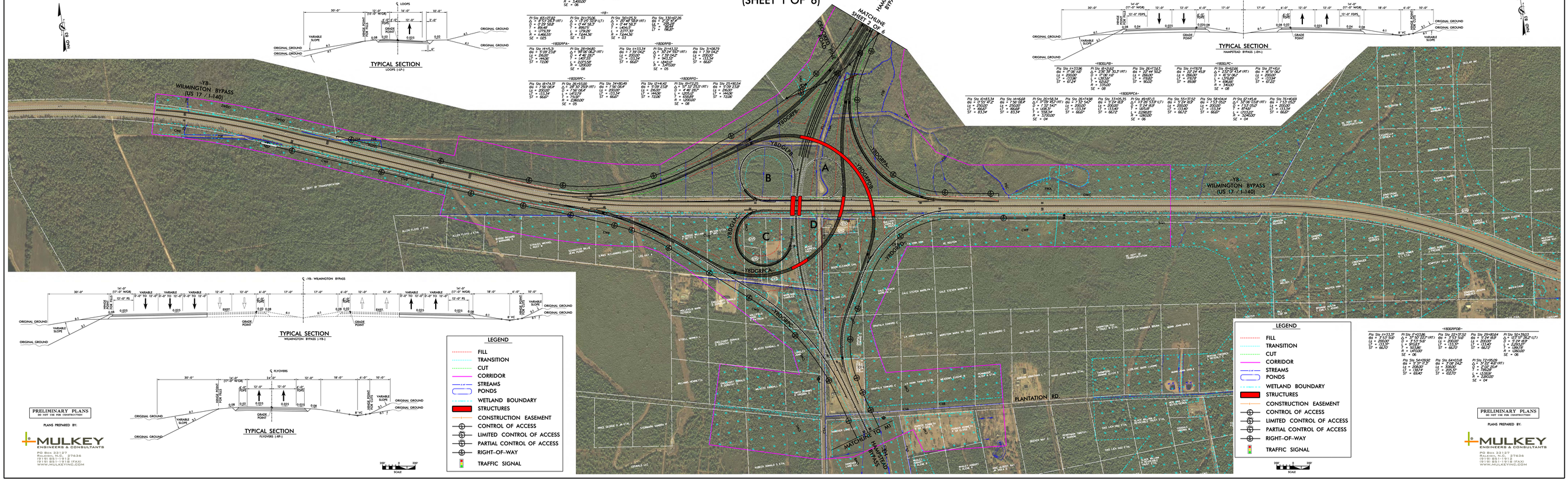
# U–4751 & R–3300 NEW HANOVER & PENDER COUNTIES
## STATE PROJECT 40191.1.2
## EXTENSION OF SR 1409 TO THE WILMINGTON BYPASS AND CONSTRUCTION OF HAMPSTEAD BYPASS FROM WILMINGTON BYPASS TO US 17 NORTH OF HAMPSTEAD

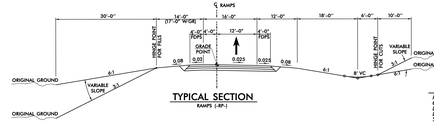
# ALTERNATE EH

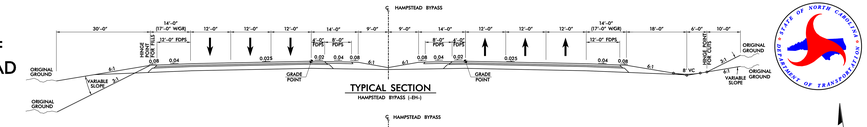
(SHEET 1 OF 6)










TRAFFIC DIAGRAM
MT-1 DG or MT-1 DR or MT-1 G or MT-1 R

TRAFFIC DIAGRAM
MT-1 FT or MT-1 S

-EH-
Pls Sta 209+40.37
θR = 2°46' 25.0"
Ls = 070.00
LT = 035.01
ST = 70.02

Pls Sta 207+00.00
Δ = 52°56' 55.0" (RT)
D = 1°44' 06.8"
L = 1,056.45
T = 564.50
R = 3,450.07
SE = 06

Pls Sta 242+12.78
θR = 2°46' 25.0"
Ls = 070.00
LT = 035.01
ST = 70.02

-YB-
Pls Sta 302+72.89
Δ = 8°41' 58.5" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 025

Pls Sta 314+26.26
Δ = 17°27' 53.9" (LT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 03

Pls Sta 330+69.76
Δ = 8°41' 58.5" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 03

