

COMPUTED BY: M. HARTMAN DATE: OCTOBER 2025
CHECKED BY: A.RIGGS, JR. DATE: OCTOBER 2025

(9-17-24)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT NO.
I-2513AC

SHEET NO.
3G-1

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
-Y3-	29+50	31+50	LT/RT	SD	400
-Y3A-	11+00	13+50	LT/RT	SD	500
-Y3B-	10+20	11+50	LT/RT	SD	260
CONTINGENCY				SD	500
				TOTAL LF:	1660

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
-Y3-	1.5:1	22+50	1.5:1	23+12.36	LT	2		370
-Y3-	1.5:1	29+75	1.5:1	30+75	LT	2		270
							TOTAL SY:	640

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
-L-	13+60	121+20	ASU(2)	8"		67000	149000		
-Y2-	18+50	21+68	ASU(2)	8"		1650	3650		
-Y2RPB-	10+00	28+60	ASU(2)	8"		2400	5250		
-Y2RPC-	10+00	36+80	ASU(2)	8"		4000	8900		
-RP23-	10+00	40+90	ASU(2)	8"		6300	14000		
-RP32-	10+00	36+05	ASU(2)	8"		5150	11450		
-Y3-	13+50	30+50	ASU(2)	8"		4350	9700		
-Y3RPA-	10+00	22+17	ASU(2)	8"		2800	6250		
-Y3RPD-	10+00	22+54	ASU(2)	8"		2900	6400		
-Y6RPC-	10+00	24+50	ASU(2)	8"		2100	4700		
-RAB1-	10+00	13+17	ASU(2)	8"		650	1400		
-RAB2-	10+00	13+17	ASU(2)	8"		1200	2650		
CONTINGENCY			ASU(1)	12"	1000	2000	3000		
			TOTAL CY/TONS/SY:		1000	102500**	226350**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

SUMMARY OF SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-Y3A-13+00	10	LT
2	-Y3A-13+00	10	RT
3	-Y3A-13+50	10	LT
4	-Y3A-13+50	10	RT
5	-Y3A-14+00	10	LT
6	-Y3A-14+00	10	RT
7	-Y3A-14+50	10	LT
8	-Y3A-14+50	10	RT
9	-Y3-28+50	25	RT
10	-Y3-29+00	25	RT
11	-Y3-29+50	25	RT
12	-Y3-30+00	25	RT
13	-L- 77+50	53	RT
14	-L- 78+50	53	RT
15	-L- 79+00	20	RT
16	-L- 79+50	53	RT
TOTAL GAUGES (EACH):		16	

SUMMARY OF SURCHARGES
AND SURCHARGE WAITING PERIODS

LINE	Station	Station	Surcharge Height FT	MONTHS
-L-	77+50	80+11	38.0	4

SUMMARY OF EMBANKMENT
WAITING PERIODS

LINE	Station	Station	MONTHS
-Y3A	13+00	14+50	3
-Y3-	28+50	30+00	3

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS
BRIDGE 242	1 & 2	1
BRIDGE 898	1 & 2	1
BRIDGE 899	1 & 2	1

12/06/07

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Mohammed Fallaba

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PROJECT REFERENCE NO.	SHEET NO.
L-2513AC	3P-1

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	CROSSROADS ASSEMBLY FKA WEST ASHEVILLE ASSEMBLY OF GOD
2	4 & 5	ASHEVILLE HOMINY RIVERBLUE LLC (PHASE 1)
2A	4 & 5	RB P2, LLC
3	4	JESSE CALLOWAY JR
4	4 & 5	ANDERSON BEAR CREEK REAL ESTATE LLC
5	6	CITY OF ASHEVILLE
6	6	CITY OF ASHEVILLE
7	6	DAVID LINDSAY SMITH & CHRISTA SMITH INGLE
8	6	CHARLES L GIEZENTANNER III
9	6	KENNETH L & NANCY H SEHESTED
10	6	REAL INVESTMENTS LLC
11	6	MANDY SCEPANIAK
12	6	MARGARET SHAW
13	6	ELCO DYNAMICS LLC
14	6	BENJAMIN K ROBINSON
15	6	ELDRIDGE LEE COATES
16	6	BEVERLY P LEE
17	6	WILLIAM M & NANCY S REDMON (NO CLAIM)
18	6	MATTHEW & ASHLEY CHANNELS (NO CLAIM)
19	6	BRYANNA SANDERS GIBBS (NO CLAIM)
20	6	WILLIAM RALPH POOLE JR (NO CLAIM)
21	6	DONALD PAUL VEACH (NO CLAIM)
22	6	JERRY O & JUANITA OFFENBURGER
23	6	PAULINE P BROOKS
24	6	ADAM B & KASEY B JOHNSON
25	6	CYNTHIA LYNN RONEY (NO CLAIM)
26	6	JOHN R & KRISTINA R HENRY (NO CLAIM)
27	6	JACOB M DISABATINO (NO CLAIM)
28	6	ASTON PARK HEALTH CARE CENTER
29	6	KATHLEEN MARSTON BLOW
30	6	CITY OF ASHEVILLE
31	7	COUNTY OF BUNCOMBE
32	7	HAROLD JONES PAYNE, JR.
33	7	WILLIAM D McDOWALL JR & SHARON WAUGH
34	7	CALVIN BRADLEY STEVENS
35	7	CARNEY PLACE PROPERTY OWNERS ASSOCIATION
36	7	HILDA SMITH HEIRS
37	7	RLW PROPERTIES, INC.
38	7	AUDREY JOLENE EARNHARDT
39	7	ROBERT D SHEERAN
40	7	JEROME SMITH
41	7	LAUREN ROTHWELL
42	7	TRACY ALLEN ELLEGE
43	7	JOHN D & STEPHANIE A ROOT (NO CLAIM)
44	7	DANA R & PATRICIA TRANTHAM
45	7	TIFFANI J WYATT
46	7	LINDA A EAKES
47	7	WILLIAM C KINNEY
48	7	JOHN D & STEPHANIE A ROOT
49	7	SCOTT D & TOREY R LINK
50	7	RICKY A & REBECCA S ROGERS
51	7	RICKY A & REBECCA S ROGERS
52	7	RHONDA JEZEK & JACOB LEVINSOHN
53	7	PITROLO REVOCABLE TRUST
54	7	J & N PROPERTIES LLC (NO CLAIM)
55	7	RANDY CLIFF KAVARA (NO CLAIM)
56	7	ALEXIS GAULT (NO CLAIM)
57	7	HAMPTON LEE EDWARDS (NO CLAIM)
58	7	PROGRESS ENERGY FKA CP&L CO.
59	7	BRANDON KNOLLS LLC
60	7	TONY M & ANN B WILSON
61	7	TONY M & ANN B WILSON
62	7	TONY M & ANN B WILSON
63	7	RIVERVIEW WEST COMPANY LLC
64	7	DEREK TURNO
65	7	KRISTA-ANNE M KAY & JESSICA G YOUNGBLOOD
66	7	J PARR LLC
67	7	ROBERT M AIKEN
68	7	RACHEL D WINGO ANDREW W HAGER
69	7	FRED FISHER CAUDLE
70	7	KATHLEEN L BUTTERFIELD
71	7	TERRY L SIMMONS
72	7	RUTH H MASHBURN
73	7	TERRY L & ANDREA D SIMMONS
74	7	JEFFERY P & DEANNA CAMPBELL
75	7	DANIEL & CHERRY ODOGWU
76	7	LESLEY ANNE COHEN
77	7 & 8	BRANDON KNOLLS, LLC (NO CLAIM)
78	7 & 8	JOYCE B HICKS & SAMMY HICKS III (NO CLAIM)
79	7 & 8	TERESA MARIE DUTCHER
80	7 & 8	N. C. STATE HWY. COMMISSION
81	8	ERIC M & MEGAN S DAVIS

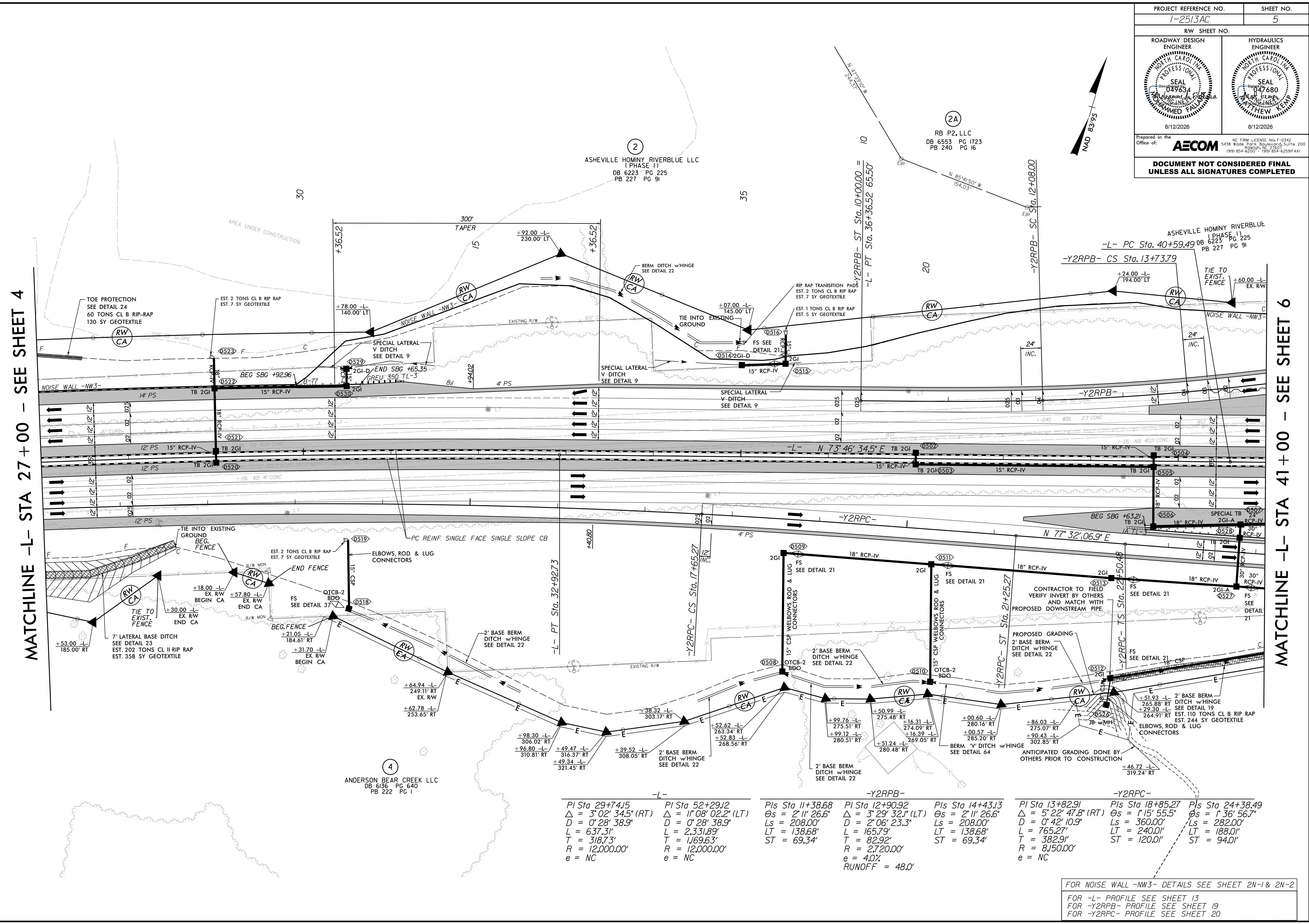
PARCEL No.	SHEET No.	PROPERTY OWNER NAME
82	8	JAY MCDANIEL & SHAMLA K SHAKIR (NO CLAIM)
83	8	JOHNATHAN A CRAWFORD
84	8	WESTEND COTTAGES OWNERS ASSOCIATION
85	8	GREEN DEVELOPMENT LLC (NO CLAIM)
86	8	JAMIE KNOX & ZACHARY A KNOX (NO CLAIM)
87	8 & 9	JACQUELINE MARIDA BILLERA
88	8 & 9	DANIEL & CARLY BROWN (NO CLAIM)
89	8	HALYNA SHAW & YVONNE L KOKASKA
90	8	CHRISTOPHER VETRO ZIN
91	8	KRYZANEK PROPERTIES LLC
92	8	NCDOT
93	8	OSWALD D PELAEZ
94	8	STEPHEN ROBERT PIERSON
95	8	JAMES H & JOAN A BROOKS
96	8	CARL J JUSTICE
97	8	WILLIAM D. GRADY
98	8	145 HANOVER STREET TRUST
99	8	CAROLINE ESCOBAR
100	8	CHALMERS BROWN JR & BETTY CHRESTMAN
101	8	ANDREW Y & KARA SMITH
102	8	BUNCOMBE COUNTY
103	8	PATMO LLC
104	8	111 HANOVER STREET TRUST
105	8	109 HANOVER STREET TRUST
106	9	BIG FISH LITTLE POND, LLC
107	9	CAROLE & MARK A WATTS (NO CLAIM)
108	9	CAROL MORLEY HIGGINS (NO CLAIM)
109	9	ONEORMO LLC
109A	9	J.N.WESCO, INC.
110	8	G&G INVESTMENT PROPERTIES, LLC
110A	8	G&G INVESTMENT PROPERTIES, LLC
111	8 & 9	CECIL E & MARIE W SPARKS
112	9	TERRY L. SIMMONS
113	9	NC DOT
114	9	GFFAC HOLDINGS LLC
115	9	TOBIAS A & LAURA WEAS
116	9	THE ROBERSON GROUP LLC
117	9	OSWALD CARLOS PELAEZ JR & PEDRO LUIS PELAEZ
118	9	TERRY L & ANDREA D SIMMONS
119	9	PATRICIA A WILLIAMS
120	9	N. C. STATE HIGHWAY COMMISSION
121	10	HOUSING AUTHORITY OF THE CITY OF ASHEVILLE
122	9	462 HAYWOOD LLC (NO CLAIM)
123	9	MICHAEL D SILVER ET AL (NO CLAIM)
124	10	PROGRESS ENERGY OF THE CAROLINASFKA CAROLINA POWER & LIGHT
125	10	CITY OF ASHEVILLE
126	8	THE ROBERSON GROUP LLC
127	4	JOLENE E MOODY
128	4	114 BILTMORE AVE, LLC
129	4	HARRY LEE COATES REVOCABLE LIVING TRUST
130	12	ROGERS LAND COMPANY LLC
131	12	RICKY A & REBECCA S ROGERS
132	12	JESSE J SHOUP & JANET SHOUP
133	12	STEPHANIE & JOHN ROOT
134	12	WILLIAM E & CAROL B SMITH
135	12	RICKY LEE COATES
136	12	RICKY L & HEIDI T COATES
137	12	BUNCOMBE LAND HOLDINGS LLC
138	4	ESTELLE LOU BARRETT AND ERIC JENSEN
139	4	RABE HASSAN
140	4	MCE HOLDINGS LLC
141	4	ZACHRY M. MASTERS AND WIFE JOAHNNA PORRAS-MORENO
142	4	TRUDIE MARIE HENNINGER; JOSEPH B. HENNINGER, JR. AND WIFE MOLLIE B. HENNINGER
143	4	DANNY L RICE AND WIFE SANDRA SPARKS RICE
144	6	NCDOT
145	6	TONY & ELLEN GILBERT
146	6	TOMMIE & CAROLYN TRANTHAM
147	6	JOHN & ROSMARY KAST
148	6	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
149	7	521 AMBOY LLC
150	7	NC DOT
151	7	NC DOT
152	7	RIVERVIEW WEST COMPANY LLC
152A	7	FRED FISHER CAUDLE, TRUSTEE
153	9	N. C. D.O.T.
154	10 & 10A	CAROLINA POWER & LIGHT CO.
155	6	NCDOT
156	6	PRESSLEY CONSTRUCTION & DEVELOPMENT INC
157	9	SAW VENTURES HARDWOOD II LLC
158	9	ASHEVILLE CITY BOARD OF EDUCATION
159	9	FIRST CHURCH OF GOD INC ASHEVILLE
160	10	FLORA J WILSON REVOCABLE TRUST



5/14/99

REVISIONS

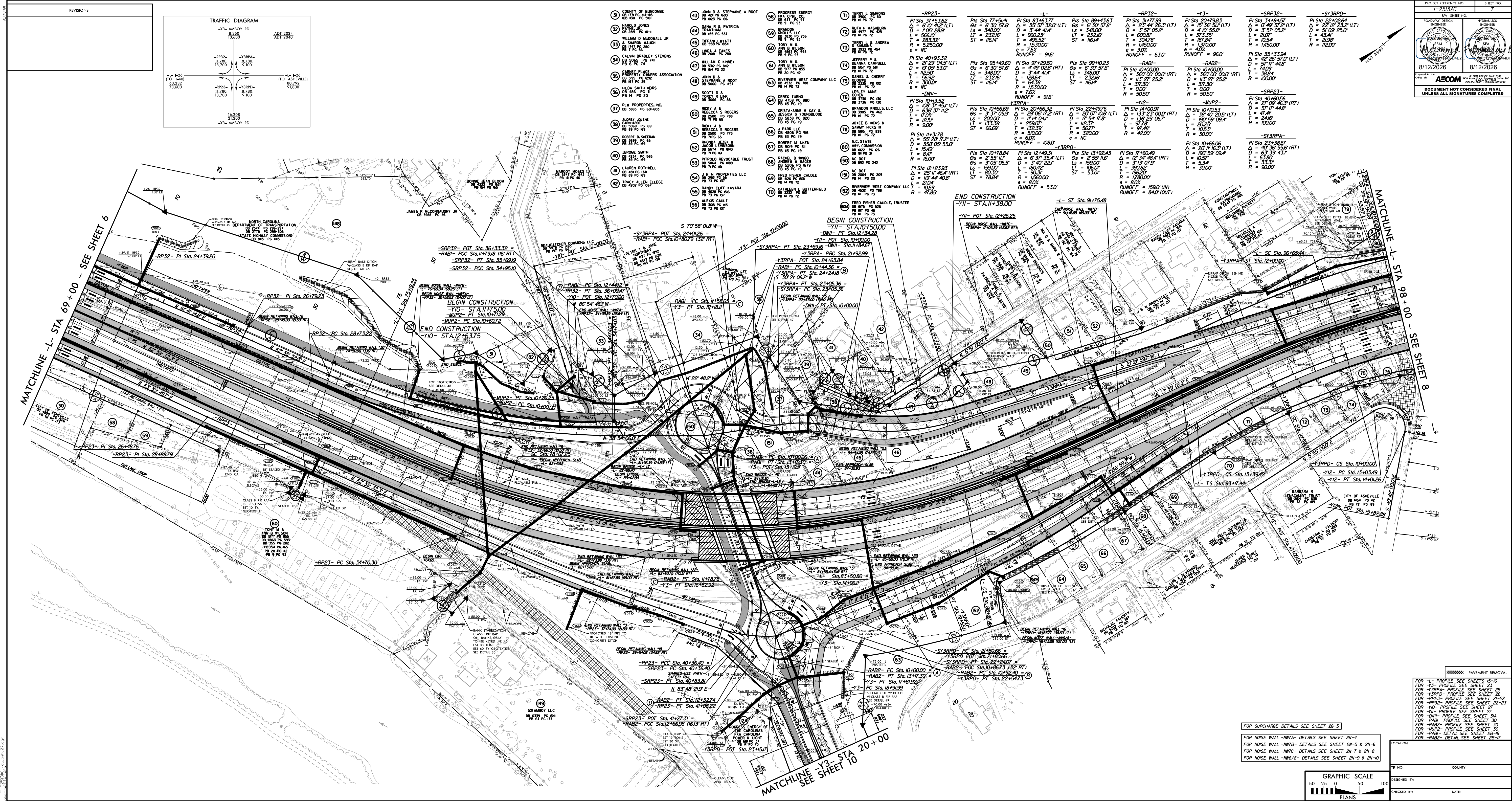
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mohammed@allstate



PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28217 (919) 854-6200 • (919) 854-6259 (FAX)	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-L- PI Sta 29+74.15 Δ = 3° 02' 34.5" (RT) D = 0' 28' 38.9" L = 637.31' T = 318.73' R = 12,000.00' e = NC		-L- PI Sta 52+29.12 Δ = 1° 08' 02.2" (LT) D = 0' 28' 38.9" L = 2,331.89' T = 1,169.63' R = 12,000.00' e = NC		-Y2RPB- PIs Sta 11+38.68 Δs = 2° 11' 26.6" Ds = 2° 06' 23.3" L = 165.79' LT = 138.68' T = 82.92' R = 2,720.00' e = 40% RUNOFF = 48.0'		-Y2RPC- PIs Sta 14+43.13 Δs = 2° 11' 26.6" Ds = 2° 06' 23.3" L = 165.79' LT = 138.68' T = 82.92' R = 2,720.00' e = 40% RUNOFF = 48.0'		-Y2RPC- PIs Sta 13+82.91 Δs = 5° 22' 47.8" (RT) Ds = 0° 42' 10.9" L = 765.27' LT = 240.01' T = 382.91' R = 8,150.00' e = NC		-Y2RPC- PIs Sta 18+85.27 Δs = 1° 15' 55.5" Ds = 360.00' L = 240.01' LT = 188.01' T = 94.01' R = 12,000.00' e = NC		-Y2RPC- PIs Sta 24+38.49 Δs = 1° 36' 56.7" Ds = 282.00' L = 188.01' LT = 94.01' T = 94.01' R = 12,000.00' e = NC	
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FOR NOISE WALL -NW3- DETAILS SEE SHEET 2N-1 & 2N-2
FOR -L- PROFILE SEE SHEET 13
FOR -Y2RPB- PROFILE SEE SHEET 19
FOR -Y2RPC- PROFILE SEE SHEET 20



