U-4751 & R-3300 NEW HANOVER & PENDER COUNTIES

STATE PROJECT 40191.1.2

EXTENSION OF SR 1409 TO THE WILMINGTON BYPASS AND CONSTRUCTION OF HAMPSTEAD BYPASS FROM WILMINGTON BYPASS TO US 17 NORTH OF HAMPSTEAD

ALTERNATE EH

U–4751 & R–3300 NEW HANOVER & PENDER COUNTIES

STATE PROJECT 40191.1.2

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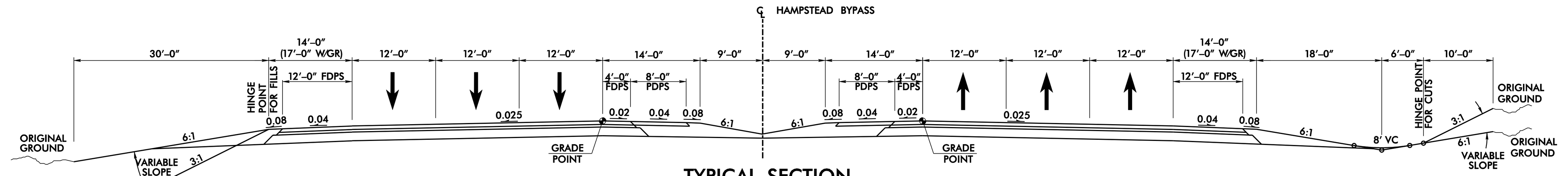
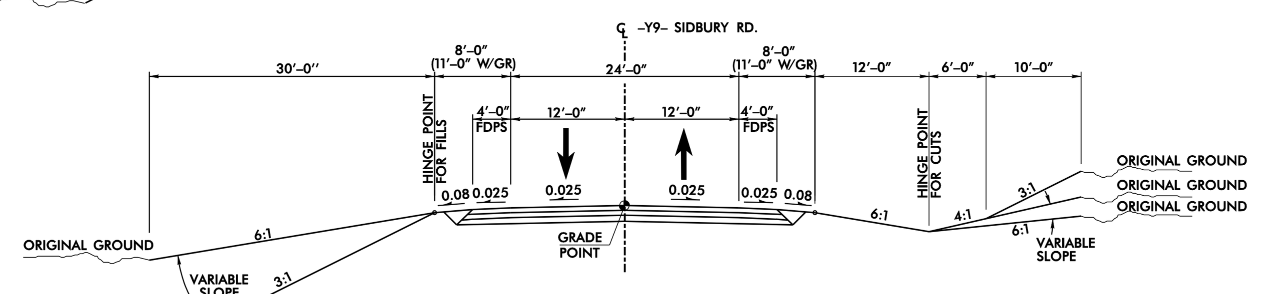


TYPICAL SECTION

HAMPSTEAD BYPASS (-EH-)



TYPICAL SECTION

SIDBURY RD. (-Y9-)

-Y9DGDET-

PI Sta 18+45.98	PI Sta 26+15.51	PI Sta 39+43.40	PI Sta 46+35.67
Δ = 7° 27' 30.9" (LT)	Δ = 8° 00' 33.3" (RT)	Δ = 6° 40' 56.1" (RT)	Δ = 7° 13' 58.5" (LT)
D = 1° 00' 18.7"	D = 1° 00' 18.7"	D = 1° 00' 18.7"	D = 1° 00' 18.7"
L = 742.01'	L = 796.79'	L = 664.78'	L = 719.56'
T = 371.53'	T = 399.05'	T = 332.77'	T = 360.26'
R = 5,700.00'	R = 5,700.00'	R = 5,700.00'	R = 5,700.00'
SE = 02	SE = 02	SE = 02	SE = 02

-EH-

PI Sta 269+47.39	PIs Sta 298+73.70	PI Sta 320+05.42	PIs Sta 339+43.32	PIs Sta 350+97.11	PI Sta 367+06.28
Δ = 6° 00' 27.9" (RT)	Θs = 1° 05' 13.9"	Δ = 42° 47' 44.3" (LT)	Θs = 1° 05' 13.9"	Θs = 0° 48' 08.9"	Δ = 24° 22' 52.7" (RT)
D = 0° 23' 23.2"	Ls = 200.00'	D = 1° 05' 13.9"	Ls = 200.00'	Ls = 200.00'	D = 0° 48' 08.9"
L = 1,541.37'	LT = 133.34'	L = 3,936.29	LT = 133.34'	LT = 133.33'	L = 3,038.31
T = 771.39'	ST = 66.67'	T = 2,065.06'	ST = 66.67'	ST = 66.67'	T = 1,542.50'
R = 14,700.00'		R = 5,270.00'			R = 7,140.00'
SE = NC		SE = 04			SE = 03

PIs Sta 382+68.76	PI Sta 398+65.21	PIs Sta 415+67.20	PI Sta 423+95.17	PIs Sta 432+12.67
Θs = 0° 48' 08.9"	Δ = 8° 29' 51.4" (LT)	Θs = 1° 05' 13.9"	Δ = 16° 26' 24.0" (RT)	Θs = 1° 05' 13.9"
Ls = 200.00'	D = 0° 23' 23.2"	Ls = 200.00'	D = 1° 05' 13.9"	Ls = 200.00'
LT = 133.33'	L = 2,180.17'	LT = 133.34'	L = 1,512.13	LT = 133.34'
ST = 66.67'	T = 1,092.09'	ST = 66.67'	T = 761.30'	ST = 66.67'
	R = 14,700.00'		R = 5,270.00'	
	SE = NC		SE = 04	

LEGEND

- FILL
- TRANSITION
- CUT
- CORRIDOR
- STREAMS
- PONDS
- WETLAND BOUNDARY
- STRUCTURES
- CONSTRUCTION EASEMENT
- CONTROL OF ACCESS
- LIMITED CONTROL OF ACCESS
- PARTIAL CONTROL OF ACCESS
- RIGHT–OF–WAY
- TRAFFIC SIGNAL

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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LEGEND

- FILL
- TRANSITION
- CUT
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- PONDS
- WETLAND BOUNDARY
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TYPICAL SECTION

