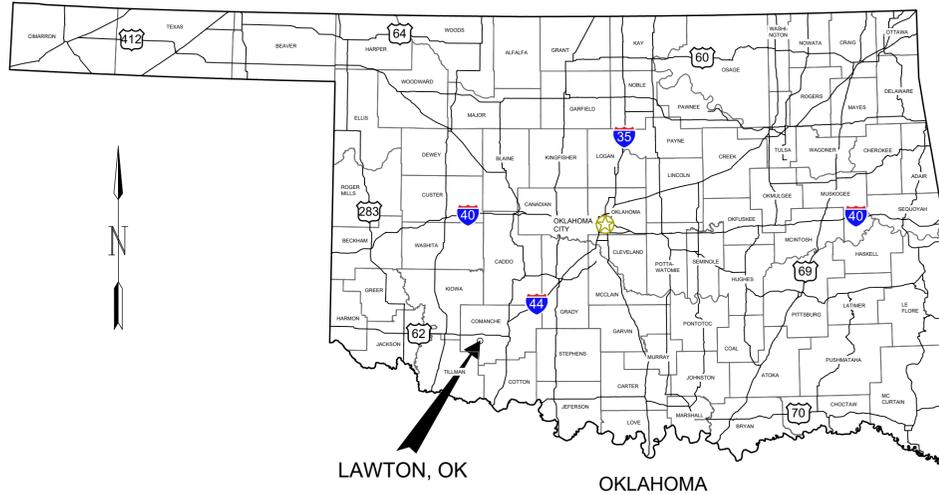


CITY OF LAWTON

PLANS OF PROPOSED
LAKE HELEN MIXED USE TRAIL
PART 1
PROJECT NO. EN-2401
MARCH 2024

T-2-N



LAWTON, OK
OKLAHOMA

LOCATION MAP



VICINITY MAP

NO SCALE

MAYOR
STAN BOOKER

CITY MANAGER
JOHN RATLIFF

LAWTON CITY COUNCIL

WARD 1 - MARY ANN HANKINS
WARD 2 - KELLY HARRIS
WARD 3 - LINDA CHAPMAN
WARD 4 - GEORGE GILL

WARD 5 - ALLAN HAMPTON
WARD 6 - DR. ROBERT WEGER
WARD 7 - SHERENE L. WILLIAMS
WARD 8 - RANDY WARREN

SHEET INDEX	
SHEET NO.	TITLE
0001	TITLE SHEET
0002	TYPICAL SECTIONS
0003	SUMMARY OF PAY QUANTITIES
0004	PLAN AND GEOMETRIC DATA
0005	ODOT RW

