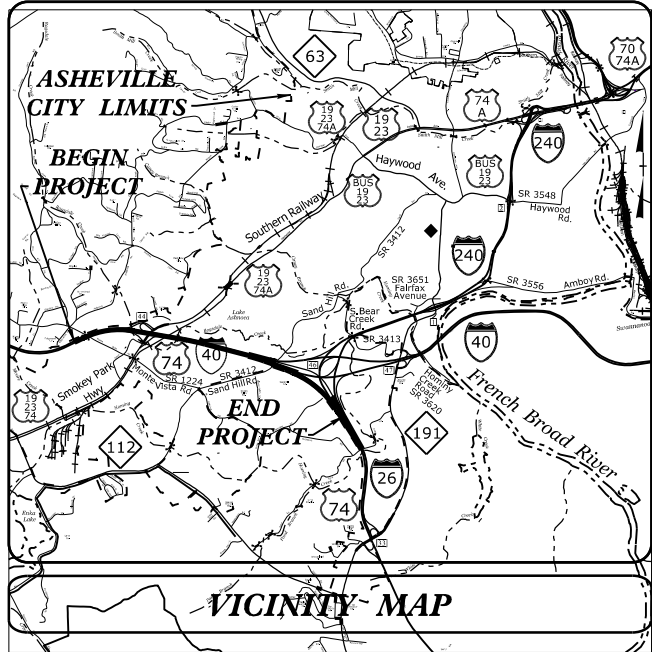


TIP PROJECT: I-2513AA/AB

CONTRACT:

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

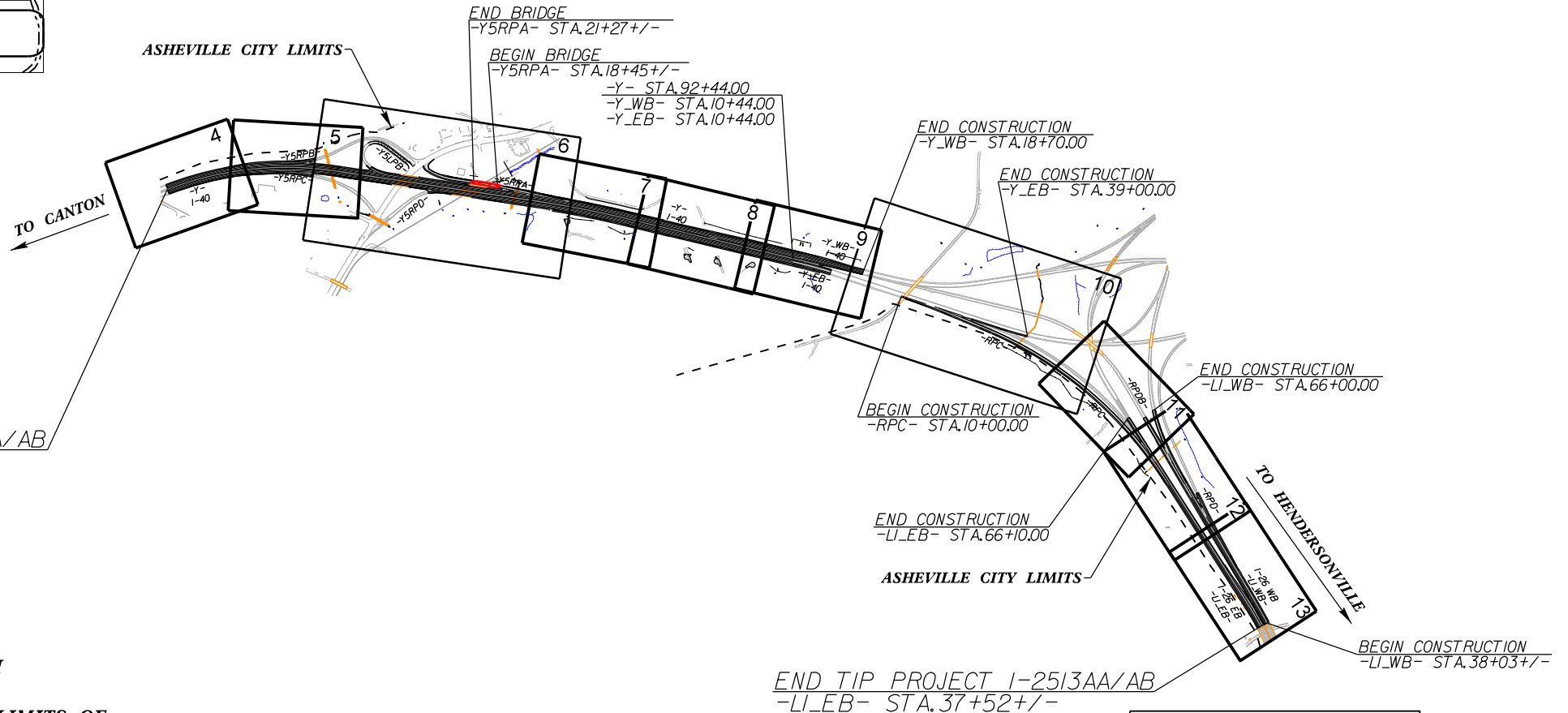


25% REVISED ROADWAY PLANS
JANUARY 13, 2022

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BUNCOMBE COUNTY

LOCATION: I-40 FROM MONTE VISTA ROAD TO WEST OF SAND HILL RD.
I-26 FROM POND ROAD BRIDGE TO I-26/I-40/I-240 INTERCHANGE.
INCLUDES INITIAL IMPROVEMENTS AT I-40EB TO I-26EB RAMP
AND US 19/23 (SMOKEY PARK HIGHWAY)

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
STRUCTURES, CULVERTS, RETAINING WALLS,
SOUND WALLS, SIGNALS, AND SIGNING

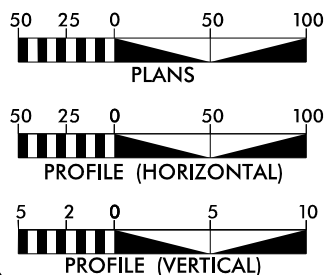


THIS IS A CONTROLLED-ACCESS PROJECT WITH
ACCESS BEING LIMITED TO INTERCHANGES

THIS PROJECT IS LOCATED WITHIN THE CITY LIMITS OF
THE CITY OF ASHEVILLE

CLEARING ON THIS PROJECT WILL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = 95,100
ADT 2040 = 118,800
K = 9 %
D = 55 %
T = 11 % *
V = 60 MPH
* TTST = 8% DUAL 3%
FUNC CLASS = INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-2513AA/AB = 2.661 MI

TOTAL LENGTH TIP PROJECT I-2513AA/AB = 2.661 MI



KCI Associates of N.C., P.A.
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
Fax (919) 783-9266

RIGHT OF WAY DATE:
JUNE 17, 2022

LETTING DATE:
FEBRUARY 20, 2024

CHARLES L. FLOWE, P.E.
PROJECT ENGINEER

BARRY C. SMITH, P.E.
PROJECT DESIGN ENGINEER

KEVIN E. MOORE, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

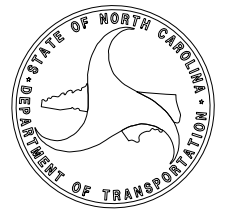
ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AA/AB	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34165.1.6		P.E., R/W, UTIL	

4B PLANS

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



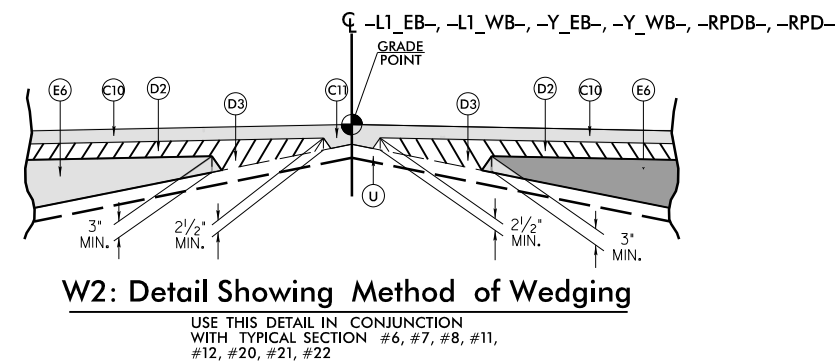
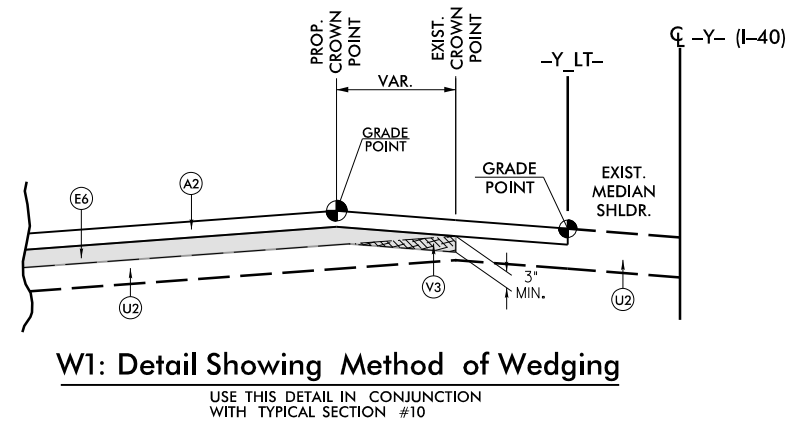
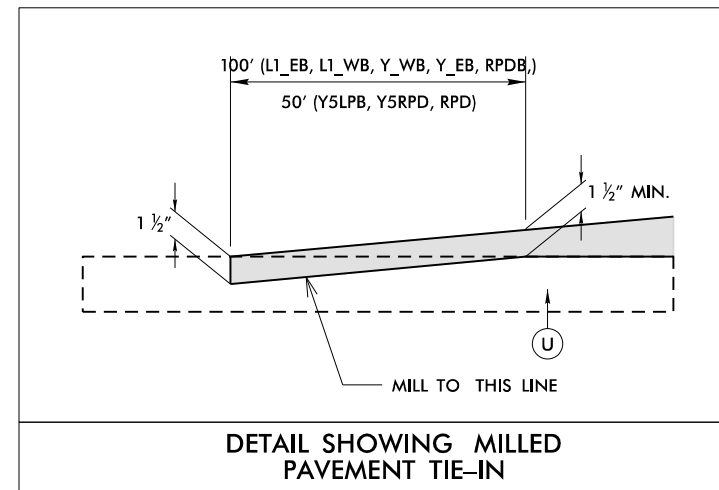
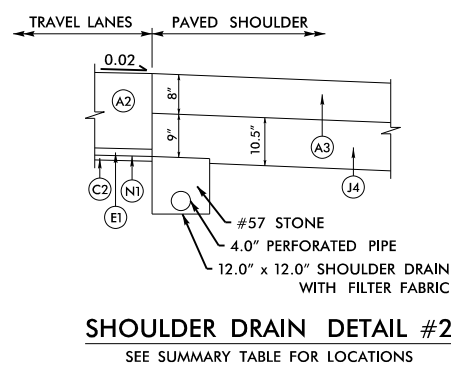
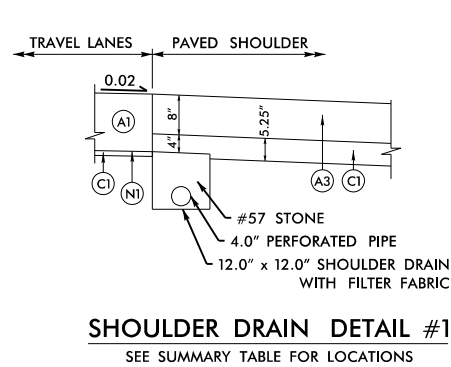
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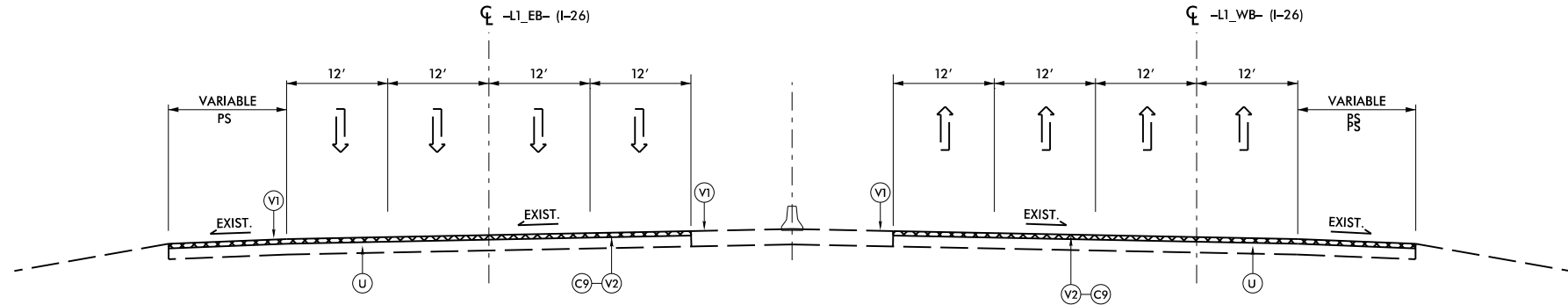
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN		E6	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.	V1	MILLED RUMBLE STRIPS.
A1	12" PORTLAND CEMENT CONCRETE PAVEMENT W/ DOWELS. AND NEXT GENERATION DIAMOND GRINDING	J1	PROP. 5.25" AGGREGATE BASE COURSE.	V2	1.5" MILLING
A2	14" PORTLAND CEMENT CONCRETE PAVEMENT W/ DOWELS.	J2	PROP. 6" AGGREGATE BASE COURSE.	V3	VARIABLE MILLING
A3	PROP. APPROX. 8" ROLLER COMPACTED CONCRETE.	J3	PROP. 8" AGGREGATE BASE COURSE.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 1).
A4	PROP. APPROX. 7" RADIALLY JOINTED CONCRETE PAVEMENT WITH WELDED WIRE MESH.	J4	PROP. 10.5" AGGREGATE BASE COURSE.	W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 2).
A5	6" JOINTED CONCRETE WITH WIRE MESH	J5	VAR. DEPTH AGGREGATE BASE COURSE.	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE	
C1	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	K1	PROP. 8" CHEMICAL STABILIZATION (LIME-TREATED SOIL). BASE TREATED WITH CEMENT AT A RATE OF 55 LBS. PER SQ. YARD OR SOIL TREATED WITH LIME AT A RATE OF 20 LBS. PER SQ. YARD.		
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	K2	PROP. # CLASS IV SUBGRADE STABILIZATION		
C3	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	N1	NONWOVEN GEOTEXTILE INTERLAYER		
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	N2	GEOTEXTILE FOR SOIL STABILIZATION		
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	R1	1'-6" CONCRETE CURB AND GUTTER.		
C6	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	2'-6" CONCRETE CURB AND GUTTER.		
C7	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R3	8"x18" CONCRETE CURB		
C8	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R4	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)		
C9	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R5	EXPRESSWAY GUTTER		
C10	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 336 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R6	SHOULDER BERM GUTTER		
C11	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R7	DOUBLE FACE CONCRETE BARRIER		
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R8	SINGLE SLOPE CONCRETE BARRIER		
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R9	PRECAST REINFORCED CONCRETE BARRIER		
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R10	CONCRETE BARRIER RAIL WITH MOMENT SLAB		
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK		
E2	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL.		
E3	PROP. APPROX. 7½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 428 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U	EXISTING PAVEMENT.		
E4	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U1	EXISTING CONCRETE PAVEMENT TO BE REMOVED.		
E5	PROP. APPROX. 9" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U2	EXISTING ASPHALT DRAINAGE LAYER TO BE RETAINED.		

PROJECT REFERENCE NO.		SHEET NO.	
I-25/3AA/AB		2A-1	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



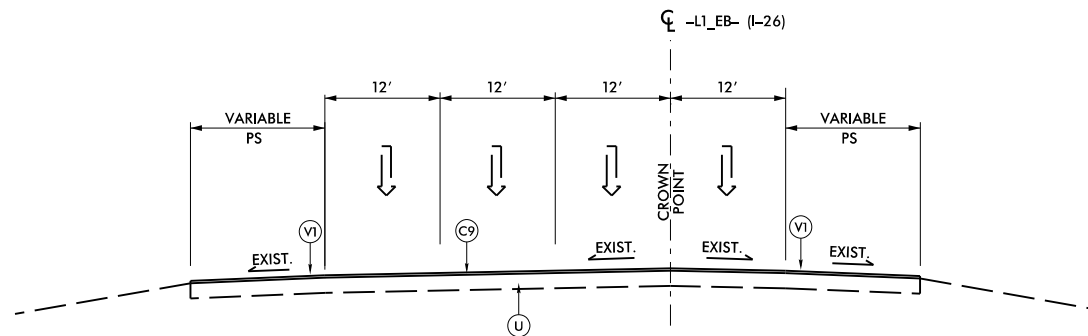
6/2/99

2/8/2022
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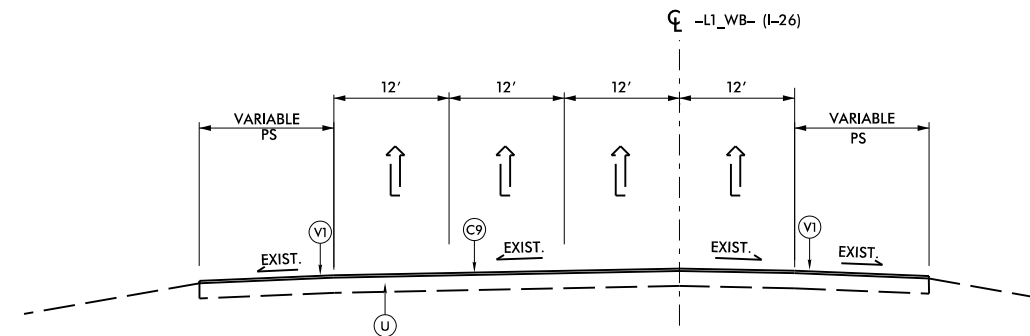
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-L1_EB- STA. 37+52.34 TO 40+40.00
-L1_WB- STA. 38+02.51 TO 40+95.00



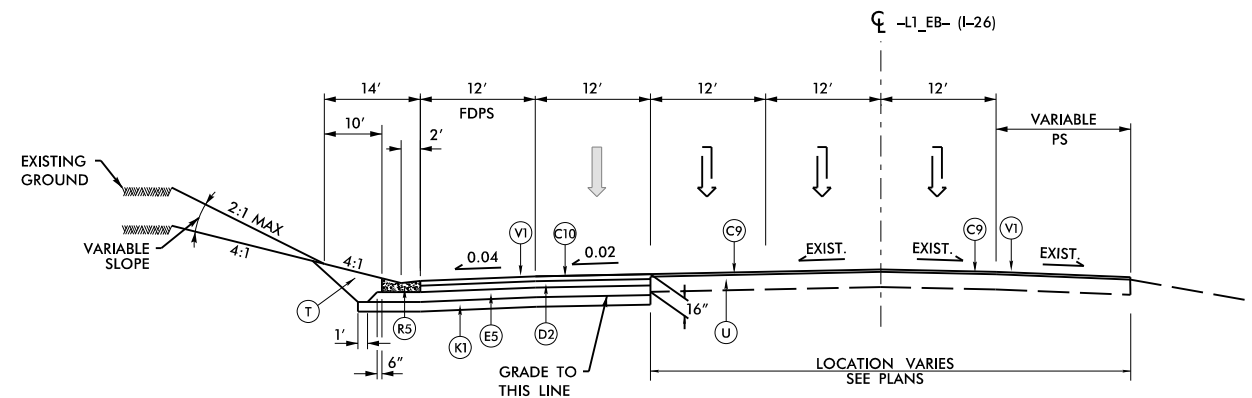
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-L1_EB- STA. 40+40.00 TO 43+50.00



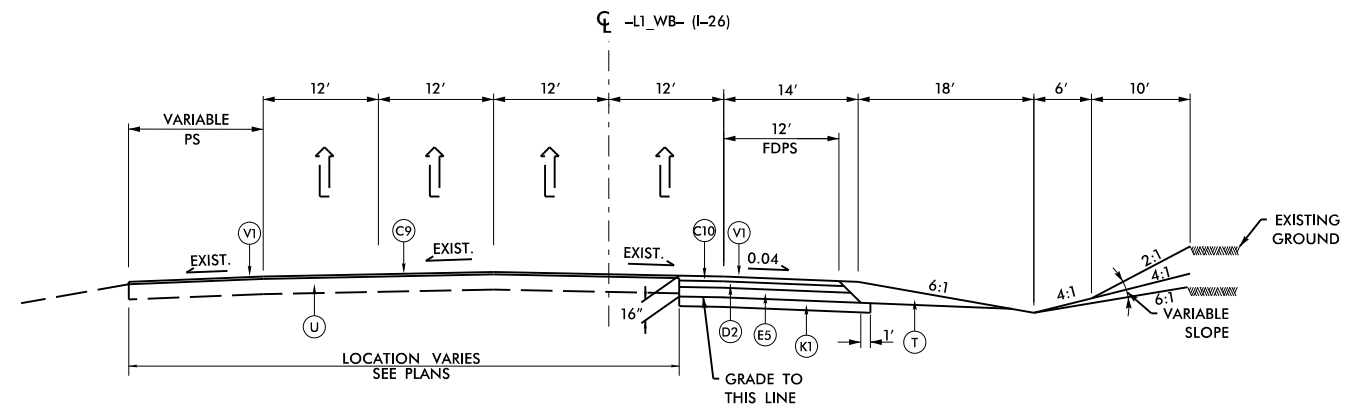
ROADWAY TYPICAL SECTION NO. 3

-L1_WB- STA. 40+95.00 TO 44+05.00



ROADWAY TYPICAL SECTION NO. 4

-L1_EB- STA. 43+50.00 TO 57+13.41



ROADWAY TYPICAL SECTION NO. 5

-L1_WB- STA. 44+05.00 TO 48+15.00

PROJECT REFERENCE NO.
1-2513AA/AB

SHEET NO.
2A-3

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

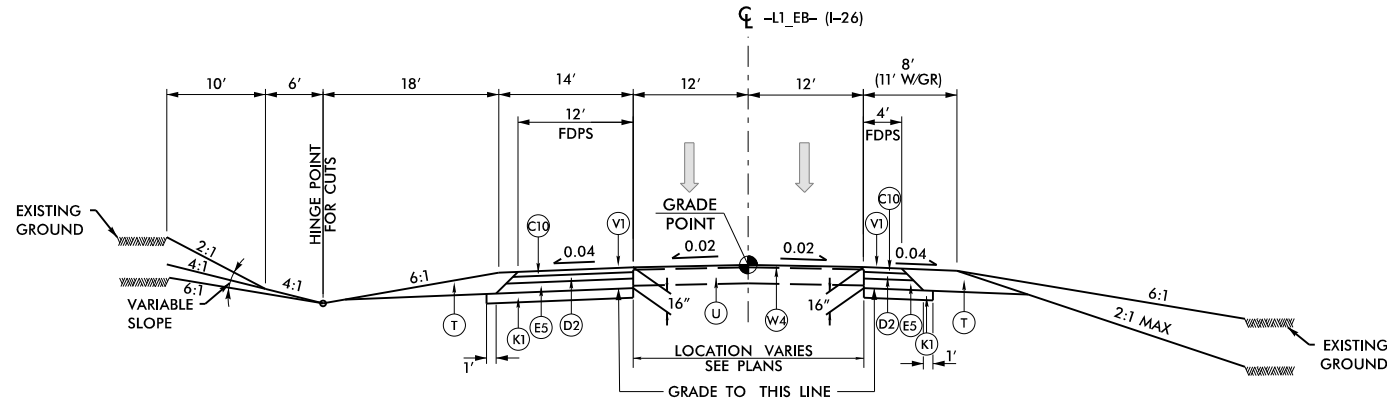
KCI

Engineers • Planners • Scientists • Construction Managers
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609-6270
Phone (919) 783-9214 • Fax (919) 783-9266

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

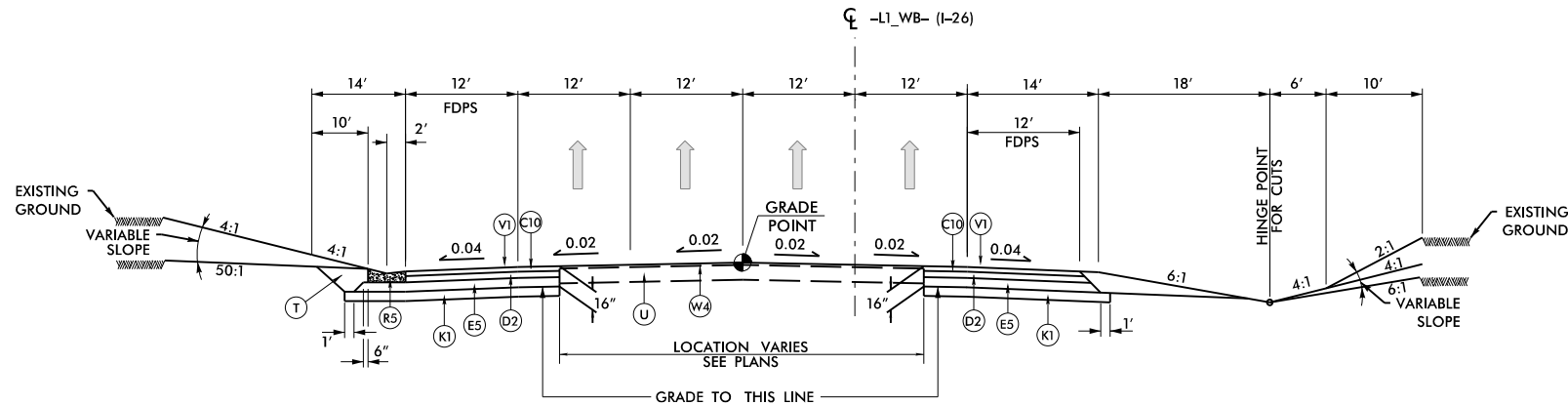
A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
R1	1'-6" C&G		
R2	2'-6" C&G		
R3	8"x18" CURB		
R4	5" MONO ISLAND		
R5	EXPRESS. GUTTER		
R6	SH. BERM GUTTER		
R7	DOUBLE FACE BAR.		
R8	SINGLE SL. BAR.		
R9	PRECAST BARRIER		
R10	BARRIER RAIL		
S	4" CONC. SW.		
T	EARTH MATERIAL		
U	EXIST. PVMT.		
U1	EXIST. C. PVMT.		
U2	EXIST. A. PVMT.		
V1	RUMBLE STRIPS		
V2	1½" MILLING		
V3	VAR. MILLING		
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		

6/2/99
2/8/2022
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J. KING
J. KING



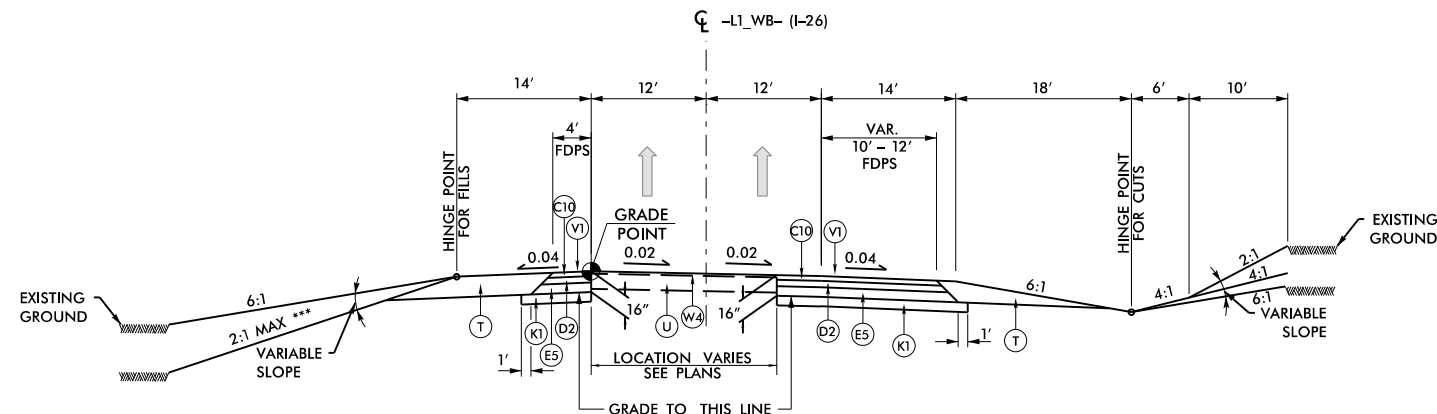
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-L1_EB- STA. 57+13.41 TO 66+10.00



ROADWAY TYPICAL SECTION NO. 7

-L1_WB- STA. 48+15.00 TO 55+00.00



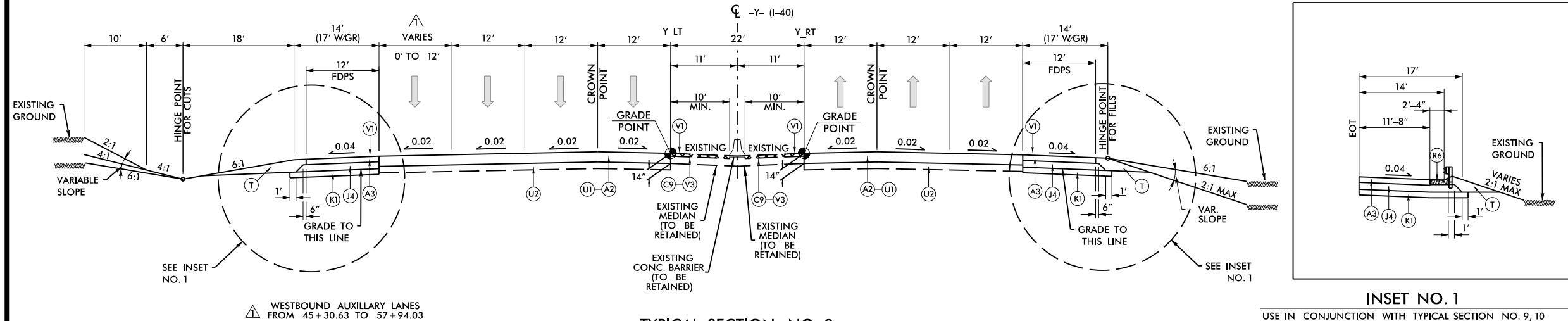
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-L1_WB- STA. 55+00.00 TO 66+00.00

*** USE 4:1 MAX SLOPES INSIDE INTERCHANGE

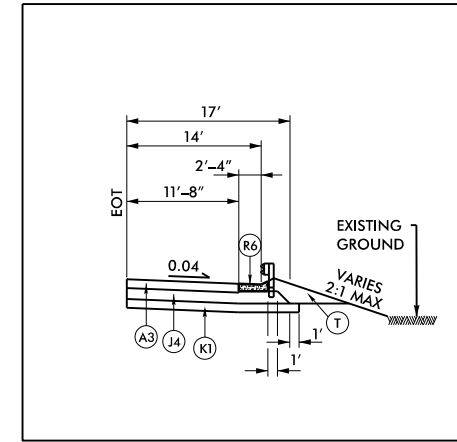
PROJECT REFERENCE NO. 1-2513AA/AB		SHEET NO. 2A-4	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
	R1	1'-6" C&G	
	R2	2'-6" C&G	
	R3	8"x18" CURB	
	R4	5" MONO ISLAND	
	R5	EXPRESS. GUTTER	
	R6	SH. BERM GUTTER	
	R7	DOUBLE FACE BAR.	
	R8	SINGLE SL. BAR.	
	R9	PRECAST BARRIER	
	R10	BARRIER RAIL	
	S	4" CONC. SW.	
	T	EARTH MATERIAL	
	U	EXIST. PVMT.	
	U1	EXIST. C. PVMT.	
	U2	EXIST. A. PVMT.	
	V1	RUMBLE STRIPS	
	V2	1½" MILLING	
	V3	VAR. MILLING	
	W1	WEDGING DET.#1	
	W2	WEDGING DET.#2	



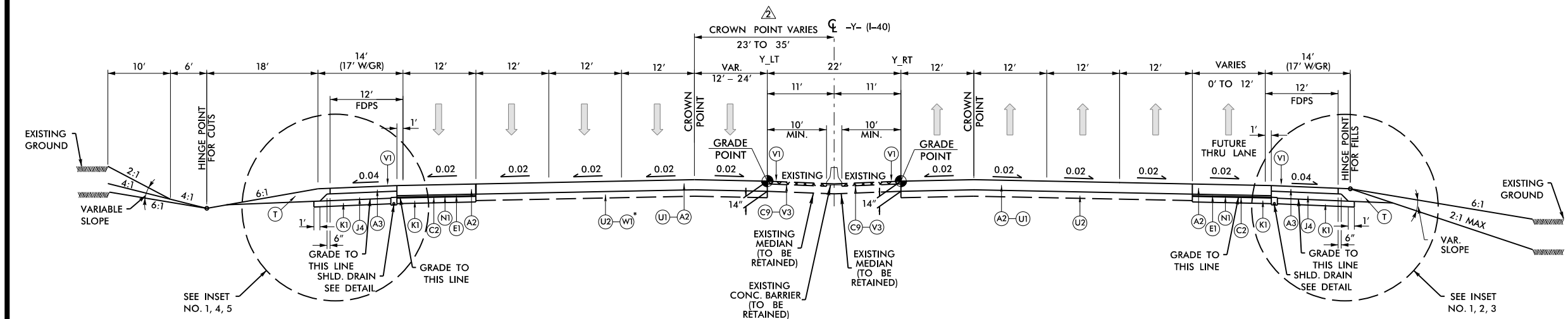
TYPICAL SECTION NO. 9

-Y_LT- STA. 18+80.00 TO 57+94.03
-Y_RT- STA. 18+76.00 TO 52+24.45



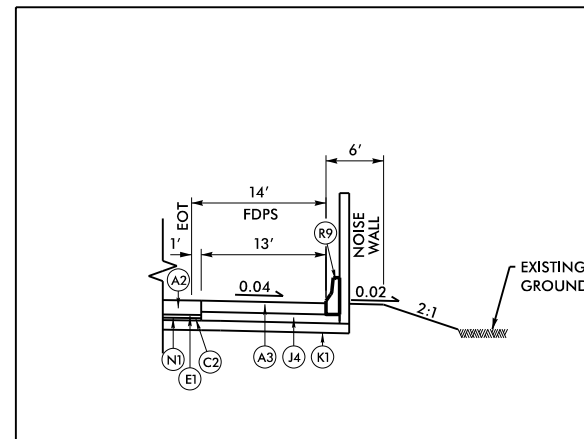
INSET NO. 1

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 9, 10
-Y_RT- STA. 18+80.00 TO 30+13.00 (BRIDGE)
-Y_RT- STA. 36+80.00 TO 45+23.70 (BRIDGE)
-Y_RT- STA. 47+21.72 (BRIDGE) TO 49+32.00
-Y_RT- STA. 54+77.79 (BRIDGE) TO 58+29.35
-Y_LT- STA. 48+15.10 (BRIDGE) TO 53+91.80 (BRIDGE) (MIRROR)
-Y_LT- STA. 65+78.08 TO 76+90.00 (MIRROR)
-Y_LT- STA. 86+60.00 TO 92+44.00 (MIRROR)



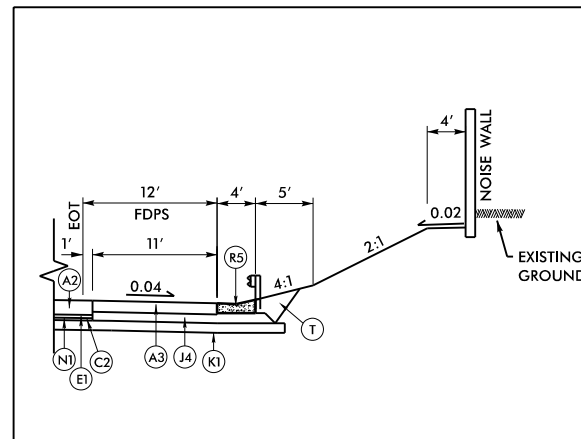
TYPICAL SECTION NO. 10

-Y_LT- STA. 57+94.03 TO 92+44.00
-Y_RT- STA. 52+24.45 TO 92+44.00



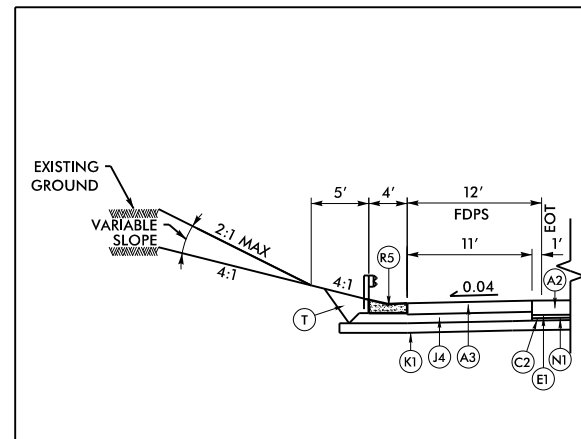
INSET NO. 2

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 10
-Y_RT- STA. 63+70.00 TO 77+70.00
-Y_RT- STA. 89+66.00 TO 92+44.00



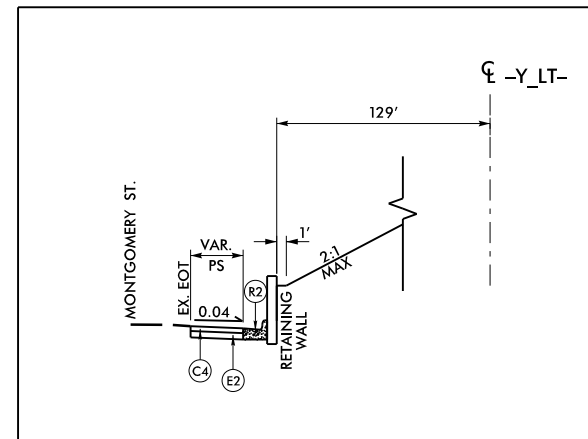
INSET NO. 3

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 10
-Y_RT- STA. 77+70.00 TO 89+66.00



INSET NO. 4

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 10
-Y_LT- STA. 77+00.00 TO 86+50.00



INSET NO. 5 (MONTGOMERY ST.)

