

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	DALL.				
DESCRIPTION			REVISIONS		DATE

1, 335669.0130, 2692208.8290, 0.00, CALC PI
 2, 343988.7371, 2692030.2043, 0.00, calc PI
 3, 345279.8165, 2692609.8745, 0.00,
 4, 339968.4305, 2692116.5204, 0.00, POT
 5, 340295.1652, 2692109.5054, 0.00,
 6, 342616.9521, 2692059.6565, 0.00, POT
 7, 335598.3258, 2689941.7307, 0.00, CALC PI
 8, 335784.6206, 2691834.4133, 0.00, CALC PI
 9, 341494.8887, 2692083.7473, 0.00,
 10, 355032.4517, 2698097.4945, 0.00, PC
 11, 335633.6460, 2691074.5295, 0.00, PC
 12, 336779.0050, 2691038.8177, 0.00, PC
 13, 336803.6022, 2692184.4693, 0.00, PC
 14, 343558.2710, 2692039.4464, 0.00, PC
 15, 343599.2663, 2693948.8657, 0.00, PC
 16, 344381.5284, 2692206.5602, 0.00, PC
 17, 341292.7014, 2692088.0882, 0.00,
 100, 341647.4491, 2692079.9607, 0.00, BR SPLT I
 102, 342167.0236, 2692069.0072, 0.00, BR SPLT I
 104, 349488.0525, 2694499.2927, 0.00, POT CALC
 300, 345265.42882, 2692002.79347, 465.27827, SM, FOUND 3/8 IRON PIN
 301, 345404.70389, 2697261.14432, 483.02319, SM, FD 40d NAIL
 302, 340253.72371, 2702666.99364, 454.97247, SM, FD ORIG TWP COR. INPLACE
 303, 345538.39993, 2702559.85941, 459.80610, SM, INLINE FEN NORTH
 304, 339968.08692, 2692103.06346, 537.33005, SM, FD 1/2" IP
 305, 340034.72590, 2694739.05931, 476.75979, FC, FD IP? 1" DEEP
 306, 340102.80348, 2697381.58912, 454.00857, SM, FD 1 1/2" PIPE
 307, 339898.33378, 2689463.98149, 545.24659, SM, FD 3/8" IP
 308, 339846.87604, 2686812.54109, 532.52741, SM, ODOT IP
 309, 339833.07229, 2686819.02154, 532.02842, SM, 1" IP
 310, 342463.47372, 2686738.65526, 485.93413, SM, FD PIPE
 311, 339765.21055, 2684176.79544, 514.36844, SM, ORIG 1/4 COR. STONE
 312, 345142.31877, 2697427.84883, 457.13373, SM, FD 1/2" IP
 313, 350677.85588, 2697163.66744, 568.48378, SM, STONE
 314, 350417.75116, 2686605.45235, 458.84152, SM, FD 80d
 315, 345040.24311, 2684096.47262, 476.82408, SM, FD 3/8" IP RES
 316, 344960.30723, 2681456.94559, 519.87205, SM, 5/8 IRON PIN
 317, 335557.45824, 2691841.19400, 508.94259, SM, 1/2" IP
 318, 335607.47948, 2691839.70088, 513.47203, SM, 1/2" IP
 323, 335576.30698, 2692891.74548, 493.51278, TP
 324, 335569.56993, 2692560.88186, 494.30002, IP
 325, 335681.34534, 2692604.35549, 493.51278, SM
 326, 354982.54353, 2698057.14966, 513.33447, SM, CL PAV
 327, 352791.17695, 2696302.09389, 544.97481, SM, CL PAV
 328, 340057.10673, 2692112.77426, 536.76925, SM, CL PAV
 329, 341647.68303, 2692091.85416, 468.37783, BRFL ST
 330, 341647.21523, 2692068.05727, 468.47558, BRFL
 331, 342166.78965, 2692057.09065, 468.34275, BRFL
 332, 342167.25747, 2692080.92384, 468.43857, BRFL CLS
 333, 344679.75314, 2692340.45741, 461.22262, SM, CL PAV
 334, 349488.05253, 2694499.29269, 553.15198, SM, CL PAV
 335, 354978.81546, 2698013.09604, 513.11659, RP, RP
 336, 355032.47219, 2698097.00490, 513.95714, SM, CL PAV
 337, 355854.01687, 2698754.92789, 513.95714, LOOK
 338, 371946.21575, 2701948.91551, 619.14406, SM, ORIG TWP COR
 7400, 340087.1118, 2692149.6387, 0.00, GPS CONTROL
 7401, 345227.1278, 2691977.8903, 0.00, GPS CONTROL
 7600, 339967.3572, 2692066.5319, 0.00, R/W COR
 7601, 341008.7472, 2692044.1732, 0.00, R/W COR
 7602, 341007.6740, 2691994.1847, 0.00, R/W COR
 7603, 343307.1440, 2691944.8151, 0.00, R/W COR
 7604, 343308.2173, 2691994.8035, 0.00, R/W COR
 7605, 343557.1977, 2691989.4579, 0.00, R/W COR
 7606, 344402.0080, 2692160.9467, 0.00, R/W COR
 7607, 345261.8215, 2692546.9867, 0.00, R/W COR
 7608, 339969.5037, 2692166.5088, 0.00, PC
 7609, 341010.8937, 2692144.1502, 0.00, R/W COR
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 7611, 343311.4370, 2692144.7690, 0.00, R/W COR
 7612, 343310.3638, 2692094.7805, 0.00, R/W COR
 7613, 343559.3442, 2692089.4349, 0.00, R/W COR
 7614, 344361.0488, 2692252.1736, 0.00, R/W COR
 7615, 345264.4473, 2692657.7824, 0.00, R/W COR
 7617, 345249.3227, 2692019.6008, 0.00, R/W COR
 7618, 345283.0346, 2692049.2462, 0.00, R/W COR
 7619, 345305.3154, 2692989.3867, 0.00, R/W COR
 7620, 345272.2606, 2692987.4668, 0.00, R/W COR
 7621, 345297.8116, 2692672.7623, 0.00, R/W COR
 7622, 345295.1858, 2692561.9666, 0.00, R/W COR
 7623, 345675.7575, 2692842.4529, 0.00, R/W COR
 7624, 345669.6251, 2692730.0828, 0.00, R/W COR
 7625, 345141.6727, 2691988.6325, 0.00, R/W COR
 7626, 344052.9722, 2692042.2458, 0.00, R/W COR
 7627, 343999.5306, 2692012.1443, 0.00, R/W COR