-Y9- DETOUR

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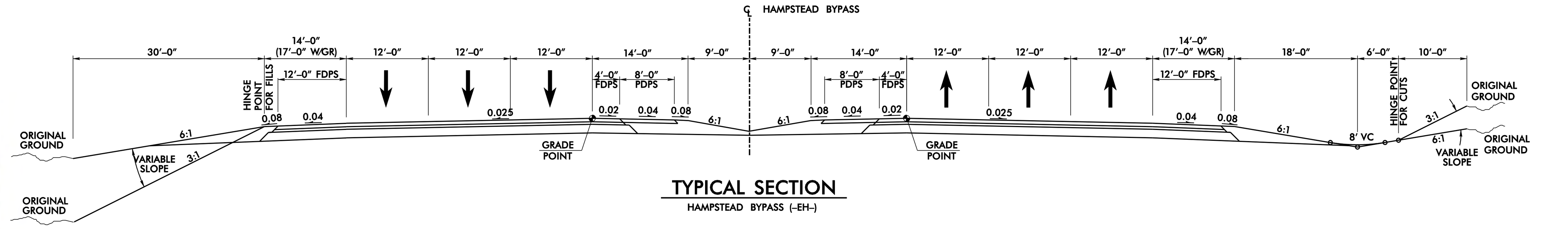
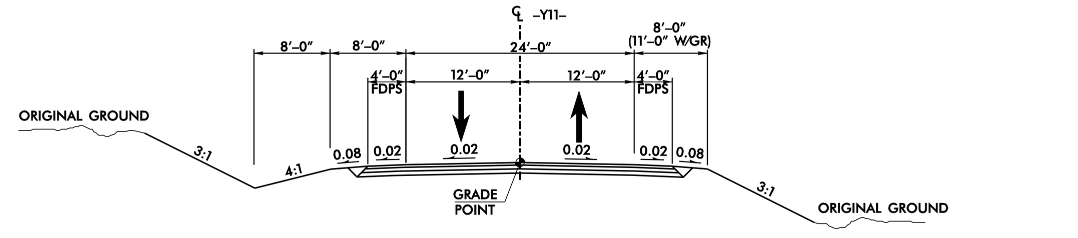
ALTERNATE EH



TYPICAL SECTION
HAMPSTEAD BYPASS (-EH-)



TYPICAL SECTION
HARRISON CREEK RD. (-Y11-)

-EH-

PIs Sta 443+14.13	PI Sta 454+25.98	PIs Sta 465+11.06	PIs Sta 530+95.82	PI Sta 544+17.70	PIs Sta 556+39.56	PIs Sta 561+85.98	PI Sta 582+60.65
Θs = 1° 05′ 13.9″	Δ = 22° 26′ 07.7″ (RT)	Θs = 1° 05′ 13.9″	Θs = 2° 16′ 29.9″	Δ = 39° 49′ 58.7″ (RT)	Θs = 2° 16′ 29.9″	Θs = 2° 16′ 29.9″	Δ = 60° 32′ 49.3″ (LT)
Ls = 200.00′	D = 1° 05′ 13.9″	Ls = 200.00′	Ls = 270.00′	D = 1° 41′ 06.6″	Ls = 270.00′	Ls = 270.00′	D = 1° 41′ 06.6″
LT = 133.34′	L = 2,063.59′	LT = 133.34′	LT = 180.01′	L = 2,363.74′	LT = 180.01′	LT = 180.01′	L = 3,592.93′
ST = 66.67′	T = 1,045.18′	ST = 66.67′	ST = 90.01′	T = 1,231.89′	ST = 90.01′	ST = 90.01′	T = 1,984.69′
	R = 5,270.00′			R = 3,400.00′			R = 3,400.00′
	SE = 04			SE = 06			SE = 06

-Y11-

PI Sta 23+51.43
Δ = 54° 32′ 07.8″ (LT)
D = 3° 00′ 27.6″
L = 1,813.22′
T = 981.89′
R = 1,905.00′
SE = 04

LEGEND

- FILL
- TRANSITION
- CUT
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200′ 0 200′
SCALE

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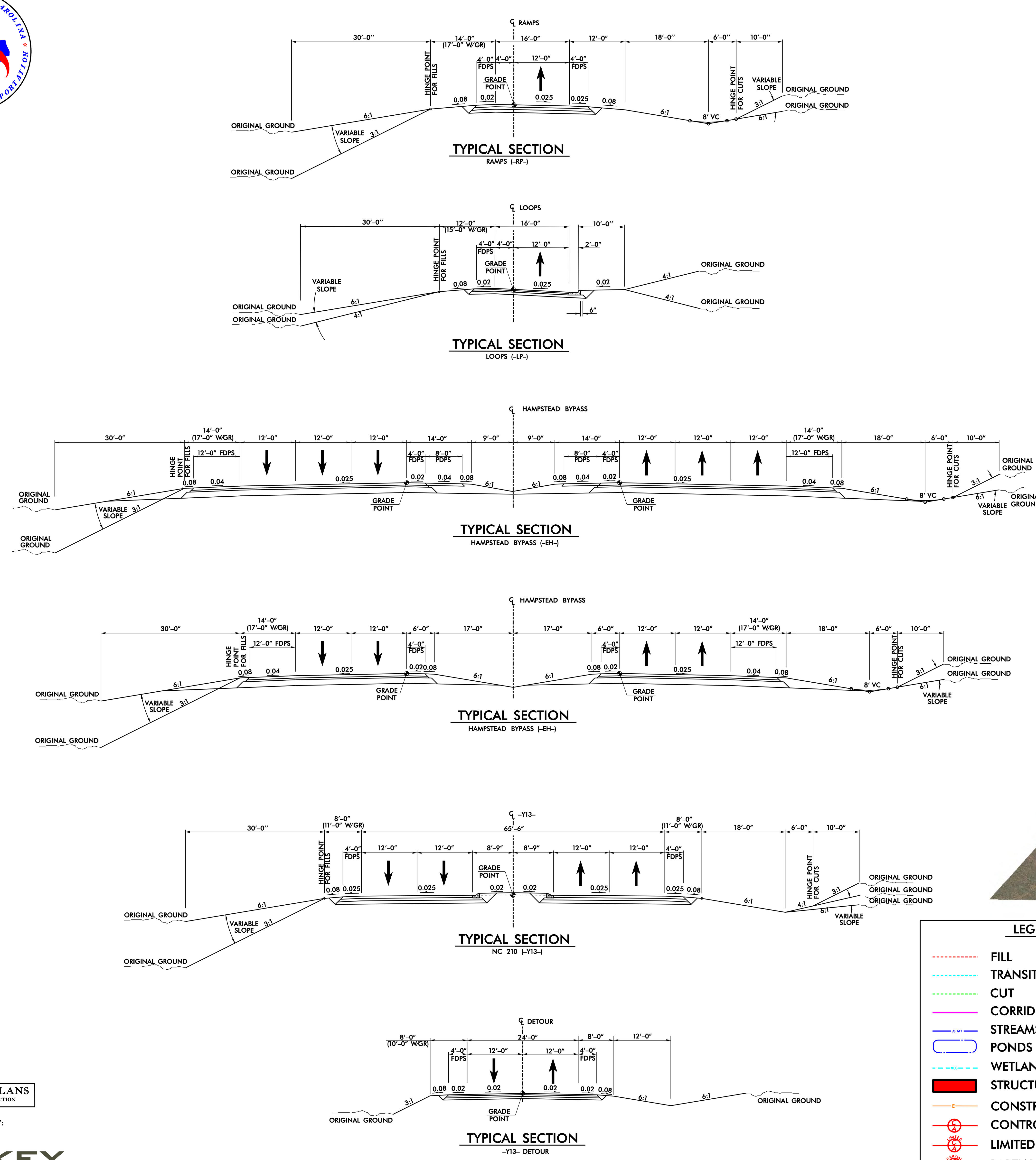


