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PROJECT REFERENCE NO. I-4400BB	SHEET NO. RW24
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

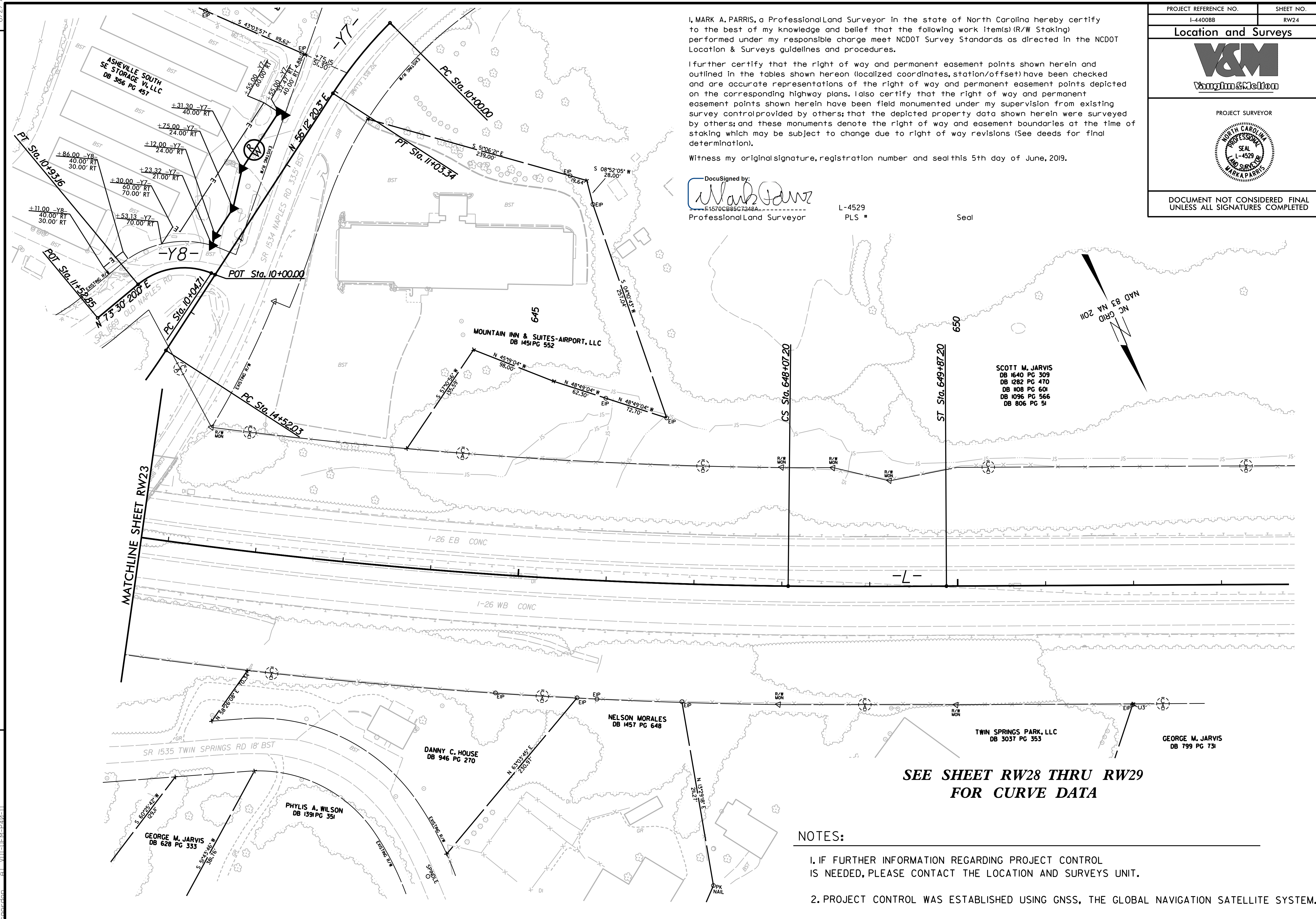
I, MARK A. PARRIS, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. Also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 5th day of June, 2019.

