



**NOTICE
GLENPOOL UTILITY SERVICE AUTHORITY
SPECIAL MEETING**

A Special Session of the Glenpool Utility Service Authority will be held at 6:00 p.m. immediately following the Glenpool City Council Meeting on May 15, 2023, 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)

+1 346 248 7799 US (Houston)

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, MAY 15, 2023.**

AGENDA

Page

- A) **Call to Order - Joyce G. Calvert, Chair**
- B) **Roll Call, Declaration of Quorum – Wendy Knight, Secretary; Joyce G. Calvert, Chair**
- C) **Trustee Comments**
- D) **Public Comments**
- E) **Consideration and appropriate action relating to a request for approval of the Consent Agenda. (All matters listed under "Consent" are considered by the GUSA Board to be routine and will be enacted by one motion. Any Trustee may, however, remove an item from the Consent Agenda by request. A motion to adopt the consent Agenda is non-debatable.)**

- 1) **Renewal of the employee benefits package for Fiscal Year 2023-2024.**

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[Staff Report - Benefits Renewal](#)

F) **Consideration and appropriate action relating to items removed from the Consent Agenda**

G) **Scheduled Business**

- 1) Presentation and discussion of FY23-24 annual budget. No action will be taken.
(David Tillotson, City Manager)
- 2) Discussion and possible action to approve or deny a quote from L.A.M. Construction LLC, for the Kendalwood Park North Drainage Improvements Project, in an amount not to exceed \$91,000.00, to be funded from GL Account Number 02-6-16-6279: SEP Project. 12 - 27
(David Agbetunsin, City Engineer)
[Staff Report - Kendalwood Park North Drainage Improvements Project](#)
- 3) Discussion and possible action to enter into Executive Session for the purpose of discussing the purchase or appraisal of certain real property, pursuant to Title 25, Section 307(B)(3) of the Oklahoma Statutes.
(David Tillotson, City Manager).
- 4) Discussion and possible action to reconvene in Regular Session.
(Joyce G. Calvert, Chair)

H) **Adjournment**

This notice and agenda was posted at Glenpool City Hall, 12205 S. Yukon Ave., Glenpool, Oklahoma, on May 11, 2023, by 5:30 pm.

Signed: Wendy Knight

Secretary



To: Mayor and Council

From: David Tillotson, City Manager

Date: May 8, 2023

Re: Benefits Renewal for FY23-24

Background:

The City continues to utilize an Employee Benefits Committee whose purpose is threefold: 1) to annually review the City's benefits package and make recommendations to me regarding any changes they would like to see in the benefit offered; 2) annually review the benefit pricing packages presented by our brokers, Premier Consulting, and make recommendations on the plans being considered; and 3) to act as another level of communication with the larger employee body regarding the benefit options available and those being considered. After meeting with Premier, the Benefits Committee voted to recommend the comprehensive benefits package you see before you. I agree with their recommendation and believe it represents a good choice for our employees.

I want to commend the employees who served on this committee for the time, effort, and professionalism they exhibited during this process.

Staff Recommendation:

Staff recommends the following benefits:

- Health – Community Care, Renewal at 10% decrease, 9.5% increase rate cap for year 2.
- GAP – American Public Life, Renewal at 0% increase
- Teledoc – Employee Voluntary Plan, Renew with 28.8% increase
- Dental – Guardian J1 Choice, Renewal at 5% increase
- Vision – BEAM, Renewal at 0% increase
- Life – Standard Life, Renewal at 0% increase

Attachments:

- Premier Consulting Partners Rate Sheets

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

City of Glenpool

Medical Plan Analysis

July 1, 2023

Carrier	
Plan Name	
Benefits	
Network	
Deductible	
Individual	
Family	
Coinsurance	
Out-of-Pocket Maximum	
Individual	
Family	
Professional Services	
Office Visit	
PCP	
Specialist	
Lab & X-Ray	
Diagnostic Imaging	
Hospital Services	
Inpatient Hospital	
Outpatient Hospital	
Emergency Services	
Urgent Care	
Emergency Room	
Prescription Drugs	
Pharmacy Copays	
Mail-Order	
Additional Information	
Rates	
Employee Only	71
Employee + Spouse	4
Employee + Child(ren)	8
Family	6
Estimated Monthly Premium	
Estimated Annual Premium	
% Change from Current	
\$ Change from Current	

Current / Renewal

CommunityCare	
IP8 CR17	
In-Network	Out-of-Network
CCOK Select HMO	
\$5,000	Emergency Only
\$10,000	
100%	
\$6,250	
\$12,500	
\$35	
\$60	
10%	
\$750	
\$250/day, to max of	
\$1,000 AD	
\$200 AD	
\$50	
\$150 AD	
\$0 / \$15 / \$40 / \$70 / \$160	
2 X Retail	
Current	Renewal
\$532.89	\$479.60
\$1,119.17	\$1,007.25
\$959.84	\$863.86
\$1,599.64	\$1,439.68
\$59,588.43	\$53,629.56
\$715,061.16	\$643,554.72
-10.0%	
-\$71,506	

MHS	
Bronze Plan	
In-Network	Out-of-Network
Healthcare Highways	
\$4,000	\$8,000
\$10,000	\$20,000
80%	50%
\$6,600	\$21,000
\$13,200	Unlimited
\$40	50% AD
\$60	40% AD
20% AD	40% AD
20% AD	40% AD
20% AD	50% AD
20% AD	50% AD
\$40	40% AD
\$400 + 20% AD	
\$0 / \$15 / \$45 / \$60 / 30% up to max \$250	
2 X Retail	
\$536.60	
\$1,207.35	
\$1,019.54	
\$1,770.78	
\$61,709.00	
\$740,508.00	
3.6%	
\$25,447	



5/8/2023

For illustrative purposes only. See SBC for detailed plan information.

Composite rates are subject to change based on final enrollment.

(AD=After Deductible)

City of Glenpool

Medical Plan Analysis

July 1, 2023

Carrier	
Plan Name	
Benefits	
Network	
Deductible	
Individual	
Family	
Coinsurance	
Out-of-Pocket Maximum	
Individual	
Family	
Professional Services	
Office Visit	
PCP	
Specialist	
Lab & X-Ray	
Diagnostic Imaging	
Hospital Services	
Inpatient Hospital	
Outpatient Hospital	
Emergency Services	
Urgent Care	
Emergency Room	
Prescription Drugs	
Pharmacy Copays	
Mail-Order	
Additional Information	
Rates	
Employee Only	71
Employee + Spouse	4
Employee + Child(ren)	8
Family	6
Estimated Monthly Premium	
Estimated Annual Premium	
% Change from Current	
\$ Change from Current	
Transition Credit	
Annual Premium with Transition Credit	
% Change with Transition Credit	

Current / Renewal

CommunityCare	
IP8 CR17	
In-Network	Out-of-Network
CCOK Select HMO	
\$5,000	Emergency Only
\$10,000	
100%	
\$6,250	
\$12,500	
\$35	
\$60	
10%	
\$750	
\$250/day, to max of \$1,000 AD	Emergency Only
\$200 AD	
\$50	
\$150 AD	
\$0 / \$15 / \$40 / \$70 / \$160	
2 X Retail	
Current	Renewal
\$532.89	\$479.60
\$1,119.17	\$1,007.25
\$959.84	\$863.86
\$1,599.64	\$1,439.68
\$59,588.43	\$53,629.56
\$715,061.16	\$643,554.72
-10.0%	
-\$71,506	

BlueCross BlueShield	
MOBAP0133	
In-Network	Out-of-Network
Blue Advantage	
\$5,000	\$7,500
\$10,000	\$22,500
80%	60%
\$6,000	\$18,000
\$12,000	\$36,000
\$30	30% AD
\$50	30% AD
\$0	30% AD
20% AD	40% AD
\$750 + 20% AD	\$750 + 40% AD
\$250 + 20% AD	\$250 + 40% AD
\$50	30% AD
\$200 + 20% AD	
\$0 / \$10 / \$50 / \$100 / \$150 / \$250	
\$10 / \$20 / \$70 / \$120 / \$150 / \$250	
3 X Retail	
*Transition credit on 2nd months bill	
\$514.42	
\$1,080.27	
\$926.45	
\$1,544.28	
\$57,522.18	
\$690,266.16	
-3.5%	
-\$24,795	
\$45,000	
\$645,266.16	
-9.76%	
RATE CAP of 9.5%	



5/8/2023

For illustrative purposes only. See SBC for detailed plan information.

Composite rates are subject to change based on final enrollment.

(AD=After Deductible)

City of Glenpool

GAP Plan Analysis

July 1, 2023

Carrier	
Plan Name	
Inpatient Benefit	
Individual	
Family	
Outpatient Benefit	
Individual	
Family	
Benefit Notes	
Additional Outpatient Riders	
Cancer Outpatient	
Independent Lab	
Durable Medical Equipment	
Rates <55	
Employee Only	59
Employee + Spouse	2
Employee + Child(ren)	8
Family	6
Rates 55+	
Employee Only	13
Employee + Spouse	1
Employee + Child(ren)	0
Family	0
Estimated Monthly Premium	
Estimated Annual Premium	
Estimated Annual Employer Cost	

Current / Renewal

MedLink 6	
\$5,000 GAP Plan	
	\$5,000
	\$10,000
Combined benefit \$5,000/\$10,000	
	\$4,500
	\$9,000
	\$500 OP deductible
	Included
	Included
	Included
	\$76.52
	\$153.03
	\$155.44
	\$231.97
	\$114.77
	\$229.54
	\$193.70
	\$308.47
	\$9,177.63
	\$110,131.56
EMPLOYER COST	
	\$88,149
No Rate Increase	

City of Glenpool

Medical and GAP Plan Analysis

July 1, 2023

\$5,000 GAP Option (current)

Current / Renewal

Carrier			Community Care and APL				
Plan Name			IP8 CR17 with \$5,000 GAP				
Benefits			In-Network		Out-of-Network		
Network			CCOK Select HMO				
Deductible			Emergency Only				
Individual With GAP					\$5,000 \$0 for inpatient and \$500 outpatient		
Family With GAP					\$10,000 \$0 for inpatient and \$1,000 outpatient		
Coinsurance					100%		
Out-of-Pocket Maximum							
Individual					\$6,250		
Family					\$12,500		
Professional Services							
Office Visit							
PCP					\$35		
Specialist					\$60		
Lab & X-Ray					10%		
Diagnostic Imaging					\$750		
Hospital Services							
Inpatient Hospital					\$250/day, to max of \$1,000 AD		
Outpatient Hospital					\$200 AD		
Emergency Services							
Urgent Care					\$50		
Emergency Room					\$150 AD		
Prescription Drugs							
Deductible					\$0		
Pharmacy Copays					\$0 / \$15 / \$40 / \$70 / \$160		
Mail-Order					2 x Retail		
Additional Information					Current maximum exposure(out of pocket) is approximately \$1,250 to \$1,750 per employee.		
Rates	<55	55+			Under 55		55+
Employee Only	59	13	#REF!	#REF!			
Employee + Spouse	2	1	#REF!	#REF!			
Employee + Child(ren)	8	0	#REF!	#REF!			
Family	6	0	#REF!	#REF!			
Estimated Monthly Premium			#REF!				
Estimated Annual Premium			#REF!				
% Change from Current			0.0%				
\$ Change from Current			\$0				