TYPICAL SECTION RAMPS (-RP-)

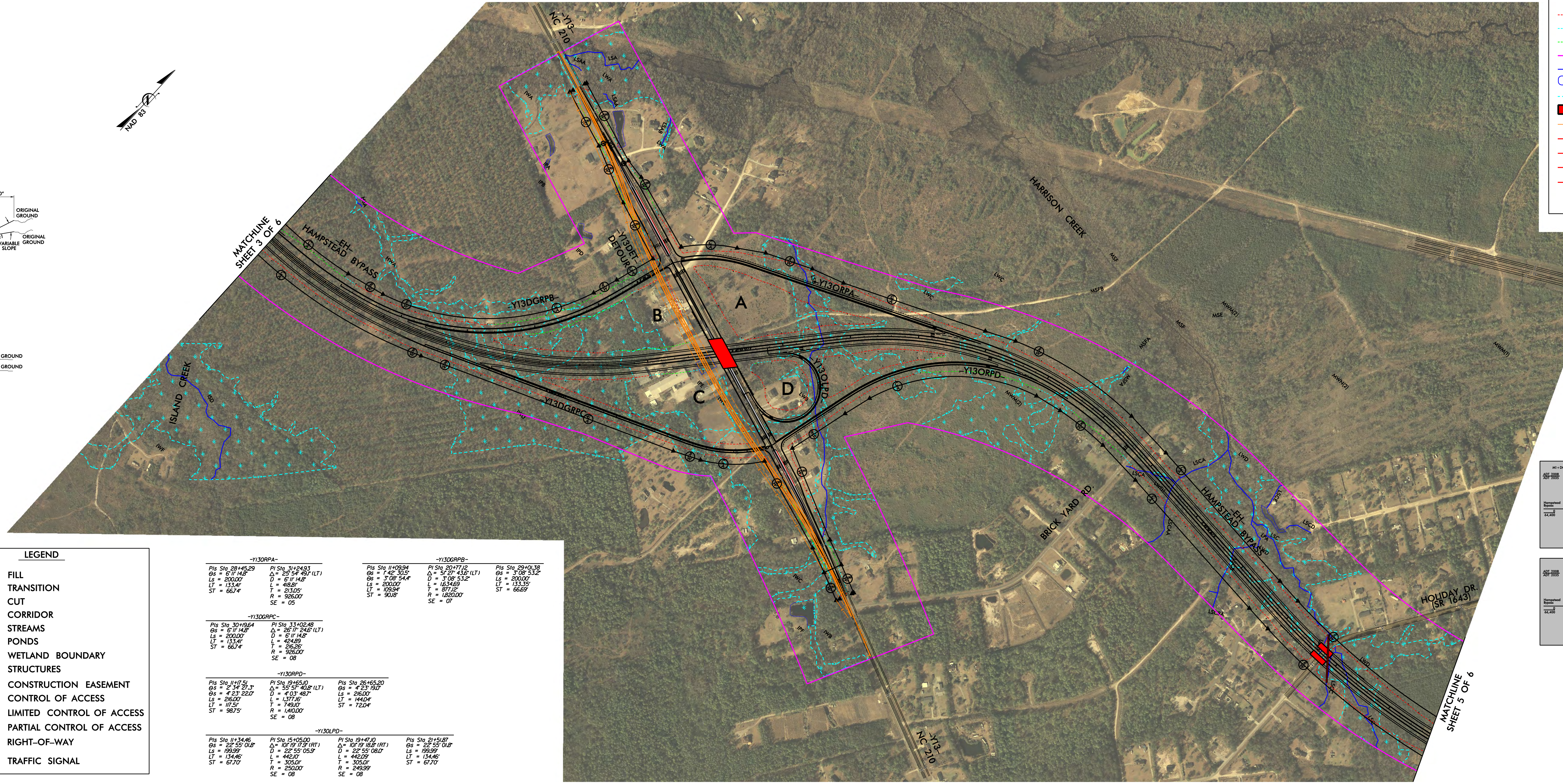
TYPICAL SECTION LOOPS (-LP-)