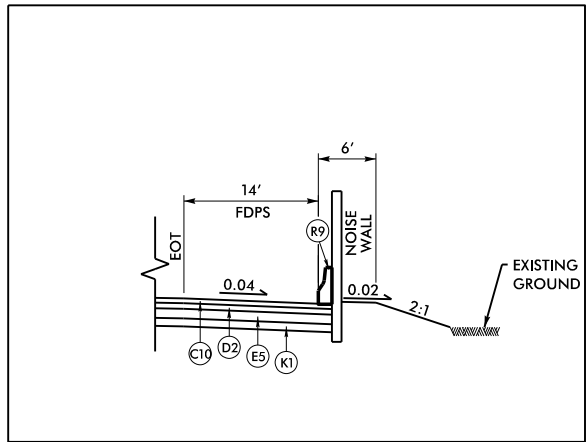
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-Y_LT- STA. 67+50.00 TO 74+38.00

PROJECT REFERENCE NO. 1-2513AA/AB	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7 1/2" B25.0C
C1	1 1/4" S9.5B	E4	8" B25.0C
C2	1 1/2" S9.5B	E5	9" B25.0C
C3	2 1/2" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1 1/2" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1 1/2" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2 1/2" I19.0C	N2	GEO. SOIL STAB.
R1	1'-6" C&G		
R2	2'-6" C&G		
R3	8"x18" CURB		
R4	5" MONO ISLAND		
R5	EXPRESS. GUTTER		
R6	SH. BERM GUTTER		
R7	DOUBLE FACE BAR.		
R8	SINGLE SL. BAR.		
R9	PRECAST BARRIER		
R10	BARRIER RAIL		
S	4" CONC. SW.		
T	EARTH MATERIAL		
U	EXIST. PVMT.		
U1	EXIST. C. PVMT.		
U2	EXIST. A. PVMT.		
V1	RUMBLE STRIPS		
V2	1 1/2" MILLING		
V3	VAR. MILLING		
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		

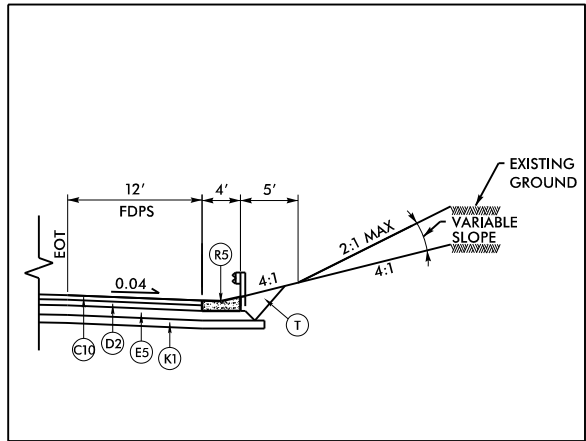
6/2/99

2/8/2022
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2/8/2022



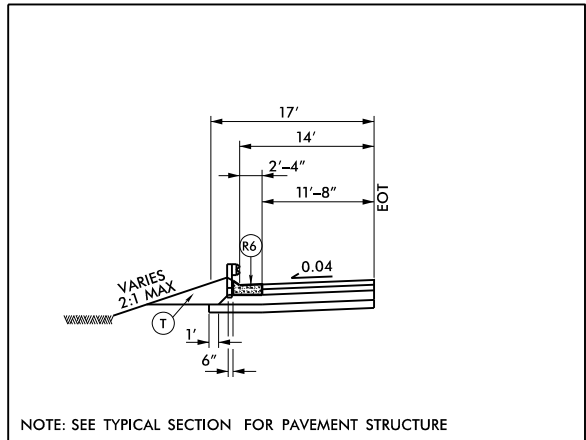
INSET NO. 6

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 11
-Y_EB- STA. 10+00.00 TO 13+55.11



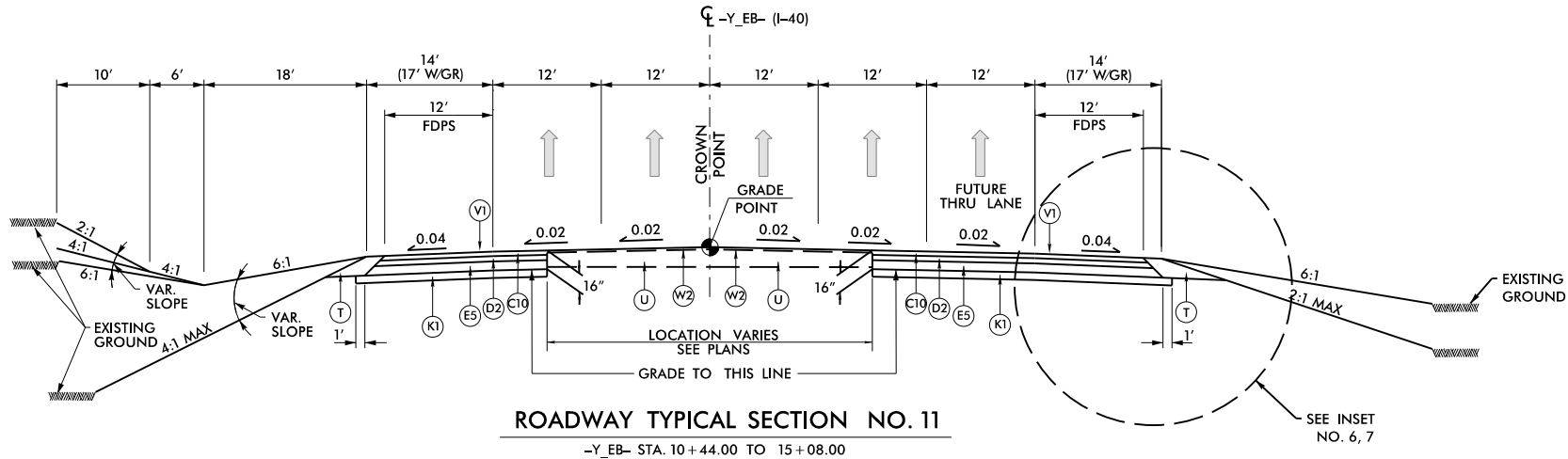
INSET NO. 7

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 11
-Y_EB- STA. 13+55.11 TO 15+08.00



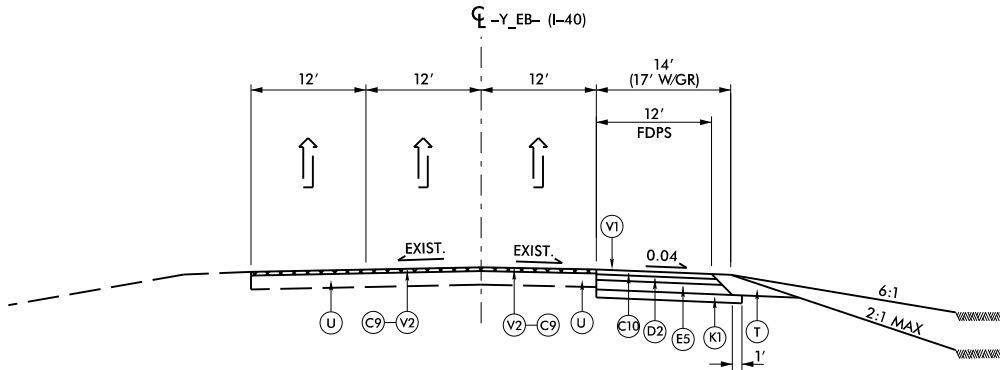
INSET NO. 8

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 13
-Y_WB- STA. 10+44.00 TO 13+45.00



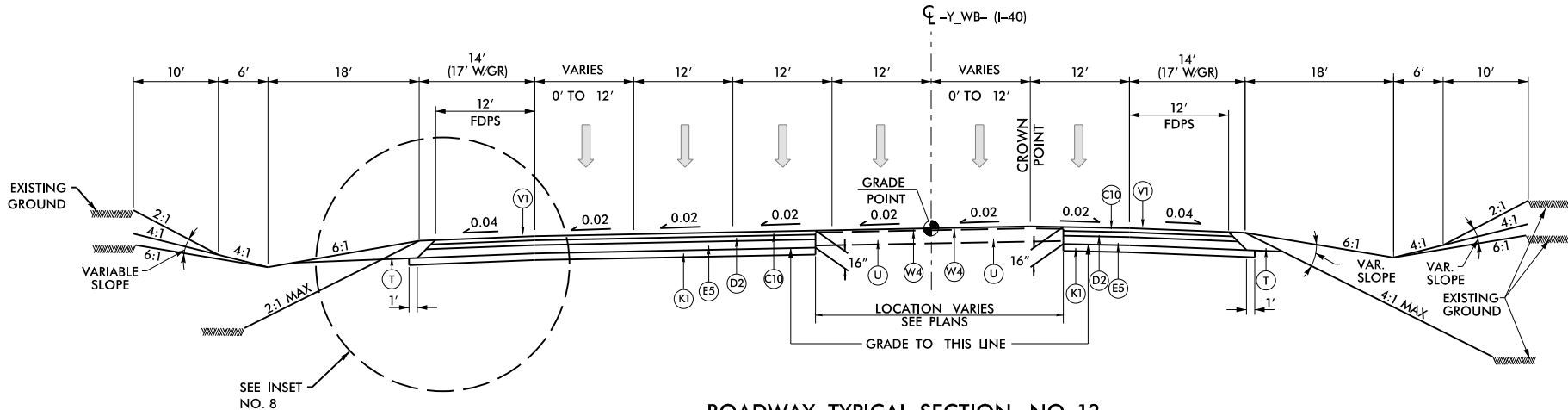
ROADWAY TYPICAL SECTION NO. 11

-Y_EB- STA. 10+44.00 TO 15+08.00



ROADWAY TYPICAL SECTION NO. 12

-Y_EB- STA. 23+69.74 TO 39+00.00

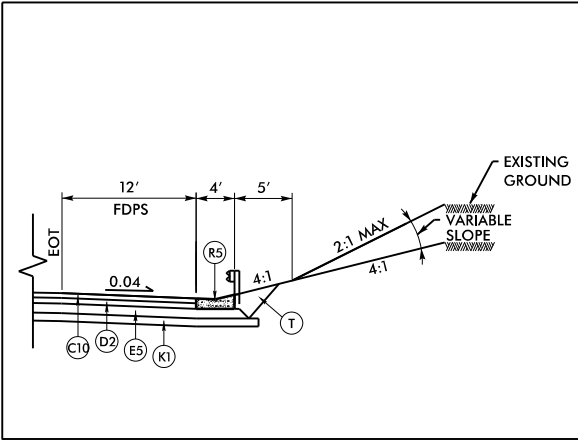


ROADWAY TYPICAL SECTION NO. 13

-Y_WB- STA. 10+44.00 TO 18+70.00

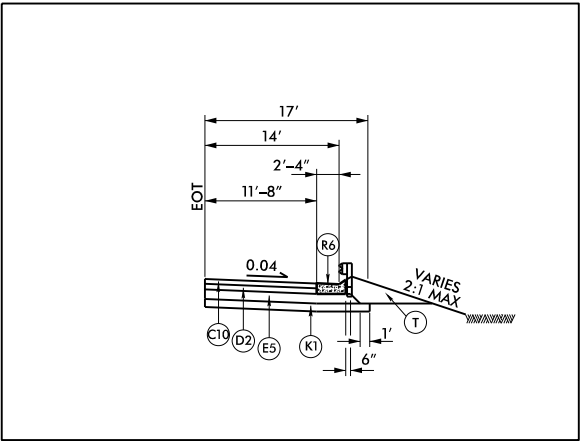
PROJECT REFERENCE NO. 1-2513AA/AB	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
R1	1'-6" C&G		
R2	2'-6" C&G		
R3	8"x18" CURB		
R4	5" MONO ISLAND		
R5	EXPRESS. GUTTER		
R6	SH. BERM GUTTER		
R7	DOUBLE FACE BAR.		
R8	SINGLE SL. BAR.		
R9	PRECAST BARRIER		
R10	BARRIER RAIL		
S	4" CONC. SW.		
T	EARTH MATERIAL		
U	EXIST. PVMT.		
U1	EXIST. C. PVMT.		
U2	EXIST. A. PVMT.		
V1	RUMBLE STRIPS		
V2	1½" MILLING		
V3	VAR. MILLING		
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		



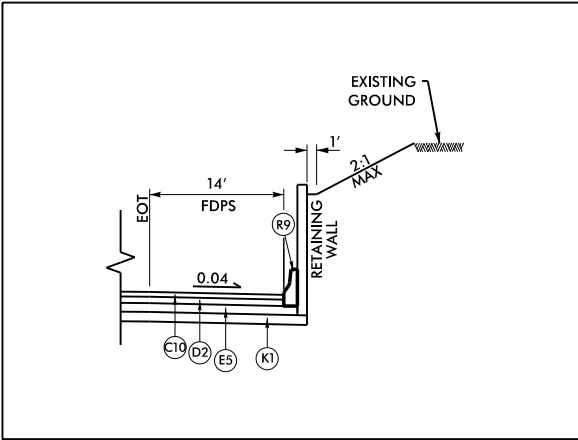
INSET NO. 7

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 14
-RPC- STA. 10+81.25 TO 17+80.32
-RPC- STA. 48+20.00 TO 48+68.45



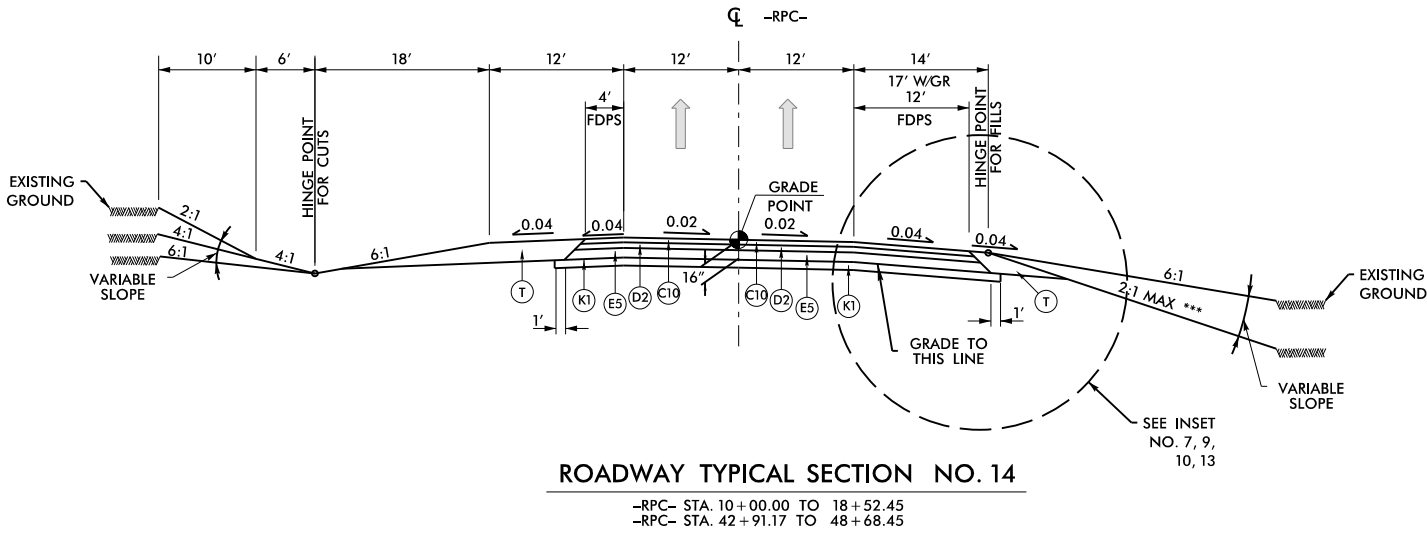
INSET NO. 9

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 14
-RPC- STA. 10+48.34 TO 10+81.25
-RPC- STA. 17+80.32 TO 18+13.15
-RPC- STA. 42+91.17 TO 48+20.00



INSET NO. 10

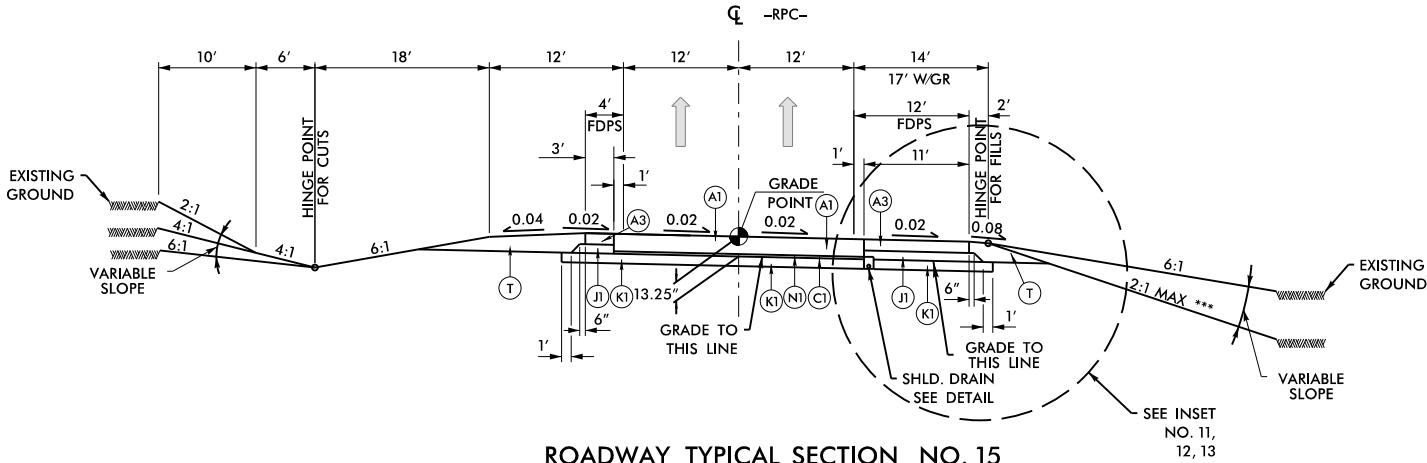
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 14
-RPC- STA. 18+13.15 TO 18+52.45 RT



ROADWAY TYPICAL SECTION NO. 14

-RPC- STA. 10+00.00 TO 18+52.45
-RPC- STA. 42+91.17 TO 48+68.45

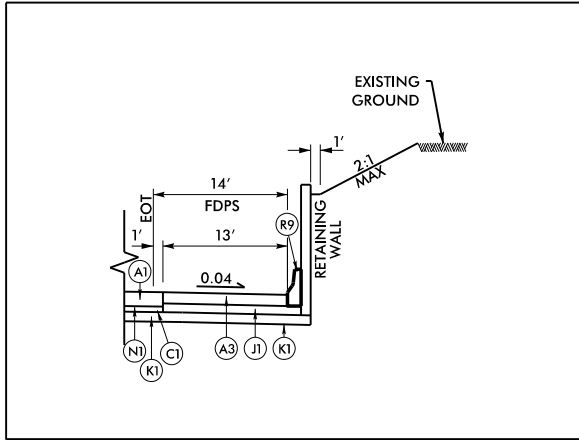
*** USE 4:1 MAX SLOPES INSIDE INTERCHANGE



ROADWAY TYPICAL SECTION NO. 15

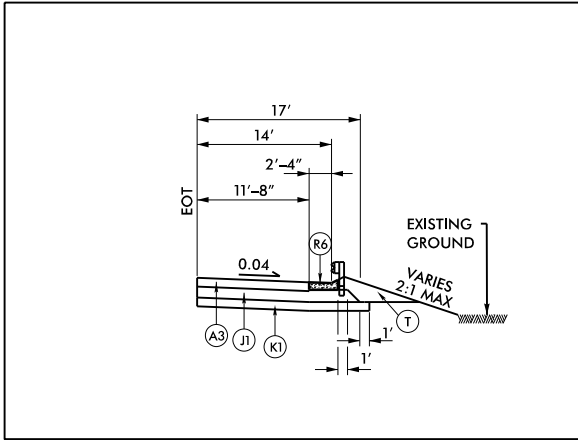
-RPC- STA. 18+52.45 TO 42+91.17

*** USE 4:1 MAX SLOPES INSIDE INTERCHANGE



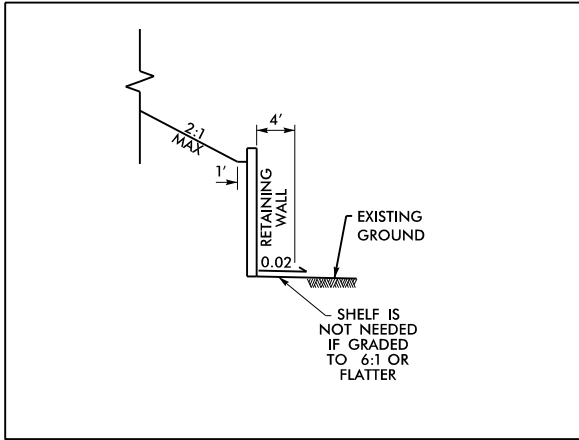
INSET NO. 11

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 15
-RPC- STA. 18+52.45 TO 21+36.15 RT
-RPC- STA. 33+78.15 TO 39+95.15 RT



INSET NO. 12

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 15
-RPC- STA. 21+36.15 TO 33+78.15 RT
-RPC- STA. 39+95.15 TO 42+91.17 RT



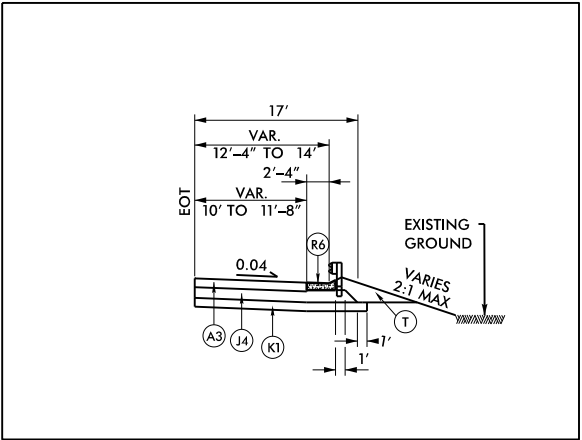
INSET NO. 13

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 14, 15
-RPC- STA. 23+68.60 TO 28+33.15 RT
-RPC- STA. 45+48.15 TO 46+28.15 RT

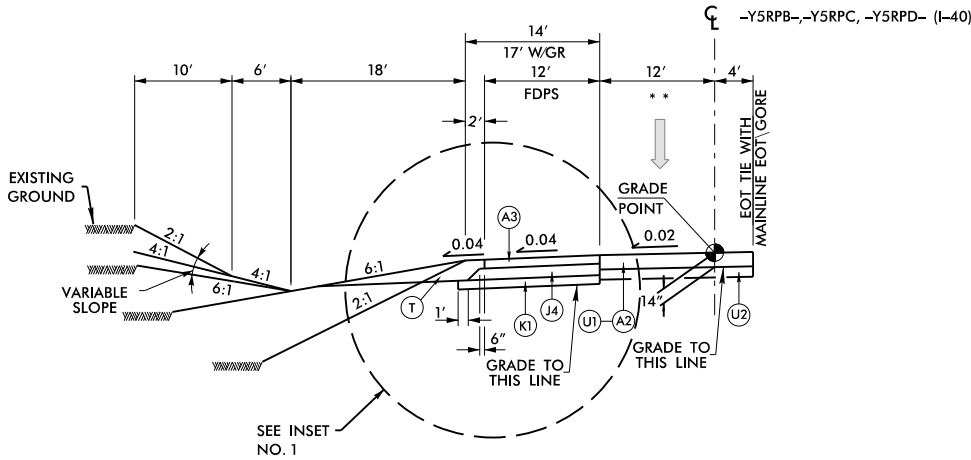
PROJECT REFERENCE NO. 1-2513AA/AB		SHEET NO. 2A-7	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
 KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
R1	1'-6" C&G		
R2	2'-6" C&G		
R3	8"x18" CURB		
R4	5" MONO ISLAND		
R5	EXPRESS. GUTTER		
R6	SH. BERM GUTTER		
R7	DOUBLE FACE BAR.		
R8	SINGLE SL. BAR.		
R9	PRECAST BARRIER		
R10	BARRIER RAIL		
S	4" CONC. SW.		
T	EARTH MATERIAL		
U	EXIST. PVMT.		
U1	EXIST. C. PVMT.		
U2	EXIST. A. PVMT.		
V1	RUMBLE STRIPS		
V2	1½" MILLING		
V3	VAR. MILLING		
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		

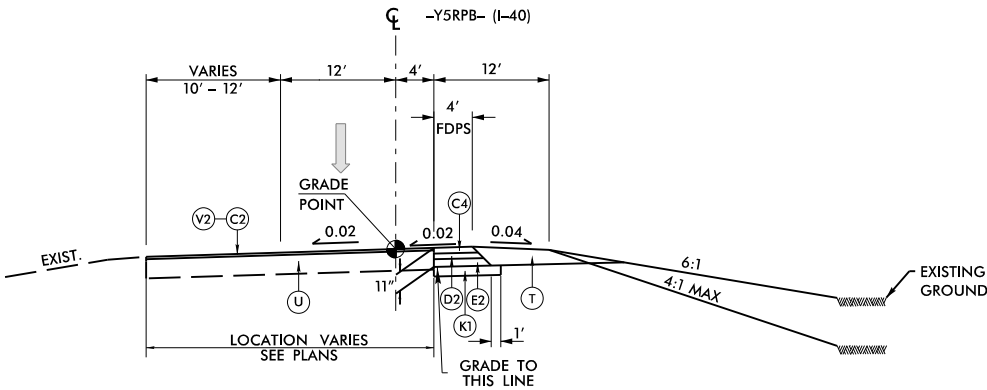
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2/8/2022
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J. KING
J. KING



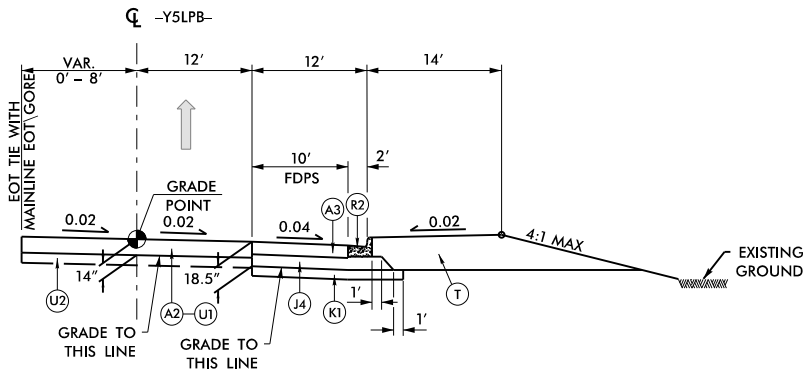
INSET NO. 1
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 18
-Y5RPB- STA. 12+35.00 TO 13+15.00 (MIRROR)
-Y5RPC- STA. 10+00.00 TO 15+65.00
-Y5RPD- STA. 10+00.00 TO 12+77.06 (MIRROR)



ROADWAY TYPICAL SECTION NO. 18
-Y5RPB- STA. 10+00.00 TO 13+15.00
-Y5RPC- STA. 10+00.00 TO 15+65.00
-Y5RPD- STA. 10+00.00 TO 12+77.06



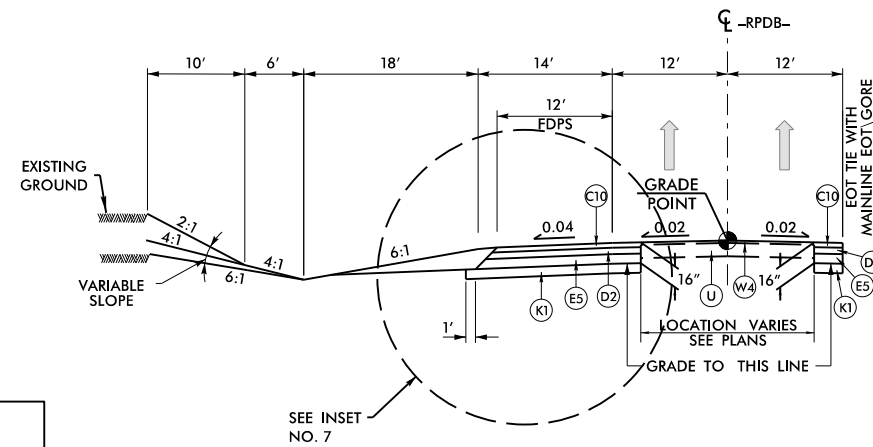
ROADWAY TYPICAL SECTION NO. 19
-Y5RPB- STA. 13+15.00 TO 13+80.00



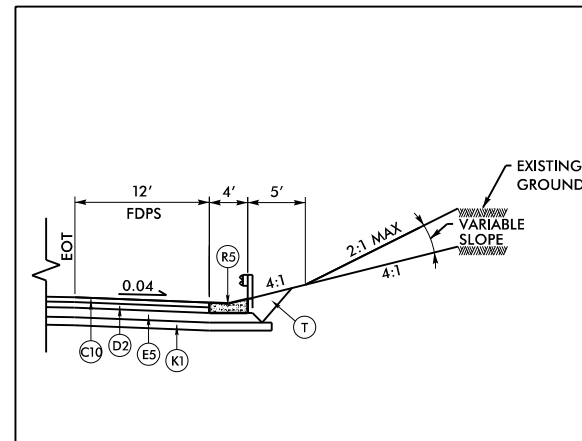
ROADWAY TYPICAL SECTION NO. 20
-Y5LPB- STA. 10+00.00 TO 12+84.28

PROJECT REFERENCE NO.	SHEET NO.
1-2513AA/AB	2A-9
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
R1	1'-6" C&G		
R2	2'-6" C&G		
R3	8"x18" CURB		
R4	5" MONO ISLAND		
R5	EXPRESS. GUTTER		
R6	SH. BERM GUTTER		
R7	DOUBLE FACE BARRIER		
R8	SINGLE SL. BARRIER		
R9	PRECAST BARRIER		
R10	BARRIER RAIL		
S	4" CONC. SW.		
T	EARTH MATERIAL		
U	EXIST. PVMT.		
U1	EXIST. C. PVMT.		
U2	EXIST. A. PVMT.		
V1	RUMBLE STRIPS		
V2	1½" MILLING		
V3	VAR. MILLING		
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		

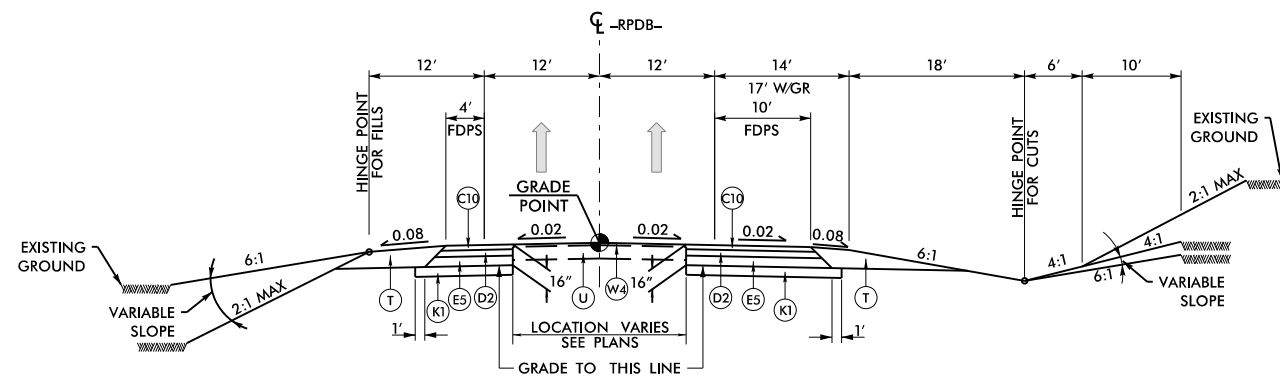


TYPICAL SECTION NO. 21
 -RPDB- STA. 11+73.69 TO 17+29.56

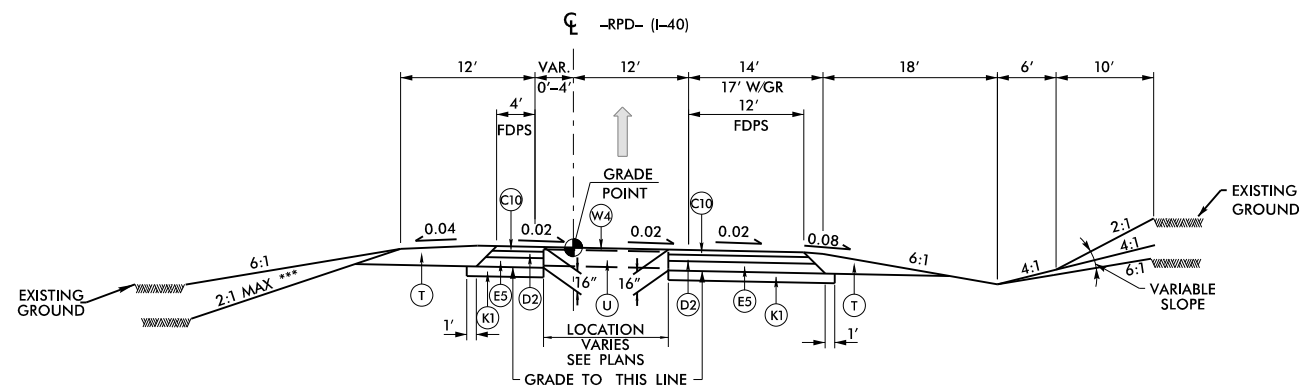


INSET NO. 7

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 21
-RPDB- STA. 11+73.69 TO 15+00.00 LT (MIRROR)

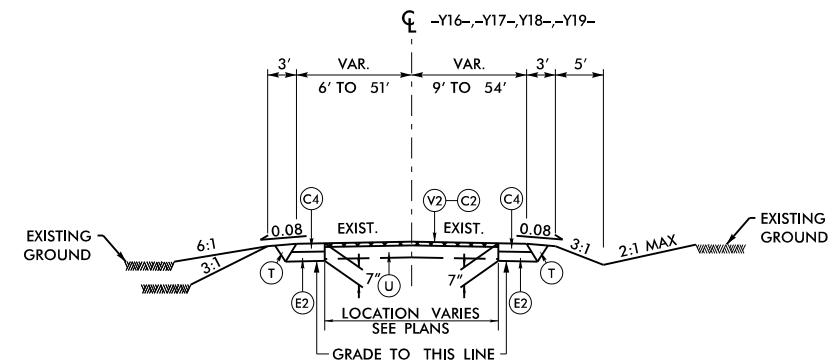


TYPICAL SECTION NO. 22
 -RPDB- STA. 17+29.56 TO 20+70.00



ROADWAY TYPICAL SECTION NO. 23
-RPD- STA. 10+00.00 TO 16+96.30

*** USE 4:1 MAX SLOPES INSIDE INTERCHANGE



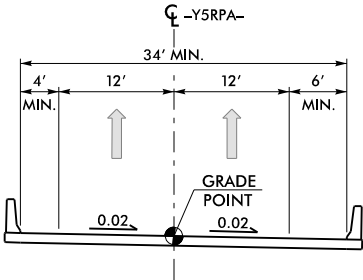
TYPICAL SECTION NO. 24
(CUL-DE-SACS)

PROJECT REFERENCE NO.		SHEET NO.	
1-25/3AA/AB		2A-10	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
 KCI KCI CONSULTANTS, INC. http://www.kci.com		Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-0214 • Fax (919) 783-0266	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

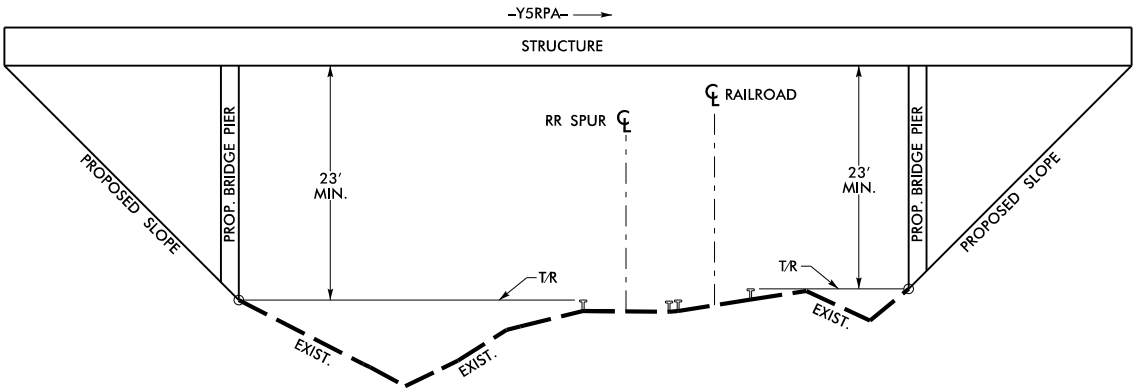
A1	12" PCC PAVE.	D2	4" I19.0C
A2	14" CONC. PAVE.	D3	VAR. I19.0C
A3	8" RCP	E1	3" B25.0C
A4	7" CONC. PAVE.	E2	4" B25.0C
A5	6" CONC. PAVE.	E3	7½" B25.0C
C1	1¼" S9.5B	E4	8" B25.0C
C2	1½" S9.5B	E5	9" B25.0C
C3	2½" S9.5B	E6	VAR. B25.0C
C4	3" S9.5B	J1	5.25" ABC
C5	VAR. S9.5B	J2	6" ABC
C6	1½" S9.5C	J3	8" ABC
C7	3" S9.5C	J4	10.5" ABC
C8	VAR. S9.5C	J5	VAR. ABC
C9	1½" S9.5D	K1	8" CHEM. STAB.
C10	3" S9.5D	K2	CL IV SUB. STAB.
C11	VAR. S9.5D	N1	NONWOVEN GEO.
D1	2½" I19.0C	N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. PVMT.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
W1	WEDGING DET.#1		
W2	WEDGING DET.#2		

6/2/99

BRIDGE AT -Y5RPA- STA. 20+16.24
OVER NORFOLK SOUTHERN RAILROAD



STRUCTURE TYPICAL SECTION



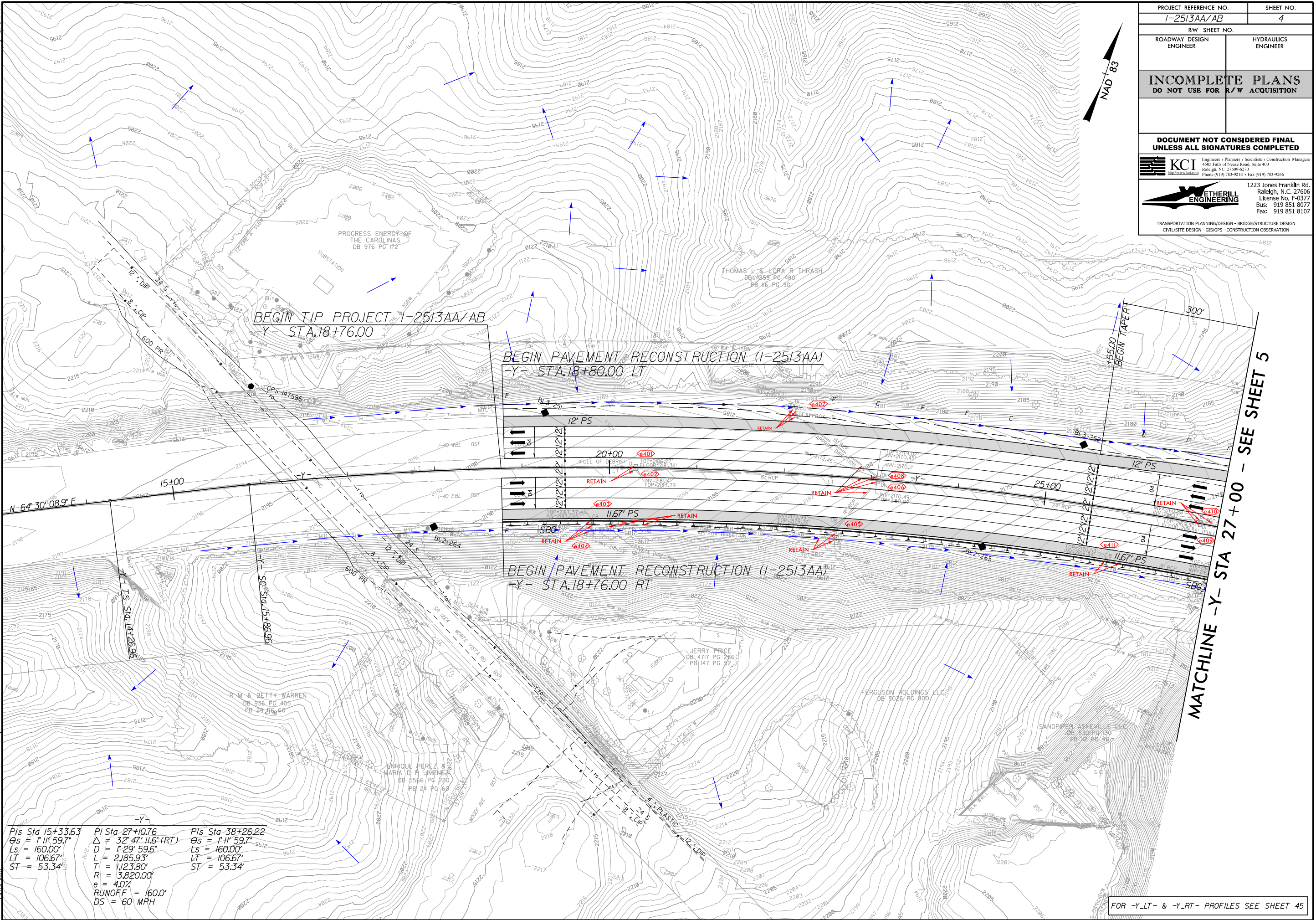
TYPICAL SECTION UNDER STRUCTURE
-Y5RPA- OVER BLUE RIDGE SOUTHERN RAILROAD

PROJECT REFERENCE NO.		SHEET NO.	
I-25/3AA/AB		2A-II	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