Pls Sta 130+69.26
θR = 5°56' 50.4"
Ls = 020.00
LT = 010.00
ST = 20.00

-Y8DGPA-
Pls Sta 14+15.5
θR = 5°09' 23.0"
Ls = 090.00
LT = 044.99
ST = 70.08

Pls Sta 28+94.80
Δ = 98°06' 06.2" (RT)
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

-Y8DGPB-
Pls Sta 9+13.54
θR = 7°39' 04.2"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

-Y8DGPC-
Pls Sta 10+44.62
θR = 5°09' 23.0"
Ls = 090.00
LT = 044.99
ST = 70.08

-Y8DGPD-
Pls Sta 14+43.32
Δ = 52°24' 09.2" (RT)
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

Pls Sta 3+08.79
θR = 1°39' 04.2"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

-Y8DGPE-
Pls Sta 19+74.37
θR = 1°50' 08.4"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

Pls Sta 30+13.00
Δ = 7°40' 08.4"
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 05

Pls Sta 34+80.49
θR = 1°50' 08.4"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

-Y8DGPF-
Pls Sta 10+68.68
θR = 1°50' 08.4"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

Pls Sta 30+68.54
Δ = 7°09' 54.7" (RT)
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 04

Pls Sta 35+74.88
θR = 1°50' 08.4"
Ls = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 08

-Y8DGPG-
Pls Sta 33+05.35
θR = 5°09' 23.0"
Ls = 090.00
LT = 044.99
ST = 70.08

Pls Sta 49+87.13
Δ = 93°26' 53.9" (LT)
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 06

-Y8DGPH-
Pls Sta 55+57.52
θR = 5°09' 23.0"
Ls = 090.00
LT = 044.99
ST = 70.08

Pls Sta 58+04.14
θR = 1°57' 05.0"
Ls = 090.00
LT = 045.00
ST = 70.09

-Y8DGPI-
Pls Sta 67+45.41
Δ = 12°06' 03.8" (RT)
D = 2°46' 28.7"
L = 1,401.06
R = 2,070.00
SE = 04

Pls Sta 76+40.69
θR = 1°57' 05.0"
Ls = 090.00
LT = 045.00
ST = 70.09

-Y8DGPJ-
Pls Sta 4+83.74
θR = 0°55' 47.2"
Ls = 090.00
LT = 044.99
ST = 83.54

-Y8DGPK-
Pls Sta 10+68.68
θR = 1°50' 08.4"
Ls = 090.00
LT = 045.00
ST = 83.54

-Y8DGPL-
Pls Sta 61+52.62
θR = 2°06' 30.9" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 67+32.21
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

-Y8DGPM-
Pls Sta 1+97.73
Δ = 5°22' 50.2" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 7+77.32
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

-Y8DGPN-
Pls Sta 1+97.73
Δ = 5°22' 50.2" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 7+77.32
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

-Y8DGPO-
Pls Sta 1+97.73
Δ = 5°22' 50.2" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 7+77.32
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

-Y8DGPP-
Pls Sta 1+33.57
θR = 7°33' 54.0"
Ls = 100.00
LT = 049.99
ST = 66.70

Pls Sta 2+07.28
Δ = 57°32' 25.0" (RT)
D = 7°33' 54.0"
L = 575.98
R = 760.00
SE = 06

Pls Sta 5+90.92
θR = 7°33' 54.0"
Ls = 100.00
LT = 049.99
ST = 66.70

Pls Sta 6+40.18
θR = 7°33' 54.0"
Ls = 100.00
LT = 049.99
ST = 66.70

Pls Sta 7+98.64
θR = 5°24' 49.0"
Ls = 100.00
LT = 049.99
ST = 66.72

Pls Sta 8+47.90
Δ = 57°32' 25.0" (LT)
D = 7°33' 54.0"
L = 575.98
R = 760.00
SE = 06

Pls Sta 10+23.03
Δ = 07°57' 26.2" (LT)
D = 5°24' 49.0"
L = 420.00
R = 1,060.00
SE = 06

Pls Sta 14+09.92
θR = 5°37' 37.2"
Ls = 100.00
LT = 050.00
ST = 68.40

Pls Sta 14+63.18
θR = 7°08' 24.2"
Ls = 100.00
LT = 049.99
ST = 69.70

Pls Sta 15+49.64
θR = 7°08' 24.2"
Ls = 100.00
LT = 049.99
ST = 69.70

Pls Sta 15+99.24
Δ = 52° 52' 48.0" (RT)
D = 5°24' 49.0"
L = 1,056.00
R = 1,060.00
SE = 04

