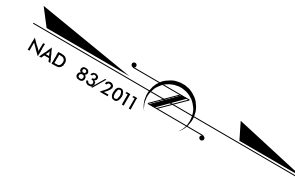
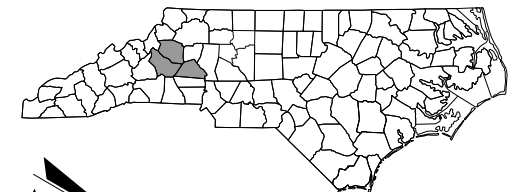


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4700A	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
35993.1.1	NHF-321(18)	PE	



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**BURKE, CALDWELL,
& CATAWBA COUNTIES**

LOCATION: US 321 WIDENING IMPROVEMENTS FROM US 70 IN HICKORY TO JUST SOUTH OF US 321A /NEW FARM RD.

TYPE OF WORK: GRADING, PAVING, WIDENING, DRAINAGE, CULVERTS, SIGNING, STRUCTURES, RETAINING WALL, SIGNALS, & UTILITIES

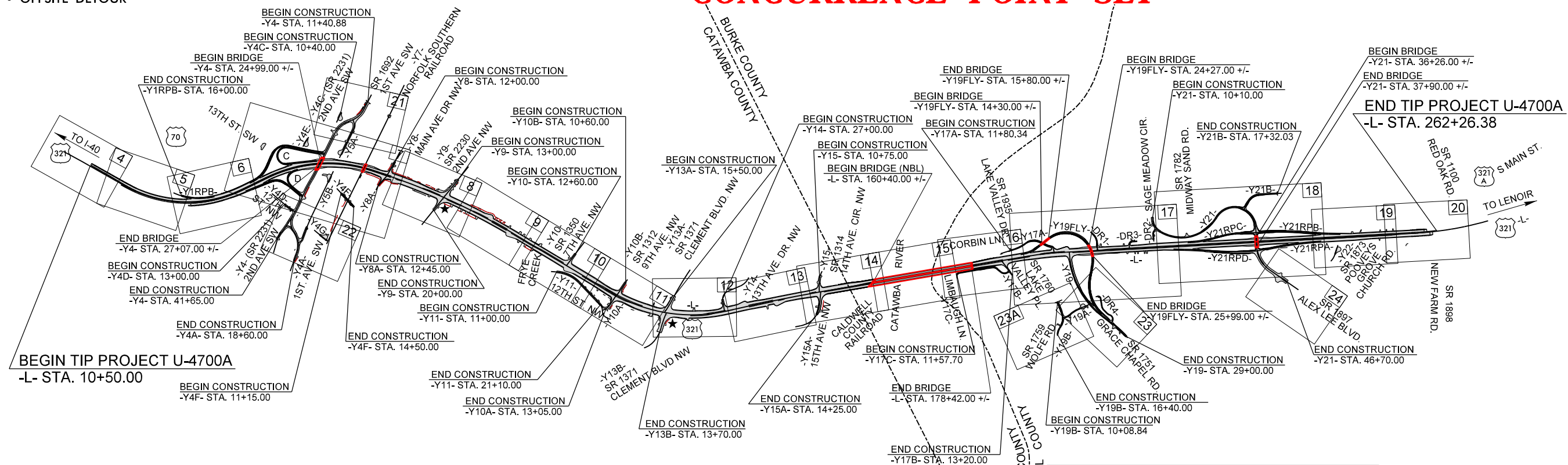
**4B INTERAGENCY
CONCURRENCE POINT SET**

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



VICINITY MAP (NTS)

••• OFFSITE DETOUR

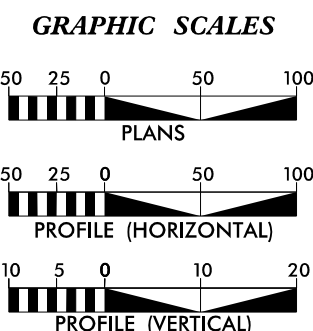


- NOTES:
 1. THIS PROJECT IS PARTIALLY WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF HICKORY.
 2. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD
 3. THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS. ★ TRAFFIC SIGNAL

4B PERMIT PLANS
SUBMITTAL NO.: S-023R1
DATE: 05/29/2019

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

CONTRACT:



DESIGN DATA
 ADT 2021 = 50,135
 ADT 2041 = 57,490
 V = 60 MPH
 DHV = 9%
 D = 60%
 T = 8% *
 (* TTST = 4% /* DUAL = 4%)
 FUNC CLASS = ARTERIAL STATEWIDE TIER
 DESIGN EXCEPTIONS AS NOTED ON PLANS

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4700A..... 4.427 miles
 LENGTH STRUCTURE TIP PROJECT U-4700A..... 0.341 miles (NBL)
 TOTAL LENGTH OF PROJECT U-4700A..... 4.768 miles

PLANS PREPARED BY:

P: (919) 878-9560
 900 Ridgely Drive Suite 350 | Raleigh, North Carolina 27609-3960
 NC License No. F-0112

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FOR NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DATE: June 19, 2019
 LETTING DATE: August 18, 2021