Carrier		MedLink 6
Plan Name		\$5,000 GAP Plan
Inpatient Benefit		
Individual		\$5,000
Family		\$10,000
Outpatient Benefit		Combined benefit \$5,000/\$10,000
Individual		\$4,500
Family		\$9,000
Benefit Notes		\$500 OP deductible
Additional Outpatient Riders		
Critical Illness		N/A
Office Treatment		N/A
Cancer Outpatient		Included
Independent Lab		Included
Durable Medical Equipment		Included

City of Glenpool

Telemedicine Proposal

July 1, 2023

Carrier	
Plan Name	
Basic Information	
Plan Type	
Eligibility	
Copays	
Additional Information	
Rate	
Employee / Family	89
Estimated Monthly Premium	
Estimated Annual Premium	
% Change from Current	
\$ Change from Current	

Current / Renewal

Teladoc	
Consults included Telemedicine	
Voluntary or Employer Paid	
All Employees	
None - Consults included in PEPM Fee	
Current	Renewal
\$6.95	\$8.95
\$618.55	\$796.55
\$7,422.60	\$9,558.60
28.8%	
\$2,136.00	

City of Glenpool

Dental Plan Analysis

July 1, 2023

Carrier	
Plan Name	
Benefits	
Network	
Annual Deductible	
Individual	
Family	
Annual Plan Maximum	
Coinsurance	
Diagnostic & Preventive	
Basic Services	
Major Services	
Services	
Perio	
Endo	
Oral Surgery	
Implants	
Orthodontic Services	
Lifetime Maximum	
Coinsurance	
Age Limitation	
Reasonable & Customary	
Dependent Limiting Age	
Additional Information	
Rates	
Employee Only	66
Employee + Spouse	7
Employee + Child(ren)	10
Family	12
Estimated Monthly Premium	
Estimated Annual Premium	
% Change from Current	
\$ Change from Current	

Current / Renewal

Guardian J1 Choice		Network Access Plan (NAP)	
Value Plan		Network Access Plan (NAP)	
In-Network	Out-of-Network	In-Network	Out-of-Network
DentalGuard Preferred		DentalGuard Preferred	
Waived for Preventive		Waived for Preventive	
\$100		\$100	
\$300		\$300	
\$5,000 plus Max Rollover		\$5,000 plus Max Rollover	
100%	100%	100%	100%
100%	100%	80%	80%
60%	60%	50%	50%
Major		Major	
Major		Major	
Major		Major	
Major		Major	
N/A		N/A	
N/A		N/A	
N/A		N/A	
Negotiated	MAC	Negotiated	UCR 90th
Age 26		Age 26	
Current		Renewal	
\$35.88		\$37.67	
\$75.19		\$78.95	
\$77.99		\$81.89	
\$125.09		\$131.34	
\$5,175.39		\$5,433.85	
\$62,104.68		\$65,206.20	
5.0%		\$3,101.52	

City of Glenpool

Vision Plan Analysis

July 1, 2023

Carrier	
Plan Name	
Benefits	
Network	
Rate Guarantee	
Copay	
Exams	
Materials	
Frequency of Services	
Eye Exams	
Lenses Benefit	
Contact Lenses	
Frames	
Frames Allowance	
Contact Lens Allowance	
Additional Information	
Rates	
Employee Only	52
Employee + Spouse	14
Employee + Child(ren)	6
Family	13
Estimated Monthly Premium	
Estimated Annual Premium	

Current / Renewal

BEAM	
Vision	
In-Network	Out-of-Network
VSP	
Until July 2024	
\$10	
\$25	
12 Months	
12 Months	
12 Months	
24 Months	
\$150 Retail Allowance + 20% off balance	
\$150 Allowance	
\$6.11	
\$12.23	
\$10.78	
\$16.90	
\$773.32	
\$9,279.84	

No Increase

City of Glenpool

Basic Life Plan Analysis

July 1, 2023

Carrier		
Plan Name		
Basic Information		
Class / Eligibility		
Rate Guarantee Period		
Employee Coverage		
Benefit Amount		
Guarantee Issue		
Dependent Coverage		
Spouse Benefit Amount		
Child Benefit Amount		
Reduction Schedule		
Additional Information		
Rates	Exposures	Volume
Life Rate		
AD&D Rate		
Combined Rate per \$1,000		\$18,300,000
Spouse Rate per Unit	59	\$2,542,500
Child Rate per Unit		\$885,000
Estimated Monthly Premium		
Estimated Annual Premium		

Current / Renewal

The Standard	
\$200,000 - \$280,000 Basic Life	
Class 1: City Managers Class 2: All other Members	
Until July 2024	
Class 1: \$280,000 Class 2: \$200,000 All amounts are GI	
\$45,000	
Birth to age 26: \$15,000	
50% at age 70	
Current / Renewal	
\$0.190	
<u>\$0.035</u>	
\$0.225	
\$0.17	
\$0.20	
\$4,564.07	
\$54,768.81	
No Increase	



To: The Chairman and Board of Trustees, Glenpool Utility Services Authority
From: David Agbetunsin, City Engineer
Date: May 15, 2023
Re: Kendalwood Park North Drainage Improvements Project

Background:

The Kendalwood Park North has been closed since 2021 due to several drainage issues. The City has solicited quotes to address the drainage problems in the park. The City received 3 quotes for the Kendalwood Park North Drainage Improvements Project (the Project). The lowest quote was received from L.A.M Construction LLC, at \$91,000.00.

This item is for the Council's consideration to enter into a construction contract with L.A.M Construction LLC for the project. Please find attached the project quote, project description and plans. This project is to be funded from GUSA general ledger account number 02-6-16-6279.

Staff Recommendation:

Staff recommends authorization be given to the City Manager to enter into a construction contract agreement covering the completion of the project for a total amount of \$91,000.00 to be funded from the GUSA general ledger account number 02-6-16-6279.

Attachments:

L.A.M Construction LLC Quote
Project Description and Plans

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



Job name: Kendalwood North park
 Location: Glenpool, OK
 Date of submittal: ASAP
 Revision: 0

Sales Tax Included: No
 Proposal Type: Estimate

We appreciate the opportunity to submit an estimate for this project. This proposal is based on the plans and specifications provided for the scopes of work shown below.

Plans Provided: Yes Dated: 5/24/2021
 Geotechnical Report Provided: No Dated:
 Addenda Acknowledged:

Site Utilities				
Description	Quantity	Unit	Unit \$	Proposed Total
Mobilization / Erosion Control	1	LS	\$ 15,000.00	\$ 15,000.00
Construction Staking	1	LS	\$ 3,500.00	\$ 3,500.00
Earthwork (grading within the storm LOD)	1	LS	\$ 10,900.00	\$ 10,900.00
Storm Demolition	1	LS	\$ 13,000.00	\$ 13,000.00
Storm Installation	1	LS	\$ 40,500.00	\$ 40,500.00
Asphalt Patching	20	SY	\$ 205.00	\$ 4,100.00
Sodding	1	LS	\$ 4,000.00	\$ 4,000.00
Site Utilities Subtotal:				\$ 91,000.00

Project Total: \$ 91,000.00

Please note that these estimates are based on normal working hours and conditions. If any unexpected circumstances should arise during construction, modifying the expectations of our service, we will discuss additional fees.

L.A.M Construction, LLC carries worker's compensation and general liability insurances. Certificates of coverage will be supplied upon acceptance of the quote.

Please reach out if you have any questions or concerns.

Standard Notes and Exclusions unless otherwise noted above:

- 1) Rock excavation excluded. Should rock excavation be required, rate to be negotiated based on field conditions.
- 2) All permits excluded.
- 3) No bonding has been included unless otherwise noted. This includes, but is not limited to: bid bonds, performance bonds, maintenance bonds, warranty bonds etc.
- 4) No joint sealants included unless noted otherwise.

- 5) Proposal based on L.A.M Construction, LLC standard labor rates and does not include any special rates including TERO or other.
- 6) Proposal based on standard work hours (Monday-Friday, 7:00am-3:30pm) and excludes overtime, overnight, or other special shifts. Should these be required L.A.M Construction, LLC to be compensated accordingly.
- 7) Waterproofing excluded.
- 8) Proposal valid for 30 Days from Date of Submittal, after which L.A.M Construction, LLC reserves the right to adjust price to account for material, labor, and equipment escalations.
- 9) Excludes groundwater remediation such as pumping, chemical treatment, float rock, removals, etc.
- 10) Excludes all building structure demolition unless otherwise noted.
- 11) Due to material shortages across the industry please expect lead times ranging from 3-8 weeks from time of approved submittals are received. This is beyond L.A.M Construction, LLC control.
- 12) Geotechnical Services provided by others as needed for L.A.M Construction, LLC to complete accepted scopes of work at no cost to L.A.M Construction, LLC.
- 13) Excludes SWPPP and or the maintenance of the SWPPP

L.A.M Construction, LLC
Managing Member
Sincerely,



Jason Wyckoff
918-519-7096

**CITY OF GLENPOOL
KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENT PROJECT
BID SCHEDULE**

Site Grading

1. The contractor shall verify the existing grade of the Kendalwood North Park and determine the volumetric net excavation/embankment required for the proposed grading plans.
2. Earthwork shall be considered unclassified. The cost of materials and disposal shall be the responsibility of the contractor and shall be included in the bid price.
3. The contractor shall perform site mass and finish grading according to the plan.
4. Grade and compact pads for future structures. See grading plans. Cost of grading shall be included in cost of earthworks.
5. The contractor shall perform site restoration and stabilization according to the erosion control plans.
6. Any damage to the roadway pavement, curb, driveway, or sidewalk caused by the contractor's operation shall be repaired to the City of Glenpool's standards and satisfaction, at the sole expense of the contractor.
7. The contractor shall refer to the General Construction Notes on the set of plans.
8. The contractor shall provide and maintain adequate erosion control measures according to the erosion control plans and details. Contractor shall maintain erosion control devices until all soil disturbing activities are complete and a uniform perennial cover with a minimum of 70% density for unpaved areas is attained. Contractor shall perform seeding according to the erosion control plan.

Drainage Improvement

1. The contractor shall construct the Kendalwood North Drainage Improvements according to the attached plans and specifications. The improvement shall include drainage structures 1,2,3,4, and 5. The repair shall NOT include drainage structures, X2 and X1. The repair shall NOT include the storm drainpipes between X2-X1, and between X1-3.
2. The contractor shall provide adequate erosion control within the limit of disturbance of the project scope prior to commencing any construction activity. The contractor shall maintain adequate sediment erosion control measure through the construction duration in accordance with the erosion control specifications provided in the project plans. The contractor shall provide and maintain temporary construction entrance according to the erosion control plan and details.
3. The contractor shall survey the project and verify all distances and elevations of the drainage structures.
4. All excavation, embankment, grading and compaction shall be included in the bid price for earthwork.
5. The contractor shall remove and dispose existing structures in a manner approved by the engineer.
6. Contractor shall prepare subgrade and ensure adequate compaction.