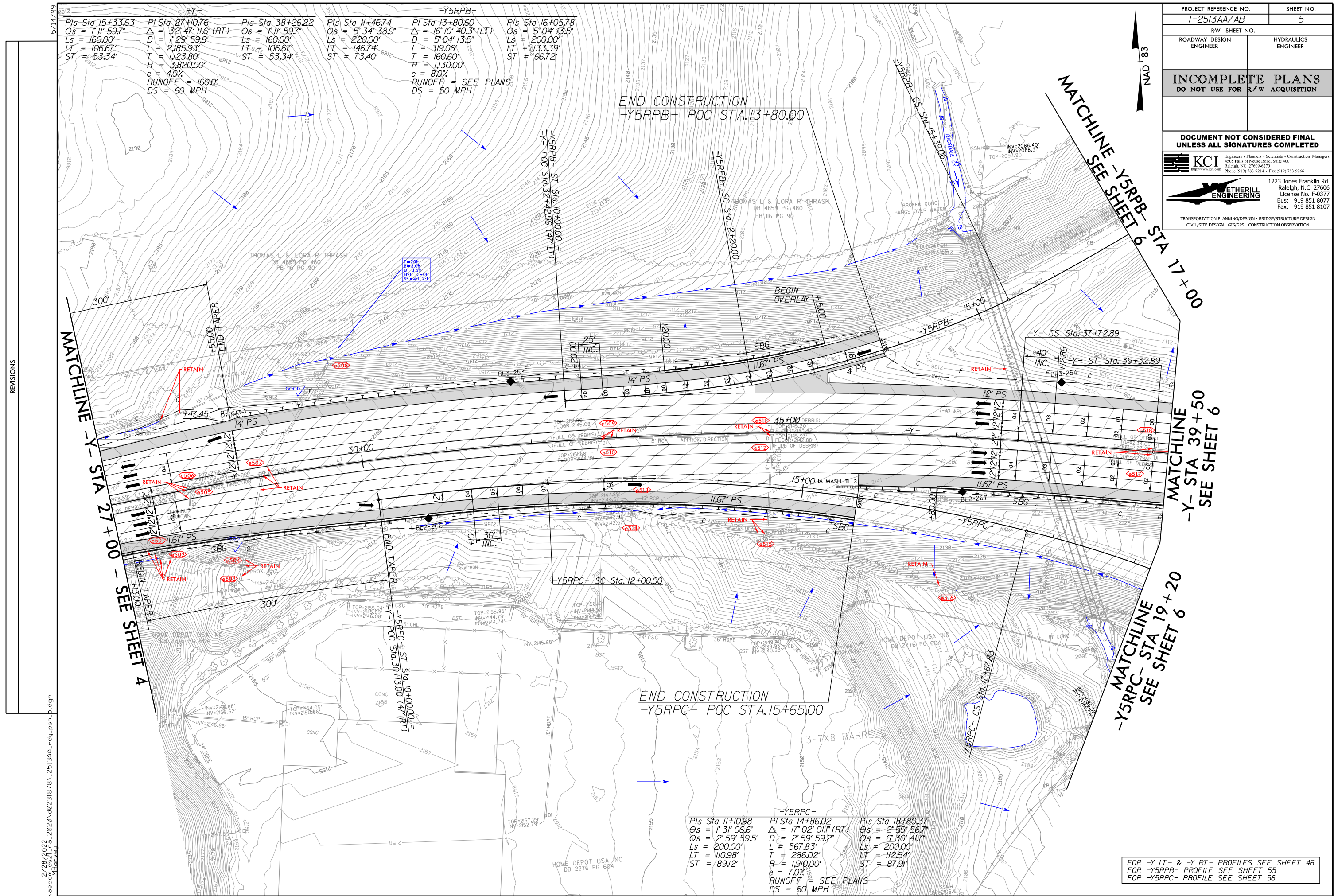
5/14/99

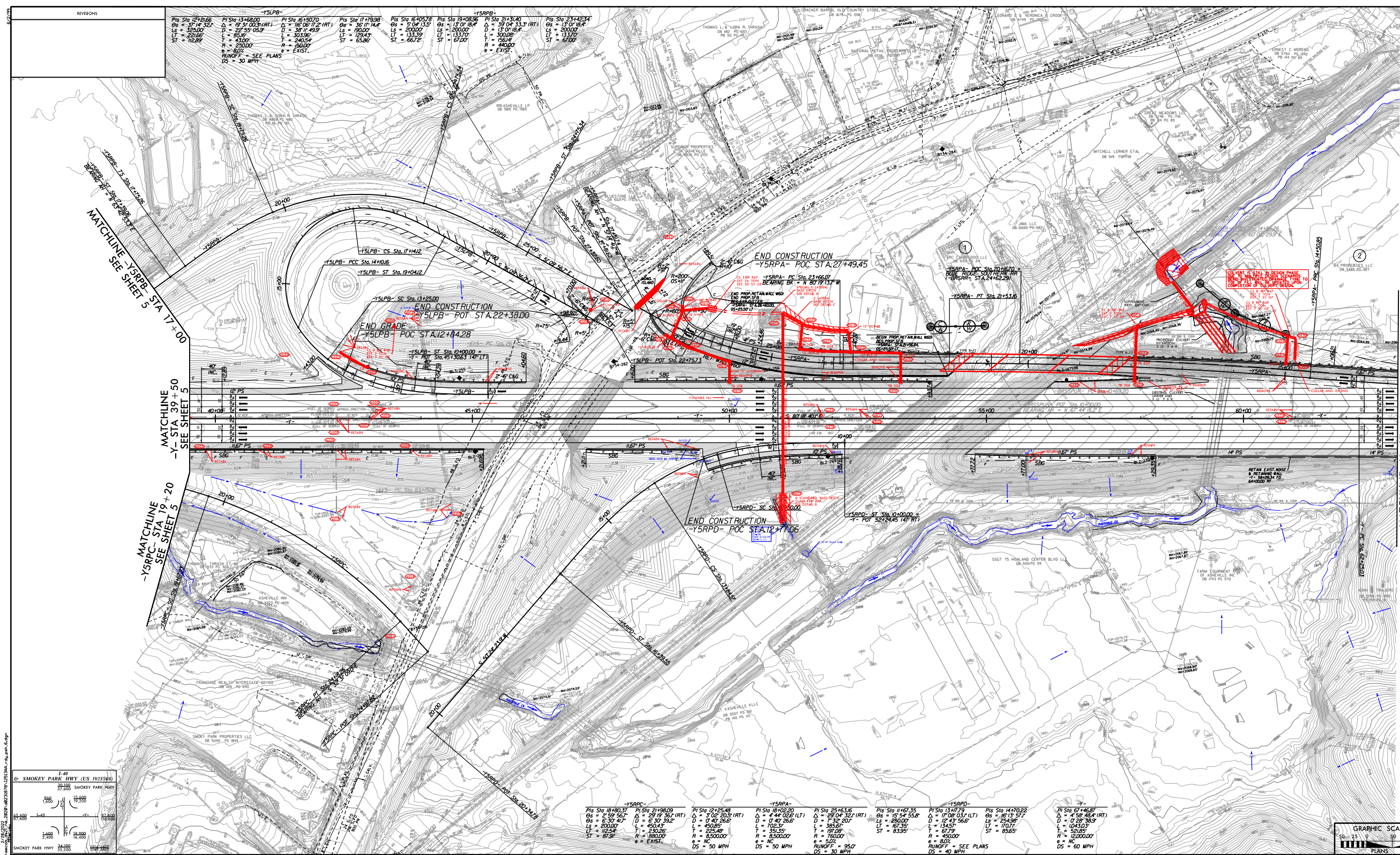
REVISIONS

2/28/2022
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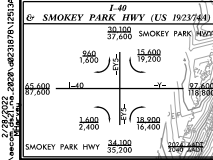


PROJECT REFERENCE NO.	1-2513AA/AB	SHEET NO.	5
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-4266			
 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bu: 919 851 8077 Fax: 919 851 8107			
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION			





REVISIONS	
1	Y5LPB- POC STA 12+12.06
2	Y5LPB- POC STA 12+12.06
3	Y5LPB- POC STA 12+12.06
4	Y5LPB- POC STA 12+12.06
5	Y5LPB- POC STA 12+12.06
6	Y5LPB- POC STA 12+12.06
7	Y5LPB- POC STA 12+12.06
8	Y5LPB- POC STA 12+12.06
9	Y5LPB- POC STA 12+12.06
10	Y5LPB- POC STA 12+12.06
11	Y5LPB- POC STA 12+12.06
12	Y5LPB- POC STA 12+12.06
13	Y5LPB- POC STA 12+12.06
14	Y5LPB- POC STA 12+12.06
15	Y5LPB- POC STA 12+12.06
16	Y5LPB- POC STA 12+12.06
17	Y5LPB- POC STA 12+12.06
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30	Y5LPB- POC STA 12+12.06
31	Y5LPB- POC STA 12+12.06
32	Y5LPB- POC STA 12+12.06
33	Y5LPB- POC STA 12+12.06
34	Y5LPB- POC STA 12+12.06
35	Y5LPB- POC STA 12+12.06
36	Y5LPB- POC STA 12+12.06
37	Y5LPB- POC STA 12+12.06
38	Y5LPB- POC STA 12+12.06
39	Y5LPB- POC STA 12+12.06
40	Y5LPB- POC STA 12+12.06
41	Y5LPB- POC STA 12+12.06
42	Y5LPB- POC STA 12+12.06
43	Y5LPB- POC STA 12+12.06
44	Y5LPB- POC STA 12+12.06
45	Y5LPB- POC STA 12+12.06
46	Y5LPB- POC STA 12+12.06
47	Y5LPB- POC STA 12+12.06
48	Y5LPB- POC STA 12+12.06
49	Y5LPB- POC STA 12+12.06
50	Y5LPB- POC STA 12+12.06
51	Y5LPB- POC STA 12+12.06
52	Y5LPB- POC STA 12+12.06
53	Y5LPB- POC STA 12+12.06
54	Y5LPB- POC STA 12+12.06
55	Y5LPB- POC STA 12+12.06
56	Y5LPB- POC STA 12+12.06
57	Y5LPB- POC STA 12+12.06
58	Y5LPB- POC STA 12+12.06
59	Y5LPB- POC STA 12+12.06
60	Y5LPB- POC STA 12+12.06
61	Y5LPB- POC STA 12+12.06
62	Y5LPB- POC STA 12+12.06
63	Y5LPB- POC STA 12+12.06
64	Y5LPB- POC STA 12+12.06
65	Y5LPB- POC STA 12+12.06
66	Y5LPB- POC STA 12+12.06
67	Y5LPB- POC STA 12+12.06
68	Y5LPB- POC STA 12+12.06
69	Y5LPB- POC STA 12+12.06
70	Y5LPB- POC STA 12+12.06
71	Y5LPB- POC STA 12+12.06
72	Y5LPB- POC STA 12+12.06
73	Y5LPB- POC STA 12+12.06
74	Y5LPB- POC STA 12+12.06
75	Y5LPB- POC STA 12+12.06
76	Y5LPB- POC STA 12+12.06
77	Y5LPB- POC STA 12+12.06
78	Y5LPB- POC STA 12+12.06
79	Y5LPB- POC STA 12+12.06
80	Y5LPB- POC STA 12+12.06
81	Y5LPB- POC STA 12+12.06
82	Y5LPB- POC STA 12+12.06
83	Y5LPB- POC STA 12+12.06
84	Y5LPB- POC STA 12+12.06
85	Y5LPB- POC STA 12+12.06
86	Y5LPB- POC STA 12+12.06
87	Y5LPB- POC STA 12+12.06
88	Y5LPB- POC STA 12+12.06
89	Y5LPB- POC STA 12+12.06
90	Y5LPB- POC STA 12+12.06
91	Y5LPB- POC STA 12+12.06
92	Y5LPB- POC STA 12+12.06
93	Y5LPB- POC STA 12+12.06
94	Y5LPB- POC STA 12+12.06
95	Y5LPB- POC STA 12+12.06
96	Y5LPB- POC STA 12+12.06
97	Y5LPB- POC STA 12+12.06
98	Y5LPB- POC STA 12+12.06
99	Y5LPB- POC STA 12+12.06
100	Y5LPB- POC STA 12+12.06



Y5RPC		Y5RPA		Y5RPD	
Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37
Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"
LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"
L = 200.00	L = 200.00	L = 200.00	L = 200.00	L = 200.00	L = 200.00
T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'
ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'
R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'
e = NC	e = NC	e = NC	e = NC	e = NC	e = NC
DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH

Y5RPC		Y5RPA		Y5RPD	
Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37	Pl Sta 18+490.37
Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"	Δ = 2° 59' 56.7"
LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"	LS = 6' 30' 47"
L = 200.00	L = 200.00	L = 200.00	L = 200.00	L = 200.00	L = 200.00
T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'	T = 112.54'
ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'	ST = 67.50'
R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'	R = 8500.00'
e = NC	e = NC	e = NC	e = NC	e = NC	e = NC
DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH	DS = 50 MPH

PROJECT REFERENCE NO. 1-25142/AB

SHEET NO. 6

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS

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KCI

1223 SMOKE FINCH BLVD

SMOKEY PARK, TN 37609

TEL: 919 851 8077

FAX: 919 851 8077

★ REVISED SIGNAL

FOR -Y-LT- & -Y-RT- PROFILES SEE SHEETS 47 & 48

FOR -Y5RPA- PROFILE SEE SHEET 55

FOR -Y5RPC- PROFILE SEE SHEET 55

FOR -Y5RPD- PROFILE SEE SHEET 56

FOR -Y5LPB- PROFILE SEE SHEET 57

LOCATION:

TP NO.:

COUNTY:

DESIGNED BY:

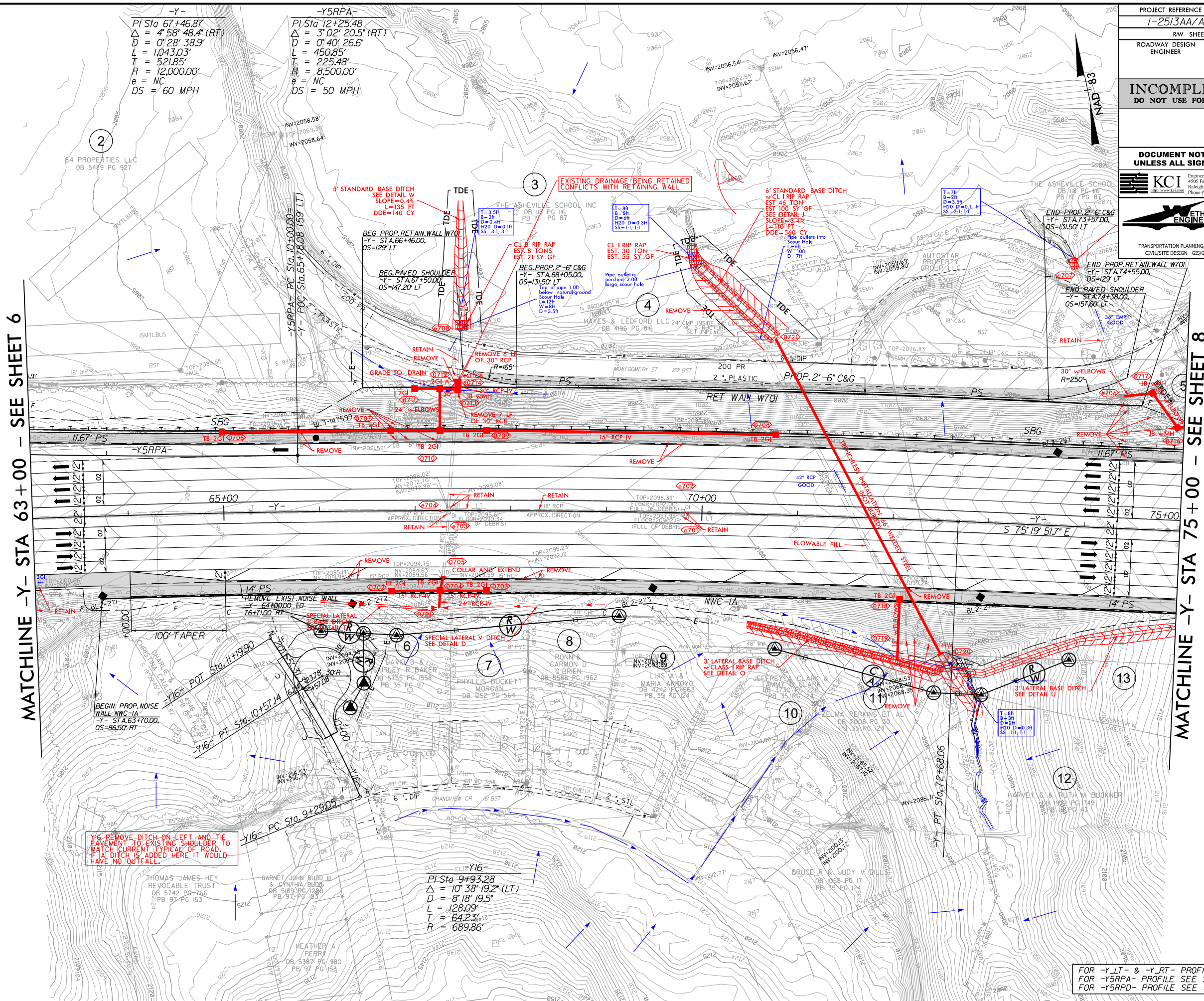
CHECKED BY:

DATE:

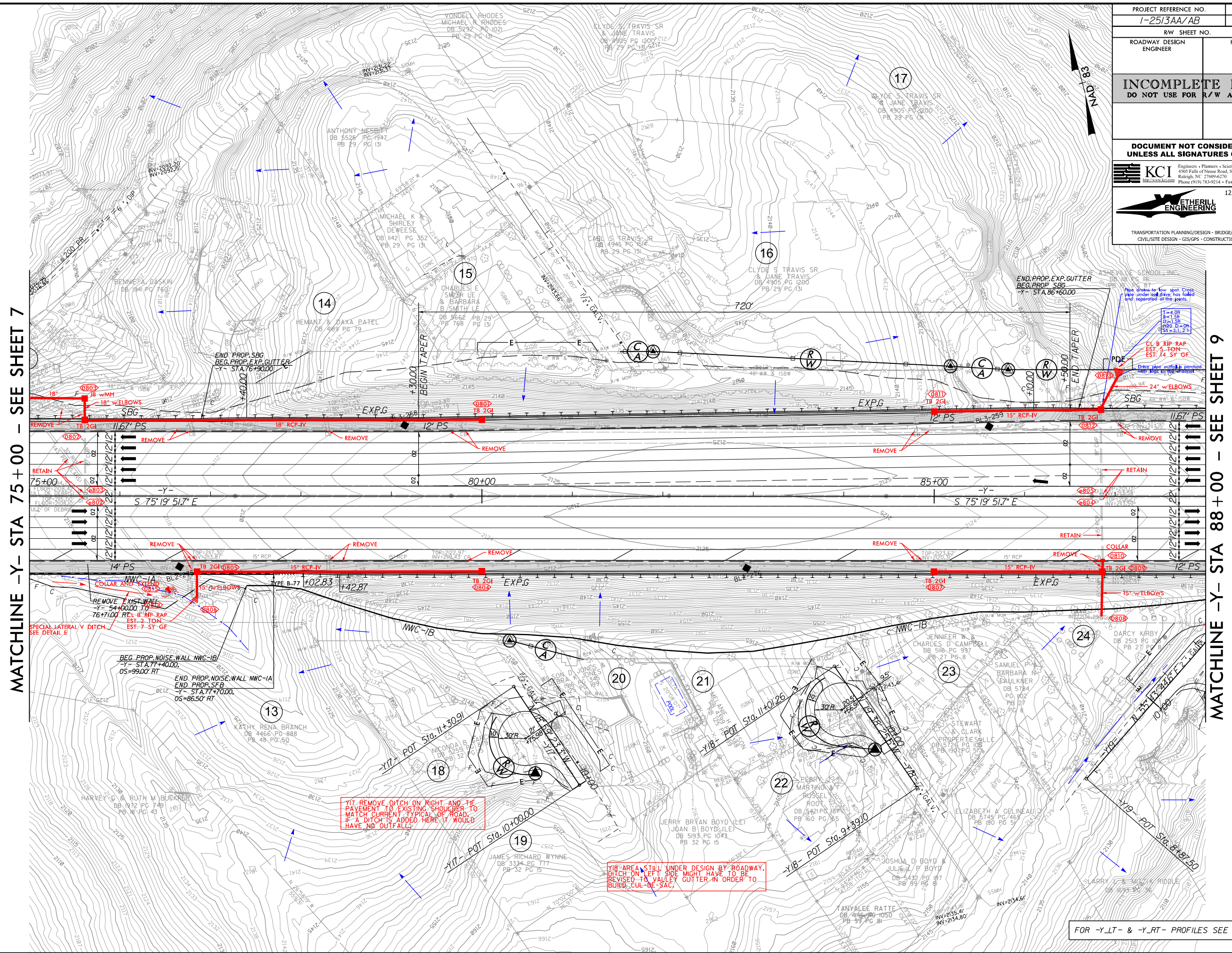
GRAPHIC SCALE

1" = 140'

PLANS



FOR -Y_LT- & -Y_RT- PROFILES SEE SHEET 49
FOR -Y5RPA- PROFILE SEE SHEET 55
FOR -Y5RPD- PROFILE SEE SHEET 57



FOR -Y_LT- & -Y_RT- PROFILES SEE SHEET 50

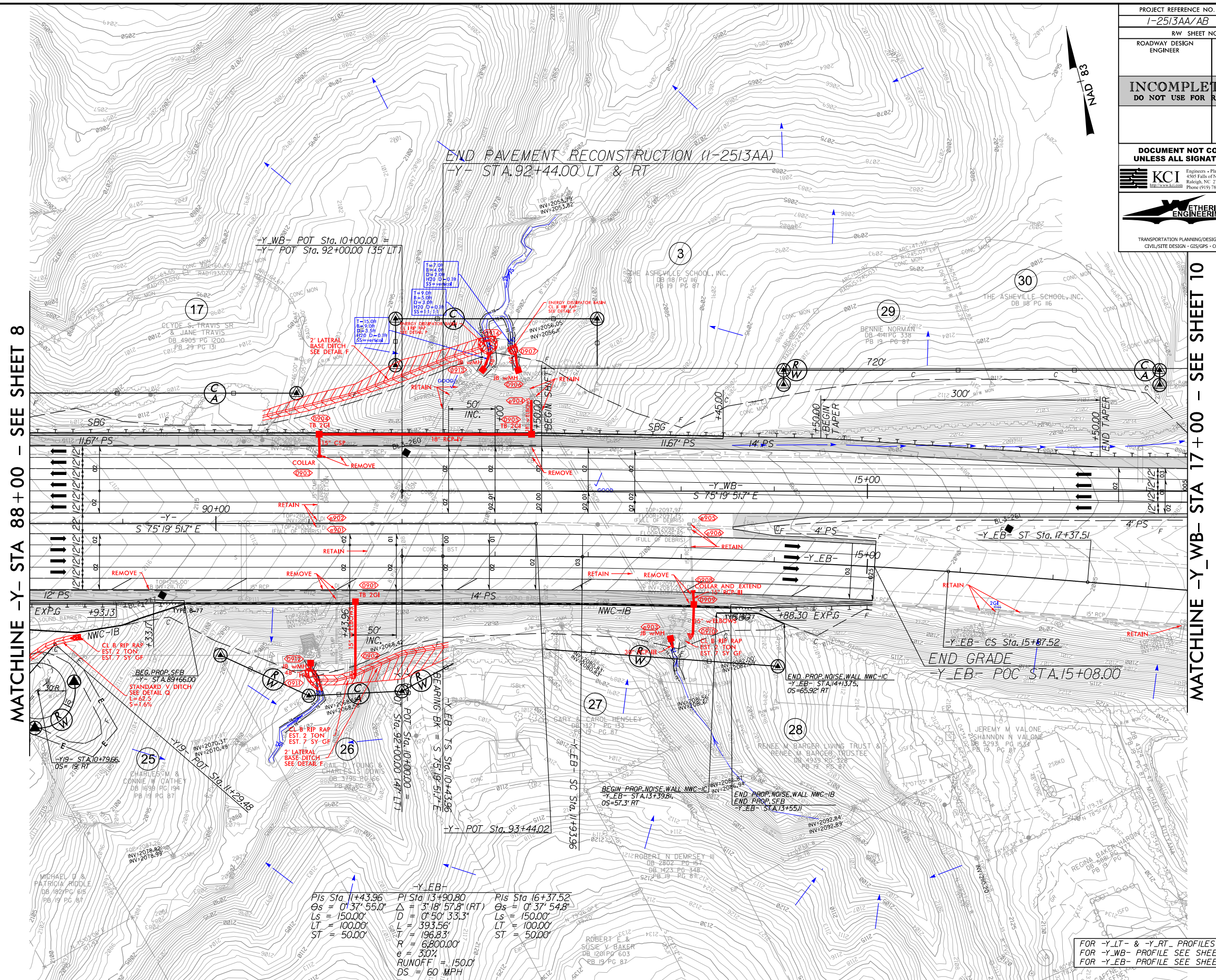
MATCHLINE -Y- STA 75+00 - SEE SHEET 7

MATCHLINE -Y- STA 88+00 - SEE SHEET 9

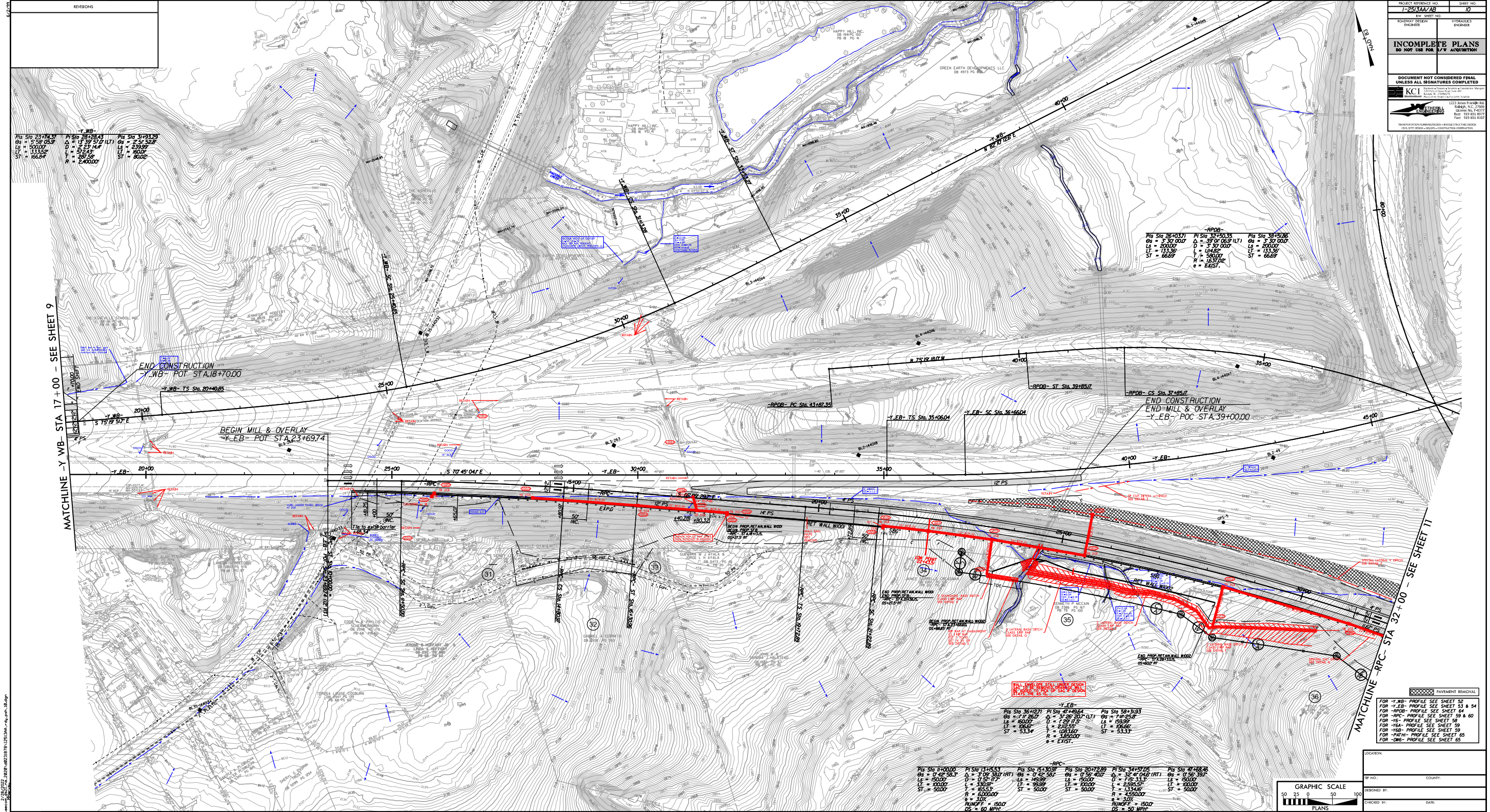
REVISIONS

5/14/99

2/28/2022
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MHarvell



FOR -Y_LT- & -Y_RT_ PROFILES SEE SHEET 51
FOR -Y_WB- PROFILE SEE SHEET 52
FOR -Y_EB- PROFILE SEE SHEET 53



REVISIONS	

Sta 21+74.3 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 28+28.43 G = 13.39 57.0 (LT) L = 273.44 T = 57.59 ST = 240.00	Sta 31+93.29 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69
--	---	---

Sta 26+03.71 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 32+50.35 G = 5.58 0.59 (LT) L = 100.00 T = 133.50 ST = 66.69	Sta 38+49.86 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69
---	--	---

Sta 36+12.71 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 41+49.64 G = 5.58 0.59 (LT) L = 100.00 T = 133.50 ST = 66.69	Sta 58+31.03 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69
---	--	---

Sta 11+20.00 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 13+16.51 G = 5.58 0.59 (LT) L = 100.00 T = 133.50 ST = 66.69	Sta 14+10.91 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 20+72.89 G = 5.58 0.59 (LT) L = 100.00 T = 133.50 ST = 66.69	Sta 31+27.25 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69	Sta 41+49.86 G = 5.58 0.59 L = 100.00 T = 133.50 ST = 66.69
---	--	---	--	---	---

PROJECT REFERENCE NO. 1-25144/AB

SHEET NO. 17

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

INCOMPLETE PLANS
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KCI ENGINEERS

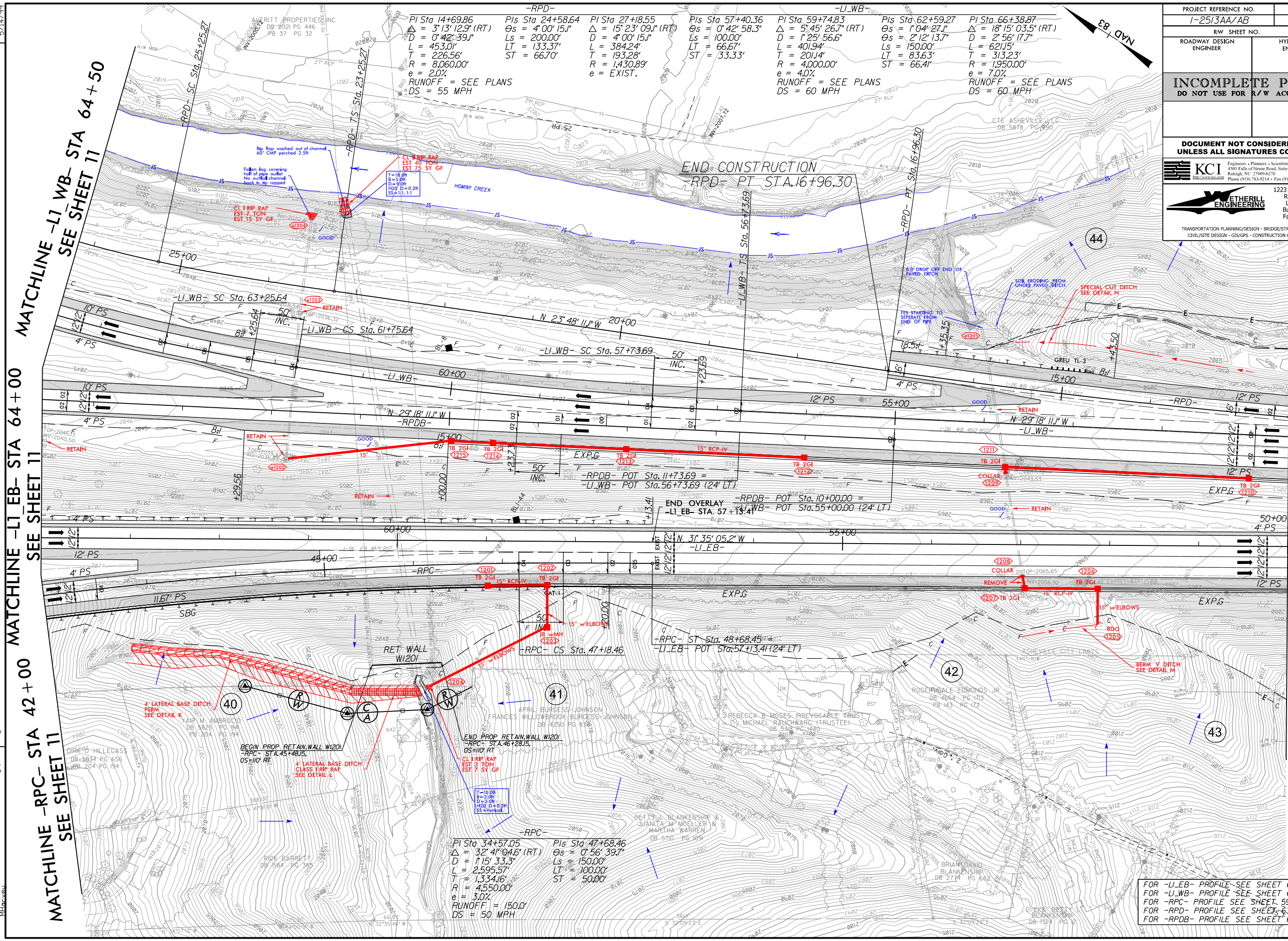
1223 Stone Farm Rd.
Tomball, TX 77365
713.345.8800
Fax: 713.345.8807

GRAPHIC SCALE
0 25 50 100
PLANS

FOR -Y-WB- PROFILE SEE SHEET 52
FOR -Y-EB- PROFILE SEE SHEET 53 & 54
FOR -RPC- PROFILE SEE SHEET 54
FOR -RPC- PROFILE SEE SHEET 59 & 60
FOR -Y-EB- PROFILE SEE SHEET 59
FOR -Y-EB- PROFILE SEE SHEET 59
FOR -Y-EB- PROFILE SEE SHEET 59
FOR -Y-EB- PROFILE SEE SHEET 59

LOCATION: _____

DATE: _____



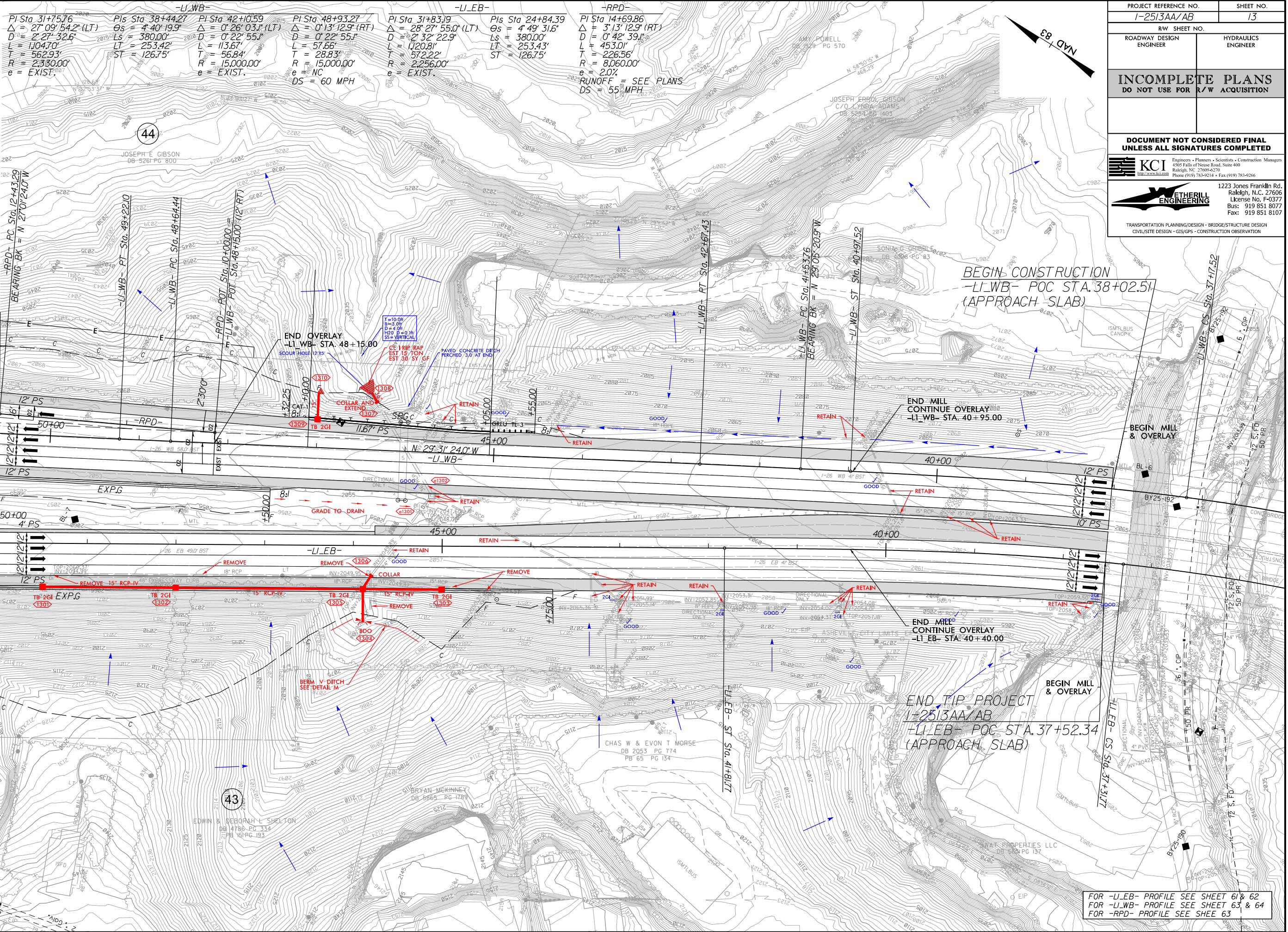
FOR -U-EB- PROFILE SEE SHEET 61 & 62
FOR -U-WB- PROFILE SEE SHEET 62 & 63
FOR -RPC- PROFILE SEE SHEET 59 & 60
FOR -RPD- PROFILE SEE SHEET 63
FOR -RPDB- PROFILE SEE SHEET 64

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2/28/2022
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REVISIONS

MATCHLINE -LI EB- STA 50+00 - SEE SHEET 12



PROJECT REFERENCE NO. 1-2513AA/AB		SHEET NO. 13	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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 KCI Engineers • Planners • Scientists • Construction Managers Raleigh, NC 27606-6270 Phone (919) 783-9214 • Fax (919) 783-9266		 ETHERILL ENGINEERING 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION			

FOR -LI.EB- PROFILE SEE SHEET 61 & 62
FOR -LI.WB- PROFILE SEE SHEET 63 & 64
FOR -RPD- PROFILE SEE SHEET 63

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

1-2513AA/AB

SHEET NO.