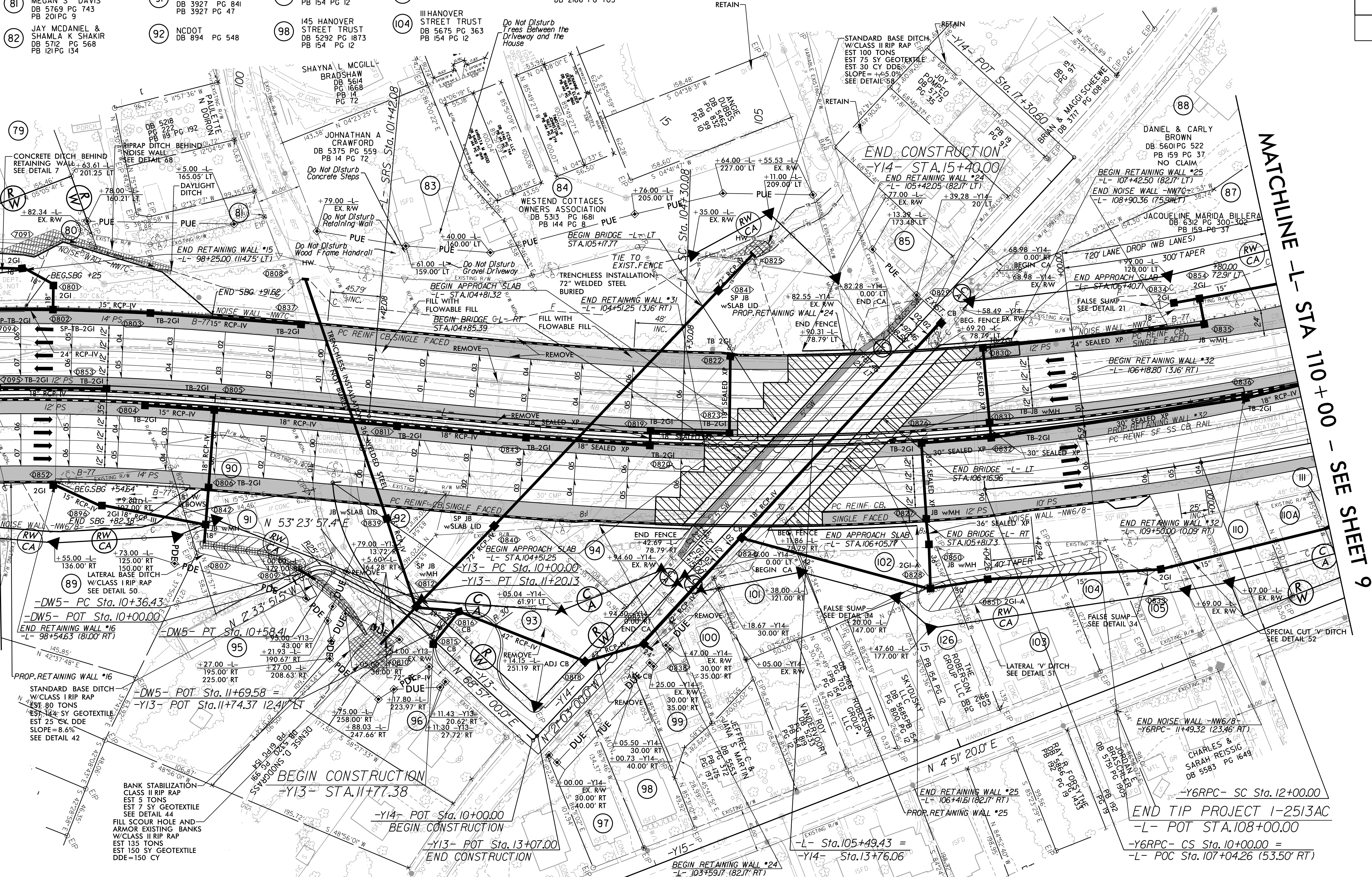
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REVISIONS

8/12/2026
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- | | | | | |
|---|---|---|---|--|
| (77) BRANDON KNOLLS, LLC
DB 3905 PG 462
PB 14 PG 72 | (85) GREEN DEVELOPMENT
DB 5334 PG 915
PB 19 PG 97 | (93) OSWALD D
PELAZ
DB 1021 PG 137
PB 35 PG 119 | (99) CAROLINE
ESCOBAR
DB 5491 PG 1294
PB 175 PG 197 | (105) 109 HANOVER
STREET TRUST
DB 5329 PG 1295
PB 154 PG 12 |
| (78) JOYCE B HICKS &
SAMMY HICKS III
DB 5815 PG 1228
PB 14 PG 72 | (86) JAMIE KNOX &
ZACHARY A KNOX
DB 5708 PG 872
PB 19 PG 97 | (94) STEPHEN ROBERT
PIERSON
PB 35 PG 119
DB 5206 PG 252 | (100) CHALMERS BROWN JR &
BETTY CHRESTMAN
DB 5877 PG 110
PB 175 PG 197 | (110) G&G INVESTMENT
PROPERTIES, LLC
DB 4728 PG 1887 |
| (79) TERESA MARIE DUTCHER
DB 1975 PG 719
PB 14 PG 72 | (89) HALYNA SHAW &
YVONNE L KOKASKA
DB 5753 PG 582
PB 109 PG 5 | (95) JAMES H &
JOAN A BROOKS
DB 1496 PG 379
PB 29 PG 47 | (101) ANDREW Y &
KARA SMITH
DB 5310 PG 1865
PB 154 PG 12 | (110A) G&G INVESTMENT
PROPERTIES, LLC
DB 3247 PG 705 |
| (80) N. C. STATE
HWY. COMMISSION
DB 1022 PG 126
DB 91 PG 31 | (90) CHRISTOPHER
VETRO ZIN
DB 5608 PG 255
PB 184 PG 23 | (96) CARL J JUSTICE
DB 1816 PG 39
PB 14 PG 72 | (102) BUNCOMBE COUNTY
DB 3179 PG 757
PB 154 PG 12 | (III) CECIL E &
MARIE W SPARKS
DB 830 PG 459 |
| (81) ERIC M &
MEGAN S DAVIS
DB 5769 PG 743
PB 20 PG 9 | (91) KRZYANEK
PROPERTIES LLC
DB 3927 PG 841
PB 3927 PG 47 | (97) WILLIAM D. GRADY
DB 5550 PG 624
PB 154 PG 12 | (103) PATMO LLC
PB 154 PG 12 | (126) THE ROBERSON
GROUP LLC
DB 2166 PG 703 |
| (82) JAY MCDANIEL &
SHAMLA K SHAKIR
DB 5712 PG 568
PB 12 PG 134 | (92) NCDOT
DB 894 PG 548 | (98) 145 HANOVER
STREET TRUST
DB 5292 PG 1873
PB 154 PG 12 | (104) III HANOVER
STREET TRUST
DB 5675 PG 363
PB 154 PG 12 | |

MATCHLINE -L- STA 98+00 - SEE SHEET 7



MATCHLINE -L- STA 110+00 - SEE SHEET 9

PROJECT REFERENCE NO.		SHEET NO.	
I-2513AC		8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM			
NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28217 (919) 854-6200 • (919) 854-6259 (FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

- L-
Pls Sta 99+10.23
Θs = 6° 30' 57.6"
Ls = 348.00'
LT = 232.16'
ST = 116.14'
- Pls Sta 103+34.12
Θs = 3° 30' 22.6"
Ls = 288.00'
LT = 192.04'
ST = 96.04'
- Pl Sta 108+17.41
Δ = 18° 57' 22.4" (LT)
D = 2° 28' 10.7"
L = 767.57'
T = 387.32'
R = 2,320.00'
e = 6.07'
RUNOFF = 96.0'
- Y13-
Pl Sta 10+63.05
Δ = 43° 01' 04.8" (LT)
D = 35° 48' 35.5"
L = 120.13'
T = 63.05'
R = 160.00'
- DW5-
Pl Sta 10+48.38
Δ = 55° 57' 48.9" (RT)
D = 254° 38' 52.5"
L = 2198'
T = 1195'
R = 22.50'
- Y6RPC-
Pls Sta 10+94.60
Θs = 1° 44' 10.3"
Θs = 2° 24' 50.4"
LT = 200.00'
ST = 94.60'
- Pl Sta 13+99.87
Δ = 6° 55' 54.9" (LT)
D = 1° 44' 10.4"
L = 399.25'
T = 199.87'
R = 3,300.00'
e = 4.07'
RUNOFF = 100.0'

FOR NOISE WALL -NW7C- DETAILS SEE SHEET 2N-7 & 2N-8
FOR NOISE WALL -NW6/8- DETAILS SEE SHEET 2N-9 & 2N-10

FOR -L- PROFILE SEE SHEET 16
FOR -Y3RPA- PROFILE SEE SHEET 25
FOR -Y6RPC- PROFILE SEE SHEET 27
FOR -Y13- PROFILE SEE SHEET 28
FOR -Y14- PROFILE SEE SHEET 28

5/14/99

- (106) BIG FISH LITTLE POND, LLC
DB 3457 PG 504
- (107) CAROLE & MARK A WATTS
DB 4325 PG 915
PB 13 PG 31
- (108) CAROL MORLEY HIGGINS
DB 4445 PG 1635
- (111) CECIL E & MARIE W SPARKS
DB 830 PG 459
- (112) TERRY L. SIMMONS
DB 4145 PG 270
- (113) NC DOT
DB 2500 PG 870
PB 2 PG 47
- (114) GFFAC HOLDINGS LLC
DB 5525 PG 1234
PB 2 PG 47
- (115) TOBIAS A & LAURA WEAS
DB 5681 PG 1275
- (116) THE ROBERSON GROUP LLC
DB 2166 PG 703
- (117) OSWALD CARLOS PELAEZ JR & PEDRO LUIS PELAEZ
DB 3616 PG 163
PB 33 PG 41
- (118) TERRY L & ANDREA D SIMMONS
DB 4018 PG 84
PB 33 PG 41
- (119) PATRICIA A WILLIAMS
DB 1260 PG 470
- (120) N. C. STATE HIGHWAY COMMISSION
DB 911PG 169
- (122) 462 HAYWOOD LLC
DB 5384 PG 247
- (123) MICHAEL D SILVER ET AL
DB 1462 PG 61
DB 1261 PG 63
DB 1261 PG 67
- (157) SAW VENTURES HARDWOOD II LLC
DB 5052 PG 1233
DB 134 PG 173

- (158) ASHEVILLE CITY BOARD OF EDUCATION
DB 414 PG 109
DB 716 PG 256
DB 719 PG 482
DB 742 PG 429
DB 901PG 555 (R/W)
DB 1358 PG 132
DB 1369 PG 358

-Y6RPC-

Pls Sta 10+94.60
 $\Delta s = 1' 44" 10.3"$
 $\Delta s = 2' 24' 50.4"$
 $L = 200.00'$
 $LT = 105.49'$
 $ST = 94.60'$

Pls Sta 13+99.87
 $\Delta = 6' 55' 54.9" (LT)$
 $D = 1' 44' 10.4"$
 $L = 399.25'$
 $R = 199.87'$
 $T = 3,300.00'$
 $e = 4.0\%$
 $RUNOFF = 100.0'$

Pls Sta 16+82.47
 $\Delta s = 0' 34' 22.6"$
 $\Delta s = 1' 44' 10.5"$
 $L = 200.00'$
 $LT = 116.81'$
 $ST = 83.22'$

Pls Sta 20+97.46
 $\Delta = 3' 24' 58.4" (LT)$
 $D = 0' 34' 22.6"$
 $L = 596.24'$
 $T = 298.21'$
 $R = 10,000.00'$
 $e = N.C.$

Pls Sta 25+21.17
 $\Delta = 3' 17' 38.9" (RT)$
 $D = 5' 21' 17.1"$
 $L = 61.52'$
 $T = 30.77'$
 $R = 1,070.00'$
 $e = 4\%$

-L-

Pls Sta 108+17.41
 $\Delta = 18' 57' 22.4" (LT)$
 $D = 2' 28' 10.7"$
 $L = 767.57'$
 $T = 387.32'$
 $R = 2,320.00'$
 $e = 6.0\%$
 $RUNOFF = 96.0'$

Pls Sta 112+93.69
 $\Delta s = 3' 33' 22.6"$
 $L = 288.00'$
 $LT = 192.04'$
 $ST = 96.04'$

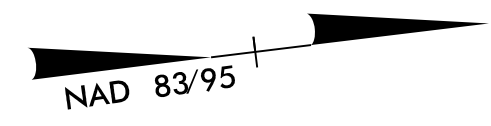
Pls Sta 118+89.27
 $\Delta = 1' 35' 34.6" (RT)$
 $D = 0' 22' 55.1"$
 $L = 417.03'$
 $T = 208.53'$
 $R = 15,000.00'$
 $e = NC$

-Y6-

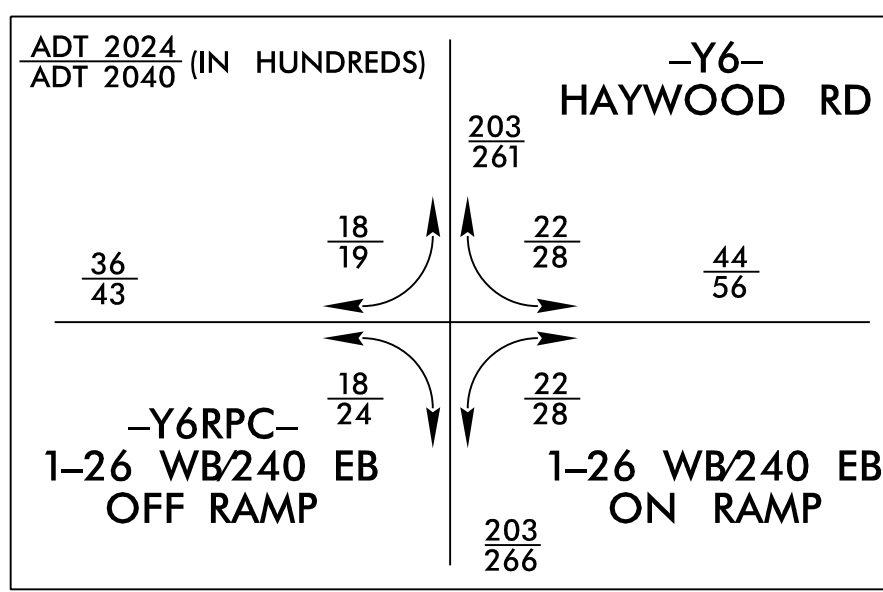
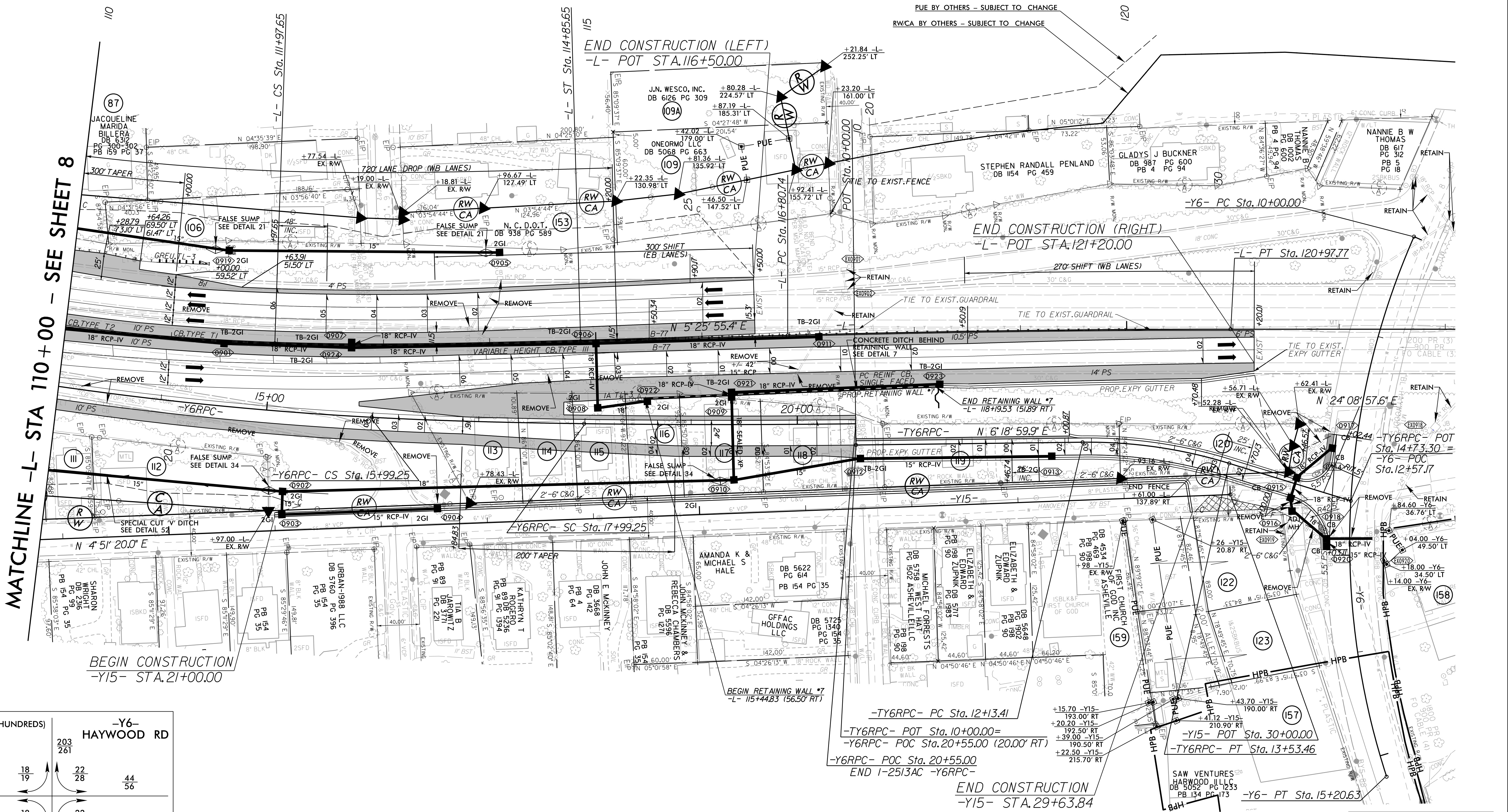
Pls Sta 12+72.42
 $\Delta = 41' 39' 00.0" (LT)$
 $D = 8' 00' 00.0"$
 $L = 520.63'$
 $T = 272.42'$
 $R = 716.20'$

-TY6RPC-

Pls Sta 12+84.01
 $\Delta = 17' 49' 57.8" (RT)$
 $D = 12' 43' 56.6"$
 $L = 140.06'$
 $T = 70.60'$
 $R = 450.00'$
 $e = 4.0\%$

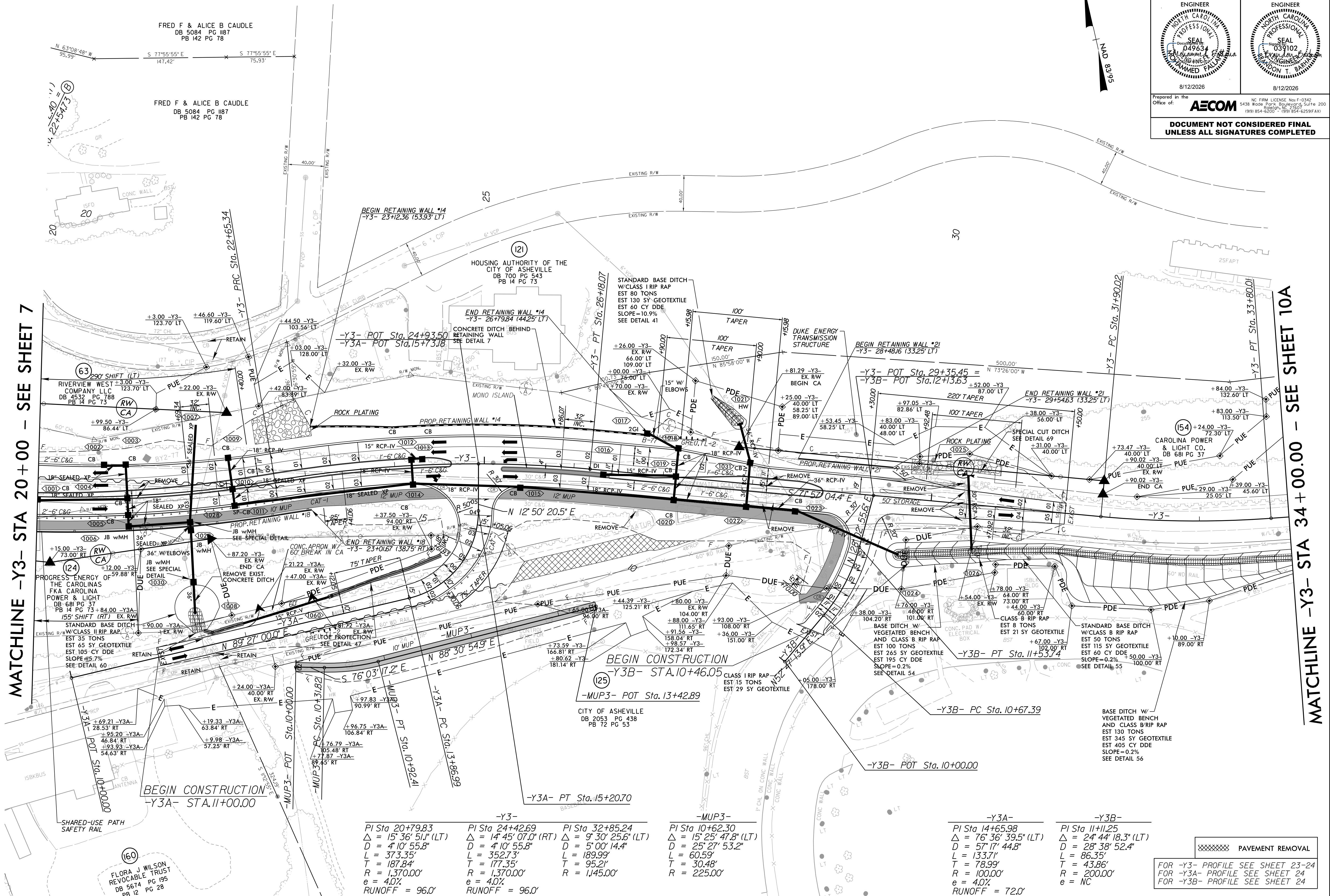


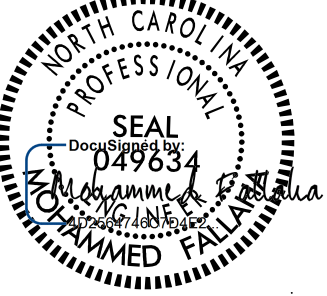
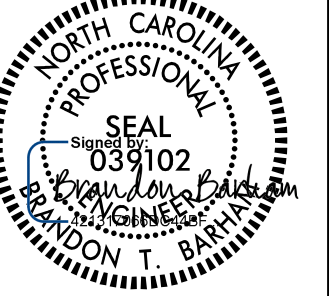
PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
8/12/2026		8/12/2026	
Prepared in the Office of:		NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28217 (919) 854-6200 • (919) 854-6259 (FAX)	
AECOM			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