Brandon McInnis, P.E.
PROJECT ENGINEER

Matthew Lamy, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

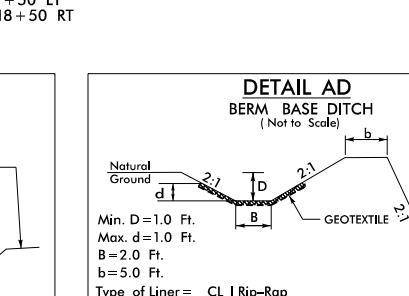
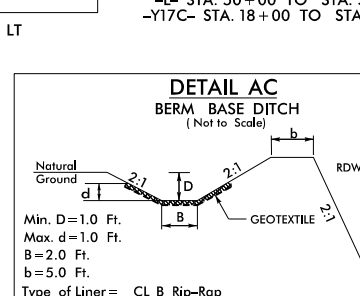
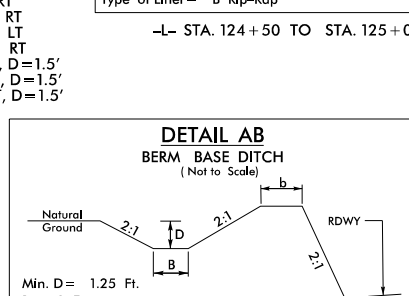
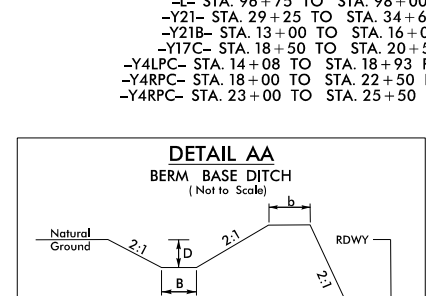
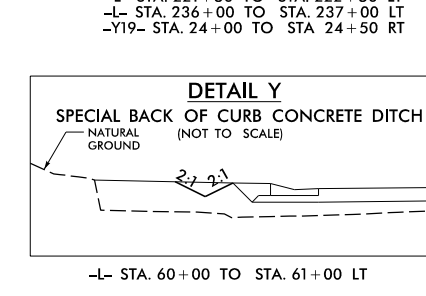
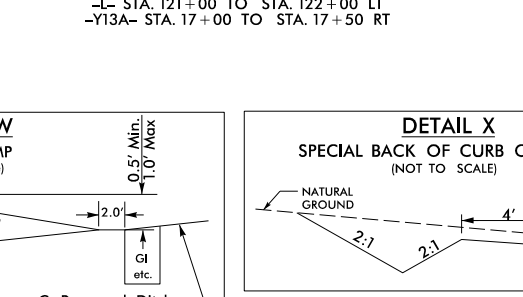
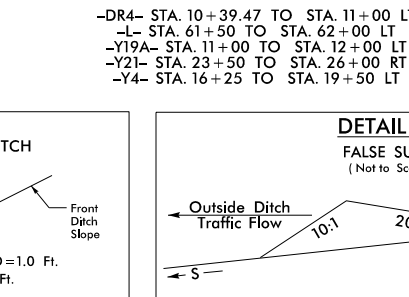
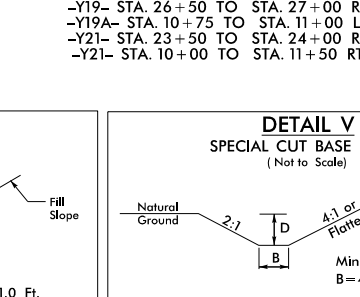
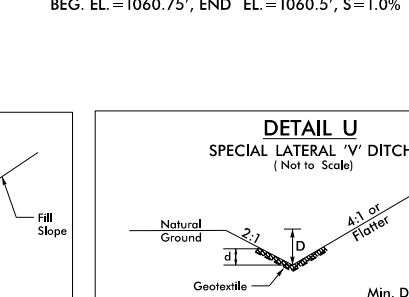
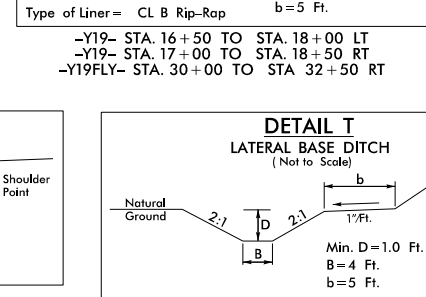
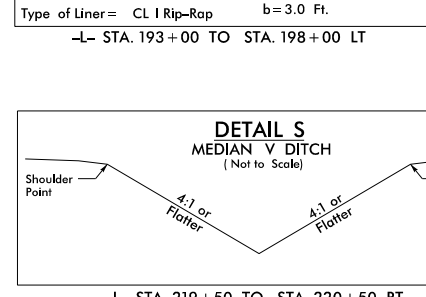
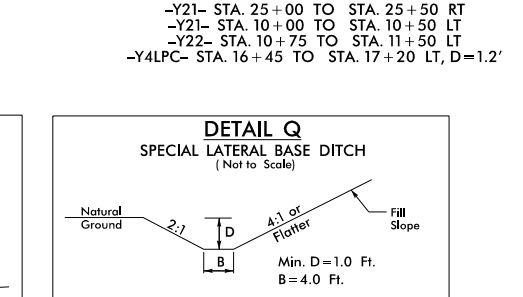
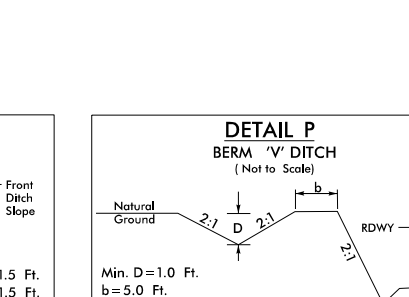
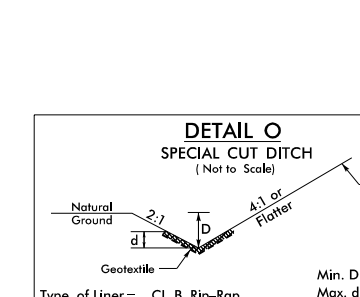
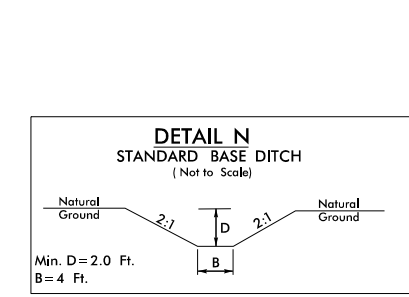
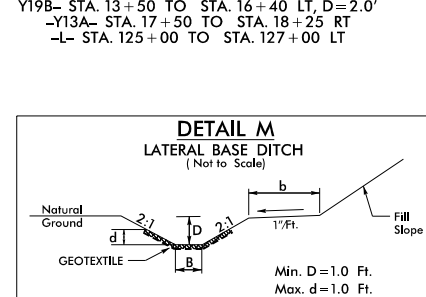
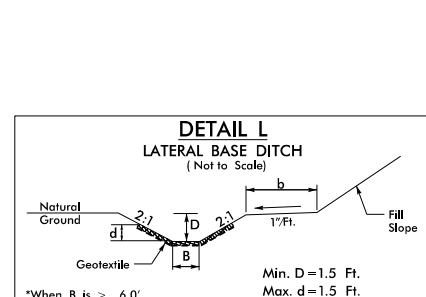
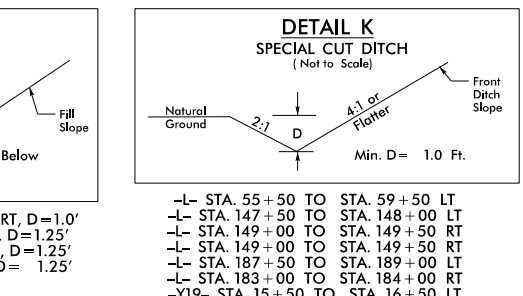
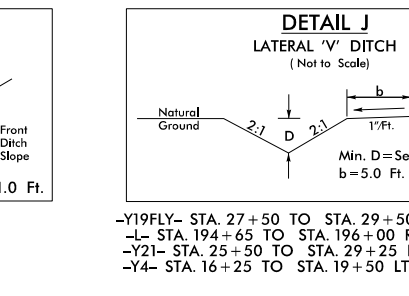
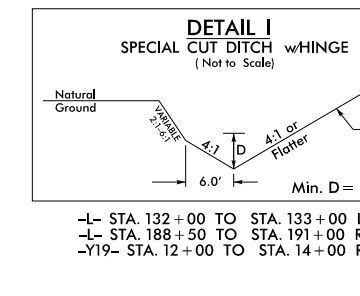
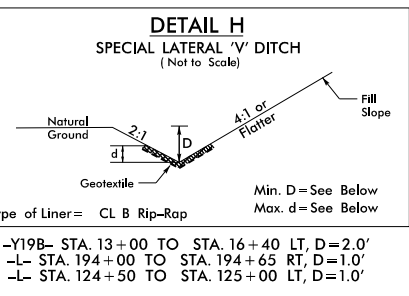
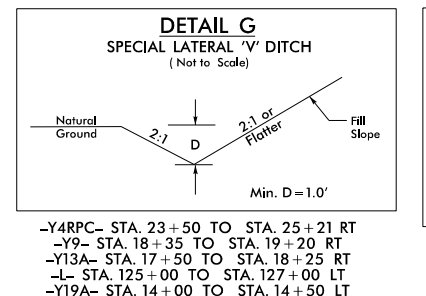
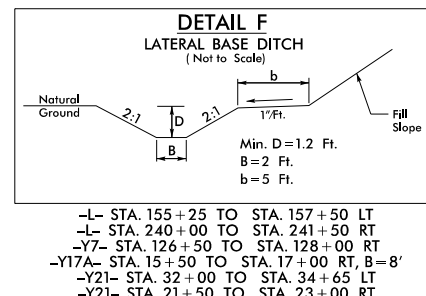
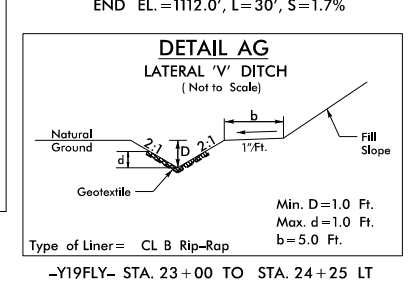
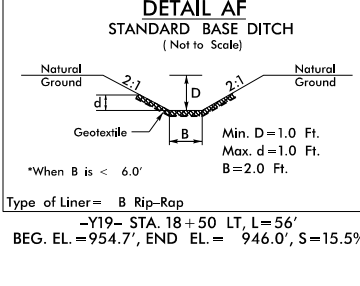
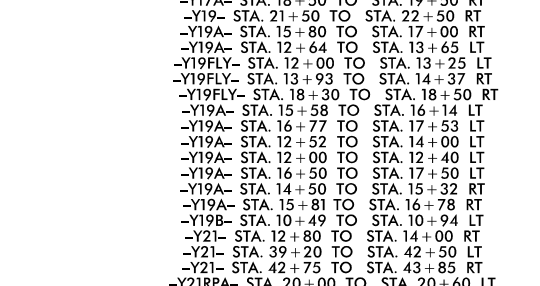
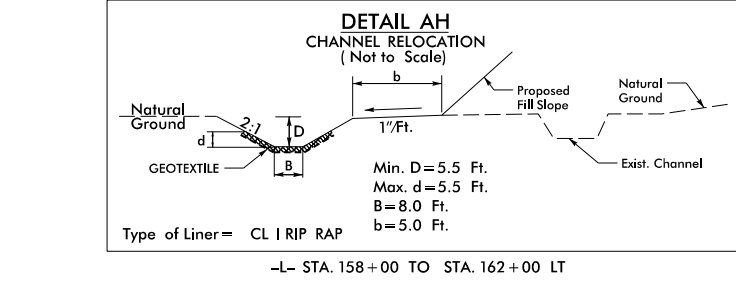
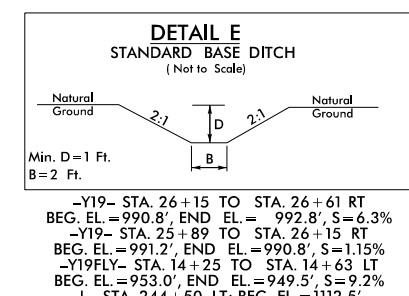
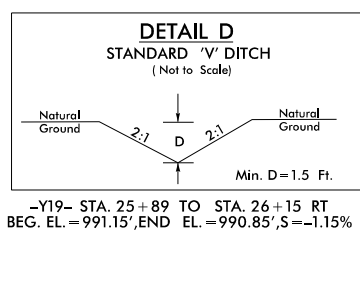
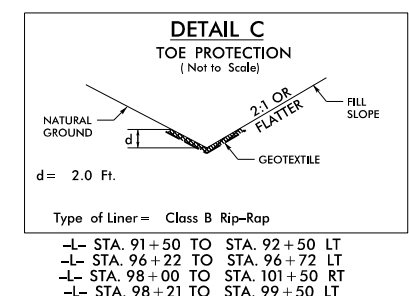
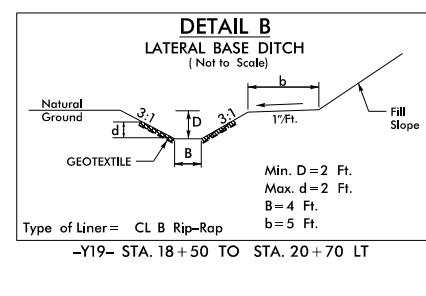
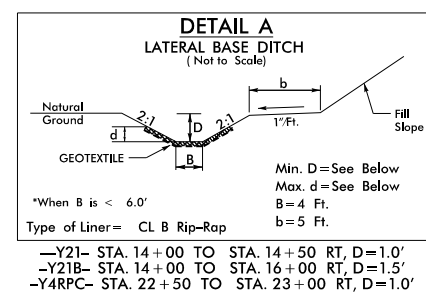
SIGNATURE: _____ P.E.

2018 STANDARD SPECIFICATIONS

NCDOT DIVISION 12

CONTACT: Bryan Sowell, P.E.

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5/29/2019 R:\Hydraulics\CADD\U-4700A-Hyd-Ditch-Details.dgn aburnette

PROJECT REFERENCE NO.	SHEET NO.
U-4700A	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83/2011

BEGIN TIP PROJECT U-4700A
-L- POT STA. 10+50.00

-L- PC Sta. 5+18.69
-L- POT Sta. 5+00.00

-L- PT Sta. 10+22.87

50' BLEND TO EXIST.

720' LANE DROP TAPER

660' MEDIAN WIDTH
TRANSITION 22' TO 11'