DocuSigned by:

E1570CB85C7248A
Professional Land Surveyor
L-4529
PLS #
Seal



SCOTT M. JARVIS
DB 1640 PG 309
DB 1282 PG 470
DB 1008 PG 601
DB 1096 PG 566
DB 806 PG 51

GEORGE M. JARVIS
DB 799 PG 731



**SEE SHEET RW28 THRU RW29
FOR CURVE DATA**

NOTES:

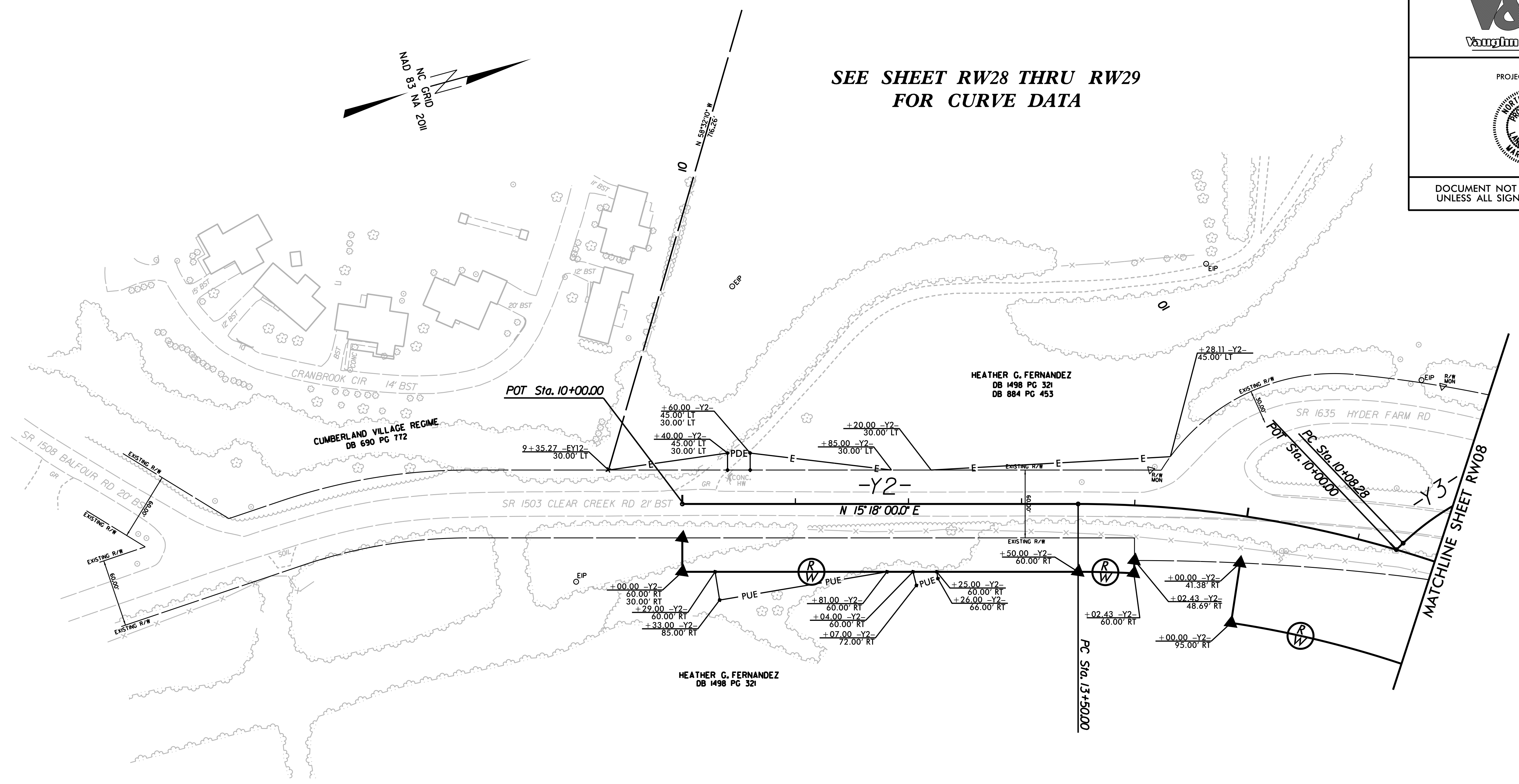
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