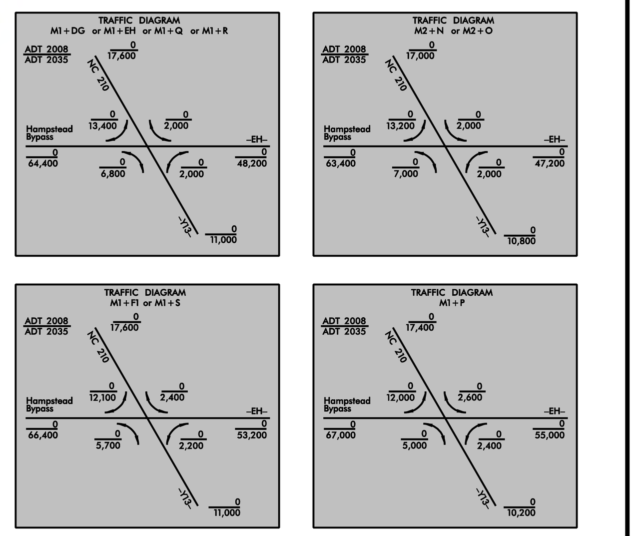
TYPICAL SECTION HAMPSTEAD BYPASS (-EH-)

TYPICAL SECTION HAMPSTEAD BYPASS (-EH-)

TYPICAL SECTION NC 210 (-Y13-)

TYPICAL SECTION -Y13- DETOUR





-EH-

PI Sta 582+60.65	PIs Sta 599+58.91	PIs Sta 616+61.87	PI Sta 628+41.97	PIs Sta 639+02.98	PIs Sta 651+04.36	PI Sta 659+16.21	PIs Sta 667+06.96
Δ = 60° 32' 49.3" (LT)	Θs = 2° 16' 29.9"	Θs = 4° 12' 34.1"	Δ = 46° 47' 53.5" (RT)	Θs = 4° 12' 34.1"	Θs = 2° 16' 29.9"	Δ = 23° 58' 23.6" (LT)	Θs = 2° 16' 29.9"
D = 1° 41' 06.6"	Ls = 270.00'	Ls = 360.00'	D = 2° 20' 19.0"	Ls = 360.00'	Ls = 270.00'	D = 1° 41' 06.6"	Ls = 270.00'
L = 3,592.93'	LT = 180.01'	LT = 240.07'	L = 2,001.12	LT = 240.07'	LT = 180.01'	L = 1,422.60	LT = 180.01'
T = 1,984.69'	ST = 90.01'	ST = 120.06'	T = 1,060.16'	ST = 120.06'	ST = 90.01'	T = 721.86'	ST = 90.01'
R = 3,400.00'			R = 2,450.00'			R = 3,400.00'	
SE = 06			SE = 08			SE = 06	

LEGEND

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-Y13ORPA-

PIs Sta 28+45.29	PI Sta 31+24.93
Θs = 6° 11' 14.8"	Δ = 25° 54' 49.1" (LT)
Ls = 200.00'	D = 6° 11' 14.8"
LT = 133.41'	L = 418.81'
ST = 66.74'	T = 213.05'
	R = 926.00'
	SE = 05

-Y13DGRPB-

PIs Sta 11+09.94	PI Sta 20+77.12	PIs Sta 29+01.38
Θs = 1° 42' 30.5"	Δ = 51° 27' 43.6" (LT)	Θs = 3° 08' 53.2"
Θs = 3° 08' 54.4"	D = 3° 08' 53.2"	Ls = 200.00'
Ls = 200.00'	L = 1,634.69	LT = 133.35'
LT = 109.94'	T = 877.12'	ST = 66.69'
ST = 90.18'	R = 1,820.00'	
	SE = 07	

-Y13DGRPC-

PIs Sta 30+19.64	PI Sta 33+02.48
Θs = 6° 11' 14.8"	Δ = 26° 17' 24.6" (LT)
Ls = 200.00'	D = 6° 11' 14.8"
LT = 133.41'	L = 424.89
ST = 66.74'	T = 216.26'
	R = 926.00'
	SE = 08

-Y13ORPD-

PIs Sta 11+17.51	PI Sta 19+65.10	PIs Sta 26+65.20
Θs = 2° 34' 27.3"	Δ = 55° 57' 40.8" (LT)	Θs = 4° 23' 19.0"
Θs = 4° 23' 22.0"	D = 4° 03' 48.7"	Ls = 216.00'
Ls = 216.00'	L = 1,377.16'	LT = 144.04'
LT = 117.51'	T = 749.10'	ST = 72.04'
ST = 98.75'	R = 1,410.00'	
	SE = 08	

-Y13OLPD-

PIs Sta 11+34.46	PI Sta 15+05.00	PI Sta 19+47.10	PIs Sta 21+51.87
Θs = 22° 55' 01.8"	Δ = 101° 19' 17.9" (RT)	Δ = 101° 19' 18.8" (RT)	Θs = 22° 55' 01.8"
Ls = 199.99'	D = 22° 55' 05.9"	D = 22° 55' 08.0"	Ls = 199.99'
LT = 134.46'	L = 442.10'	L = 442.09'	LT = 134.46'
ST = 67.70'	T = 305.01'	T = 305.01'	ST = 67.70'
	R = 250.00'	R = 249.99'	
	SE = 08	SE = 08	