N 2° 37' 49.6" W

TIE TO EXIST.
CABLE GUIDERAIL

PROP. CABLE GUIDERAIL

REVISIONS

MATCHLINE -L- STA. 15+00 SEE SHEET 5

FOR -L- PROFILE SEE SHT. 25

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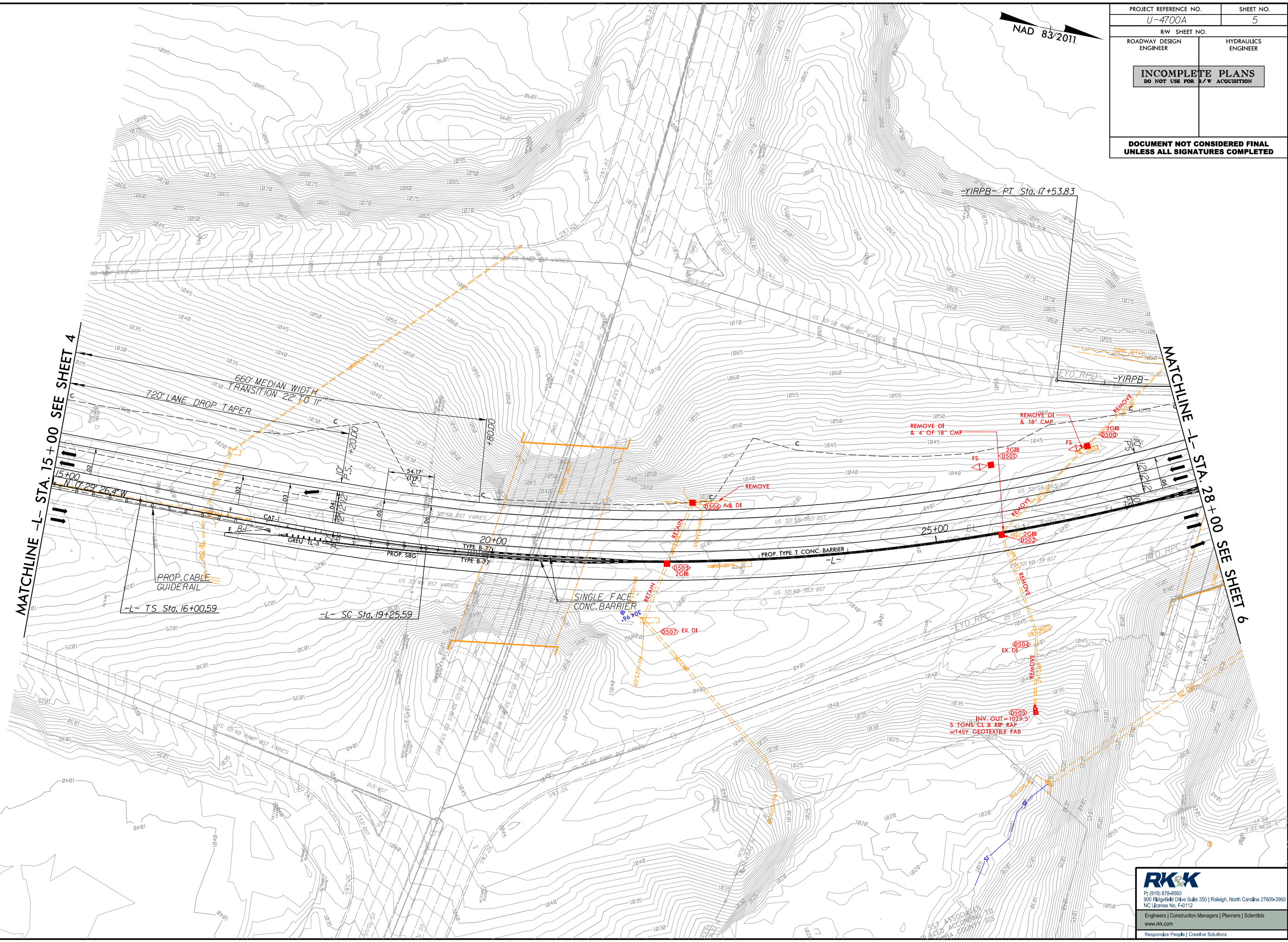
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8/17/99

REVISIONS

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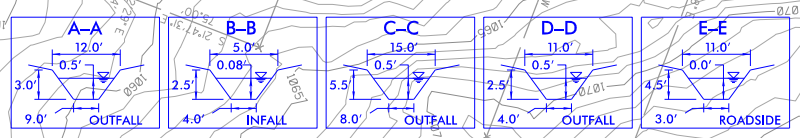
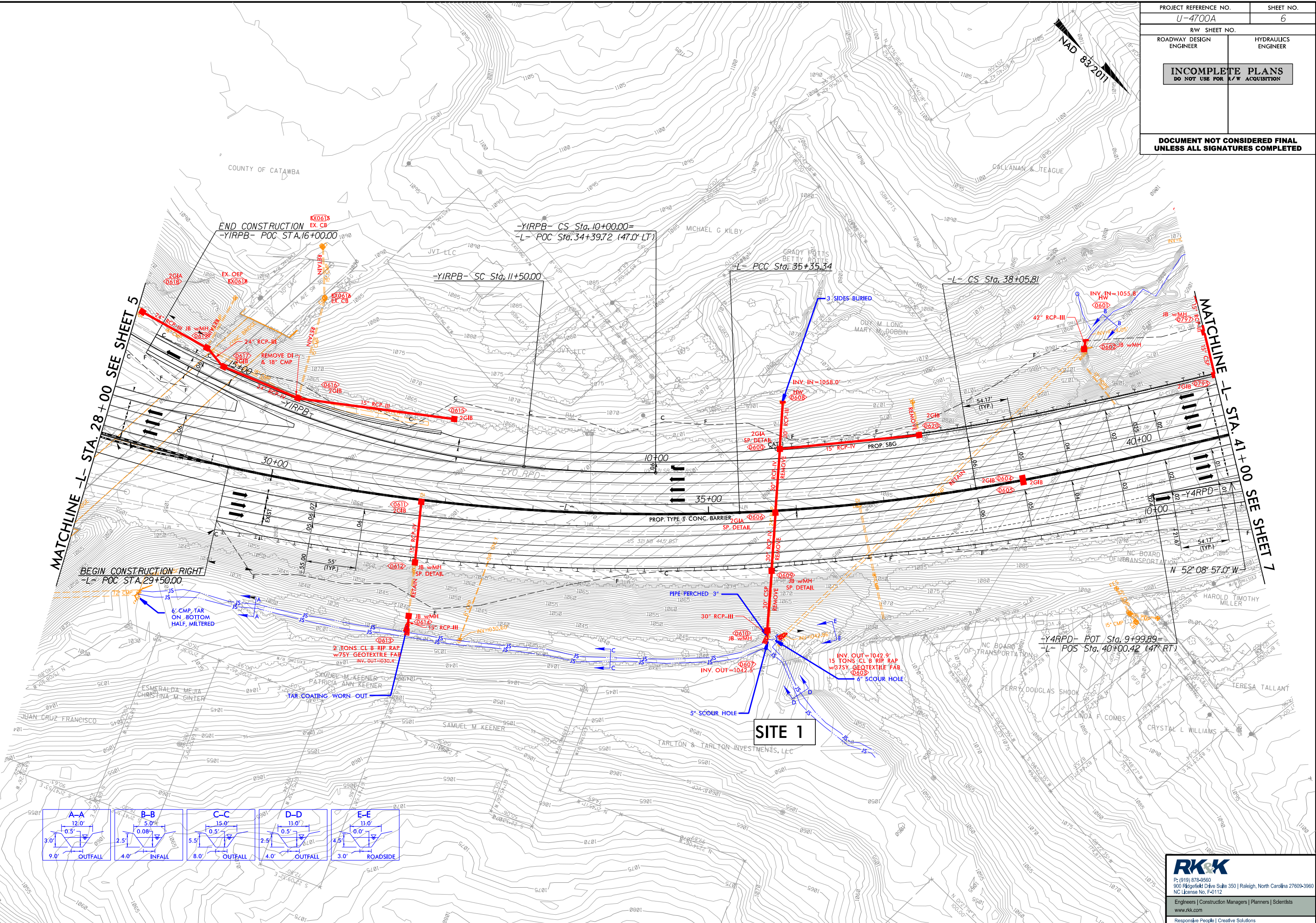
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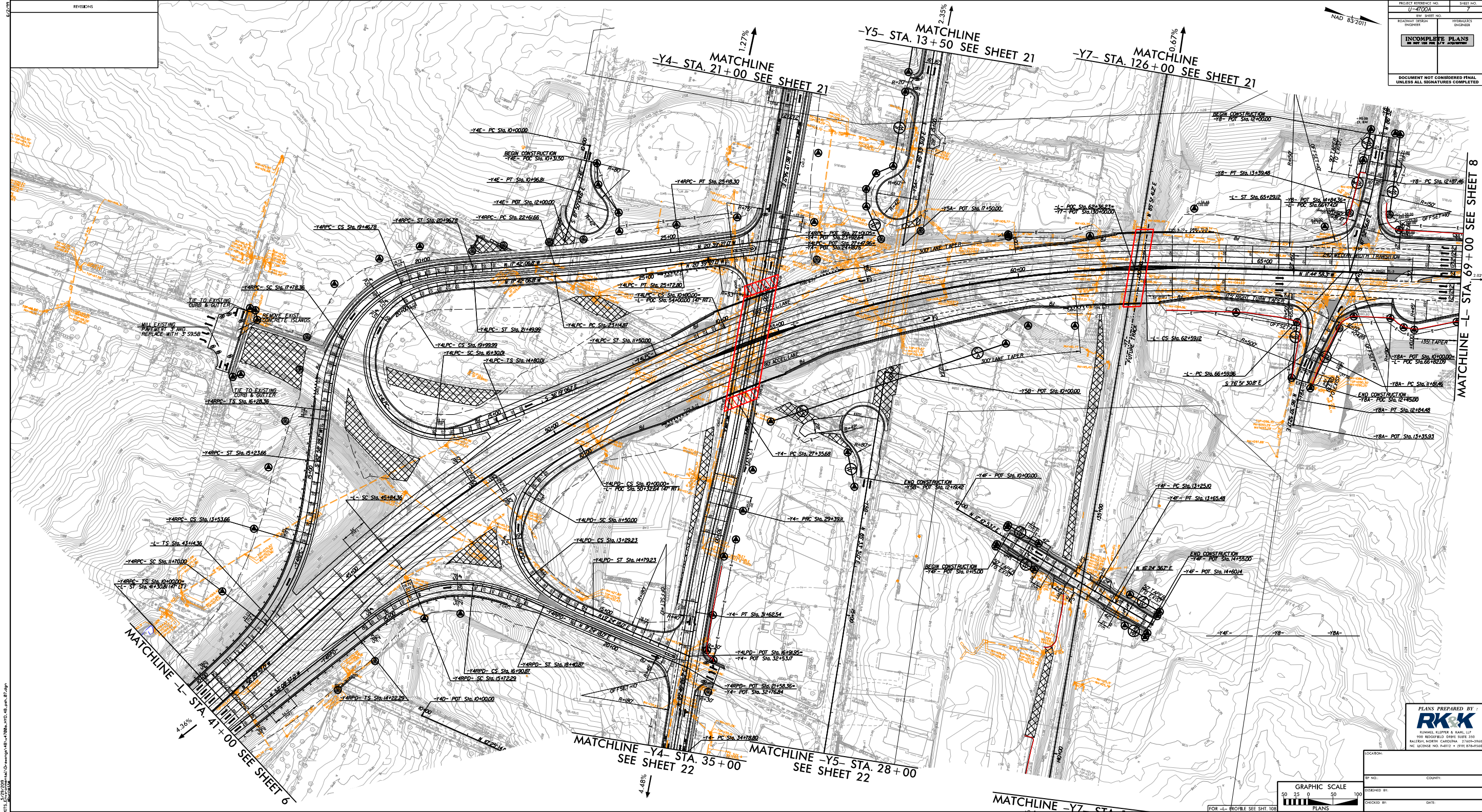
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PROJECT REFERENCE NO. U-4700A	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99
REVISONS
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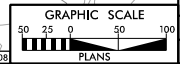


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PROJECT REFERENCE NO. U-4700A	SHEET NO. 7
ROADWAY DESIGN ENGINEER	MECHANICAL ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