Pls Sta 16+55.24
θR = 7°08' 24.2"
Ls = 100.00
LT = 049.99
ST = 69.70

Pls Sta 17+45.02
θR = 7°08' 24.2"
Ls = 100.00
LT = 049.99
ST = 69.70

Pls Sta 17+93.72
θR = 5°37' 37.2"
Ls = 100.00
LT = 050.00
ST = 68.40

-Y8DGPQ-
Pls Sta 1+97.73
Δ = 5°22' 50.2" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 7+77.32
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

-Y8DGPR-
Pls Sta 1+97.73
Δ = 5°22' 50.2" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

Pls Sta 7+77.32
Δ = 3°20' 54.4" (RT)
D = 0°29' 58.8"
L = 1,179.59
R = 11,466.55
SE = 08

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

SCALE 200' 0 200'

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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

(SHEET 2 OF 6)







-Y9DGDET-

Pt Sta 89+40.08
Δ = 7°00'00.0" (LT)
D = 1°00.303'
L = 1400.0'
T = 700.3'
R = 5,700.00'
SE = 02

Pt Sta 96+10.75
Δ = 9°04'15.0" (RT)
D = 1°00.857'
L = 1867.9'
R = 5700.00'
SE = 02

Pt Sta 114+42.40
Δ = 7°00'00.0" (RT)
D = 1°00.303'
L = 1400.0'
T = 700.3'
R = 5,700.00'
SE = 02

Pt Sta 46+35.85
Δ = 7°00'00.0" (LT)
D = 1°00.303'
L = 1765.9'
R = 5700.00'
SE = 02

-EH-

Pt Sta 269+47.39
Δ = 6°30'27.9" (RT)
D = 0°51.274"
L = 1140.0'
T = 771.59'
R = 11,170.00'
SE = NC

Pt Sta 298+17.70
Δ = 1°05'13.9"
D = 0°11.141"
L = 1,170.00'
ST = 664.87'

Pt Sta 320+25.60
Δ = 45°49'44.5" (LT)
D = 1°00.153"
L = 2,620.06'
R = 5,570.00'
SE = 04

Pt Sta 339+43.70
Δ = 1°05'13.9"
D = 0°11.141"
L = 1,170.00'
ST = 664.87'

Pt Sta 350+97.0
Δ = 0°48'08.9"
LE = 550.00'
L = 1,080.00'
ST = 662.37'

Pt Sta 362+06.28
Δ = 44°59'50.9" (RT)
D = 1°00.153"
L = 2,620.06'
R = 5,570.00'
SE = 03

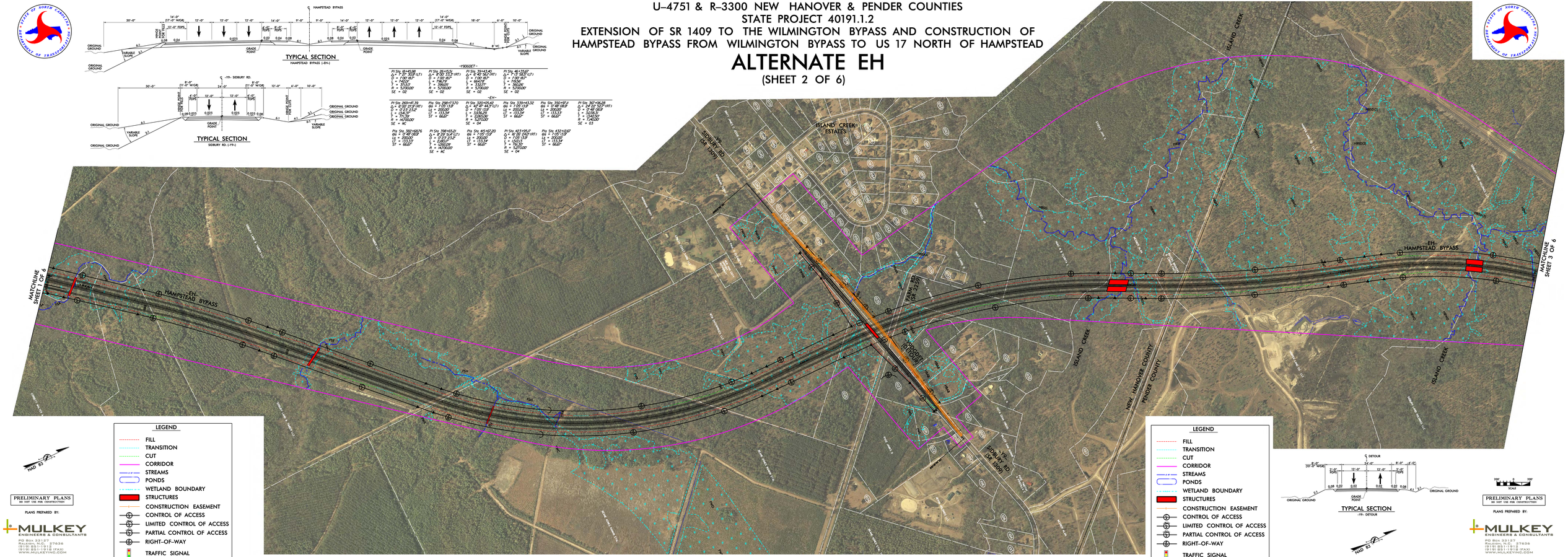
Pt Sta 387+68.76
Δ = 0°48'08.9"
LE = 550.00'
L = 1,080.00'
LT = 1333.5'
ST = 662.37'

