

**Dewberry**

PROJECT REFERENCE NO. R-5737 SHEET NO. 7

ROADWAY DESIGN ENGINEER: [Signature]

HYDRAULICS ENGINEER: [Signature]

DATE: 8/27/2021

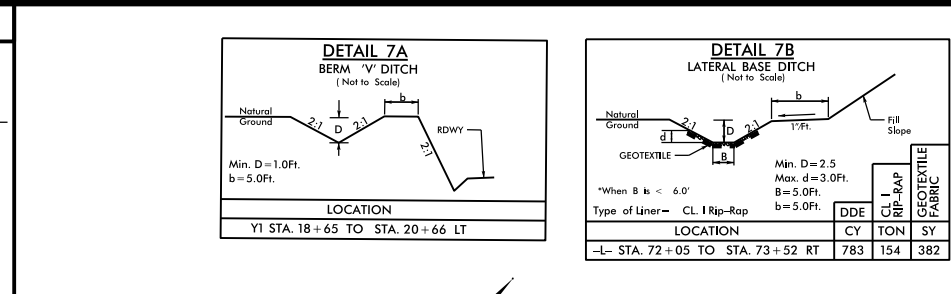
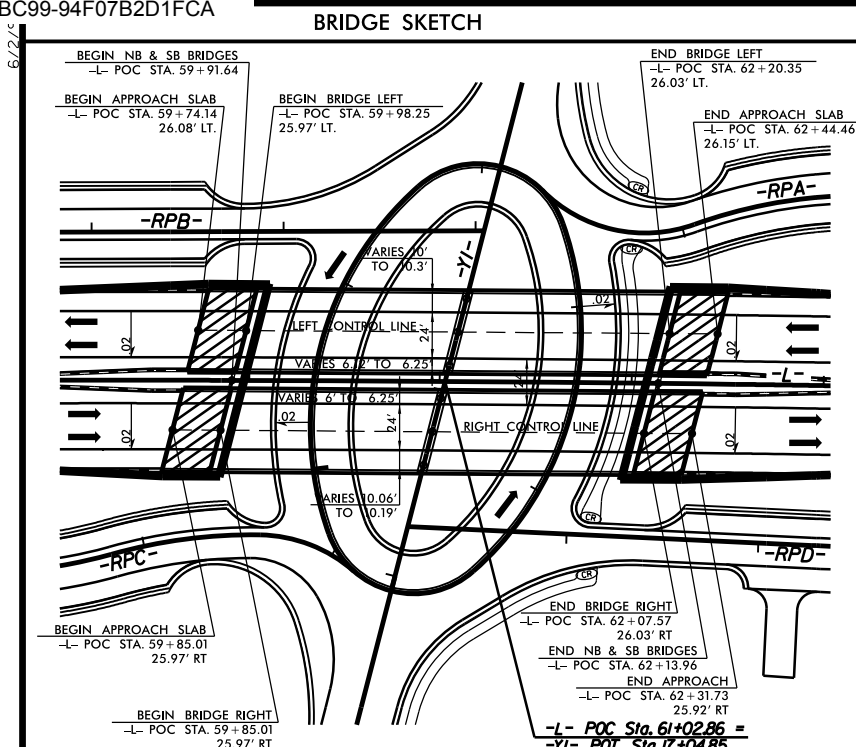
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**TRAFFIC DATA**

B	193	214	29-70'	1-85 BUS
A	20	22	163	182

OLD GREENSBORO RD. SR. 193

VPD IN 100s



**CURVE DATA FOR -Y1-**

PI Sta 20+08.47 Δ = 18° 05' 03" (RT) D = 11' 27' 33.0" L = 157.96' T = 79.65' R = 500.00' Se = NC	PI Sta 25+62.42 Δ = 2° 44' 06" (LT) D = 1' 00' 18.7" L = 272.15' T = 136.07' R = 5700.00' Se = NC	PI Sta 17+40.88 Δ = 23° 00' 59.9" (LT) D = 4' 24' 26.5" L = 522.23' T = 264.68' R = 1300.00' Se = EXIST.	PI Sta 23+67.78 Δ = 6° 24' 03" (RT) D = 1' 38' 13.3" L = 390.31' T = 195.71' R = 3500.00' Se = EXIST.	PI Sta 27+17.03 Δ = 3° 49' 10.7" (LT) D = 1' 54' 35.5" L = 200.00' T = 100.00' R = 3000.00' Se = EXIST.
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**CURVE DATA FOR -RPA-**