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 8001, 340172.5009, 2691889.1621, 0.00, PC
 8002, 340178.0494, 2692099.0888, 0.00, PC
 8003, 341292.4225, 2692077.9955, 0.00, PC
 8004, 341358.5605, 2694716.5086, 0.00, PC
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 8006, 342649.2170, 2693371.8096, 0.00, PC
 8007, 340001.7660, 2693422.6945, 0.00, PC
 8008, 341325.4915, 2693397.2520, 0.00, PC
 8009, 341987.3543, 2693384.5308, 0.00, PC
 8010, 342020.1183, 2694703.5998, 0.00, PC
 8011, 344603.2601, 2692015.3268, 0.00, PC
 8012, 341824.9578, 2692161.8894, 416.60, cl river
 8013, 341844.4973, 2692278.8554, 420.44, cl river
 8014, 341835.8100, 2693387.4435, 0.00, PC
 8015, 341825.5903, 2692067.9035, 0.00, PC
 8016, 344666.3505, 2694651.9649, 0.00, PC
 8017, 344608.9680, 2692253.8678, 0.00, PC
 8018, 339933.2105, 2690783.5220, 0.00, 1/16 CDR
 8019, 341219.4998, 2689439.4131, 0.00, R/W COR
 8020, 342578.7118, 2690733.8866, 0.00, 1/16 CDR
 8021, 341255.9611, 2690758.7043, 0.00,
 8022, 341289.9387, 2691988.1245, 0.00,
 8023, 340955.0896, 2692045.3252, 0.00, PC
 8024, 340579.1762, 2692053.3961, 0.00, PC
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 8026, 340846.8940, 2691897.6136, 0.00, PC
 8027, 340843.0303, 2691717.6551, 0.00, PC
 8028, 341090.0627, 2691712.3513, 0.00, PC
 8029, 339956.9900, 2691683.2112, 0.00, PC
 8030, 341846.3214, 2692346.9889, 417.74, cl river
 8031, 340387.2604, 2692057.5166, 0.00,
 8032, 341277.6203, 2691542.4051, 0.00, PC
 8033, 339955.2197, 2691616.2325, 0.00, PC
 8034, 340163.6576, 2691611.7573, 0.00, PC
 8035, 340141.9237, 2690779.6061, 0.00, PC
 8036, 340162.3930, 2691563.3388, 0.00, PC
 8037, 341274.1918, 2691418.3499, 0.00, PC
 8038, 341917.3365, 2690746.2954, 0.00, PC
 8039, 342597.7349, 2691393.4073, 0.00, PC
 8040, 341954.5903, 2692065.4617, 0.00, PC
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 8043, 340169.7266, 2691784.1987, 0.00, PC
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 8045, 340382.4713, 2691885.1877, 0.00,
 8046, 340379.6971, 2691780.2243, 0.00,
 8047, 341829.0396, 2692445.6707, 417.98, cl river
 8048, 341861.3760, 2692673.0633, 416.60, cl river
 8049, 341869.4731, 2692799.3953, 410.57, cl river
 8050, 341849.9822, 2692904.1896, 411.43, cl river
 8051, 341842.0582, 2692999.4503, 414.67, cl river
 8052, 341842.8837, 2693096.0665, 414.61, cl river
 8053, 341854.7457, 2693321.2065, 415.48, cl river
 8055, 341854.3089, 2693387.0880, 0.00,
 9025, 345390.3852, 2697275.3195, 0.00, DPR SEC COR
 9030, 345535.8083, 2702547.3142, 0.00, SPR SEC COR
 9127, 345203.8738, 2689365.3212, 0.00, SPR
 9135, 340035.4450, 2694742.3260, 0.00, 1/4 cor
 9226, 345327.9071, 2694639.0562, 0.00, SPR 1/4 COR
 9235, 342616.7580, 2692052.9280, 0.00, SPR 1/4 COR
 9236, 342746.5941, 2697328.4542, 0.00, SPR 1/4 COR
 9334, 342540.6656, 2689414.8452, 0.00, C-1/4 COR
 9335, 342681.6761, 2694690.6911, 0.00, C-1/4 COR