MAYOR: STAN BOOKER _____ DATE _____

CITY MANAGER: JOHN RATLIFF _____ DATE _____

CITY ENGINEER: JOSEPH PAINTER, PE _____ DATE _____

PROJECT ENGINEER: BRETT MORAN, PE _____ DATE _____
OK. REG. NO. 27739

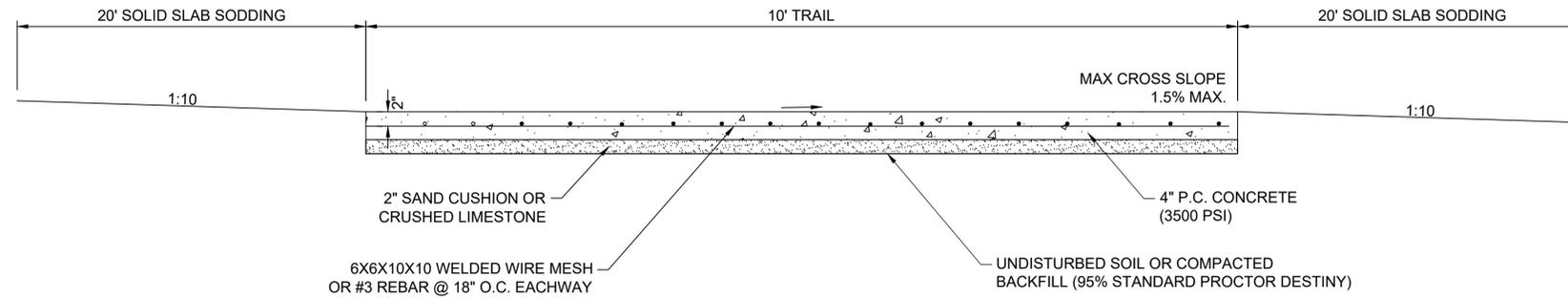


CITY OF LAWTON - ENGINEERING DIVISION



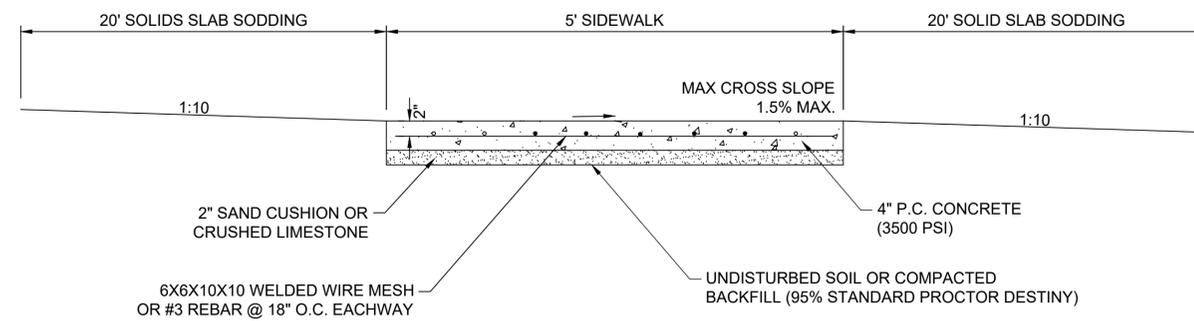
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CA #4183 EXPIRES JUNE 30, 2024



10' TRAIL TYPICAL SECTION

ALIGNMENT C: STA. 8+00.00 TO STA. 9+09.96
 ALIGNMENT B: STA. 10+00.00 TO STA. 11+49.96
 ALIGNMENT A: STA. 15+00.00 TO STA. 29+53.59



5' SIDEWALK TYPICAL SECTION

ALIGNMENT E: STA. 0+00.00 TO STA. 3+27.90
 ALIGNMENT D: STA. 4+00.00 TO STA. 7+10.66
 ALIGNMENT G: STA. 7+50.00 TO STA. 7+68.75
 ALIGNMENT B: STA. 11+49.96 TO STA. 12+50.12

REV.	DATE	DESCRIPTION	BY


 CITY OF LAWTON
 LAWTON, OKLAHOMA
 LAWTON PROJECT NO. EN-2401
 LAKE HELEN MIXED USE TRAIL

TYPICAL SECTIONS

JOB NO.: 22T28100
 DATE: MAR 2024
 DESIGNED BY: BDM
 DRAWN BY: JHS

BAR IS ONE INCH ON ORIGINAL DRAWING

 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SHEET NUMBER 0002

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File: L:\2022\22128100 - Lawton Lake Helen Trail\Drawings\22128100 - Pay Quantities.dwg, Last Save: 3/6/2024, 2:24 PM, Last saved by: BDMoran
 Last plotted by: Moran, Brett D., Plot Style: ASBULL1.TS, 1, cb, Plot Scale: 1:0.4255, Plot Date: 3/6/2024, 2:25 PM, Plotter used: DWG To PDF, pc3

General Construction Notes

Pay items listed in the bid schedule are the only pay items for the project. Any other items necessary for a complete project, but not shown in the bid schedule shall be considered an incidental item and cost to be included in other items.

The Contractor shall verify all utility locations prior to bidding project. All utility locations shown are approximate, except as noted.

Any Contractor-caused damage to utility and/or service lines, shown or not shown on the plans, shall be repaired or replaced at no cost to the City Of Lawton and shall be accomplished by the Contractor, Subcontractor, or licensed plumber as approved by the City Engineer.

The Contractor shall be responsible for notifying all utility companies prior to commencing work in the project area. Likewise, the Contractor is responsible for coordinating their work and that of the involved utilities in the project area.

The Contractor shall be responsible for furnishing all labor, material, equipment, and incidental items needed to provide adequate construction signing, barricades, traffic control devices, and other related items for the project area, during the construction period. This work is to be considered an incidental item and the cost of this item is to be included in other pay items.

The Contractor shall notify the L.P.D. Chief, L.F.D. Chief, City Engineer, Public Works Director, and all privately owned ambulance companies 24 hours in advance of when traffic is to be restricted on any street. If an emergency arises, the Contractor shall immediately notify all parties previously noted.