14

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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-Y_LT-

BEGIN GRADE

-Y_LT- STA. 18+80.00
EL = 2189.77'

PI = 19+85.00
EL = 2188.25'
VC = 200'
K = 161

PI = 22+80.00
EL = 2180.32'
VC = 180'
K = 850

PI = 25+20.00
EL = 2173.36'
VC = 180'
K = 396

FOR -Y_LT- PLAN VIEW SEE SHEET 13

NOTE: EXISTING GROUND SHOWN AT GRADE POINT
(11' O/S LT - INSIDE EOT) OF EXISTING I-40 (-Y-).

-Y_RT-

BEGIN GRADE

-Y_RT- STA. 18+76.00
EL = 2191.37'

PI = 20+05.00
EL = 2189.03'
VC = 200'
K = 192

FOR -Y_RT- PLAN VIEW SEE SHEET 13

NOTE: EXISTING GROUND SHOWN AT GRADE POINT
(11' O/S RT - INSIDE EOT) OF EXISTING I-40 (-Y-).

2/28/2022
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PROJECT REFERENCE NO.

I-25/3AA/AB

SHEET NO.

16

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

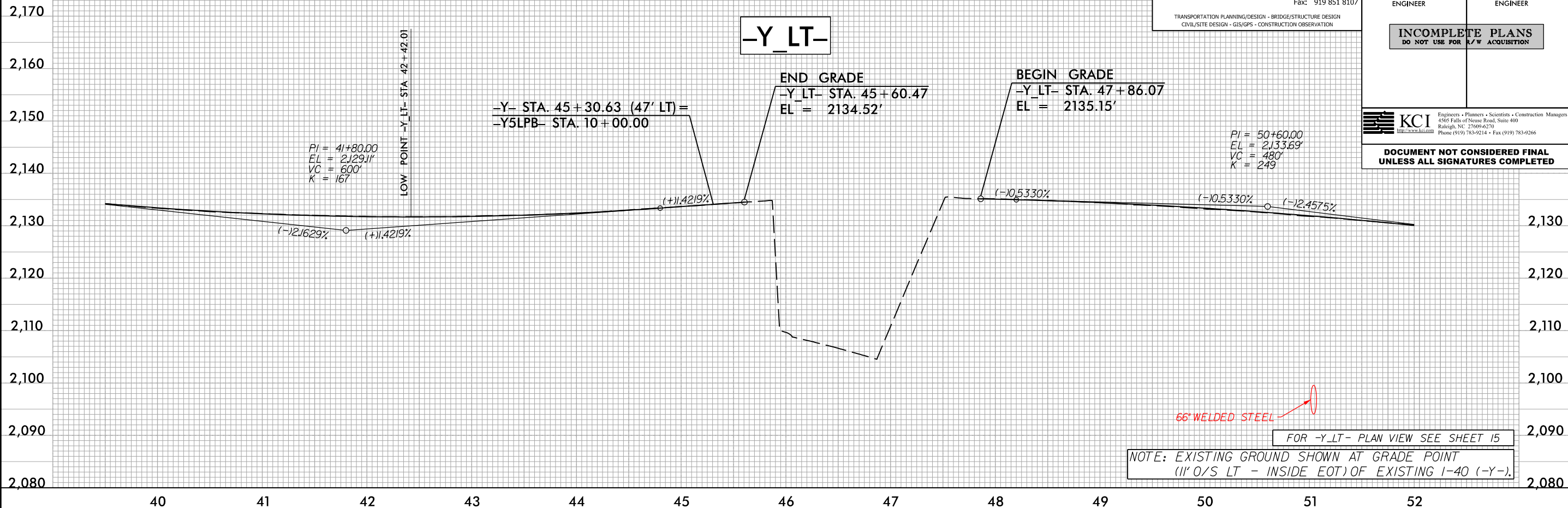
INCOMPLETE PLANS

DO NOT USE FOR R/W ACQUISITION

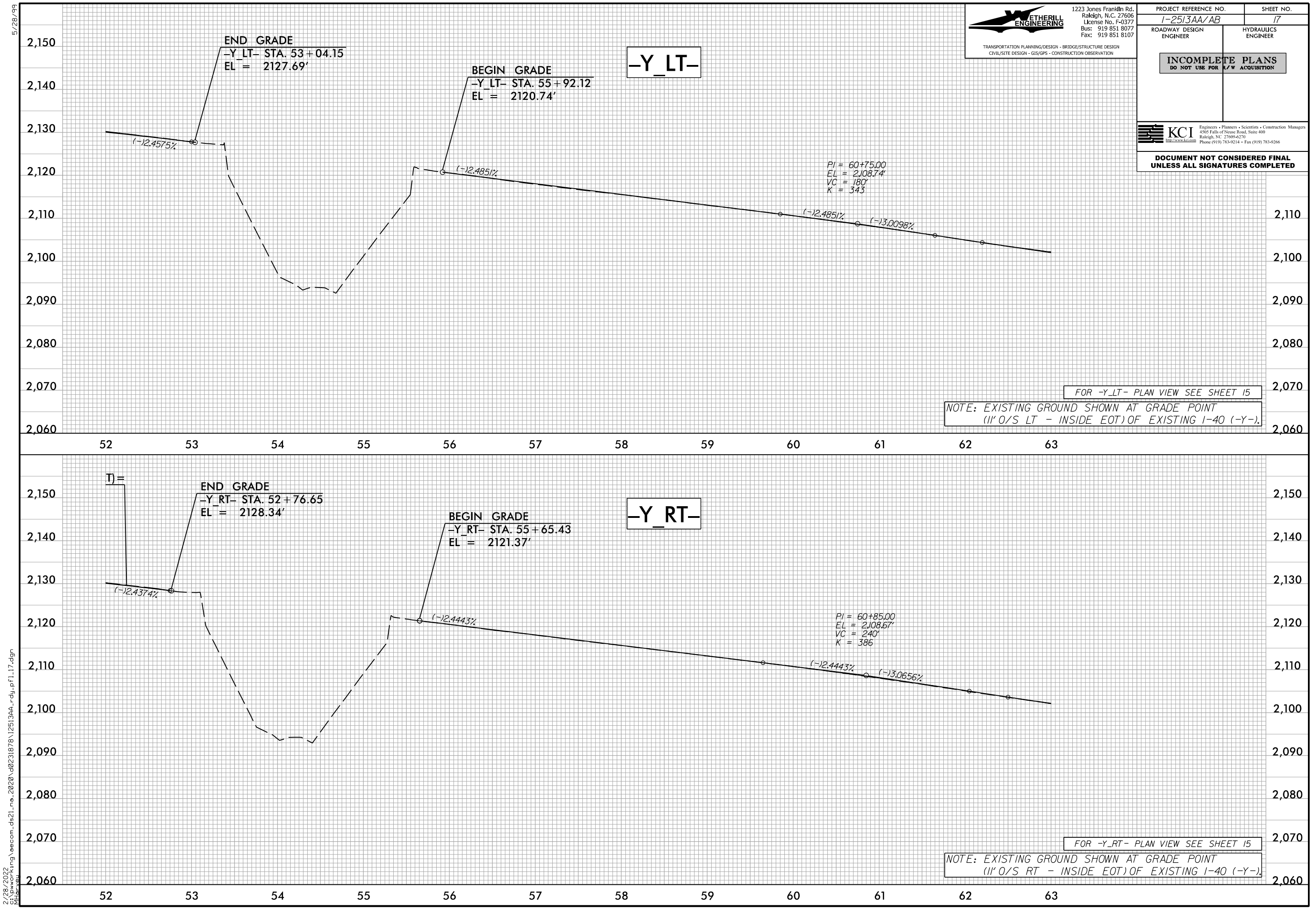


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Shawyer



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PROJECT REFERENCE NO.

I-25/3AA/AB

SHEET NO.

17

ROADWAY DESIGN
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HYDRAULICS
ENGINEER

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SHEET NO.

19

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

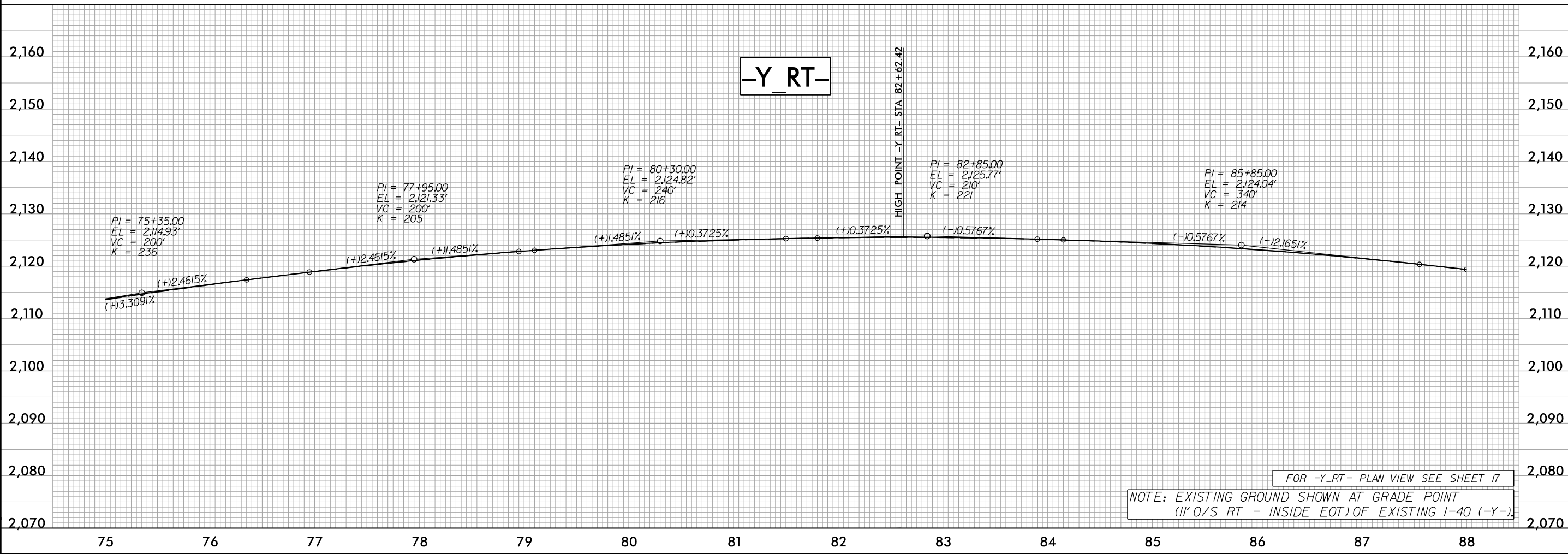
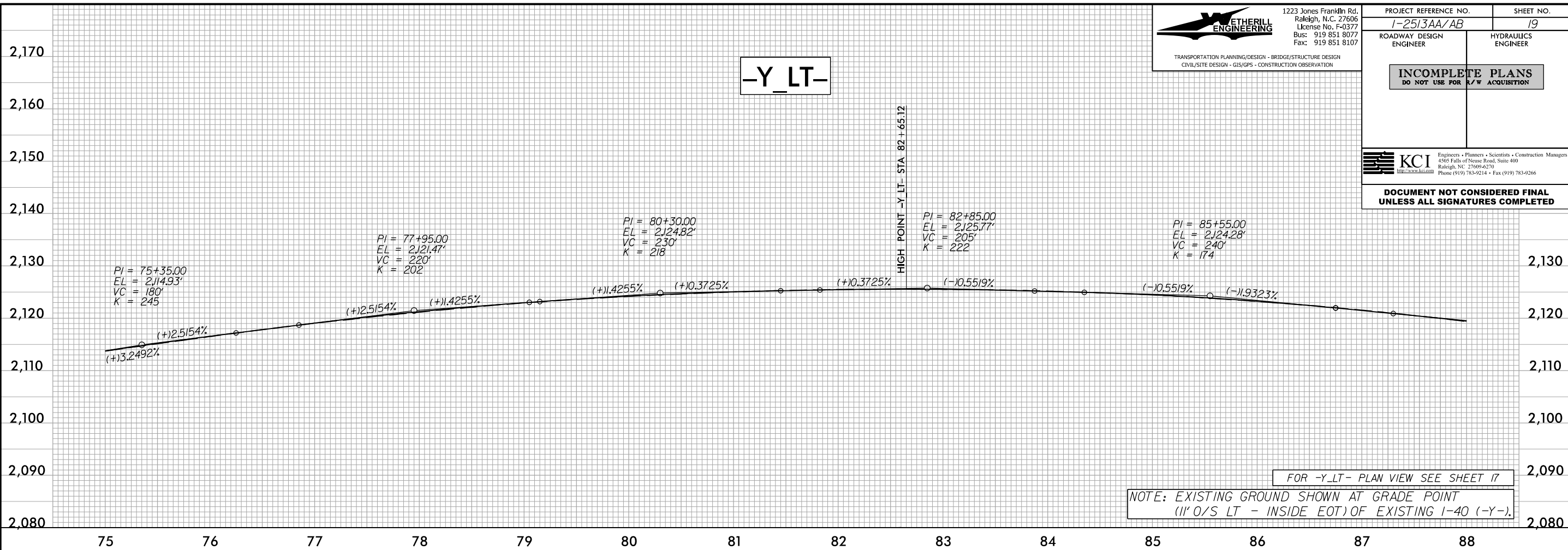
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SHEET NO.

20

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2,150
2,140
2,130
2,120
2,110
2,100
2,090
2,080
2,070
2,060

88 89 90 91 92 93

-Y_LT-

PI = 88+80.00
EL = 2,118.00'
VC = 300'
K = 252

END GRADE

-Y_LT- STA. 92+44.00
EL = 2106.63'

(-1.9323% (-13.1236%

FOR -Y_LT- PLAN VIEW SEE SHEET 18

NOTE: EXISTING GROUND SHOWN AT GRADE POINT
(11' O/S LT - INSIDE EOT) OF EXISTING I-40 (-Y-).

2,110
2,100
2,090
2,080
2,070
2,060

2,150
2,140
2,130
2,120
2,110
2,100
2,090
2,080
2,070
2,060

88 89 90 91 92 93

-Y_RT-

PI = 89+00.00
EL = 2,117.22'
VC = 200'
K = 219

END GRADE

-Y_RT- STA. 92+44.00
EL = 2106.63'

(-12.1651% (-13.0785%

FOR -Y_RT- PLAN VIEW SEE SHEET 18

NOTE: EXISTING GROUND SHOWN AT GRADE POINT
(11' O/S RT - INSIDE EOT) OF EXISTING I-40 (-Y-).

2,150
2,140
2,130
2,120
2,110
2,100
2,090
2,080
2,070
2,060

2/28/2022
2:10:10 PM
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10	11	12	13	14	15	16	17	18	19	20	21	22	23
----	----	----	----	----	----	----	----	----	----	----	----	----	----

$PI = 26+80.00$
 $EL = 2,104.76'$
 $VC = 135'$
 $K = 16$
 $DS = 15 \text{ MPH}$

(-4.7200%)
 $(+3.4989\%)$

LOW POINT -Y5RPA- STA 26+90.03

FOR -Y5RPA- PLAN VIEW SEE SHEET 15

10	11	12	13	14	15	16
----	----	----	----	----	----	----

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PROJECT REFERENCE NO.

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SHEET NO.

56

ROADWAY DESIGN
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-Y5LPB-

BEGIN GRADE

-Y5LPB- STA. 10+00.00 =

-Y- STA. 45+30.63 (47' LT)

EL = 2133.86'

END GRADE

-Y5LPB- STA. 12+84.28

EL = 2128.74'

PI = 11+95.00
EL = 2131.07'
VC = 90'
K = 76

(-)-1.4308% (-)-2.6098%

FOR -Y5LPB- PLAN VIEW SEE SHEET 15

-Y5RPC-

BEGIN GRADE

-Y5RPC- STA. 10+00.00 =

-Y- STA. 30+13.00 (47' RT)

EL = 2158.48'

END GRADE

-Y5RPC- STA. 15+65.00

EL = 2139.83'

PI = 11+60.00
EL = 2154.14'
VC = 150'
K = 310

(-)-2.7125% (-)-3.969%

PI = 14+80.00
EL = 2143.91'
VC = 150'
K = 94

(-)-3.969% (-)-4.8000%

FOR -Y5RPC- PLAN VIEW SEE SHEET 14

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PROJECT REFERENCE NO.

1-2513AA/AB

SHEET NO.

60

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

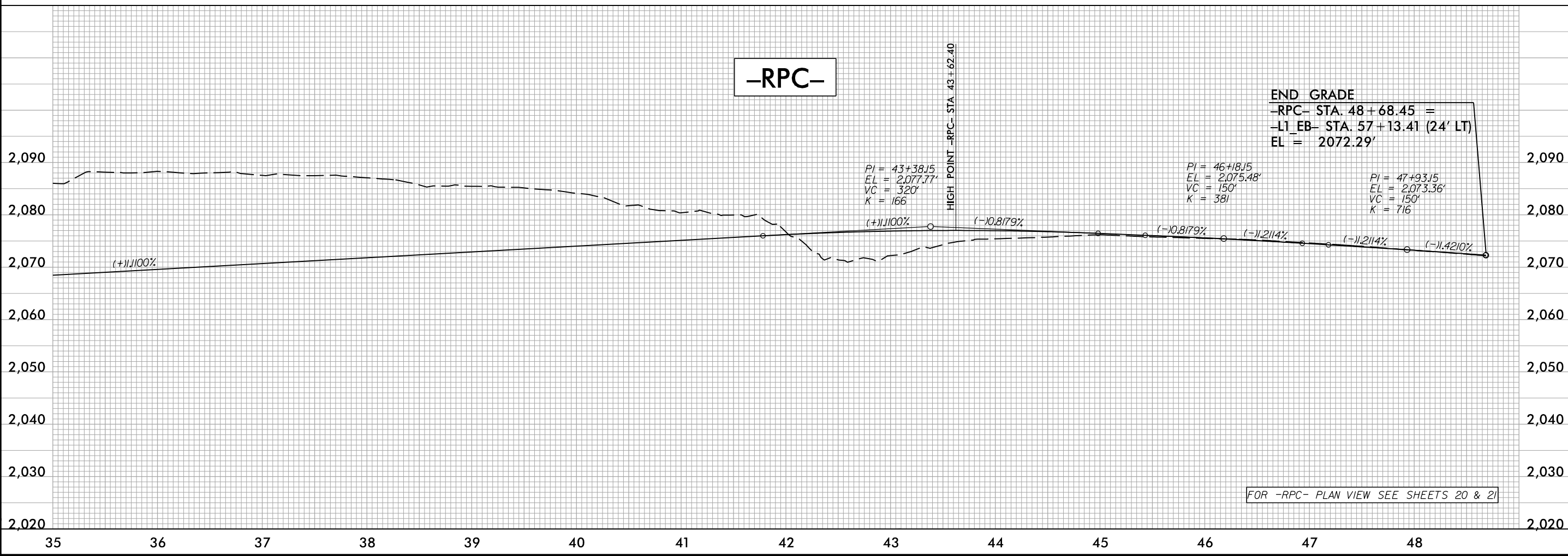
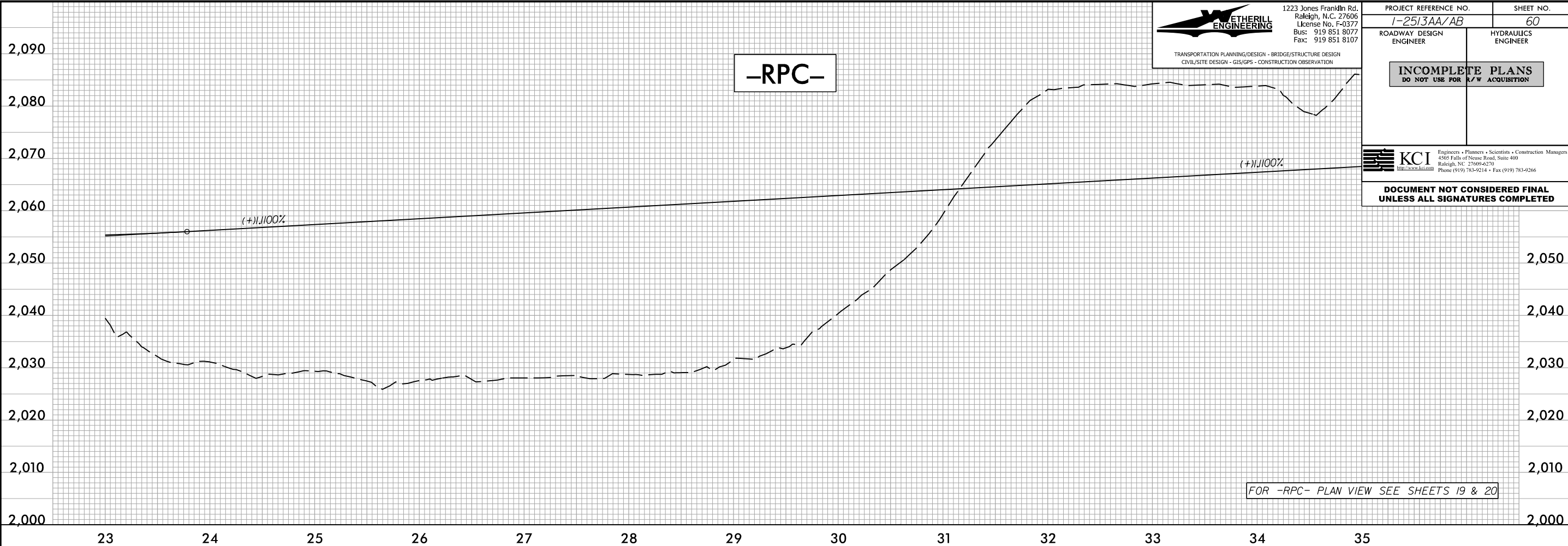
INCOMPLETE PLANS

DO NOT USE FOR R/W ACQUISITION



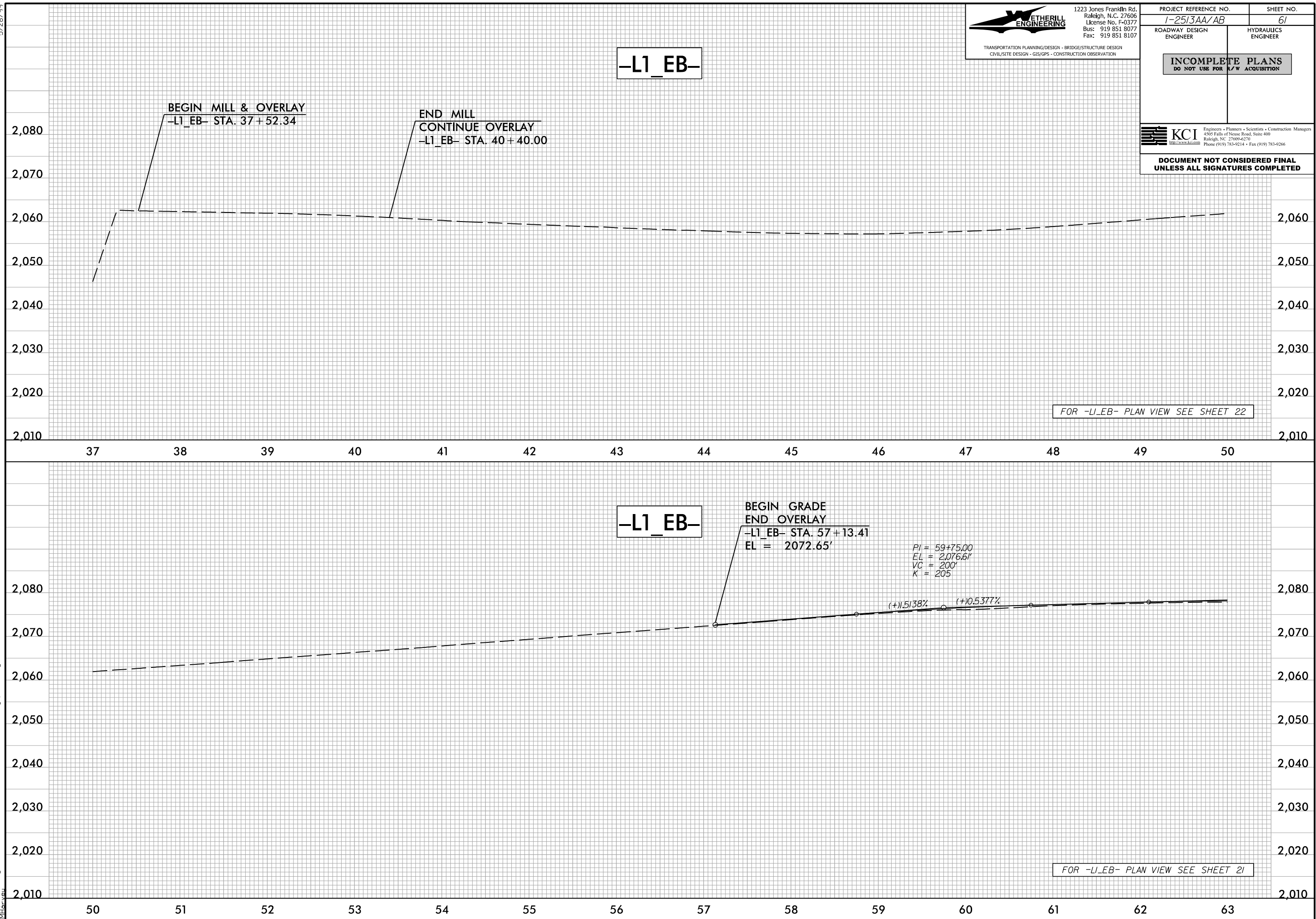
Engineers • Planners • Scientists • Construction Managers
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609-6270
Phone (919) 783-9214 • Fax (919) 783-9266

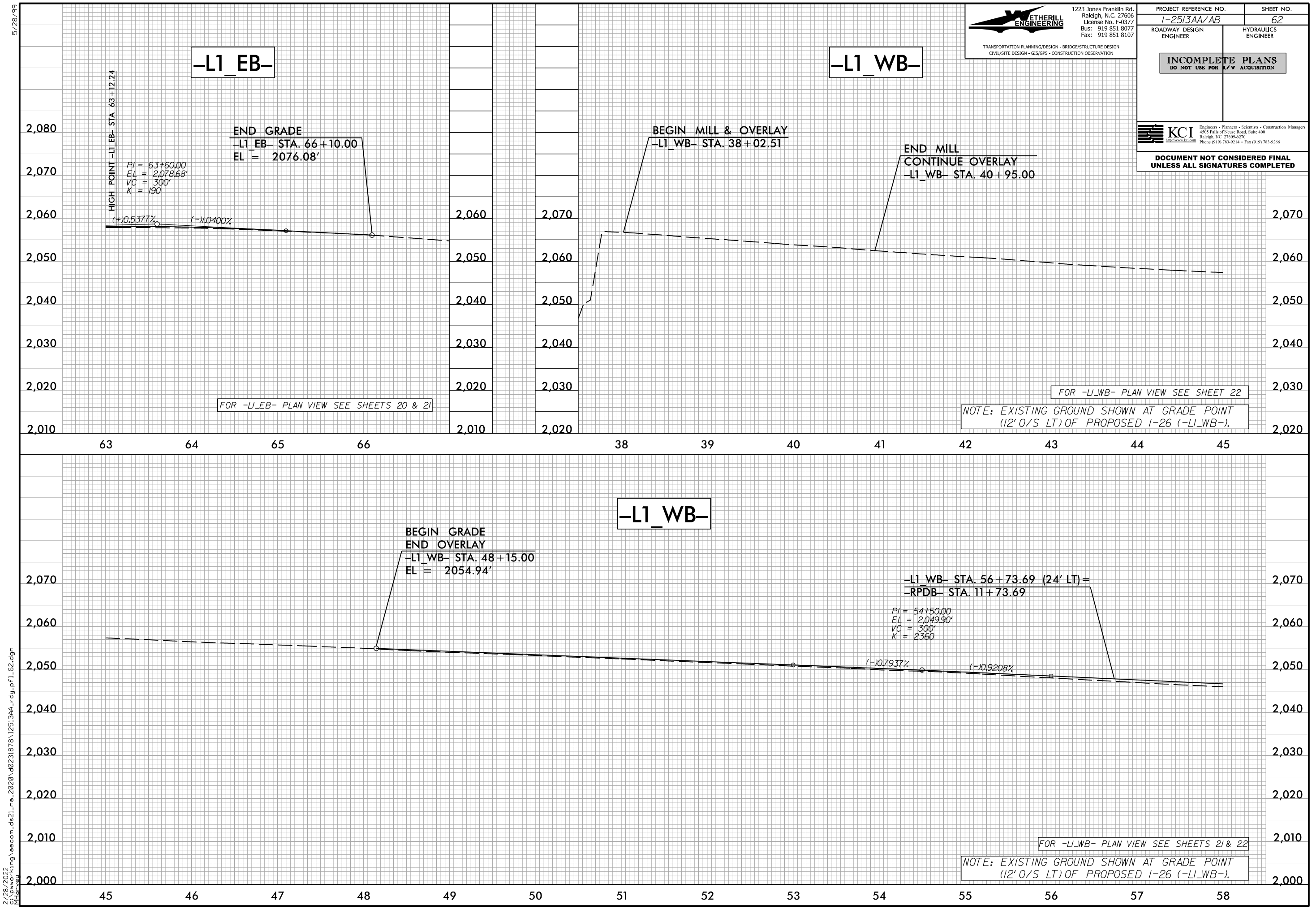
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UNLESS ALL SIGNATURES COMPLETED



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5/28/99

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MHarvey







1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. I-25/3AA/AB		SHEET NO. 62
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
 Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

2/28/2022
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Sheet 1

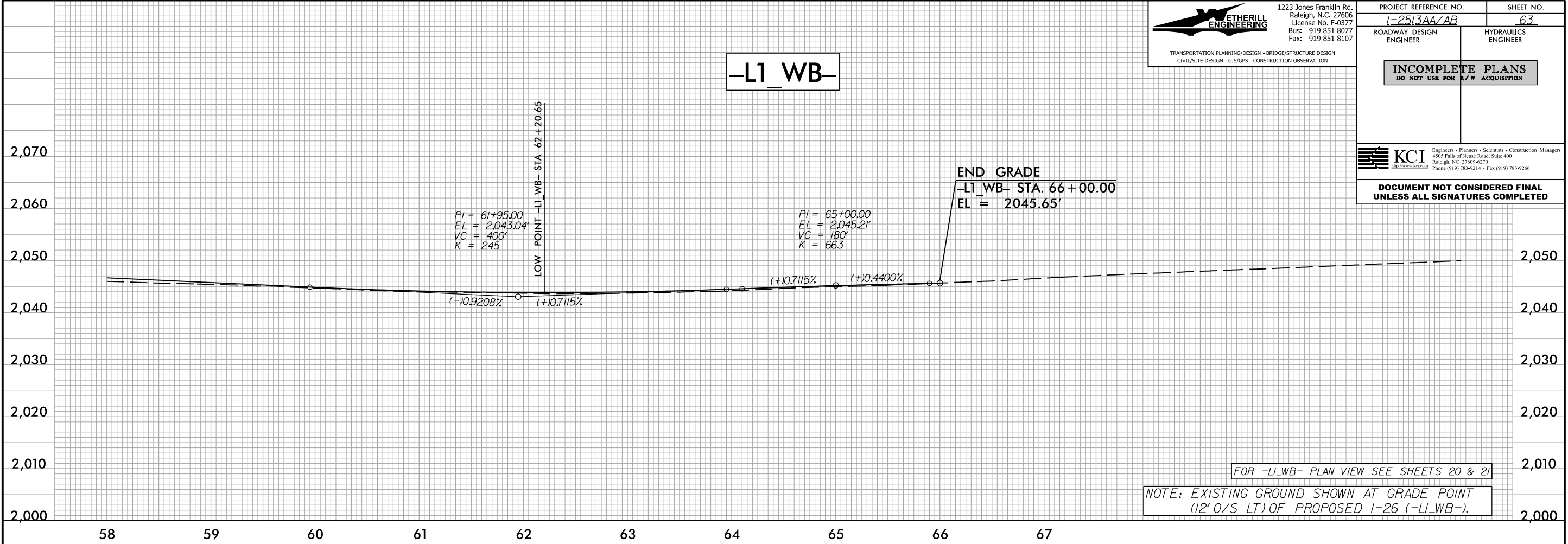
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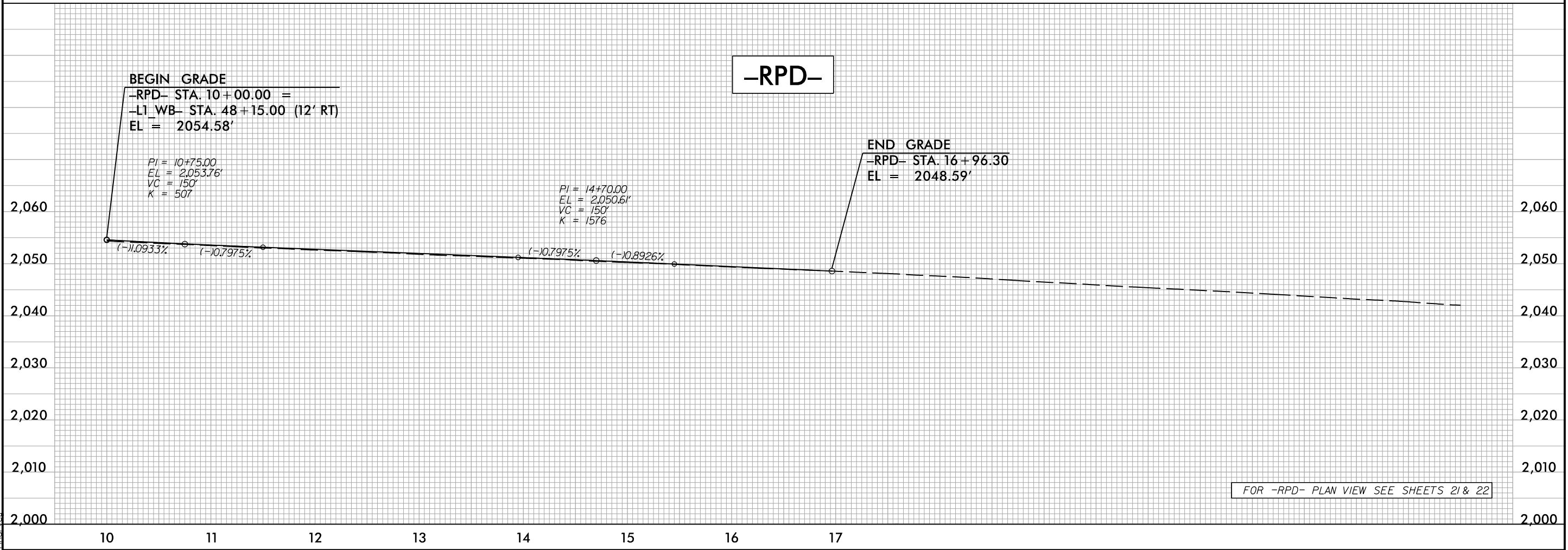
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <u>L-2513AA/AB</u>		SHEET NO. <u>63</u>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
 KCI http://www.kci.com		Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC. 27609-6270 Phone (919) 783-9214 • Fax (919) 783-9266
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



