

PAGE 1 OF 1 CHECK LEVELS SW04578(1)					BENCH MARK LIST NAVD 88 DATUM		
BM NO.	RUN 1	RUN 2	MEAN DIFF.	DIFF. USED	ADJ. ELEV.	PUBLISHED ELEV.	BM DESCRIPTION
B-100					497.00	497.00	NGS BRASS CAP SET IN HDWL.(See Datasheet EK0584)
	40.90	40.90	40.90	40.90			
BM1					537.90		BOX ON CL EAST HDWL. CULVT. 14.8 RT. STA.81+92
	-0.70	-0.69	-0.69	-0.69			
BM2					537.21		BOX ON CL EAST HDWL. 14.84RT. STA.90+26.20
	0.69	0.68	0.68	0.69			
BM3 7400					537.90	537.86	TOP 1/2" IRON PIN SET FOR GPS CONTROL RT. STA.
	-16.74	-16.75	-16.75	-16.74			
BM4					521.15		BOX ON CL EAST HDWL. CULVT. 35.65 RT. STA. 91+91.3
	-19.36	-19.36	-19.36	-19.36			
BM5					501.79		BOX ON S.E. COR. CONC. SLAB 81.34 LT. STA.100+09.1
	-32.17	-32.17	-32.17	-32.17			
BM6					469.63		BOX ON CL EAST HDWL. CULVT.15.34 RT. STA.105+82.7
	-0.66	-0.66	-0.66	-0.66			
BM7					468.97		BOX ON S.E. WINGWALL BRIDGE 17.66 RT. STA.107+51
	-0.04	-0.04	-0.04	-0.04			
BM8					468.93		BOX ON N.E. WINGWALL BRIDGE 18.1 RT. STA.112+73.6
	-2.75	-2.75	-2.75	-2.75			
BM9					466.18		BOX ON S.E. WINGWALL BRIDGE 18'RT. STA.119+04
	-0.03	-0.03	-0.03	-0.03			
BM10					466.16		BOX ON N.E. WINGWALL BRIDGE 18.6 RT. STA.122+01.4
	-8.45	-8.45	-8.45	-8.45			
BM11					457.71		TOP DELINATOR POST 67.4'LT. STA.130+44
	-3.72	-3.72	-3.72	-3.72			
BM12					454.00		BOX ON CL EAST HDWL. CULVT. 26.7'RT. STA.136+87
	-1.28	-1.27	-1.28	-1.26			
BM13					452.74		BOX ON CL WEST HDWL. CULVT. 26.4 LT. STA.143+85
	13.44	13.43	13.44	13.44			
BM14-7401					466.18	466.18	TOP 1/2" IRON PIN GPS CONTROL 555 LT. STA. 141+88.6

Project Name: SW04578\*1\*V1  
Description: US271 KIAMICHI RIVER BRIDGE SURVEY  
Horizontal Alignment Name: R001  
Description: W-R/W  
Style: Present R/W

Element: Linear  
POB ( 7600) 0+00.00 2692066.5319 339967.3572  
PI ( 7601) 10+41.63 2692044.1732 341008.7472  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 1041.63

Element: Linear  
STATION EASTING NORTHING  
PI ( 7601) 10+41.63 2692044.1732 341008.7472  
PI ( 7602) 10+91.63 2691994.1847 341007.6740  
Tangent Direction: S 88°46'12.17" W  
Tangent Length: 50.00

Element: Linear  
PI ( 7602) 10+91.63 2691994.1847 341007.6740  
PI ( 7603) 33+91.63 2691944.8151 343307.1440  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 2300.00

Element: Linear  
PI ( 7603) 33+91.63 2691944.8151 343307.1440  
PI ( 7604) 34+41.63 2691994.8035 343308.2173  
Tangent Direction: N 88°46'12.17" E  
Tangent Length: 50.00

Element: Linear  
PI ( 7604) 34+41.63 2691994.8035 343308.2173  
PC ( 7605) 36+90.67 2691989.4579 343557.1977  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 249.04

Element: Circular  
PC ( 7605) 36+90.67 2691989.4579 343557.1977  
PI ( ) 41+32.51 2691979.9739 343998.9334  
CC ( 15) 2693948.8657 343599.2663  
PT ( 7606) 45+59.81 2692160.9467 344402.0080  
Radius: 1959.86  
Delta: 25°24'32.86" Right  
Degree of Curvature(Arc): 2°55'24.47"  
Length: 869.14  
Tangent: 441.84  
Chord: 862.04  
Middle Ordinate: 47.98  
External: 49.19  
Tangent Direction: N 1°13'47.83" W  
Radial Direction: N 88°46'12.17" E  
Chord Direction: N 11°28'28.60" E  
Radial Direction: S 65°49'14.96" E  
Tangent Direction: N 24°10'45.04" E