The Contractor shall provide reasonable access to residential, commercial and public properties in the project area. During construction, traffic may be restricted to local traffic only with approval of the City Engineer.

The Contractor shall carefully remove, store, and reinstall all City-owned signs whose removal is required by their construction work in the project area. It shall be the Contractor's responsibility to arrange for the City to inspect all signs scheduled for removal prior to their removal. Once said signs have been removed, it will be assumed that they were in good condition at the time of removal. Any signs damaged or lost by the Contractor shall be replaced at no cost to the City. Materials shall be approved by the City Engineer.

All post-mounted signs shall be reset in concrete and at the proper height and location (City to provide location).

All sidewalk and paved driveway removals shall be bounded by joints or sawcuts.

The Contractor shall be responsible for coordinating all driveway closings with the respective property owners and tenants, if property is rented.

Existing concrete drives will be replaced with 6" min. non-reinforced class 3500 PSI H.E.S. concrete as specified on the plan documents.

Property owners will be notified by the City, prior to construction, that it will be the owner's responsibility to remove or relocate fences, trees, shrubs or other property which they intend to keep. If the items are not removed at the time of construction and are in the way of construction, the Contractor shall remove and dispose of the items as directed by the City Engineer. Fences shall be reinstalled at the contractor unit price for fences as directed by the City Engineer.

The Contractor shall verify all dimensions and elevations prior to the start of work.

Any surplus excavation shall become the property of the Contractor, and disposal shall be the Contractor's responsibility at no additional cost.

The Contractor shall be responsible for all surveying and construction staking for the project.

All grading and surfacing shall be in accordance with the plan sheets and Oklahoma Department of Transportation Standard Specifications for Highway Construction.

All excavation within 2' of pavement shall be backfilled and compacted to 95% standard proctor density with limestone screenings.

The Contractor shall establish a healthy stand of Bermuda grass over areas disturbed during construction. The method of application shall be solid slab sod. The price for watering and proper maintenance is considered to be incidental and shall be included in the price bid for other items.

The Contractor shall remove and stockpile all salvaged topsoil to be used later as backfill behind curbs and drives. This is not a pay item, but cost of same is to be included in other items of work.

The Contractor shall level all disturbed areas with topsoil and hand rake to a uniform appearance. Cost shall be included in the price bid for other items.

The Contractor shall take special care not to damage trees and shrubs. Trees and shrubs shall not be removed unless so directed by the Engineer. Shrubs so removed shall be placed on the property owner's land or disposed of off-site as directed by the Engineer. All costs shall be included in the price bid for other items.

The Contractor shall take special care not to damage any sheds or other structures located on existing easements. Sheds shall not be moved unless authorized by the Engineer. All costs to remove/replace sheds shall be included in the price bid for other items.

CAUTION: For underground utility locations, contact 1-800-522-6543 prior to excavation.

Pay Quantity Notes

(R-2) Estimated quantity only. To be used in a manner approved by the Engineer for miscellaneous grading.

(R-6) For Solid Slab Sodding, Price Bid to include the cost of 10-20-10 Fertilizer. Estimated at 200 LB per 1,000 SY.

(R-7) For Solid Slab Sodding, Price Bid to include the cost of Watering. Estimated at 40 GAL per SY.

(R-8) Price Bid to include cost of all necessary maintenance, maintaining device in proper upright position, removal of device, and removal of sediment when it reaches half the height of the device.

(R-11) The Quantities estimated for Temporary Erosion and Sediment Control is 2.27 AC.

(R-40) To become the property of and be disposed of by the contractor in a manner approved by the Engineer.

Plan Notes

(1) Includes an additional 71 SY to be used at the discretion of the engineer.

PAY QUANTITIES					
ITEM NO.	CODE NO.	DESCRIPTION	NOTES	UNIT	QUANTITY
202(D)	2500	UNCLASSIFIED BORROW	(R-2)	CY	200.00
220	1100	SWPPP DOCUMENTATION AND MANAGEMENT		LSUM	1.00
221(B)	2410	TEMPORARY SILT FENCE	(R-8)	LF	2,918.00
230(A)	7200	SOLID SLAB SODDING		SY	10,986.00
232(B)	9300	SEEDING METHOD B		AC	4.58
233(A)	0200	VEGETATIVE MULCHING	(R-11)	AC	4.58
610(A)	5200	4" CONCRETE SIDEWALK	(1)	SY	2,400.00
613(A)	5220	30" R.C.P.I.P.E CLASS III		LF	50.00
613(L)	6724	30" PREFAB. CULVERT END SEC., ROUND		EA	1.00
619(B)	SPEC	REMOVAL OF PIPE END SECTION	(R-40)	EA	1.00
641	2110	MOBILIZATION		LSUM	1.00

