
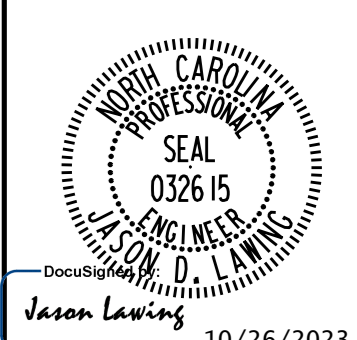


5/14/99

Kimley»Horn

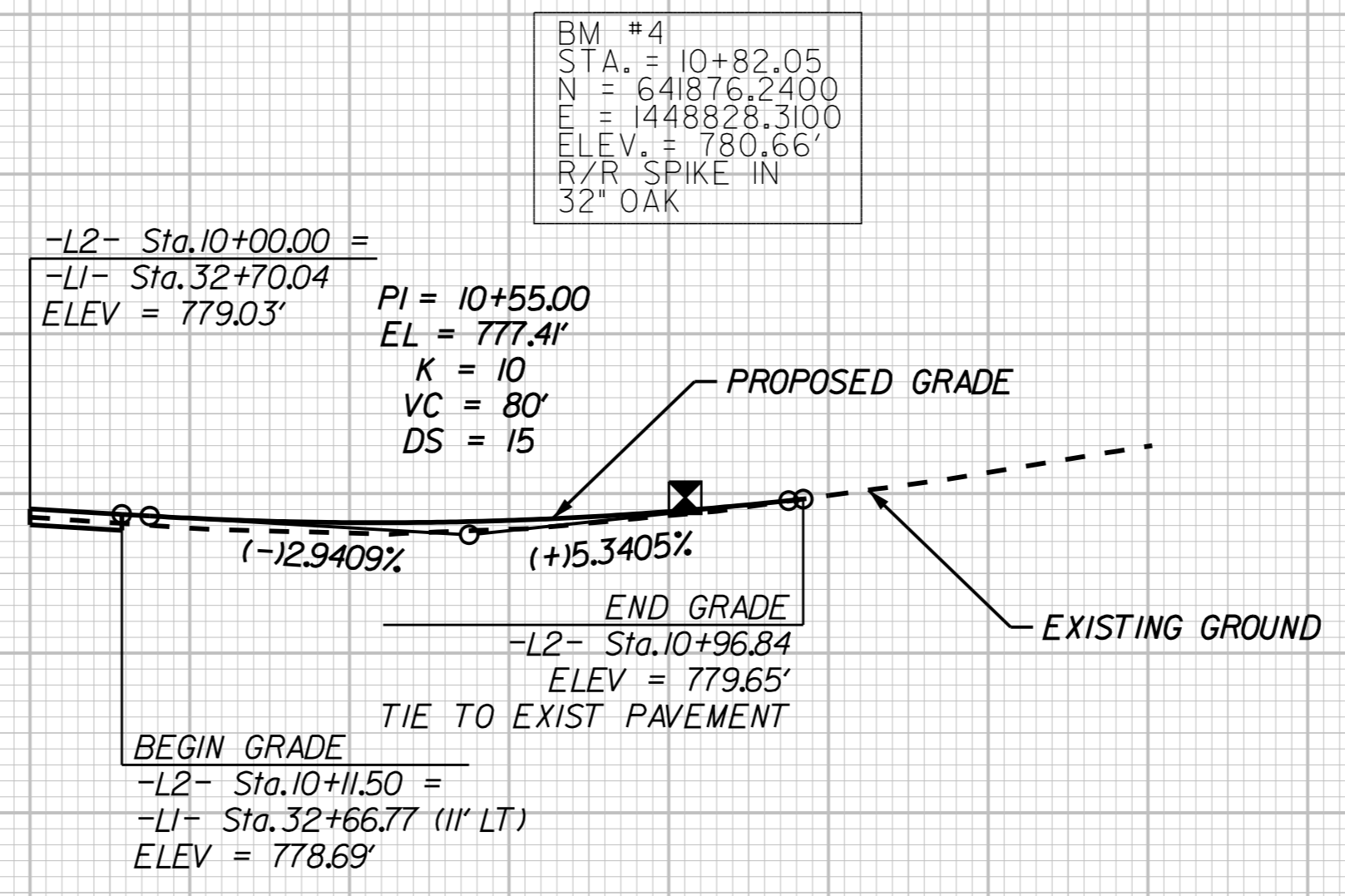
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. <i>U-5907</i>	SHEET NO. <i>15</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
<i>Frank D. Masters</i> 10/25/2023	<i>Jason Lewis</i> 10/26/2023