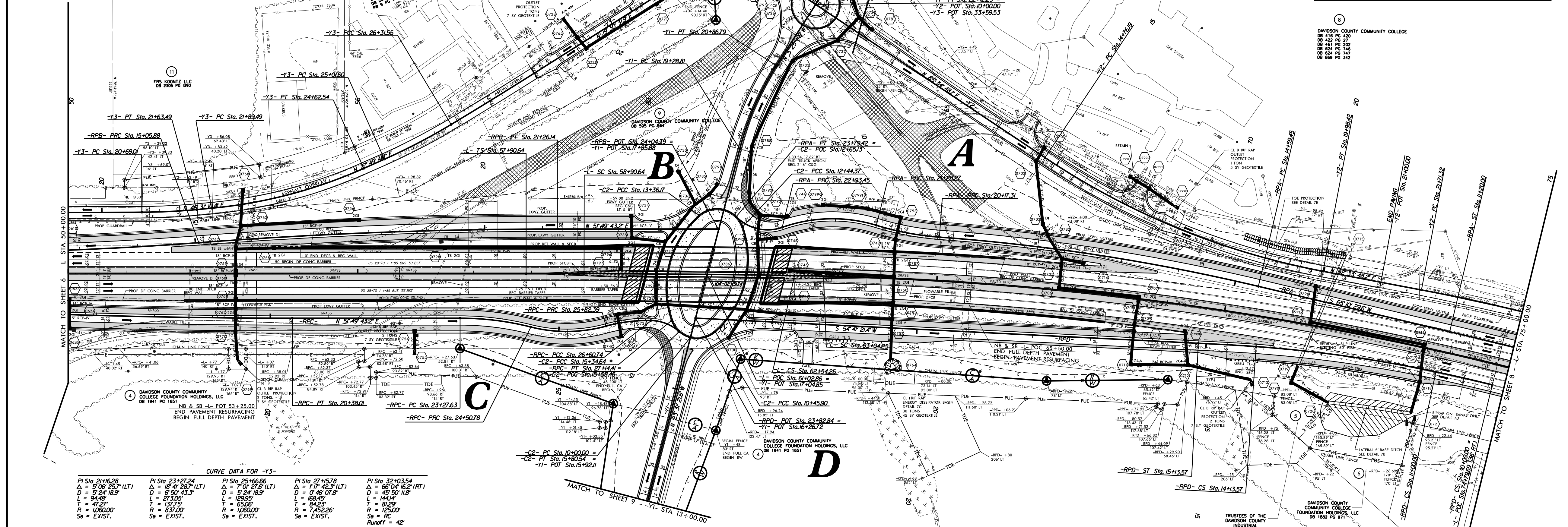
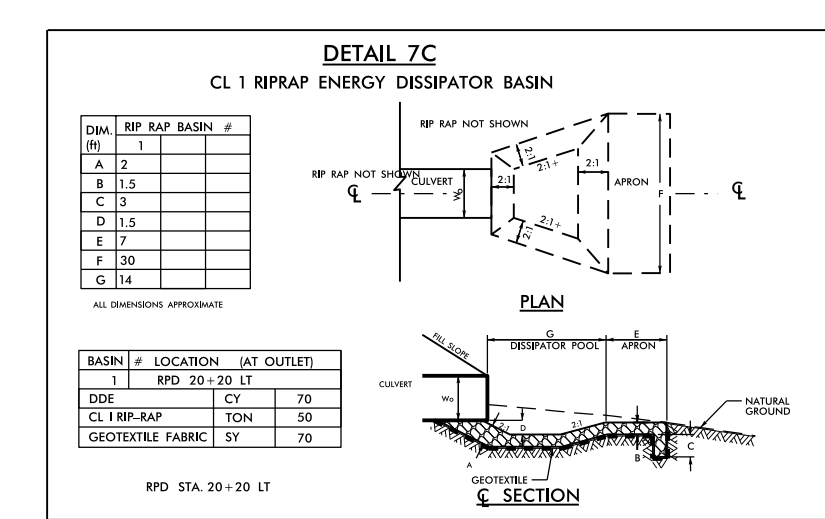
PI Sta 10+40.00 Δ = 0° 37' 48.3" D = 12' 00" L = 80.00' T = 40.00' Se = 0.00	PI Sta 17+38.97 Δ = 9° 07' 55.2" (LT) D = 7' 39' 13.5" L = 57.78' T = 27.92' R = 496.00' Se = 0.02	PI Sta 20+73.02 Δ = 12° 49' 05.3" (RT) D = 25' 07' 05.2" L = 103.96' T = 55.71' R = 239.00' Se = 0.02	PI Sta 22+13.78 Δ = 35° 32' 25.9" (LT) D = 11' 33' 05.2" L = 165.81' T = 85.51' R = 239.00' Se = 0.02	PI Sta 23+14.69 Δ = 64° 48' 32.1" (RT) D = 75' 23' 21.1" L = 85.97' T = 48.24' R = 76.00' Se = 0.02
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**CURVE DATA FOR -RPB-**

PI Sta 10+66.57 Δ = 0° 28' 41.7" Ls = 100.00' LT = 66.67' ST = 33.33'	PI Sta 13+03.02 Δ = 5° 52' 56.3" (LT) D = 0° 57' 23.5" L = 405.88' T = 203.29' R = 5990.00' Se = 0.02	PI Sta 18+16.16 Δ = 4° 27' 38.0" (RT) D = 0° 42' 10.9" L = 620.26' T = 310.28' R = 8150.00' Se = 0.02
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**CURVE DATA FOR -C3-**