SUMMARY OF SIDEWALK				
STATION AND LOCATION	4" CONCRETE SIDEWALK 610(A)			
	SY			
Alignment A 15+00.00 TO 29+53.59	15+00.00	TO	29+53.59	1,616.00
Alignment B 10+00.00 TO 11+49.96	10+00.00	TO	11+49.96	167.00
	11+49.96	TO	12+50.12	56.00
Alignment C 8+00.00 TO 9+09.96	8+00.00	TO	9+09.96	123.00
Alignment D 4+00.00 TO 7+10.66	4+00.00	TO	7+10.66	173.00
Alignment E 0+00.00 TO 3+27.90	0+00.00	TO	3+27.90	183.00
Alignment G 7+50.00 TO 7+68.75	7+50.00	TO	7+68.75	11.00
TOTALS:				2,329.00

SUMMARY OF SEDIMENT & EROSION CONTROL										
ALIGNMENT	STATION	TO	STATION	TEMPORARY				PERMANENT		
				SILT FENCE 221(C)	SEEDING METHOD B 232(B)	VEGETATIVE MULCHING 233(A)	* FERTILIZING TEMP (10-20-10)	SOLID SLAB SODDING 230(A)	* FERTILIZING PERM (10-20-10)	* WATERING
				LF	AC	AC	TON	SY	TON	K GAL
Alignment A	15+00.00	TO	29+53.59	1,453.60	2.67	2.67	0.41	6,461.00	0.65	258.50
Alignment B	10+00.00	TO	11+49.96	150.00	0.28	0.28	0.05	667.00	0.07	26.70
	11+49.96	TO	12+50.12	200.40	0.19	0.19	0.03	446.00	0.05	17.90
Alignment C	8+00.00	TO	9+09.96	110.00	0.21	0.21	0.04	489.00	0.05	19.60
Alignment D	4+00.00	TO	7+10.66	310.70	0.58	0.58	0.09	1,381.00	0.14	55.30
Alignment E	0+00.00	TO	3+27.90	655.80	0.61	0.61	0.10	1,458.00	0.15	58.30
Alignment G	7+50.00	TO	7+68.75	37.50	0.04	0.04	0.01	84.00	0.01	3.40
TOTALS:				2,918.00	4.58	4.58	0.73	10,986.00	1.12	439.70

* FOR CONTRACTOR'S INFORMATION ONLY, COST TO BE INCLUDED IN THE PRICE BID FOR OTHER WORK.



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CA #4183 EXPIRES JUNE 30, 2024