2/28/2022
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09.08/299

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

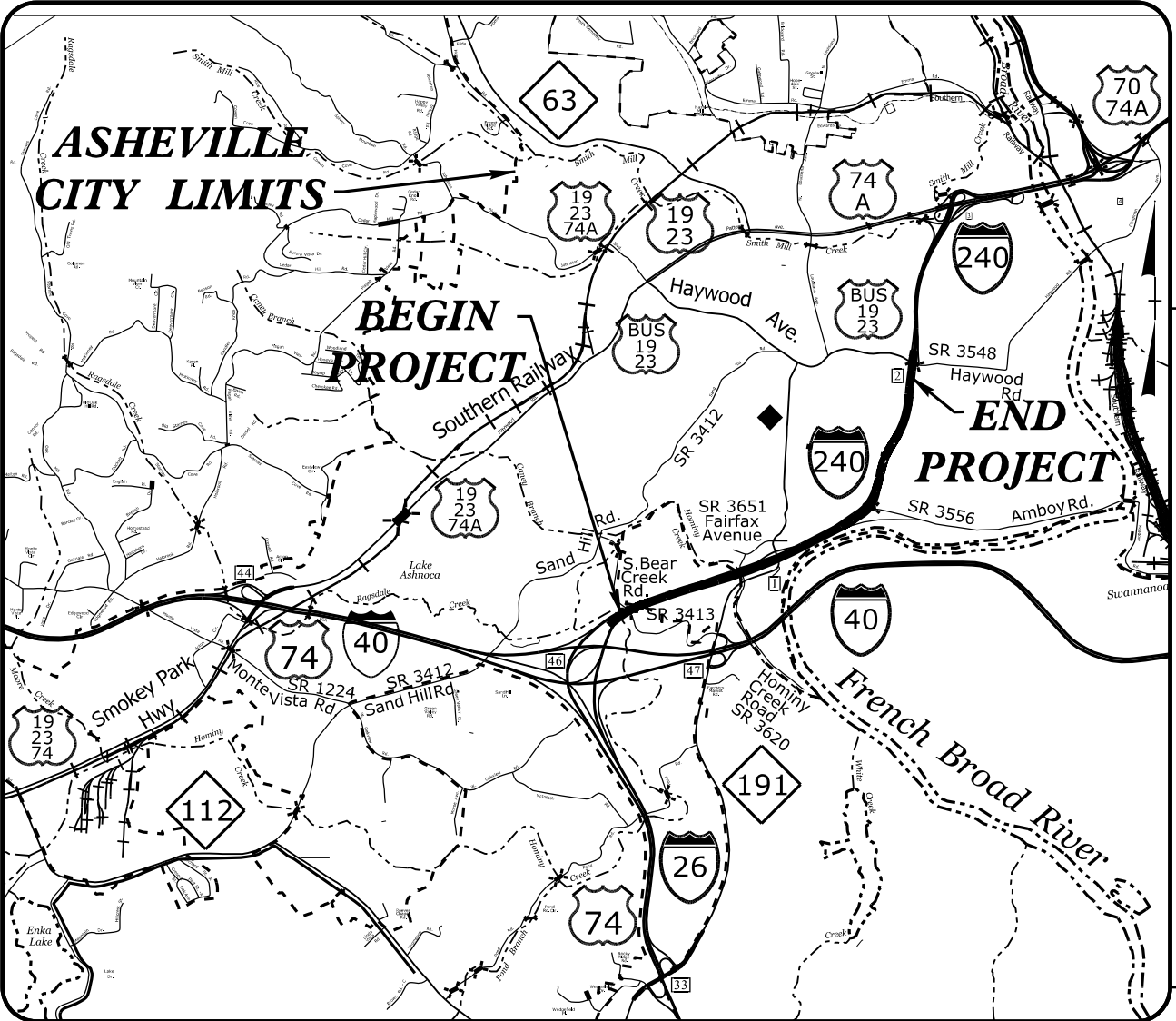
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: I-26/I-40/I-240 INTERCHANGE TO SR 3548 (HAYWOOD RD)

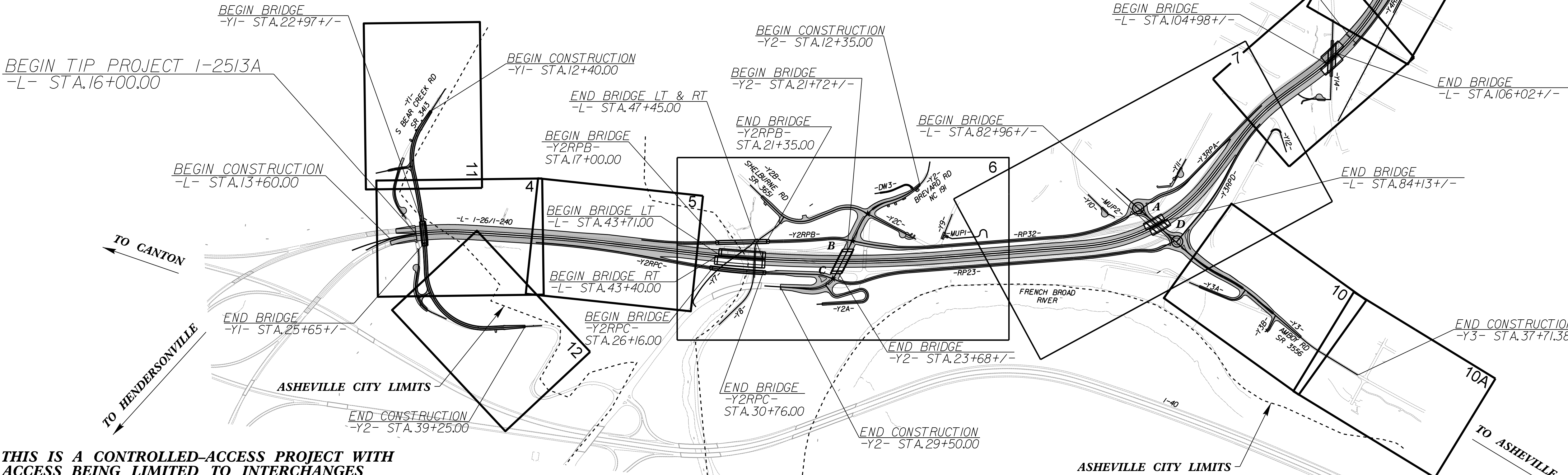
TYPE OF WORK: GRADING, DRAINAGE, PAVING,
STRUCTURES, CULVERTS, RETAINING WALLS,
SOUND WALLS, SIGNALS, AND SIGNING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AC	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34165.1.6		P.E., R/W, UTIL	



65% ROADWAY PLANS
MARCH 28, 2022

VICINITY MAP



THIS IS A CONTROLLED-ACCESS PROJECT WITH
ACCESS BEING LIMITED TO INTERCHANGES

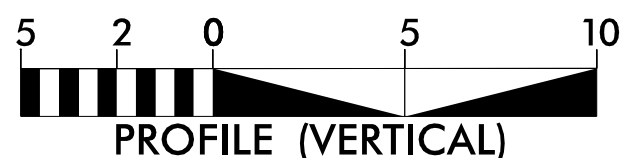
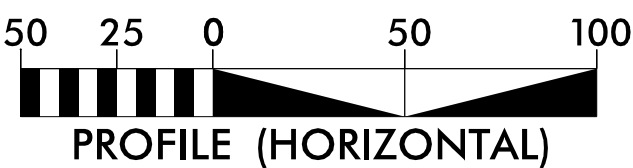
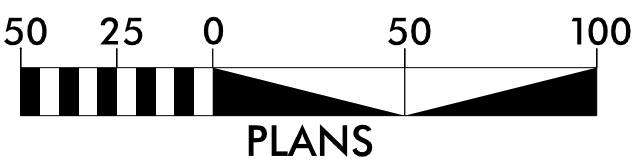
THIS PROJECT IS LOCATED WITHIN THE CITY LIMITS OF
THE CITY OF ASHEVILLE

CLEARING ON THIS PROJECT WILL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD

A DESIGN EXCEPTION IS REQUIRED FOR
HORIZONTAL SSD ON -L-

A DESIGN EXCEPTION IS REQUIRED FOR
MINIMUM HORIZONTAL RADIUS ON -Y2-

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = NA
ADT 2040 = 101,400
K = 9 %
D = 55 %
T = 10 % *
V = 60 MPH
* TTST = 5% DUAL 5%
FUNC CLASS = INTERSTATE
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-2513AC = 1.623 MI
LENGTH STRUCTURE TIP PROJECT I-2513AC = 0.119 MI
TOTAL LENGTH TIP PROJECT I-2513AC = 1.742 MI

AECOM

NC FIRM LICENSE No: F-0342
5438 Wade Park Blvd., Suite 200
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 17, 2022

LETTING DATE:
FEBRUARY 20, 2024

NEIL J. DEAN, P.E.
PROJECT ENGINEER

TIMOTHY A. KLOTZ, P.E.
PROJECT DESIGN ENGINEER

KEVIN E. MOORE, P.E.
NCDOT CONTACT

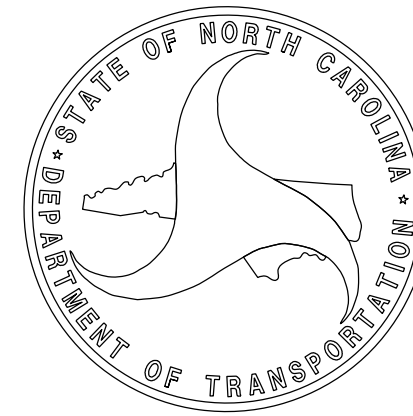
HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TIP PROJECT: I-2513AC

CONTRACT:

2/24/2022
I-2513AC_Fdy_tsh.dgn
Tim.Klotz

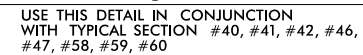
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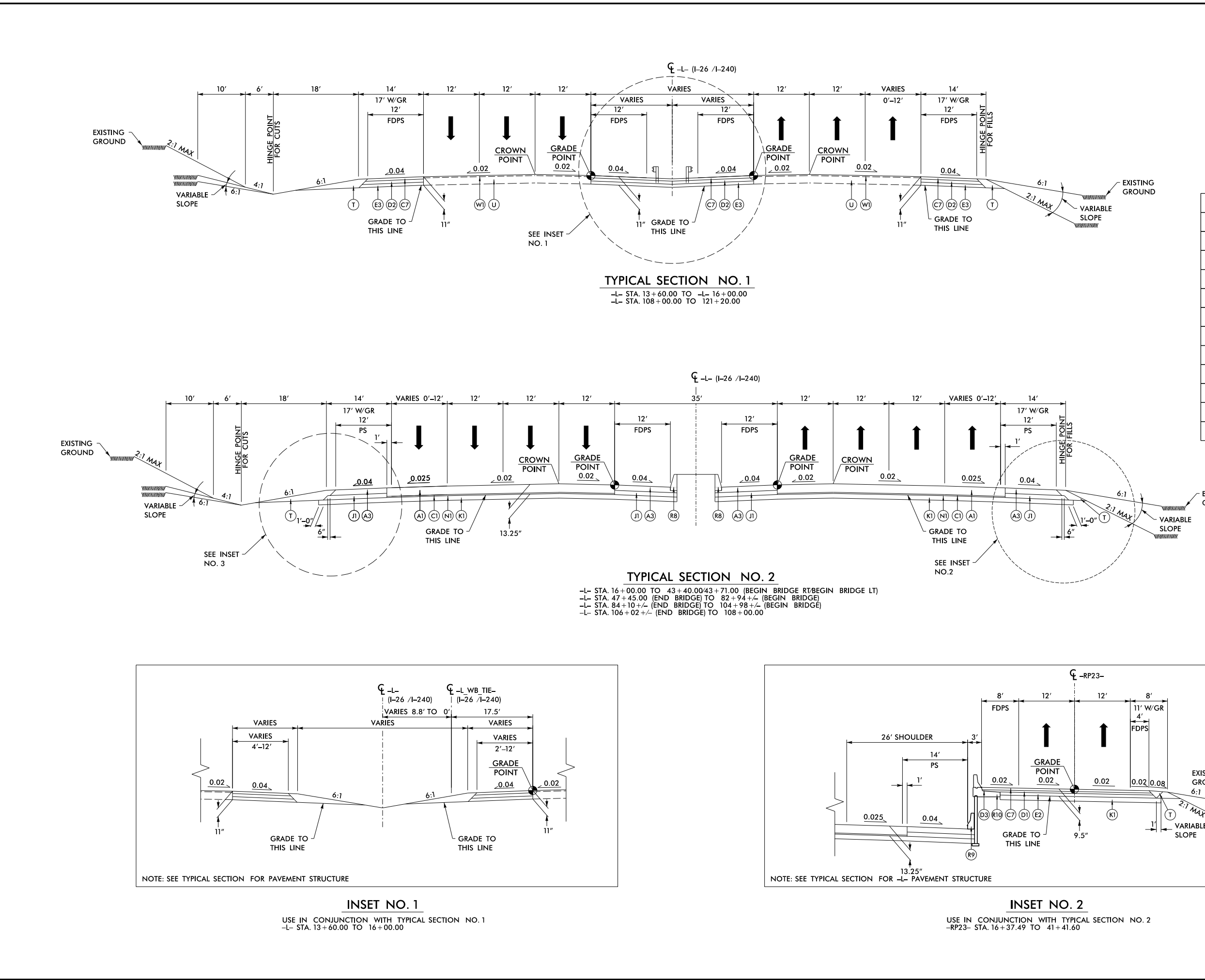
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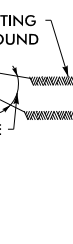
matthew.kemp

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN		E6	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.	V1	MILLED RUMBLE STRIPS.
A1	12" PORTLAND CEMENT CONCRETE PAVEMENT W/ DOWELS. AND NEXT GENERATION DIAMOND GRINDING	J1	PROP. 5.25" AGGREGATE BASE COURSE.	V2	1.5" MILLING
A2	14" PORTLAND CEMENT CONCRETE PAVEMENT W/ DOWELS.	J2	PROP. 6" AGGREGATE BASE COURSE.	V3	VARIABLE MILLING
A3	PROP. APPROX. 8" ROLLER COMPACTED CONCRETE.	J3	PROP. 8" AGGREGATE BASE COURSE.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 1).
A4	PROP. APPROX. 7" RADIALLY JOINTED CONCRETE PAVEMENT WITH WELDED WIRE MESH.	J4	PROP. 10.5" AGGREGATE BASE COURSE.	W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 2).
A5	6" JOINTED CONCRETE WITH WIRE MESH	J5	VAR. DEPTH AGGREGATE BASE COURSE.	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE	
C1	PROP. APPROX. 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	K1	PROP. 8" CHEMICAL STABILIZATION (LIME-TREATED SOIL). BASE TREATED WITH CEMENT AT A RATE OF 55 LBS. PER SQ. YARD OR SOIL TREATED WITH LIME AT A RATE OF 20 LBS. PER SQ. YARD.		
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	K2	PROP. # CLASS IV SUBGRADE STABILIZATION		
C3	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	N1	NONWOVEN GEOTEXTILE INTERLAYER		
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	N2	GEOTEXTILE FOR SOIL STABILIZATION		
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	R1	1'-6" CONCRETE CURB AND GUTTER.		
C6	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	R2	2'-6" CONCRETE CURB AND GUTTER.		
C7	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R3	8"x18" CONCRETE CURB		
C8	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R4	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)		
C9	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	R5	EXPRESSWAY GUTTER		
C10	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R6	SHOULDER BERM GUTTER		
C11	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R7	DOUBLE FACE CONCRETE BARRIER		
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R8	SINGLE SLOPE CONCRETE BARRIER		
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R9	PRECAST REINFORCED CONCRETE BARRIER		
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R10	CONCRETE BARRIER RAIL WITH MOMENT SLAB		
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK		
E2	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL.		
E3	PROP. APPROX. 7½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 427.5 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U	EXISTING PAVEMENT.		
E4	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U1	EXISTING CONCRETE PAVEMENT TO BE REMOVED.		
E5	PROP. APPROX. 9" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF 2 LAYERS.	U2	EXISTING ASPHALT DRAINAGE LAYER TO BE RETAINED.		

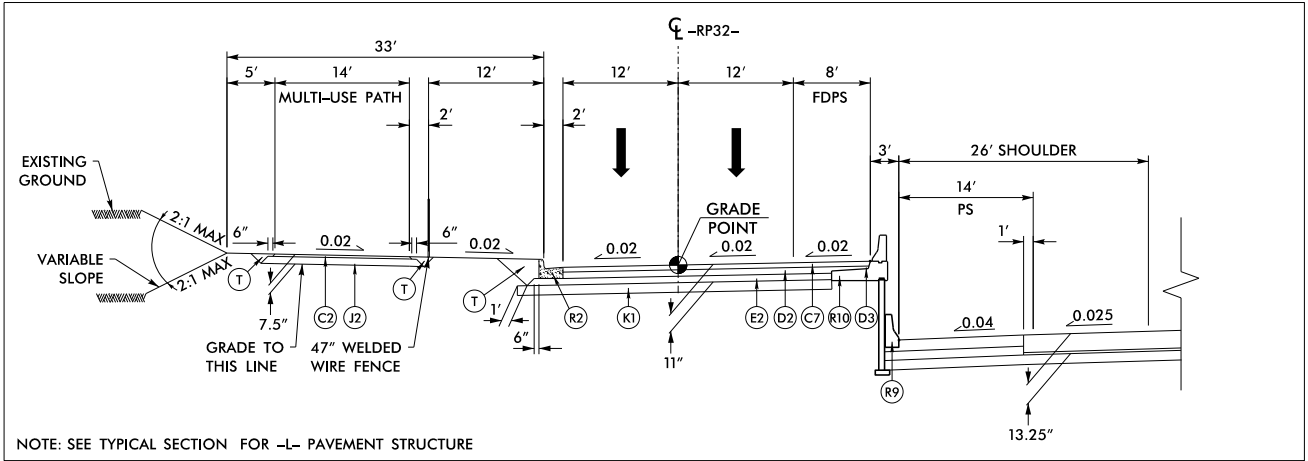
PROJECT REFERENCE NO.		SHEET NO.	
1-25/3A		2A-1	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM NC FIRM LICENSE No F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 27507 (919) 854-6200 • (919) 854-6259 (FAX)			
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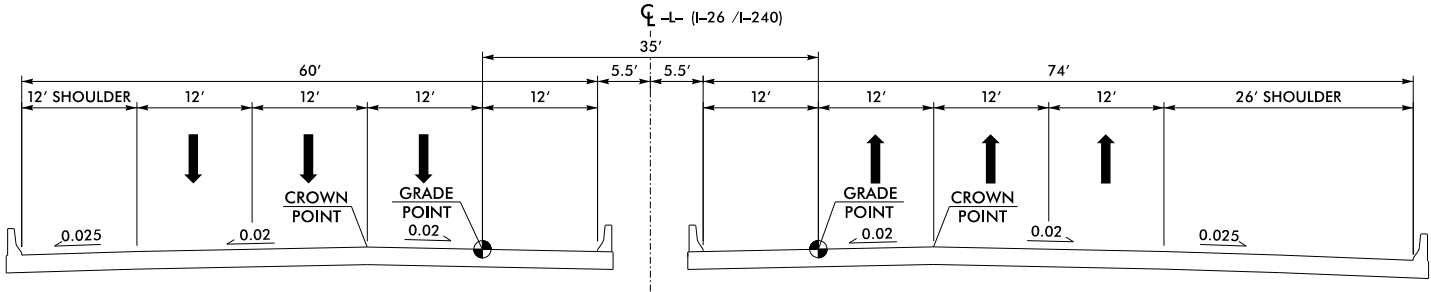


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ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
A1	12" PCC PAVE.	C9	1½" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2½" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1¼" S9.5B	D3	VAR. I19.0C
C2	1½" S9.5B	E1	3" B25.0C
C3	2½" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7½" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1½" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
EXISTING GROUND		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
	W1	WEDGING DET.#1	
	W2	WEDGING DET.#2	

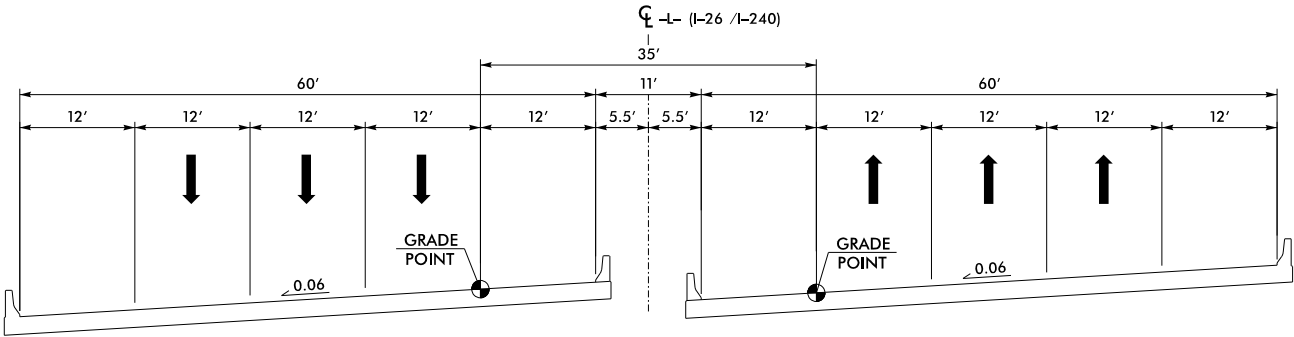
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matthew.kemp



INSET NO. 3
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2
-RP32- STA. 14+22.59 TO 30+81.76



STRUCTURE TYPICAL SECTION
-L- I-26/I-240 OVER HOMINY CREEK, -Y8- HOMINY CREEK ROAD
STA. 43+40.00 RT/43+71.00 LT TO 47+45.00

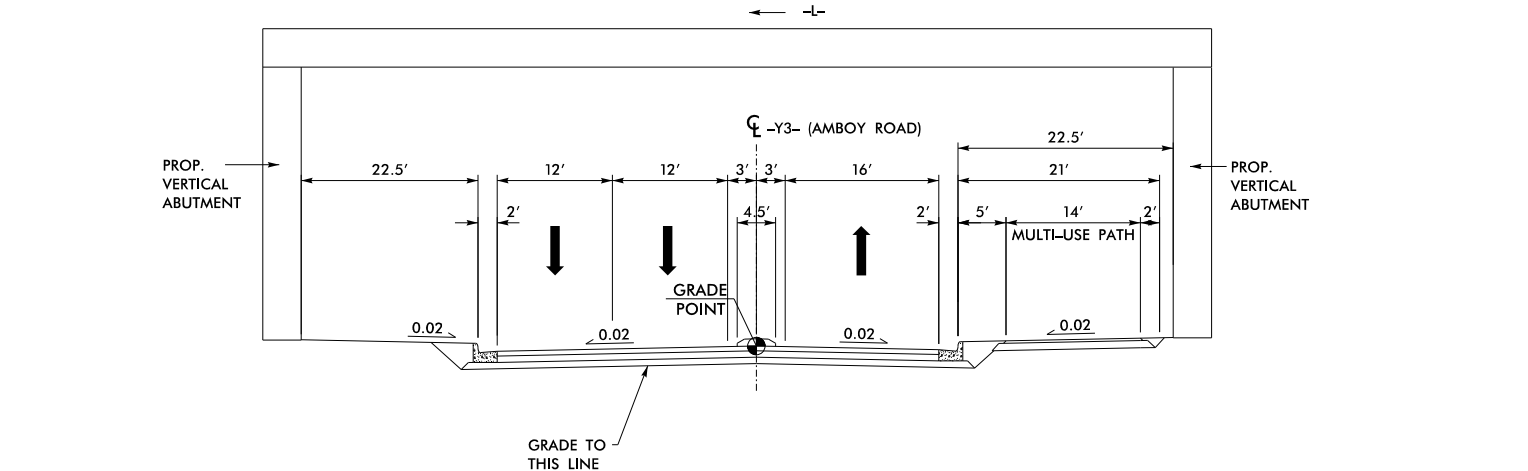


STRUCTURE TYPICAL SECTION
-L- I-26/I-240 OVER -Y3- AMBOY ROAD
STA. 82+96+/- TO 84+13+/-

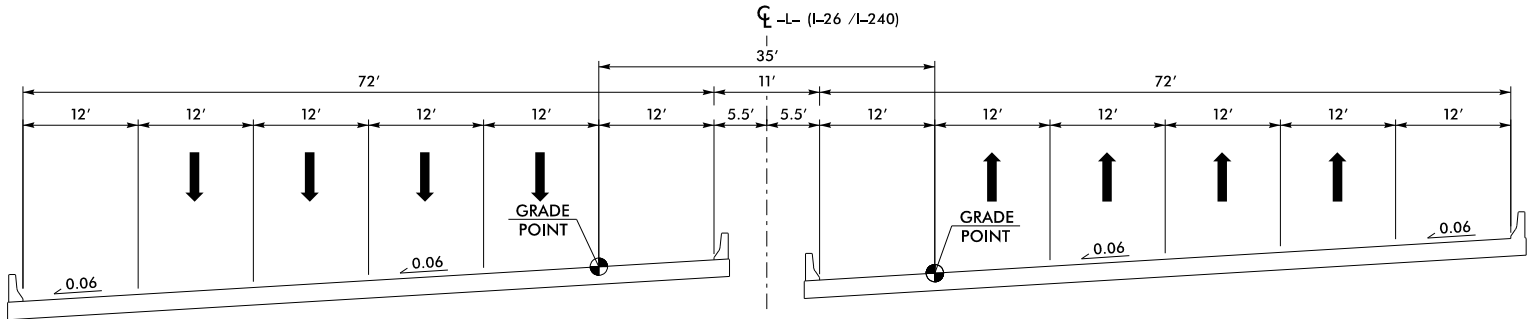
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ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

A1	12" PCC PAVE.	C9	1½" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2½" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1¼" S9.5B	D3	VAR. I19.0C
C2	1½" S9.5B	E1	3" B25.0C
C3	2½" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7½" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1½" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2

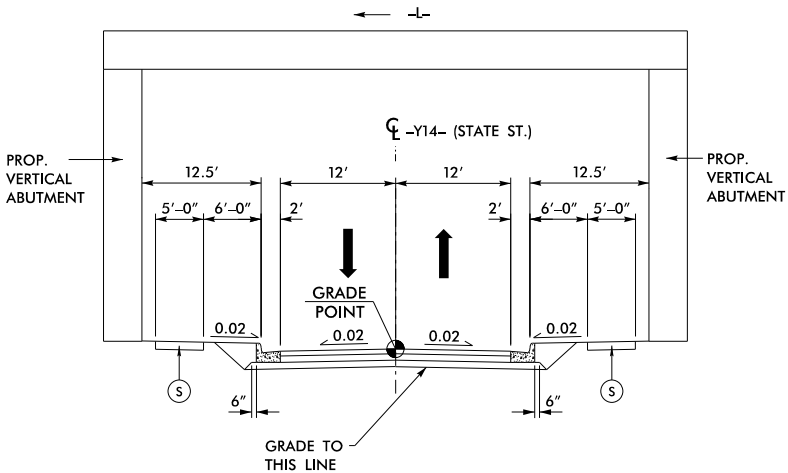
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TYPICAL SECTION UNDER STRUCTURE
-L- I-264-240 OVER -Y3- AMBOY ROAD



STRUCTURE TYPICAL SECTION
-L- I-264-240 OVER -Y14- STATE STREET
STA. 104 + 98 +/- TO 106 + 02 +/-

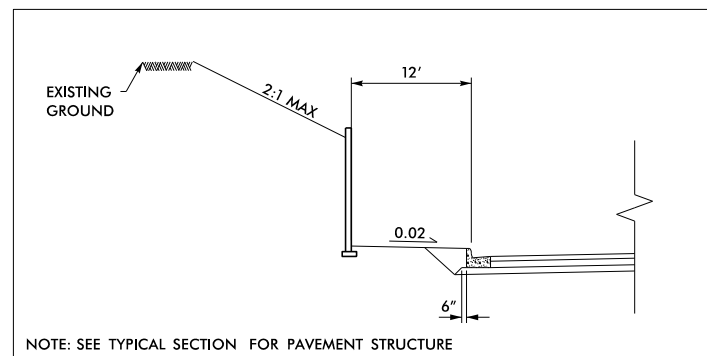
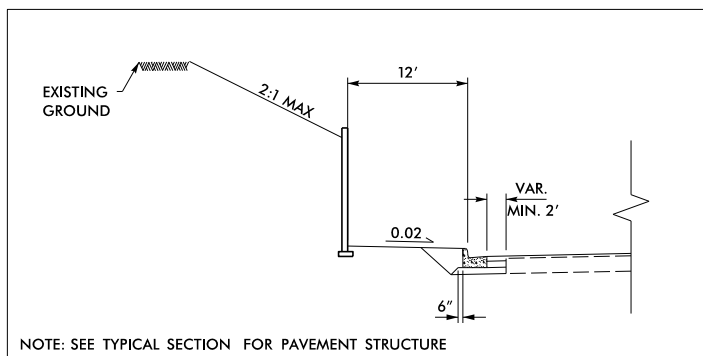
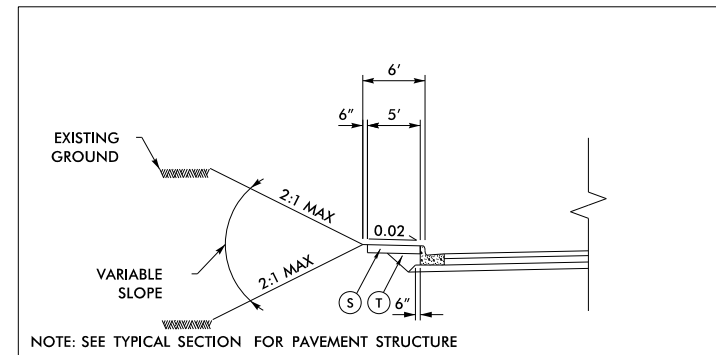
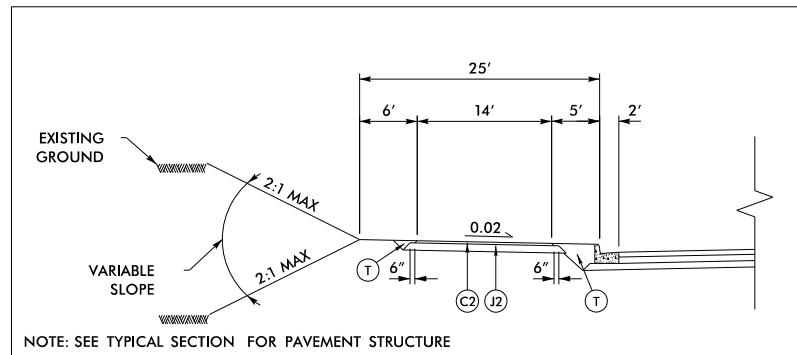
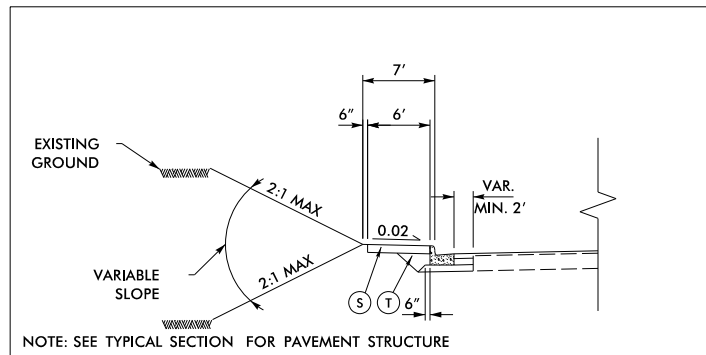
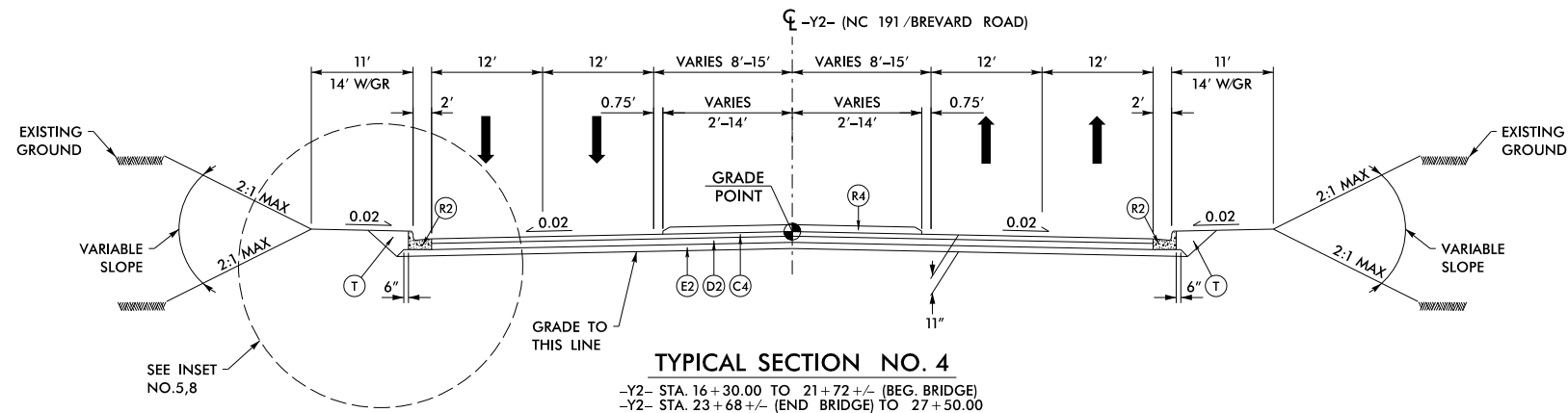
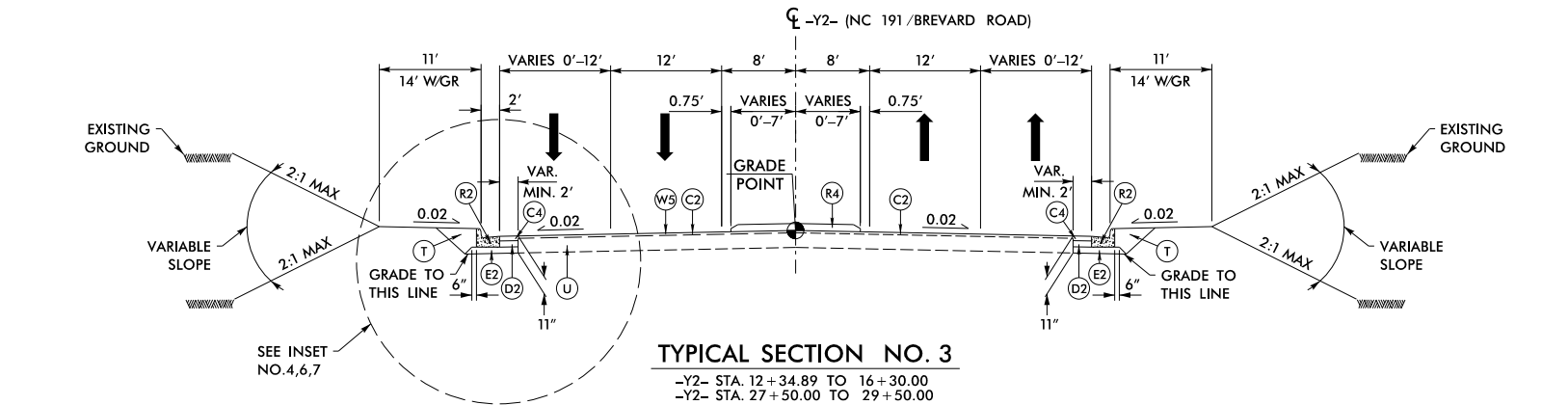


TYPICAL SECTION UNDER STRUCTURE
-L- I-264-240 OVER -Y14- STATE STREET

PROJECT REFERENCE NO. 1-25/3A		SHEET NO. 2A-5	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 27507 (919) 854-6200 • (919) 854-6259 (FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

A1	12" PCC PAVE.	C9	1½" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2½" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1¼" S9.5B	D3	VAR. I19.0C
C2	1½" S9.5B	E1	3" B25.0C
C3	2½" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7½" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1½" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2

6/2/2022
1/15/2022
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matthew.kemp



PROJECT REFERENCE NO.		SHEET NO.
1-2513A		2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
Prepared in the Office of: AECOM NC FIRM LICENSE No F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 27507 (919) 854-6200 • (919) 854-6259 (FAX)		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

A1	12" PCC PAVE.	C9	1 1/2" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2 1/2" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1 1/4" S9.5B	D3	VAR. I19.0C
C2	1 1/2" S9.5B	E1	3" B25.0C
C3	2 1/2" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7 1/2" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1 1/2" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1 1/2" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2

PROJECT REFERENCE NO.
1-2513A

SHEET NO.
2A-8

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

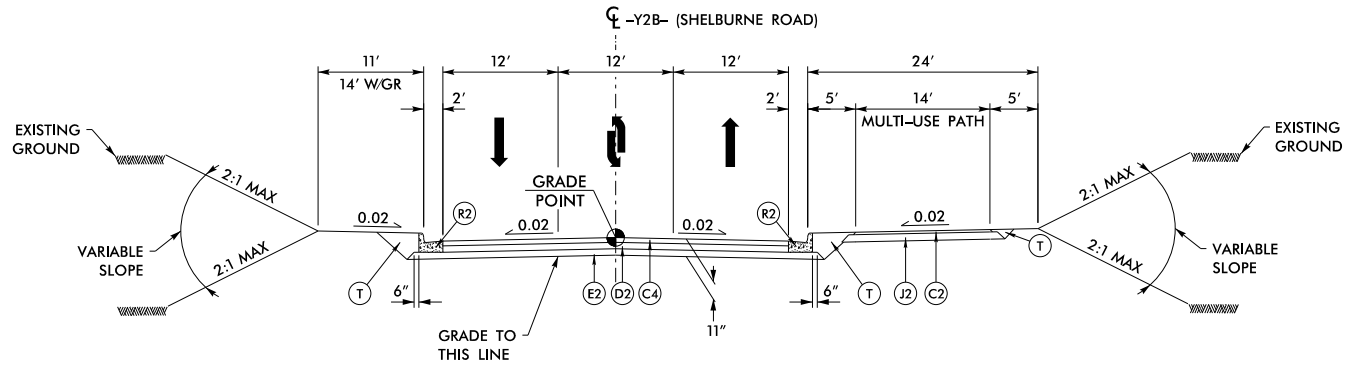
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

Prepared in the
Office of:

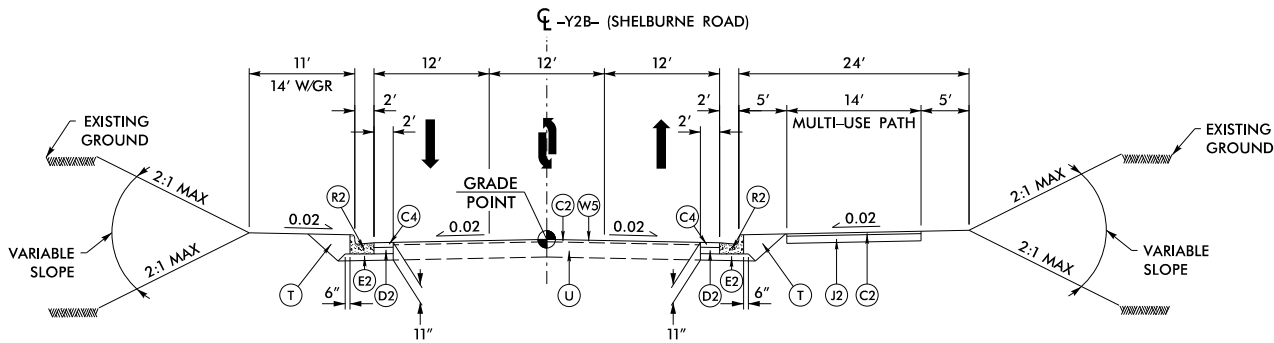
AECOM

NC FIRM LICENSE No F-0342
5438 Wade Park Boulevard, Suite 200
Charlotte, NC 27507
(919) 854-6200 • (919) 854-6259 (FAX)