7. The contractor shall provide a minimum of 4" bedding material. The contractor shall backfill material according to the NYLOPLAST 18" Drain Basin: 2818AG_X and NYLOPLAST 24" Drain Basin: 2824AG_X Details.
8. The contractor shall ensure a positive drain of the drainage structure from the park to the curb Inlet, as detailed on the plans provided.
9. The contractor shall ensure adequate compaction of all backfill. The contractor shall notify the designated city inspector prior to any backfill activity.
10. The contractor shall reuse all ductile iron grates and inlet covers.
11. The contractor shall remove and replace 20 SY of asphalt trail after storm drain installation.
12. The contractor shall restore the finished grade to existing conditions.
13. The contractor shall restore all disturbed areas within and outside the project limit to existing condition. The contractor shall sod disturbed areas after construction.
14. Any damage caused by the contractor to any structures, roadway surfaces, striping, and signs shall be repaired at contractor's expense to the satisfaction of the city engineer.
15. Contractor shall furnish the city inspector with a copy of all material certifications and/or bill of lading for all materials used on site during construction.
16. The contractor shall furnish the city with the applicable maintenance bond(s) or equivalent irrevocable letter(s) of credit along with appropriate certificates of insurance prior to the issuance of a Notice-to-Proceed by the City Engineer. The maintenance bond shall be in an amount equal to one hundred (100) percent of the final Engineer's Certified Statement of Cost specifying the actual installation costs incurred. The maintenance bond shall be for a one-year period commencing from the date of final acceptance of the improvement by the City Engineer and City Council.
17. The contractor shall refer to the general construction notes on the set of plans.

Attachment:
Kendalwood North Park Drainage Improvements Plans

Total Bid Price in Words: _____

Total Price: _____

No	Pay Item	Unit	Quantity	Bid Unit Price	Bid Price
1	Construction Staking	LS	1		
2	Earthwork	LS	1		
3	Removal of Existing Structures	LS	1		
4	Connect to Existing Precast Storm Structure	EA	1		
5	15" HDPE Pipe	LF	271.5		
6	18" NYLOPLAST Basin Assemblies	EA	4		
7	24" NYLOPLAST Basin Assembly	EA	1		
8	Asphalt Pavement (Patch Existing Walking Trail)	SY	20		
9	Seeding/Erosion Control	LS	1		
10	Mobilization	LS	1		

Company Name: _____

Authorized Signature Here ► _____

Printed Name: _____

CONTRACTOR INFORMATION

Company Name

Address & Contact Information

Company Representative:

Name (Signature)

Name (Print)

As: _____

Title

D:\SYNC PROJECTS\SYNC PROJECTS\2021-GLENPOOL-07-001\CAD\COVER-KENDALWOOD.DWG
LAYOUT: LAYOUT
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
DATE: 5/24/2021
BY: JEFF ZIMMERMAN

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 DEPARTMENT'S 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
918-756-0833 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	----	----	----	----
	4	----	----	----	----
Drawn By: <u>###</u>	3	----	----	----	----
	2	----	----	----	----
Checked By: <u>DLC</u>	1	----	----	----	----
	REV. DATE			REVISIONS	BY APP'D
Issue Date: <u>5/24/21</u>	CERTIFICATE OF AUTHORITY OK: 8104				
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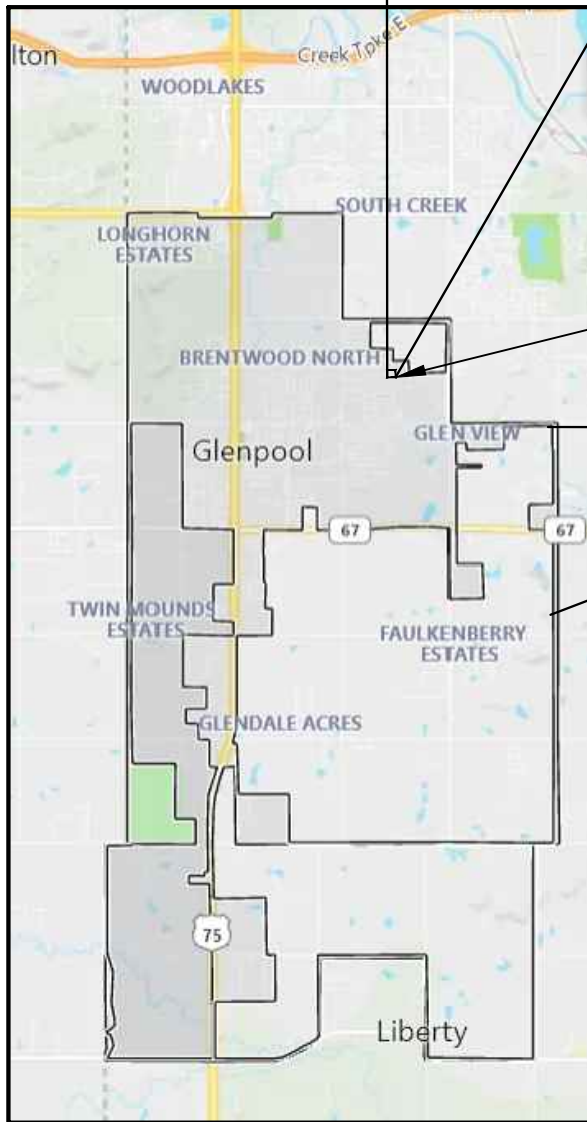
TEL: 918.264.9405



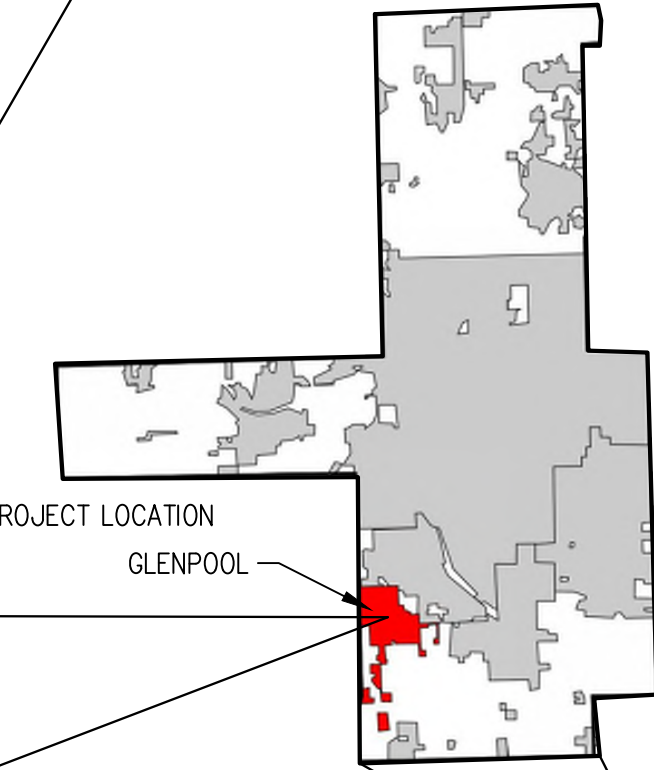
KENDALWOOD NORTH PARK
DRAINAGE IMPROVEMENTS



NTS



PROJECT LOCATION
GLENPOOL



TULSA COUNTY

GLENPOOL, TULSA COUNTY, OKLAHOMA

KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

COVER SHEET

SHEET INDEX

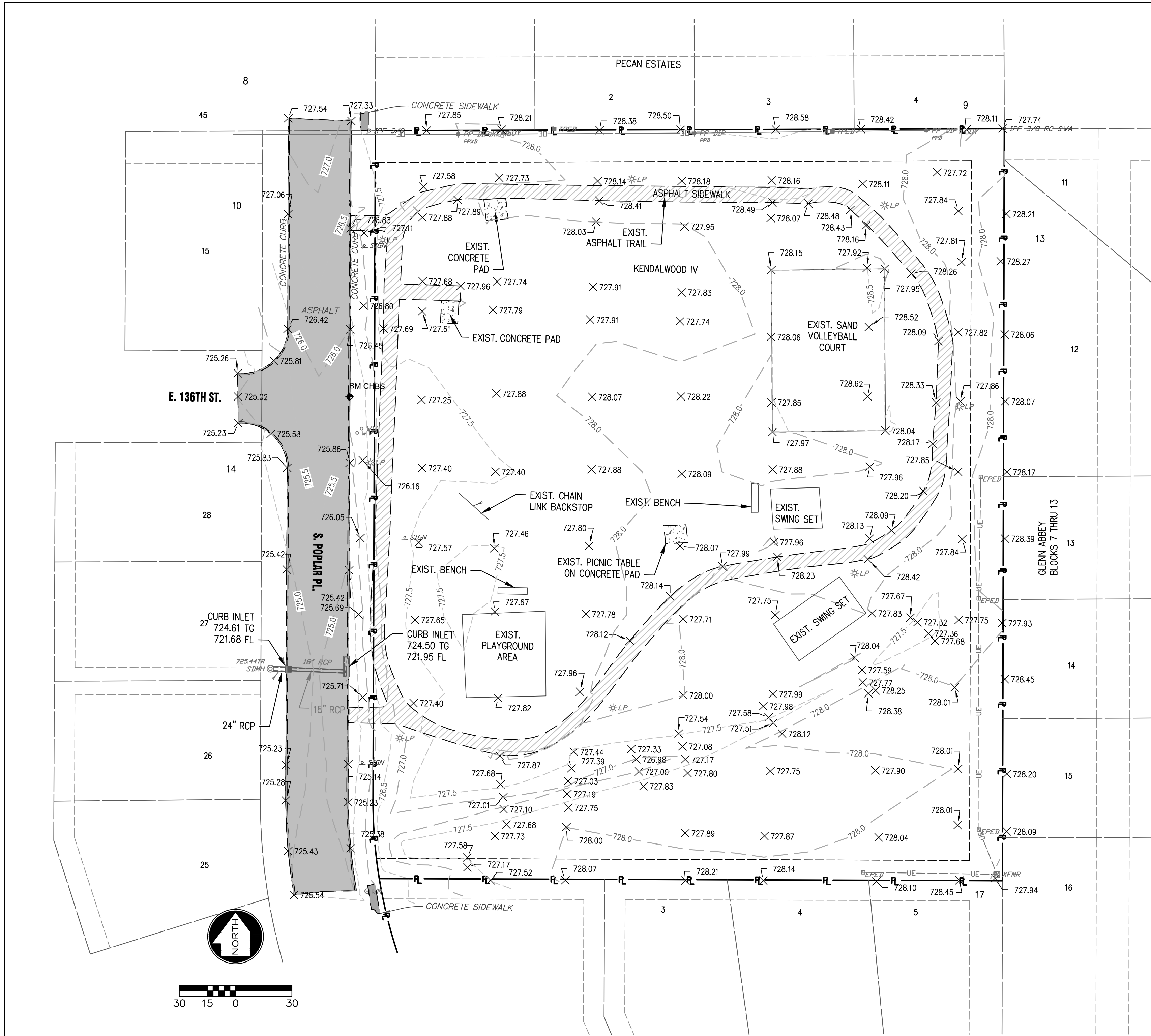
C1	COVER SHEET
C2	EXISTING SITE PLAN
C3	PRELIMINARY MASTER SITE PLAN
C4	GRADING PLAN
C5	DRAINAGE PLAN
C6	EROSION CONTROL PLAN
C7-C8	STORM SEWER PLAN & PROFILE
C9	EROSION CONTROL DETAILS
C10	STORM SEWER DETAILS