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

810
800
790
780
770
760
750

790
780
770
760
750



BM #4
STA. = 10+82.05
ELEV. = 648.76, 2400
N = 1448828.3100
ELEV. = 780.66'
32" SPIKE IN
32" OAK

-L2- Sta. 10+00.00 =
-L1- Sta. 32+70.04
ELEV = 779.03'

PI = 10+55.00
EL = 777.41'
K = 10
VC = 80'
DS = 15

BEGIN GRADE
-L2- Sta. 10+11.50 =
-L1- Sta. 32+66.77 (11' LT)
ELEV = 778.69'

END GRADE
-L2- Sta. 10+96.84
ELEV = 779.65'
TIE TO EXIST PAVEMENT

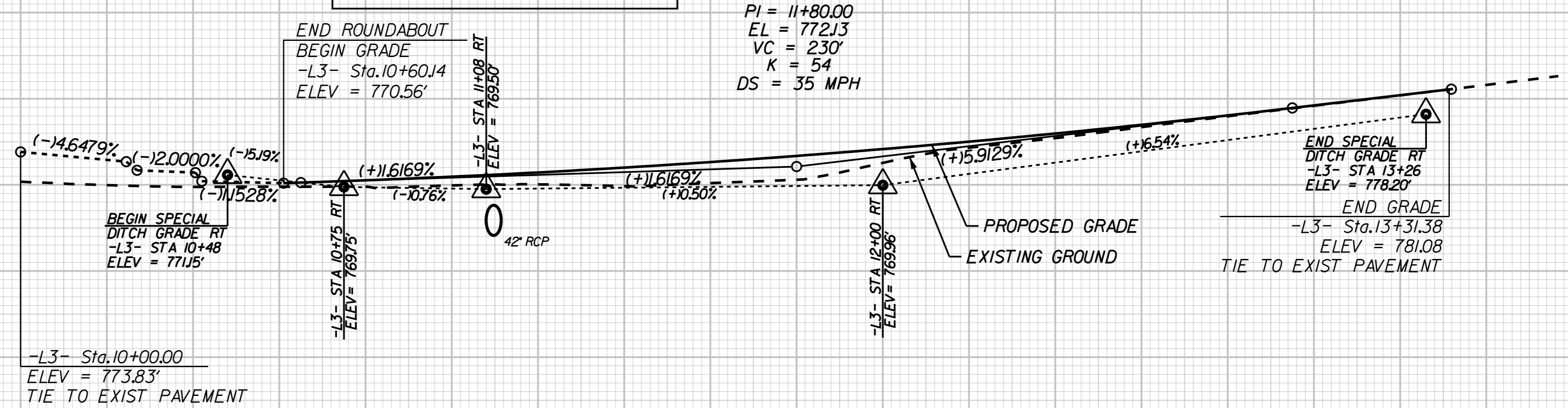
PROPOSED GRADE
EXISTING GROUND

Grades: (-)2.9409%, (+)5.3405%

CULVERT HYDRAULIC DATA	
1 @ 42" RCP (DO NOT BURY)	
DESIGN DISCHARGE	= 65 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 770.4 FT
BASE DISCHARGE	= 103 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 771.4 FT
OVERTOPPING DISCHARGE	= 78 CFS
OVERTOPPING FREQUENCY	= >25 YR
OVERTOPPING ELEVATION	= 771.0 FT

800
790
780
770
760
750
740

800
790
780
770
760
750
740



PI = 11+80.00
EL = 772.13
VC = 230'
K = 54
DS = 35 MPH

END ROUNDABOUT
BEGIN GRADE
-L3- Sta. 10+60.14
ELEV = 770.56'

BEGIN SPECIAL DITCH GRADE RT
-L3- STA 10+48
ELEV = 771.5'

-L3- STA 10+75 RT
ELEV = 769.75'

42" RCP

-L3- STA 12+00 RT
ELEV = 769.96'

END SPECIAL DITCH GRADE RT
-L3- STA 13+26
ELEV = 778.20'

END GRADE
-L3- Sta. 13+31.38
ELEV = 781.08
TIE TO EXIST PAVEMENT

PROPOSED GRADE
EXISTING GROUND

Grades: (-)4.6479%, (-)2.0000%, (-)1.519%, (-)1.528%, (-)10.76%, (+)1.6169%, (+)1.6169%, (+)10.50%, (+)15.9129%, (+)6.54%

LEGEND
DITCH GRADE RT

10/9/2023

10

11

12

13