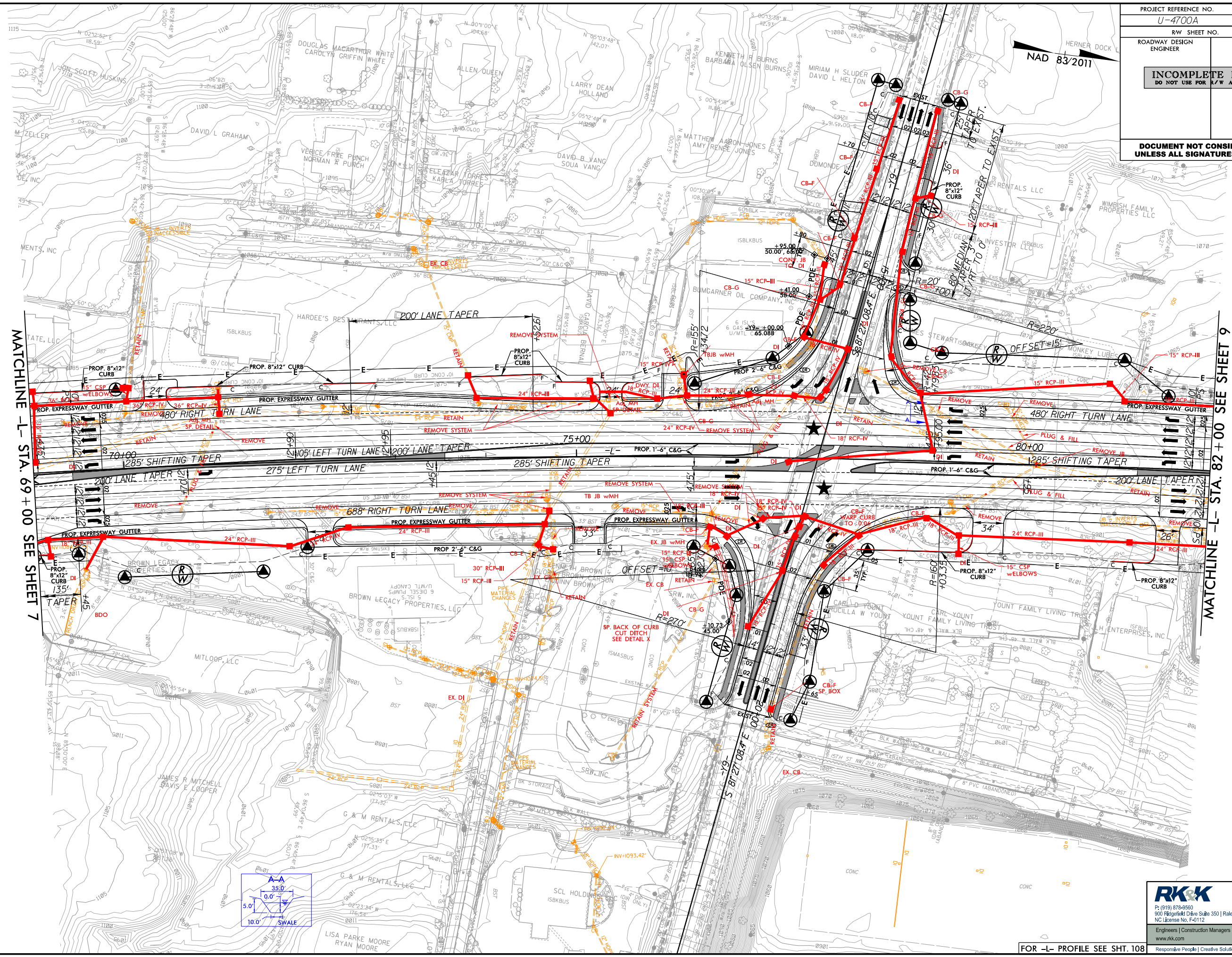
PLANS PREPARED BY:
RK-K
 ENGINEERS & ARCHITECTS
 1000 REDFORD DRIVE SUITE 310
 RALEIGH, NORTH CAROLINA 27609-7940
 NC LICENSE NO. R-4017 • (919) 878-6560

LOCATION:	COUNTY:
DATE:	CHECKED BY:
DATE:	DESIGNED BY:

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RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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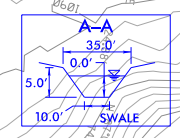
NAD 83/2011



MATCHLINE -L- STA. 69 + 00 SEE SHEET 7

MATCHLINE -L- STA. 82 + 00 SEE SHEET 9

REVISIONS



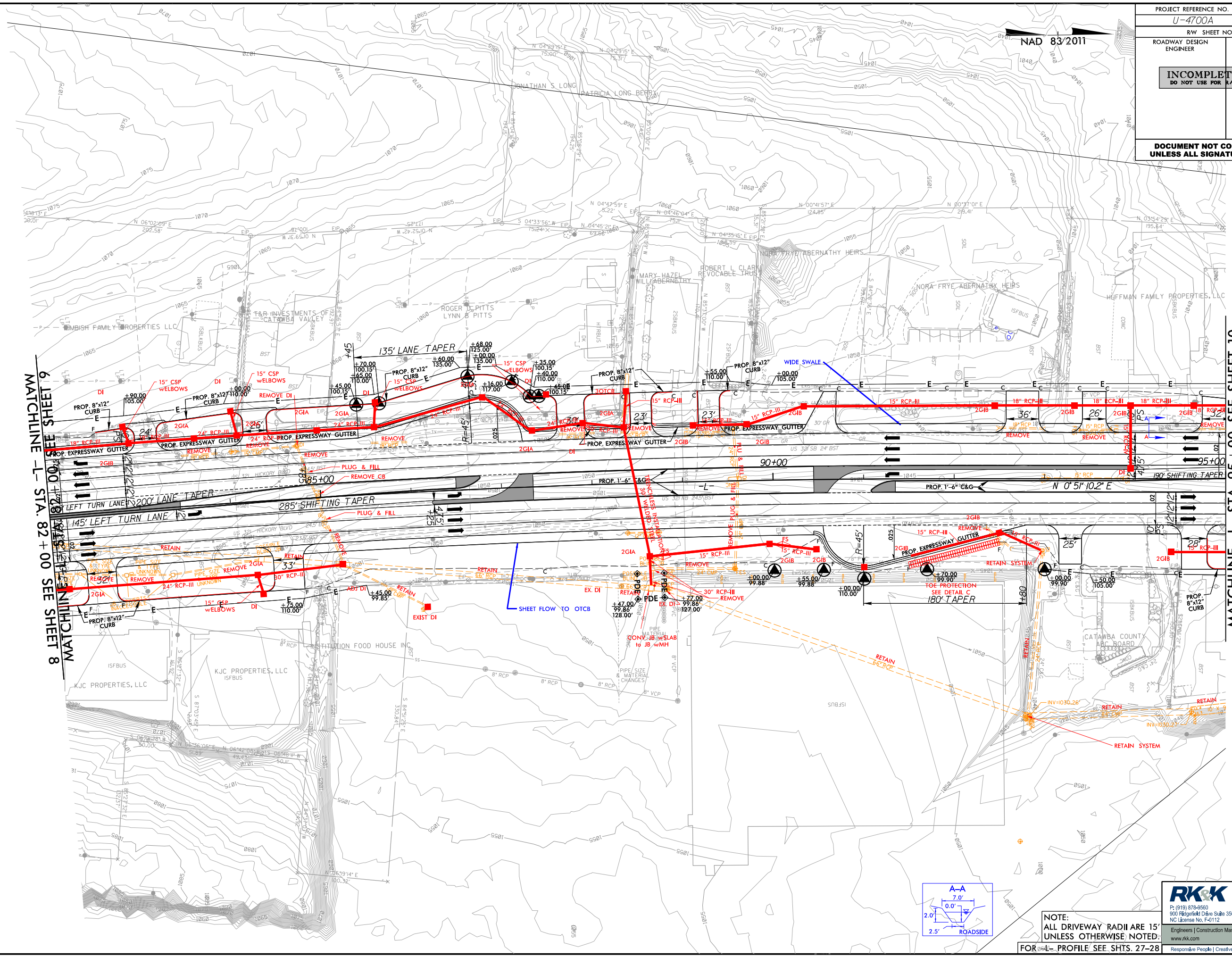
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FOR -L- PROFILE SEE SHT. 108

8/17/99
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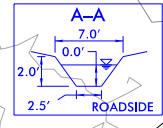
NAD 83/2011



REVISIONS

MATCHLINE -L- STA. 82+00 SEE SHEET 8

MATCHLINE -L- STA. 95+00 SEE SHEET 10



NOTE:
ALL DRIVEWAY RADII ARE 15'
UNLESS OTHERWISE NOTED.

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FOR PROFILE SEE SHTS. 27-28

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RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
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NAD 83/2011

SITE 2

FRYE CREEK

FRYE CREEK

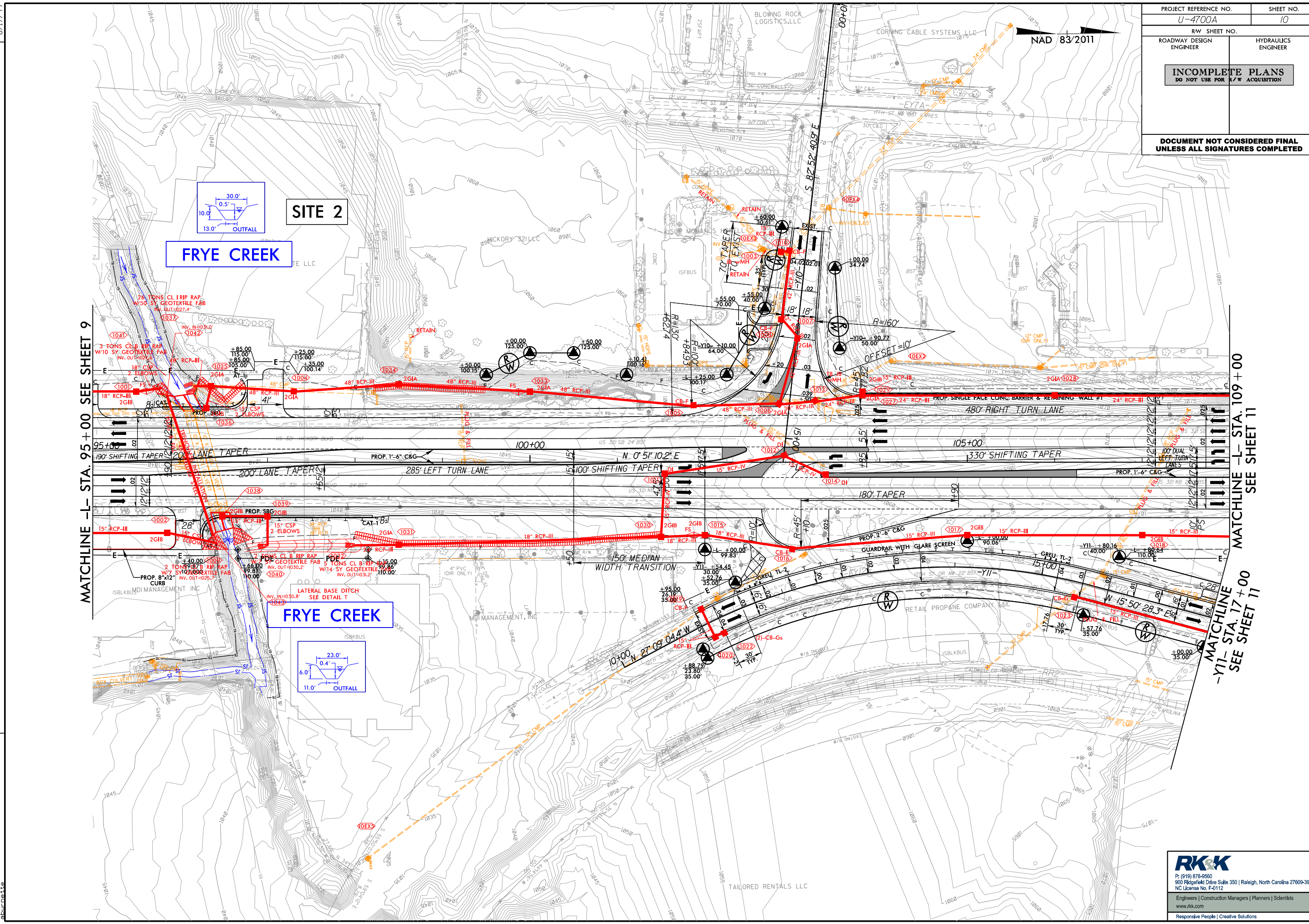
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MATCHLINE -L- STA. 109 + 00
SEE SHEET 11