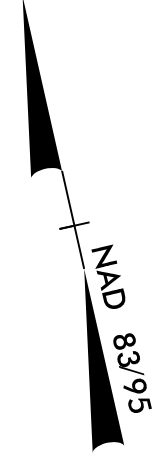


FOR -L- PROFILE SEE SHEET 16
FOR -Y6- PROFILE SEE SHEET 26
FOR -Y6RPC- PROFILE SEE SHEET 27

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Mohammed El Lab



PROJECT REFERENCE NO.		SHEET NO.	
1-2513AC		10A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6258(FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -Y3- STA 34+00.00 - SEE SHEET 10



CITY LIMITS = EDGE OF RIVER

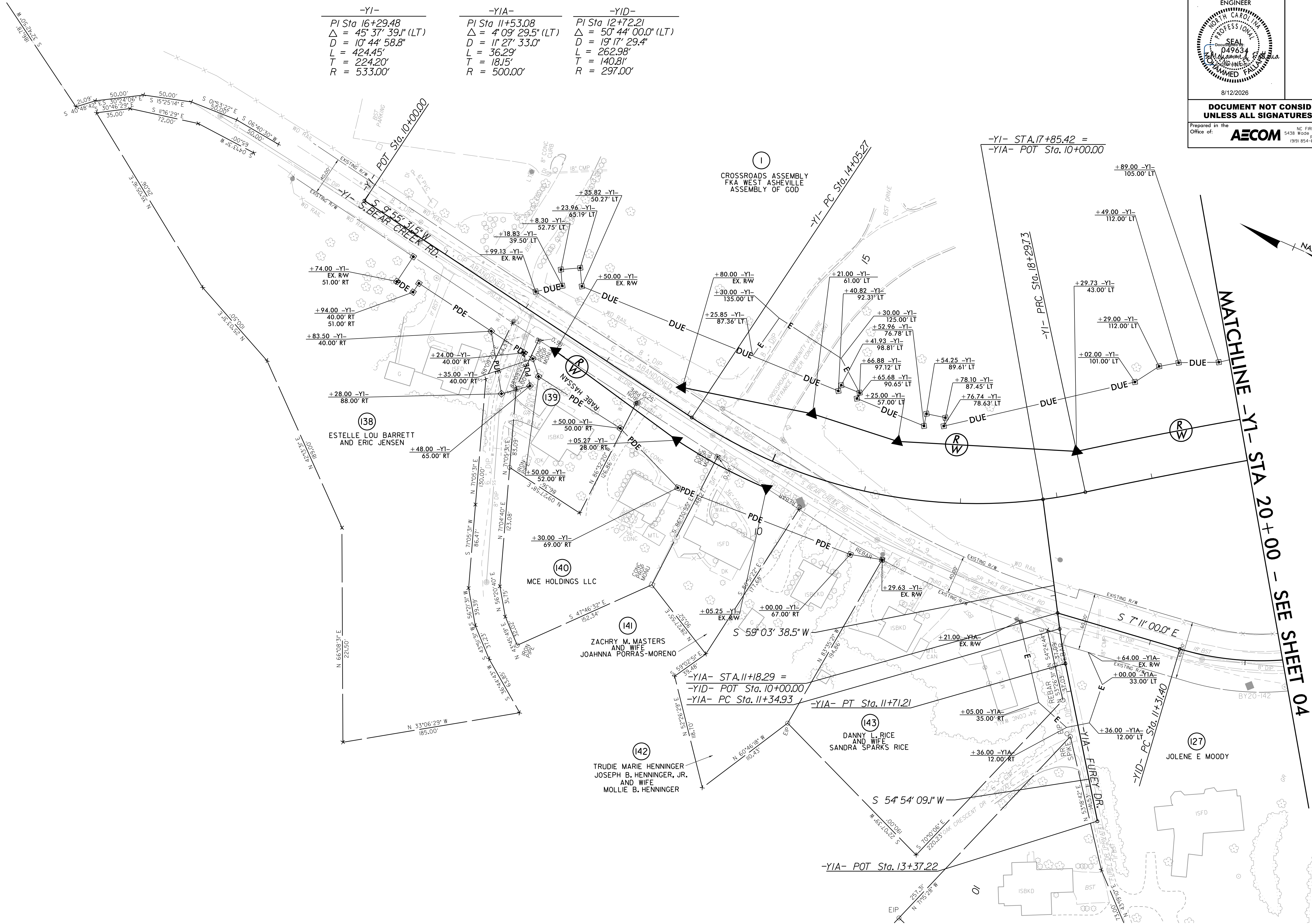
REVISIONS

8/5/2026 C_rdy_psh_10A.dgn
mohammed@alltel.net

5/14/99

REVISIONS

8/6/2026
1-25/3AC_rdy_psh.11.dgn
mohammed.rahman



-YI-	-YIA-	-YID-
PI Sta 16+29.48	PI Sta 11+53.08	PI Sta 12+72.21
$\Delta = 45^{\circ} 37' 39.1''$ (LT)	$\Delta = 4^{\circ} 09' 29.5''$ (LT)	$\Delta = 50^{\circ} 44' 00.0''$ (LT)
D = 10' 44' 58.8"	D = 11' 27' 33.0"	D = 19' 17' 29.4"
L = 424.45'	L = 36.29'	L = 262.98'
T = 224.20'	T = 18.15'	T = 140.81'
R = 533.00'	R = 500.00'	R = 297.00'

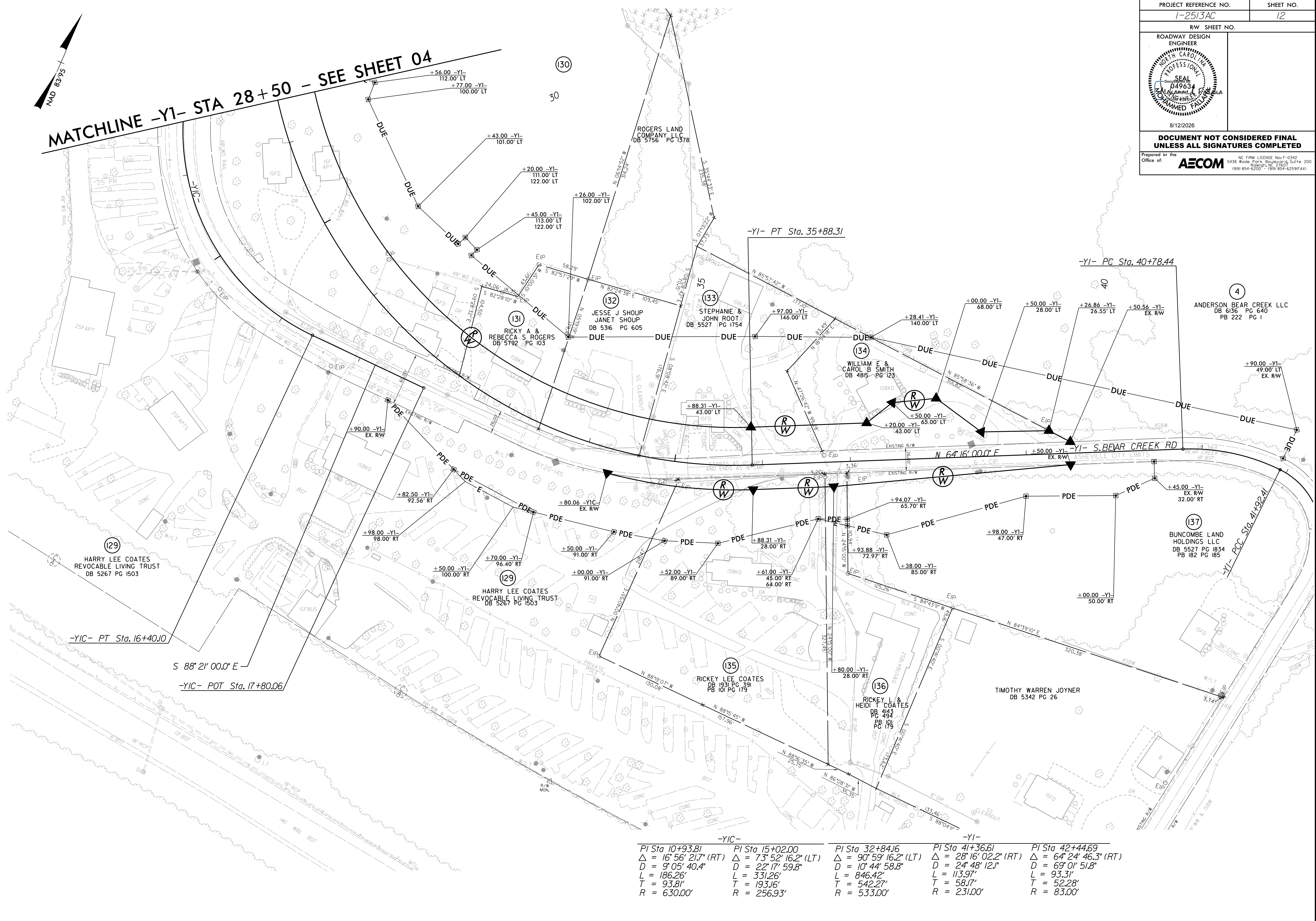
PROJECT REFERENCE NO.		SHEET NO.
1-25/3AC		11
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		SEAL 049634 J. J. JAMES JULY 1998 NORTH CAROLINA PROFESSIONAL ENGINEER
8/12/2026		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)		

5/14/2026

REVISIONS

8/6/2026
12513AC-rdy-psh_12.dgn
muhammad.falaha

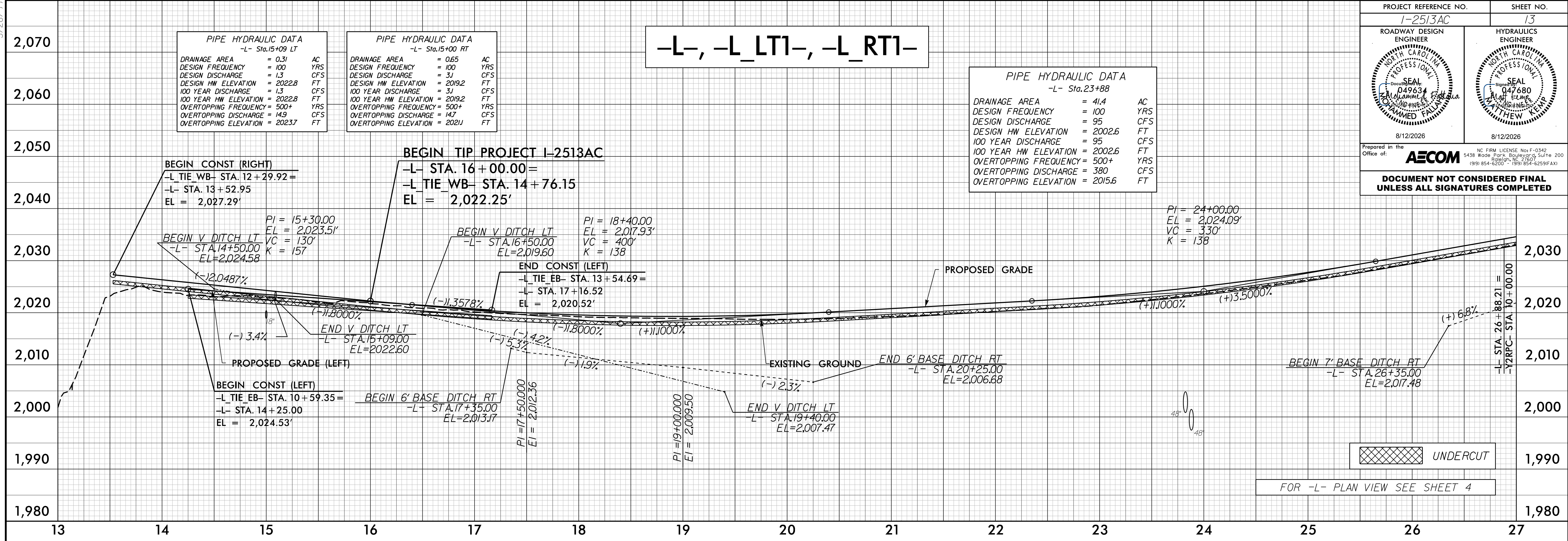
MATCHLINE -Y1- STA 28+50 - SEE SHEET 04



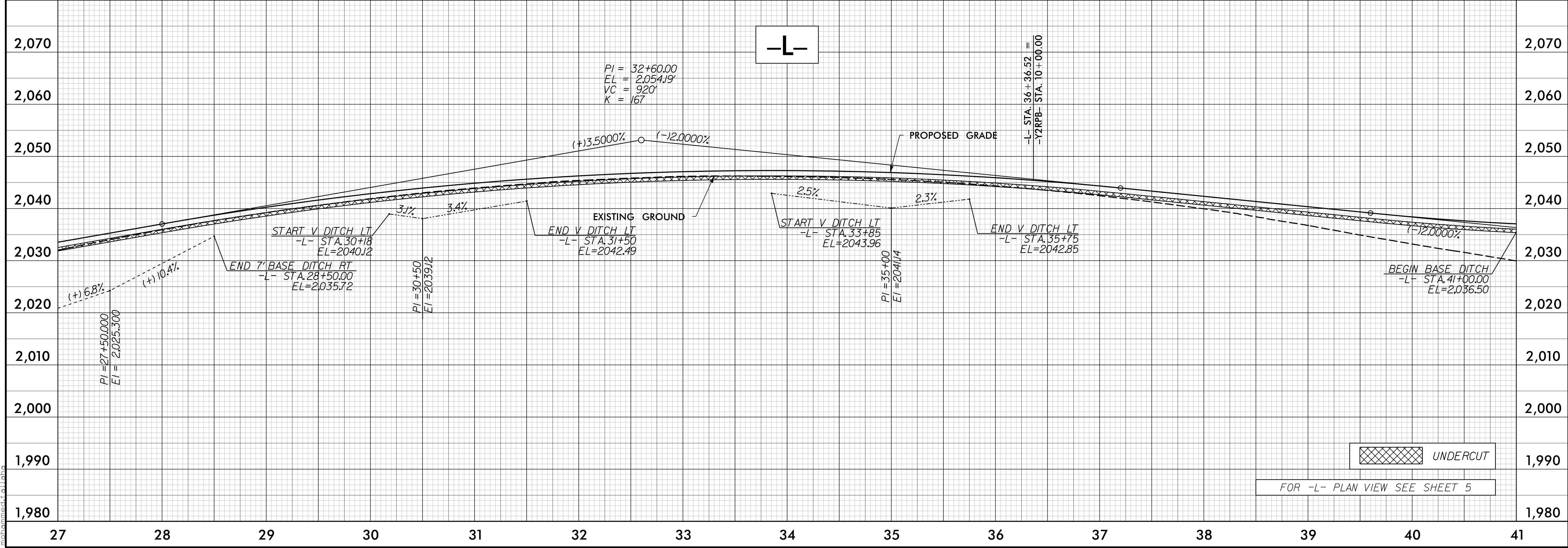
PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 12
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		
8/12/2026		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wood Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)		

PI Sta 10+93.81 Δ = 16' 56" 21.7" (RT) D = 9' 05' 40.4" L = 186.26' T = 93.81' R = 630.00'	PI Sta 15+02.00 Δ = 73' 52" 16.2" (LT) D = 22' 17' 59.8" L = 331.26' T = 193.16' R = 256.93'	PI Sta 32+84.16 Δ = 90' 59' 16.2" (LT) D = 10' 44' 58.8" L = 846.42' T = 542.27' R = 533.00'	PI Sta 41+36.61 Δ = 28' 16' 02.2" (RT) D = 24' 48' 12.1" L = 113.97' T = 58.17' R = 231.00'	PI Sta 42+44.69 Δ = 64' 24' 46.3" (RT) D = 69' 01' 51.8" L = 93.31' T = 52.28' R = 83.00'
---	---	---	--	--

5/28/2026

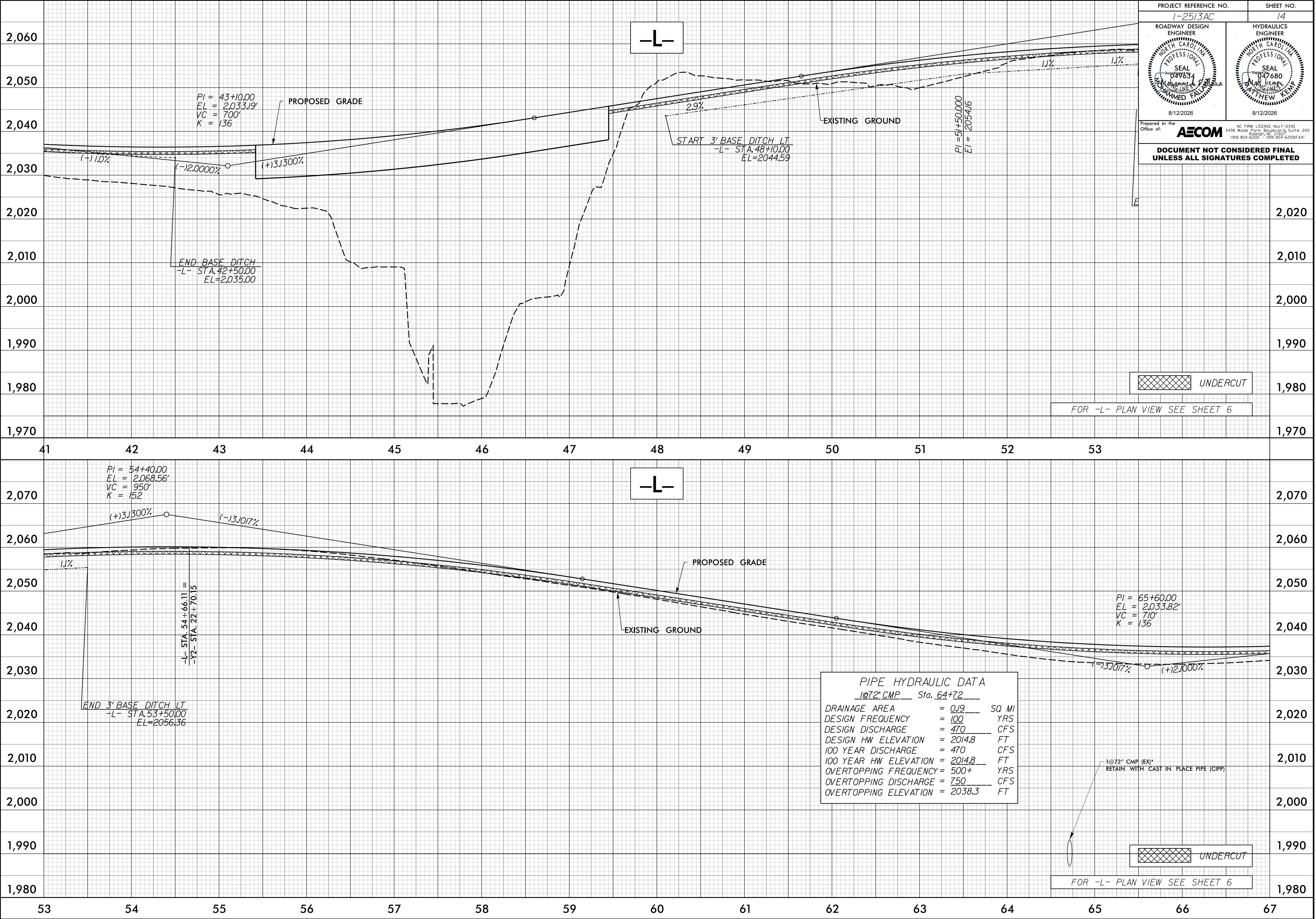


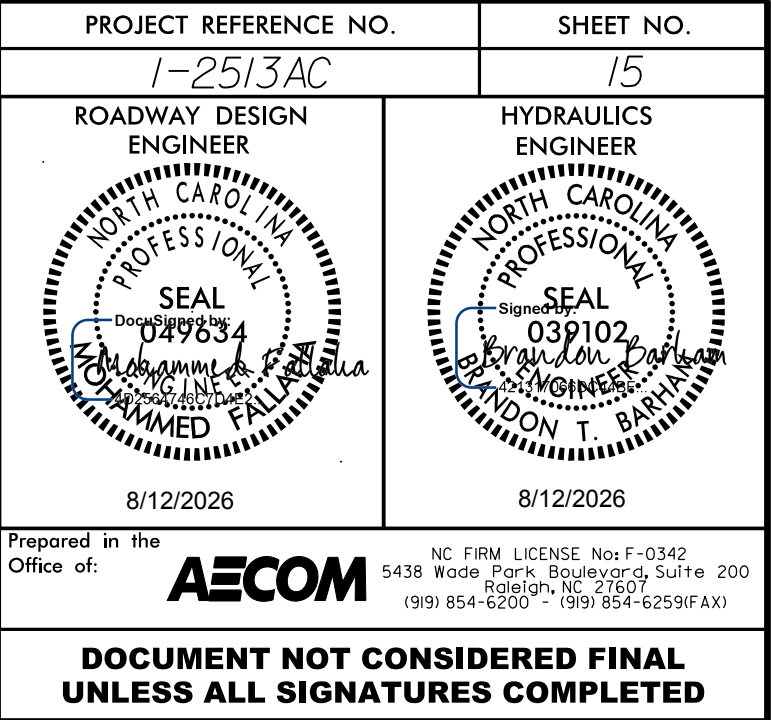
7/13/2026
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Mohammed Fallaha