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PROJECT REFERENCE NO. I-4400BB	SHEET NO. RW25
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**SEE SHEET RW28 THRU RW29
FOR CURVE DATA**



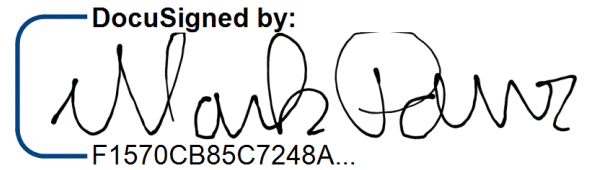
REVISIONS

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Professional Land Surveyor

L-4529
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Location and Surveys



PROJECT SURVEYOR



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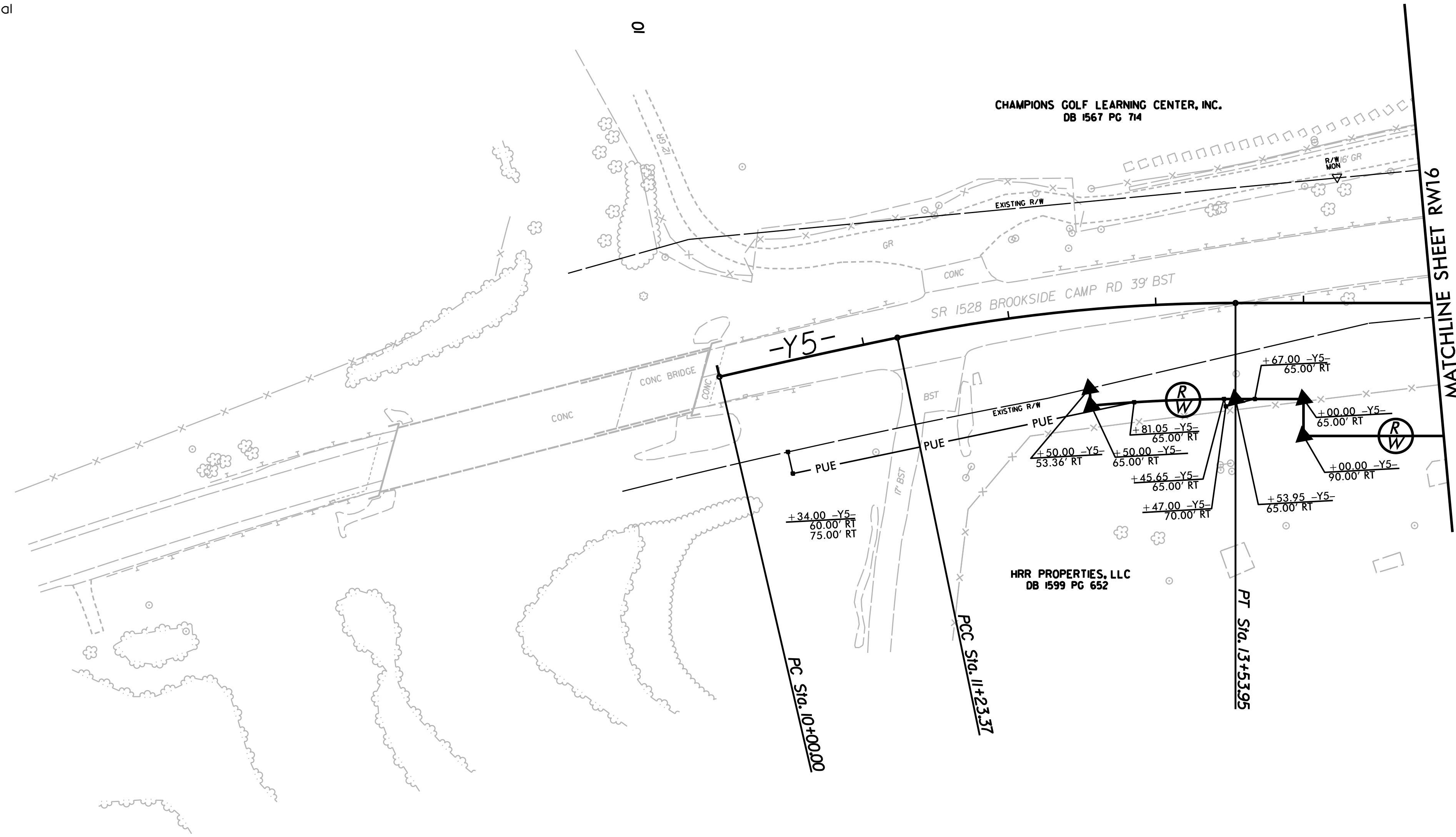
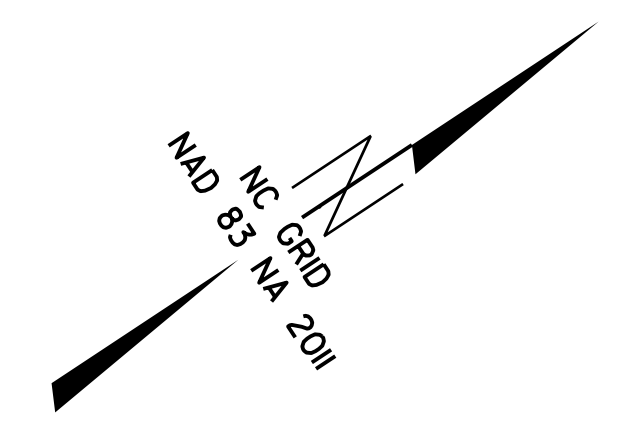
Witness my original signature, registration number and seal this 5th day of June, 2019.