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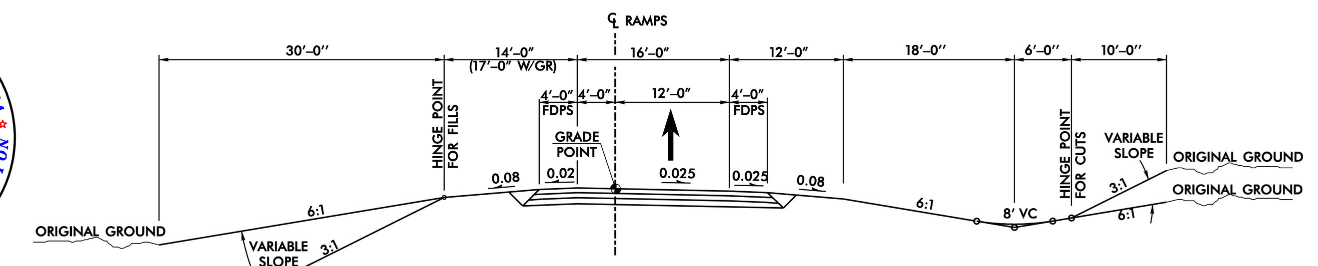
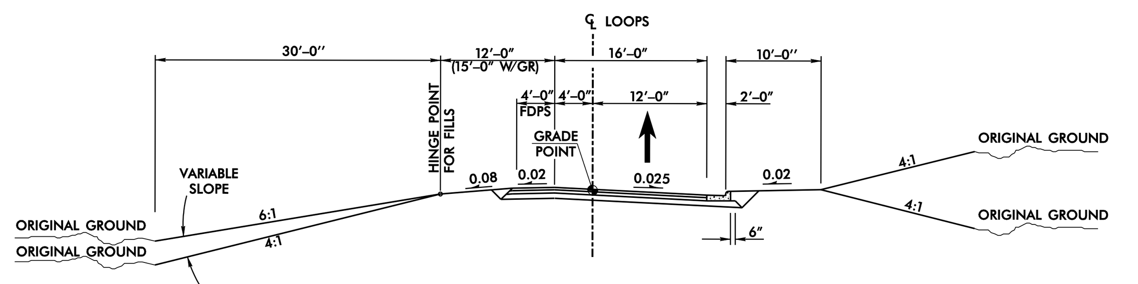
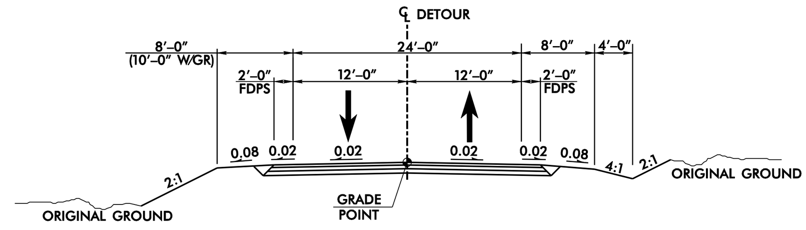


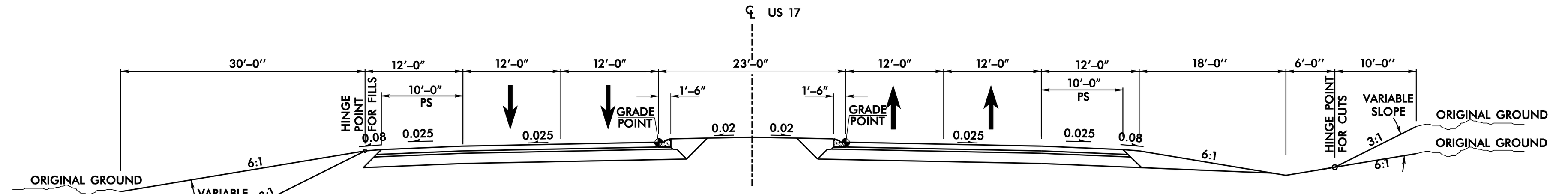
TYPICAL SECTION
RAMPS (-RP-)



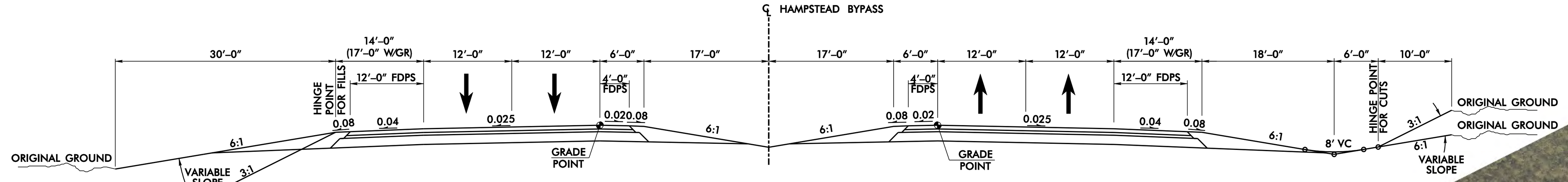
TYPICAL SECTION
LOOPS (-LP-)



TYPICAL SECTION
-Y15- DETOUR



TYPICAL SECTION
US 17 BUSINESS (-RCWY16-)



TYPICAL SECTION
HAMPSTEAD BYPASS (-EH-)

-Y15ODET-

PI Sta 79+24.47	PI Sta 110+62.75
Δ = 18° 05' 30.5" (RT)	Δ = 4° 23' 38.5" (RT)
D = 3° 47' 39.9"	D = 1° 00' 18.7"
T = 240.40'	T = 218.67'
T = 476.80'	T = 437.13'
R = 1,510.00'	R = 5,700.00'
SE = 05	SE = 02

-Y15-

PI Sta 79+84.88	PI Sta 94+35.53	PI Sta 119+35.36
Δ = 13° 51' 52.7" (RT)	Δ = 8° 37' 16.2" (RT)	Δ = 27° 59' 25.6" (LT)
D = 5° 24' 18.9"	D = 0° 59' 34.8"	D = 8° 11' 06.4"
T = 128.88'	T = 434.92'	T = 174.47'
T = 256.50'	T = 868.20'	T = 341.97'
R = 1,060.00'	R = 5,770.00'	R = 700.00'
SE = EXIST.	SE = 03	SE = EXIST.

