## Horizontal Alignment Review Report

Report Created: 10/8/2020 Time: 3:46pm

Project: Horizontal\_Fit\_Geometry

Description: File Name:

Last Revised: CTLUCK 10/8/2020 3:45:54 PM

Input Grid Factor: 1.00000000 Note: All units in this report are in feet unless specified otherwise.

Alignment Name: Horizontal\_Fit\_Geometry

**Alignment Description:** 

Alignment Style: Default

<b>.</b>	Station	Northing	Easting
Element: Linear			
POB ()	0+00.00	60998.66	315695.70
PC ()	2+19.61	60998.22	315476.09
Tangential Direction:	S 89°53'07" W		
Tangential Length:	219.61		
Element: Circular			
PC ()	2+19.61	60998.22	315476.09
PI ()	3+21.87	60998.02	315373.82
CC ()		61348.22	315475.39
PT ()	4+18.60	61052.91	315287.54
Radius:	350.00	350.0130	
Delta:	32°34'28"	Right	
Degree of Curvature (Arc):	16°22'13"		
Length:	198.99		
Tangent:	102.26		
Chord:	196.32		
Middle Ordinate:	14.05		
External:	14.63		
Tangent Direction:	S 89°53'07" W		
Radial Direction:	N 0°06'53" W		
Chord Direction:	N 73°49'39" W		
Radial Direction:	N 32°27'35" E		
Tangent Direction:	N 57°32'25" W		
Element: Linear			
PT ()	4+18.60	61052.91	315287.54
PC ()	4+60.59	61075.45	315252.10
Tangential Direction:	N 57°32'25" W		
Tangential Length:	42.00		

Element: Circular

PC () 4+60.59 61075.45 315252.10 PI () 5+40.42 61118.29 315184.75 CC () 60822.31 315091.09 PT () 6+16.63 61121.99 315105.01 Radius: 300.00 299.98 Detta: 29°48'04" Left  Degree of Curvature (Arc): 19°05'55" Length: 156.04 Tangent: 79.83 Chord: 154.29 Middle Ordinate: 10.09 External: 10.44 Tangent Direction: N 57°32'25" W Radial Direction: N 32°27'35" E Chord Direction: N 72°26'27" W Radial Direction: N 87°20'29" W  Element: Linear  PT () 6+16.63 61121.99 315105.01 PC () 7+53.11 61128.32 314968.67 Tangential Direction: N 87°20'29" W  Element: Circular  PC () 7+53.11 61128.32 314968.67 Tangential Length: 136.48  Element: Circular  PC () 7+53.11 61128.32 314968.67 PI () 8+77.73 61134.10 314844.19 CC () 9+89.33 350.013061049.98 314752.25 Radius: 300.00 Delta: 45°06'54" Left Degree of Curvature (Arc): Length: 236.22 Tangent: 124.62 Chord: 230.17 Middle Ordinate: 22.95 External: 24.85 Tangent Direction: N 87°20'29" W Radial Direction: N 92°37" W Radial Direction: N 87°20'29" W Radia				
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PT () 6+16.63 61121.99 315105.01 Radius: 300.00 299.98 Delta: 29°48'04" Left Degree of Curvature (Arc): 19°05'55" Length: 156.04 Tangent: 79.83 Chord: 154.29 Middle Ordinate: 10.09 External: 10.44 Tangent Direction: N 57°32'25" W Radial Direction: N 72"26'27" W Radial Direction: N 72"26'27" W Radial Direction: N 87"20'29" W  Element: Linear  PT () 6+16.63 61121.99 315105.01 PC () 7+53.11 61128.32 314968.67 PG () 8+77.73 61134.10 314844.19 CC () 69.83 350.013061049.98 314752.25 Radius: 300.00 Delta: 45°06'54" Left Degree of Curvature (Arc): 19°05'55" Length: 236.22 Tangent: 124.62 Chord: 230.17 Middle Ordinate: 22.95 External: 24.85 Tangent Direction: N 87°20'29" W Radial Direction: N 8	PI ()	5+40.42	61118.29	315184.75
Radius	CC ()		60822.31	315091.09
Delta:	PT ()	6+16.63	61121.99	315105.01
Degree of Curvature (Arc):	Radius:	300.00	299.98	
Length: Tangent: 79.83   Chord: 154.29	Delta:	29°48'04"	Left	
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Middle Ordinate:	_	154.29		
External:	Middle Ordinate:			
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Tangent Direction: N 87°20'29" W Radial Direction: N 2°39'31" E Chord Direction: S 70°06'04" W Radial Direction: N 42°27'23" W Tangent Direction: S 47°32'37" W  Element: Linear  PT () 9+89.33 61049.98 314752.25 PC () 10+32.22 61021.03 314720.61 Tangential Direction: S 47°32'37" W				
Radial Direction:       N 2°39'31" E         Chord Direction:       S 70°06'04" W         Radial Direction:       N 42°27'23" W         Tangent Direction:       S 47°32'37" W             Element: Linear       PT ()       9+89.33 61049.98 314752.25         PC ()       10+32.22 61021.03 314720.61         Tangential Direction:       S 47°32'37" W				
Chord Direction: S 70°06'04" W Radial Direction: N 42°27'23" W Tangent Direction: S 47°32'37" W  Element: Linear  PT () 9+89.33 61049.98 314752.25 PC () 10+32.22 61021.03 314720.61 Tangential Direction: S 47°32'37" W	G			
Radial Direction: N 42°27'23" W Tangent Direction: S 47°32'37" W  Element: Linear  PT () 9+89.33 61049.98 314752.25  PC () 10+32.22 61021.03 314720.61  Tangential Direction: S 47°32'37" W				
Tangent Direction: S 47°32'37" W  Element: Linear  PT () 9+89.33 61049.98 314752.25  PC () 10+32.22 61021.03 314720.61  Tangential Direction: S 47°32'37" W				
Element: Linear  PT () 9+89.33 61049.98 314752.25  PC () 10+32.22 61021.03 314720.61  Tangential Direction: S 47°32'37" W				
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PT () 9+89.33 61049.98 314752.25 PC () 10+32.22 61021.03 314720.61 Tangential Direction: S 47°32'37" W	Floment: Linear			
PC () 10+32.22 61021.03 314720.61 Tangential Direction: S 47°32'37" W		0.00.00	64040.00	244750.05
Tangential Direction: S 47°32'37" W	( )			
•	( )		61021.03	314/20.61
rangentiai Length: 42.88	_			
	i angentiai Length:	42.88		