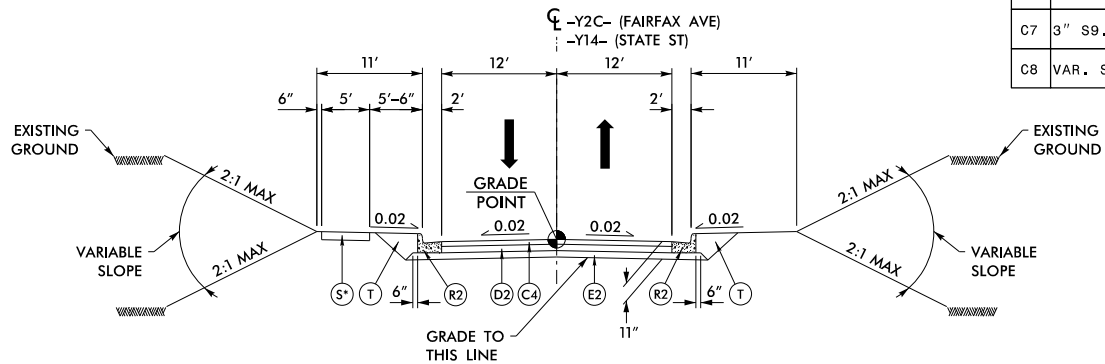
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



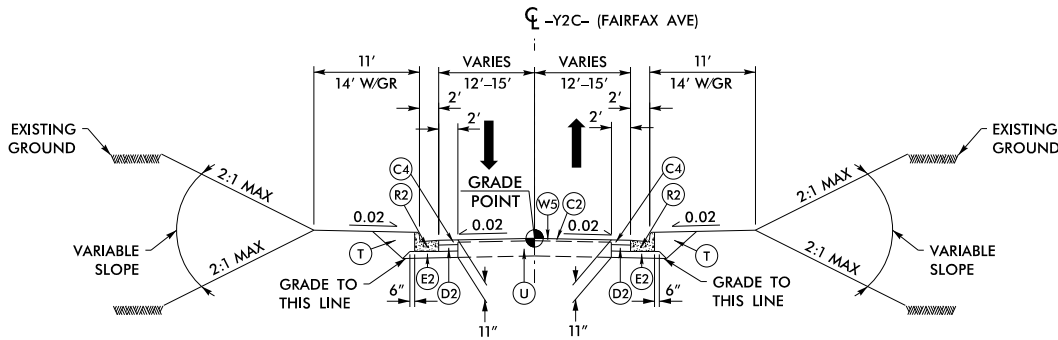
TYPICAL SECTION NO. 7
Y2B- STA. 16+15.00 TO 21+69.66



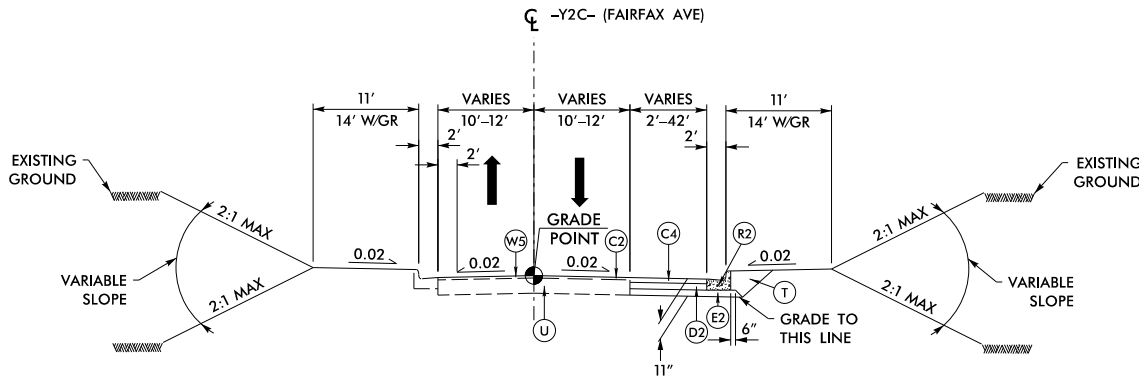
TYPICAL SECTION NO. 8
Y2B- STA. 11+50.00 TO 16+15.00



* SIDEWALK ON Y14- ONLY
TYPICAL SECTION NO. 9
Y2C- STA. 10+38.68 TO 12+30.00
Y14- STA. 12+15.00 TO 15+40.00



TYPICAL SECTION NO. 10
Y2C- STA. 12+30.00 TO 13+00.00



TYPICAL SECTION NO. 11
Y2C- STA. 13+00.00 TO 13+96.15

A1	12" PCC PAVE.	C9	1 1/2" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2 1/2" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1 1/4" S9.5B	D3	VAR. I19.0C
C2	1 1/2" S9.5B	E1	3" B25.0C
C3	2 1/2" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7 1/2" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1 1/2" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1 1/2" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2



TYPICAL SECTION NO. 13

TYPICAL SECTION NO. 14

TYPICAL SECTION NO. 15

INSET NO. 11

J2	6" ABC
J3	8" ABC
J4	10.5" ABC
J5	VAR. ABC
K1	8" CHEM. STAB.
K2	CL IV SUB. STAB.
N1	NONWOVEN GEO.
N2	GEO. SOIL STAB.
R1	1'-6" C&G
R2	2'-6" C&G
R3	8"x18" CURB
R4	5" MONO ISLAND
R5	EXPRESS. GUTTER
R6	SH. BERM GUTTER
R7	DOUBLE FACE BAR
R8	SINGLE SL. BAR.
R9	PRECAST BARRIER
R10	BARRIER RAIL
S	4" CONC. SW.
T	EARTH MATERIAL
U1	EXIST. PVMT.
U1	EXIST. C. PVMT.
U2	EXIST. A. DRN.
V1	RUMBLE STRIPS
V2	1½" MILLING
V3	VAR. MILLING
W1	WEDGING DET.#1
W2	WEDGING DET.#2

PROJECT REFERENCE NO.
1-25/3A

SHEET NO.
2A-10

ROADWAY DESIGN
ENGINEER

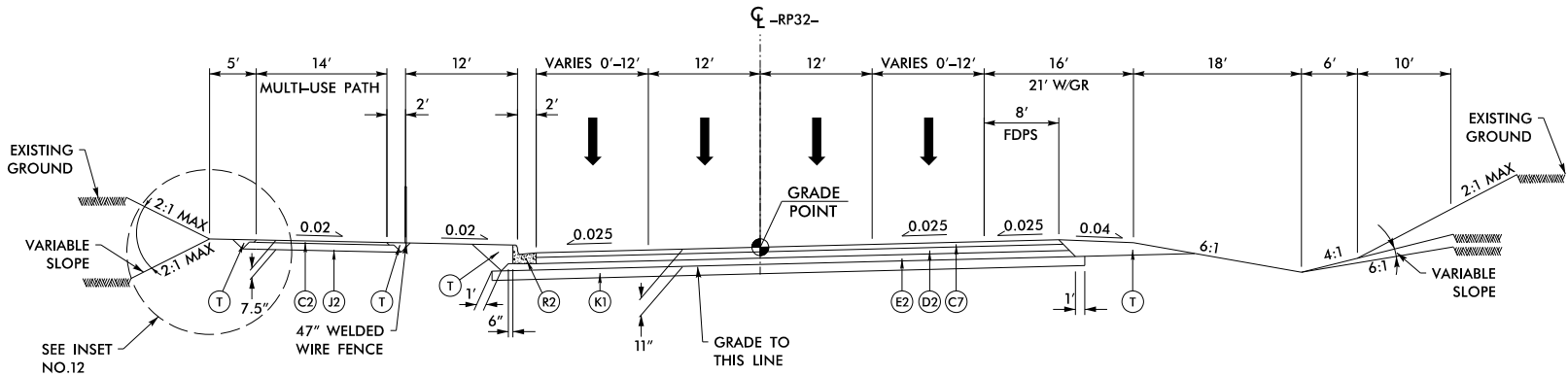
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

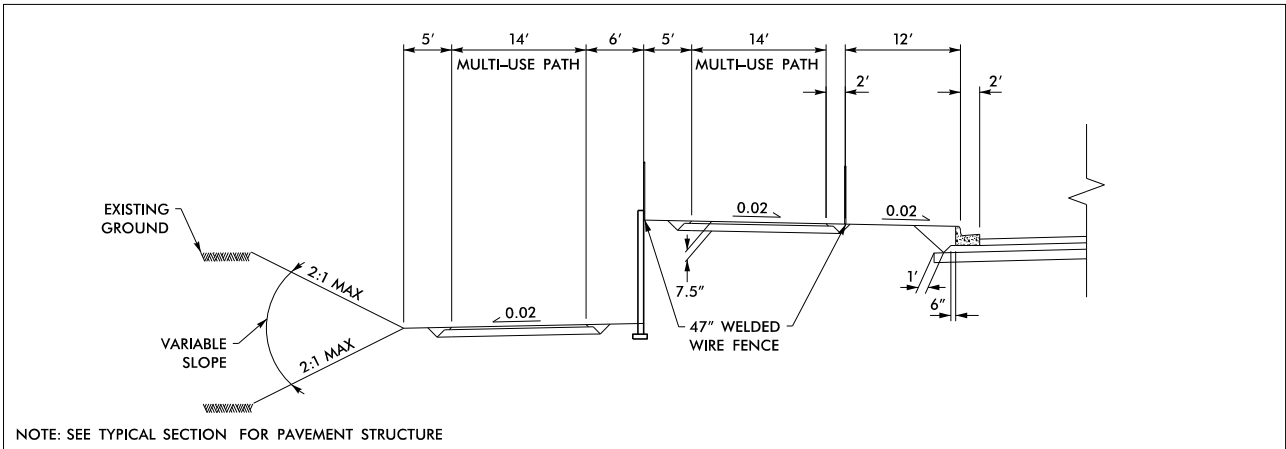
Prepared in the
Office of:

AECOM
NC FIRM LICENSE No. F-0342
5438 Wood Park Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6200 • (919) 854-6259 (FAX)

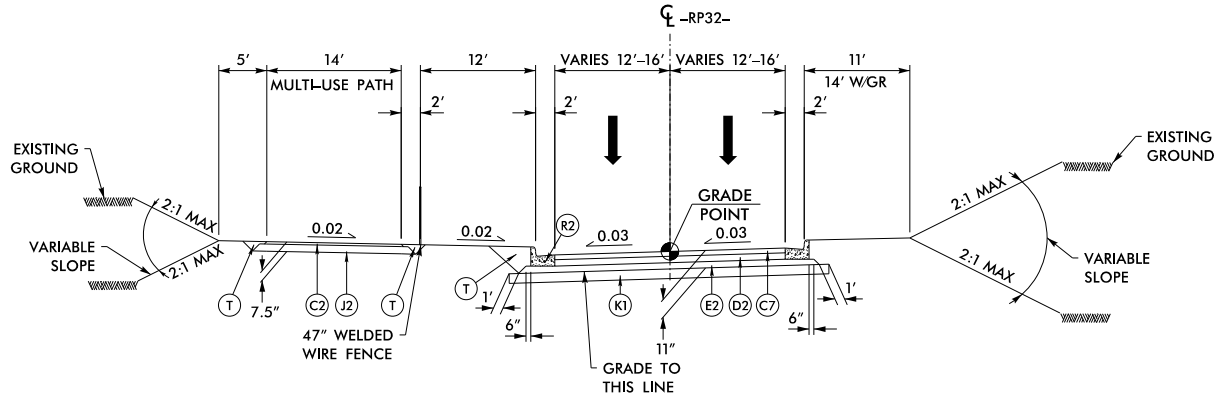
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



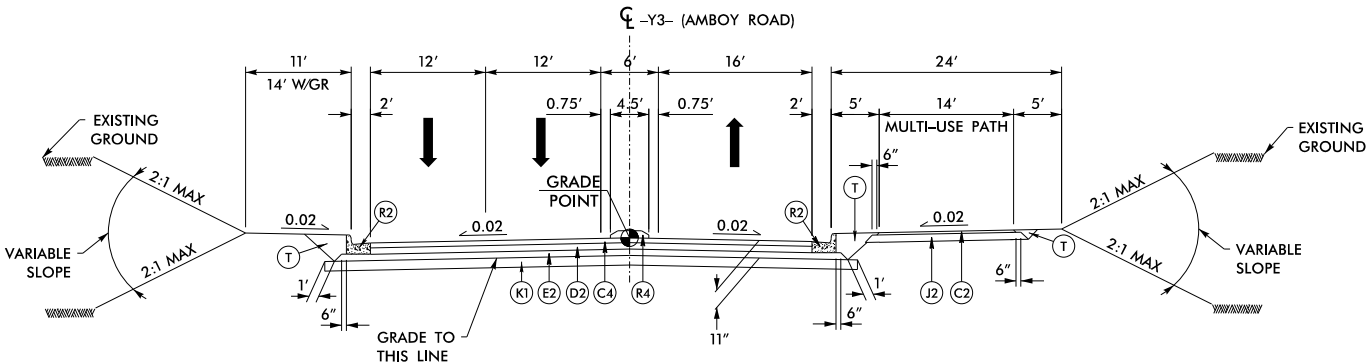
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-RP32- STA. 10+40.38 TO 14+22.59



INSET NO. 12
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 16
-RP32- STA. 18+13.02 TO 21+00.00

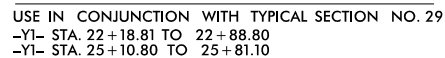
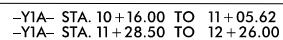
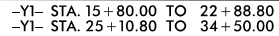
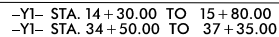
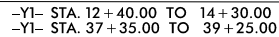


TYPICAL SECTION NO. 17
-RP32- STA. 30+81.76 TO 35+73.50

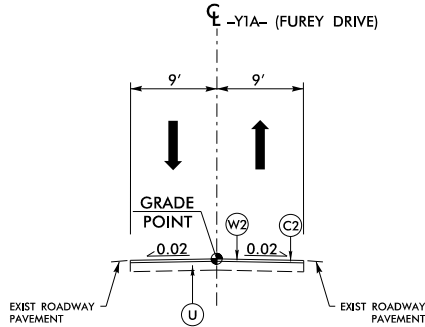


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-Y3- STA. 13+19.41 TO 16+82.92

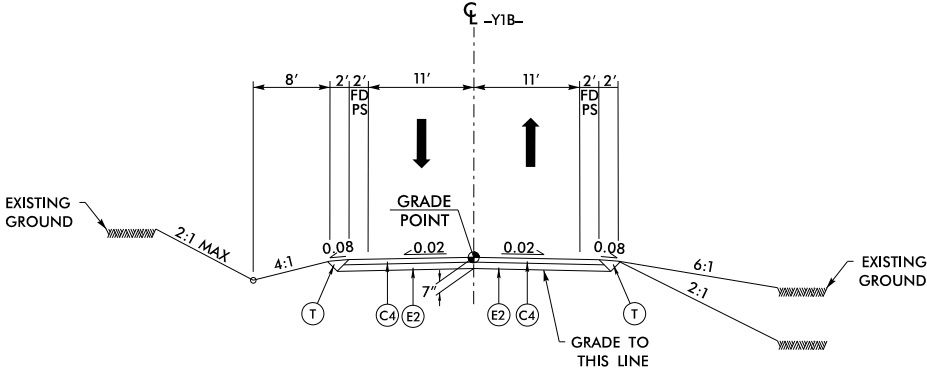
A1	12" PCC PAVE.	C9	1½" S9.5D
A2	14" CONC. PAVE.	C10	3" S9.5D
A3	8" RCP	C11	VAR. S9.5D
A4	7" CONC. PAVE.	D1	2½" I19.0C
A5	6" CONC. PAVE.	D2	4" I19.0C
C1	1¼" S9.5B	D3	VAR. I19.0C
C2	1½" S9.5B	E1	3" B25.0C
C3	2½" S9.5B	E2	4" B25.0C
C4	3" S9.5B	E3	7½" B25.0C
C5	VAR. S9.5B	E4	8" B25.0C
C6	1½" S9.5C	E5	9" B25.0C
C7	3" S9.5C	E6	VAR. B25.0C
C8	VAR. S9.5C	J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U1	EXIST. PVMT.
		U1	EXIST. C. PVMT.
		U2	EXIST. A. DRN.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2



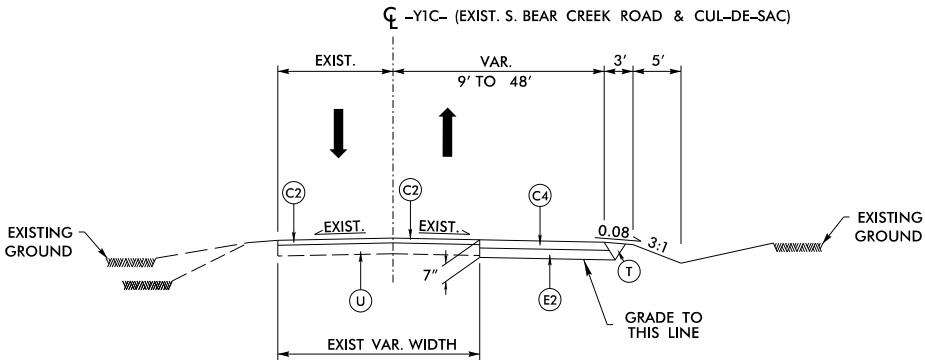
A1	12" PCC PAVE.	C8	VAR. S9.5C
A2	14" CONC. PAVE.	C9	1½" S9.5D
A3	8" RCP	C10	3" S9.5D
A4	7" CONC. PAVE.	C11	VAR. S9.5D
A5	6" CONC. PAVE.	D1	2½" I19.0C
C1	1¼" S9.5B	D2	4" I19.0C
C2	1½" S9.5B	D3	VAR. I19.0C
C3	2½" S9.5B	E1	3" B25.0C
C4	3" S9.5B	E2	4" B25.0C
C5	VAR. S9.5B	E3	7½" B25.0C
C6	1½" S9.5C	E4	8" B25.0C
C7	3" S9.5C	E5	9" B25.0C
		E6	VAR. B25.0C
		J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U	EXIST. PVMT.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2



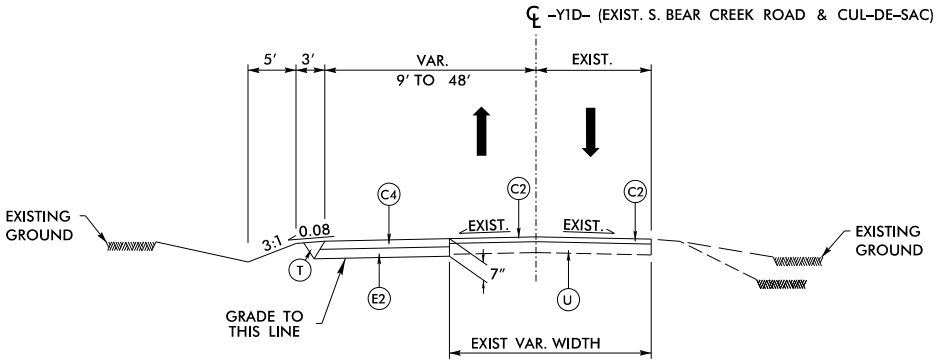
TYPICAL SECTION NO. 31
-Y1A- STA. 11+05.62 TO 11+28.50



TYPICAL SECTION NO. 32
-Y1B- STA. 10+16.00 TO 11+13.96



TYPICAL SECTION NO. 33
-Y1C- STA. 11+43.50 TO 15+91.56



TYPICAL SECTION NO. 34
-Y1D- STA. 10+09.91 TO 14+43.12

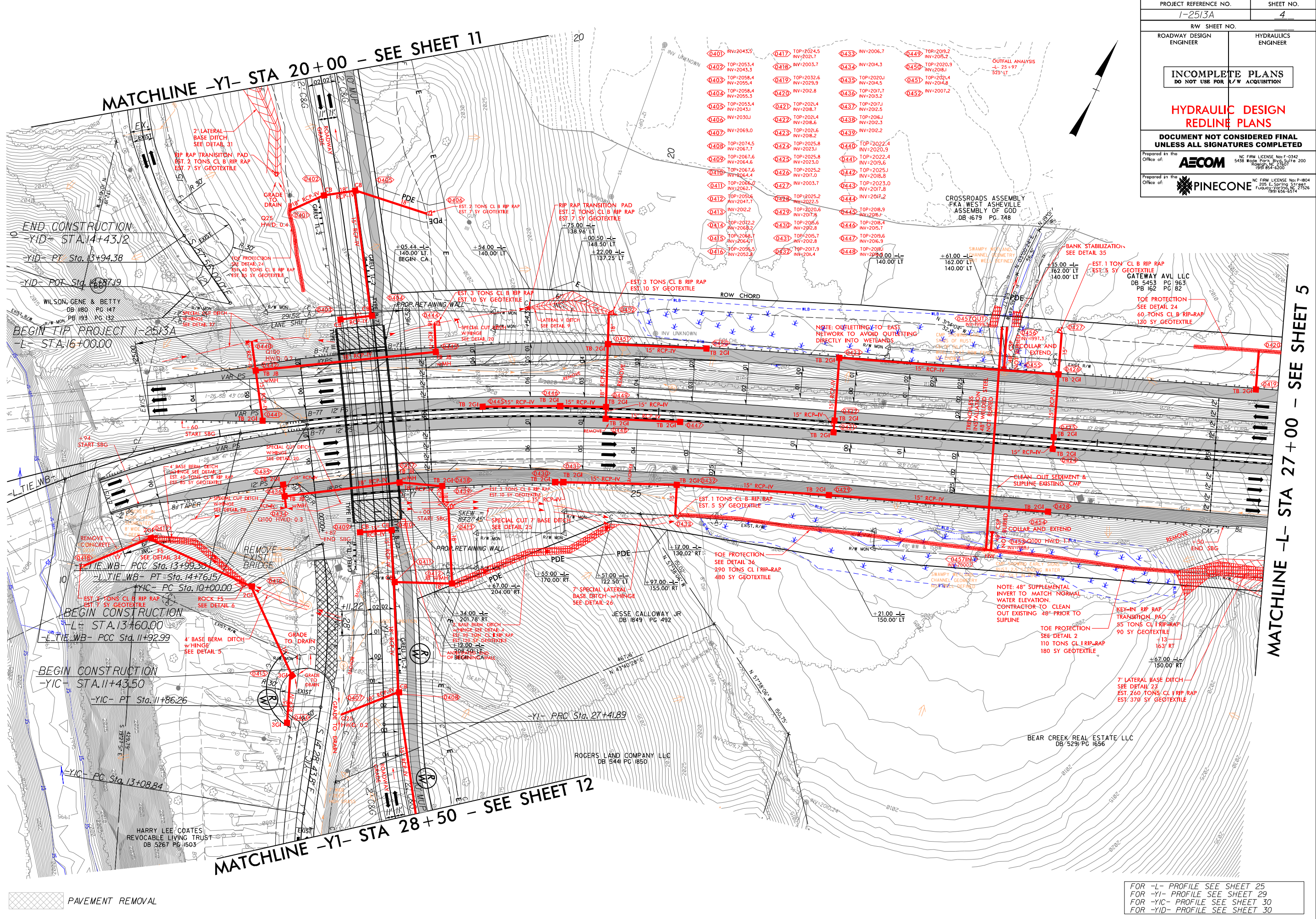
PROJECT REFERENCE NO. 1-2513A		SHEET NO. 2A-14	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of:  PINECONE NC FIRM LICENSE No. P-804 205 E. Spring Street FARGO, N.D. 58103 701.656.6314			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

A1	12" PCC PAVE.	C8	VAR. S9.5C
A2	14" CONC. PAVE.	C9	1½" S9.5D
A3	8" RCP	C10	3" S9.5D
A4	7" CONC. PAVE.	C11	VAR. S9.5D
A5	6" CONC. PAVE.	D1	2½" I19.0C
C1	1¼" S9.5B	D2	4" I19.0C
C2	1½" S9.5B	D3	VAR. I19.0C
C3	2½" S9.5B	E1	3" B25.0C
C4	3" S9.5B	E2	4" B25.0C
C5	VAR. S9.5B	E3	7½" B25.0C
C6	1½" S9.5C	E4	8" B25.0C
C7	3" S9.5C	E5	9" B25.0C
		E6	VAR. B25.0C
		J1	5.25" ABC
		J2	6" ABC
		J3	8" ABC
		J4	10.5" ABC
		J5	VAR. ABC
		K1	8" CHEM. STAB.
		K2	CL IV SUB. STAB.
		N1	NONWOVEN GEO.
		N2	GEO. SOIL STAB.
		R1	1'-6" C&G
		R2	2'-6" C&G
		R3	8"x18" CURB
		R4	5" MONO ISLAND
		R5	EXPRESS. GUTTER
		R6	SH. BERM GUTTER
		R7	DOUBLE FACE BAR.
		R8	SINGLE SL. BAR.
		R9	PRECAST BARRIER
		R10	BARRIER RAIL
		S	4" CONC. SW.
		T	EARTH MATERIAL
		U	EXIST. PVMT.
		V1	RUMBLE STRIPS
		V2	1½" MILLING
		V3	VAR. MILLING
		W1	WEDGING DET.#1
		W2	WEDGING DET.#2

5/14/99

2/28/2022
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REVISIONS

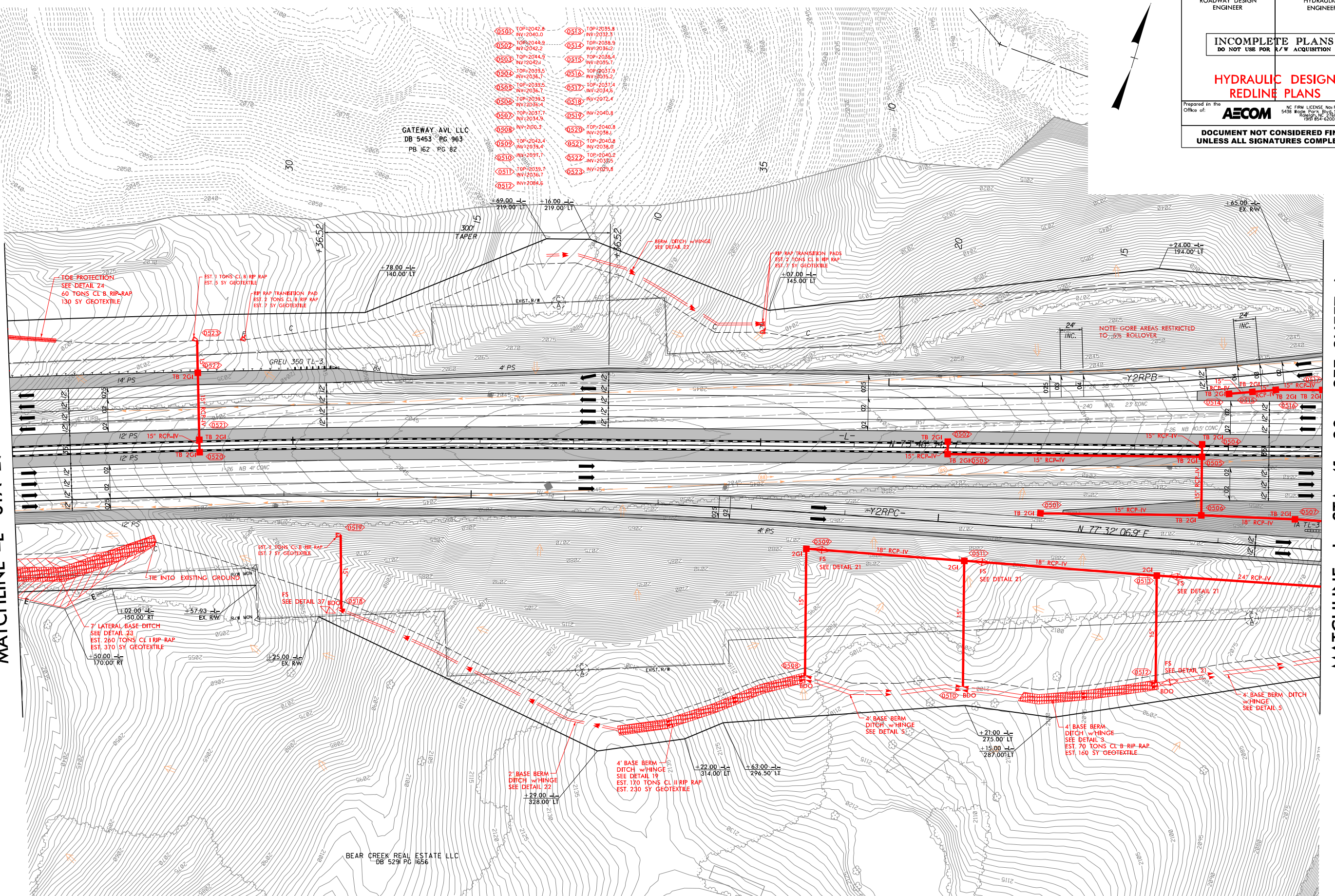


PROJECT REFERENCE NO. 1-2513A		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
HYDRAULIC DESIGN REDLINE PLANS			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0342 5438 West Park Blvd., Suite 200 Fayetteville, NC 28404 1991 654-6200	
Prepared in the Office of: PINECONE		NC FIRM LICENSE No: P-1804 405 E. Spring Street Fayetteville, NC 28404 1991 656-6514	

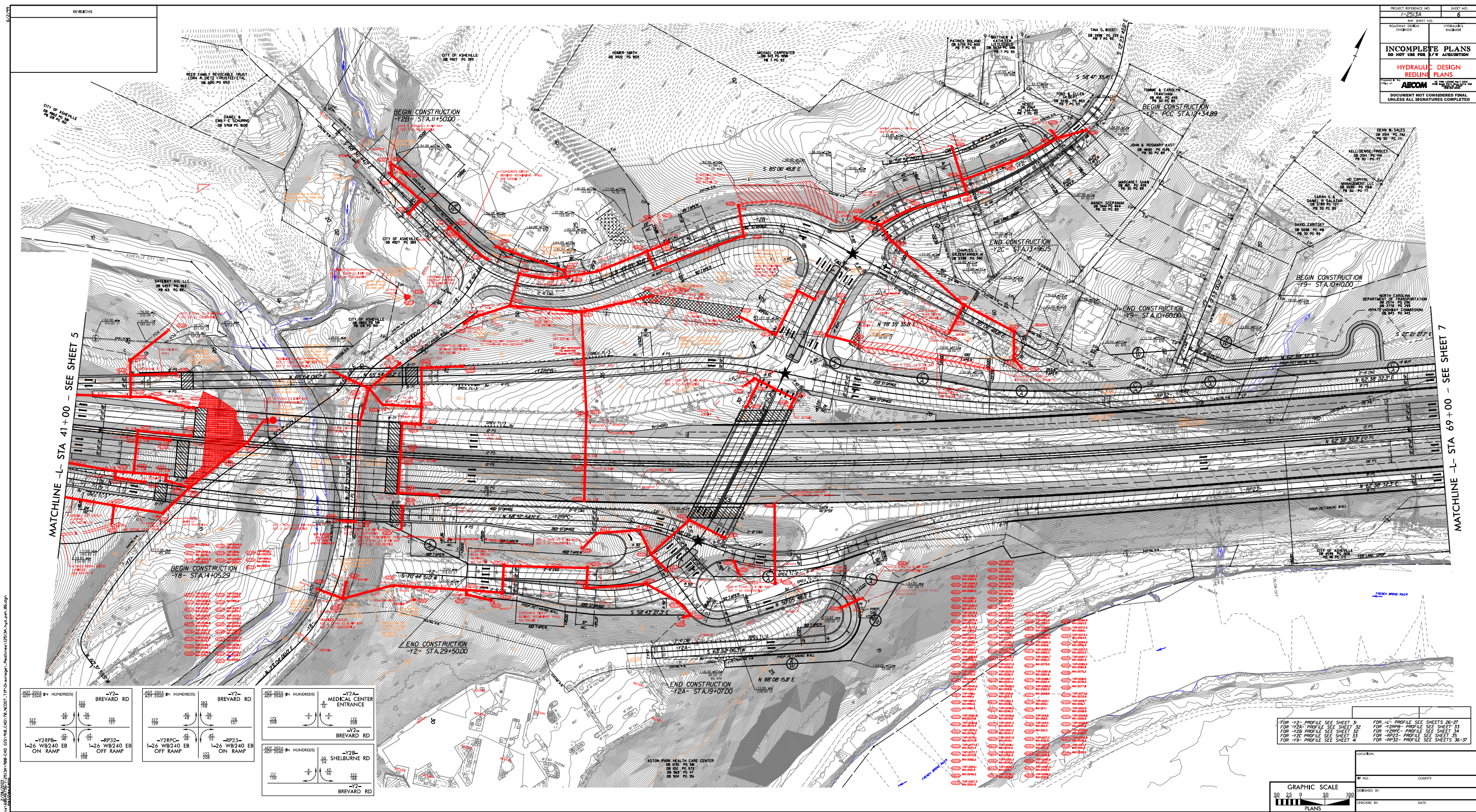
FOR -L- PROFILE SEE SHEET 25
FOR -YI- PROFILE SEE SHEET 29
FOR -YIC- PROFILE SEE SHEET 30
FOR -YID- PROFILE SEE SHEET 30

MATCHLINE -L- STA 27+00 - SEE SHEET 4

MAICHLINE -L- STA 41+00 - SEE SHEET 6



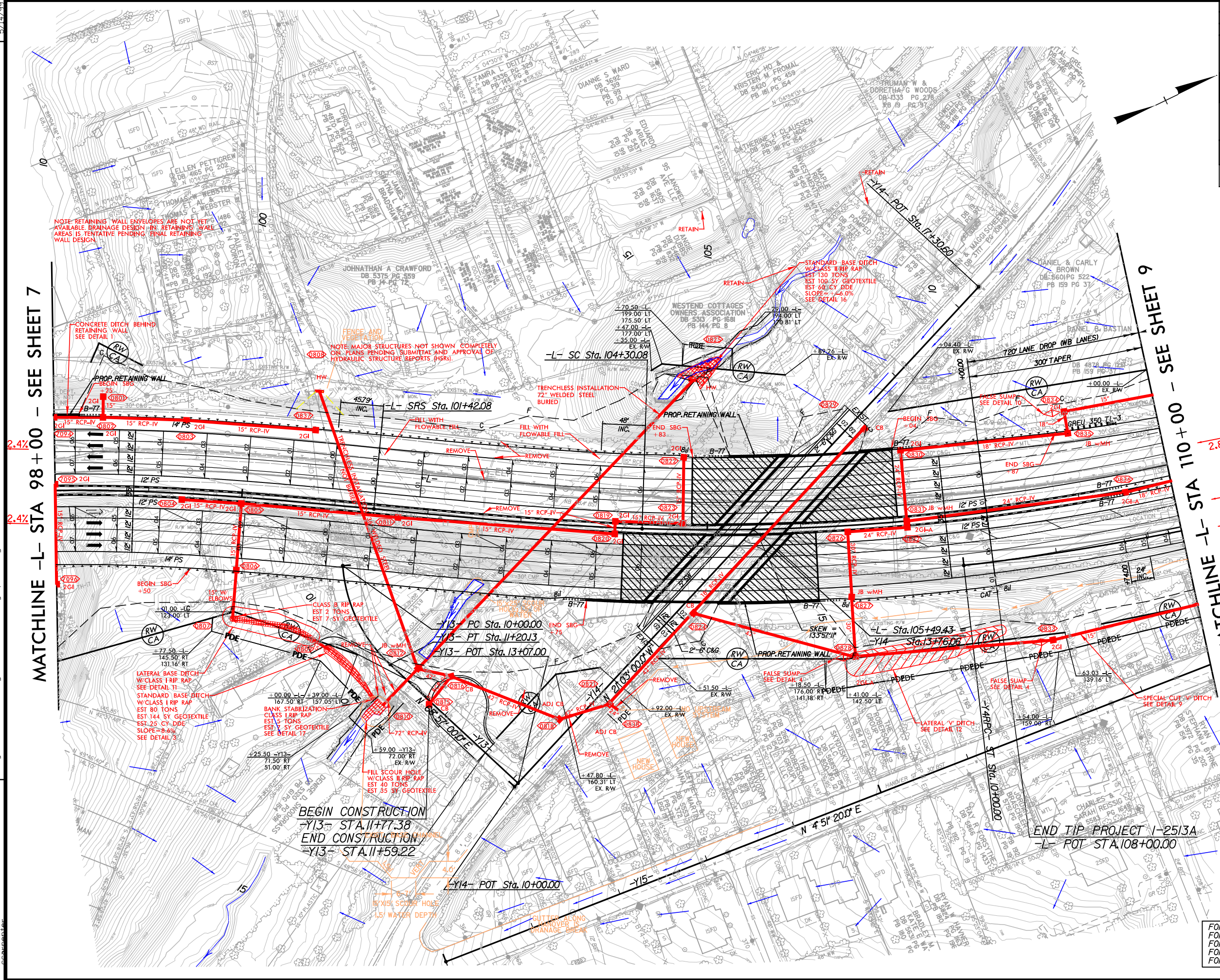
FOR -L- PROFILE SEE SHEET 25
FOR -Y2RPB- PROFILE SEE SHEET 33
FOR -Y2RPC- PROFILE SEE SHEET 34



PROJECT REFERENCE NO.		SHEET NO.	
1-2513A		6	
RAW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULIC ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION HYDRAULIC DESIGN REDLINE PLANS			
Prepared by: AECOM City of		NC PLAN LICENSE NO. 1-0342 S-08 JOHN W. HARRIS, P.E. 10/24/01 10/24/01	
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PROJECT REFERENCE NO.		SHEET NO.
I-25/3AC		8
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
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)		
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FOR -L- PROFILE SEE SHEET 16
FOR -Y3RPA- PROFILE SEE SHEET 27
FOR -Y4RPC- PROFILE SEE SHEET 29
FOR -Y13- PROFILE SEE SHEET 31
FOR -Y14- PROFILE SEE SHEET 31