Pt Sta 398+65.0
Δ = 29°55'45.5" (LT)
D = 2°27.012"
L = 2,650.07'
R = 2,050.09'
R = NC

Pt Sta 49+62.20
Δ = 1°05'13.9"
LE = 550.00'
LT = 1333.5'
ST = 662.37'

Pt Sta 457+95.0
Δ = 90°00'00.0" (RT)
D = 1°00.153"
L = 1,570.80'
R = 5,570.00'
SE = 04

Pt Sta 433+62.0
Δ = 0°48'08.9"
LE = 550.00'
LT = 1333.5'
ST = 662.37'




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

NAD 83

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LEGEND
- FILL
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NAD 83

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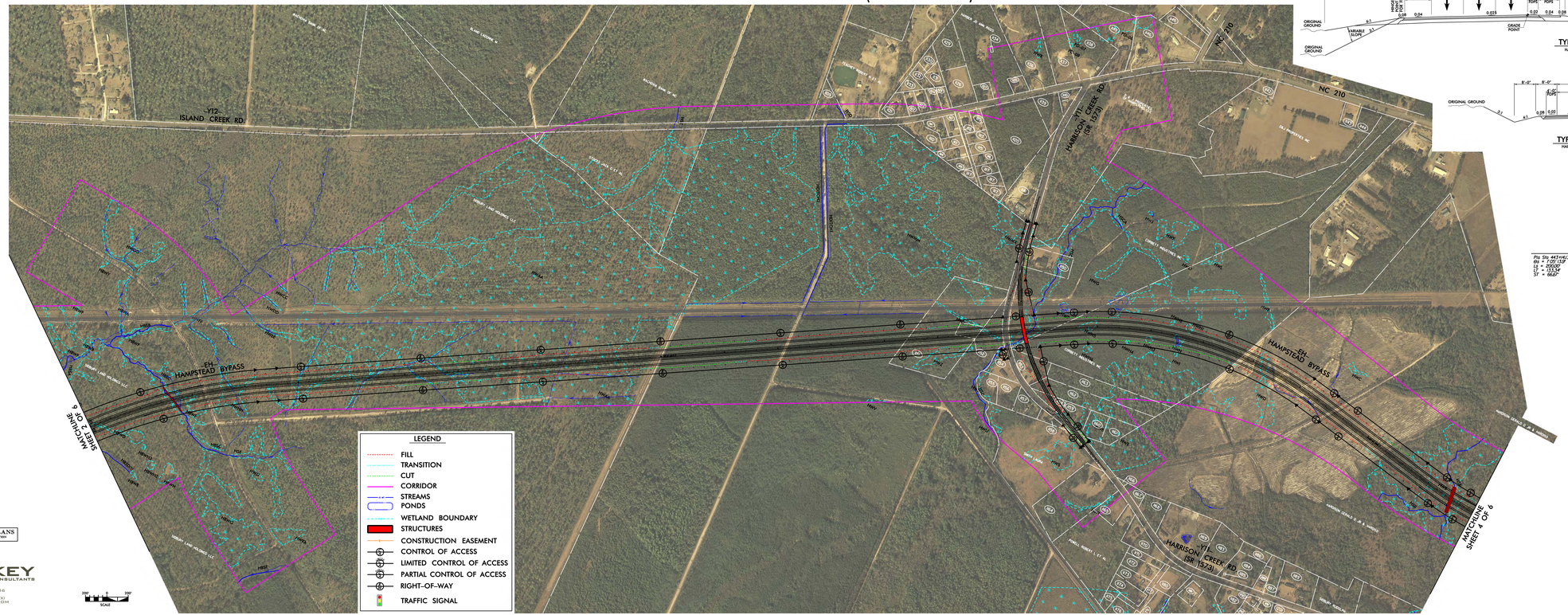
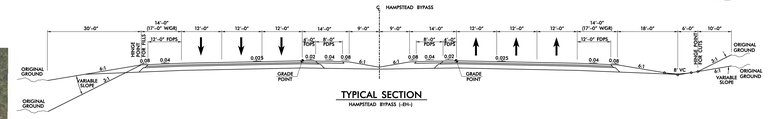
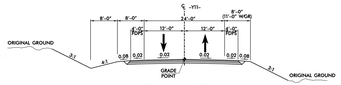
# ALTERNATE EH

