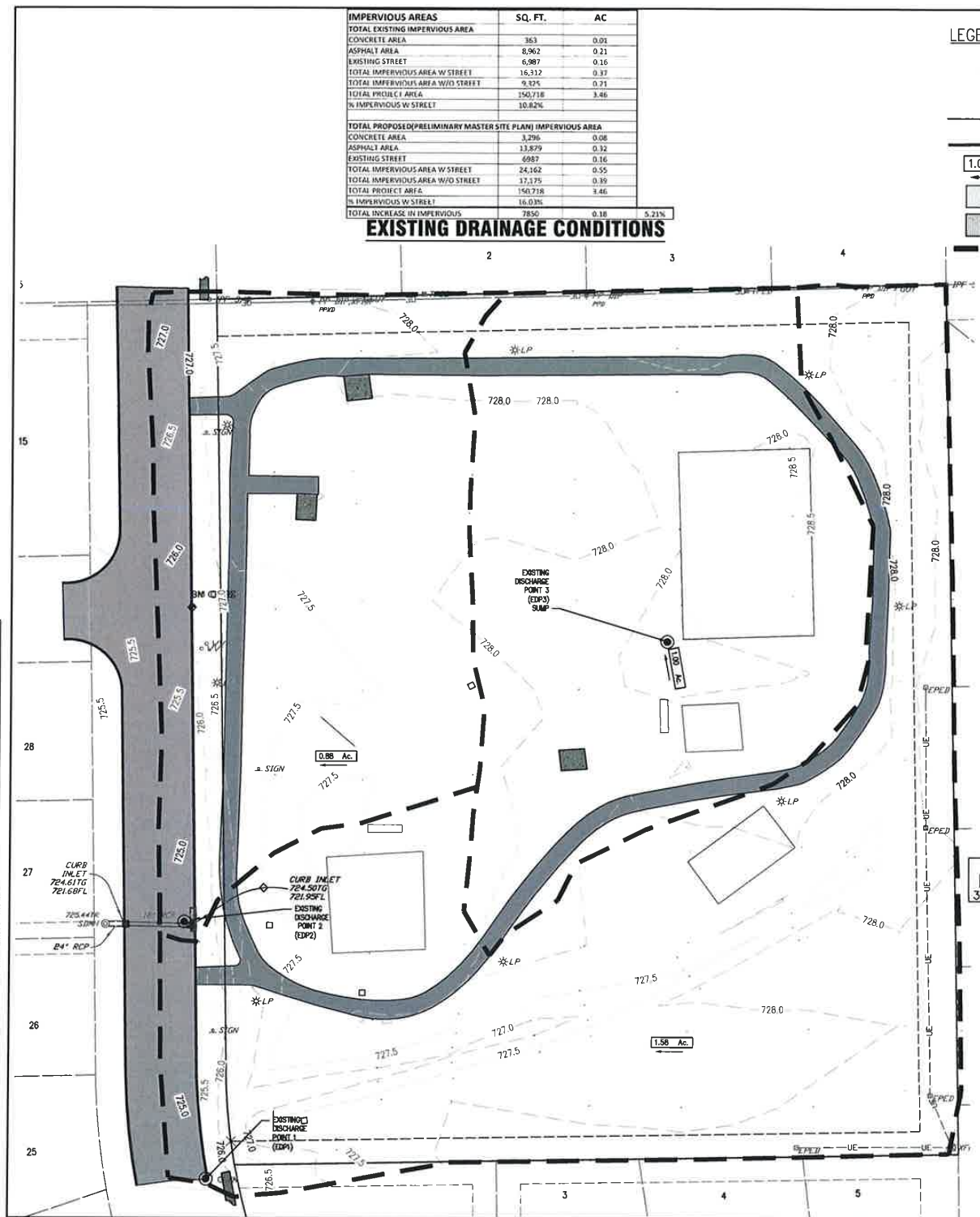


LEGEND

- LOW POINT=LP
- HIGH POINT=HP
- PROPERTY LINE
- CURB
- FLOW DIRECTION
- EXISTING ASPHALT PAVEMENT
- EXISTING TRAIL
- F.F.=FINISHED FLOOR ELEVATION OF FUTURE PAD
- FILL REGION
- CUT REGION
- MAINTAIN EXISTING GRADE



D:\SYNCH\PROJECTS\2021-GLENPOOL-07-001\CADD\DRAINAGE.DWG
DATE: 5/24/2021
LAYOUT: DRAINAGE PROPOSED BY: JEFF ZIMMERMAN
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE



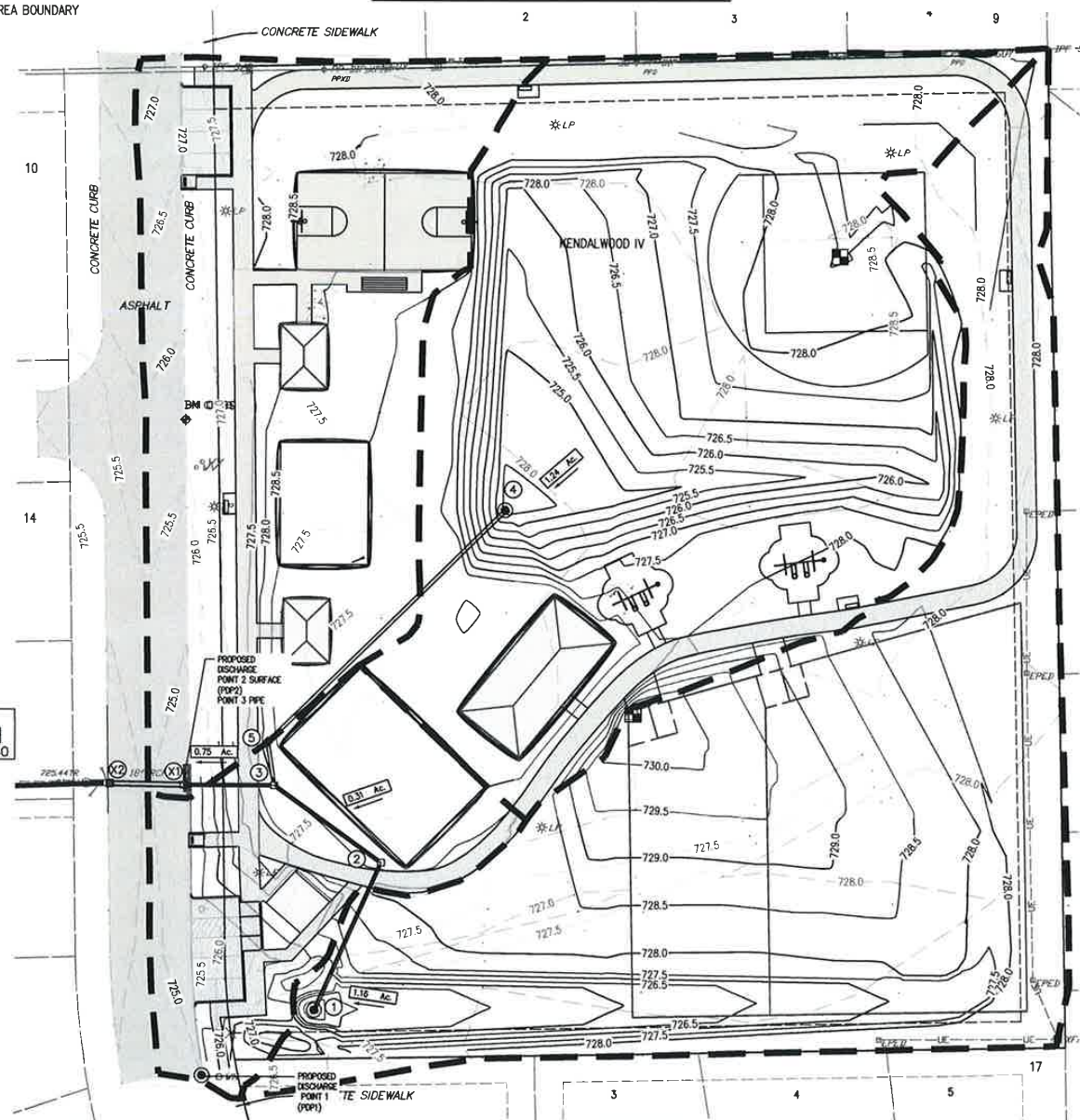
IMPERVIOUS AREAS	SQ. FT.	AC
TOTAL EXISTING IMPERVIOUS AREA	363	0.01
CONCRETE AREA	8,962	0.21
ASPHALT AREA	6,987	0.16
EXISTING STREET	16,312	0.37
TOTAL IMPERVIOUS AREA W/ STREET	9,324	0.21
TOTAL PROJECT AREA	150,718	3.46
% IMPERVIOUS W/ STREET	10.82%	
TOTAL PROPOSED (PRELIMINARY MASTER SITE PLAN) IMPERVIOUS AREA		
CONCRETE AREA	3,296	0.08
ASPHALT AREA	13,879	0.32
EXISTING STREET	6,987	0.16
TOTAL IMPERVIOUS AREA W/ STREET	24,162	0.55
TOTAL IMPERVIOUS AREA W/ STREET	17,175	0.39
TOTAL PROJECT AREA	150,718	3.46
% IMPERVIOUS W/ STREET	16.03%	
TOTAL INCREASE IN IMPERVIOUS	7850	0.18
		5.21%

EXISTING DRAINAGE CONDITIONS

- LEGEND
- LOW POINT=LP
 - HIGH POINT=HP
 - PROPERTY LINE
 - CURB
 - FLOW DIRECTION
 - ASPHALT PAVEMENT
 - PROPOSED BUILDING
 - DRAINAGE AREA BOUNDARY

KENDALWOOD NORTH PARK														
POINT	DISTANCE (FT)	GRADE (%)	SIZE (IN)	CAP (CFS)	VEL (FPS)	C	A (ACRES)	ACCUM AC	Tc (MINUTES)	10-YR I (IN/HR)	100-YR I (IN/HR)	10-YR RUNOFF (CFS)	100-YR RUNOFF (CFS)	TT (MINUTES)
1	65.80	0.50	15	4.6	3.8	0.35	1.16	0.41	10.0	6.1	8.8	2.6	4.5	0.3
2	53.15	0.50	15	4.6	3.8	0.35	0.00	0.00	10.3	6.0	8.5	2.6	4.4	0.2
3	36.50	0.05	15	5.2	4.8	0.35	0.00	0.00	10.5	6.0	8.5	5.0	8.9	0.1
X-1	29.50	0.01	18	10.0	5.7	0.35	0	0.00	10.6	6.0	8.4	5.0	8.8	0.1
X-2														
4	134.31	0.30	15	3.5	3.1	0.35	1.24	0.43	10.0	6.1	8.8	2.6	4.7	0.7
5	18.01	0.50	15	4.6	3.8	0.35	0.00	0.00	10.7	5.9	8.4	2.5	4.5	0.1
6														
7														
8														
9														

PROPOSED DRAINAGE CONDITIONS



Designed By: JAZ	5				
Drawn By: HHH	4				
Checked By: DLC	3				
Issue Date: 5/24/21	2				
	1				
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CITY OF GLENPOOL, OKLAHOMA

DRAINAGE PLAN

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001
SHEET NO.
C5