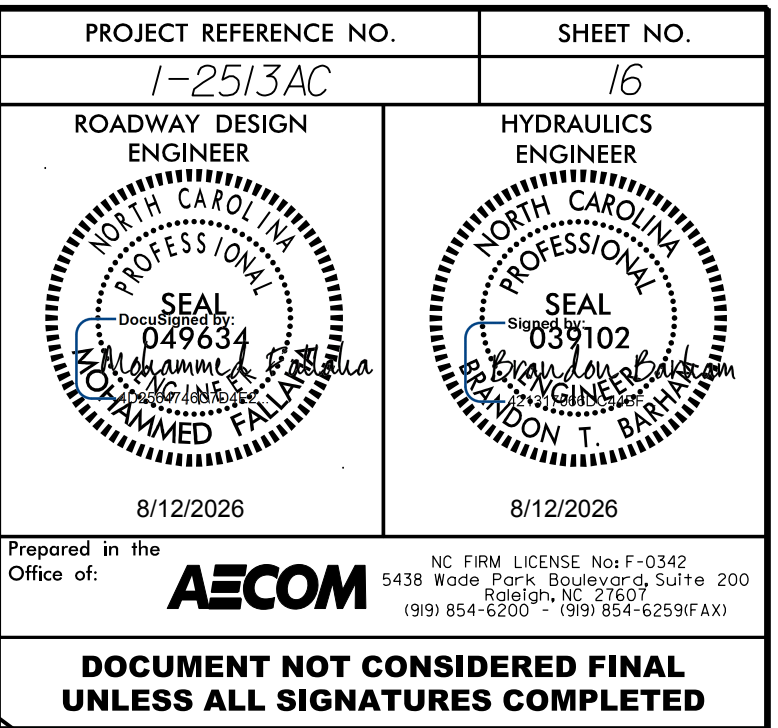


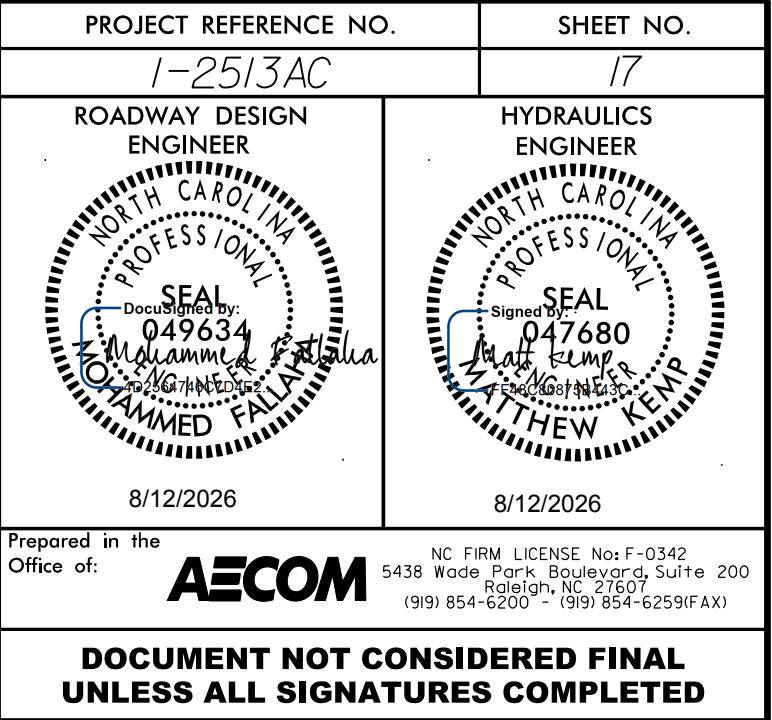
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7/13/2026
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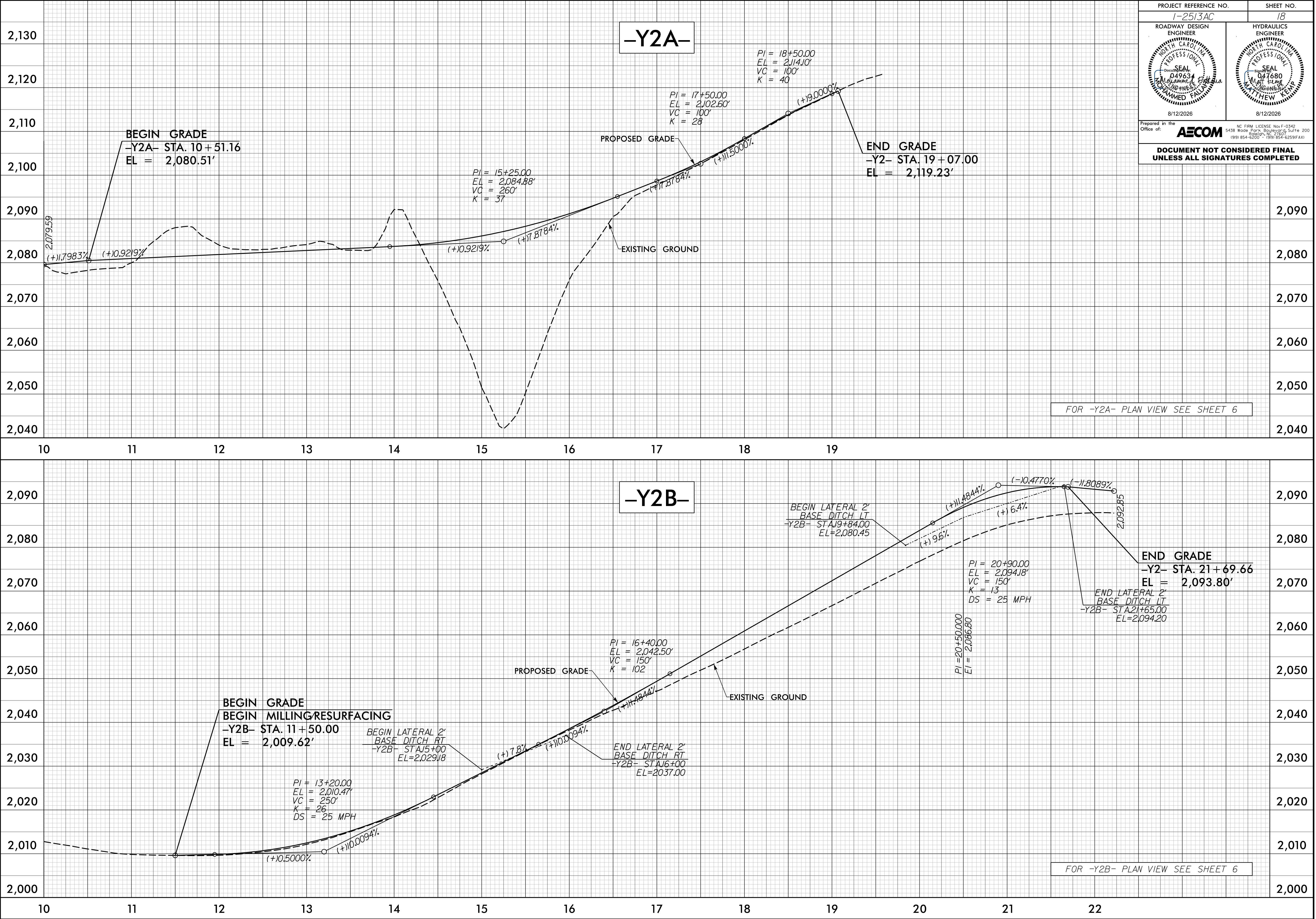




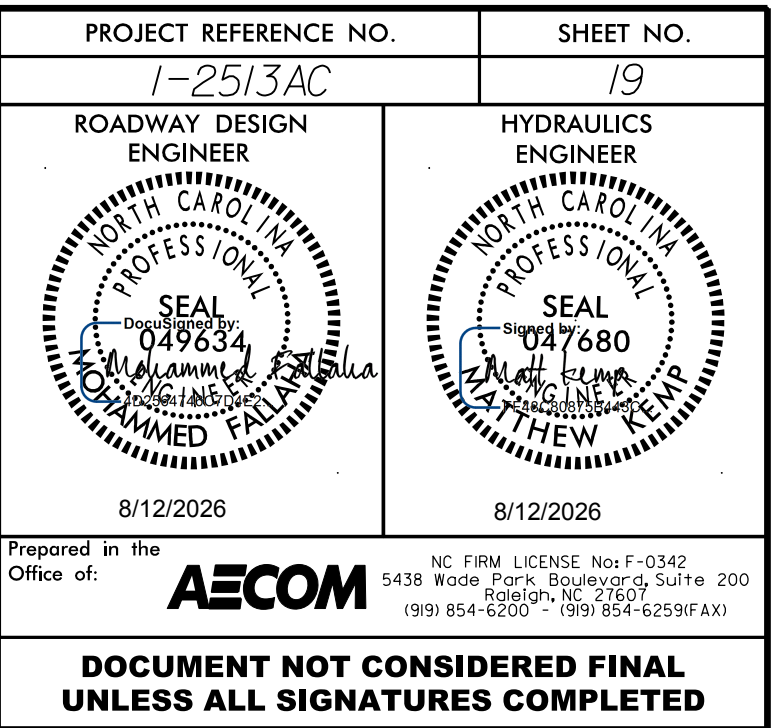


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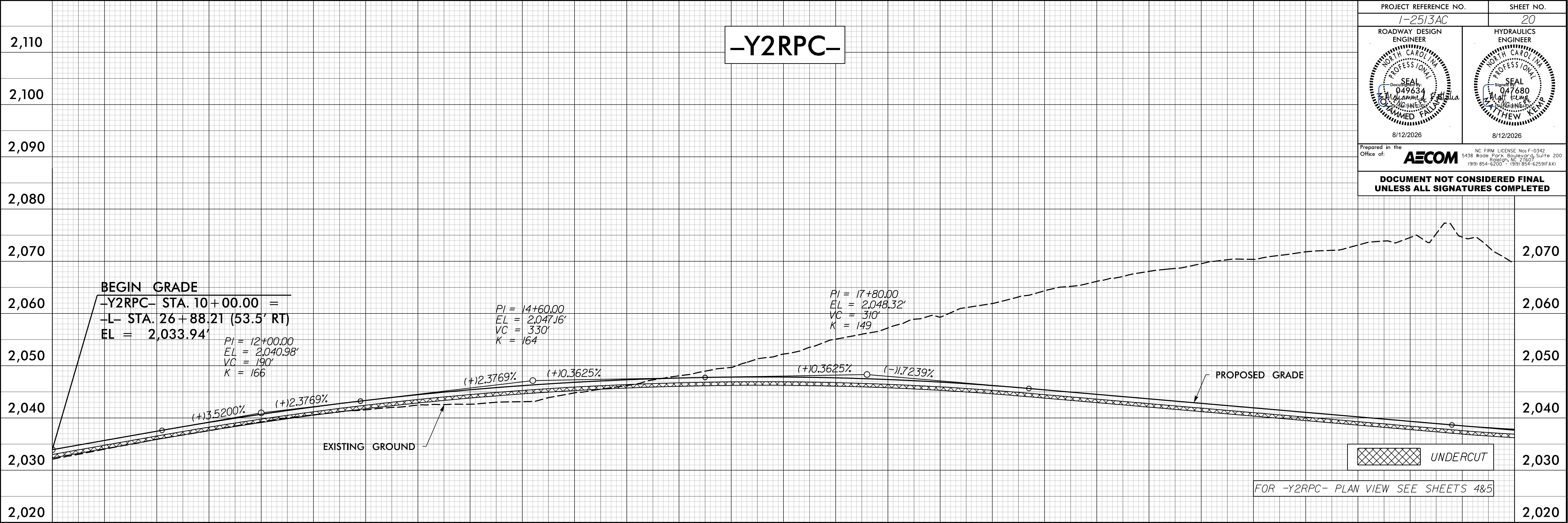
7/13/2026
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Mohammed Fallah



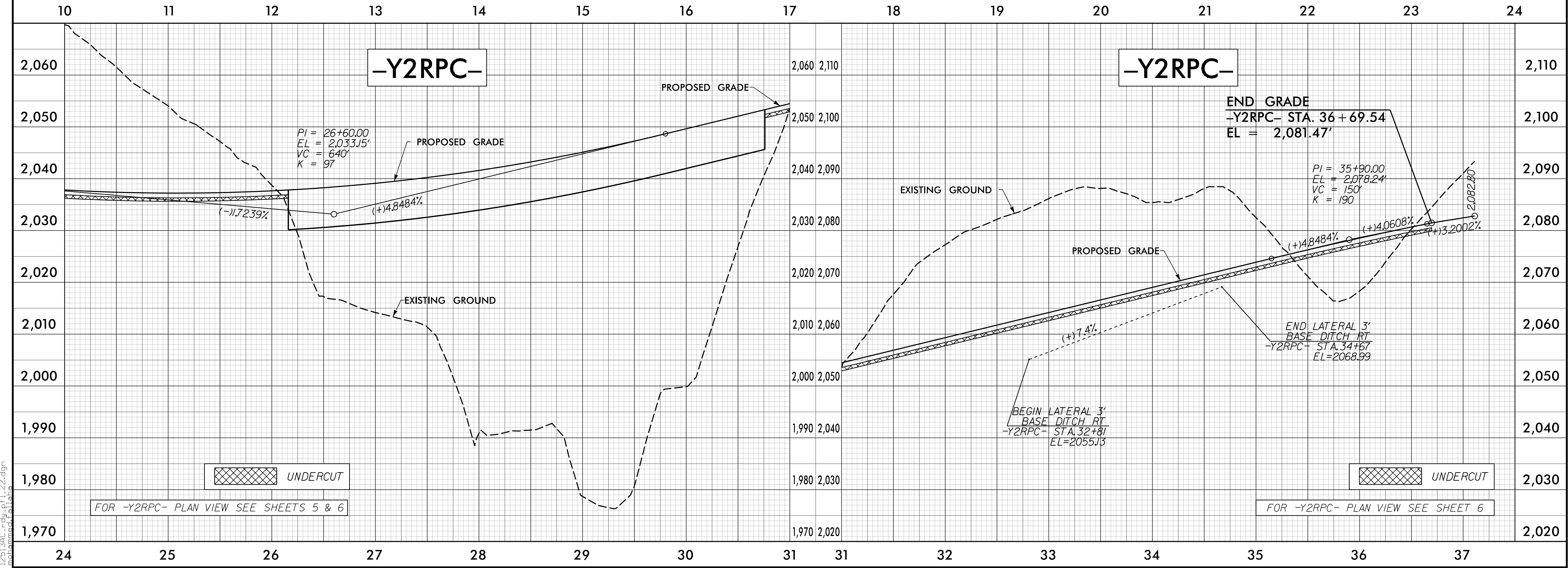
PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 18
ROADWAY DESIGN ENGINEER 8/12/2026	HYDRAULICS ENGINEER 8/12/2026	
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28207 (919) 854-6000 • (919) 854-6259 (FAX)		
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5/28/24

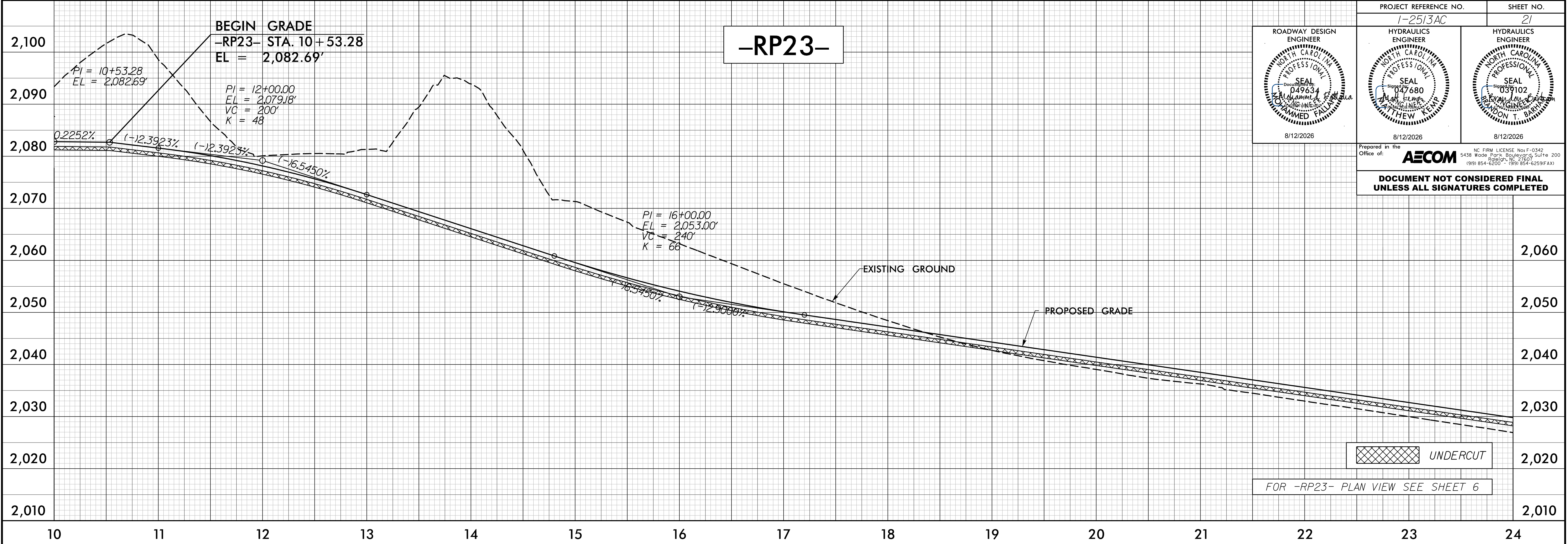


PROJECT REFERENCE NO.		SHEET NO.
I-2513AC		20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		
NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6258 (FAX)		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



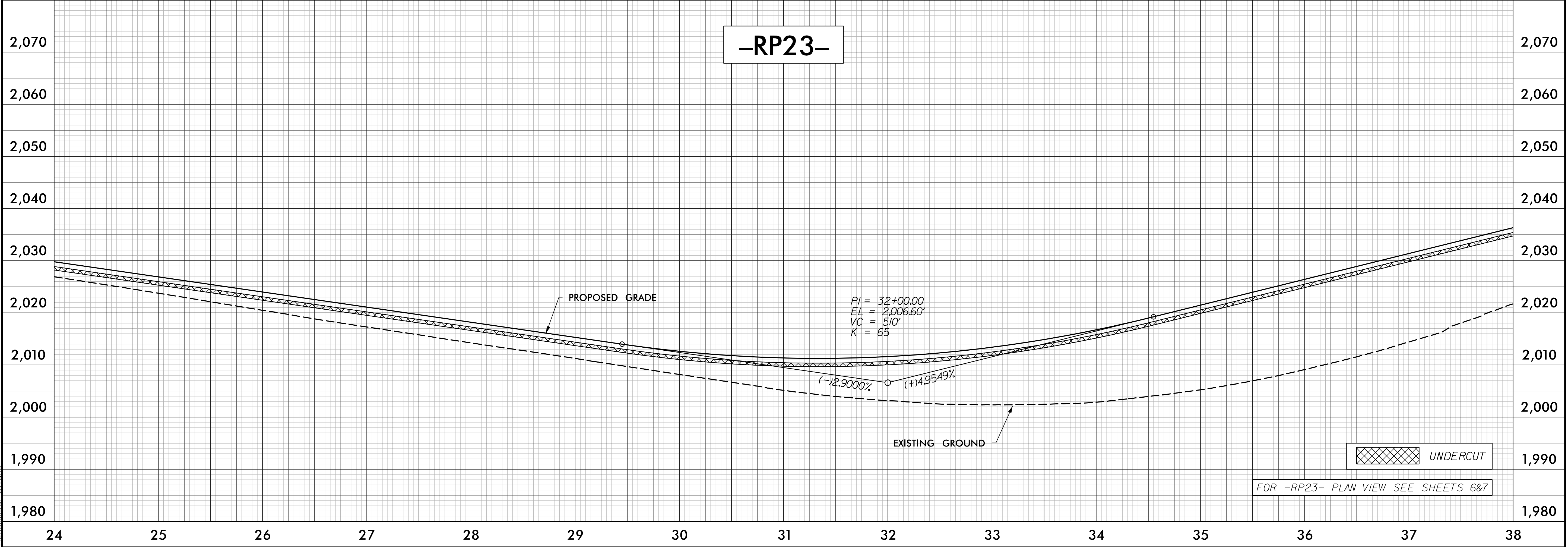
7/13/2026
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Mohammed F. Al-Falali

5/28/99

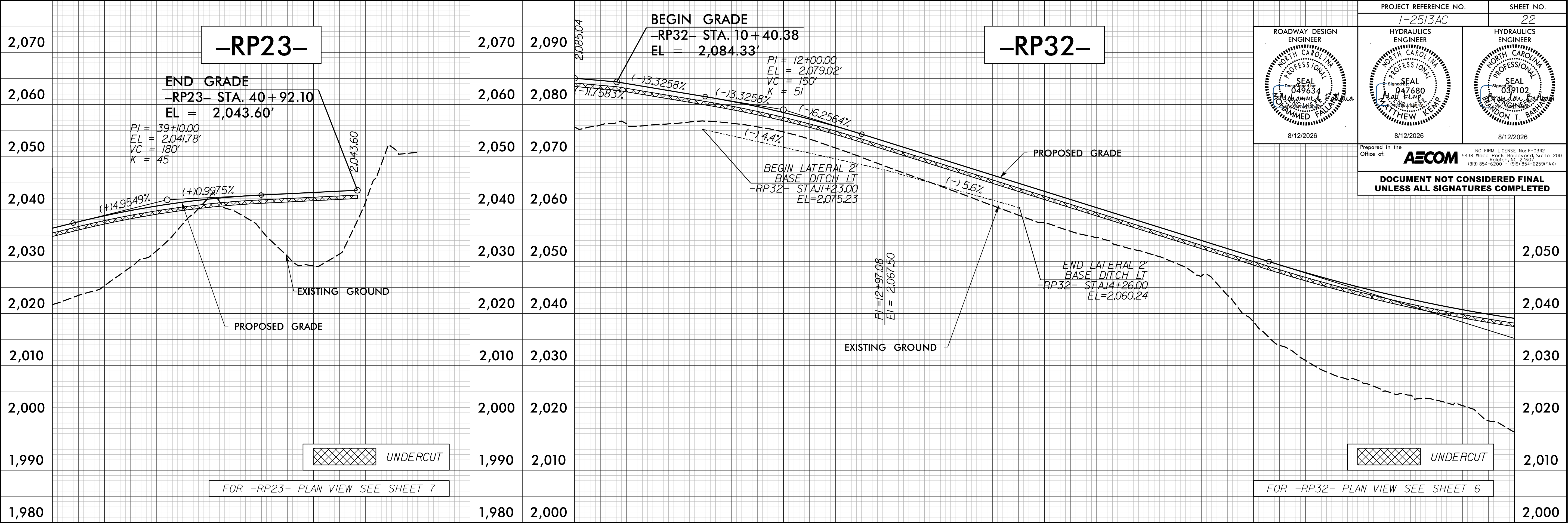


PROJECT REFERENCE NO.		SHEET NO.
I-25/3AC		21
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28207 (919) 854-6000 • (919) 854-6259 (Fax)		
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mohammed.f.aljabbar