(SHEET 3 OF 6)




TYPICAL SECTION
HAMPSTEAD BYPASS (-EH-)




TYPICAL SECTION
HARRISON CREEK RD. (-Y11-)

-EH-

Pt Sta 443+43
Rt = 40.00'
Lt = 100.00'
D = 11°14'
ST = 668'

Pt Sta 454+25.98 (RT)
Δ = 7°29'13.9"
D = 7°29'13.9"
T = 1,067.03'
L = 2,134.05'
R = 764.08'
SE = 04

Pt Sta 465+41.06
Rt = 100.00'
Lt = 100.00'
D = 11°14'
ST = 668'

Pt Sta 530+95.82
Rt = 200.00'
Lt = 200.00'
D = 5°43'29.6"
ST = 900'

Pt Sta 544+17.70 (RT)
Δ = 39°49'43.6"
D = 39°49'43.6"
T = 1,867.74'
L = 3,473.39'
R = 143.80'
SE = 06

Pt Sta 556+39.56
Rt = 200.00'
Lt = 200.00'
D = 5°43'29.6"
ST = 900'

Pt Sta 561+85.98
Rt = 200.00'
Lt = 200.00'
D = 5°43'29.6"
ST = 900'

Pt Sta 582+60.65
Δ = 67°36'20.5" (LT)
D = 67°36'20.5"
T = 1,067.03'
L = 2,134.05'
R = 1,089.89'
R = 3,400.00'
SE = 06

-Y12-
Pt Sta 2+14.63
Δ = 54°52'07.8" (LT)
D = 7°00'27.6"
T = 1,067.03'
L = 960.00'
R = 1,909.00'
SE = 04





SCALE 200' 0 200'

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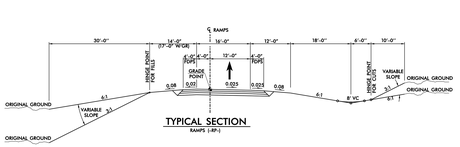
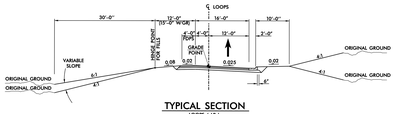
# ALTERNATE EH

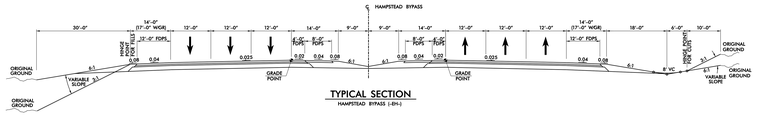
(SHEET 4 OF 6)



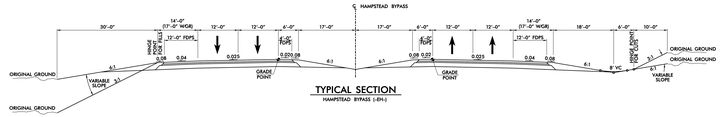

TYPICAL SECTION
RAMPS (-RP-)



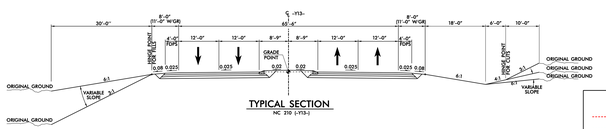

TYPICAL SECTION
LOOPS (-LP-)



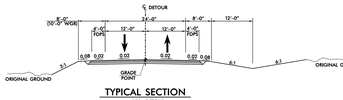

TYPICAL SECTION
HAMPSTEAD BYPASS (-BH-)