NOTES:

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

C1

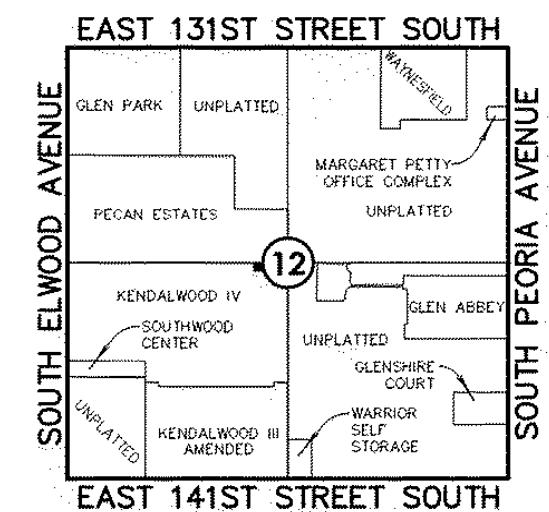
D:\SYNG PROJECTS\SYNG PROJECTS\2021-GLENPOOL-07-001\CAD\EXIST-SITE.DWG
DATE: 5/24/2021
LAYOUT: EXISTING CONDITIONS BY: JEFF ZIMMERMAN
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE



- 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"= 2000'
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	----	----	----	----
	4	----	----	----	----
Drawn By: ####	3	----	----	----	----
	2	----	----	----	----
Checked By: DLC	1	----	----	----	----
	REV.	DATE	REVISIONS	BY	APP'D
Issue Date: 5/24/21	CERTIFICATE OF AUTHORITY KS: E-2900				
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TEL: 918.264.9405



KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

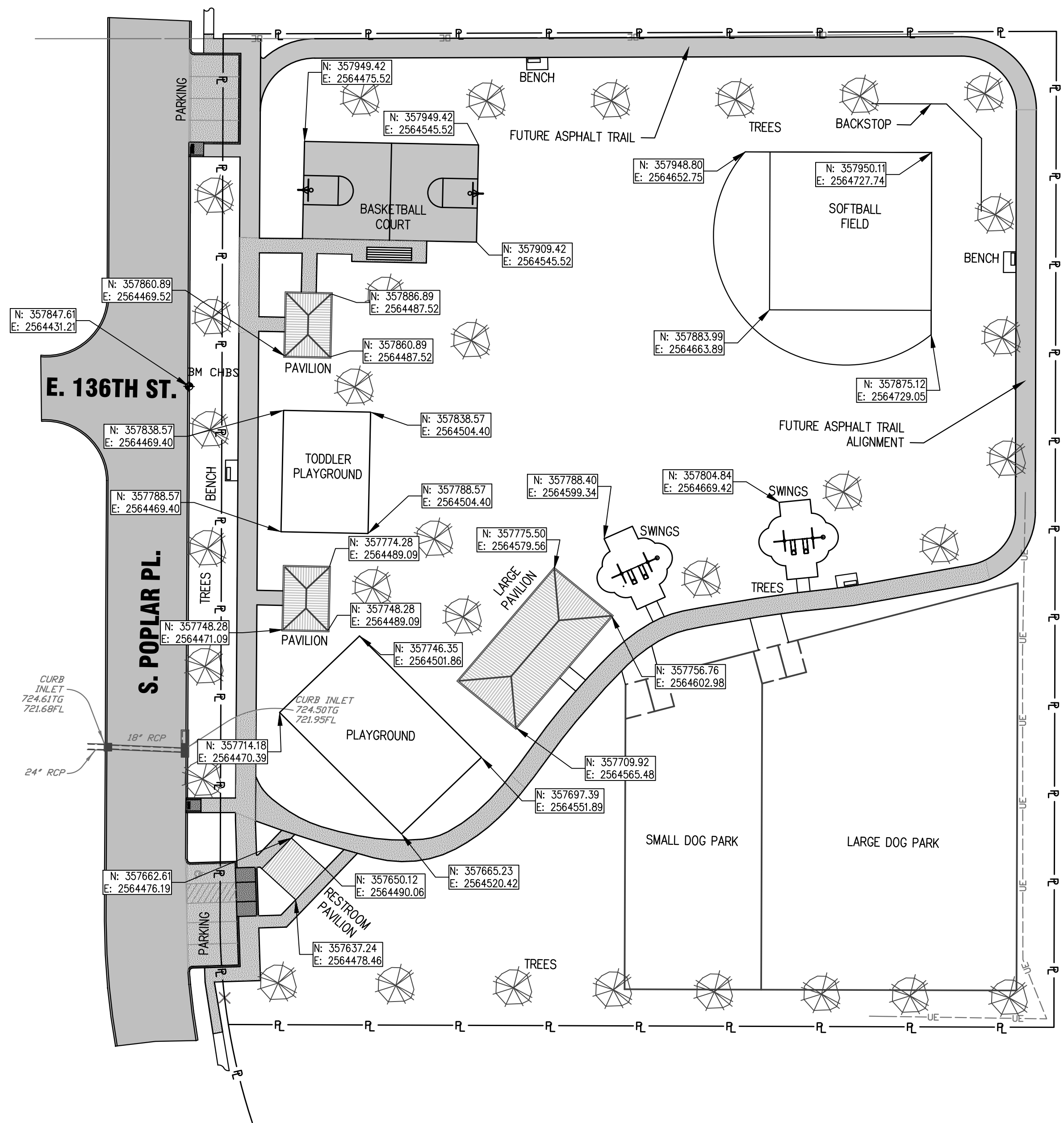
EXISTING SITE PLAN

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 CONDITION
DATE: 5/24/2021
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:

GS

HELMS
+ ASSOCIATES

ph: 918.298.7257 | 424 e. main st.
wb: gshelms.com | jenkins, ok 74037

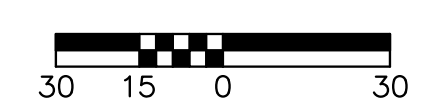
- LEGEND
- PROPERTY LINE
 - CURB
 - ASPHALT PAVEMENT
 - CONCRETE

EAST 131ST STREET SOUTH

EAST 141ST STREET SOUTH

Location Map
Scale: 1" = 2000'

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



Designed By: JAZ	5	----	----	----	----
	4	----	----	----	----
Drawn By: ###	3	----	----	----	----
	2	----	----	----	----
Checked By: DLC	1	----	----	----	----
REV. DATE		REVISIONS		BY	APP'D
CERTIFICATE OF AUTHORITY KS: E-2900					
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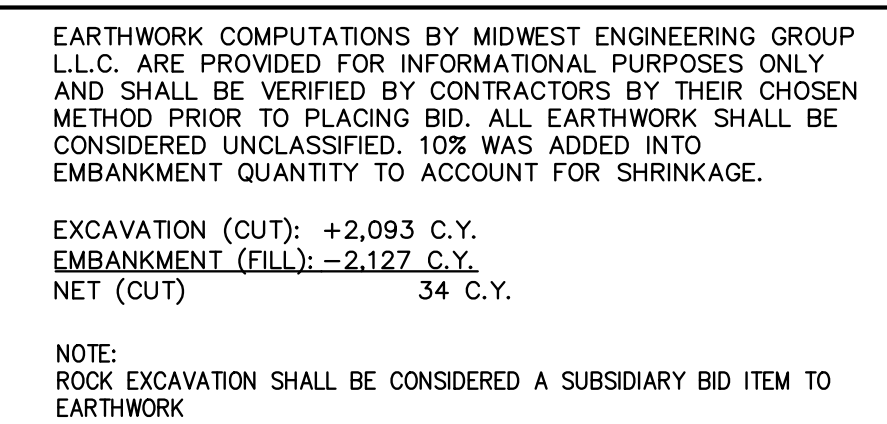
KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

PROPOSED(FUTURE) SITE PLAN

NOTES:

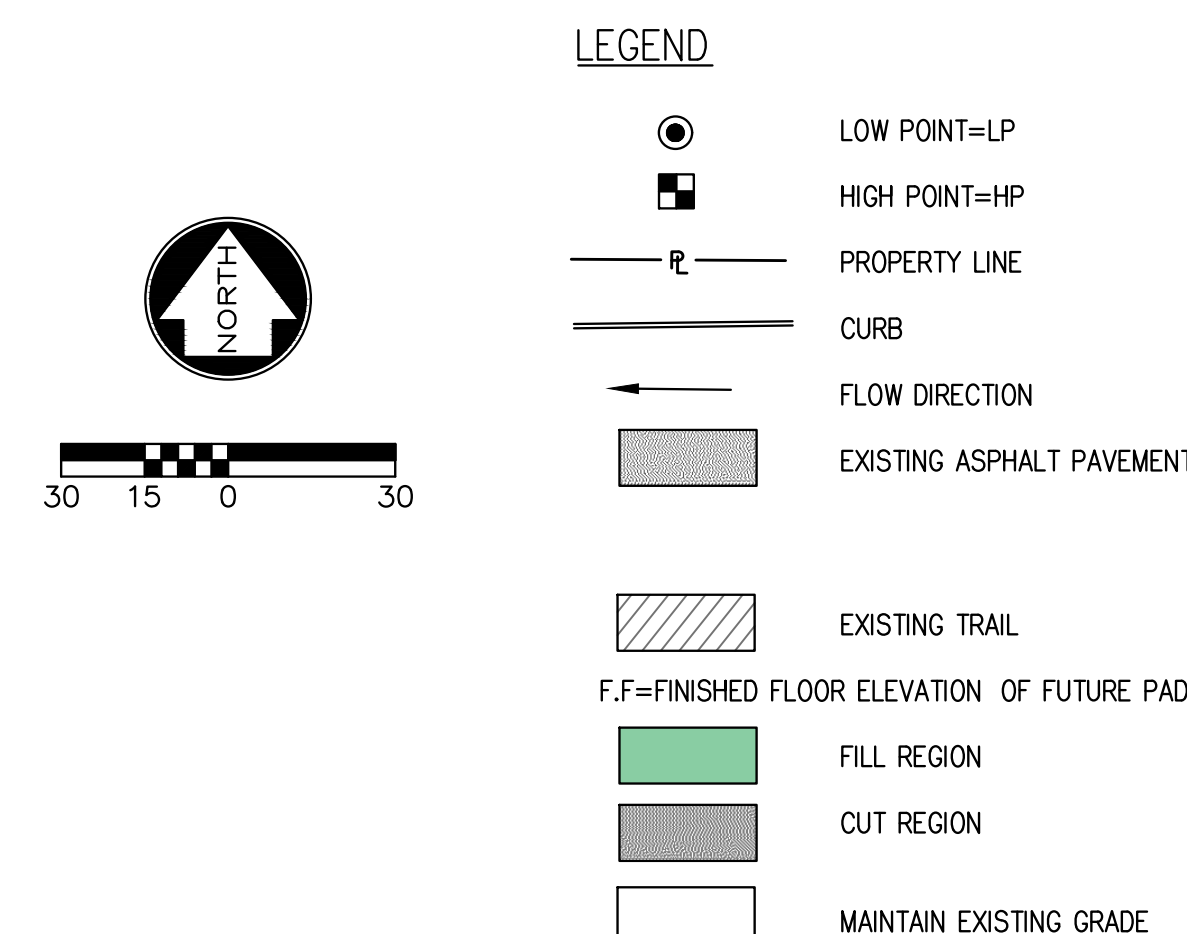
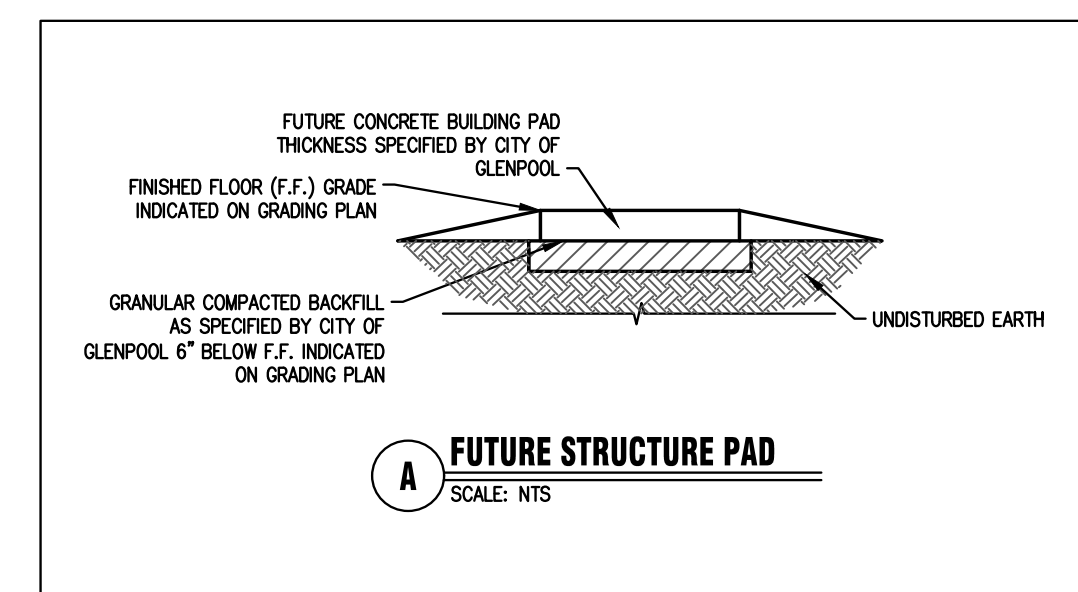
PROJECT NO.
2021-GLENPOOL-07-001