5/28/2026



PROJECT REFERENCE NO.
1-2513AC

SHEET NO.
22

ROADWAY DESIGN
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
049834
MOHAMMED FALLAH

HYDRAULICS
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
047680
MATTHEW KEMP

HYDRAULICS
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
039102
ADON T. BARNES

8/12/2026

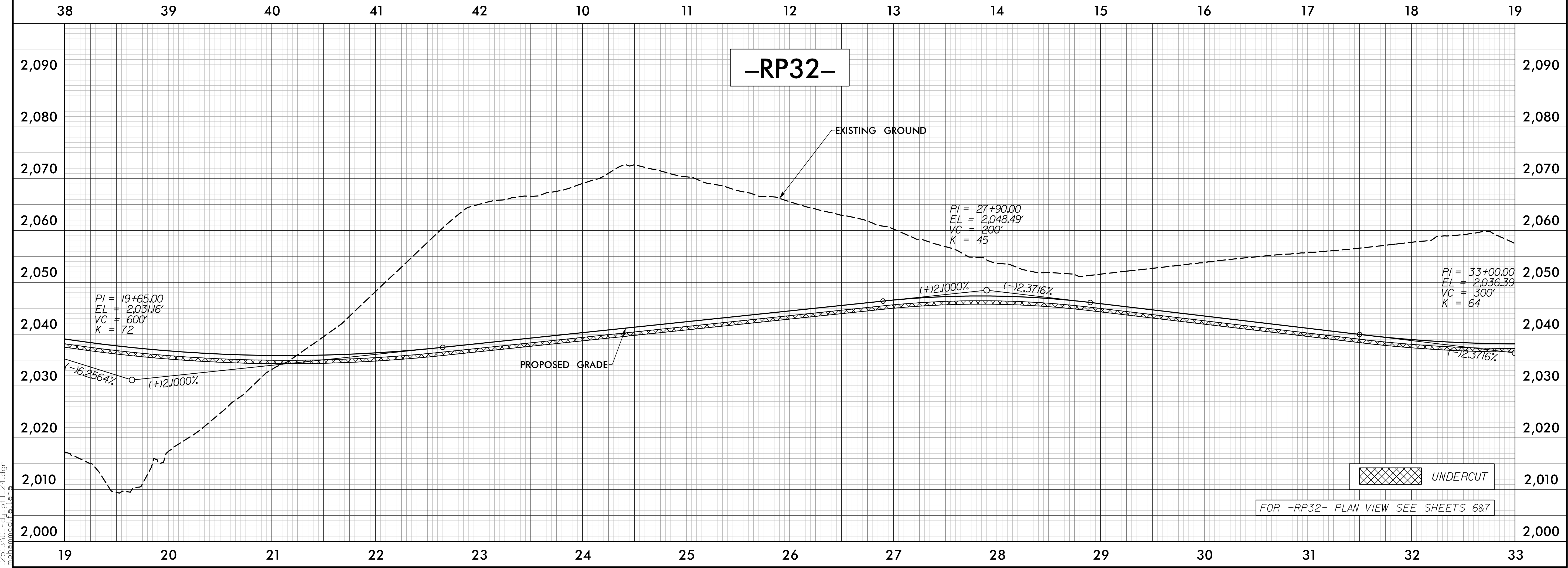
8/12/2026

8/12/2026

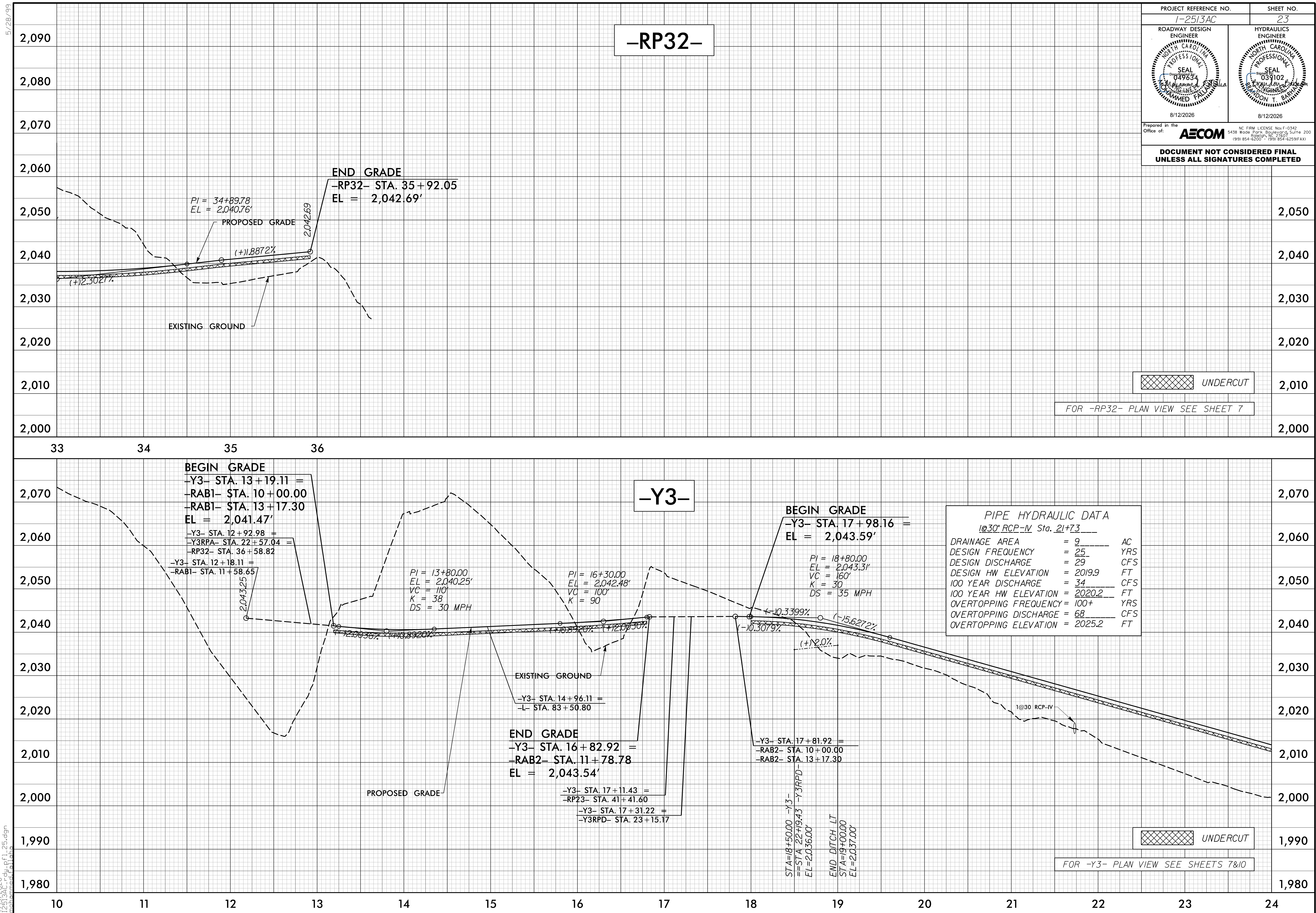
Prepared in the
Office of:
AECOM

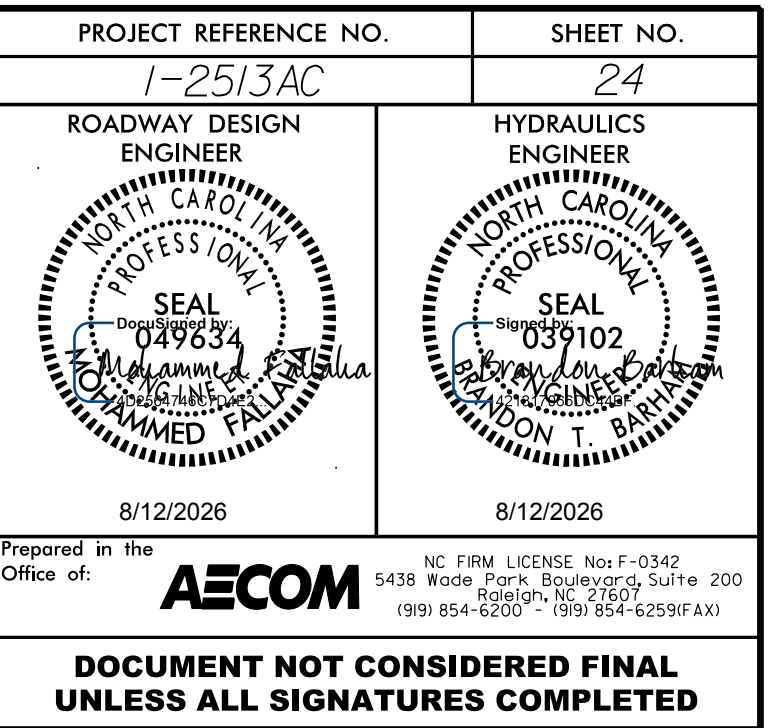
NC FIRM LICENSE No: F-0342
5438 Wade Park Boulevard, Suite 200
Charlotte, NC 28207
(919) 854-6000 / (919) 854-6259 (EXT.)

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

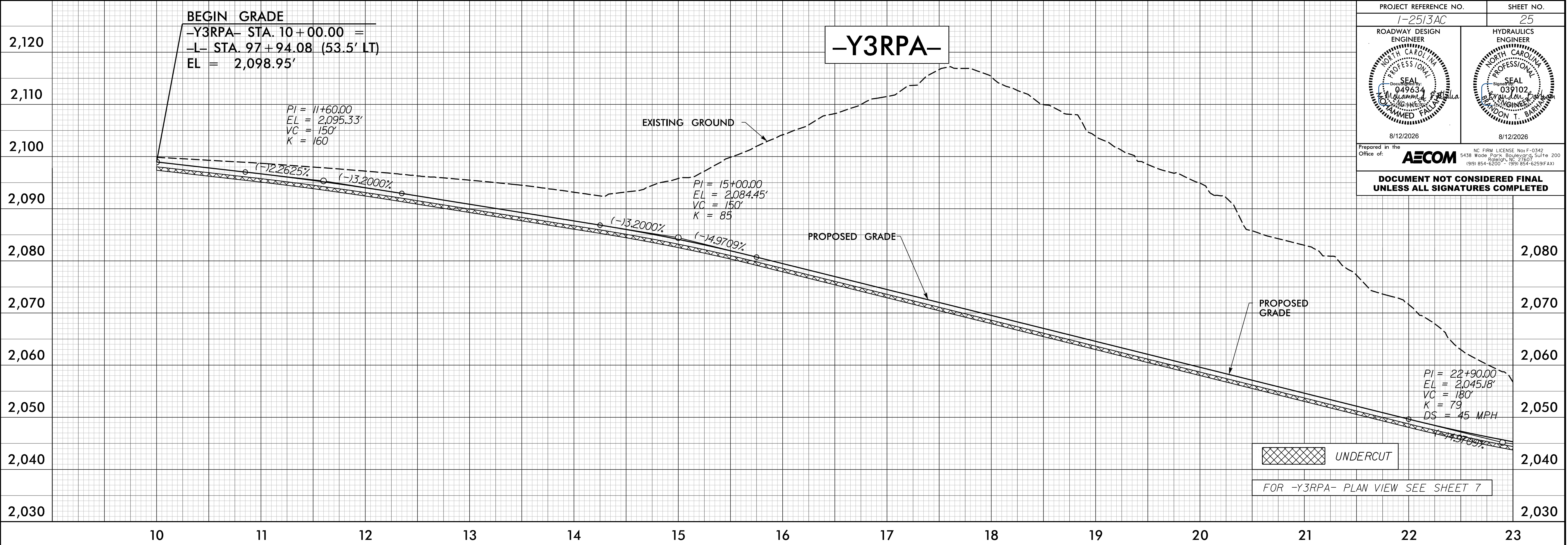


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mohammed.fallah

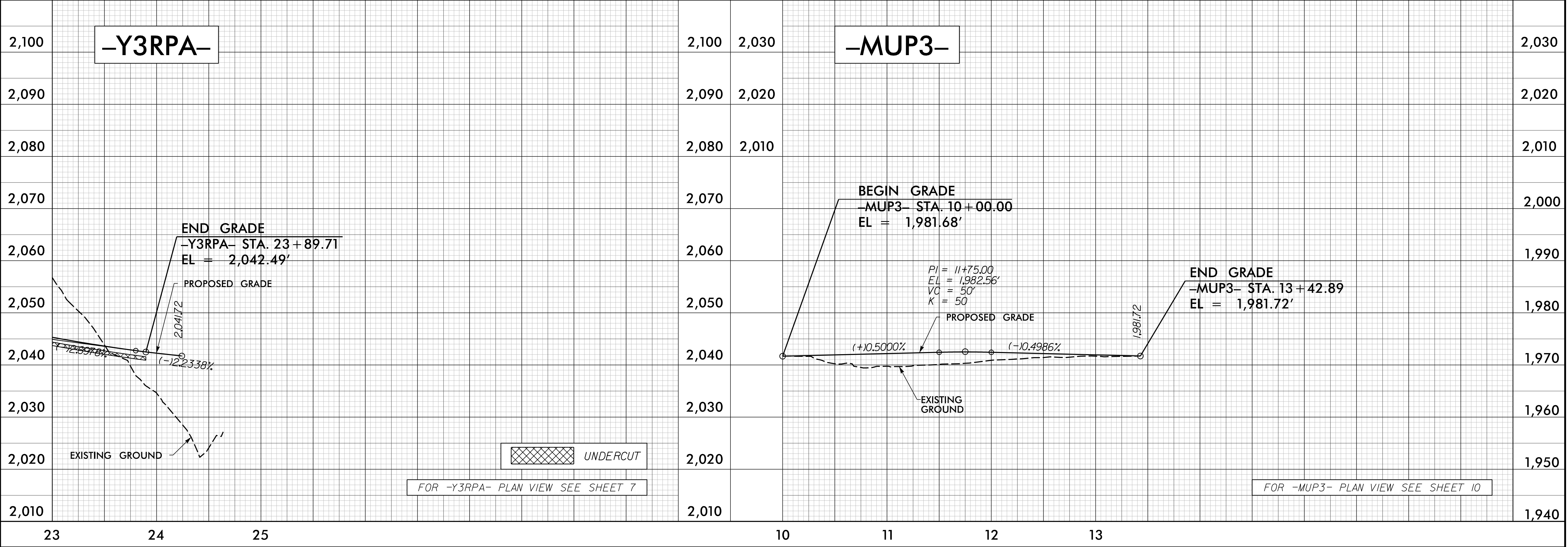


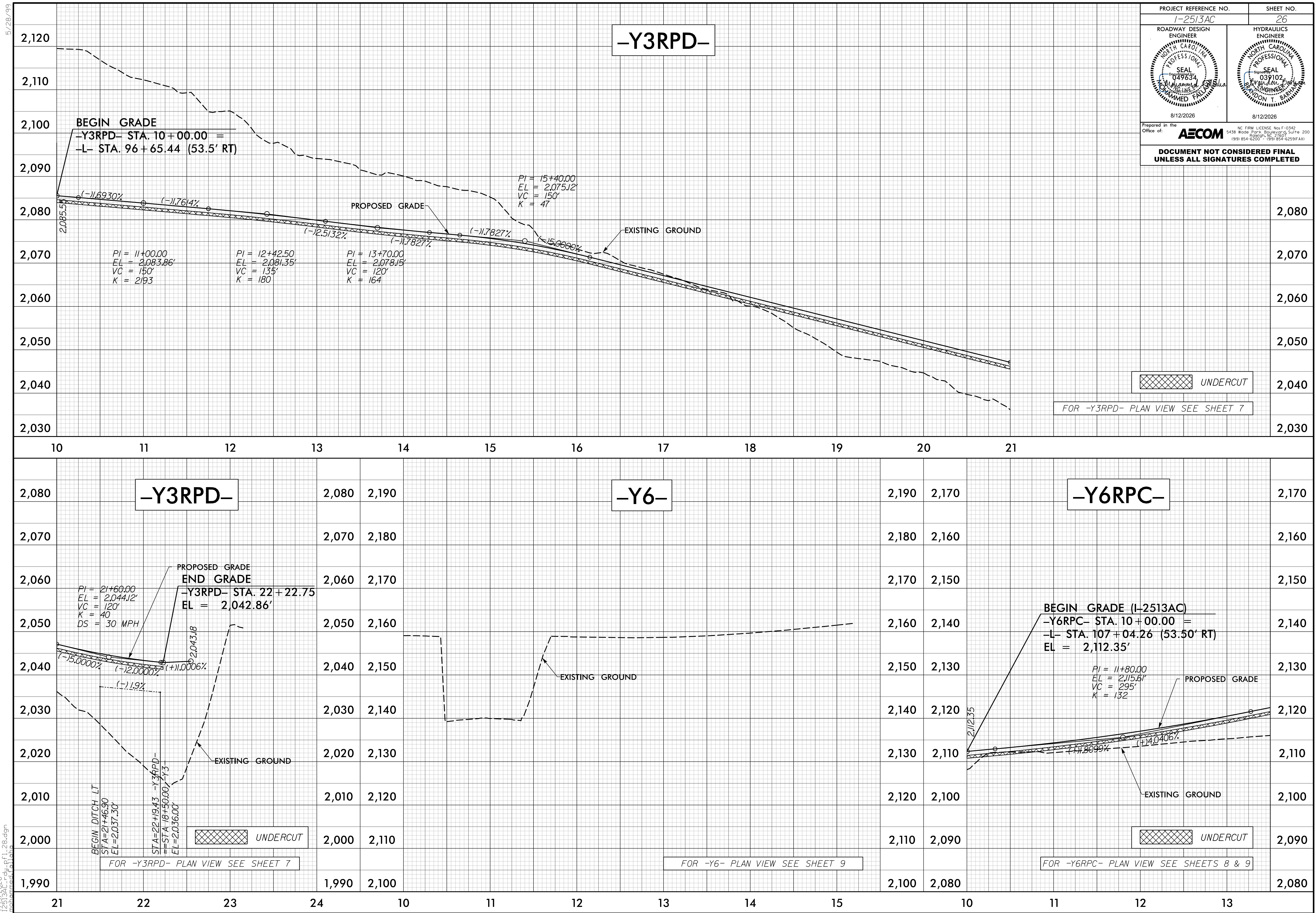


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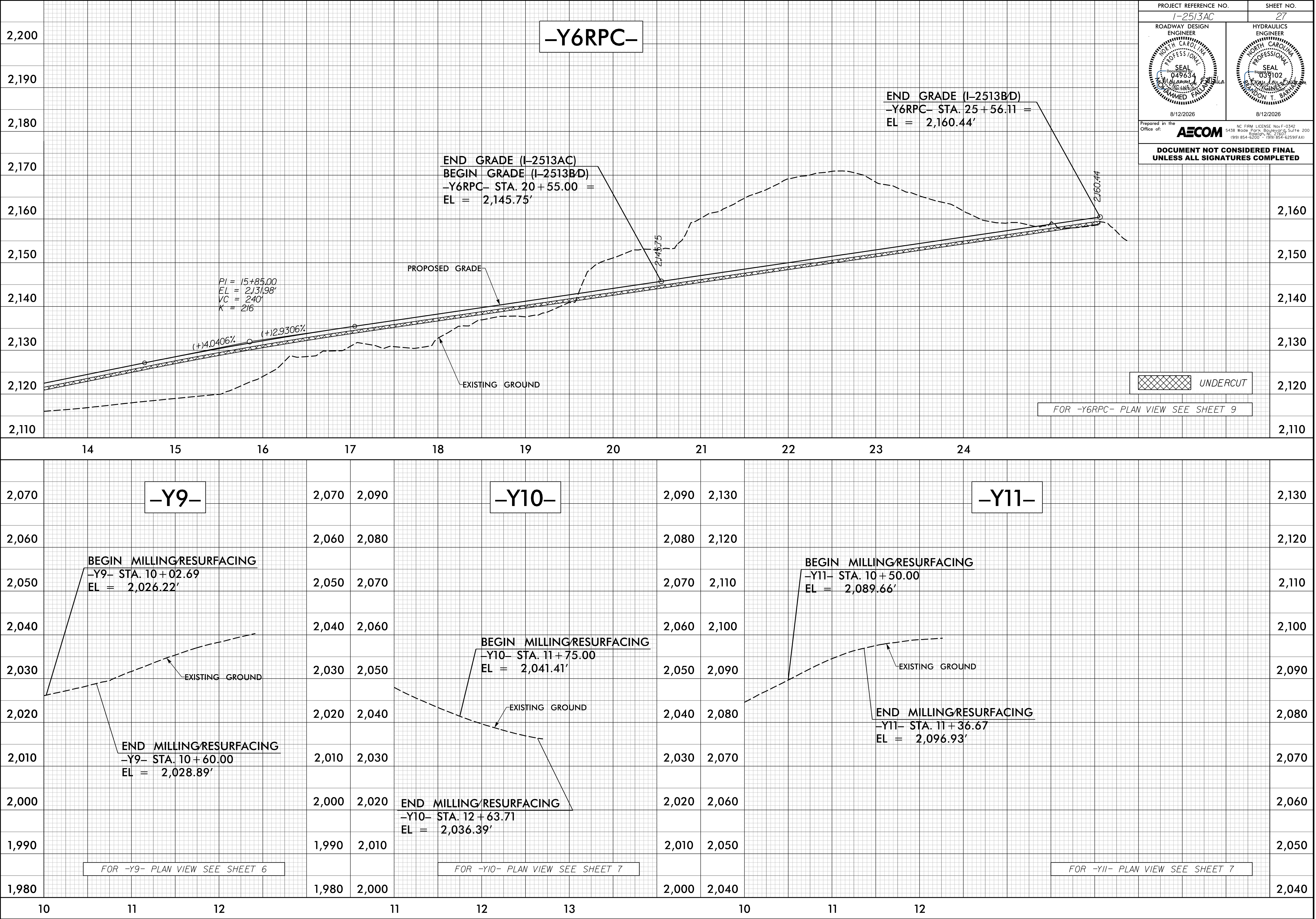
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Mohammed Fallah