MATCHLINE -L- STA. 17 + 00
SEE SHEET 11

REVISIONS

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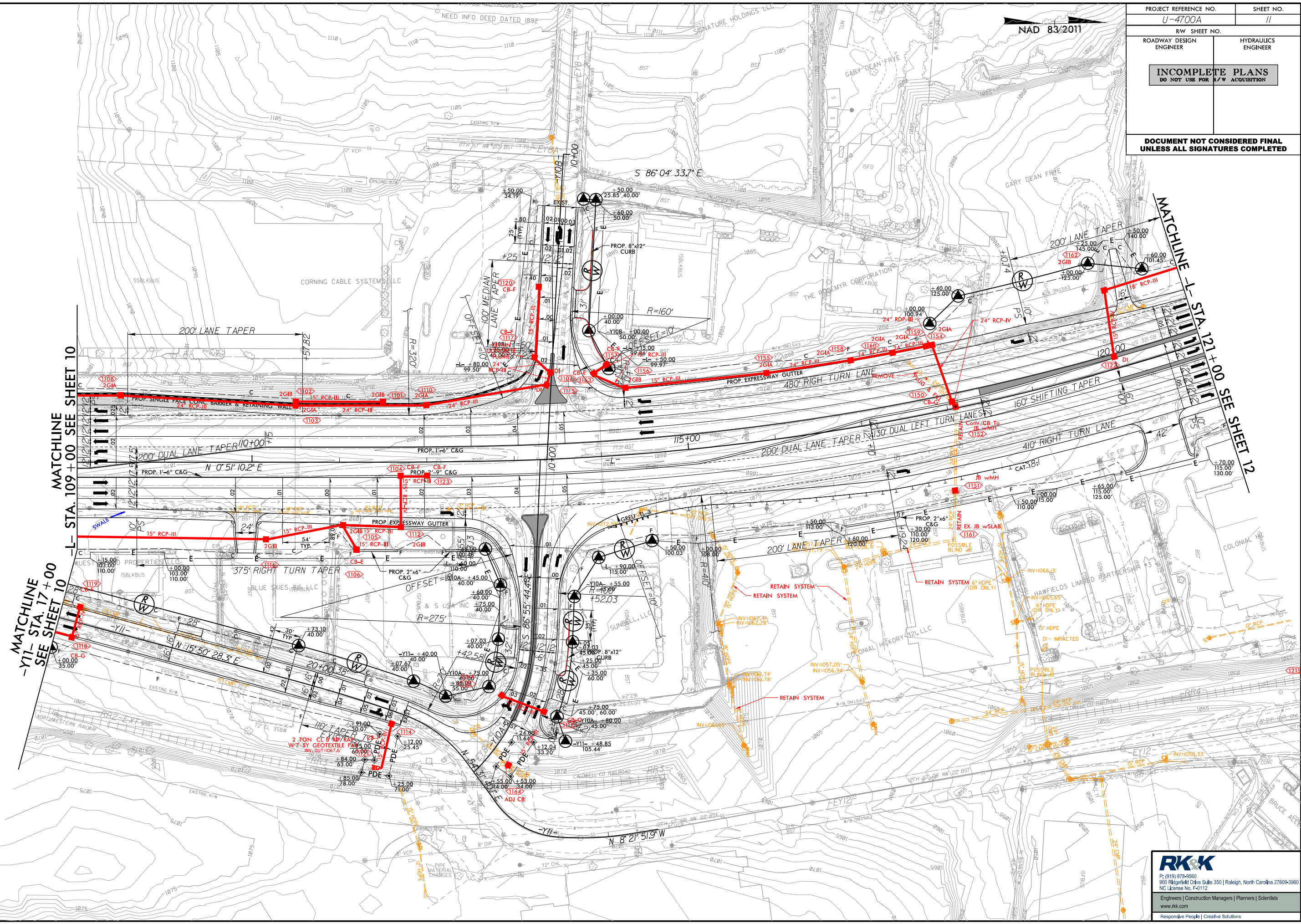


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PROJECT REFERENCE NO. U-4700A		SHEET NO. 11	
RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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NAD 83/2011

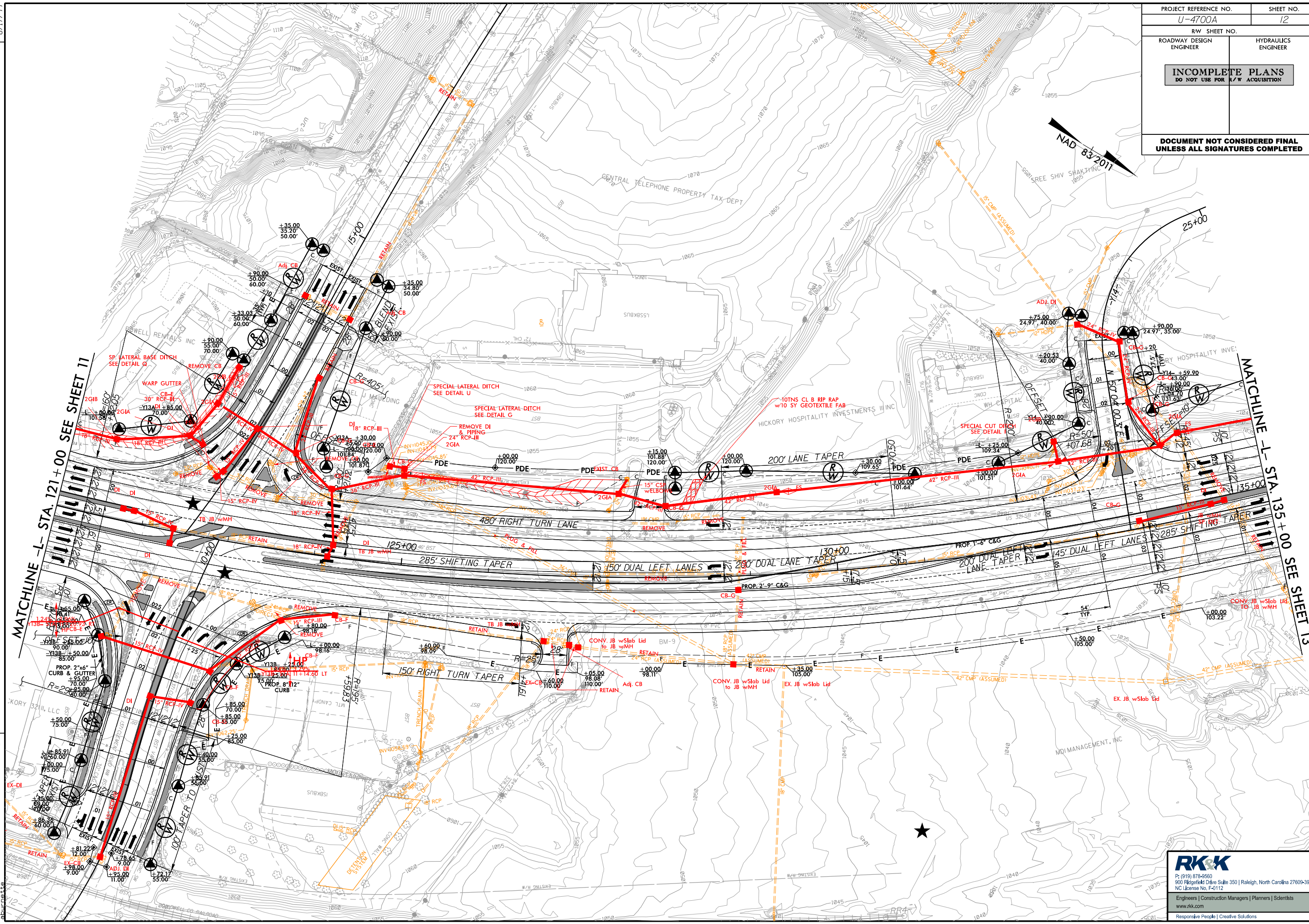
REVISIONS



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 8/29/2019 10:54:11 AM

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PROJECT REFERENCE NO. U-4700A	SHEET NO. 12
Roadway Design ENGINEER	Hydraulics ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