Element: Circular		60968.8728739349, 314663.4418271589			
PC	()	10+32.22	61021.03	314720.61	
PI	()	11+09.89	60968.60	314663.30	
CC	()		61294.02	314470.85	
PT	()	11+85.35	60943.64	314589.74	
	Radius:		369.99	011000.11	
	Delta:	23°42'47" R			
Degree of Curvatu		15°29'07"	agrit		
Degree of Curvatu	` ,	153.13			
7	Length:				
Tangent: Chord:		77.68			
		152.04			
Middle Ordinate:		7.89			
External:		8.07			
Tangent D	irection:	S 47°32'37" W			
Radial D	irection:	N 42°27'23" W			
Chord D	irection:	S 59°24'01" W			
Radial D	irection:	N 18°44'36" W			
Tangent D	irection:	S 71°15'24" W			
E					
Element: Linear PT	()	11+85.35	60943.64	314589.74	
	()				
PC		12+52.50	60922.06	314526.15	
Tangential D		S 71°15'24" W			
Tangential	Length:	67.15			
9	Ū				
Element: Circular	ŭ		60886.1355050224	174, 314436.2908064162	
_	J	12+52.50	60886.1355050224 60922.06	314526.15	
Element: Circular	()	12+52.50 13+07.47			
Element: Circular PC PI	()		60922.06	314526.15 314474.09	
Element: Circular PC PI CC	()	13+07.47	60922.06 60904.40 60069.79	314526.15 314474.09 314815.35	
Element: Circular PC PI	() () () ()	13+07.47 13+62.31	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09	
Element: Circular PC PI CC	( ) ( ) ( ) ( ) Radius:	13+07.47 13+62.31 900.00	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT	( ) ( ) ( ) ( ) Radius: Delta:	13+07.47 13+62.31 900.00 6°59'27" L	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC	( ) ( ) ( ) ( ) Radius: Delta: re (Arc):	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58"	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT Degree of Curvature	( ) ( ) ( ) ( ) Radius: Delta: re (Arc): Length:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT Degree of Curvature	( ) ( ) ( ) ( ) Radius: Delta: re (Arc): Length: Tangent:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatu	( ) ( ) ( ) ( ) Radius: Delta: re (Arc): Length: angent: Chord:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C	() () () () Radius: Delta: re (Arc): Length: angent: Chord: Ordinate:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C	() () () Radius: Delta: re (Arc): Length: angent: Chord: Ordinate: External:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C	() () () Radius: Delta: re (Arc): Length: angent: Chord: Ordinate: External:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C	() () () Radius: Delta: re (Arc): Length: angent: Chord: Ordinate: External: irection:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D	() () () Radius: Delta: re (Arc): Length: angent: Chord: Ordinate: External: irection:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D	() () () () Radius: Delta: re (Arc): Length: Tangent: Chord: Ordinate: External: irection: irection:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D Chord D	() () () () Radius: Delta: re (Arc): Length: angent: Chord: ordinate: external: irection: irection: irection: irection:	13+07.47 13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W S 67°45'41" W	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D Chord D Radial D Tangent D	() () () () Radius: Delta: re (Arc): Length: angent: Chord: ordinate: external: irection: irection: irection: irection:	13+07.47  13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W S 67°45'41" W N 25°44'03" W	60922.06 60904.40 60069.79 60880.53	314526.15 314474.09 314815.35	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D Chord D Radial D Tangent D Tangent D	() () () () Radius: Delta: re (Arc): Length: angent: Chord: ordinate: external: irection: irection: irection: irection: irection:	13+07.47  13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W S 67°45'41" W N 25°44'03" W S 64°15'57" W	60922.06 60904.40 60069.79 60880.53 899.8 eft	314526.15 314474.09 314815.35 314424.57	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D Chord D Radial D Tangent D Tangent D Element: Linear PT	() () () () Radius: Delta: re (Arc): Length: Tangent: Chord: Ordinate: External: irection: irection: irection: irection:	13+07.47  13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W S 67°45'41" W N 25°44'03" W S 64°15'57" W	60922.06 60904.40 60069.79 60880.53 899.8 eft	314526.15 314474.09 314815.35 314424.57	
Element: Circular PC PI CC PT  Degree of Curvatur  Middle C E Tangent D Radial D Chord D Radial D Tangent D Tangent D	() () () Radius: Delta: re (Arc): Length: Tangent: Chord: Ordinate: External: irection: irection: irection: irection: irection:	13+07.47  13+62.31 900.00 6°59'27" L 6°21'58" 109.81 54.97 109.74 1.67 1.68 S 71°15'24" W N 18°44'36" W S 67°45'41" W N 25°44'03" W S 64°15'57" W	60922.06 60904.40 60069.79 60880.53 899.8 eft	314526.15 314474.09 314815.35 314424.57	

Tangential Length:

210.54