 PAVEMENT REMOVAL

BEGIN CONSTRUCTION
-Y15- STA. 21+00.00

END CONSTRUCTION (LEFT
-L- POT STA. 116+50.00

END CONSTRUCTION (RIGHT
-L- POT STA.121+20.00

END CONSTRUCTION
-Y15- STA. 29+65.85

-Y15- POT Sta. 30+00.00
-Y4RPC- PT Sta. 24+35.76
-Y4RPC- POT Sta. 24+61.24

-Y4- PT Sta. 15+20.63

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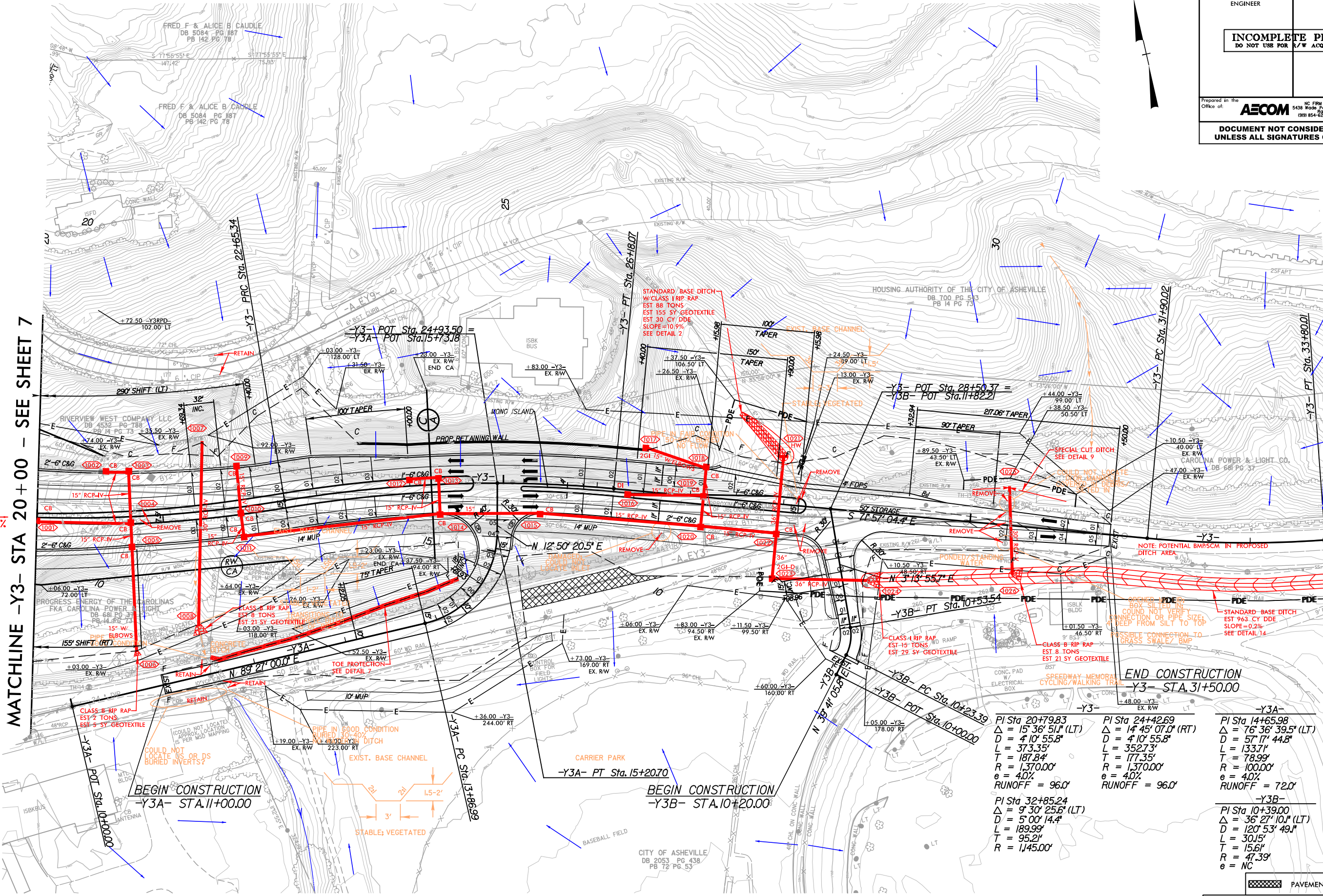
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5/14/99

MATCHLINE -Y3- STA 20+00 - SEE SHEET 7

5.6%



MATCHLINE -Y3- STA 33+89.58 SEE SHEET 10A
MATCHLINE -Y3- STA 34+00.00 SEE SHEET 10B

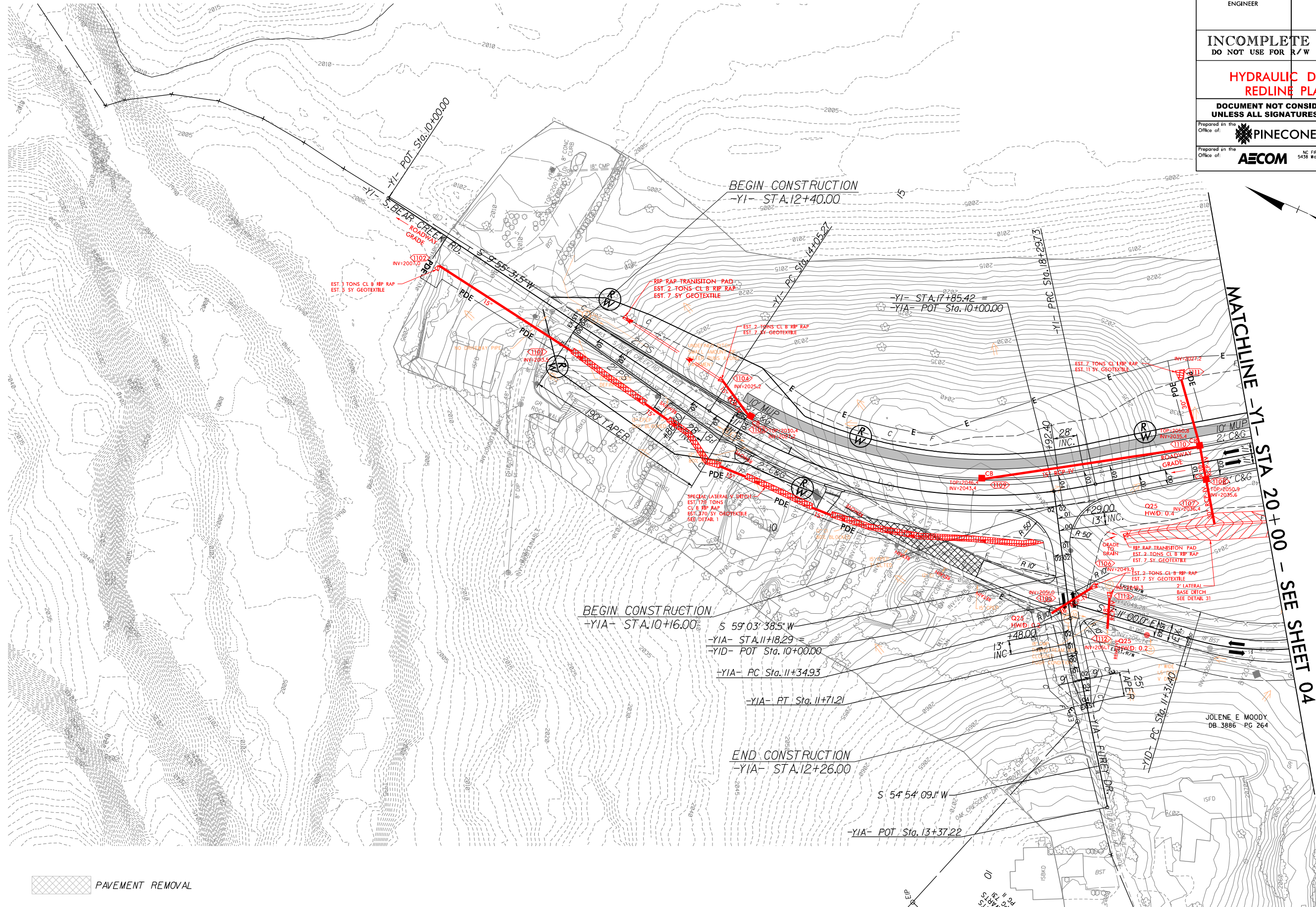
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RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM		NC FIRM LICENSE No F-0342 5438 Wade Park Boulevard, Suite 200 Charlotte, NC 28217 (919) 854-6200 • (919) 854-6259 FAX	
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-Y3A-		-Y3B-	
PI Sta 20+79.83	PI Sta 24+42.69	PI Sta 14+65.98	PI Sta 10+39.00
$\Delta = 15' 36" 51.1" (LT)$	$\Delta = 14' 45" 07.0" (RT)$	$\Delta = 76' 36" 39.5" (LT)$	$\Delta = 36' 27" 10.1" (LT)$
$D = 4' 10" 55.8"$	$D = 4' 10" 55.8"$	$D = 57' 17" 44.8"$	$D = 120' 53" 49.1"$
$L = 373.35'$	$L = 352.73'$	$L = 133.71'$	$L = 301.5'$
$T = 187.84'$	$T = 177.35'$	$T = 78.99'$	$T = 156.1'$
$R = 1,370.00'$	$R = 1,370.00'$	$R = 100.00'$	$R = 47.39'$
$e = 4.0\%$	$e = 4.0\%$	$e = 4.0\%$	$e = NC$
$RUNOFF = 96.0'$	$RUNOFF = 96.0'$	$RUNOFF = 72.0'$	

PAVEMENT REMOVAL

FOR -Y3- PROFILE SEE SHEET 25-26
FOR -Y3A- PROFILE SEE SHEET 26
FOR -Y3B- PROFILE SEE SHEET 26

PROJECT REFERENCE NO.	SHEET NO.
1-2513A	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
HYDRAULIC DESIGN REDLINE PLANS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	PINECONE NC FIRM LICENSE No: P-1804 405 E. Spring Street Fayetteville, NC 28526 1991 656-6514
Prepared in the Office of:	AECOM NC FIRM LICENSE No: F-0342 5438 Rose Park Blvd., Suite 200 Raleigh, NC 27609 1991 854-6200



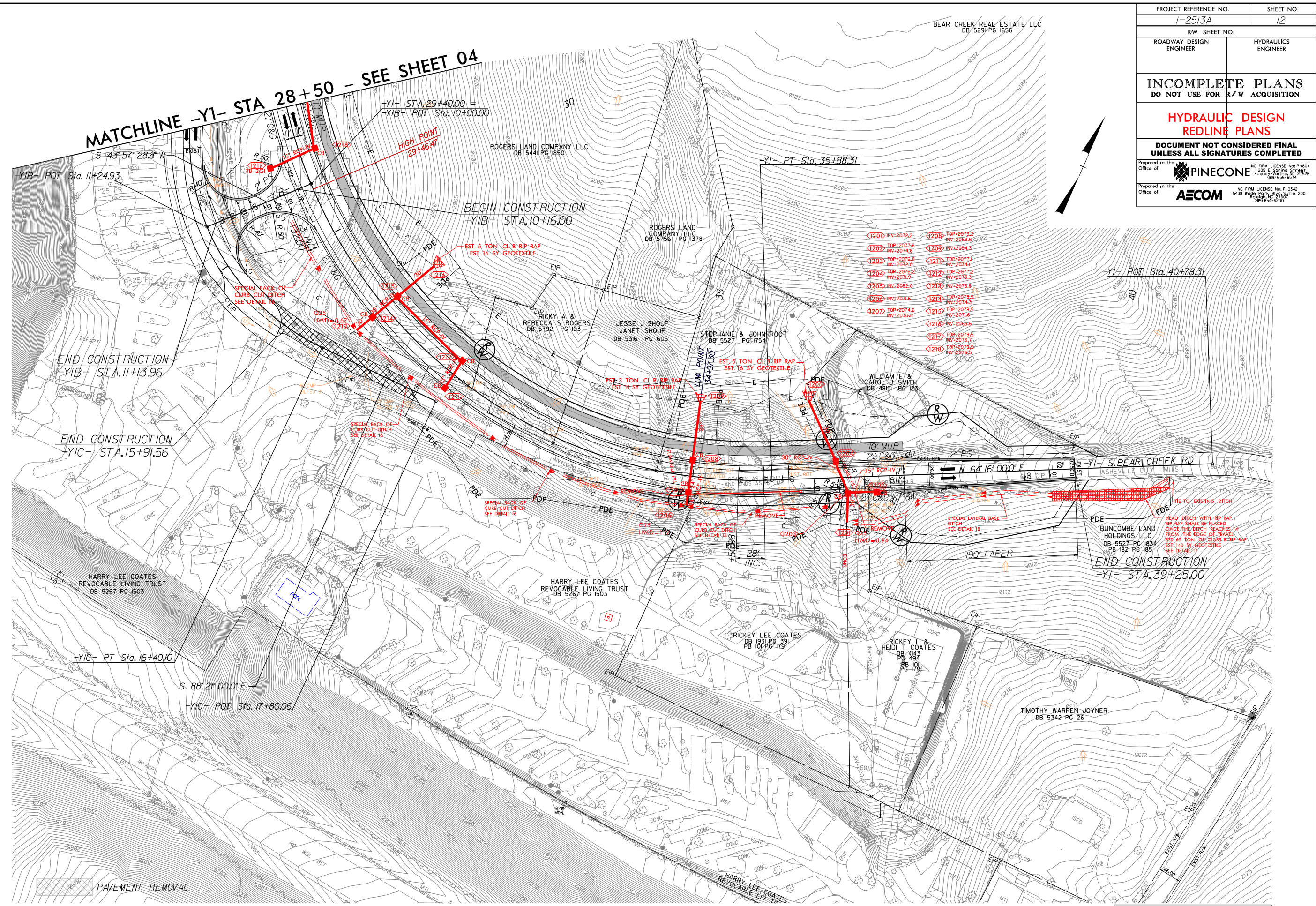
FOR -YI- PROFILE SEE SHEET 29
FOR -YIA- PROFILE SEE SHEET 30
FOR -YID- PROFILE SEE SHEET 30

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matthew.kemp

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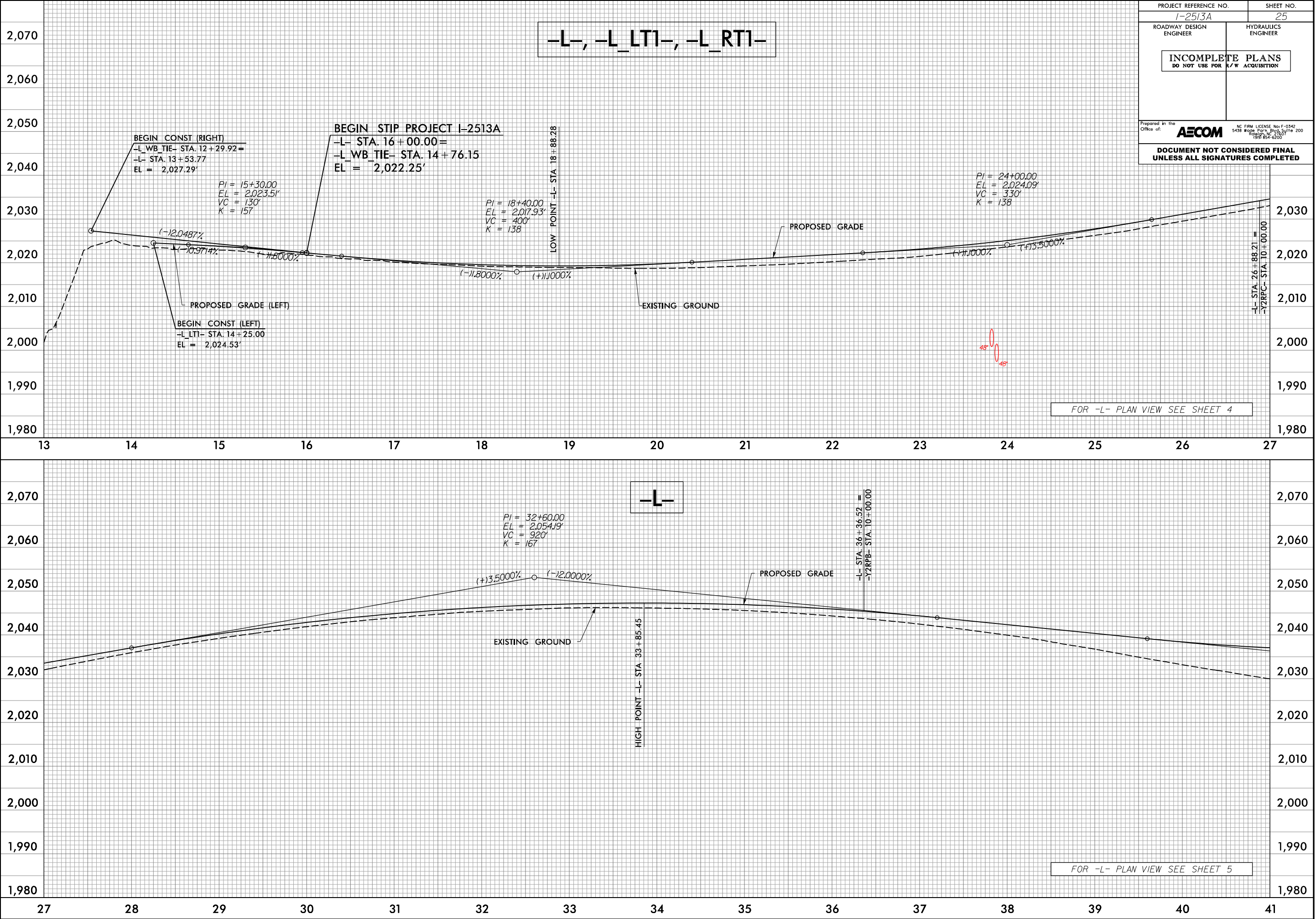
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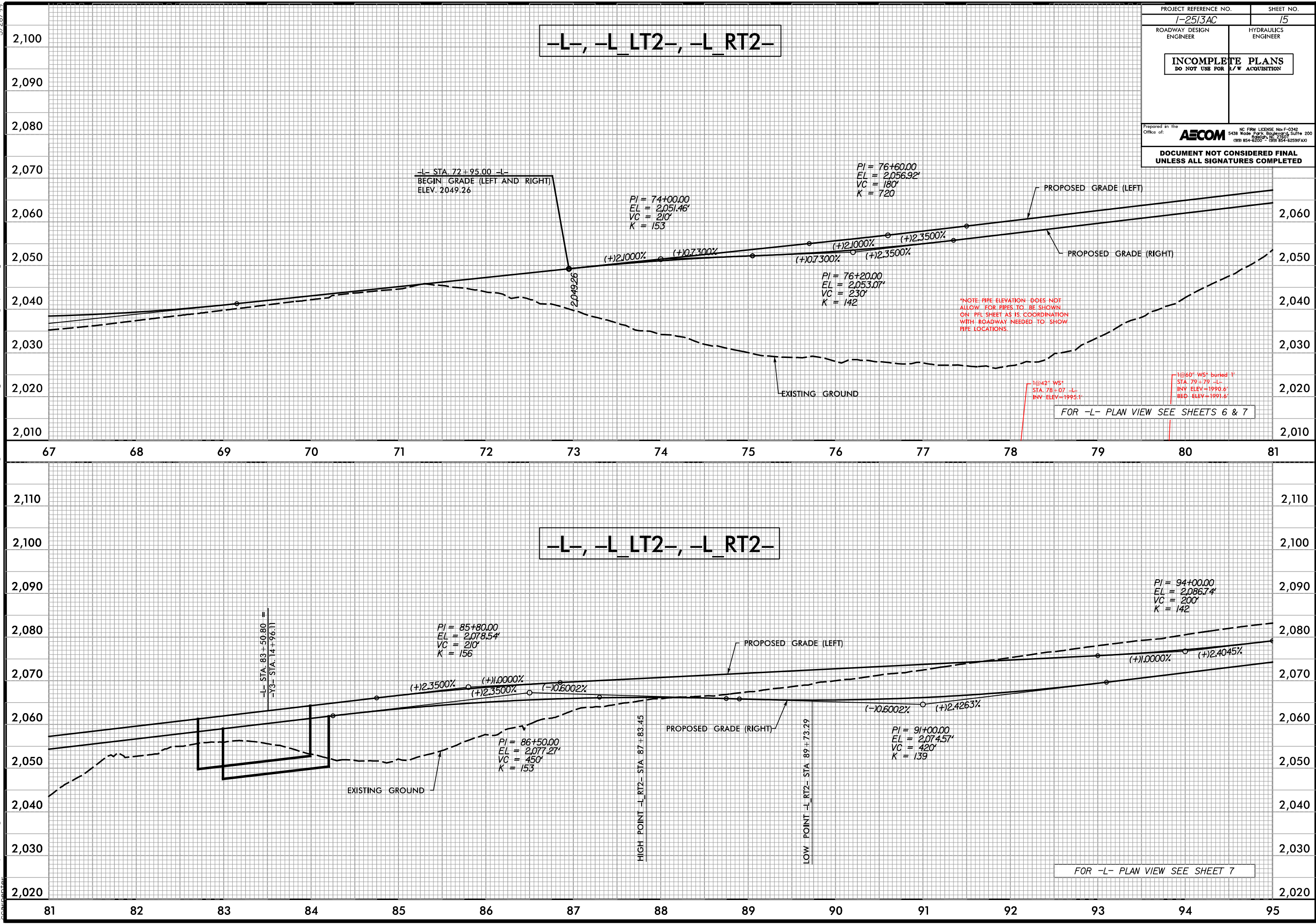
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SHEET NO.	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
HYDRAULIC DESIGN REDLINE PLANS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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FOR -YI- PROFILE SEE SHEET 29
FOR -YIB- PROFILE SEE SHEET 30
FOR -YIC- PROFILE SEE SHEET 30

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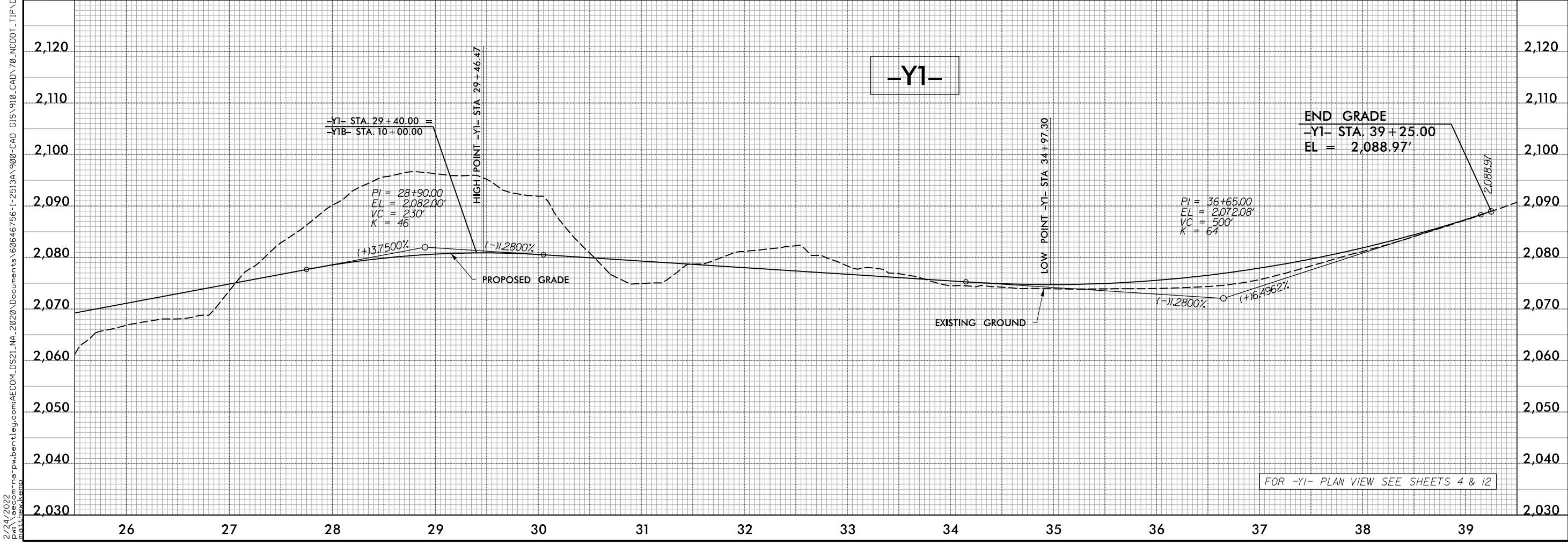
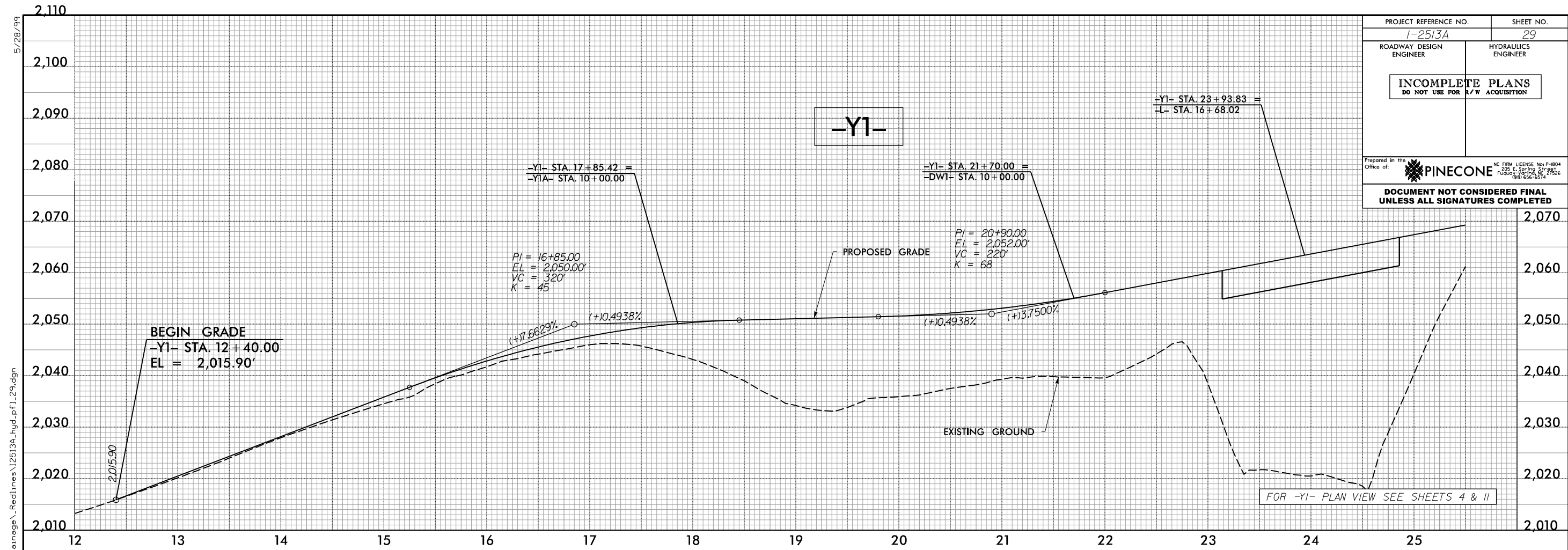
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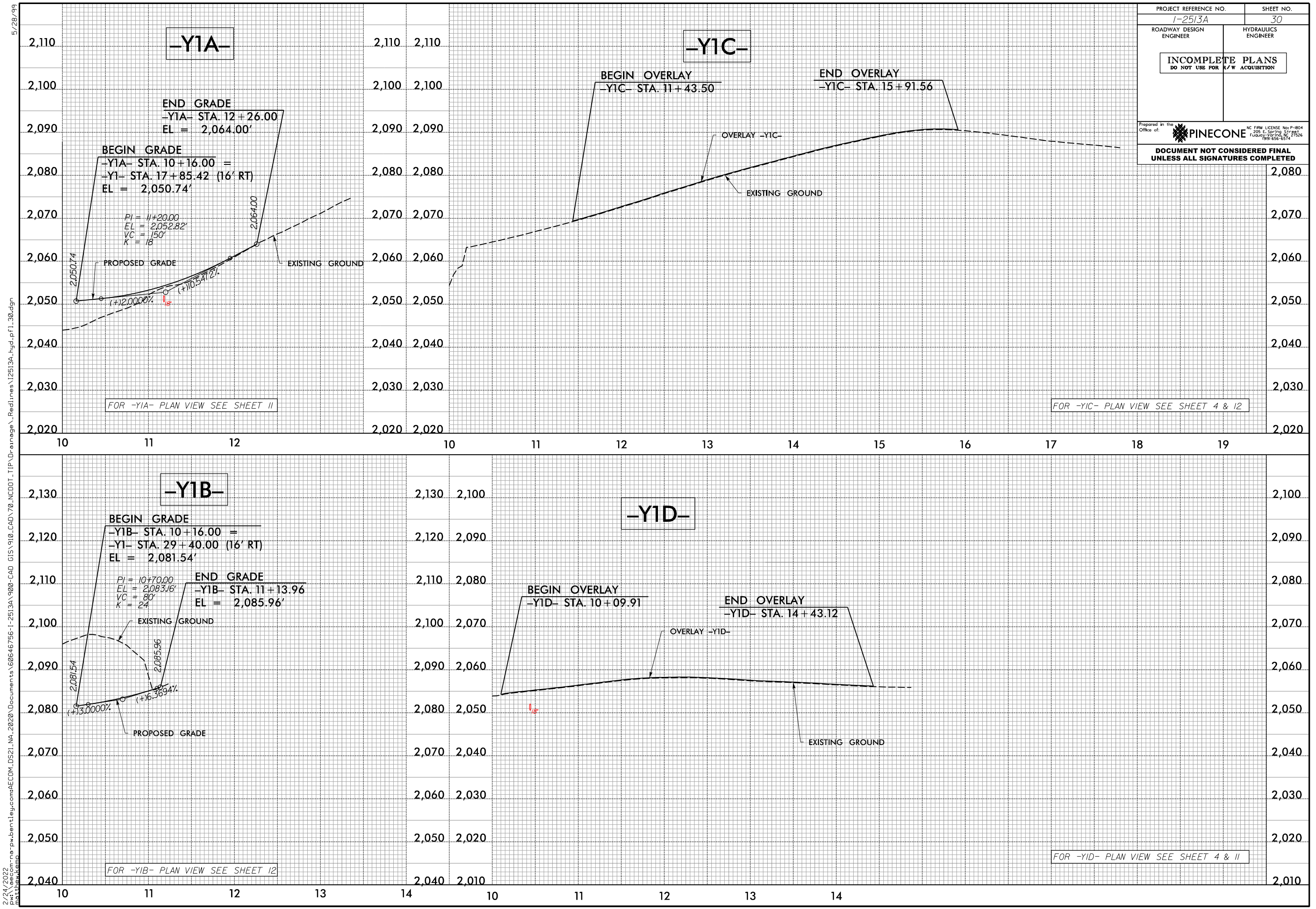
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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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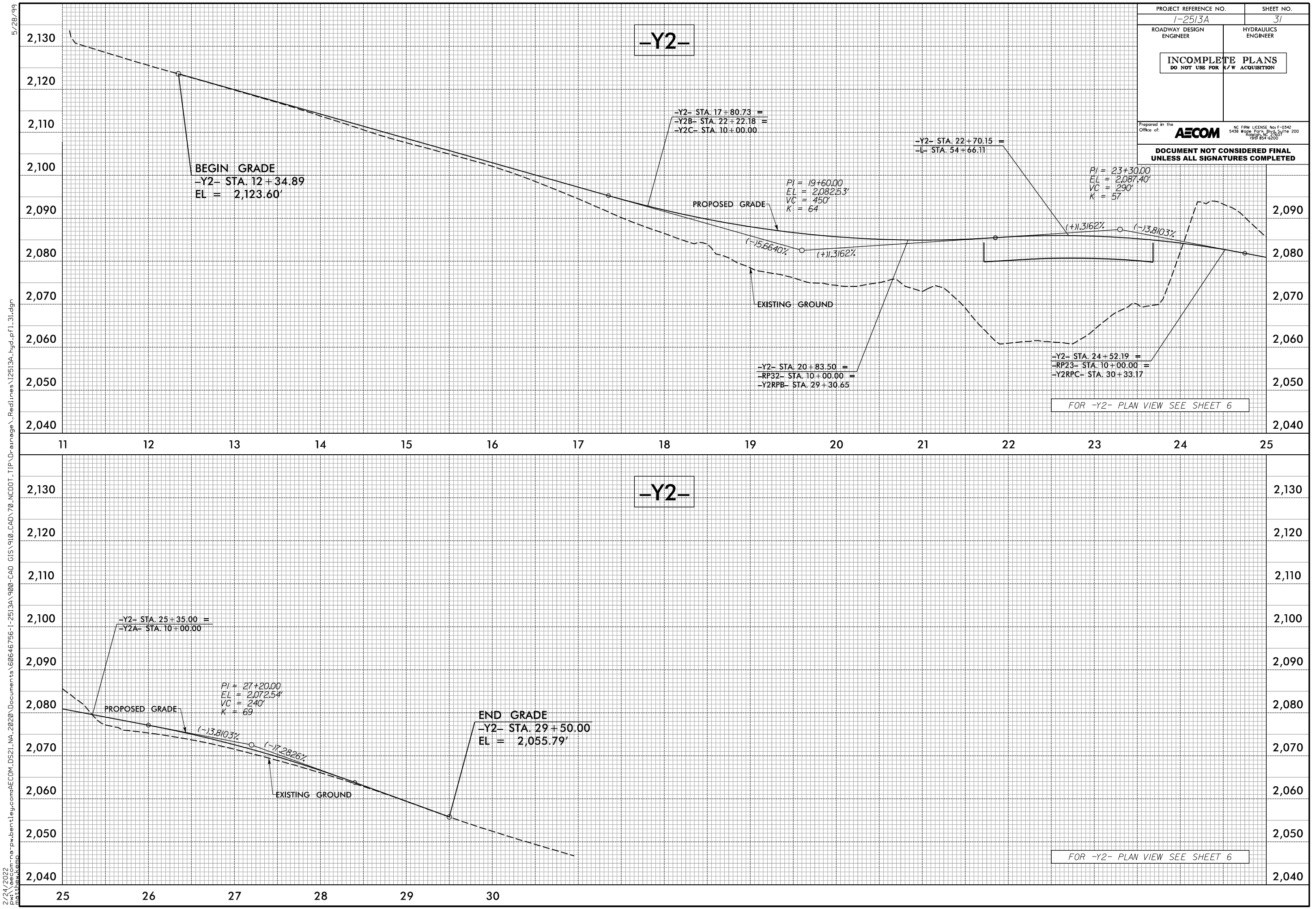
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
Prepared in the Office of: PINECONE NC FIRM LICENSE No. P-1804 205 E. Spring Street Fayetteville, NC 27506 919-656-6574		
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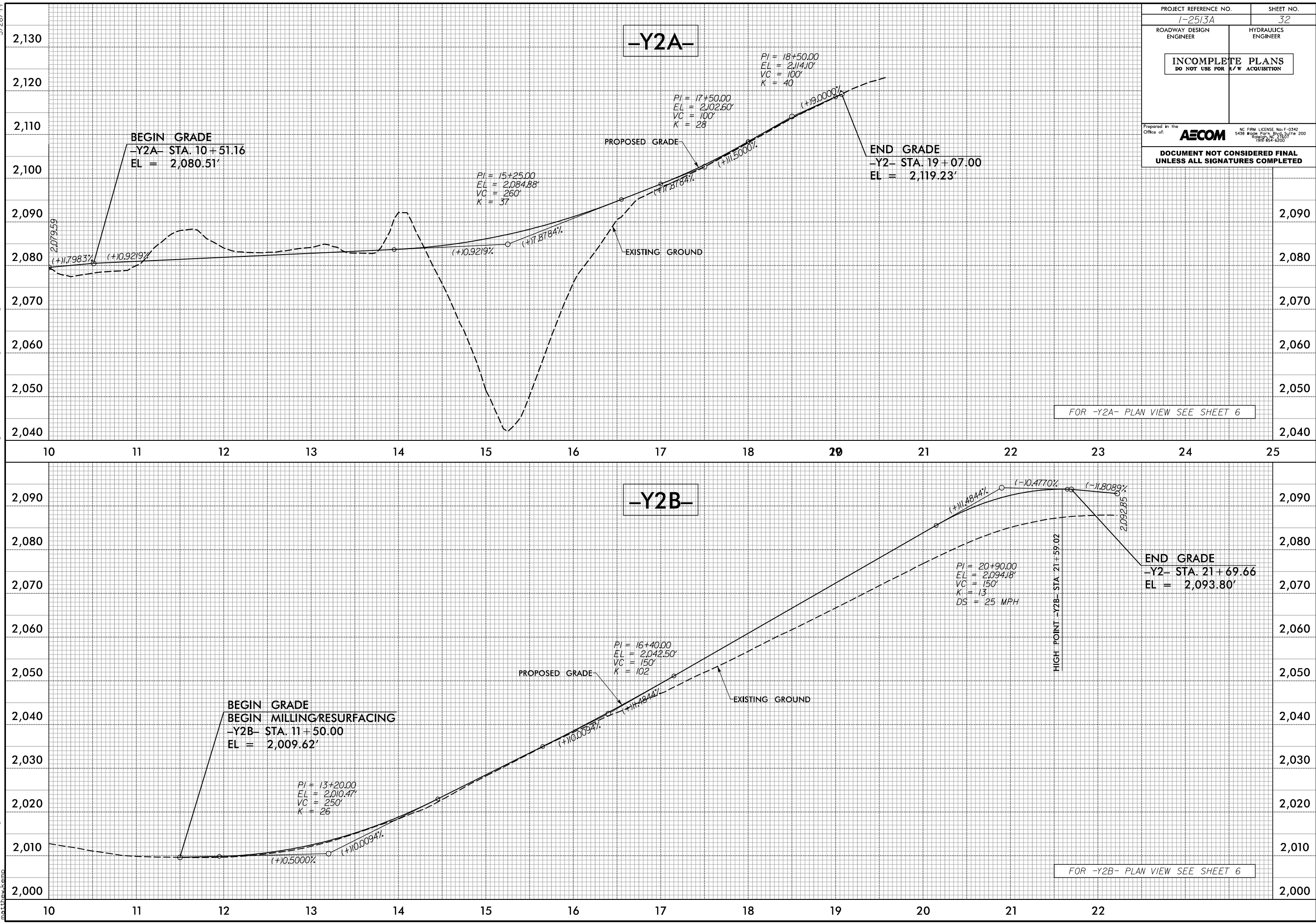
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: PINECONE NC FIRM LICENSE No. P-1804 205 E. Spring Street Fayetteville, NC 27526 919.656.6514			
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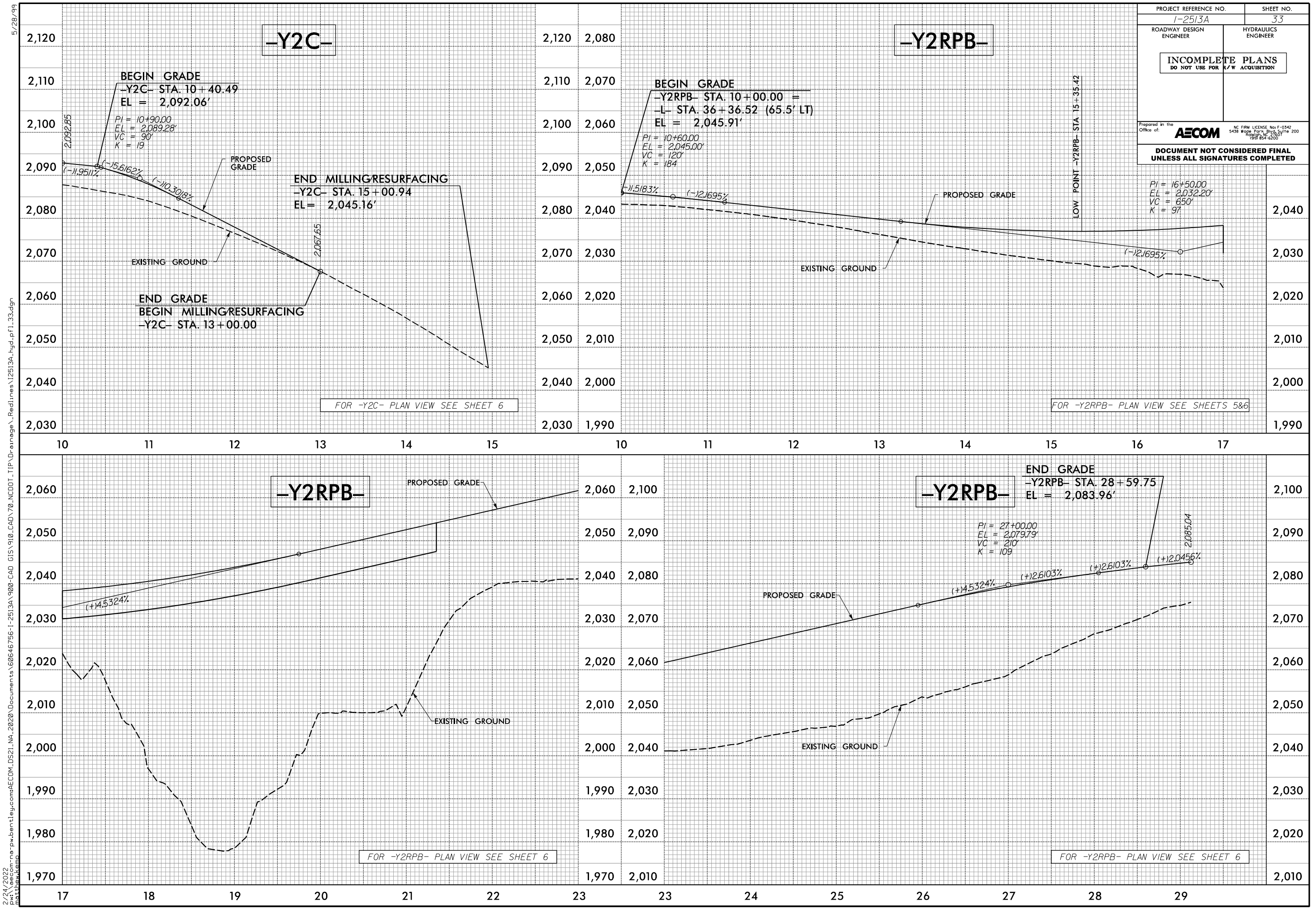
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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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PROJECT REFERENCE NO. 1-2513A		SHEET NO. 32	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of:		NC FIRM LICENSE No: F-0342 5438 Ridge Park Blvd, Suite 200 Raleigh, NC 27607 (919) 854-6200	
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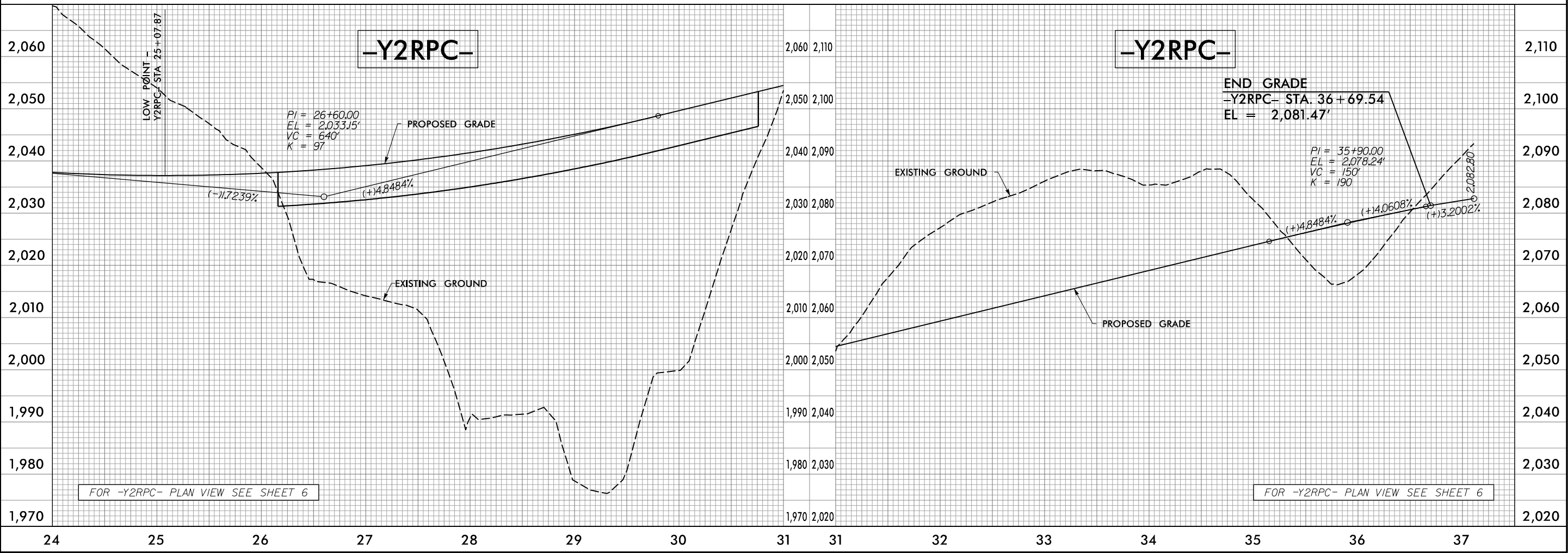
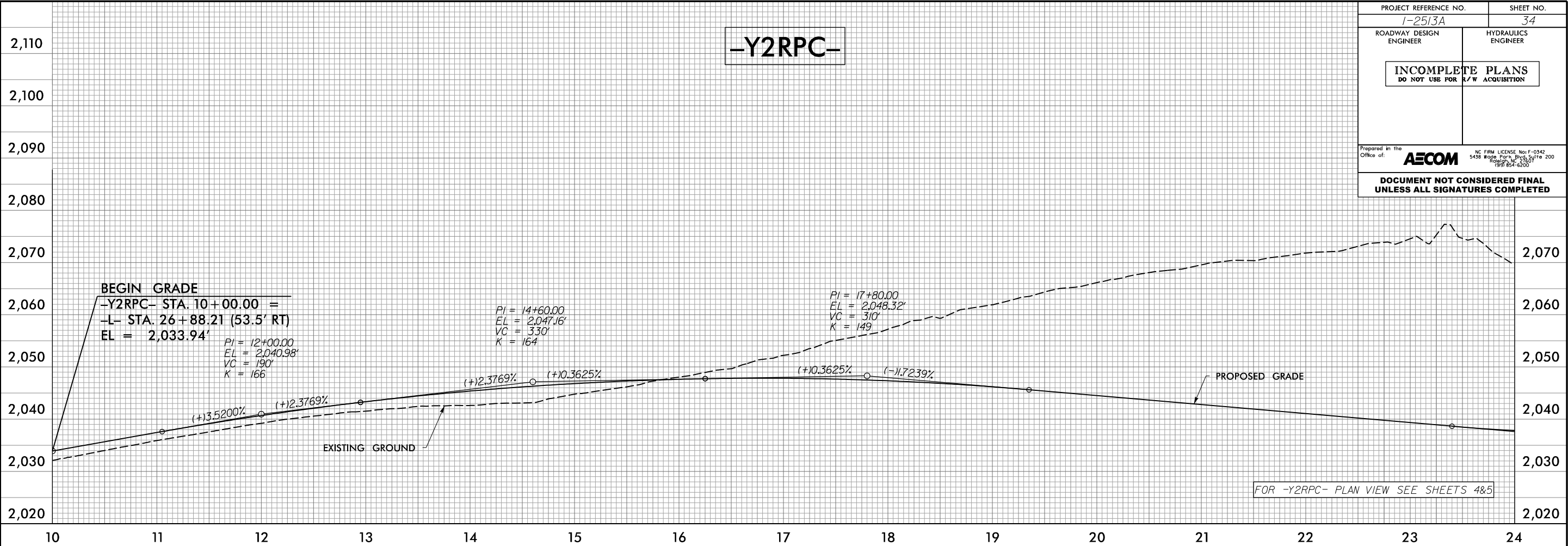