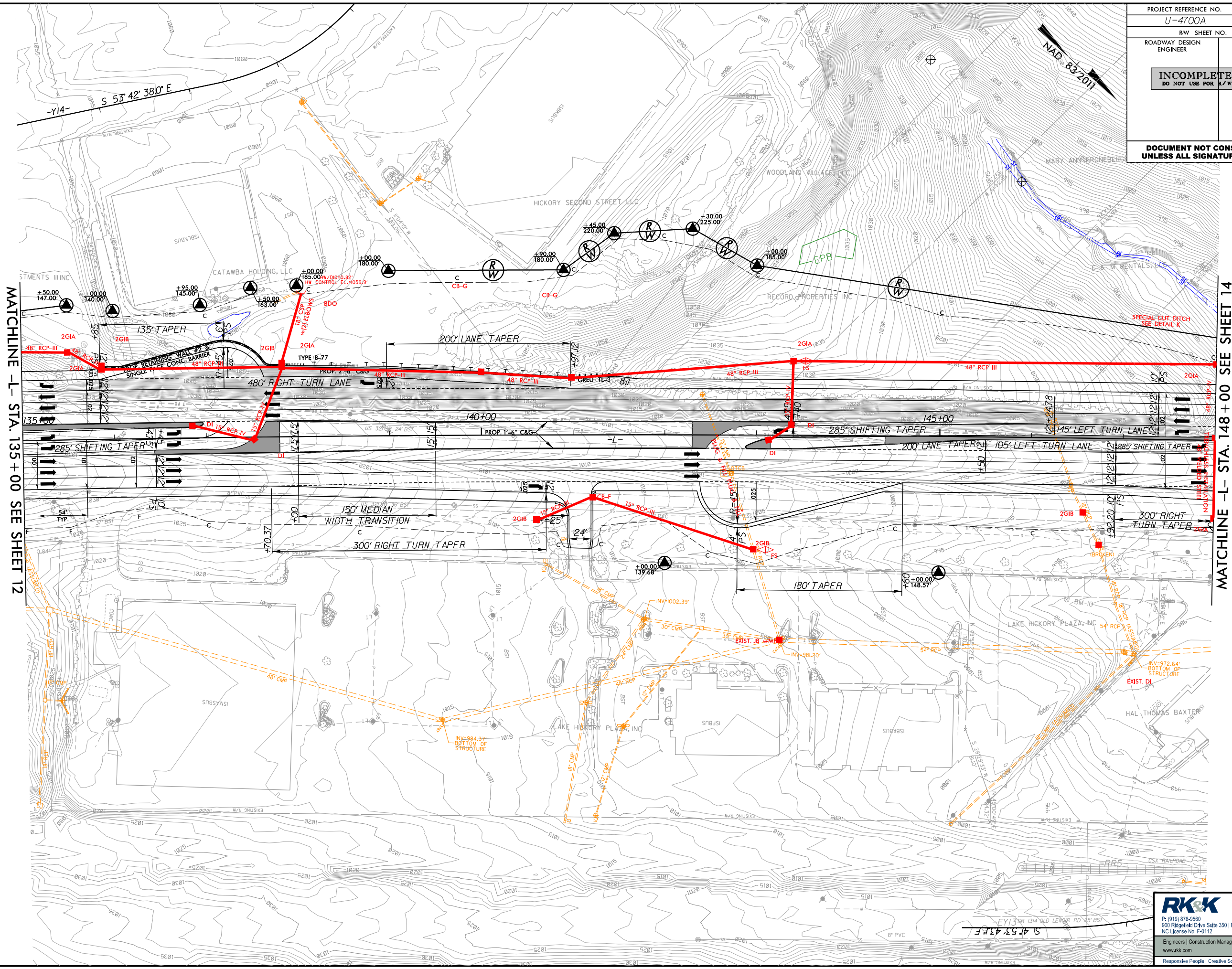


REVISIONS

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PROJECT REFERENCE NO. U-4700A	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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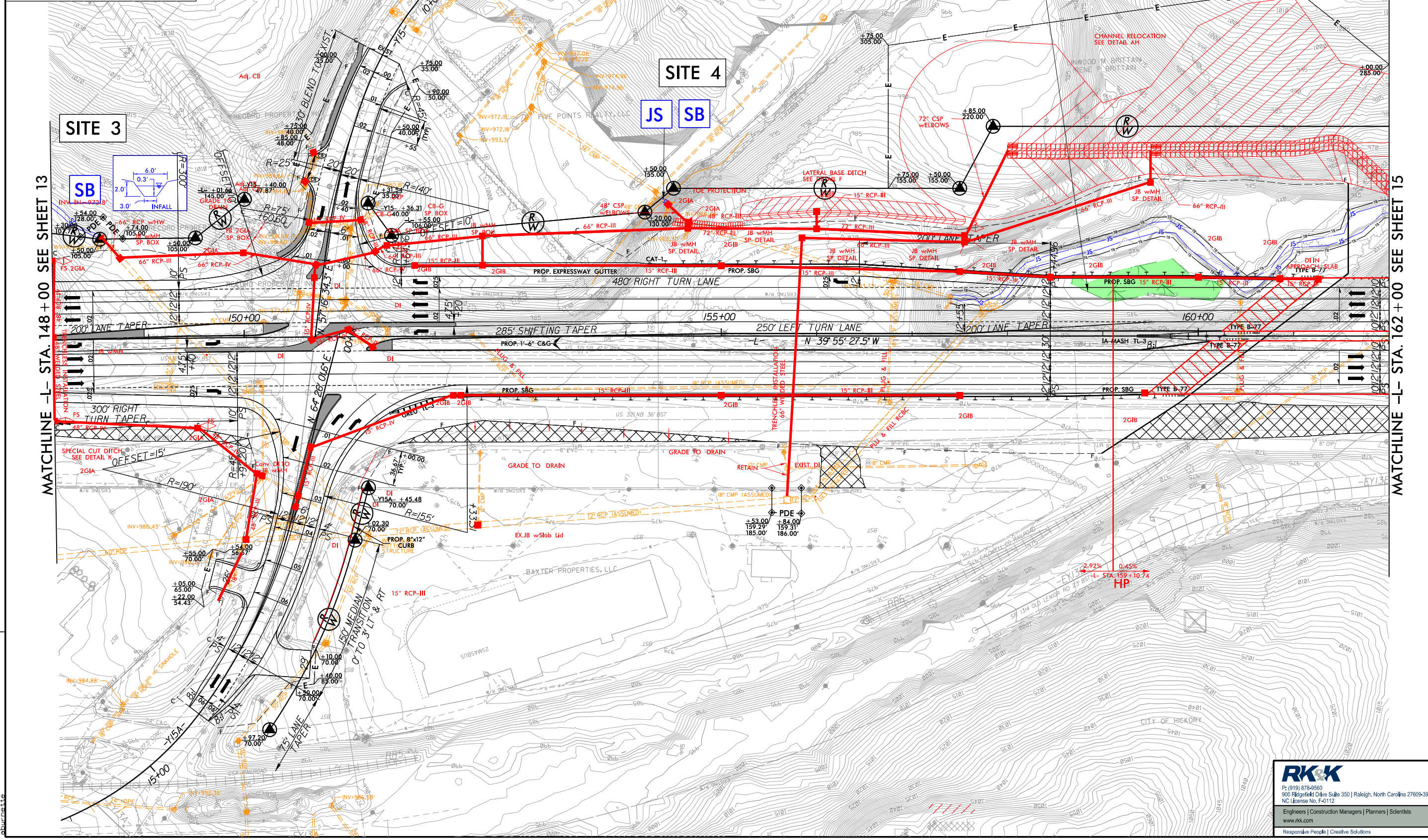
MATCHLINE -L- STA. 148 + 00 SEE SHEET 14

REVISIONS

8/17/99
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PROJECT REFERENCE NO. U-4700A	SHEET NO. 14
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



8.17.19

REVISIONS

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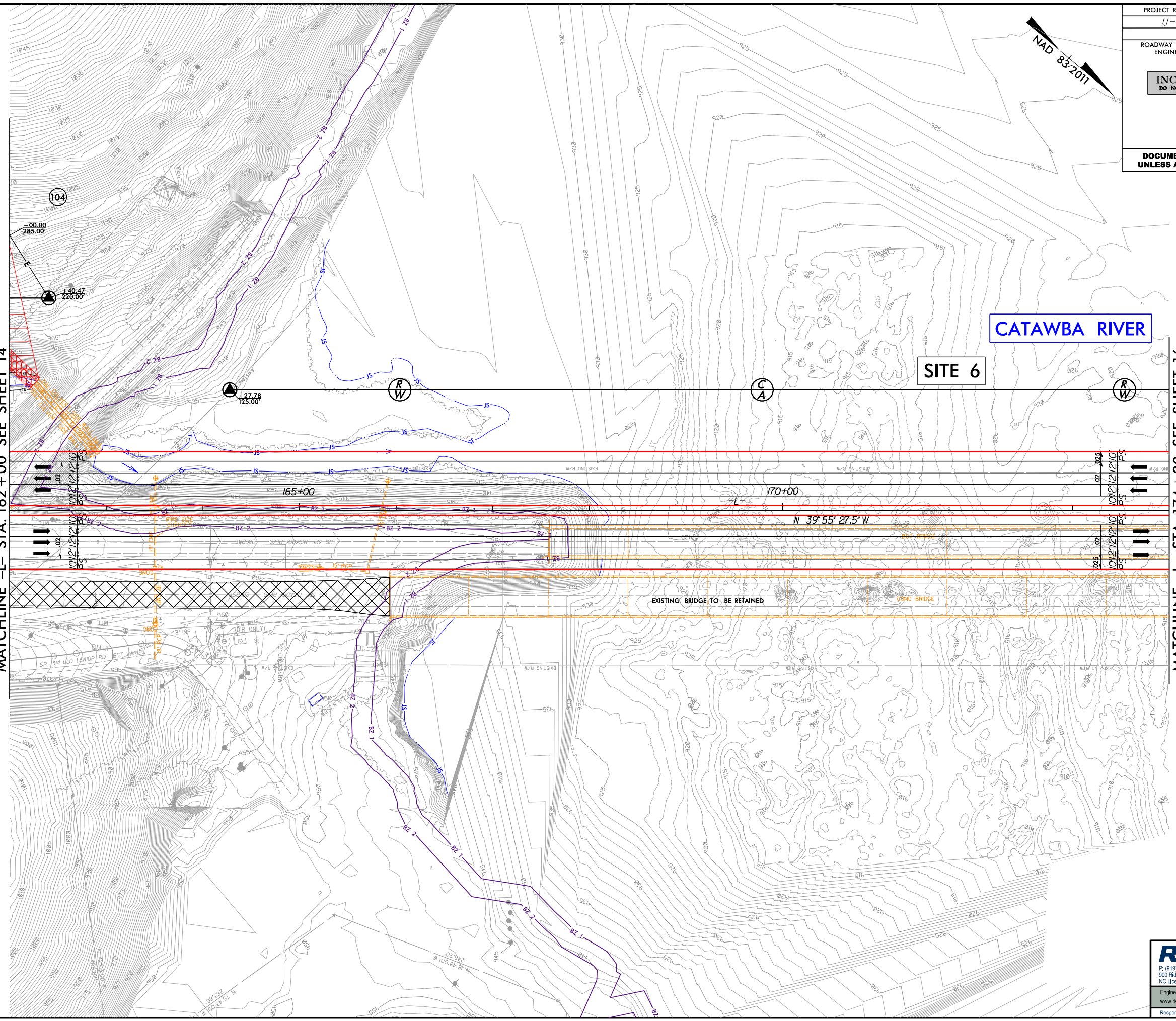
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PROJECT REFERENCE NO. U-4700A	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