OKLAHOMA DEPARTMENT OF TRANSPORTATION
 Survey Division (405)521-2621 Fax 405-522-0364
 Date: June 24, 2010

To: Mr. Larry Reser, Chief of Surveys
 From: Ricky E. Steele, Professional Land Surveyor
 Subject: SW04578(1)- J/P26346(04) 1/32 U.S. 271 1/32 PUSHMATAHA COUNTY
 Bridge over the Kiamichi River, Approx. 2 miles north of Antlers.
 HISTORICAL LETTER AND WRITTEN REPORT

Method of Survey * Conventional Survey Methods
 Units of Measurement - U.S. Survey Foot.
 Survey Began 1/32 April 1, 2010
 Survey Completed 1/32 June 24, 2010

1. General
 Previous Surveys and plans used on this project.
 Surveys:
 SW0 385 1/32 O.S.H. & U.S. 271 from Antlers East and
 North to the City Limits.
 SW0 621 Proposed S.H. 3 Grade and Drainage Project from Antlers East, 1936 survey.
 SAP 598 1/32 S.H. 10 Inow U.S. 271 Alignment Notes from Antlers easterly and northerly
 to Clayton.
 Plans:
 S.A.P. 598 J 1/32 U.S. 271 From Antlers northerly to Finley.

2. Survey Assignment:
 This project was assigned to the Antlers Survey Crew, under my direct supervision by
 letter detailing the survey scope and special provisions dated March 23, 2010 by
 Mr. Jeff King Transportation Survey Manager.

3. Purpose of Survey:
 The purpose of this survey was to obtain adequate information for the design and
 construction of a new bridge and approaches and shoulders.

4. Survey Limits:
 This survey begins at E-W 191 Section Line and extends Northerly along and identical
 to Present U.S. 271 through the curve lying just North of the overflow bridge to 117 1/2
 intersection with E-W 190. The width of this survey is 150 feet left and 300 feet
 right of centerline of survey. The visible bridge abutments and piers on the old bridge
 East of the existing bridge were also located and can be found in the TOPO file and
 represented by Break Lines in the SFF file. a Swinging Foot Bridge, South and West
 of the existing bridge was located and can be found in the project TOPO file.
 A Flowline profile of the Kiamichi River 1000 foot upstream and downstream can be found
 represented by a breakline in the SFF file.

5. Alignment:
 The alignment for this survey is along and identical to Present U. S.271 as
 depicted on SAP 598 Plans. There are 2 tangents on this survey, the following
 original monumentation was used to establish Centerline of Survey:
 A. Found 2 orig. RPs at PC Sta. 7+63.9 and orig. PI Sta. 15+30.7 on SW0 621 Farm
 to Market survey, these points used to calculate PI Sta. 52+53.6 on U.S. 271.
 B. Split of North End Kiamichi River Bridge POT Sta. 112+19.42 on SAP 598 Plans.
 C. Used Existing Asphalt Pavement for forward tangent.

6. Stationing:
 Stationing was taken from PI Sta. 52+53.6 on SAP598J U.S. 271 Plans and carried forward
 without equation to POT Sta. 90+73.19 Begin this project, and continue north and easterly
 to POT Sta. 144+95.50, End this project.