TYPICAL SECTION
HAMPSTEAD BYPASS (-BH-)




TYPICAL SECTION
NC 210 (-Y13-)




TYPICAL SECTION
-Y13- DETOUR

SCALE
200' 0 200'

LEGEND
- FILL
- TRANSITION
- CUT
- CORRIDOR
- STREAMS
- PONDS
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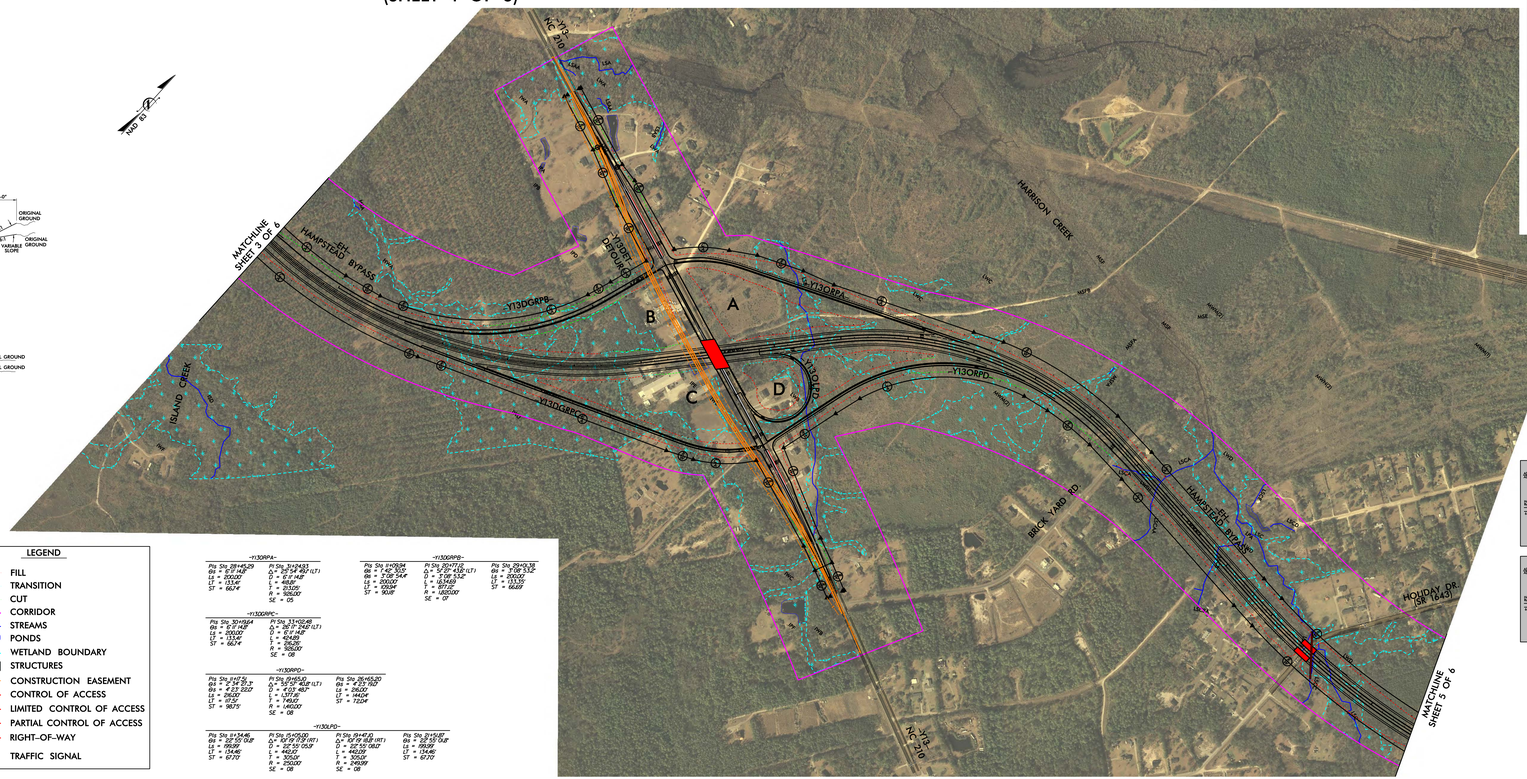