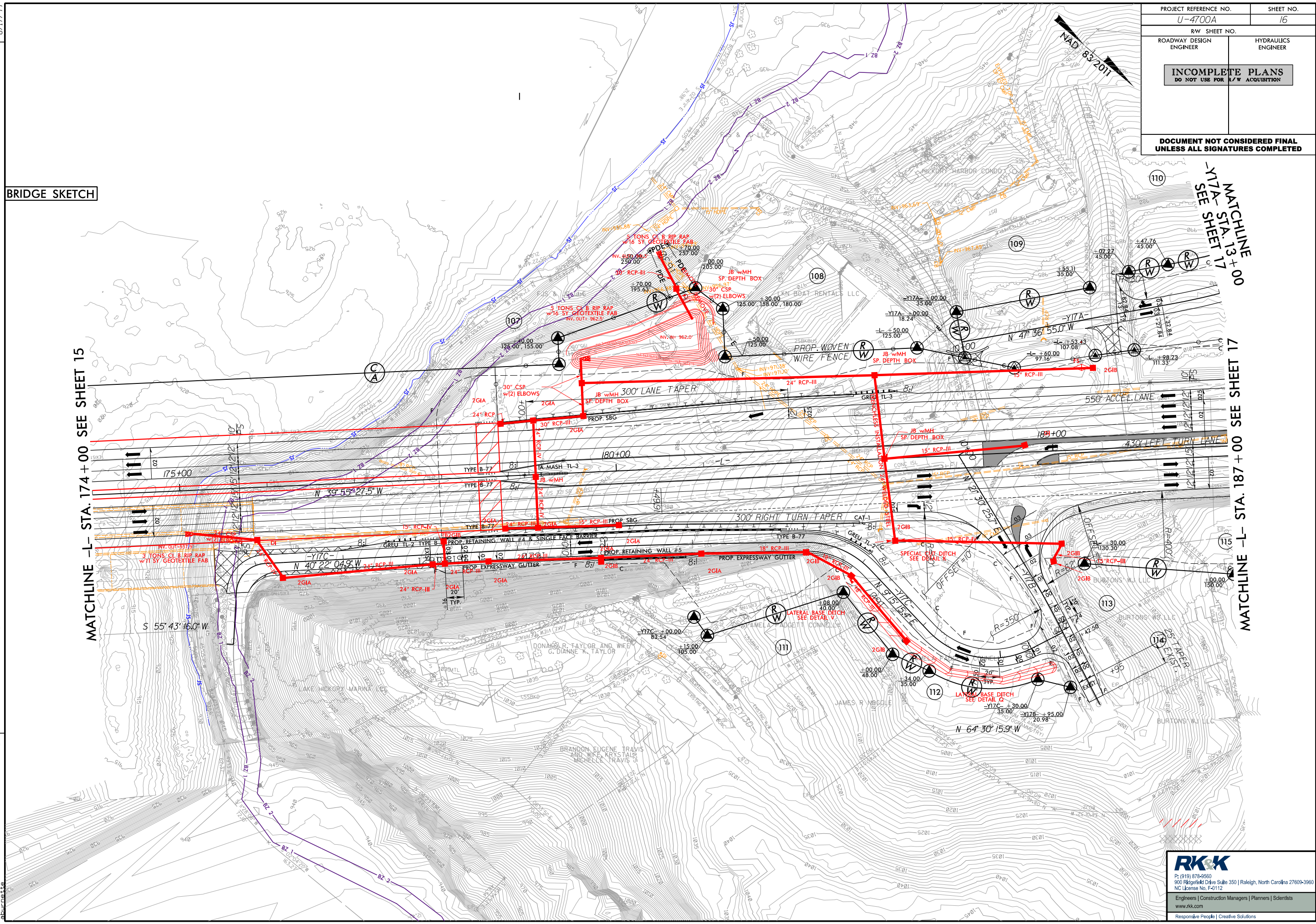
REVISIONS

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PROJECT REFERENCE NO. U-4700A	SHEET NO. 16
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BRIDGE SKETCH



MATCHLINE -L- STA. 174+00 SEE SHEET 15

MATCHLINE -L- STA. 187+00 SEE SHEET 17

MATCHLINE -L- STA. 187+00 SEE SHEET 17

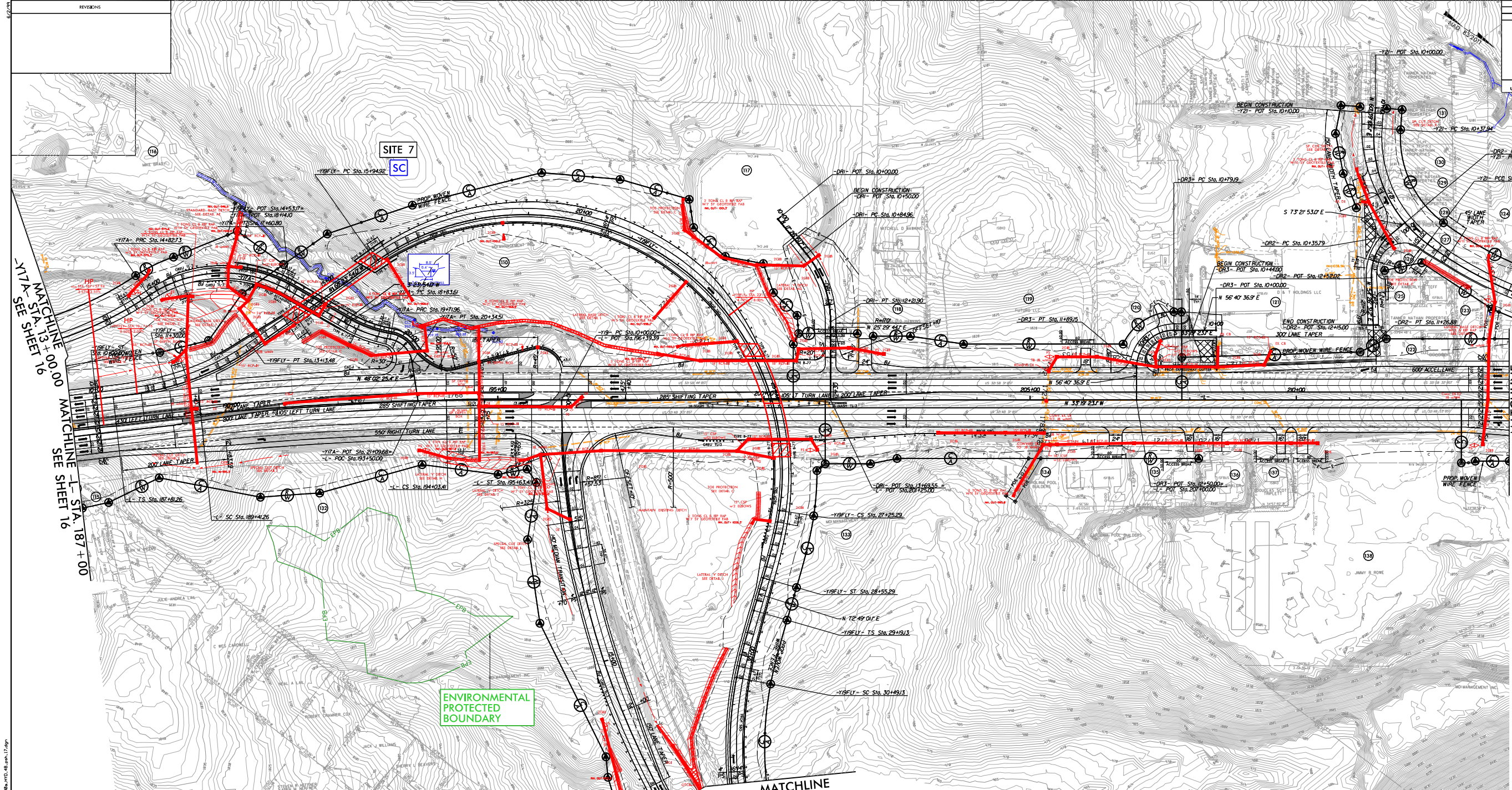
REVISIONS

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NO.	REVISIONS

PROJECT REFERENCE NO. U-4700A	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ANY CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