-EH-

PI Sta 700+35.27	PIs Sta 705+76.83	PIs Sta 715+77.08	PI Sta 725+81.62	PIs Sta 735+55.98	PIs Sta 764+32.90	PI Sta 783+09.22
Δ = 6° 17' 51.1" (LT)	Θs = 0° 39' 44.6"	Θs = 1° 33' 11.5"	Δ = 25° 15' 00.5" (RT)	Θs = 1° 33' 11.5"	Θs = 1° 05' 13.9"	Δ = 37° 54' 13.4" (LT)
D = 0° 39' 44.6"	Ls = 200.00'	Ls = 225.00'	D = 1° 22' 50.2"	Ls = 225.00'	Ls = 200.00'	D = 1° 05' 13.9"
L = 475.85'	LT = 133.33'	LT = 150.01'	L = 1,828.90'	LT = 150.01'	LT = 133.34'	L = 3,486.34'
L = 950.74'	ST = 66.67'	ST = 75.01'	T = 929.54'	ST = 75.01'	ST = 66.67'	T = 1,809.66'
R = 8,650.00'			R = 4,150.00'			R = 5,270.00'
SE = 025			SE = 05			SE = 04

-ORCWLPA-

PIs Sta 11+34.46	PI Sta 22+98.92	PI Sta 27+17.76
Θs = 22° 55' 01.8"	Δ = 154° 22' 02.1" (LT)	Δ = 90° 46' 01.5" (LT)
Ls = 199.99'	D = 22° 55' 05.9"	D = 6° 52' 42.0"
LT = 134.46'	L = 673.55'	L = 1,319.61'
ST = 67.70'	T = 1,098.93'	T = 844.22'
	R = 250.00'	R = 832.99'
	SE = 08	SE = 06

-ORCWRPA-

PIs Sta 12+53.68	PI Sta 16+80.38	PIs Sta 20+86.66	PI Sta 37+32.60
Θs = 4° 46' 28.7"	Δ = 33° 24' 21.0" (RT)	Θs = 4° 46' 28.7"	Δ = 117° 34' 10.5" (LT)
Ls = 200.00'	D = 4° 46' 28.7"	Ls = 200.00'	D = 6° 43' 57.9"
LT = 133.38'	L = 699.65'	LT = 133.38'	L = 1,746.23'
ST = 66.71'	T = 360.08'	ST = 66.71'	T = 1,404.33'
	R = 1,200.00'		R = 851.00'
	SE = 08		SE = 06

-ORCWRPC-

PIs Sta 13+06.79	PI Sta 14+72.63	PIs Sta 16+38.37	PI Sta 23+77.73
Θs = 2° 28' 10.7"	Δ = 4° 53' 45.7" (RT)	Θs = 2° 28' 10.7"	Δ = 48° 38' 56.7" (RT)
Ls = 200.00'	D = 2° 28' 10.7"	Ls = 200.00'	D = 9° 45' 38.8"
LT = 133.35'	L = 198.25'	LT = 133.35'	L = 498.41'
ST = 66.68'	T = 99.18'	ST = 66.68'	T = 265.34'
	R = 2,320.00'		R = 587.00'
	SE = 06		SE = 08

-ORCWRPD-

PIs Sta 11+33.38	PI Sta 12+98.14	PIs Sta 14+62.56	PI Sta 26+27.06
Θs = 4° 46' 27.9"	Δ = 9° 21' 05.8" (LT)	Θs = 4° 46' 28.7"	Δ = 96° 03' 08.2" (LT)
Ls = 199.99'	D = 4° 46' 28.7"	Ls = 200.00'	D = 7° 33' 31.7"
LT = 133.38'	L = 195.86'	LT = 133.38'	L = 1,270.73'
ST = 66.71'	T = 98.15'	ST = 66.71'	T = 842.62'
	R = 1,200.00'		R = 758.00'
	SE = 08		SE = 08

-ORCWY16-

PI Sta 27+23.97	PI Sta 45+29.93	PI Sta 60+33.59
Δ = 90° 11' 01.2" (LT)	Δ = 16° 00' 16.3" (RT)	Δ = 30° 27' 48.8" (RT)
D = 6° 11' 14.8"	D = 0° 57' 23.5"	D = 6° 48' 17.0"
L = 1,457.53'	L = 1,673.20'	L = 447.68'
T = 928.97'	T = 842.08'	T = 229.27'
R = 926.00'	R = 5,990.00'	R = 842.00'
SE = 04	SE = 04	SE = 04