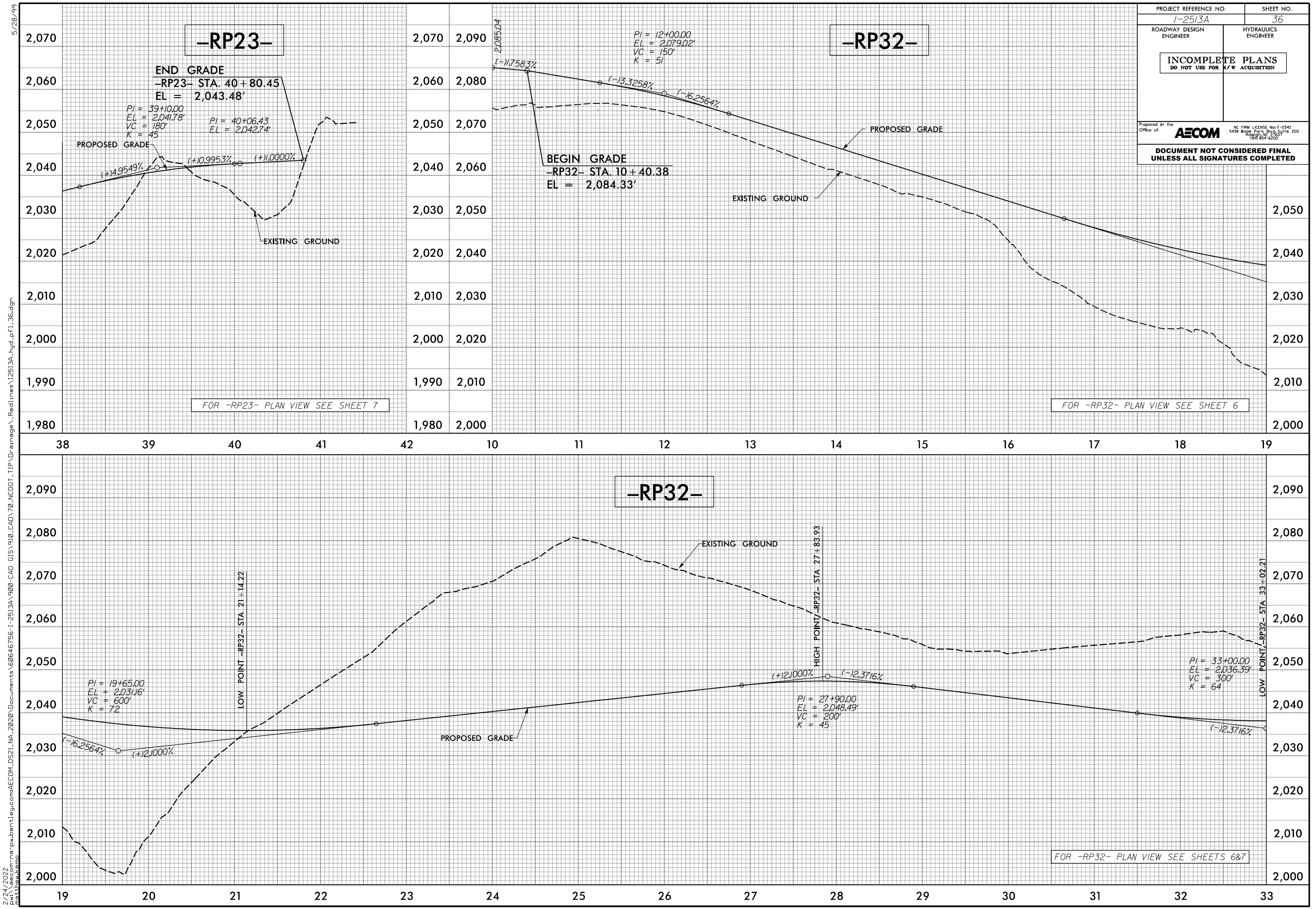
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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0542 5438 Rouse Fork, Blvd, Suite 200 Raleigh, NC 27607 (919) 854-6000	
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matthew.kemp

PROJECT REFERENCE NO. <i>1-2513A</i>		SHEET NO. <i>34</i>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM		NC FIRM LICENSE No: F-0542 5438 Rose Park Blvd, Suite 200 Raleigh, NC 27607 (919) 854-6000	
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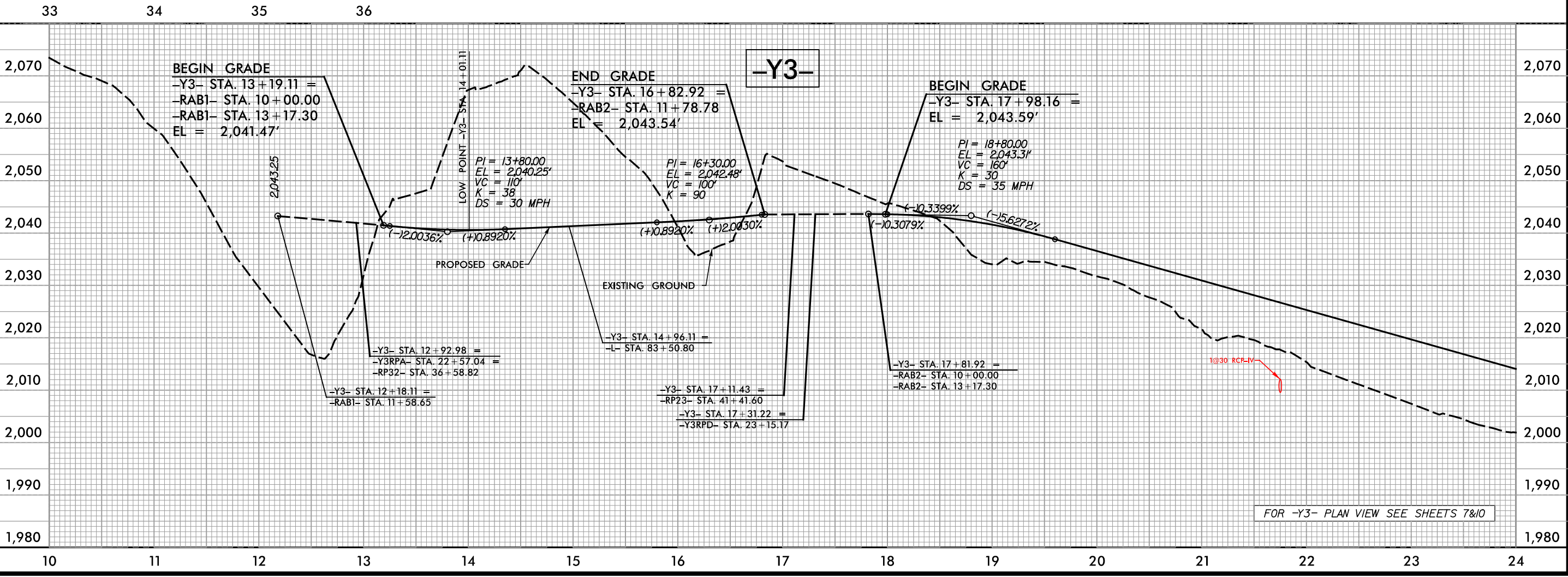
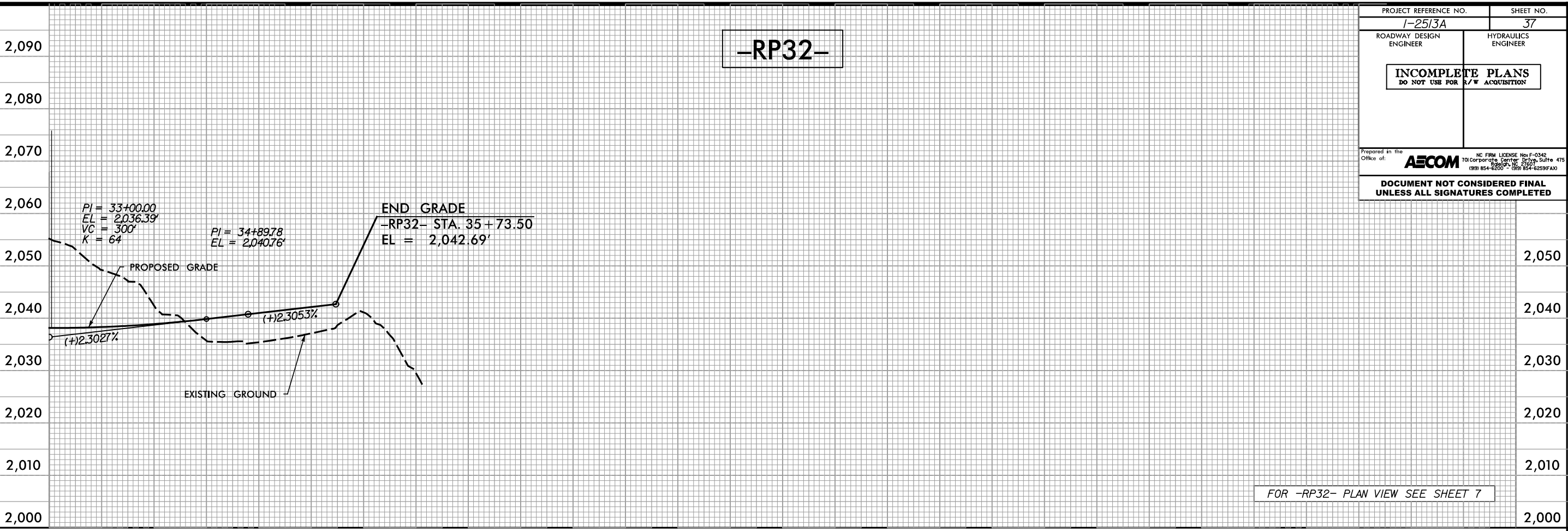


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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
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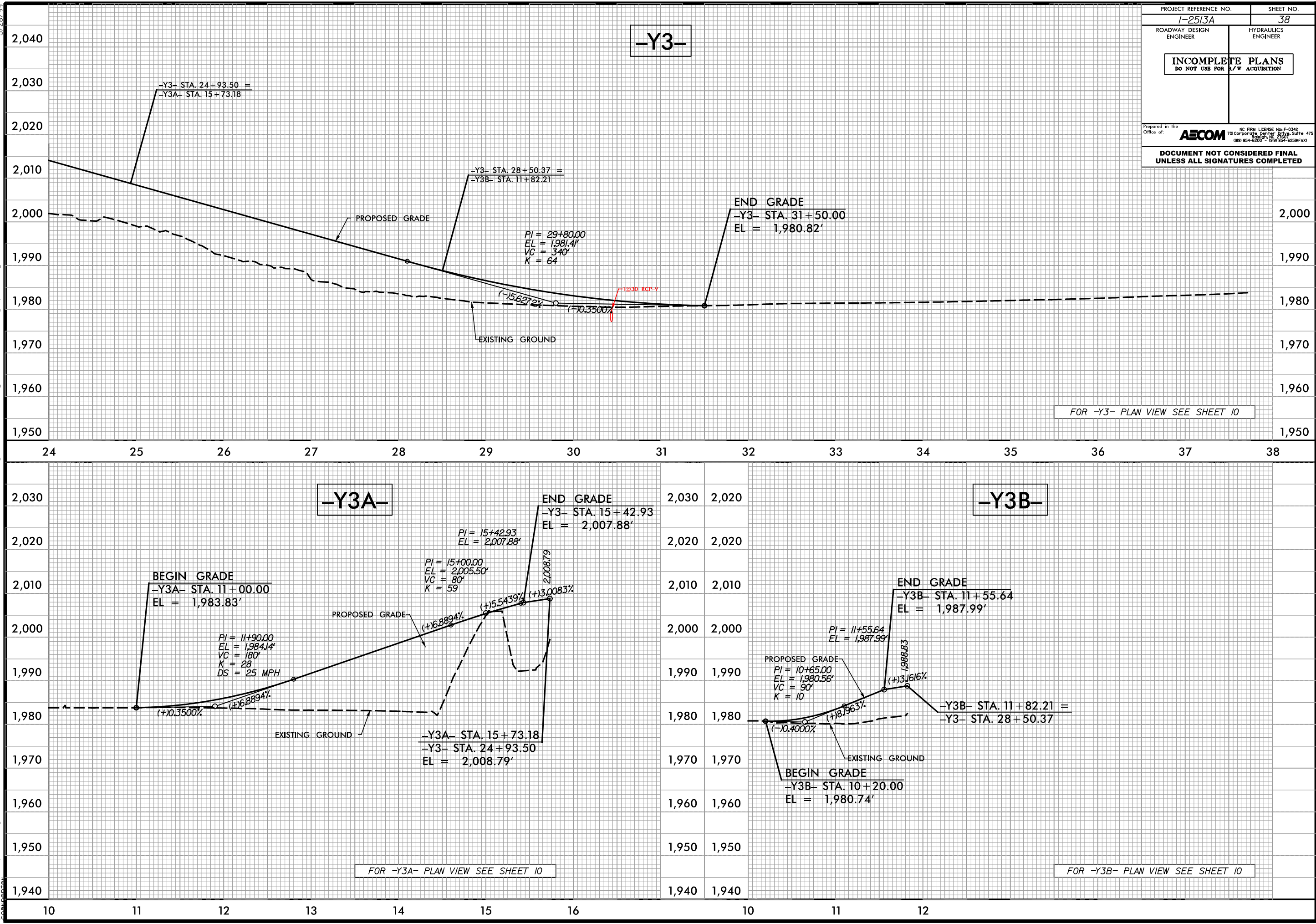
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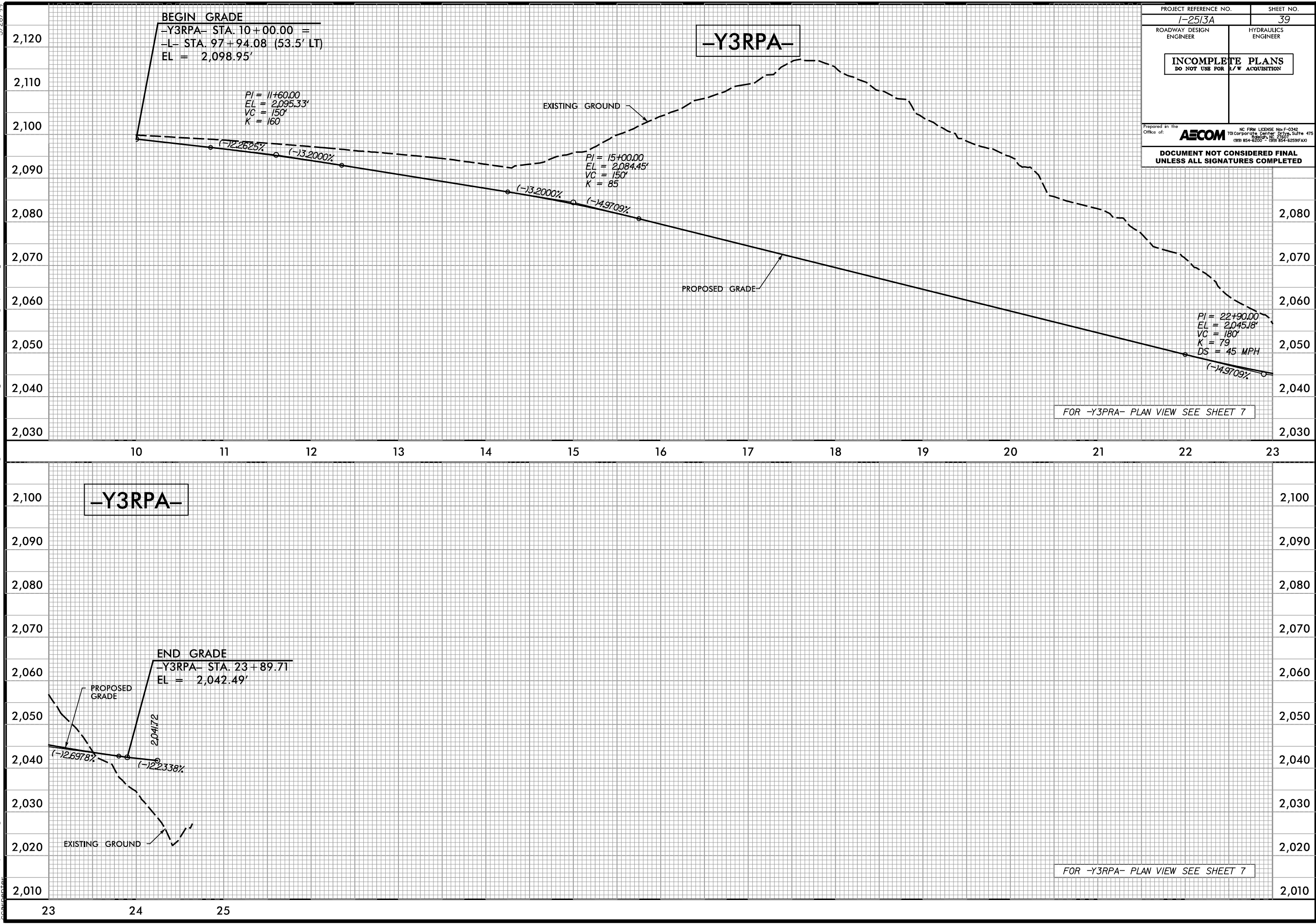


PROJECT REFERENCE NO.		SHEET NO.	
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ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of:		NC FIRM License No.F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27601 (919) 854-6200 • (919) 854-6253(FAX)	
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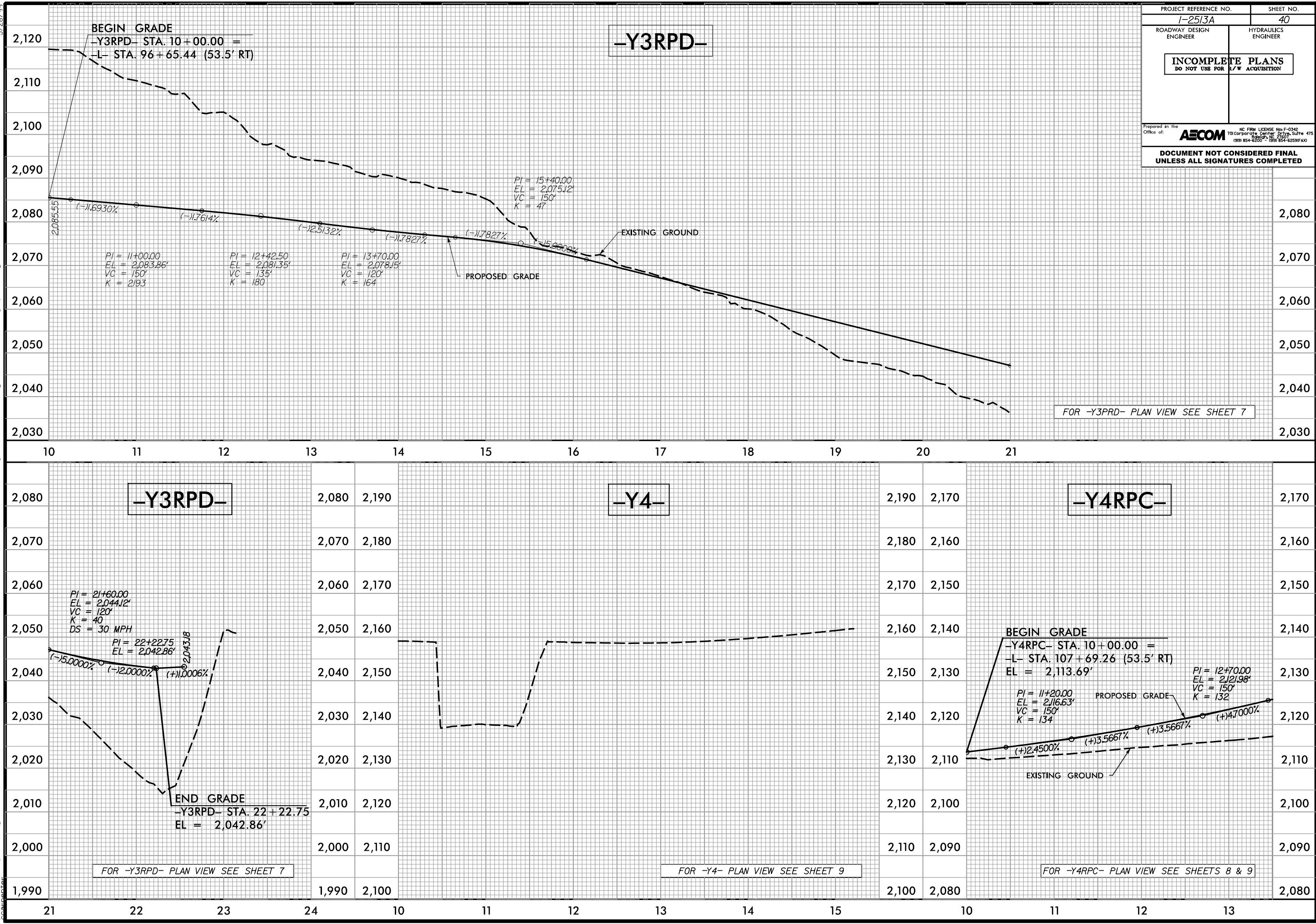


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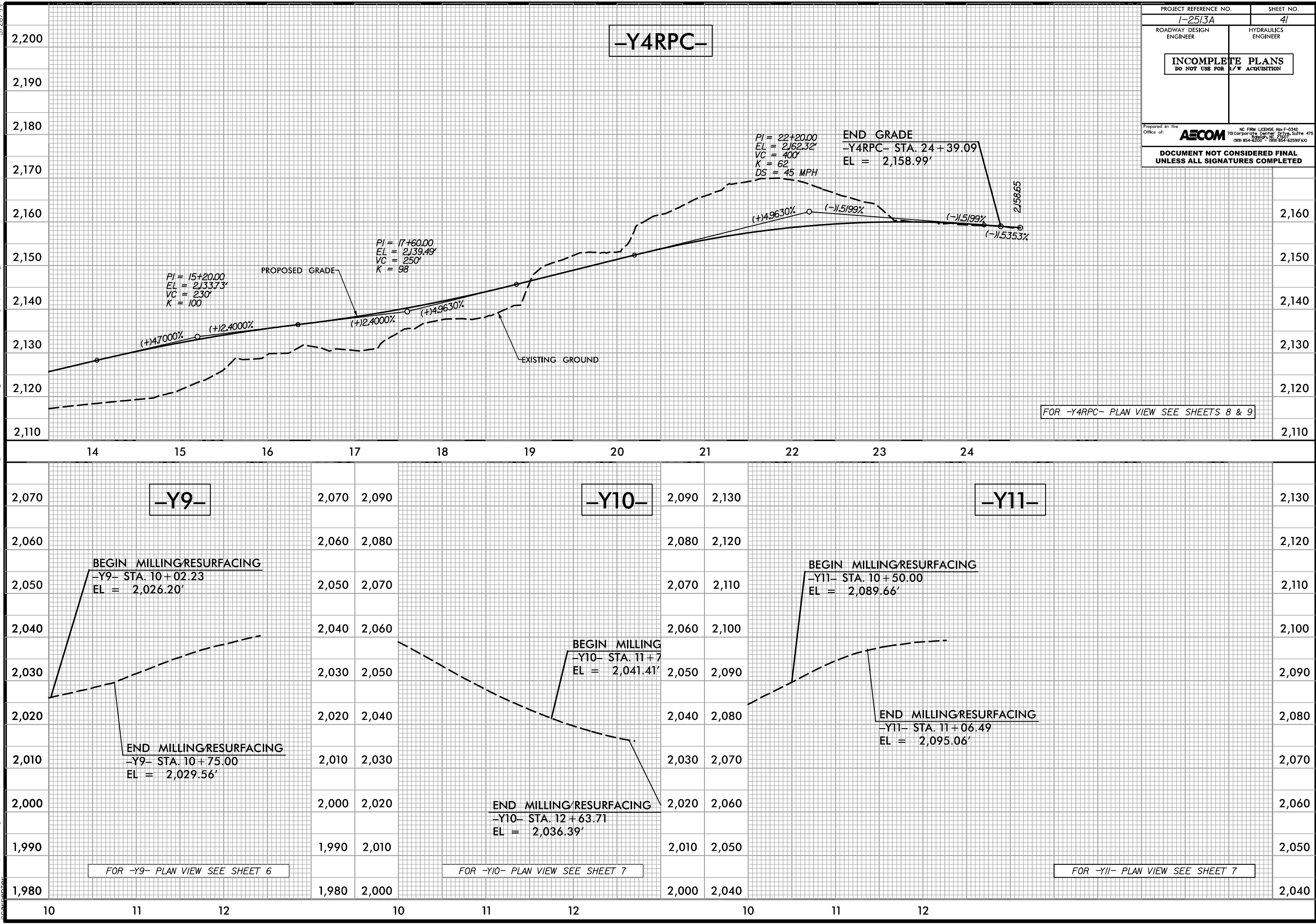


PROJECT REFERENCE NO. I-2513A		SHEET NO. 39	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM 701 Corporate Center Drive, Suite 475 Charlotte, NC 28202 (919) 854-4300 • (919) 854-4303 (FAX)			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

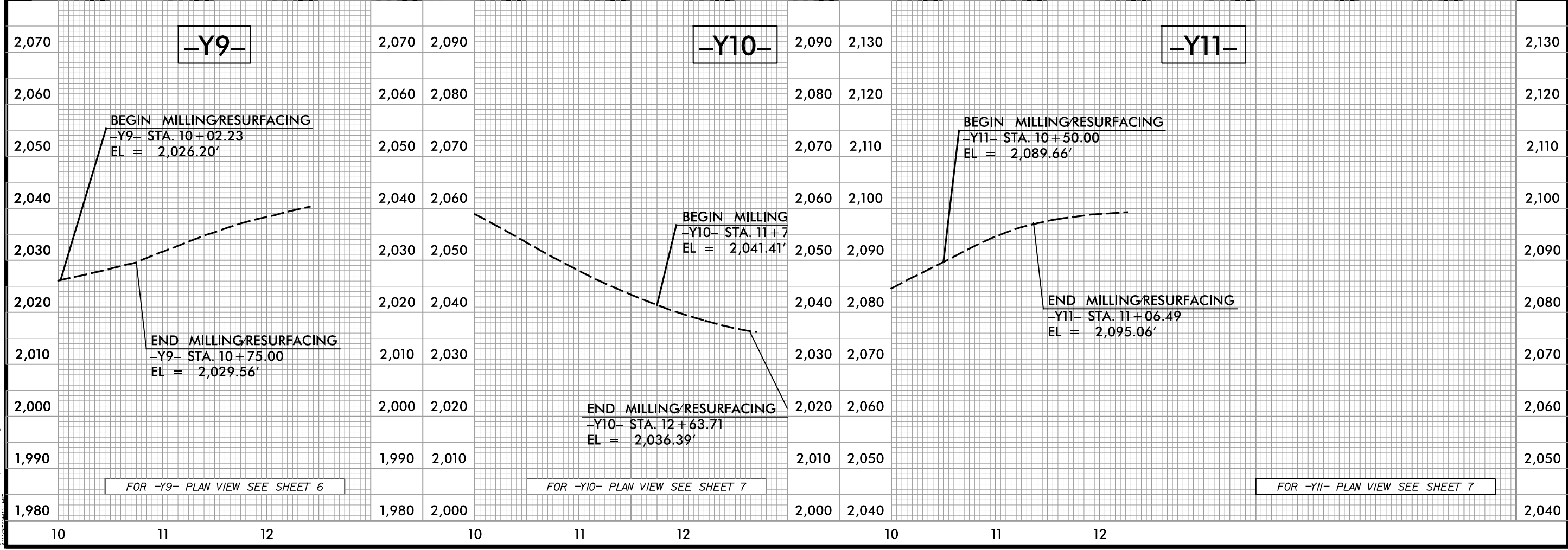
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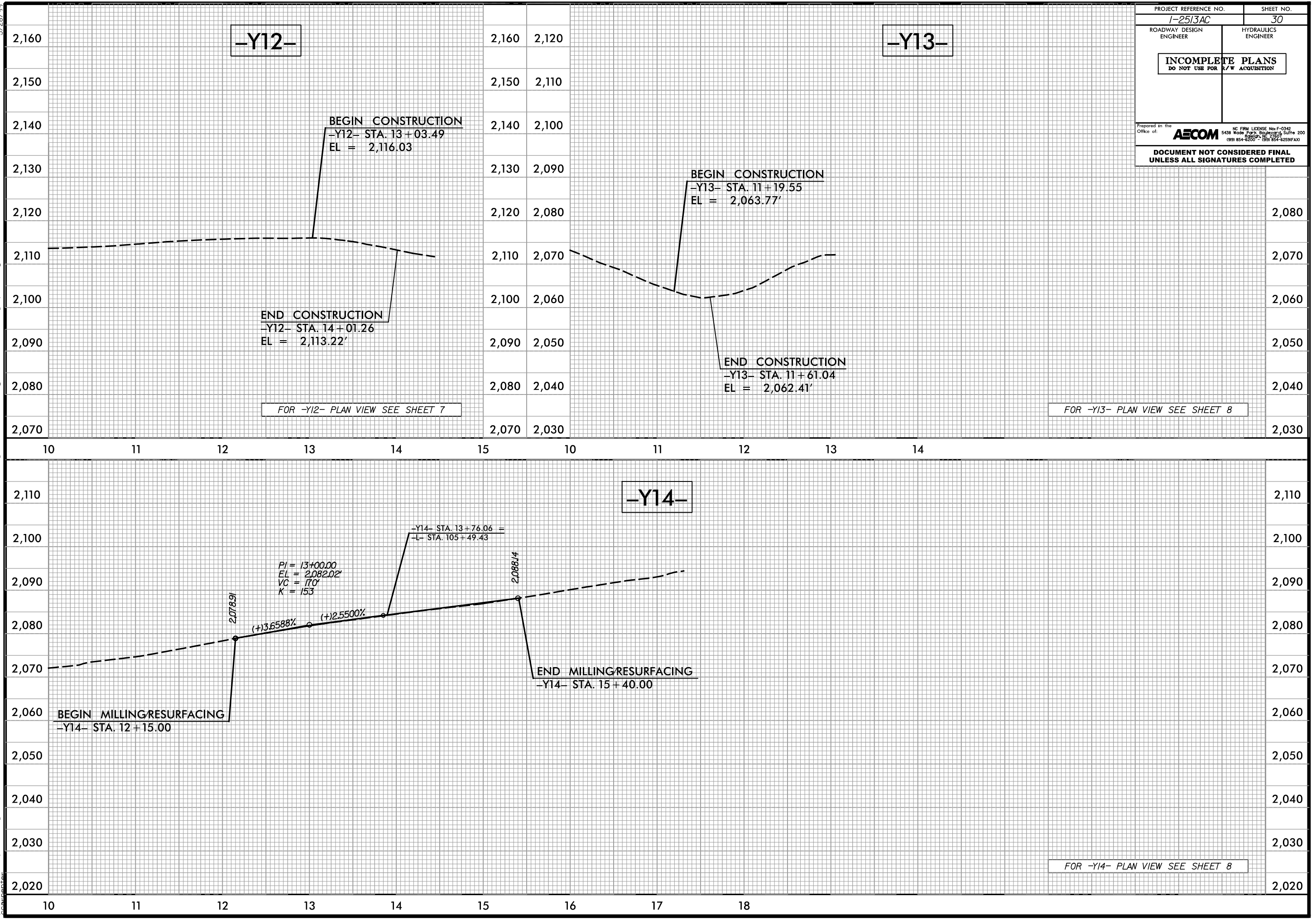
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PROJECT REFERENCE NO. I-2513A		SHEET NO. 41	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM NC FIRM LICENSE No. F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27601 (919) 854-4300 • (919) 854-4253(FAX)			
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PROJECT REFERENCE NO. I-2513A		SHEET NO. 44	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
Prepared in the Office of: AECOM NC FIRM LICENSE NO. F-0342 701 Corporate Center Drive, Suite 475 (919) 854-4300 • (919) 854-4253 (FAX)			
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