Element: Linear  
PT ( 7606) 45+59.81 2692160.9467 344402.0080  
POE ( 7607) 55+02.31 2692546.9867 345261.8215  
Tangent Direction: N 24°10'45.04" E  
Tangent Length: 942.50

Project Name: SW04578\*1\*V1  
Description: US271 KIAMICHI RIVER BRIDGE SURVEY  
Horizontal Alignment Name: R002  
Description: E-R/W  
Style: Present R/W

Element: Linear  
STATION EASTING NORTHING  
POB ( 7608) 0+00.00 2692166.5088 339969.5037  
PI ( 7609) 10+41.63 2692144.1502 341010.8937  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 1041.63

Element: Linear  
PI ( 7609) 10+41.63 2692144.1502 341010.8937  
PI ( 7610) 10+91.63 2692194.1387 341011.9670  
Tangent Direction: N 88°46'12.17" E  
Tangent Length: 50.00

Element: Linear  
PI ( 7610) 10+91.63 2692194.1387 341011.9670  
PI ( 7611) 33+91.63 2692144.7690 343311.4370  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 2300.00

Element: Linear  
PI ( 7611) 33+91.63 2692144.7690 343311.4370  
PI ( 7612) 34+41.63 2692094.7805 343310.3638  
Tangent Direction: S 88°46'12.17" W  
Tangent Length: 50.00

Element: Linear  
PI ( 7612) 34+41.63 2692094.7805 343310.3638  
PC ( 7613) 36+90.67 2692089.4349 343559.3442  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 249.04

Element: Circular  
PC ( 7613) 36+90.67 2692089.4349 343559.3442  
PI ( ) 41+09.96 2692080.4347 343978.5407  
CC ( 15) 2693948.8657 343599.2663  
PT ( 7614) 45+15.47 2692252.1736 344361.0488  
Radius: 1859.86  
Delta: 25°24'32.86" Right  
Degree of Curvature(Arc): 3°04'50.34"  
Length: 824.80  
Tangent: 419.29  
Chord: 818.06  
Middle Ordinate: 45.53  
External: 46.68  
Tangent Direction: N 1°13'47.83" W  
Radial Direction: N 88°46'12.17" E  
Chord Direction: N 11°28'28.60" E  
Radial Direction: S 65°49'14.96" E  
Tangent Direction: N 24°10'45.04" E

Element: Linear  
PT ( 7614) 45+15.47 2692252.1736 344361.0488  
POE ( 7615) 55+05.74 2692657.7824 345264.4473  
Tangent Direction: N 24°10'45.04" E  
Tangent Length: 990.28

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

Project Name: SW04578\*1\*V1  
Description: US271 KIAMICHI RIVER BRIDGE SURVEY  
Horizontal Alignment Name: a001  
Description: centerline of survey  
Style: Centerline

Element: Linear  
STATION EASTING NORTHING  
POB ( 4) 90+73.19 2692116.5204 339968.4305  
PC ( 14) 126+63.86 2692039.4464 343558.2710  
Tangent Direction: N 1°13'47.83" W  
Tangent Length: 3590.67

Element: Circular  
PC ( 14) 126+63.86 2692039.4464 343558.2710  
PI ( ) 130+94.42 2692030.2043 343988.7371  
CC ( 15) 2693948.8657 343599.2663  
PT ( 16) 135+10.83 2692206.5602 344381.5284  
Radius: 1909.86  
Delta: 25°24'32.86" Right  
Degree of Curvature(Arc): 3°00'00.00"  
Length: 846.97  
Tangent: 430.57  
Chord: 840.05  
Middle Ordinate: 46.76  
External: 47.93  
Tangent Direction: N 1°13'47.83" W  
Radial Direction: N 88°46'12.17" E  
Chord Direction: N 11°28'28.60" E  
Radial Direction: S 65°49'14.96" E  
Tangent Direction: N 24°10'45.04" E

Element: Linear  
PT ( 16) 135+10.83 2692206.5602 344381.5284  
POE ( 3) 144+95.50 2692609.8745 345279.8165  
Tangent Direction: N 24°10'45.04" E  
Tangent Length: 984.67

PLS		OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAWN		SURVEY DIVISION
CHECKED		<b>SURVEY DATA SHEET</b>
APPROVED		
CREW		
SDS _____ OF _____		SWO _____ ( ) PROJECT NO. 26346(04) SHEET NO. 75