DocuSigned by:

 F1570CB85C7248A
 Professional Land Surveyor

L-4529
PLS #

Seal



**SEE SHEET RW28 THRU RW29
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NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

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Location and Surveys



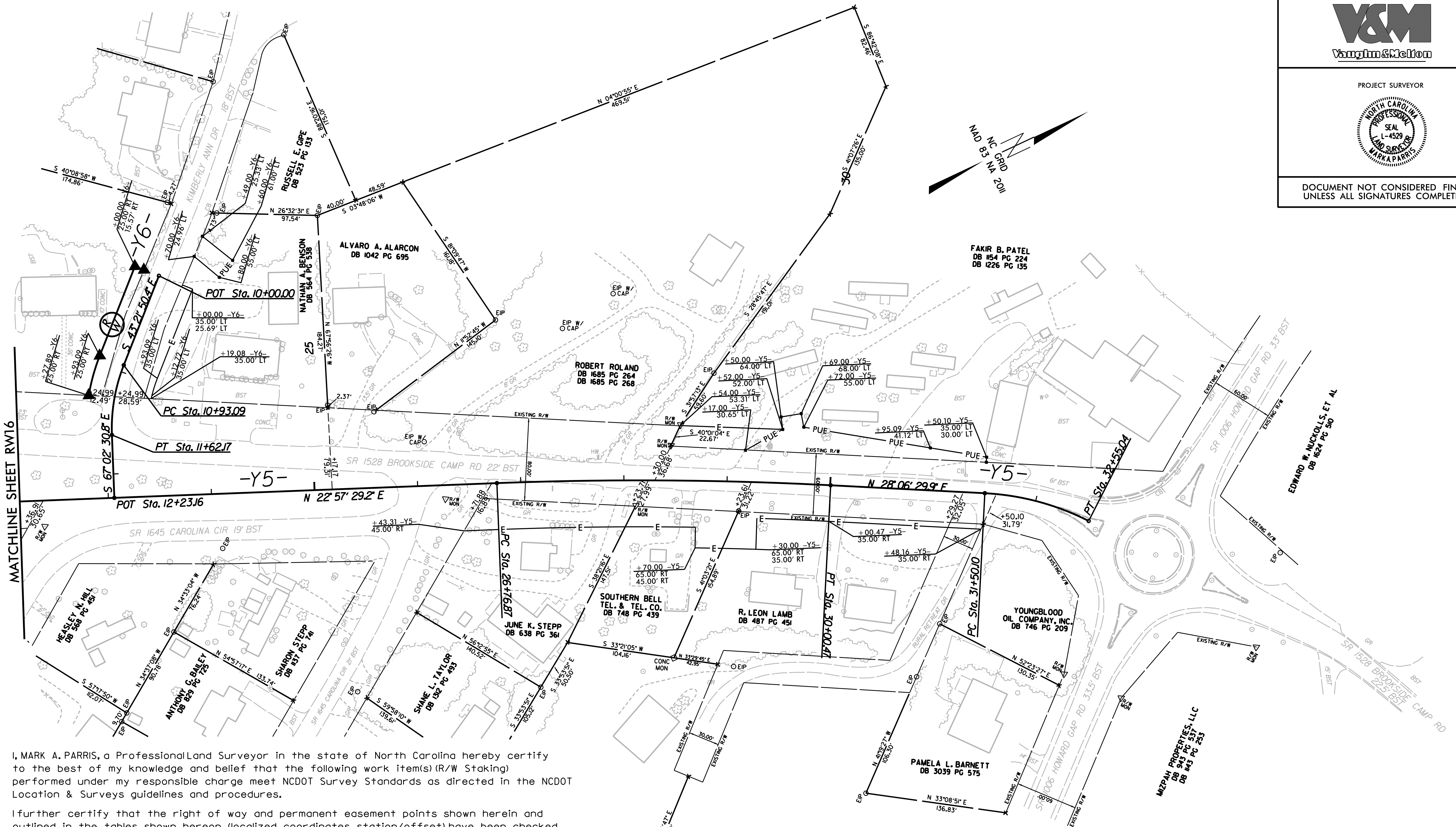
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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I, MARK A. PARRIS, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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DocuSigned by:

Professional Land Surveyor

L-4529
PLS *


Seal

SEE SHEET RW28 THRU RW29 FOR CURVE DATA

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PROPOSED ALIGNMENT CURVE DATA

PROJECT REFERENCE NO.	SHEET NO.
I-4400BB	RW28
Location and Surveys	
	

CURVE DATA

-L-								
<i>PI Sta 376+97.92</i> <i>Δ = 1° 40' 30.4"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 387+19.29</i> <i>Δ = 27° 38' 02.5" (LT)</i> <i>D = 1° 29' 20.3"</i> <i>L = 1,855.91'</i> <i>T = 946.37'</i> <i>R = 3,848.00'</i>	<i>PI Sta 397+03.83</i> <i>Δ = 1° 40' 30.4"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 403+50.94</i> <i>Δ = 1° 33' 52.2"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 418+57.99</i> <i>Δ = 38° 20' 00.6" (RT)</i> <i>D = 1° 23' 26.4"</i> <i>L = 2,756.47'</i> <i>T = 1,432.06'</i> <i>R = 4,120.00'</i>	<i>PI Sta 432+57.41</i> <i>Δ = 1° 33' 52.2"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 458+00.00</i> <i>Δ = 1° 41' 14.6"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 463+54.88</i> <i>Δ = 14° 19' 14.3" (LT)</i> <i>D = 1° 29' 59.6"</i> <i>L = 954.78'</i> <i>T = 479.89'</i> <i>R = 3,820.00'</i>	<i>PI Sta 469+04.78</i> <i>Δ = 1° 41' 14.6"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>