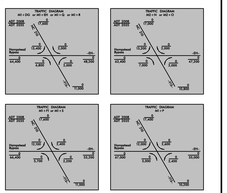


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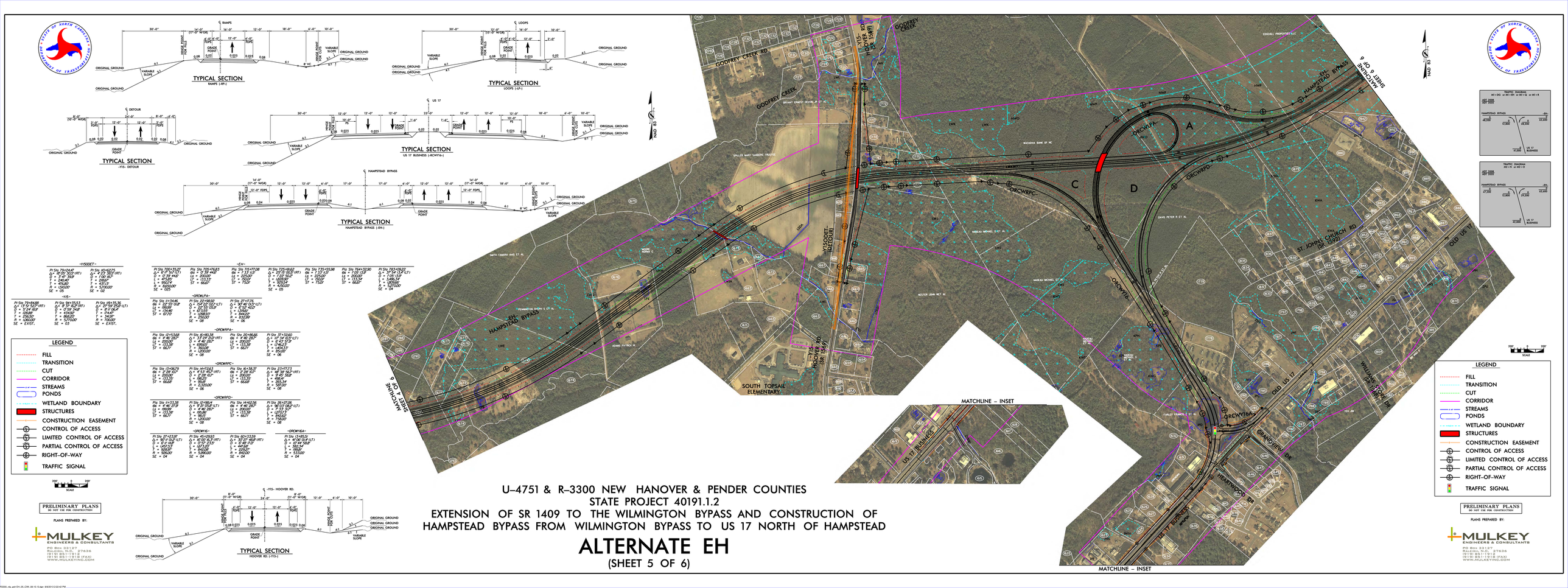



U-4751 & R-3300 NEW HANOVER & PENDER COUNTIES
STATE PROJECT 40191.1.2
EXTENSION OF SR 1409 TO THE WILMINGTON BYPASS AND CONSTRUCTION OF HAMPSTEAD BYPASS FROM WILMINGTON BYPASS TO US 17 NORTH OF HAMPSTEAD