7. Horizontal Control:
 Horizontal Control for this survey is the Oklahoma State Plane Coordinate System,
 NAD 83 (1993) Lambert Projection South Zone derived submitting Leica GPS rawdata
 from 3 hour static sessions to NGS OPUS for processing. Two project control monuments
 were established for this survey; one near the beginning, and end of the project.
 The project control Monuments on this project are 5/8" x 3/4" Iron Pins set flush with the ground.
 Secondary Control for this survey is Centerline of Survey POT, POST and Curve Points set
 and referenced using GPS Real Time Kinematic methods, following accepted ODOT Survey
 Division methods and techniques. The primary control network, the secondary control
 network and the section boundaries for this survey are in general compliance with
 NGS Second Order, Class II Standards for horizontal control (1:20,000).
 It is assumed that the GPS positional accuracies obtained have met or exceeded this standard.

8. Vertical Control:
 Level datum for this survey is (NGS)N.A.V.D. 88 taken from N.G.S. BM 100 (EK0584)ELEV. 497.00
 and a double set of spirit levels were run with a Leica NA 2002 Digital Level through the project
 benchmarks and tied to the O.P.U.S. solution for GPS Control point 7401 at North end of project.
 The complete Benchmark list containing descriptions and amount of adjustment was created in
 Microsoft Excel, this report can be found in the project archive and as graphics in the Survey
 Data Sheets This survey meets the requirements of N.G.S. 3rd order standards as a minimum.

9. Topography:
 Topographic information was obtained by field conventional methods. Surface improvements
 and underground utilities such as; Fences, drives, mail boxes, signs etc. have been labeled
 and can be found in the project ITDPOI File.

10. Surface features:
 The surface features on this project were obtained by the field conventional method,
 a Surface Feature File (SFF), which is a Microstation V8i Design File containing
 breaklines and random ground points for contouring and quantity computations has been
 created and archived as per instructions.

11. Land & Property Ties:
 Complete land ties were obtained on Sections A complete history of the PLSS Corners
 established on this project can be found on the Geometric Datasheet in this file.

12. Right-of-Way:
 The Right-of-Way on this survey is taken from SAP598 J Plans and verified using
 R/W deeds provided by Right-of-Way Division.

13. Utilities:
 The underground utilities on this project were flagged or taken from digital records by
 the owning companies or their representatives with the help of crew personnel.
 Utilities were located by conventional methods and placed in the project design file
 of zero elevation and labeled with owner name, size and depth, when provided.
 ODOT Form SD-7, "Public and Privately Owned Utilities List," have been submitted with
 this project. Contact information for utility owners can be found on the 1st Survey
 Data Sheet.

14. Hazardous Materials or Waste Sites:
 There were no hazardous waste sites found during this survey.
 There were no abandoned underground storage tanks found on this project.

- 15. Drainage Information:
 a. Drainage areas for all drains crossing the Survey Centerline were taken
 from digital USGS Quad, maps projected to project datum, the divide lines
 between these drainage areas have been placed in a Microstation V8 Design
 File and archived as per instructions.
- b. Highwater information was obtained by interviewing longtime residents in
 the area, this information can be found placed in the Microstation V8
 Drainage Design File.
- c. No Ravine sections for drains crossing the Survey Centerline were required
 on this survey.
- d. Flowline profiles have been obtained on drains crossing Centerline of
 Survey 500' Upstream and 1000' downstream.

16. Submission of Survey Data:
 All digital survey data has been placed in the appropriate project folder on
 the ODOT Intranet storage system as per archiving instruction dated May 20, 2003
 see: http://intranet/engrgrp/survey/fsvarch/SW04523 1/index.txt
 For a complete listing of computer files created and archived on this project
 see: http://intranet/engrgrp/survey/fsvarch/SW04523 1/index.txt

In addition to the computer files submitted, hard copies of the following have
 been submitted to the Central Survey Office:

- A. Historical Letter & Written Report.
- B. Form SD-1, Transmittal Letter w/FSVARCH.INDEX attached.
 Note: The FSVARCH.INDEX is a listing of all computer files archived
 during the course of the survey, as well as a written description
 of what is contained in each of the files, and the date the files
 were archived.
- C. Form SD-7, Public and Privately Owned Utilities List w/ vicinity
 map on back.
- D. Form SD-9, Final Cost Report of Survey
- E. (2) Form SD-11, Position and Description of Survey Monuments GPS
 control monuments, Brass/Aluminum Caps for benchmarks, etc.(if applicable).
- F. Form SD-20, Survey Control Data Statement.
- H. Form SD-41, Surveyor's Certification.
- I. Cogo Data (coordinate list with alignments).
- J. Benchmarks & Check Levels list, including the SW0 and description
- K. Original and reduced copies (8 1/2" x 11") of Certified Land Corner Forms.

PLS		OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN		SURVEY DIVISION
CHECKED		SURVEY DATA SHEET
APPROVED		
CREW		
SW0 _____ () PROJECT NO. 26346(04) SHEET NO. 74		