-ORCWY16A-

PI Sta 13+85.51
Δ = 41° 06' 01.4" (LT)
D = 10° 44' 58.8"
L = 382.34'
T = 199.81'
R = 533.00'
SE = 04

LEGEND

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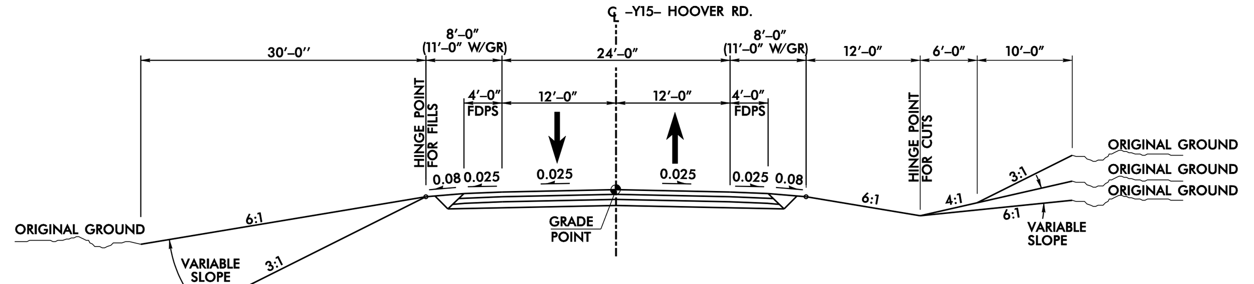
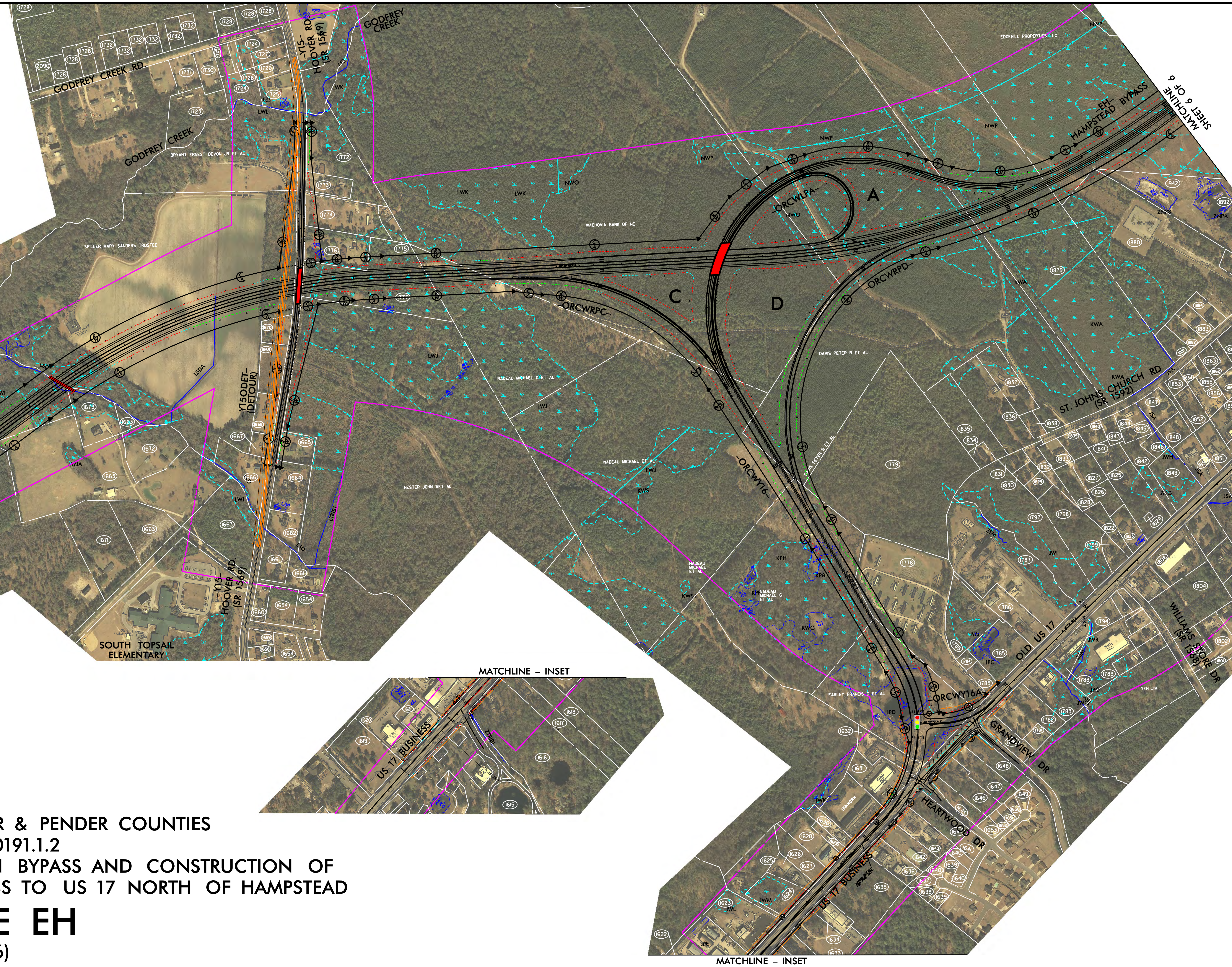
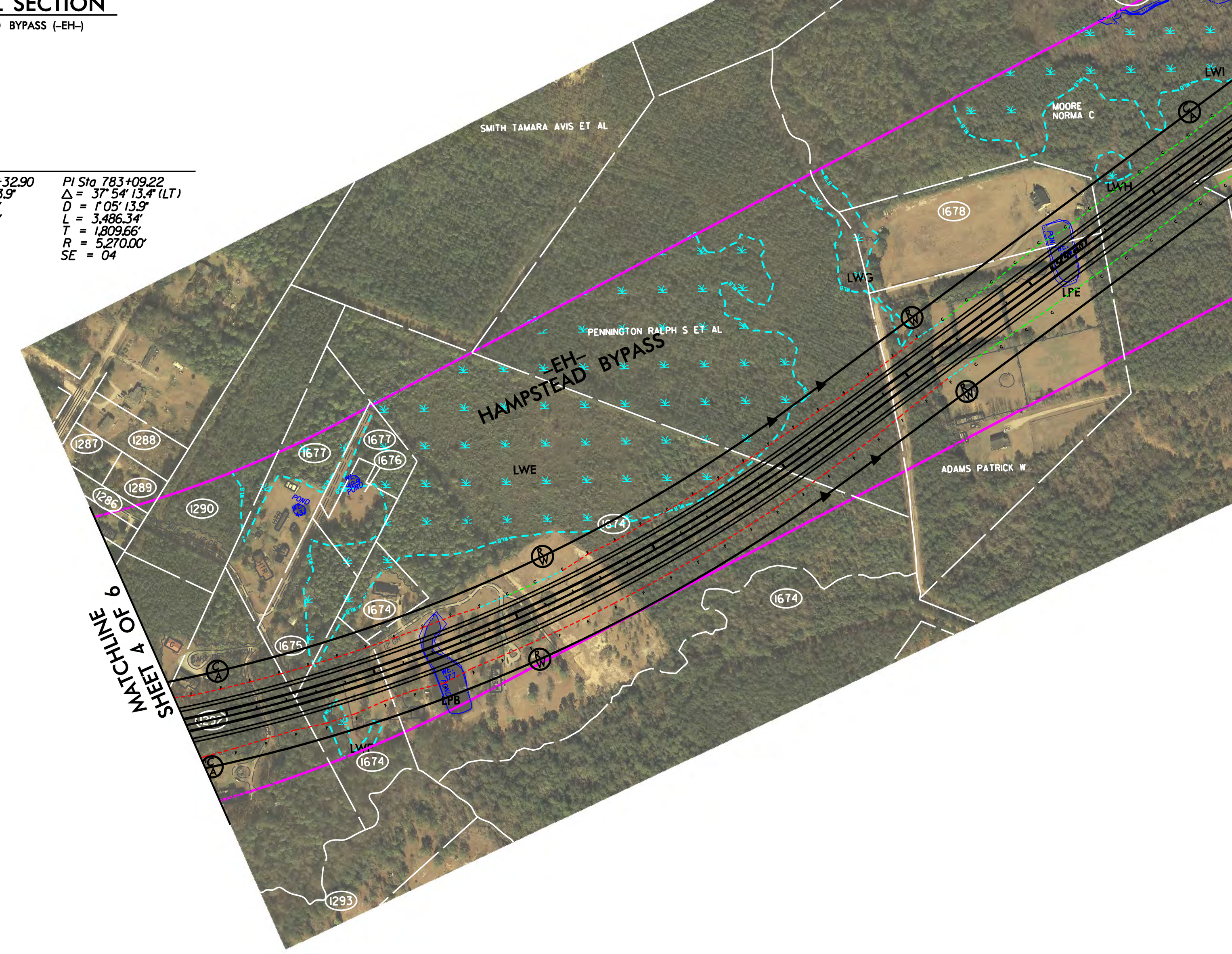
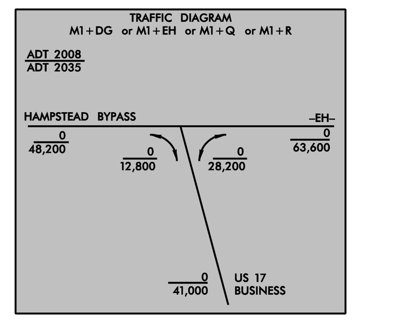
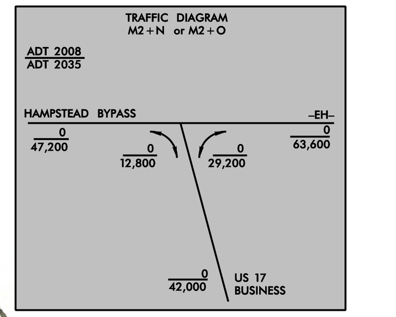