SHEET NO.
C3



PROJECT CONSTRUCTION SEQUENCE:

- 1.REMOVE OR REPLACE(R.O.R) EXISTING PLAY EQUIPMENT PER CITY OF GLENPOOL INSTRUCTION
- 2.STRIIP 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 (C.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.



Designed By: <u>JAZ</u>	5	----	----	----	----
	4	----	----	----	----
Drawn By: <u>###</u>	3	----	----	----	----
	2	----	----	----	----
Checked By: <u>DLG</u>	1	----	----	----	----
	REV.	DATE	REVISIONS	BY	APPT
Issue Date: <u>5/24/21</u>	CERTIFICATE OF AUTHORITY KS: E-2900 COPYRIGHT © 2021 – MIDWEST ENGINEERING GROUP, LLC				



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KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

GRADING PLAN

NOTES:

PROJECT NO.
2021-GLENPOOL-07-001

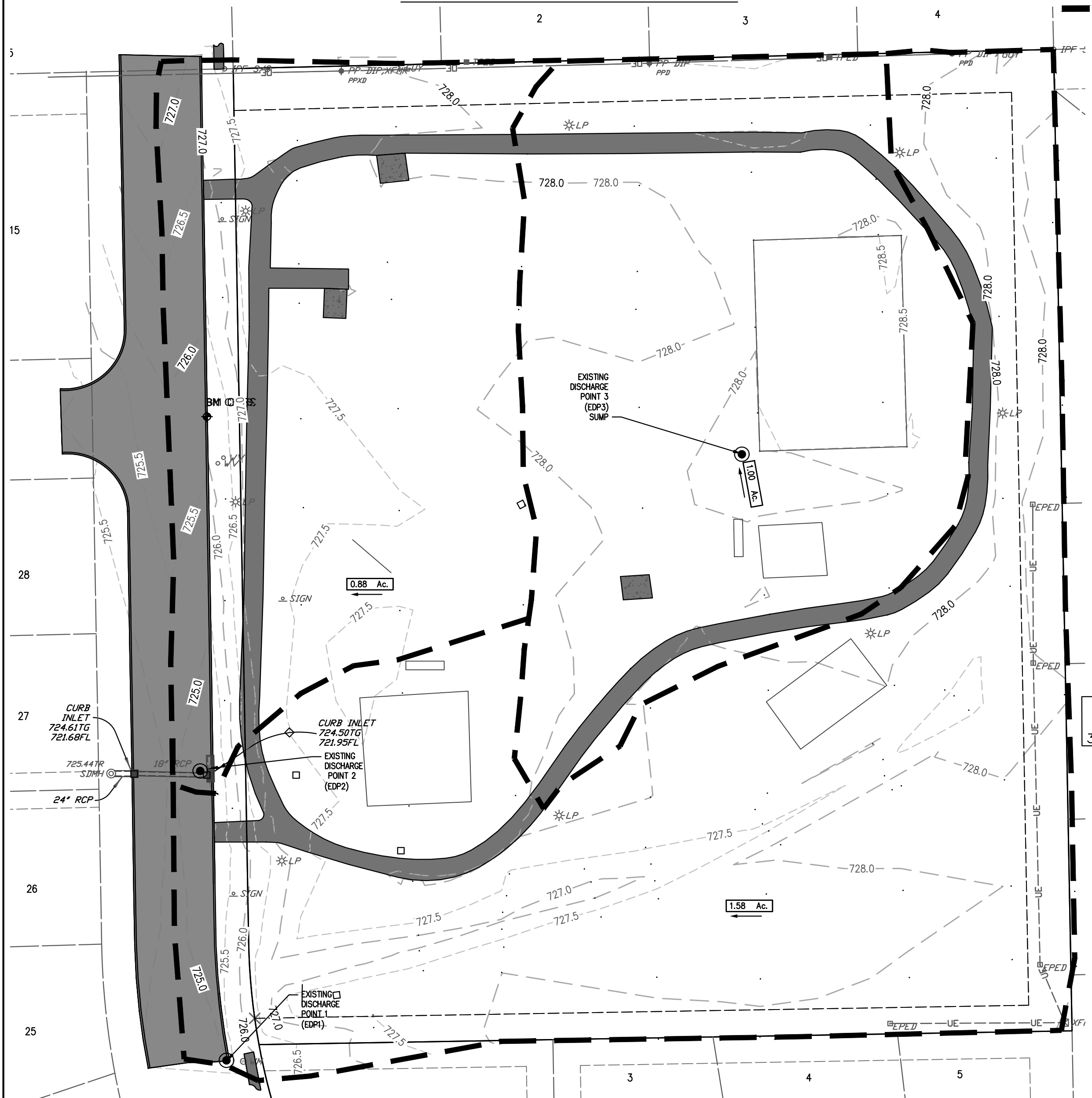
SHEET NO.

C4

D:\SYNG PROJECTS\SYNG PROJECTS\2021-GLENPOOL-07-001\CAD\DWG-DRAINAGE.DWG
LAYOUT: DRAINAGE PROPOSED BY: JEFF ZIMMERMAN
DATE: 5/24/2021
XREF DWG3: NONE
XREF DWG4: NONE
XREF DWG5: NONE

IMPERVIOUS AREAS	SQ. FT.	AC
TOTAL EXISTING IMPERVIOUS AREA		
CONCRETE AREA	363	0.01
ASPHALT AREA	8,962	0.21
EXISTING STREET	6,987	0.16
TOTAL IMPERVIOUS AREA W/ STREET	16,312	0.37
TOTAL IMPERVIOUS AREA W/O STREET	9,325	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	6987	0.16
TOTAL IMPERVIOUS AREA W STREET	24,162	0.55
TOTAL IMPERVIOUS AREA W/O 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%