PI Sta 10+00.00 Δ = 360° 00' 00.0" (LT) D = 136° 25' 06.7" L = 263.90' T = 0.00' R = 42.00'
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SEE SHEET 14-16 FOR -L- PROFILE  
SEE SHEET 18 FOR -RPA- PROFILE  
SEE SHEET 19 FOR -RPB- PROFILE  
SEE SHEET 20 FOR -RPC- PROFILE  
SEE SHEET 21 FOR -RPD- PROFILE  
SEE SHEET 22 FOR -C2- PROFILE  
SEE SHEET 22 FOR -C3- PROFILE  
SEE SHEET 23 FOR -Y1- PROFILE  
SEE SHEET 24 FOR -Y2- PROFILE  
SEE SHEET 25 FOR -Y3- PROFILE  
SEE SHEET 26 FOR -Y4- PROFILE

FOR ROUNDABOUT C2 DETAILS: SEE SHEETS 2B-2 & 2B-5 FOR FINAL PAVEMENT PLAN ELEVATIONS, SUPERELEVATION, AND CONC. ISLAND DETAILS WITH STATION & OFFSETS.

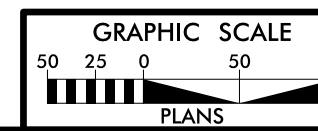
FOR ROUNDABOUT C3 DETAILS: SEE SHEET 2B-3 & 2B-6 FOR FINAL PAVEMENT PLAN ELEVATIONS, SUPERELEVATION, AND CONC. ISLAND DETAILS WITH STATION & OFFSETS.

**CURVE DATA FOR -C2-**

PI Sta 10+42.97 Δ = 3° 30' 00.0" (LT) D = 12° 54' 21.3" L = 45.90' T = 22.95' R = 47.00'	PI Sta 11+58.74 Δ = 65° 15' 34.6" (LT) D = 34' 18' 31.9" L = 186.47' T = 93.24' R = 167.00'	PI Sta 13+13.93 Δ = 10° 54' 25.3" (LT) D = 12° 54' 21.3" L = 91.80' T = 45.90' R = 47.00'	PI Sta 14+49.01 Δ = 59° 17' 12.7" (LT) D = 34' 18' 31.9" L = 186.47' T = 93.24' R = 167.00'	PI Sta 15+59.60 Δ = 0° 17' 00.0" (RT) D = 12° 54' 21.3" L = 45.90' T = 22.95' R = 47.00'
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**CURVE DATA FOR -RPA-**

PI Sta 16+71.60 Δ = 3° 30' 00.0" (LT) D = 0° 28' 38.9" L = 73.50' T = 36.63' Se = 0.02	PI Sta 23+89.52 Δ = 14° 13' 34.1" (RT) D = 12° 54' 21.3" L = 123.75' T = 61.88' R = 496.00' Se = 0.02	PI Sta 25+18.10 Δ = 29° 41' 16.8" (LT) D = 22° 33' 26.6" L = 123.75' T = 61.88' Se = 0.02	PI Sta 26+18.84 Δ = 16° 33' 54.5" (RT) D = 21° 08' 32.5" L = 131.61' T = 65.81' Se = 0.02	PI Sta 26+88.75 Δ = 40° 27' 22.5" (RT) D = 19° 23' 21.1" L = 53.66' T = 26.83' R = 280.00' Se = 0.02	PI Sta 58+57.31 Δ = 0° 08' 52.5" Ls = 100.00' LT = 66.67' ST = 33.33'	PI Sta 60+72.45 Δ = 0° 17' 00.0" (RT) D = 0° 17' 45.1" L = 363.87' T = 181.94' R = 25000.00' Se = 0.02 Runoff = 100	PI Sta 62+84.62 Δ = 0° 03' 25.3" Gs = 0° 15' 51.4" Ls = 50.00' LT = 30.36' ST = 15.18'	PI Sta 70+27.17 Δ = 15° 12' 24.7" (RT) D = 1° 03' 25.6" L = 1438.52' T = 723.57' R = 5420.00' Se = 0.03 Runoff = 150	PI Sta 77+82.77 Δ = 0° 18' 03.4" Gs = 0° 14' 44.0" Ls = 100.00' LT = 66.67' ST = 33.33'	PI Sta 10+56.69 Δ = 0° 31' 55.5" Gs = 0° 14' 44.0" Ls = 100.00' LT = 66.67' ST = 33.33'	PI Sta 12+57.03 Δ = 7° 48' 41.3" (LT) D = 2° 29' 28.0" L = 313.57' T = 157.03' R = 2300.00' Se = 0.04	PI Sta 14+46.30 Δ = 1° 14' 44.0" Ls = 100.00' LT = 66.67' ST = 33.33'
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**LEGEND**

- 5' MONOLITHIC CONCRETE ISLAND
- 7' CONCRETE TRUCK APRON w/RUMBLE STRIPS
- 7' CONCRETE TRUCK APRON
- 3' CONCRETE ISLAND COVER
- 4" CONCRETE SIDEWALK

LOCATION: CONVERT AT-GRADE INTERSECTION OF OLD GREENSBORO RD. (SR 193) AND I-85 BUS. US 29-70 TO INTERCHANGE

DESIGNED BY: WET 8/26/2021

CHECKED BY: DJM DATE: 8/26/2021