TYPICAL SECTION
HOOVER RD. (-Y15-)









LEGEND

- FILL
- TRANSITION
- CUT
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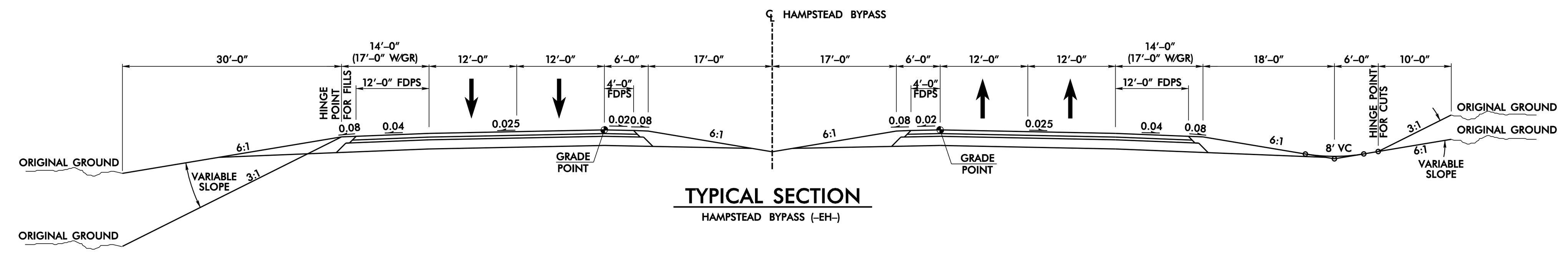
EXTENSION OF SR 1409 TO THE WILMINGTON BYPASS AND CONSTRUCTION OF HAMPSTEAD BYPASS FROM WILMINGTON BYPASS TO US 17 NORTH OF HAMPSTEAD

ALTERNATE EH

(SHEET 5 OF 6)

U–4751 & R–3300 NEW HANOVER & PENDER COUNTIES
STATE PROJECT 40191.1.2
EXTENSION OF SR 1409 TO THE WILMINGTON BYPASS AND CONSTRUCTION OF HAMPSTEAD BYPASS FROM WILMINGTON BYPASS TO US 17 NORTH OF HAMPSTEAD

ALTERNATE EH



TYPICAL SECTION
HAMPSTEAD BYPASS (–EH–)

HAMPSTEAD BYPASS (–EH–)

PIs Sta 800+52.58	PIs Sta 833+81.20	PI Sta 843+96.29	PIs Sta 853+12.69	PIs Sta 859+27.87	PI Sta 867+89.23
Θs = 1° 05' 13.9"	Θs = 4° 31' 36.9"	Δ = 46° 09' 55.9" (RT)	Θs = 4° 31' 36.9"	Θs = 5° 03' 53.4"	Δ = 45° 16' 23.6" (LT)
Ls = 200.00'	Ls = 335.00'	D = 2° 42' 09.5"	Ls = 335.00'	Ls = 320.00'	D = 3° 09' 55.8"
LT = 133.34'	LT = 223.41'	L = 1,708.17'	LT = 223.41'	LT = 213.42'	L = 1,430.20'
ST = 66.67'	ST = 111.73'	T = 903.50'	ST = 111.73'	ST = 106.75'	T = 754.79'
		R = 2,120.00'			R = 1,810.00'
		SE = 08			SE = 08

PIs Sta 875+71.39	PIs Sta 910+81.55	PI Sta 914+40.63	PIs Sta 917+98.61	PI Sta 930+99.78
Θs = 5° 03' 53.4"	Θs = 2° 16' 29.9"	Δ = 9° 03' 01.9" (LT)	Θs = 2° 16' 29.9"	Δ = 5° 11' 40.9" (RT)
Ls = 320.00'	Ls = 270.00'	D = 1° 41' 06.6"	Ls = 270.00'	D = 0° 23' 23.2"
LT = 213.42'	LT = 180.01'	L = 537.07'	LT = 180.01'	L = 1,332.77'
ST = 106.75'	ST = 90.01'	T = 269.09'	ST = 90.01'	T = 666.84'
		R = 3,400.00'		R = 14,700.00'
		SE = 06		SE = NC

LEGEND

- FILL
- TRANSITION
- CUT
- CORRIDOR
- STREAMS
- PONDS
- WETLAND BOUNDARY
- STRUCTURES
- CONSTRUCTION EASEMENT
- CONTROL OF ACCESS
- LIMITED CONTROL OF ACCESS
- PARTIAL CONTROL OF ACCESS
- RIGHT–OF–WAY
- TRAFFIC SIGNAL
- RCW FORAGING HABITAT BOUNDARY

SCALE

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLANS PREPARED BY:

MULKEY
ENGINEERS & CONSULTANTS
PO Box 33127
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(919) 851-1912
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