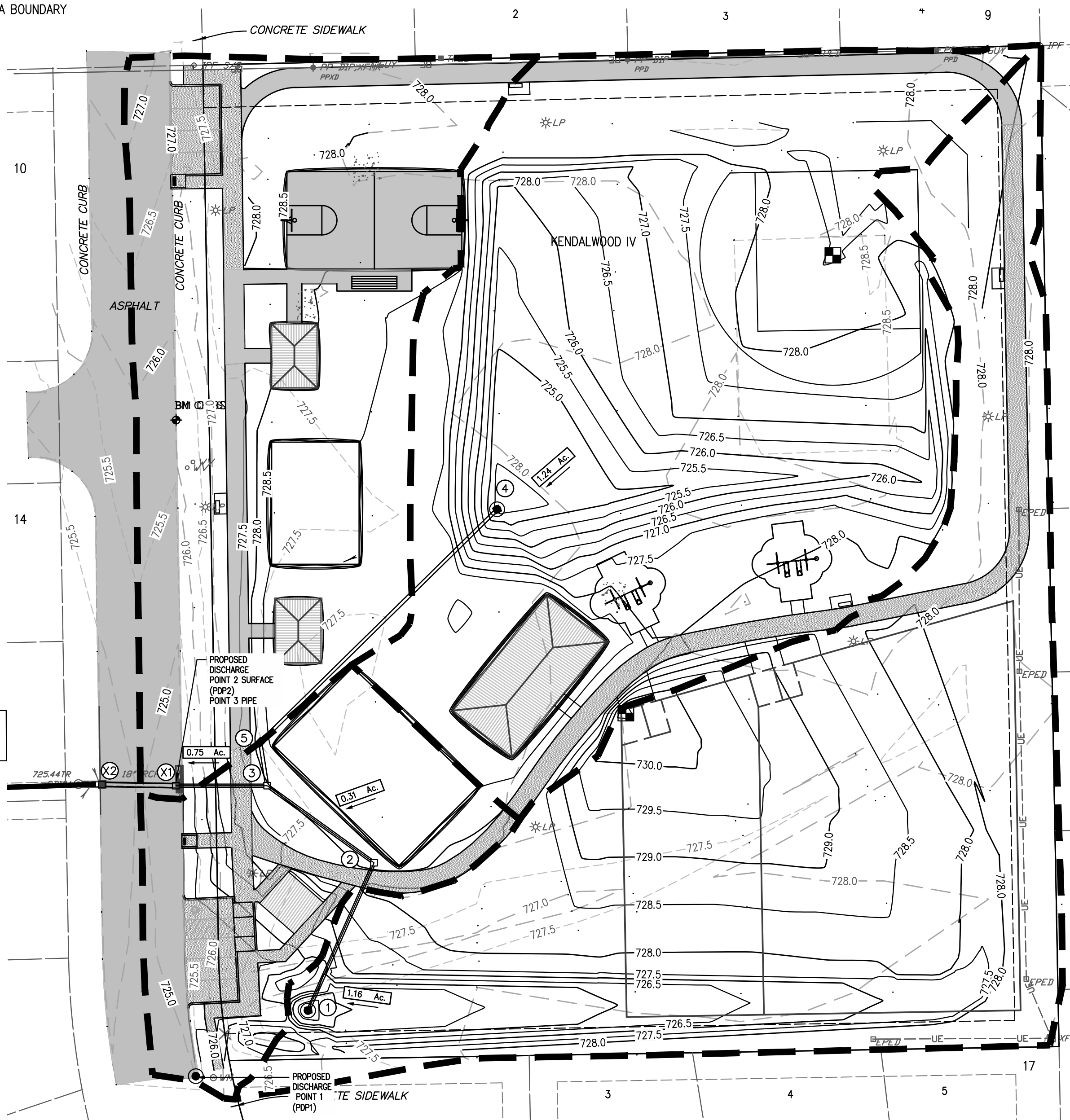
EXISTING DRAINAGE CONDITIONS



- 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)	AC	ACCUM. AC	Tc (MINUTES)	10-YR RUNOFF (IN/HR)	100-YR RUNOFF (CFS)	100-YR RUNOFF (CFS)	TT (MINUTES)	10 YEAR HQ
1	85.80	0.50	15	4.6	3.8	0.35	1.16	0.41	0.41	10.0	6.1	8.8	2.5	4.5	0.3
2	83.15	0.50	15	4.6	3.8	0.35	0.00	0.00	0.41	10.3	6.0	8.5	2.5	4.4	0.2
3	36.50	0.65	15	5.2	4.8	0.35	0.00	0.00	0.84	10.5	6.0	8.5	5.0	8.9	0.1
X-1	29.59	0.91	18	10.0	5.7	0.35	0	0.00	0.84	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	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	0.43	10.7	5.9	8.4	2.5	4.5	0.1
3															

PROPOSED DRAINAGE CONDITIONS



Designed By: JAZ	5	----	----	----	----
	4	----	----	----	----
Drawn By: ###	3	----	----	----	----
	2	----	----	----	----
Checked By: DLC	1	----	----	----	----
	REV.	DATE	REVISIONS	BY	APP'D
Issue Date: 5/24/21	CERTIFICATE OF AUTHORITY KS: E-2900				
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KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

DRAINAGE PLAN

NOTES:

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

C5

D:\SYNG PROJECTS\SYNG\PROJECTS\2021-GLENPOOL-07-001\CAD\EROS CTRL PLAN.DWG	BY: JEFF ZIMMERMAN
LAYOUT: EROS CTRL	DATE: 5/24/2021
XREF DWG3: NONE	XREF DWG3: NONE
XREF DWG4: NONE	XREF DWG4: NONE

Designed By: JAZ	5	---	---	---	---
Drawn By: DDS	4	---	---	---	---
Checked By: DLC	3	---	---	---	---
Issue Date: 5/24/21	2	---	---	---	---
	1	---	---	---	---
REV.	DATE	REVISIONS	BY	APP'D	
CERTIFICATE OF AUTHORITY KS: E-2900					
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KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

EROSION CONTROL PLAN

NOTES:

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

C6



CONTRACTOR TO COORDINATE EROSION CONTROL STAGING WITH CITY OF GLENPOOL PER FUTURE CONSTRUCTION PHASING

EROSION CONTROL STAGE TABLE				
PROJECT STAGE 1	PLAN REF. NO.	BMP DESCRIPTION	REMOVE AFTER STAGE:	NOTE
PRIOR TO GRADING	A	SILT FENCE	1	INSTALL SILT FENCE AROUND PERIMETER
CONSTRUCTION ENTRANCE	B	TEMPORARY CONSTRUCTION ENTRANCE	1	INSTALL TEMP. CONST. ENTR.
STORM SEWER INSTALLATION	C	WATTLE INLET PROTECTION	1	INSTALL WATTLES DURING CONSTRUCTION
	D	ROCK INLET PROTECTION	1	INSTALL ROCK FOR INLET PROTECTION (PERMANENT)
MASS GRADING	E	INTERIOR EROSION CONTROL DEVICES	1	INSTALL INTERMEDIATE SILT FENCE
	F		1	INSTALL INTERMEDIATE WATTLES

LEGEND

- WATTLES
- SILT FENCE
- GRADING LIMIT
- CONSTRUCTION ENTRANCE
- SEEDING AREA

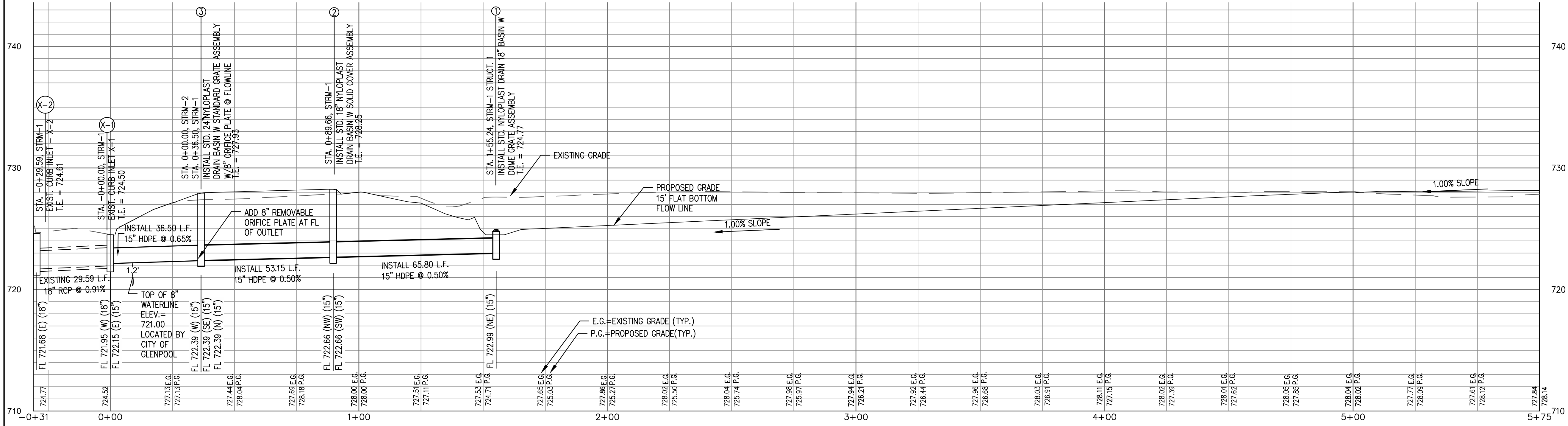
NOTES

- CONTRACTOR MAY USE SILT FENCE OR WATTLES FOR EROSION CONTROL.
- EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70% MINIMUM FOR UNPAVED AREAS IS ESTABLISHED.
- TEMPORARY SEEDING WILL BE REQUIRED WHEN AREAS ARE INACTIVE FOR MORE THAN 30 DAYS.



30 15 0 30

D:\SYNG PROJECTS\SYNG\PROJECTS\2021-GLENPOOL-07-001\CAD\P&P STORM.DWG
LAYOUT: STORM-1
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
BY: JEFF ZIMMERMAN
DATE: 5/24/2021
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE



Designed By: <u>JAZ</u>	5	----	----	----	----
	4	----	----	----	----
Drawn By: <u>DDS</u>	3	----	----	----	----
	2	----	----	----	----
Checked By: <u>DLC</u>	1	----	----	----	----
	REV.	DATE	REVISIONS		BY APP'D
Issue Date: <u>5/24/21</u>	CERTIFICATE OF AUTHORITY KS: E-2900				
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TEL: 918.264.9405



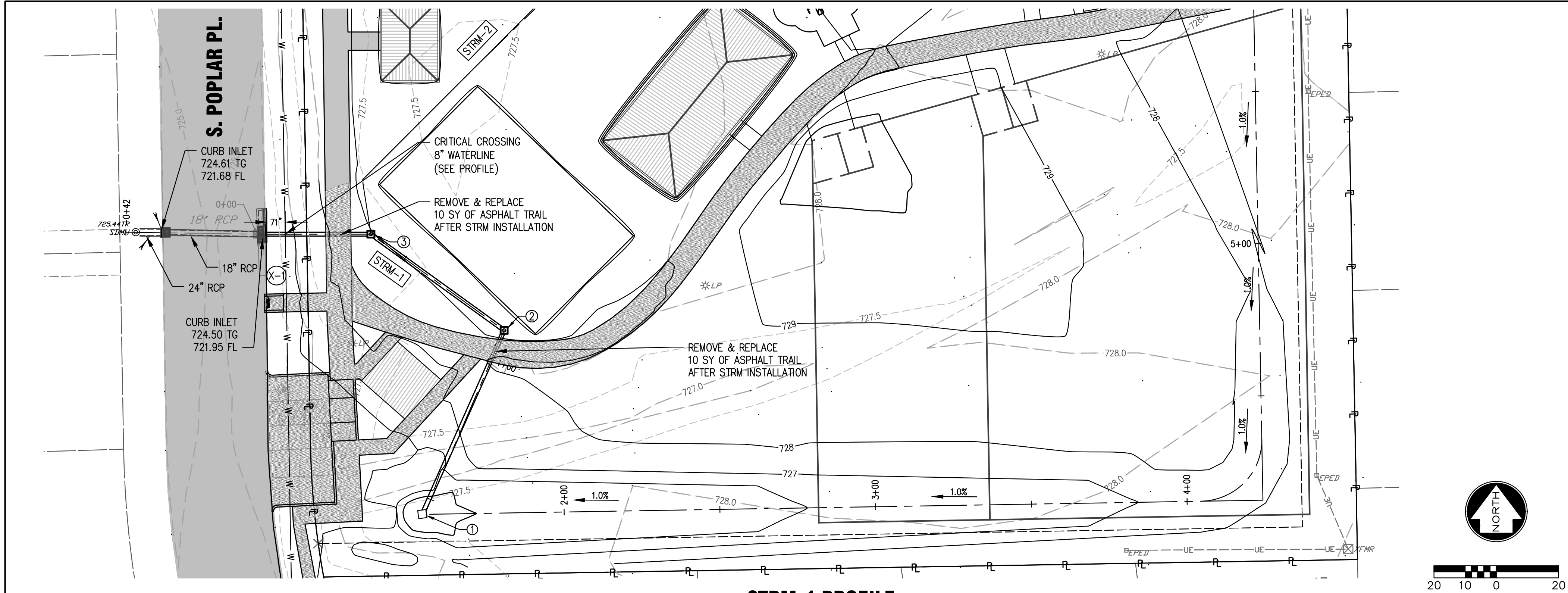
KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

STORM SEWER P&P

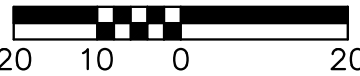
NOTES:

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

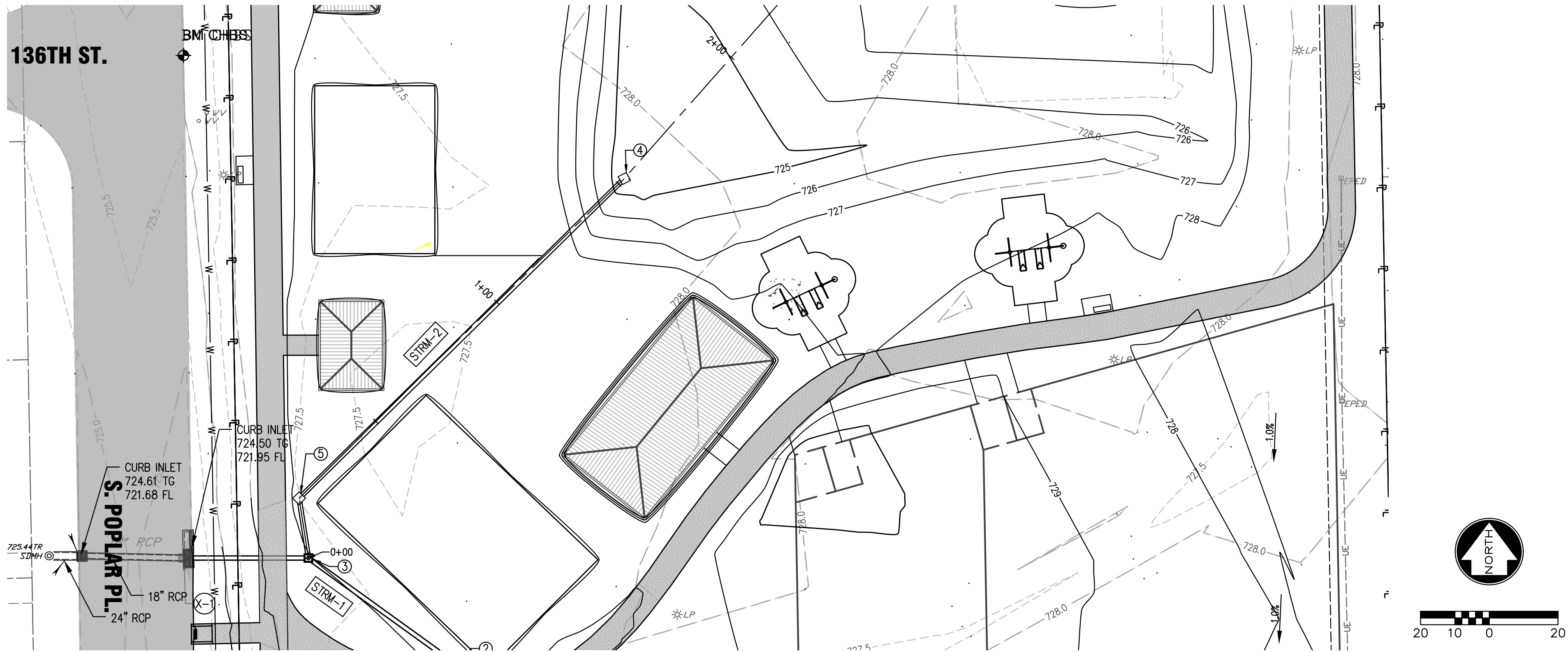
C7



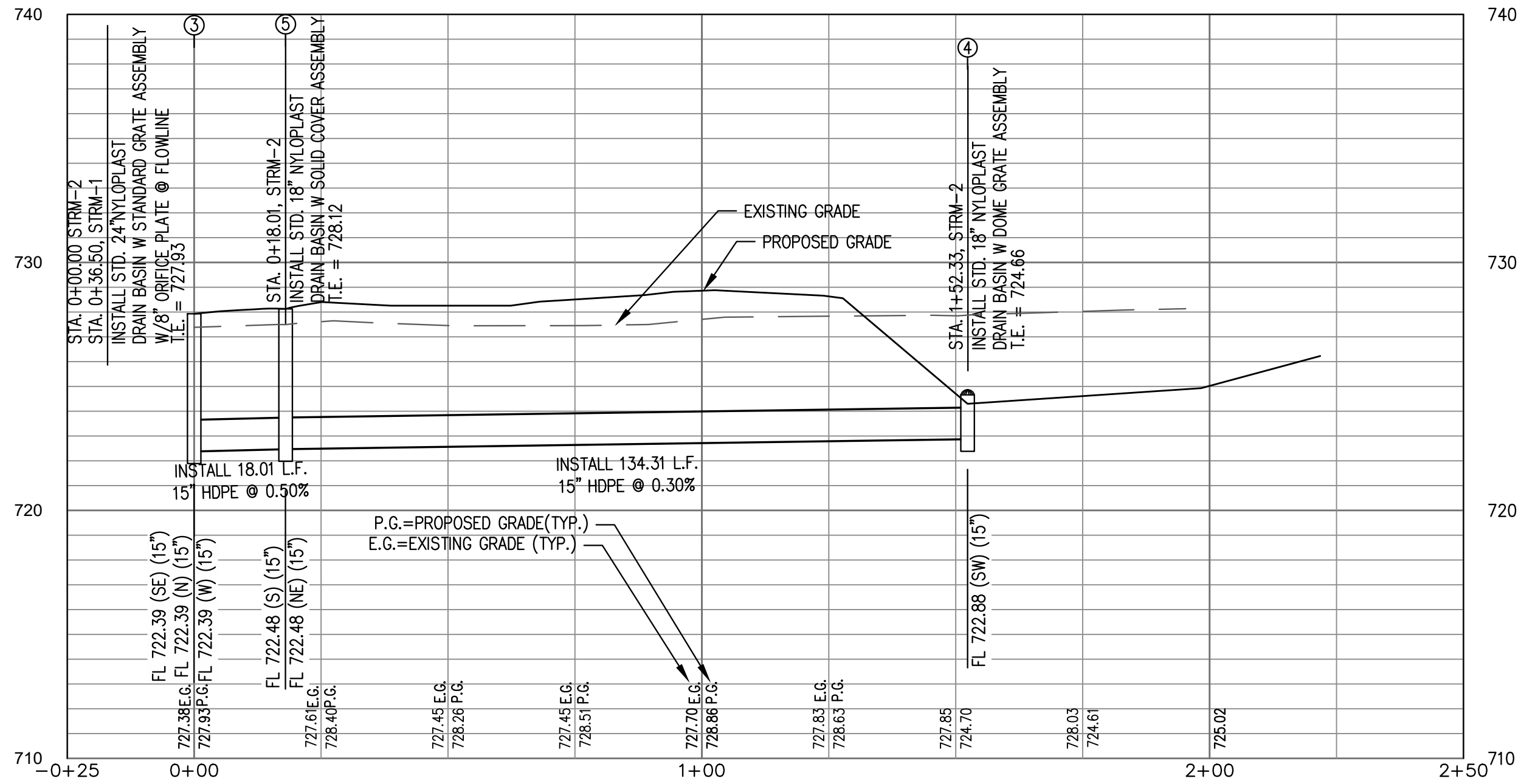
STRM-1 PROFILE



D:\SYNG PROJECTS\SYNG\PROJECTS\2021-GLENPOOL-07-001\CAD\P&P\STORM.DWG
LAYOUT: STORM-2
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
BY: JEFF ZIMMERMAN
DATE: 5/24/2021
XREF DWG2: NONE
XREF DWG3: NONE



STRM-2 PROFILE



Designed By: JAZ	5	----	----	----	----
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TEL: 918.264.9405



KENDALWOOD NORTH PARK DRAINAGE IMPROVEMENTS
CITY OF GLENPOOL, OKLAHOMA

STORM SEWER P&P

NOTES:

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

C8

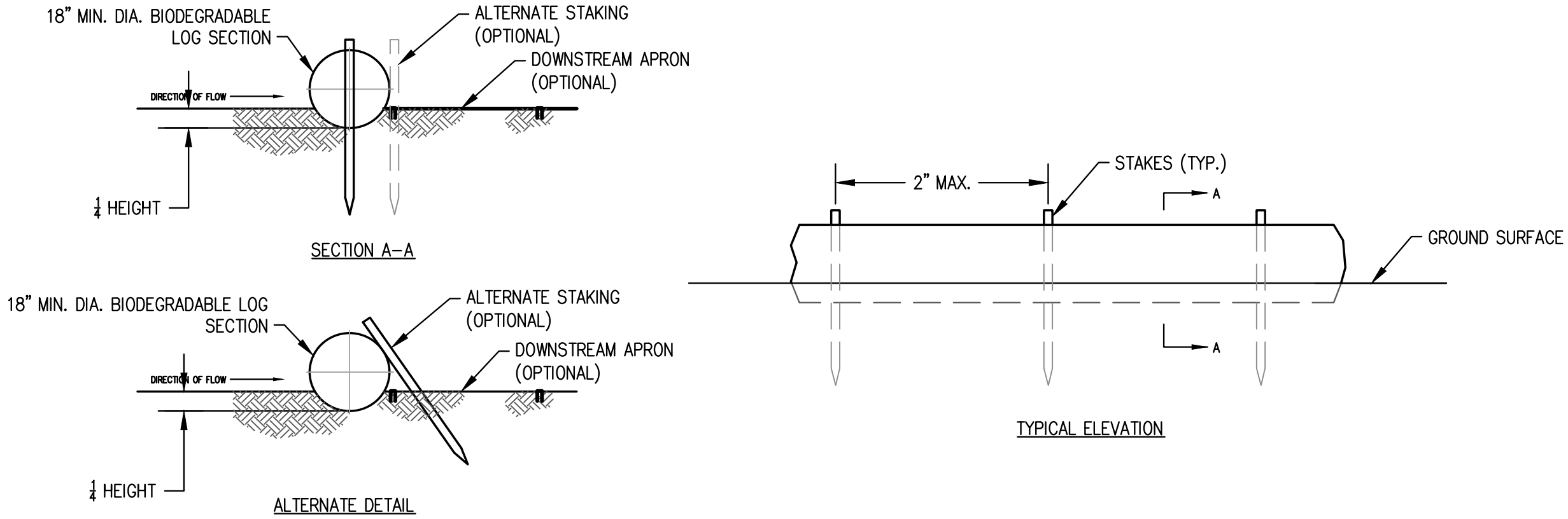
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LAYOUT: EC-1
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
DATE: 5/24/2021
BY: JEFF ZIMMERMAN

NOTES FOR WATTLES AND BIODEGRADABLE LOG SLOPE PROTECTION:

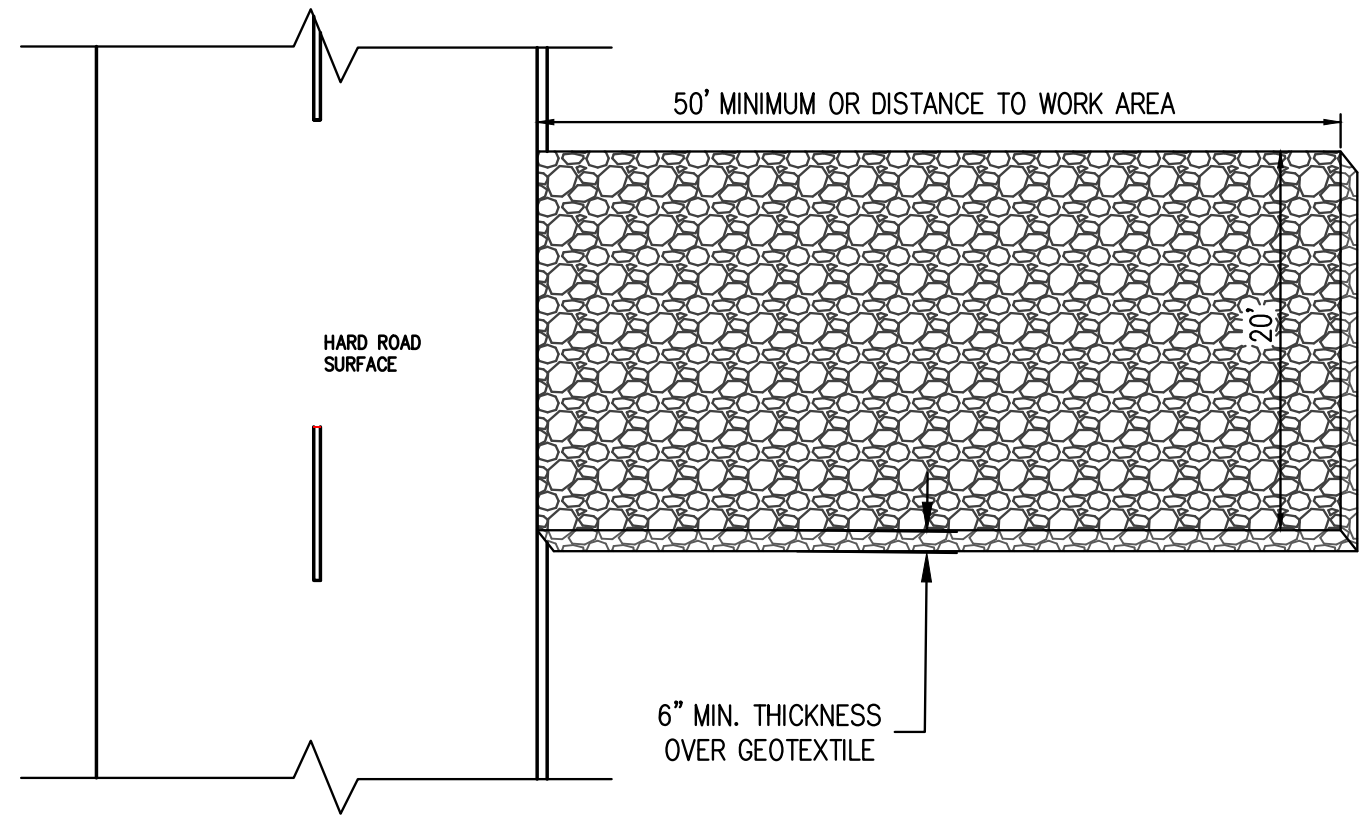
1. SLOPE INTERRUPTIONS SHALL BE PLACED ALONG CONTOUR LINES, WITH A SHORT SECTION TURNED UPGRADE AT EACH END OF THE BARRIER.
2. THE MAXIMUM LENGTH OF THE WATTLES OR LOGS SHALL NOT EXCEED 250 FEET, AND THE BARRIER ENDS SHALL BE STAGGERED.
3. INSTALL WATTLES AND BIODEGRADABLE LOGS PER MANUFACTURER'S INSTRUCTIONS.
4. SPACING OF STAKES PER MANUFACTURER'S INSTRUCTIONS WITH 2' MAX. SPACING. LENGTH OF STAKES SHALL BE A MINIMUM OF 2 TIMES THE DIAMETER OF THE LOG WITH MINIMUM OF 24".
5. WATTLES AND BIODEGRADABLE LOGS DAMAGED BY CONTRACTOR'S NEGLIGENCE, INCLUDING IMPROPER MAINTENANCE OR LACK OF MAINTENANCE, SHALL BE REPAIRED IMMEDIATELY BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. AGRICULTURAL PRODUCTS, SUCH AS NATIVE PRAIRIE HAY, USED FOR MULCHING AND EROSION CONTROL PRACTICES, EXCLUDING WOOD BASED MULCH, SHALL MEET THE NORTH AMERICAN WEED FREE FORAGE STANDARDS.

TABLE 2: PRODUCT				
		9" SEDIMENT LOG OR 8" FILTER SOCK (FT.)	12" SEDIMENT LOG OR 12" FILTER SOCK (FT.)	20" SEDIMENT LOG OR 18" FILTER SOCK (FT.)
SLOPE GRADIENT	<4H: 1 V	40	60	80
	3H: 1 V	30	45	60

TABLE 3: BIODEGRADABLE LOG MATERIAL		
	LOW FLOW	HIGH FLOW
0'-9"	STRAW / COMPOST	EXCELSIOR / WOOD CHIPS / COCONUT FIBER
1'-0"	STRAW / COMPOST	EXCELSIOR / WOOD CHIPS / COCONUT FIBER
18" - 20"	STRAW / COMPOST	EXCELSIOR / WOOD CHIPS / COCONUT FIBER



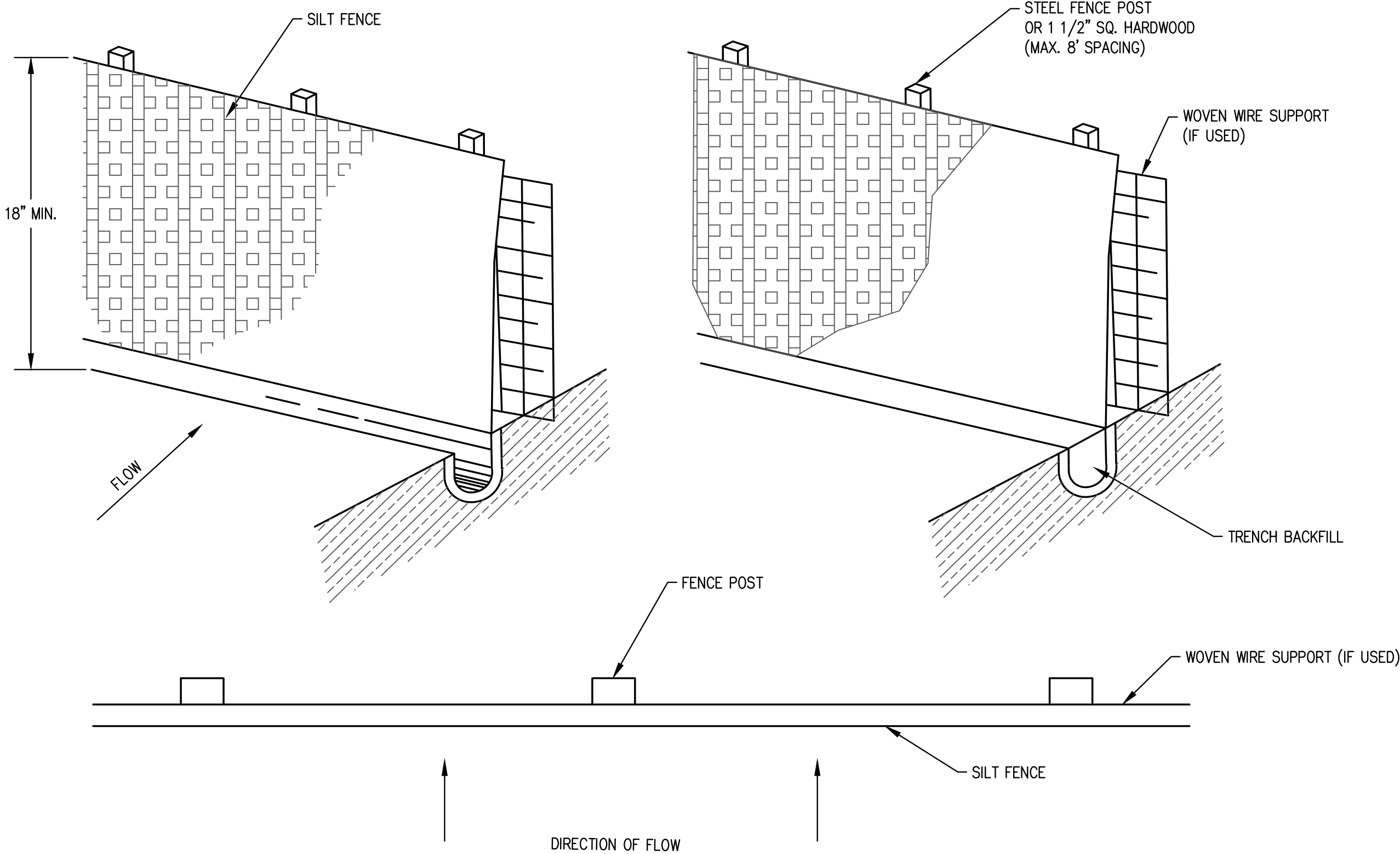
1 **WATTLES AND BIODEGRADABLE LOG**
SCALE: NTS



NOTES:

1. INSTALL PRIOR TO START OF GRADING.
2. USE 3 TO 5 INCH AGGREGATE STONE FOR COMMERCIAL APPLICATIONS AND 2 TO 3 INCH FOR RESIDENTIAL APPLICATIONS.
3. DRIVE MUST BE AT LEAST 20 FEET WIDE AND 50 FEET LONG (MINIMUM) OR THE DISTANCE TO THE FOUNDATION, WHICHEVER IS LESS.
4. REPLACE AS NEEDED TO MAINTAIN 6 INCH DEPTH OVER GEOTEXTILE.
5. REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY.

2 **TEMPORARY CONSTRUCTION ENTRANCE**
SCALE: NTS



CONSTRUCTION SPECIFICATIONS:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE AND SPACED AT A MAX. 8' APART OR TO SILT FENCE MANUFACTURER SPECIFICATIONS, WHICHEVER IS STRICTER.
2. SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE APPROXIMATELY 8" DEEP 3-4" WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE FENCE POSTS, AND SHOULD NOT EXCEED 18" ABOVE THE GROUND SURFACE.
5. WOVEN WIRE SUPPORT SHALL BE A MINIMUM 12 GAUGE WITH A MAXIMUM OF 6"x6" OPENING. WOVEN WIRE SUPPORT SHALL BE INSTALLED FOR FLOWS LONGER THAN 200 FEET.
6. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE UNIFORMLY DISTRIBUTED ON THE SOURCE AREA PRIOR TO TOPSOILING.
9. SILT FENCE SHALL BE MIRAFL-100X FILTER FABRIC OR APPROVED EQUAL.

3 **SILT FENCE DETAIL**
SCALE: NTS

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EROSION CONTROL DETAILS

NOTES:

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

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DATE: 5/24/2021
BY: JEFF ZIMMERMAN
LAYOUT: STRM-1
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE

Designed By: JAZ	5	----	----	----	----
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Checked By: DLG	3	----	----	----	----
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DETAILS-GENERAL - STRM-1

NOTES:

PROJECT NO.
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