REV.	DATE	DESCRIPTION	BY



CITY OF LAWTON
 LAWTON, OKLAHOMA
 LAWTON PROJECT NO. EN-2401
 LAKE HELEN MIXED USE TRAIL

SUMMARY OF PAY QUANTITIES

JOB NO.: 22T28100
 DATE: MAR 2024
 DESIGNED BY: BDM
 DRAWN BY: JHS

BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

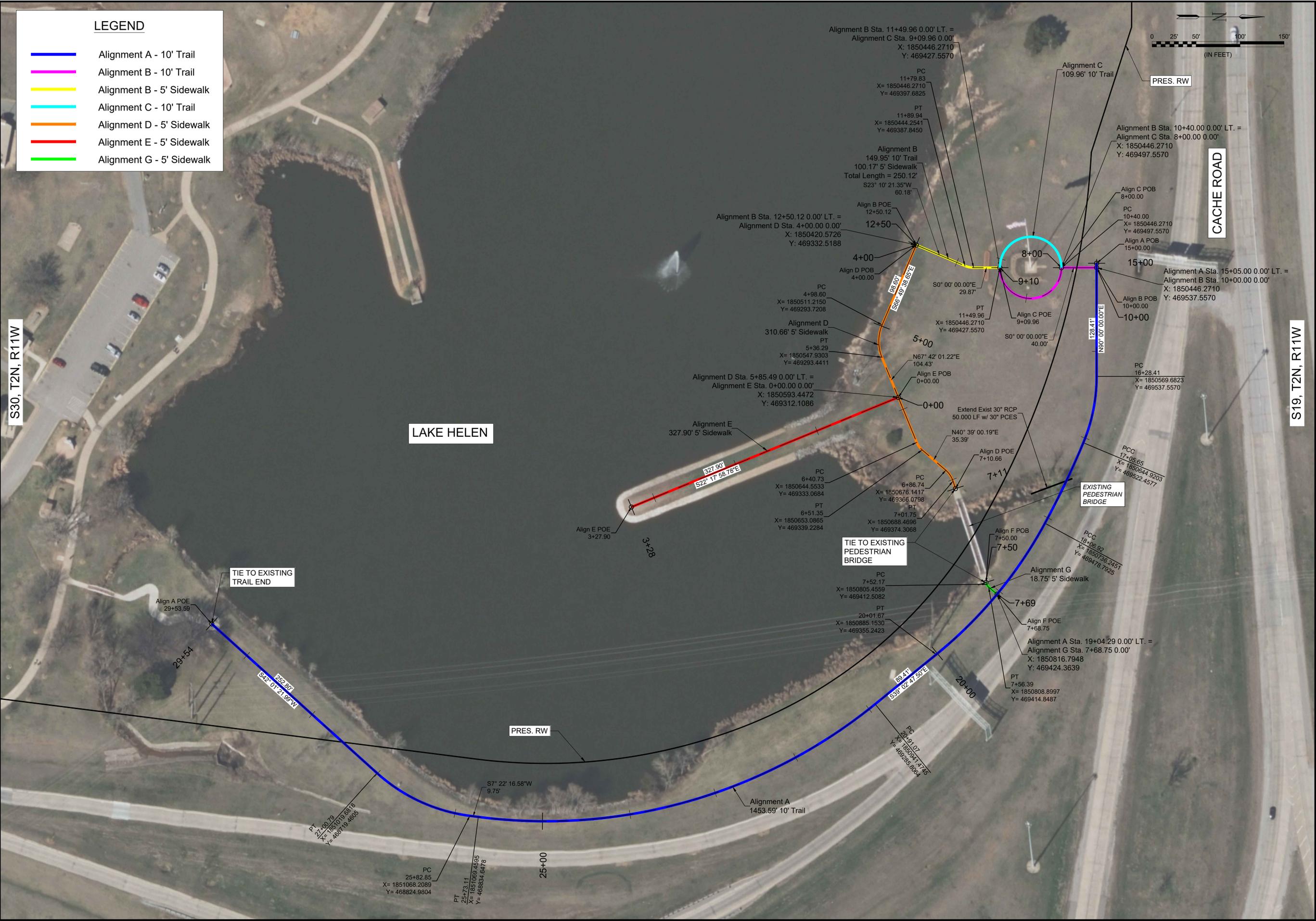
SHEET NUMBER 0003

LEGEND

- Alignment A - 10' Trail
- Alignment B - 10' Trail
- Alignment B - 5' Sidewalk
- Alignment C - 10' Trail
- Alignment D - 5' Sidewalk
- Alignment E - 5' Sidewalk
- Alignment G - 5' Sidewalk