-L-								
<i>PI Sta 537+66.96</i> <i>Δ = 0° 54' 00.0"</i> <i>Ls = 180.00'</i> <i>LT = 120.00'</i> <i>ST = 60.00'</i>	<i>PI Sta 545+39.54</i> <i>Δ = 14° 10' 43.4" (LT)</i> <i>D = 1° 00' 00.0"</i> <i>L = 1,417.87'</i> <i>T = 712.58'</i> <i>R = 5,729.58'</i>	<i>PI Sta 553+04.84</i> <i>Δ = 0° 54' 00.0"</i> <i>Ls = 180.00'</i> <i>LT = 120.00'</i> <i>ST = 60.00'</i>	<i>PI Sta 565+08.76</i> <i>Δ = 1° 41' 14.6"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 576+19.44</i> <i>Δ = 30° 20' 20.6" (RT)</i> <i>D = 1° 29' 59.6"</i> <i>L = 2,022.75'</i> <i>T = 1,035.69'</i> <i>R = 3,820.00'</i>	<i>PI Sta 586+81.51</i> <i>Δ = 1° 41' 14.6"</i> <i>Ls = 225.00'</i> <i>LT = 150.01'</i> <i>ST = 75.01'</i>	<i>PI Sta 603+75.38</i> <i>Δ = 0° 54' 07.7"</i> <i>Ls = 180.00'</i> <i>LT = 120.00'</i> <i>ST = 60.00'</i>	<i>PI Sta 627+34.48</i> <i>Δ = 43° 49' 19.4" (LT)</i> <i>D = 1° 00' 08.6"</i> <i>L = 4,371.82'</i> <i>T = 2,299.10'</i> <i>R = 5,716.00'</i>	<i>PI Sta 648+67.20</i> <i>Δ = 0° 54' 07.7"</i> <i>Ls = 180.00'</i> <i>LT = 120.00'</i> <i>ST = 60.00'</i>

-WEIGH A-	
<i>PI Sta 12+49.28</i> <i>Δ = 2° 25' 51.0" (RT)</i> <i>D = 1° 29' 59.6"</i> <i>L = 162.07'</i> <i>T = 81.05'</i> <i>R = 3,820.00'</i>	<i>PI Sta 16+62.88</i> <i>Δ = 7° 05' 58.2" (LT)</i> <i>D = 2° 59' 59.2"</i> <i>L = 236.67'</i> <i>T = 118.49'</i> <i>R = 1,910.00'</i>

-WEIGH B-		
<i>PI Sta 11+29.29</i> <i>Δ = 5° 17' 14.7" (LT)</i> <i>D = 2° 02' 46.6"</i> <i>L = 258.39'</i> <i>T = 129.29'</i> <i>R = 2,800.00'</i>	<i>PI Sta 13+87.46</i> <i>Δ = 10° 17' 35.1" (LT)</i> <i>D = 3° 59' 53.9"</i> <i>L = 257.44'</i> <i>T = 129.07'</i> <i>R = 1,433.00'</i>	<i>PI Sta 16+18.58</i> <i>Δ = 12° 20' 47.4" (RT)</i> <i>D = 6° 01' 52.1"</i> <i>L = 204.71'</i> <i>T = 102.75'</i> <i>R = 950.00'</i>

-WEIGH C-	
<i>PI Sta 10+90.18</i> <i>Δ = 3° 34' 29.2" (RT)</i> <i>D = 1° 58' 57.2"</i> <i>L = 180.31'</i> <i>T = 90.18'</i> <i>R = 2,890.00'</i>	<i>PI Sta 15+44.97</i> <i>Δ = 8° 30' 52.0" (LT)</i> <i>D = 2° 59' 59.2"</i> <i>L = 283.84'</i> <i>T = 142.18'</i> <i>R = 1,910.00'</i>