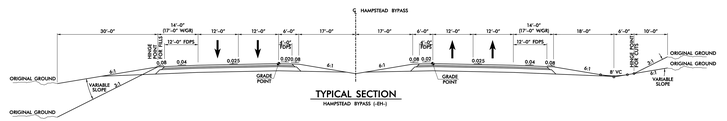
# ALTERNATE EH

(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

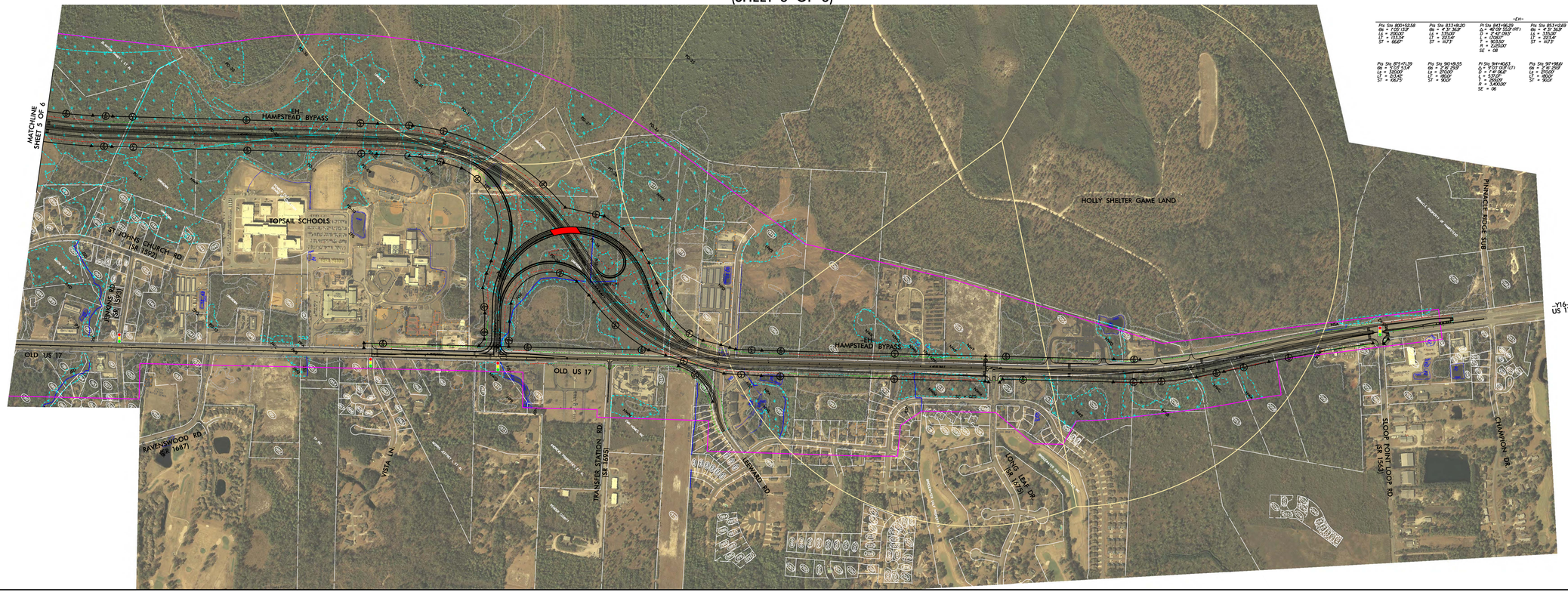
# ALTERNATE EH

(SHEET 6 OF 6)




-EH-

| | | | | | |
|---|---|---|---|---|---|
| Pos Sta 800+52.58<br>Rb = 7°05'15.9"<br>Ls = 300.00'<br>LT = 153.54'<br>ST = 666.0' | Pos Sta 833+80.20<br>Rb = 3° 36.9"<br>Ls = 330.00'<br>LT = 322.4'<br>ST = 1613' | Pt Sta 845+96.29<br>Δ = 40°09'53.9" (RT)<br>D = 5°43.09"<br>R = 1001.50'<br>L = 702.00'<br>T = 366.00'<br>SE = 08 | Pos Sta 853+12.69<br>Rb = 4° 36.9"<br>Ls = 330.00'<br>LT = 322.4'<br>ST = 1613' | Pos Sta 859+27.87<br>Rb = 3°05'53.4"<br>Ls = 330.00'<br>LT = 324.5'<br>ST = 1662' | Pt Sta 867+89.23<br>Δ = 40°46'23.6" (LT)<br>D = 7°09'35.8"<br>R = 800.50'<br>L = 569.78'<br>T = 296.00'<br>SE = 08 |
| Pos Sta 875+71.39<br>Rb = 5°05'53.4"<br>Ls = 330.00'<br>LT = 324.5'<br>ST = 1067.5' | Pos Sta 90+18.55<br>Rb = 3°46'29.9"<br>Ls = 270.00'<br>LT = 180.0'<br>ST = 900.0' | Pt Sta 944+45.61<br>Δ = 9°03'03.9" (LT)<br>D = 1°49.06'<br>R = 5170.0'<br>L = 816.00'<br>T = 409.00'<br>SE = 08 | Pos Sta 59+98.82<br>Rb = 3°46'29.9"<br>Ls = 270.00'<br>LT = 180.0'<br>ST = 900.0' | Pt Sta 530+99.78<br>Δ = 5°14'40.18"<br>D = 1°07'23.4"<br>R = 5102.71'<br>L = 467.00'<br>T = 233.64'<br>SE = NC | |




LEGEND
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- 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

300' 0 300' SCALE

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