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REV.	DATE	DESCRIPTION	BY

CITY OF LAWTON
LAWTON, OKLAHOMA

LAWTON PROJECT NO. EN-2401
LAKE HELEN MIXED USE TRAIL

PLAN AND GEOMETRIC DATA

JOB NO.: 22T28100
DATE: MAR 2024
DESIGNED BY: BDM
DRAWN BY: JHS

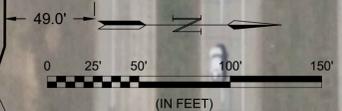
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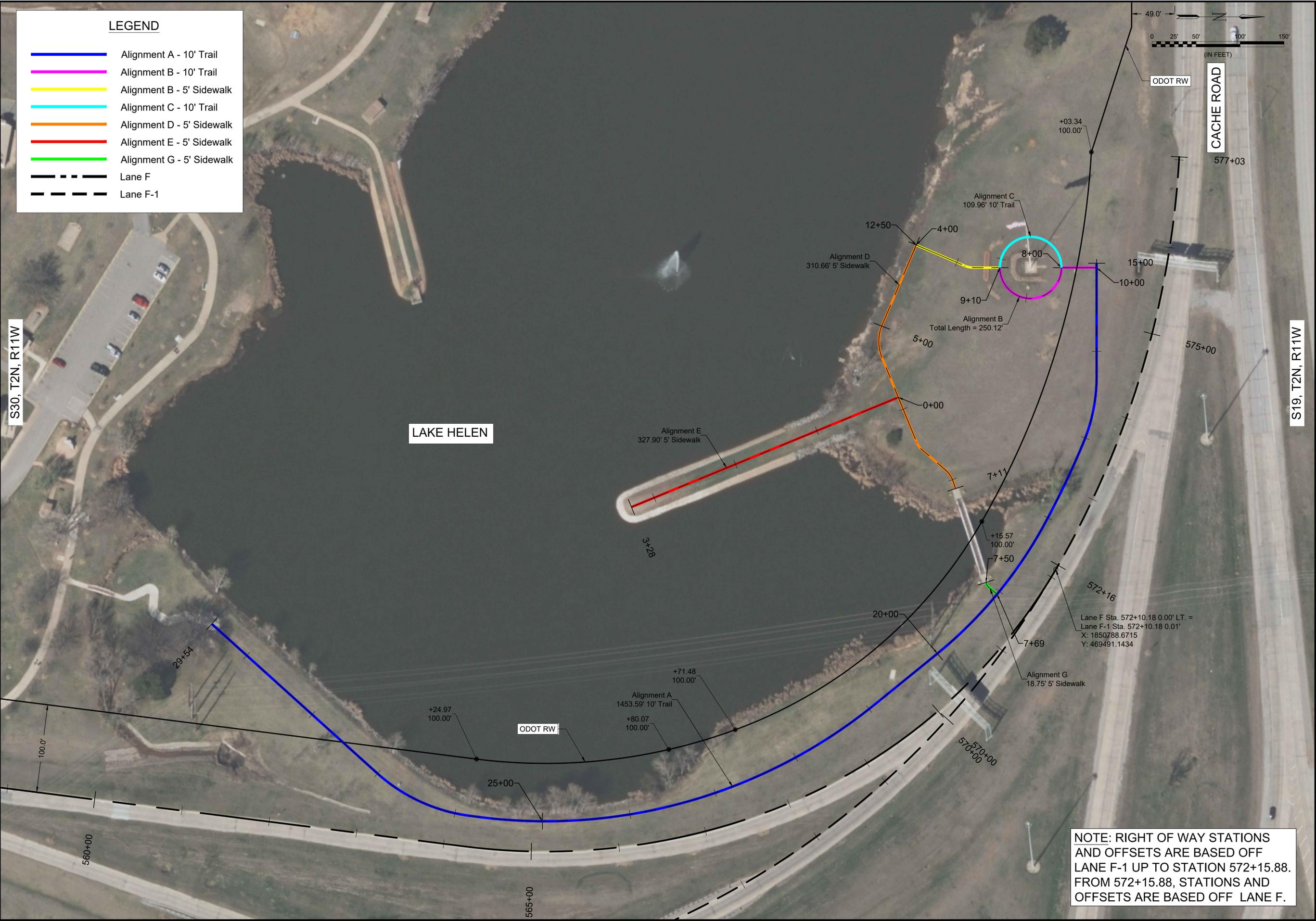
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 Last plotted by: Moran, Brett D., Plot Style: ASBULL1.TS, 1, cb, Plot Scale: 1:0, 4/25/2024 2:25 PM, Plotter used: DWG to PDF, pc3

LEGEND

- Alignment A - 10' Trail
- Alignment B - 10' Trail
- Alignment B - 5' Sidewalk
- Alignment C - 10' Trail
- Alignment D - 5' Sidewalk
- Alignment E - 5' Sidewalk
- Alignment G - 5' Sidewalk
- Lane F
- Lane F-1



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REV.	DATE	DESCRIPTION	BY

CITY OF LAWTON
 LAWTON, OKLAHOMA
 LAWTON PROJECT NO. EN-2401
 LAKE HELEN MIXED USE TRAIL

ODOT RW
 JOB NO.: 22T28100
 DATE: MAR 2024
 DESIGNED BY: BDM
 DRAWN BY: JHS

NOTE: RIGHT OF WAY STATIONS AND OFFSETS ARE BASED OFF LANE F-1 UP TO STATION 572+15.88. FROM 572+15.88, STATIONS AND OFFSETS ARE BASED OFF LANE F.

BAR IS ONE INCH ON ORIGINAL DRAWING
 0" = 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
 SHEET NUMBER **0005**