-WEIGH D-	
<i>PI Sta 16+45.02</i> <i>Δ = 7° 18' 40.6" (RT)</i> <i>D = 2° 59' 59.2"</i> <i>L = 243.73'</i> <i>T = 122.03'</i> <i>R = 1,910.00'</i>	<i>PI Sta 11+96.52</i> <i>Δ = 8° 59' 22.1" (LT)</i> <i>D = 2° 17' 30.6"</i> <i>L = 392.24'</i> <i>T = 196.52'</i> <i>R = 2,500.00'</i>


NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

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PROPOSED ALIGNMENT CURVE DATA

PROJECT REFERENCE NO.	SHEET NO.
I-4400BB	RW29
Location and Surveys	
	

CURVE DATA

-Y1-RPA-			
<i>PI Sta 11+17.39</i> $\Delta = 1^{\circ} 26' 50.1"$ $\Theta_s = 7^{\circ} 08' 38.3"$ $L_s = 192.00'$ $LT = 117.39'$ $ST = 74.94'$	<i>PI Sta 14+42.92</i> $\Delta = 36^{\circ} 05' 55.4" (RT)$ $D = 7^{\circ} 26' 27.6"$ $L = 485.13'$ $T = 250.92'$ $R = 770.00'$	<i>PI Sta 17+41.23</i> $\Theta_s = 7^{\circ} 08' 36.1"$ $L_s = 192.00'$ $LT = 128.10'$ $ST = 64.09'$	<i>PI Sta 22+72.97</i> $\Delta = 48^{\circ} 50' 14.2" (LT)$ $D = 22^{\circ} 55' 05.9"$ $L = 213.09'$ $T = 113.50'$ $R = 250.00'$

-Y1-RPD-					
<i>PI Sta 10+32.00</i> $\Theta_s = 0^{\circ} 42' 20.6"$ $L_s = 96.00'$ $LT = 64.00'$ $ST = 32.00'$	<i>PI Sta 11+28.10</i> $\Theta_s = 7^{\circ} 08' 36.1"$ $L_s = 192.00'$ $LT = 128.10'$ $ST = 64.09'$	<i>PI Sta 13+52.04</i> $\Theta_s = 4^{\circ} 32' 17.8"$ $L_s = 192.00'$ $LT = 128.04'$ $ST = 64.04'$	<i>PI Sta 16+16.15</i> $\Delta = 18^{\circ} 45' 16.7" (LT)$ $D = 4^{\circ} 43' 38.5"$ $L = 396.72'$ $T = 200.15'$ $R = 1,212.00'$	<i>PI Sta 18+76.76</i> $\Theta_s = 4^{\circ} 32' 17.8"$ $L_s = 192.00'$ $LT = 128.04'$ $ST = 64.04'$	<i>PI Sta 22+83.97</i> $\Delta = 32^{\circ} 45' 09.5" (RT)$ $D = 14^{\circ} 19' 26.2"$ $L = 228.66'$ $T = 117.55'$ $R = 400.00'$

-Y2-	
<i>PI Sta 15+46.41</i> $\Delta = 22^{\circ} 13' 27.4" (RT)$ $D = 5^{\circ} 43' 46.5"$ $L = 387.89'$ $T = 196.41'$ $R = 1,000.00'$	<i>PI Sta 27+44.34</i> $\Delta = 66^{\circ} 14' 27.4" (LT)$ $D = 13^{\circ} 38' 30.7"$ $L = 485.57'$ $T = 274.01'$ $R = 420.00'$

-Y3-	
<i>PI Sta 11+23.54</i> $\Delta = 53^{\circ} 02' 03.2" (RT)$ $D = 24^{\circ} 48' 12.1"$ $L = 213.82'$ $T = 115.26'$ $R = 231.00'$	<i>PI Sta 15+45.35</i> $\Delta = 46^{\circ} 09' 00.5" (LT)$ $D = 16^{\circ} 00' 00.0"$ $L = 288.44'$ $T = 152.56'$ $R = 358.10'$