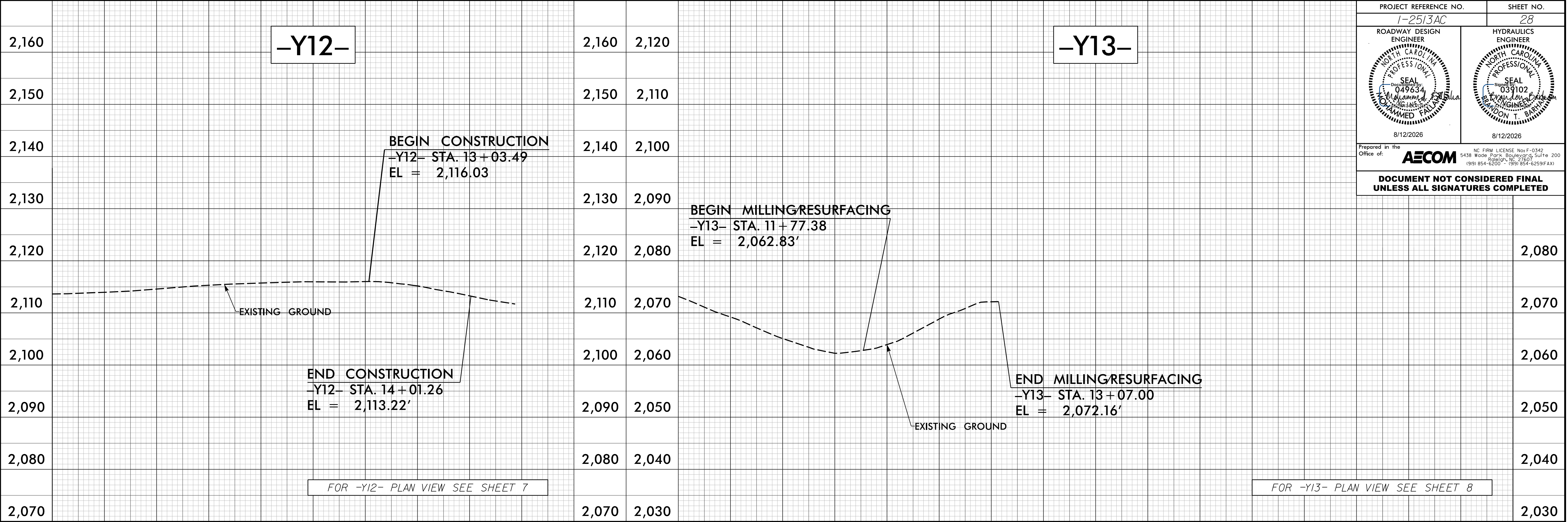


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7/13/2026
125136.dwg
Mohammed Fallah



5/28/24

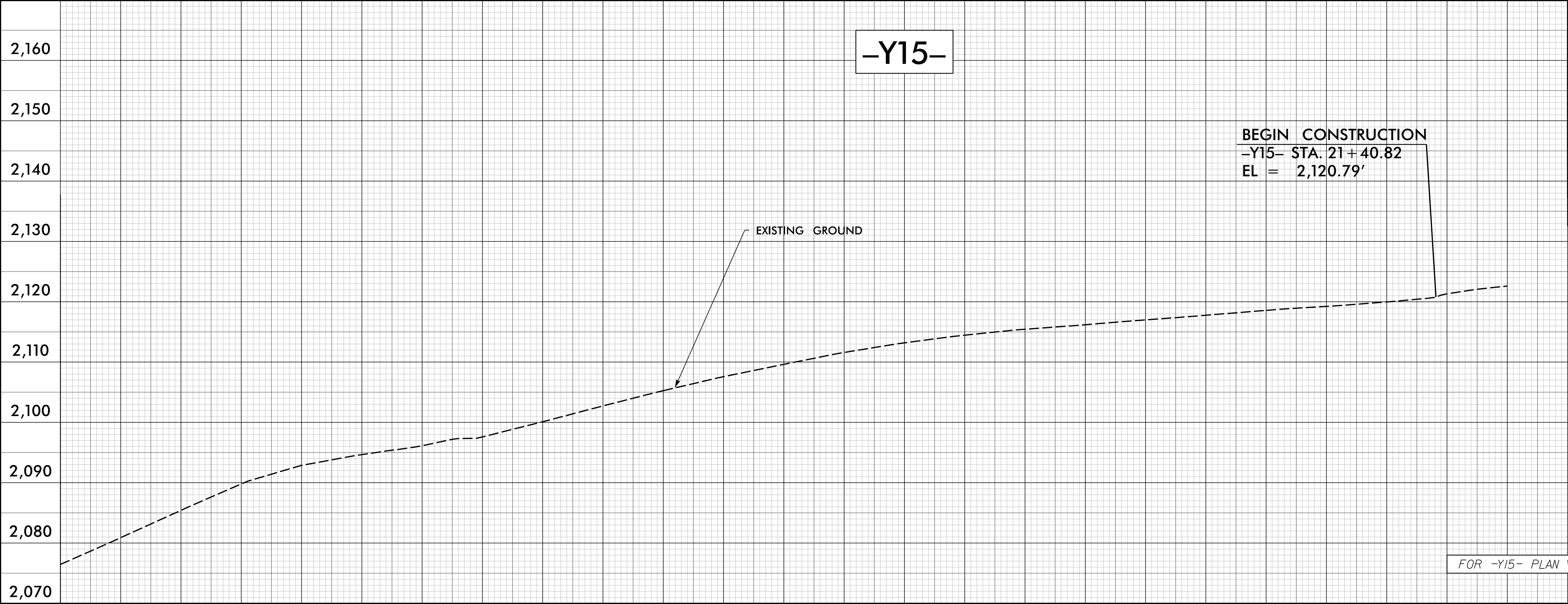


PROJECT REFERENCE NO. <i>1-2513AC</i>		SHEET NO. <i>28</i>	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 049634 Muhammad T. Bakh Muhammad T. Bakh		HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 039102 Muhammad T. Bakh Muhammad T. Bakh	
8/12/2026		8/12/2026	
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FAX)	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

7/13/2026
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Mohammed T. Bakh

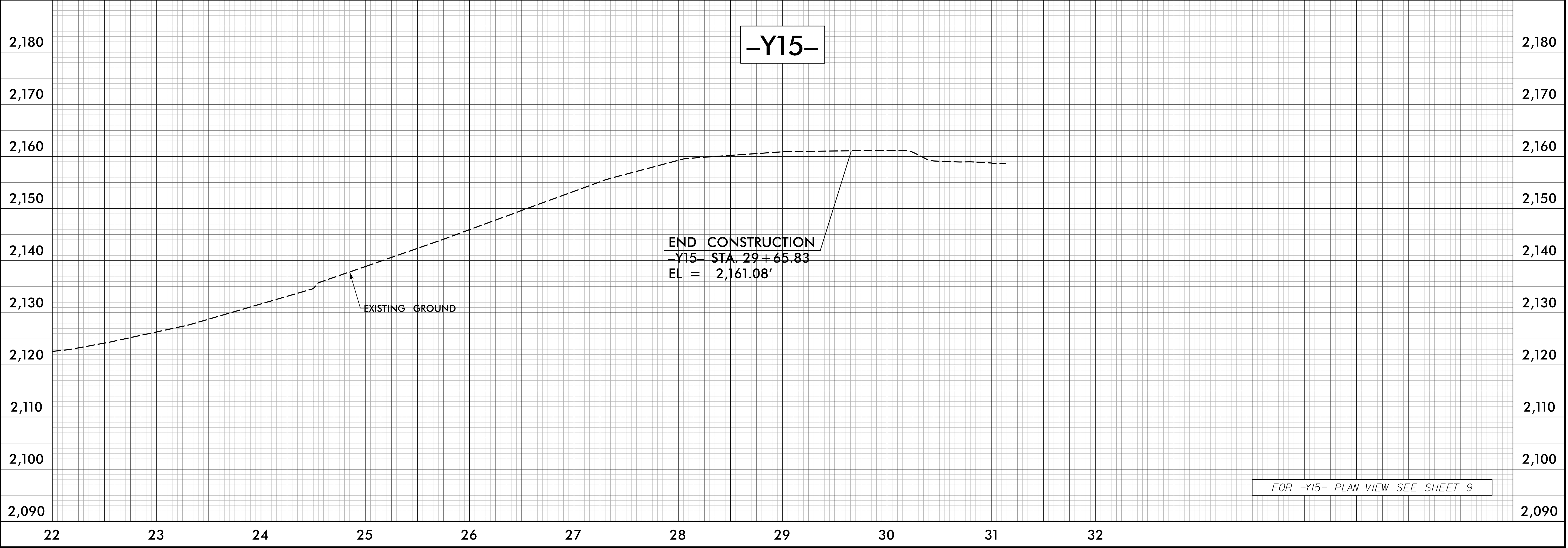


5/28/24

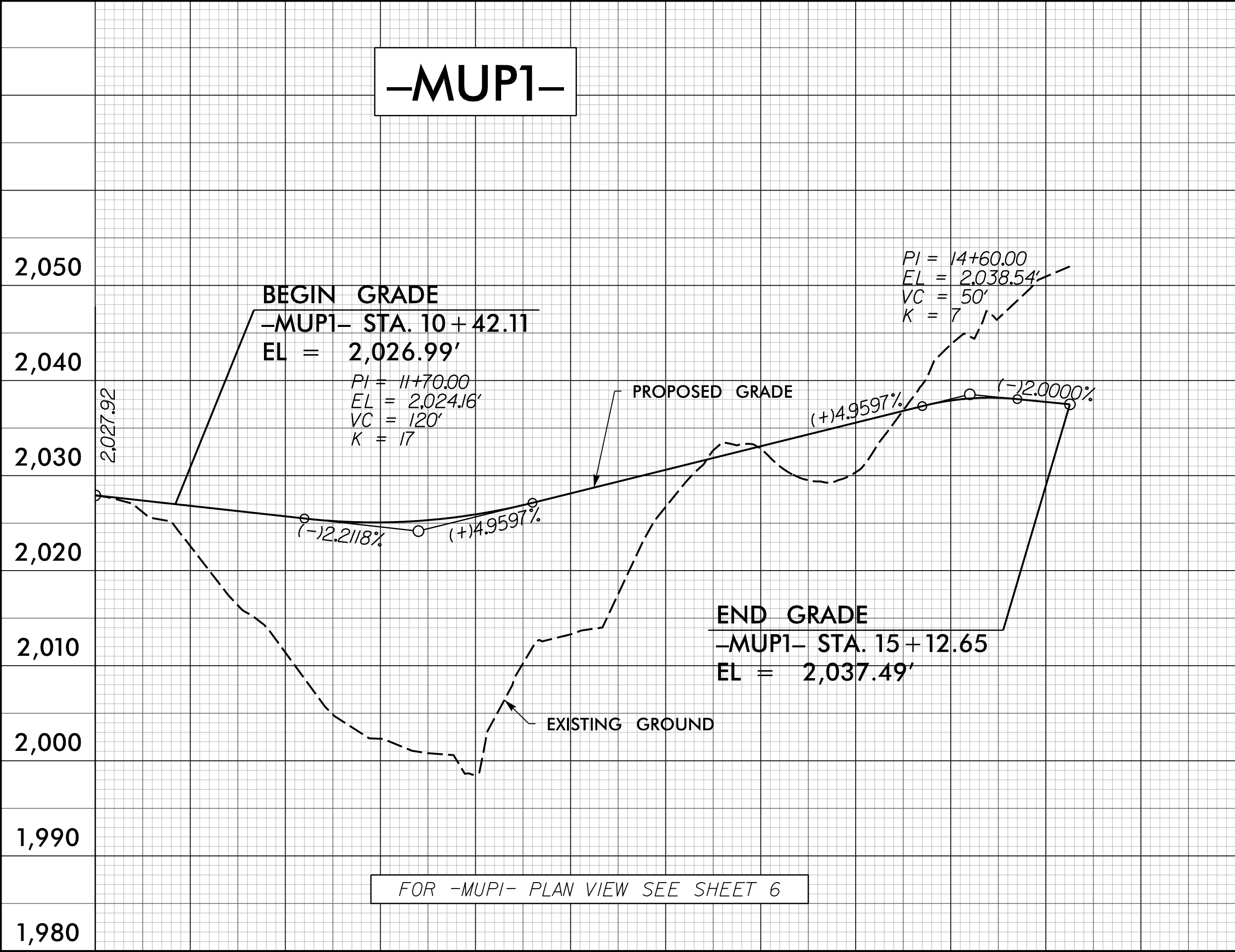


PROJECT REFERENCE NO. I-25/3AC		SHEET NO. 29
ROADWAY DESIGN ENGINEER SEAL 049634 MOHAMMED FALLAH NORTH CAROLINA PROFESSIONAL ENGINEER	HYDRAULICS ENGINEER SEAL 039102 ANDREW T. BARNES NORTH CAROLINA PROFESSIONAL ENGINEER	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28207 (919) 854-6000 / (919) 854-6259 (FX)		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

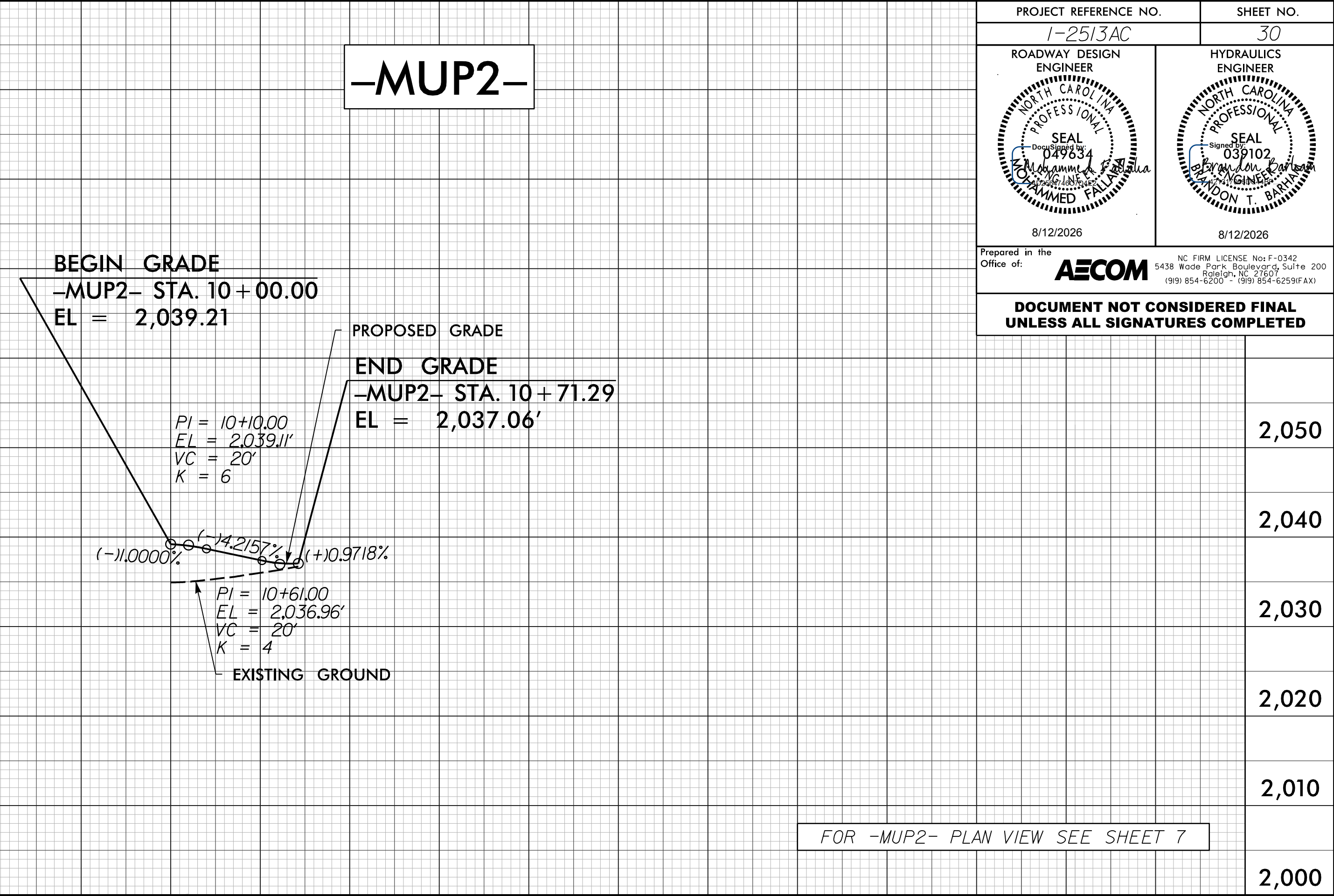
7/13/2026
12:53:36 PM
Mohammed Fallah



5/28/99

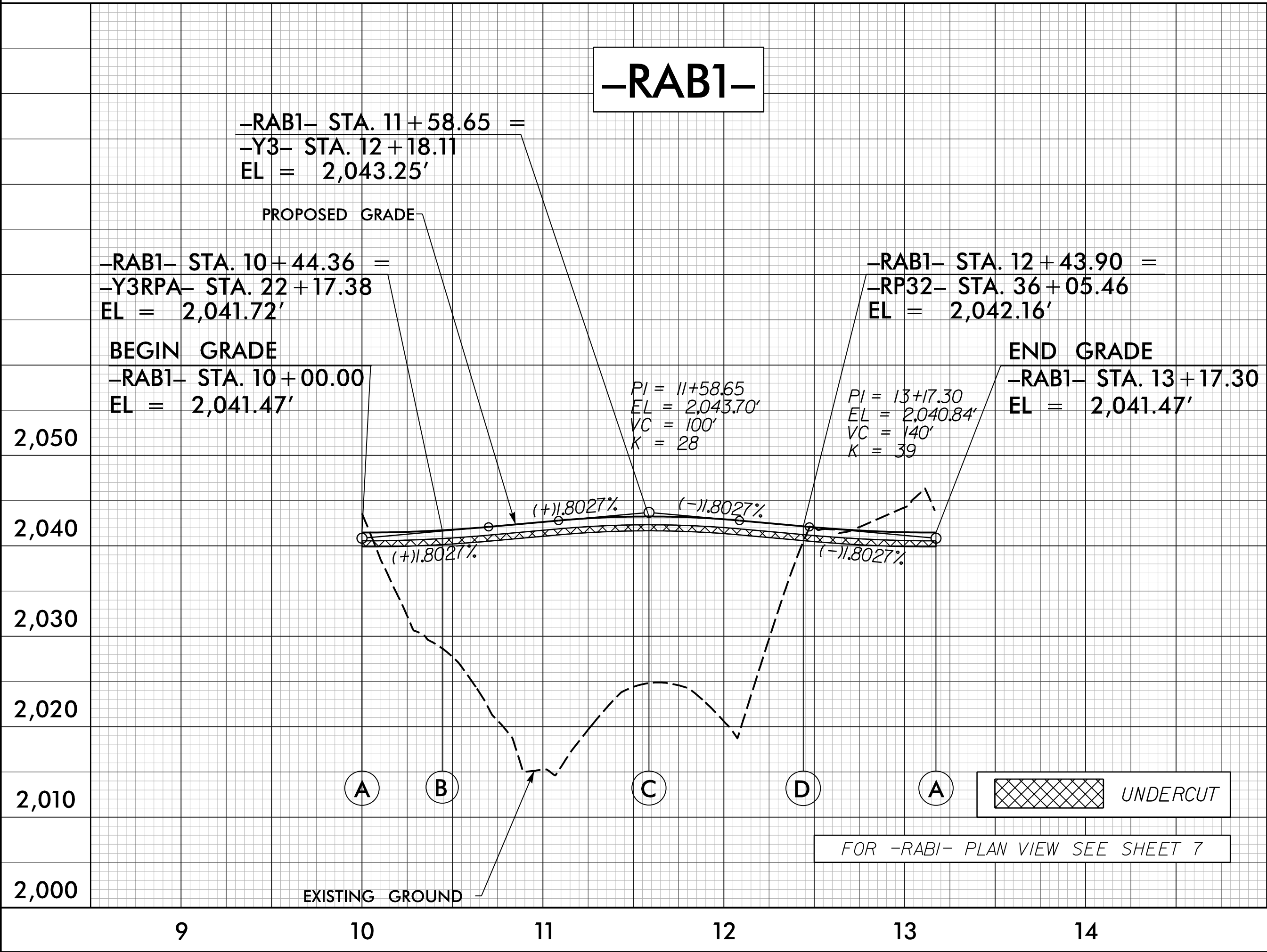


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2,000	2,020
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1,980	2,000

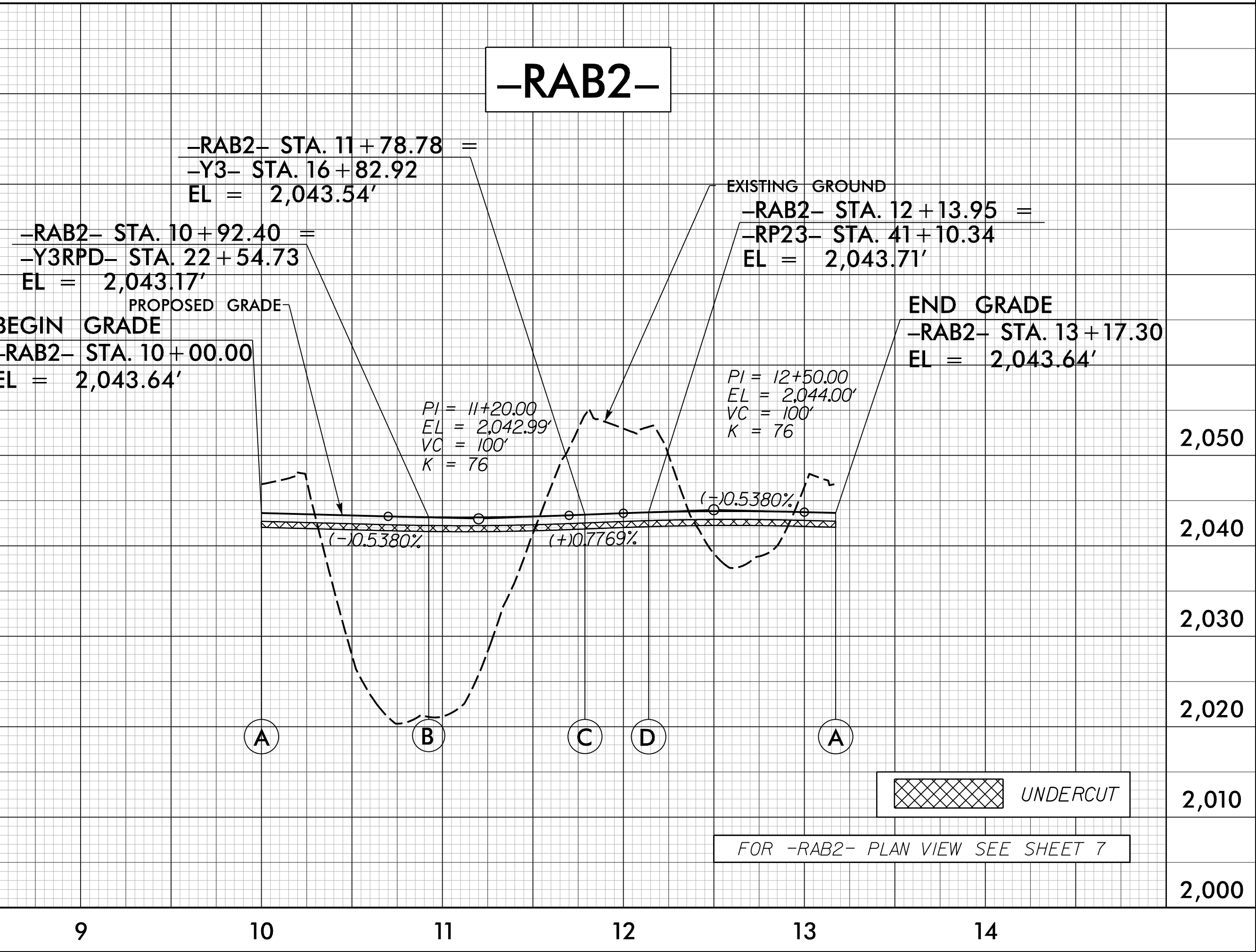


PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 30
ROADWAY DESIGN ENGINEER SEAL 049834 Muhammad A. Faruqi Muhammad Faruqi HAMMED FALLAH	HYDRAULICS ENGINEER SEAL 039102 Brandon T. Barham Brandon T. Barham	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FX)
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

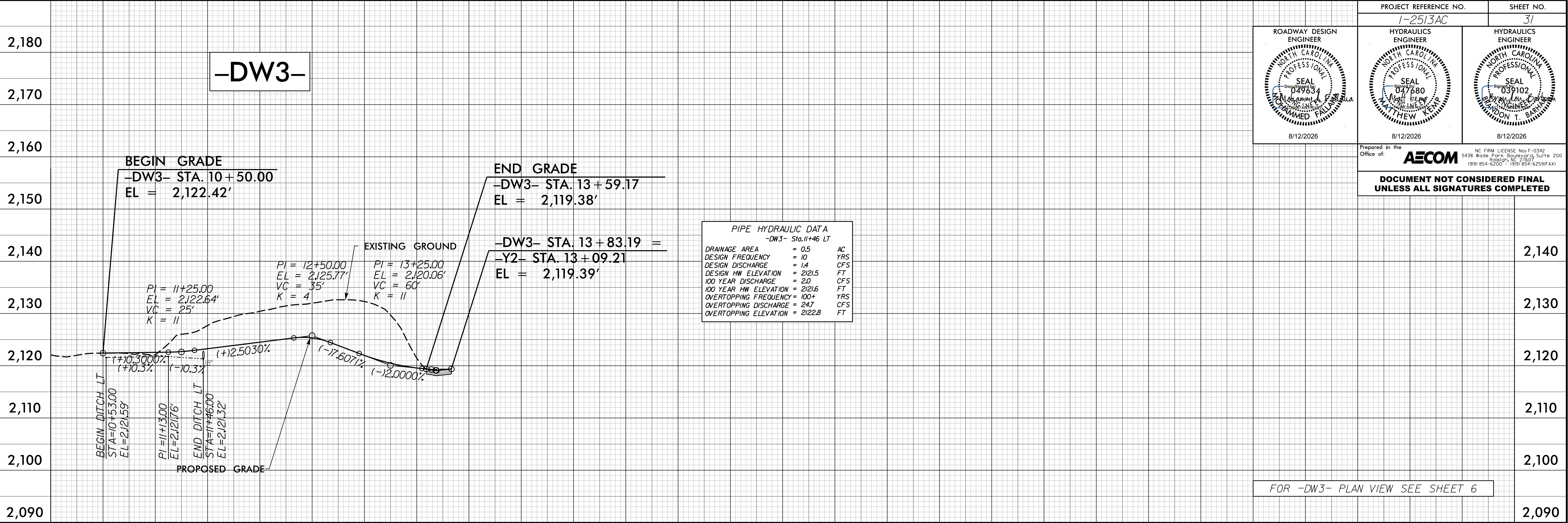
7/13/2026
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Muhammad Faruqi



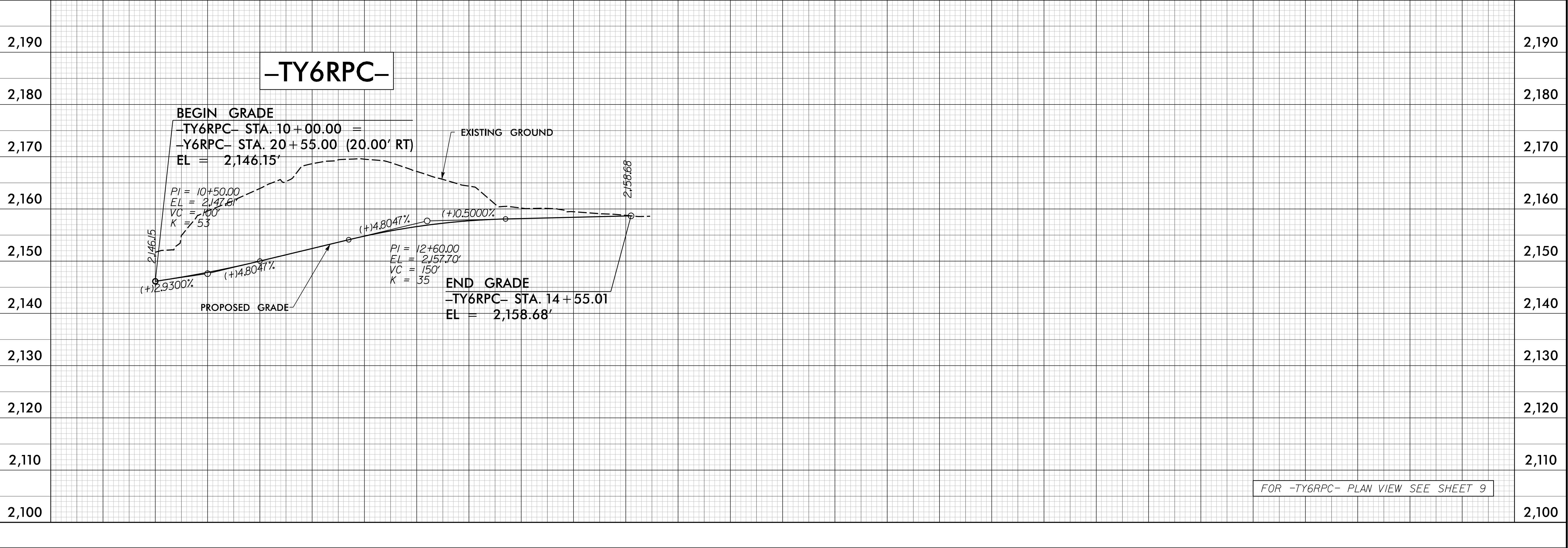
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2,000	2,000



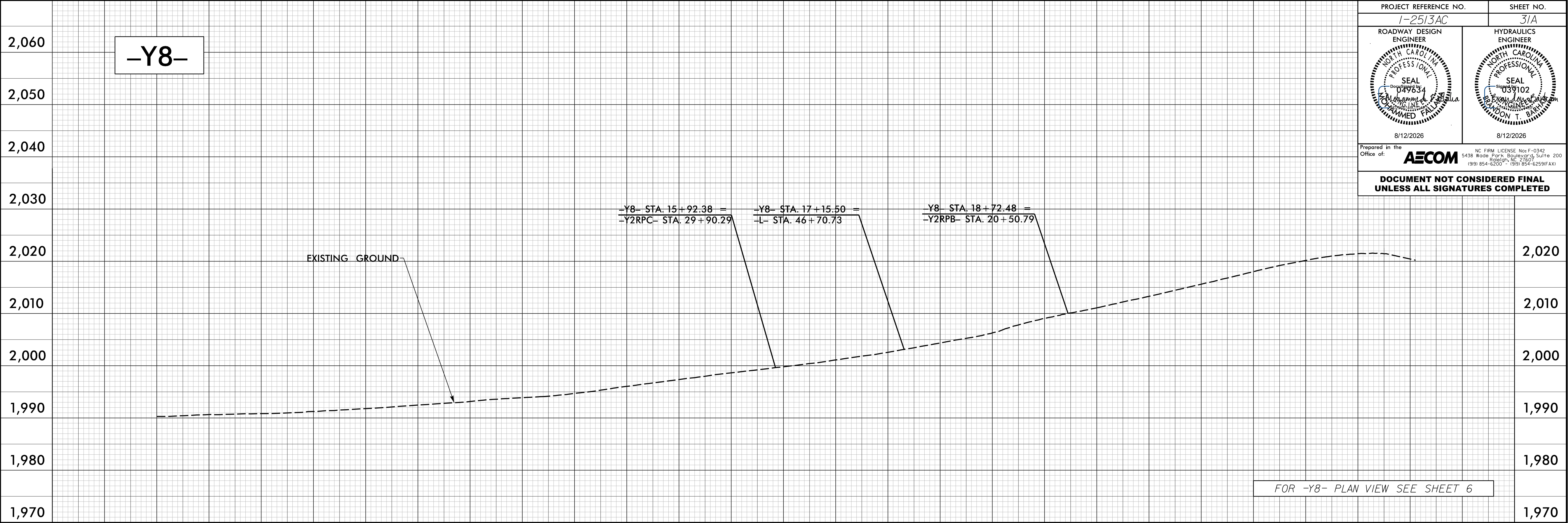
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8/12/2026
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Mohammed Fallah

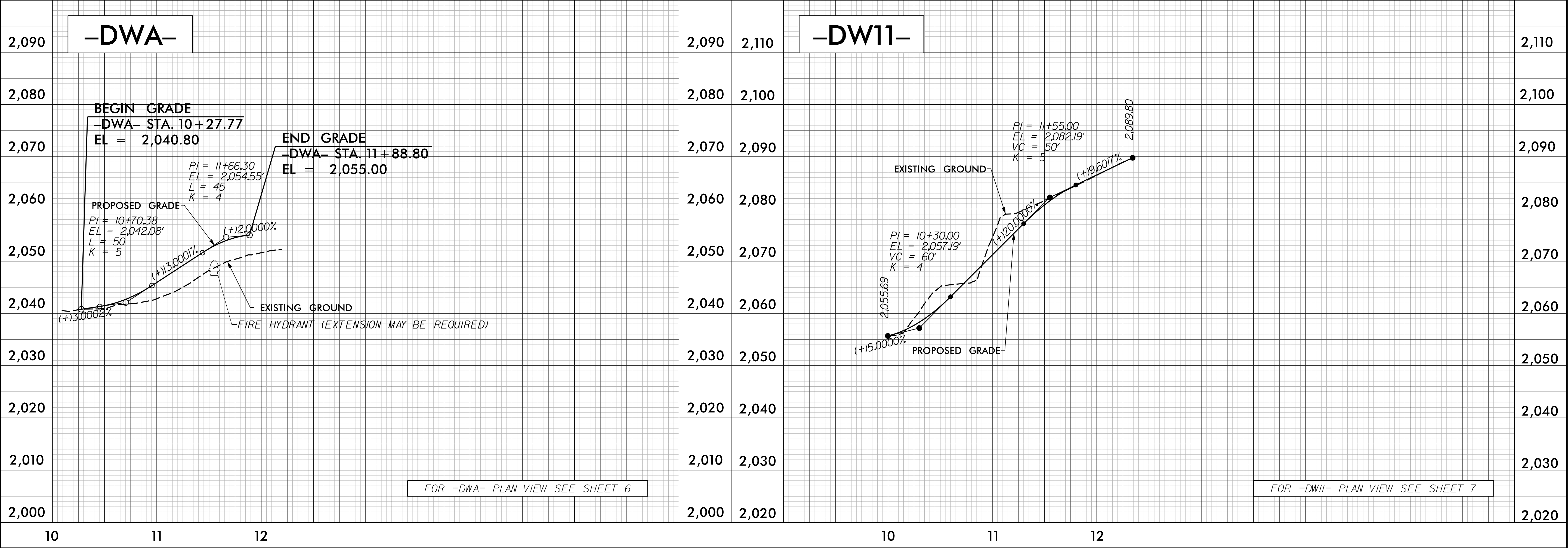


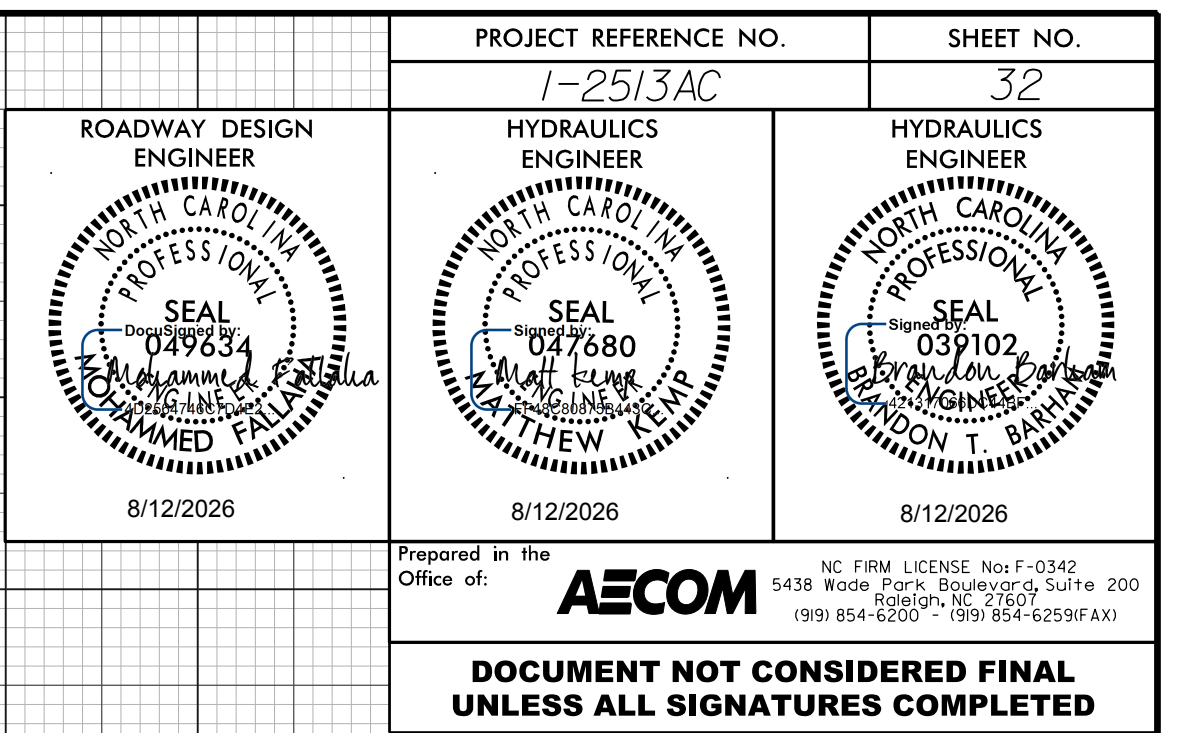
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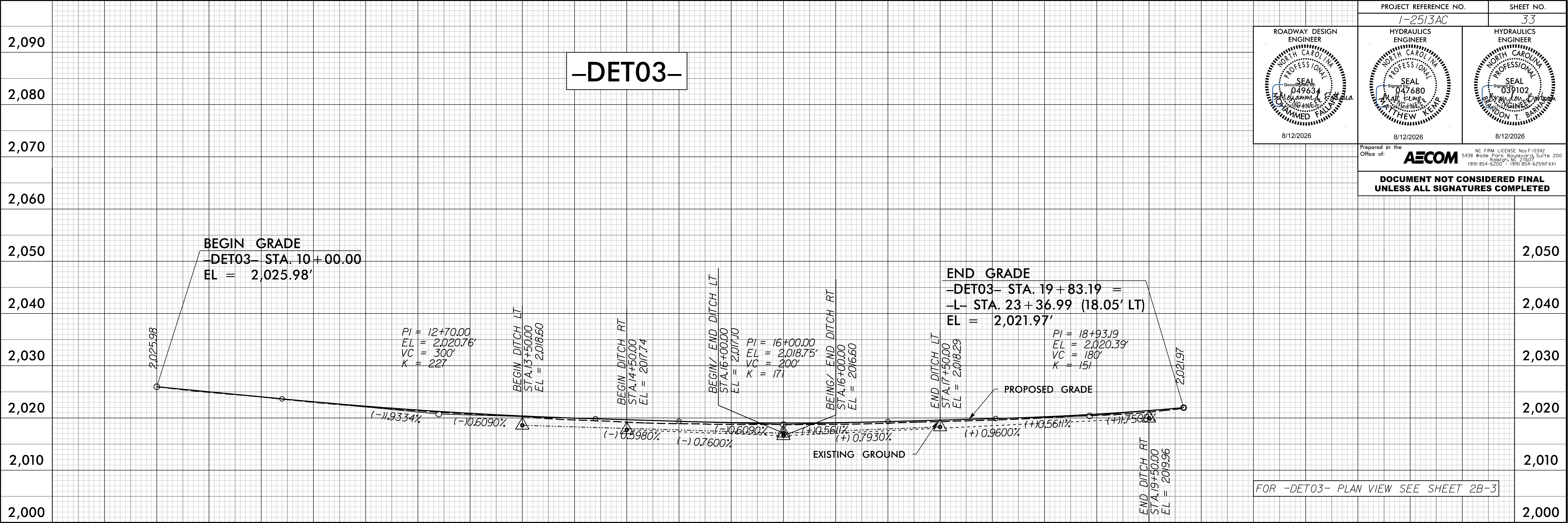
PROJECT REFERENCE NO.		SHEET NO.
I-25/3AC		31A
ROADWAY DESIGN ENGINEER SEAL 049834 MOHAMMED FALLAH	HYDRAULICS ENGINEER SEAL 039102 RANDON T. BARNES	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FAX)
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