-Y4-
<i>PI Sta 12+05.90</i> $\Delta = 24^{\circ} 23' 10.1" (LT)$ $D = 16^{\circ} 22' 12.8"$ $L = 148.97'$ $T = 75.63'$ $R = 350.00'$

-Y5-				
<i>PI Sta 10+61.69</i> $\Delta = 1^{\circ} 24' 49.2" (RT)$ $D = 1^{\circ} 08' 45.3"$ $L = 123.37'$ $T = 61.69'$ $R = 5,000.00'$	<i>PI Sta 12+39.06</i> $\Delta = 11^{\circ} 41' 30.3" (RT)$ $D = 5^{\circ} 04' 13.5"$ $L = 230.59'$ $T = 115.70'$ $R = 1,130.00'$	<i>PI Sta 19+26.36</i> $\Delta = 10^{\circ} 30' 27.0" (LT)$ $D = 2^{\circ} 36' 15.7"$ $L = 403.46'$ $T = 202.30'$ $R = 2,200.00'$	<i>PI Sta 28+38.78</i> $\Delta = 5^{\circ} 09' 00.7" (RT)$ $D = 1^{\circ} 35' 29.6"$ $L = 323.60'$ $T = 161.91'$ $R = 3,600.00'$	<i>PI Sta 32+03.35</i> $\Delta = 24^{\circ} 02' 58.8" (RT)$ $D = 22^{\circ} 55' 05.9"$ $L = 104.94'$ $T = 53.25'$ $R = 250.00'$

-Y5A-		
<i>PI Sta 12+22.09</i> $\Delta = 127^{\circ} 00' 06.6" (LT)$ $D = 159^{\circ} 09' 17.8"$ $L = 79.80'$ $T = 72.21'$ $R = 36.00'$	<i>PI Sta 13+01.89</i> $\Delta = 127^{\circ} 00' 06.6" (LT)$ $D = 159^{\circ} 09' 17.8"$ $L = 79.80'$ $T = 72.21'$ $R = 36.00'$	<i>PI Sta 13+57.13</i> $\Delta = 74^{\circ} 00' 13.2" (RT)$ $D = 90^{\circ} 37' 28.4"$ $L = 81.66'$ $T = 47.65'$ $R = 63.22'$

-Y6-
<i>PI Sta 11+28.13</i> $\Delta = 23^{\circ} 40' 40.4" (LT)$ $D = 34^{\circ} 16' 31.2"$ $L = 69.08'$ $T = 35.04'$ $R = 167.16'$

-Y7-	
<i>PI Sta 10+51.86</i> $\Delta = 12^{\circ} 01' 52.7" (LT)$ $D = 11^{\circ} 38' 33.1"$ $L = 103.34'$ $T = 51.86'$ $R = 492.13'$	<i>PI Sta 22+74.01</i> $\Delta = 89^{\circ} 14' 12.2" (RT)$ $D = 6^{\circ} 52' 41.7"$ $L = 1,297.38'$ $T = 821.98'$ $R = 833.00'$

-Y8-
<i>PI Sta 10+53.81</i> $\Delta = 61^{\circ} 54' 55.5" (LT)$ $D = 70^{\circ} 00' 00.0"$ $L = 88.45'$ $T = 49.10'$ $R = 81.85'$

-Y9-	
<i>PI Sta 10+42.91</i> $\Delta = 12^{\circ} 10' 57.9" (RT)$ $D = 14^{\circ} 15' 00.0"$ $L = 85.49'$ $T = 42.91'$ $R = 402.08'$	<i>PI Sta 12+30.45</i> $\Delta = 54^{\circ} 49' 31.2" (RT)$ $D = 20^{\circ} 30' 00.0"$ $L = 267.44'$ $T = 144.95'$ $R = 279.49'$

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REVISIONS

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