7/13/2026
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Mohammed Fallah

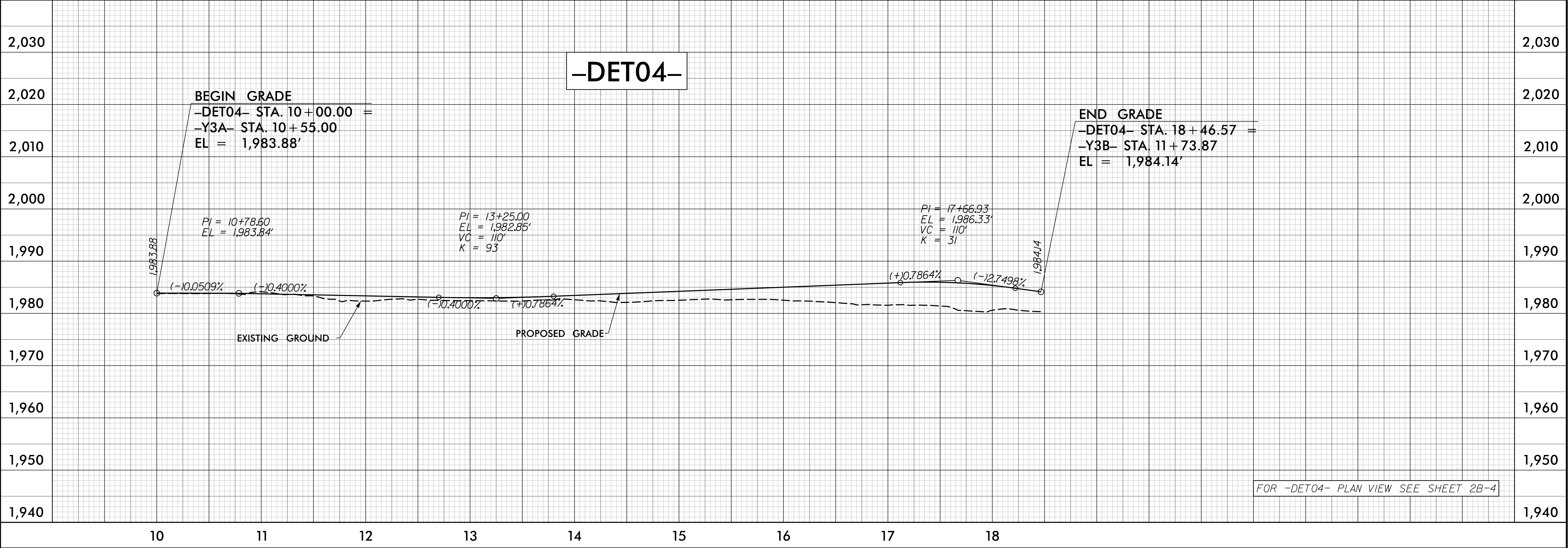




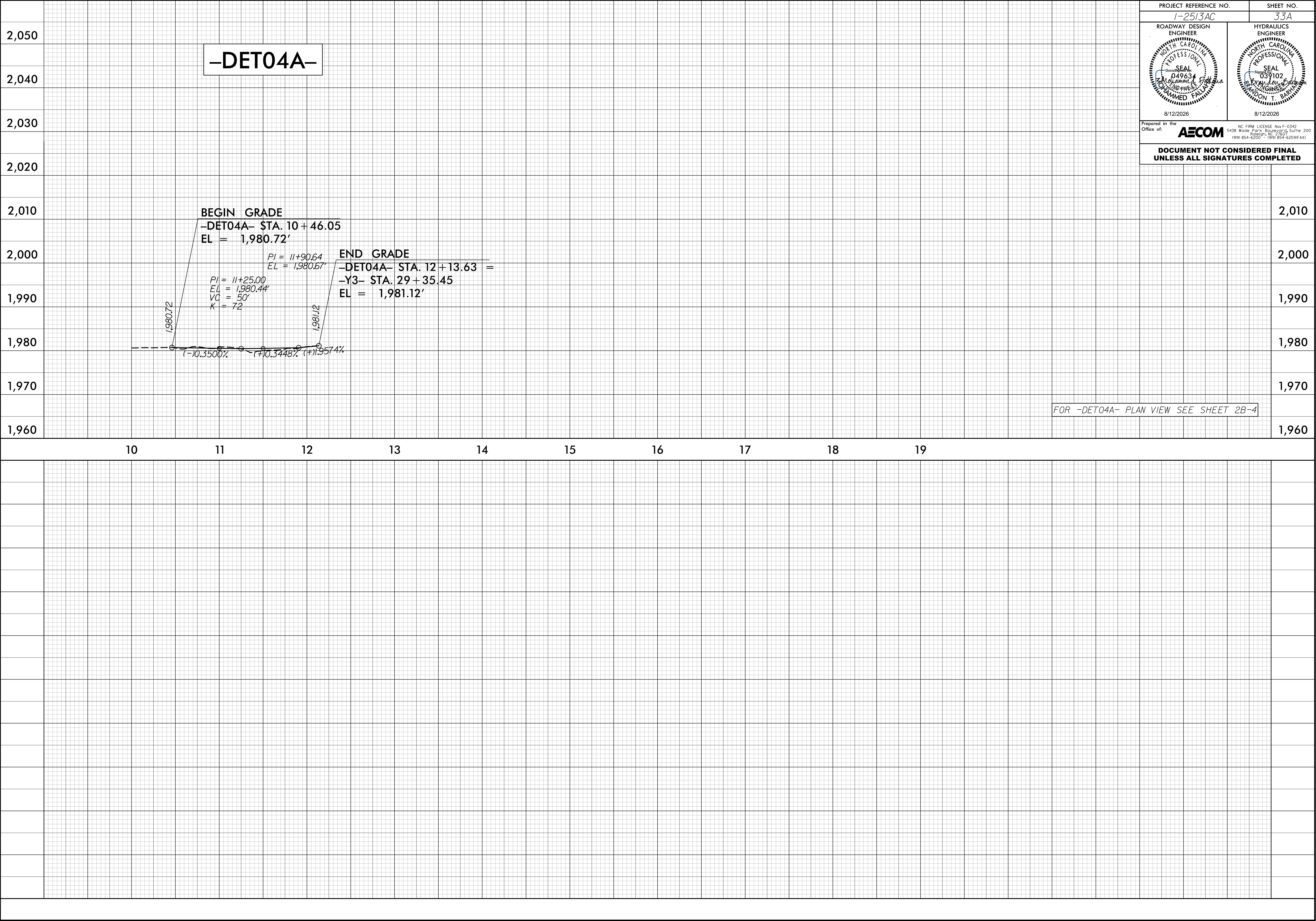
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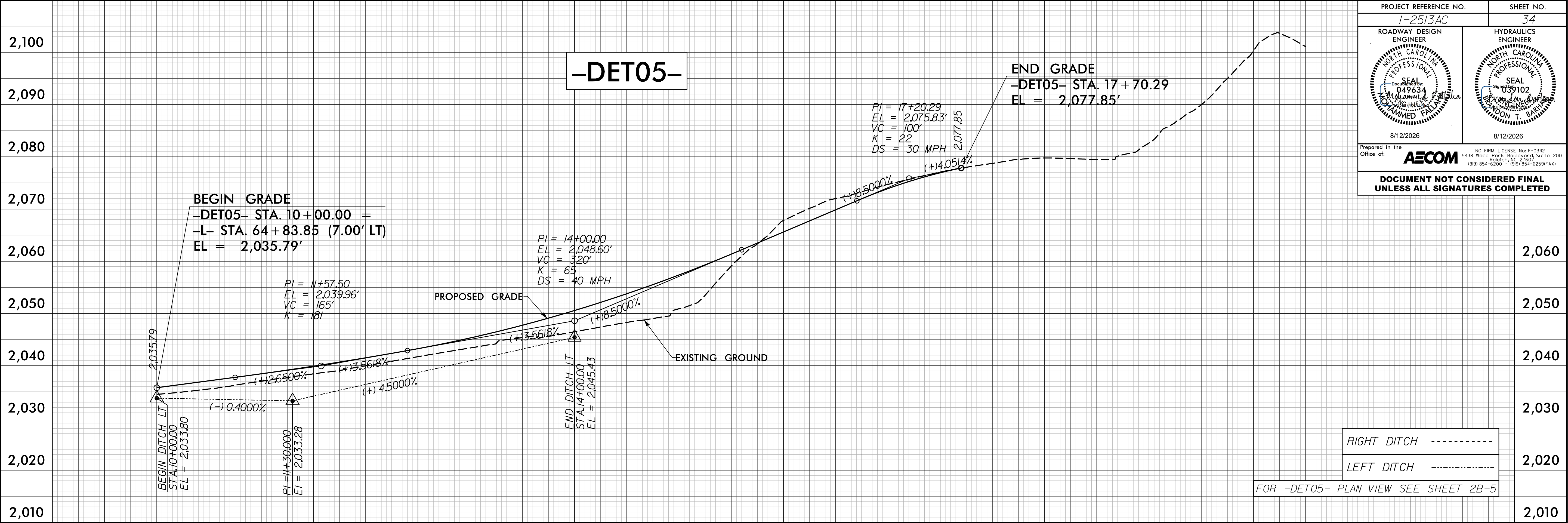
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Mohammed Fallah



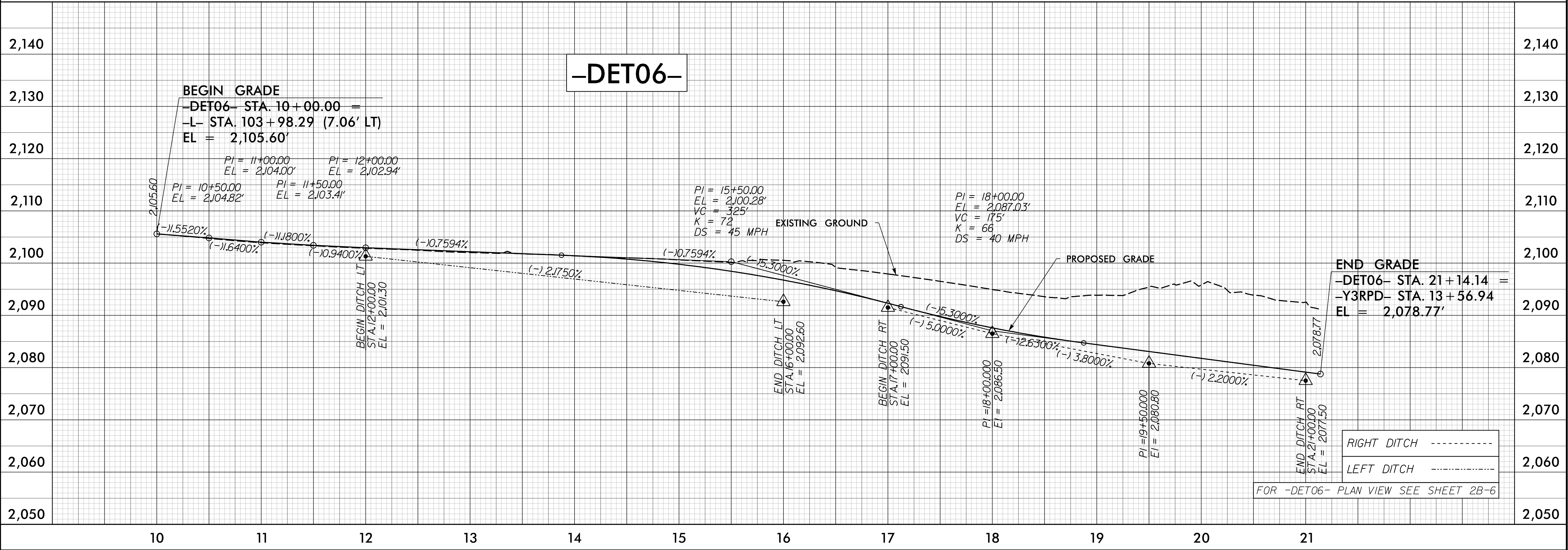
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5/28/24

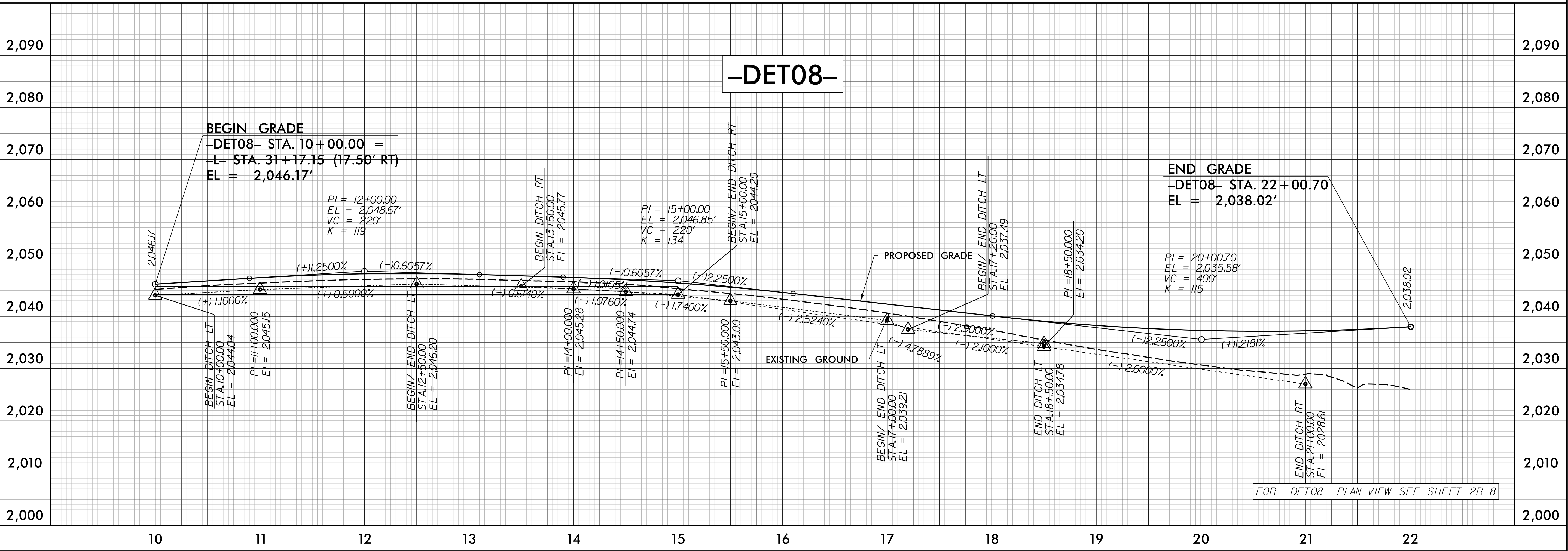
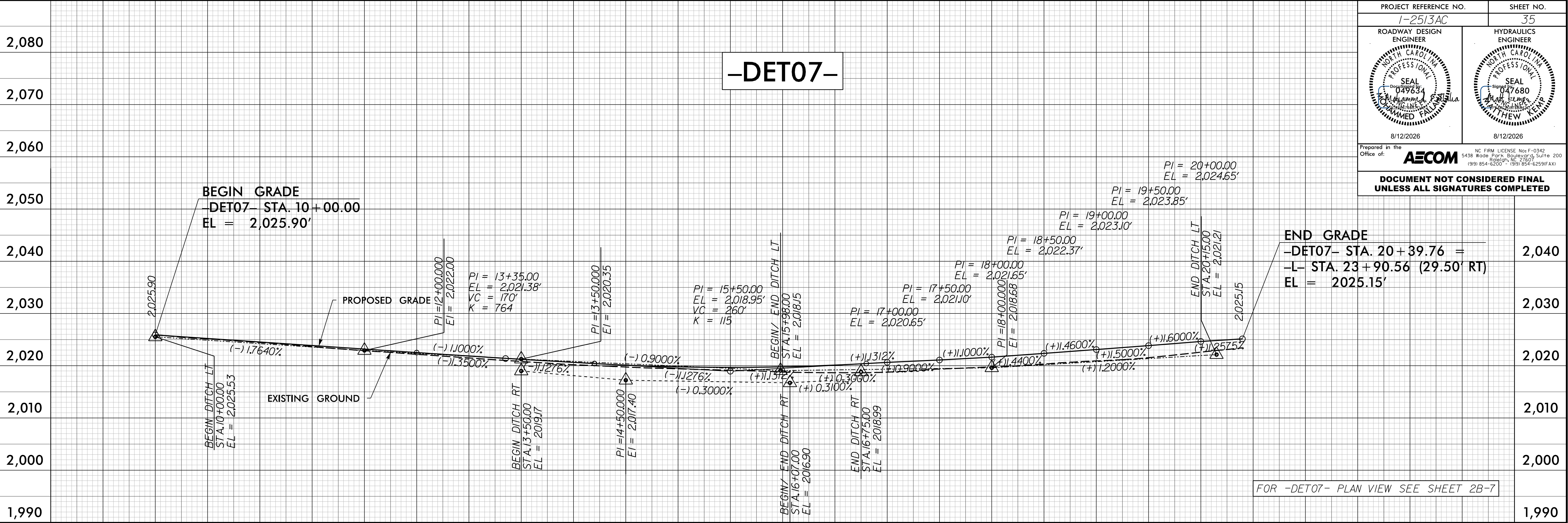


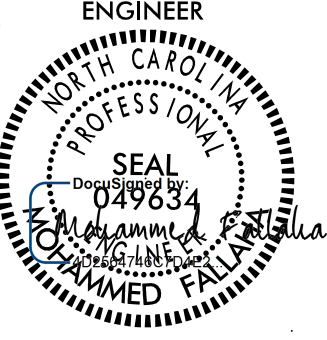
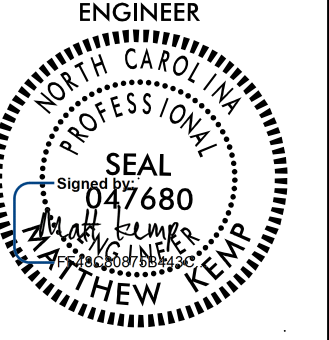
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5/28/26

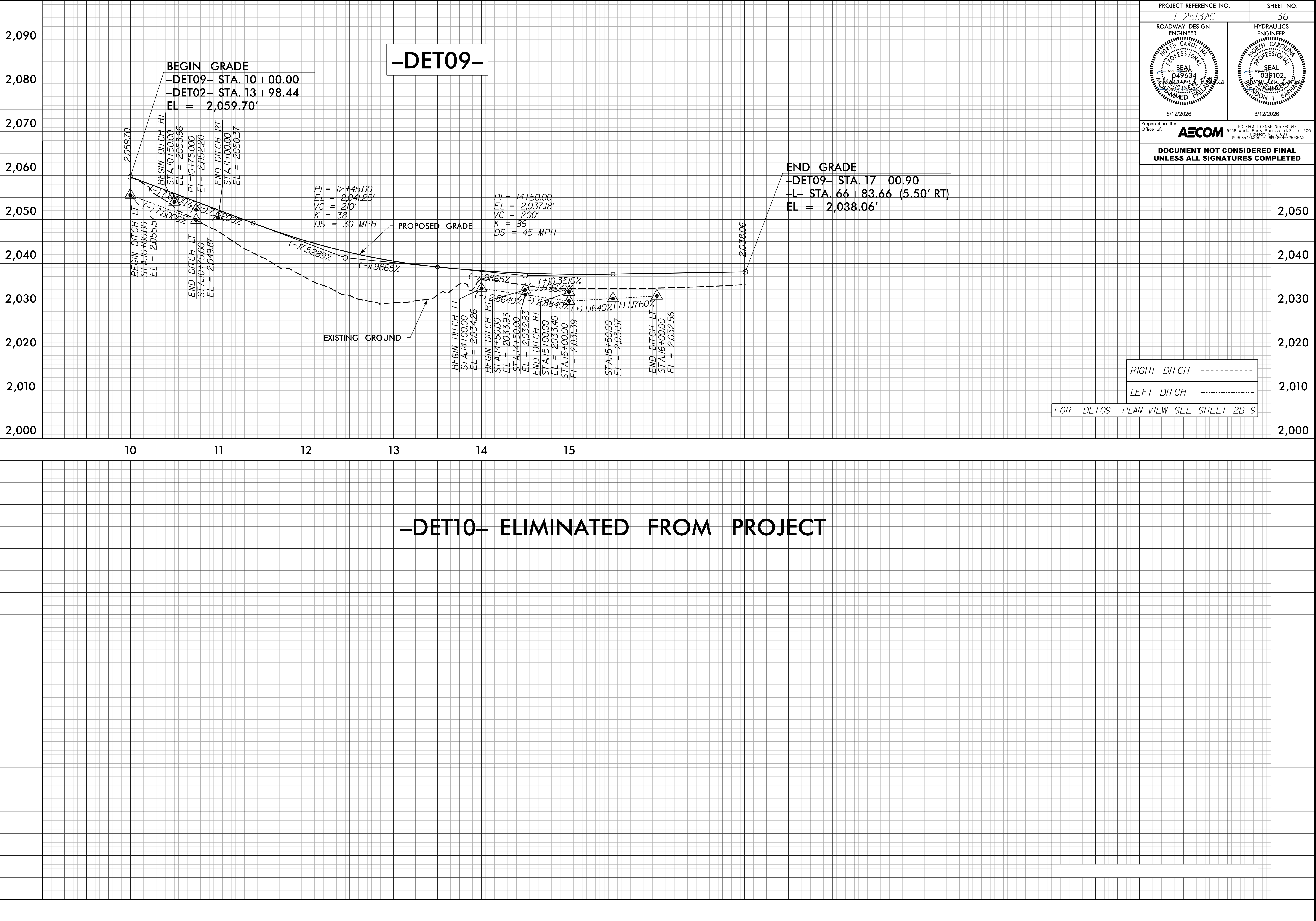
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Mohammed Fallah



PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 35
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 Wade Park, Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FX)
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Mohammed Fallah

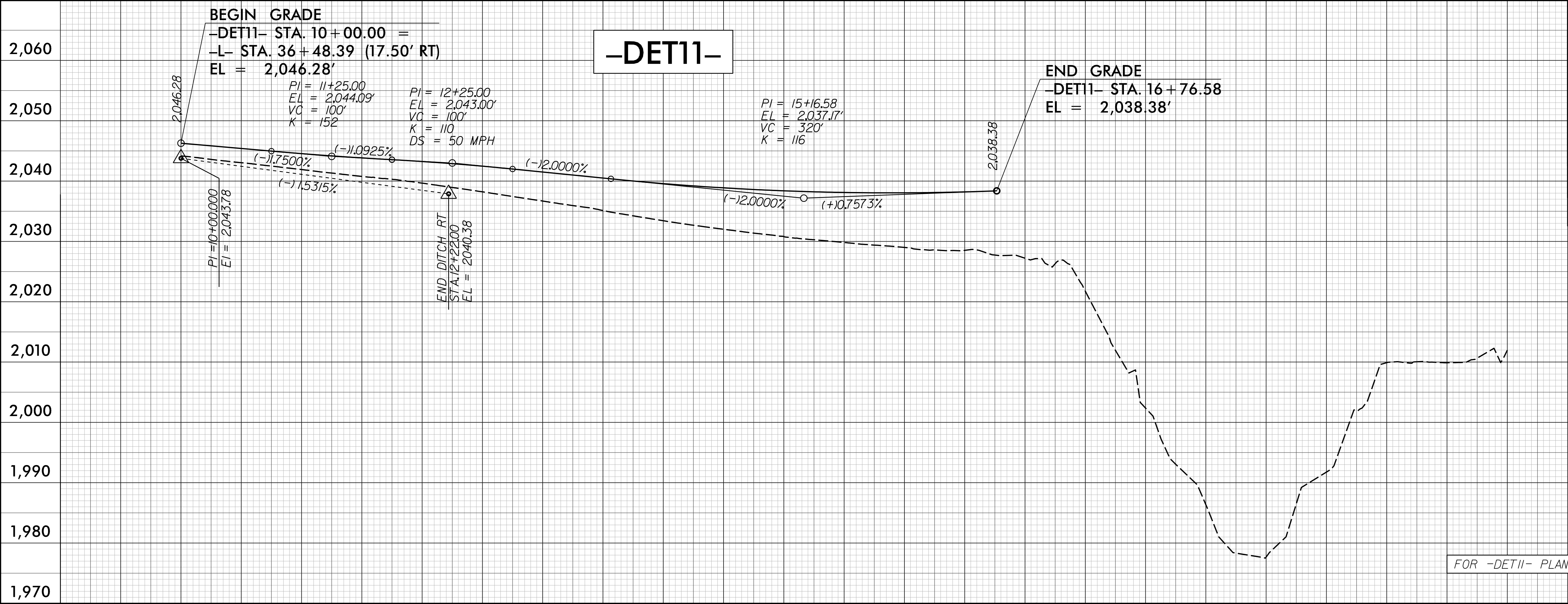


PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 36
ROADWAY DESIGN ENGINEER SEAL 049634 MOHAMMED FALLAH	HYDRAULICS ENGINEER SEAL 039102 ANDREW T. BARNES	
8/12/2026		8/12/2026
Prepared in the Office of: AECOM		
NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6000 • (919) 854-6259 (FAX)		
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-DET09-

-DET10- ELIMINATED FROM PROJECT

5/28/24



PROJECT REFERENCE NO. 1-2513AC		SHEET NO. 37
ROADWAY DESIGN ENGINEER 8/12/2026 SEAL 049634 MOHAMMED FALLAH		HYDRAULICS ENGINEER 8/12/2026 SEAL 047680 MATTHEW TEHR
Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28207 (919) 854-6000 • (919) 854-6259 (FAX)		
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FOR -DET11- PLAN VIEW SEE SHEET 2B-II

-DET12- ELIMINATED FROM PROJECT
-DET13- ELIMINATED FROM PROJECT

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