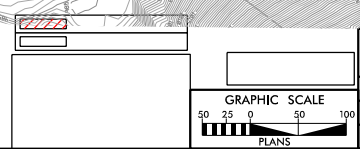


BRIDGE SKETCH

MATCHLINE
-Y19- STA. 18+00
SEE SHEET 23

MATCHLINE
-Y19FLY- STA. 32+50
SEE SHEET 23

BRIDGE SKETCH



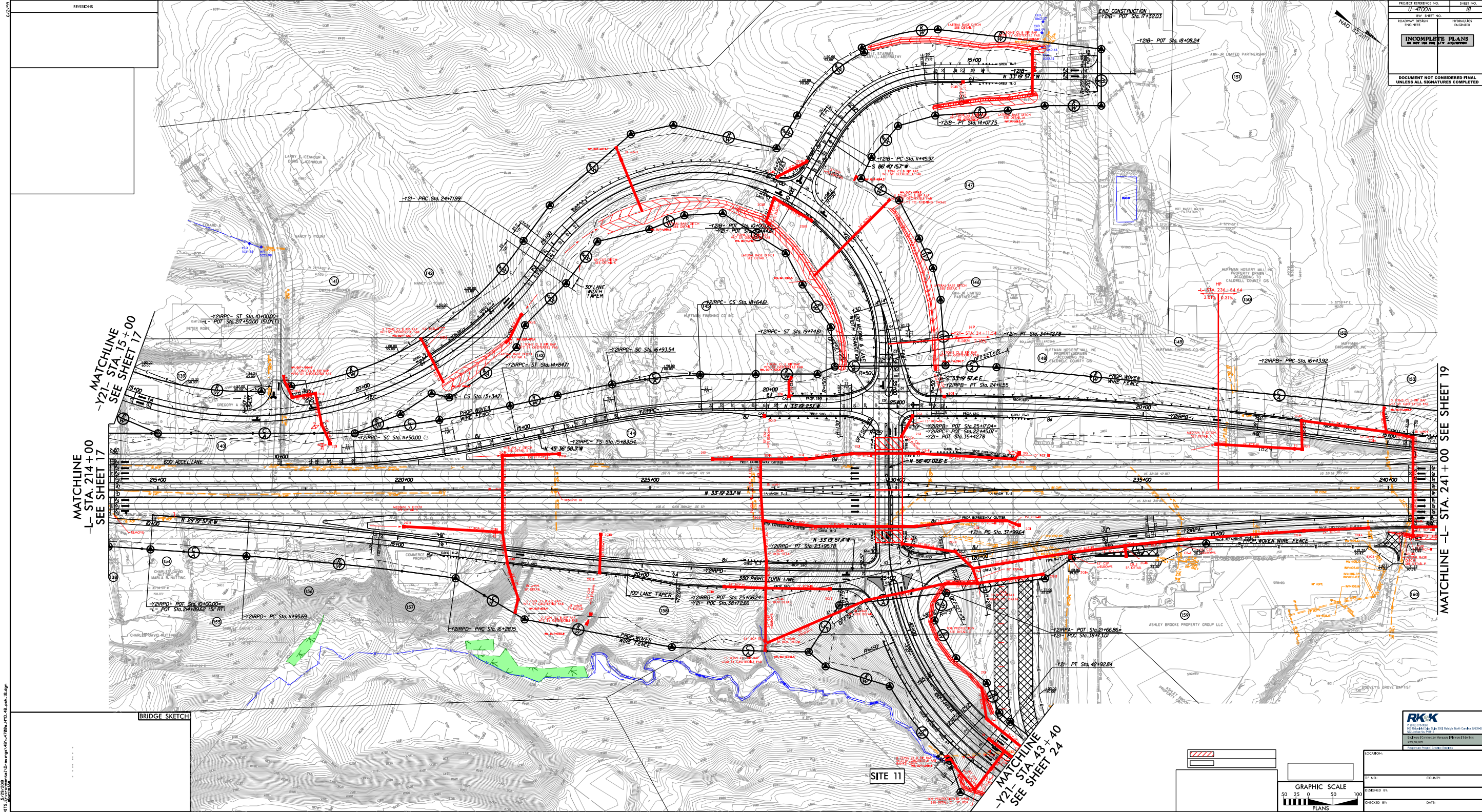
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TR. NO.:	COUNTY:
DESIGNED BY:	
CHECKED BY:	DATE:



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NO.	REVISIONS

PROJECT REFERENCE NO. U-4004	SHEET NO. 18
ROADWAY DESIGN ENGINEER	PROFESSIONAL ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



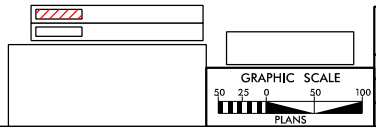
MATCHLINE
-L- STA. 214 +00
SEE SHEET 17

MATCHLINE -L- STA. 241 +00 SEE SHEET 19

BRIDGE SKETCH

SITE 11

MATCHLINE
-Y2L- STA 43 +40
SEE SHEET 24

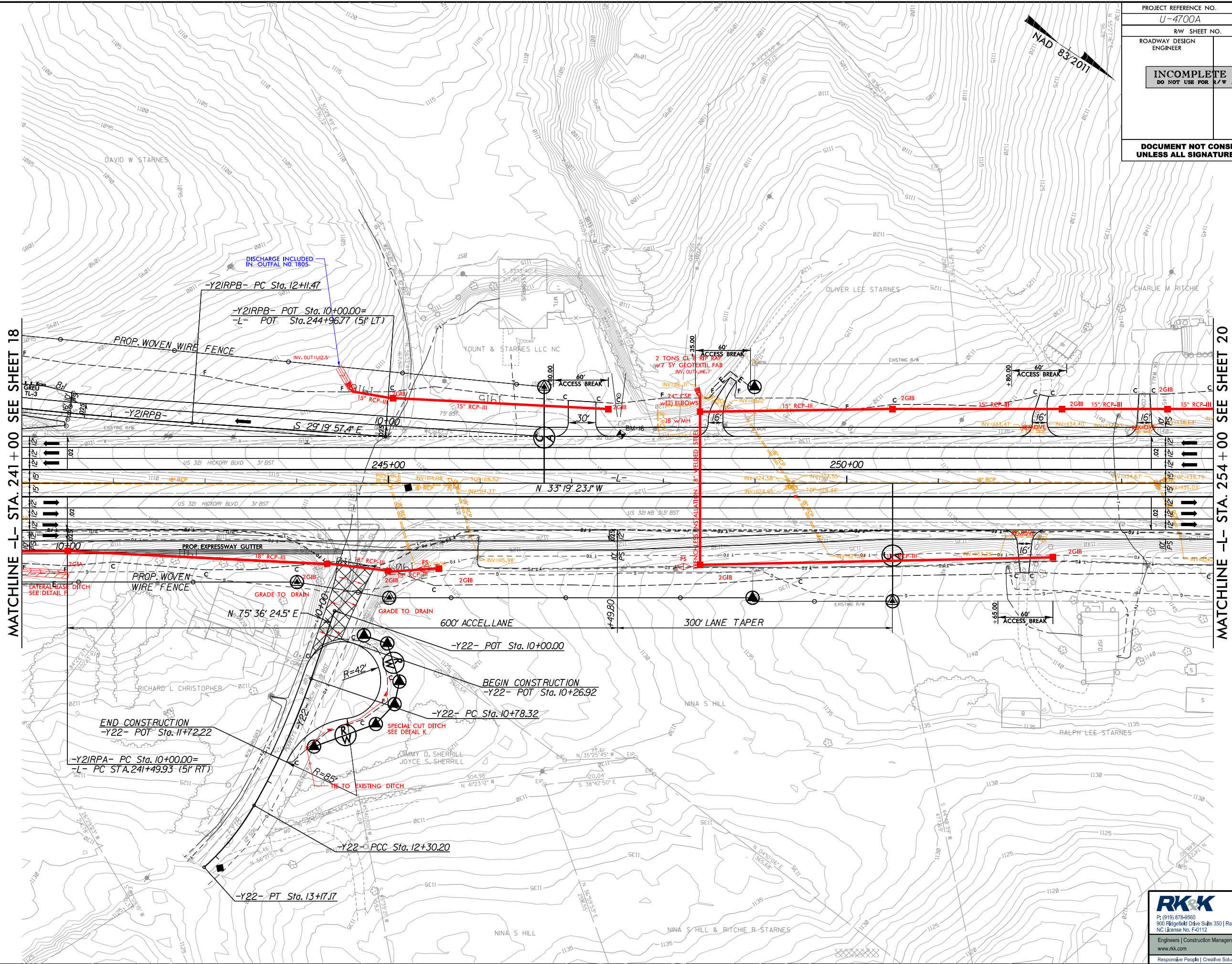


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TRIP NO.:	COUNTY:
DESIGNED BY:	CHECKED BY:
DATE:	



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PROJECT REFERENCE NO. U-4700A		SHEET NO. 19	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



MATCHLINE -L- STA. 241+00 SEE SHEET 18

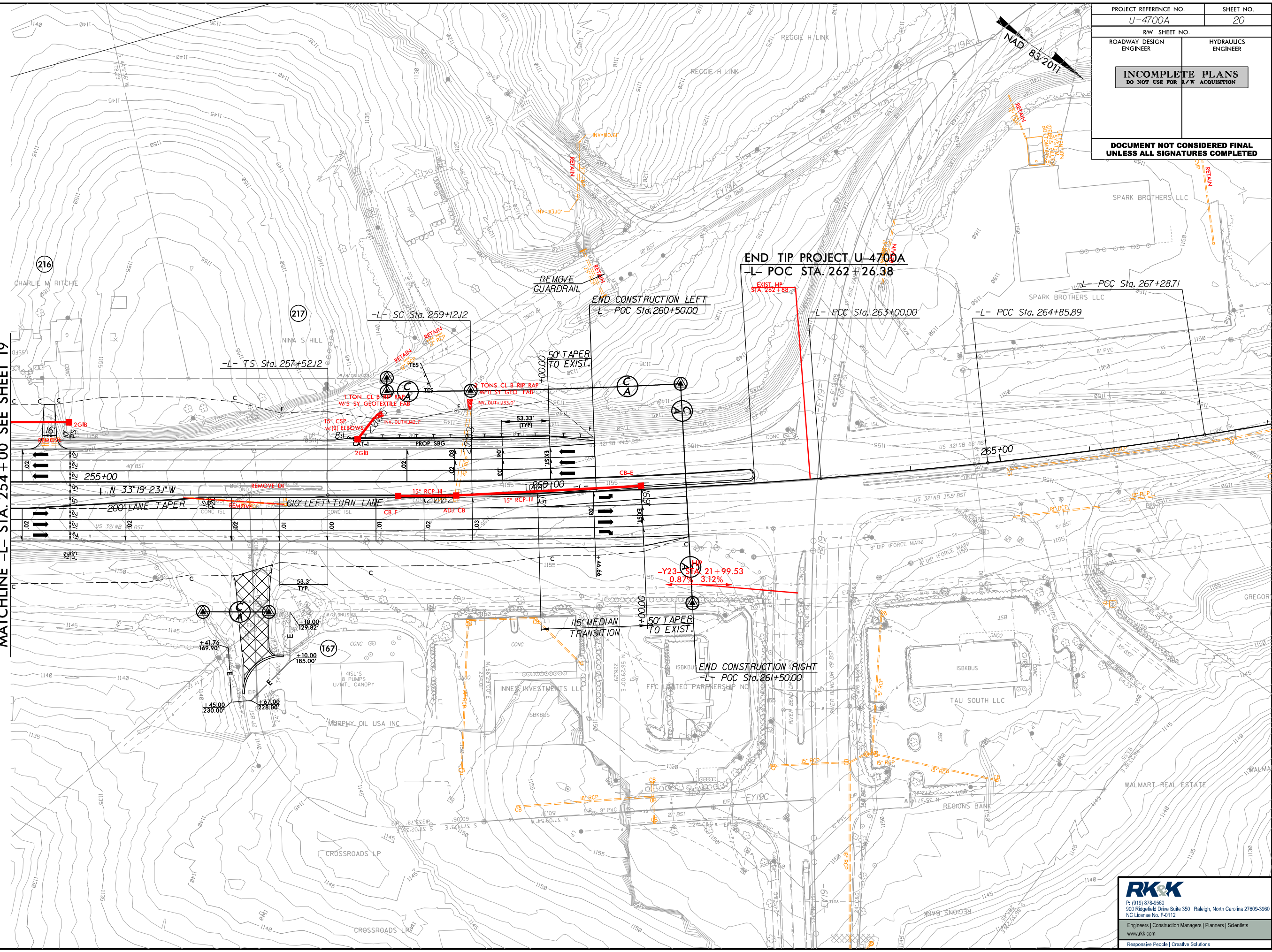
MATCHLINE -L- STA. 254+00 SEE SHEET 20

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PROJECT REFERENCE NO. U-4700A		SHEET NO. 20	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

MATCHLINE -L- STA. 254+00 SEE SHEET 19



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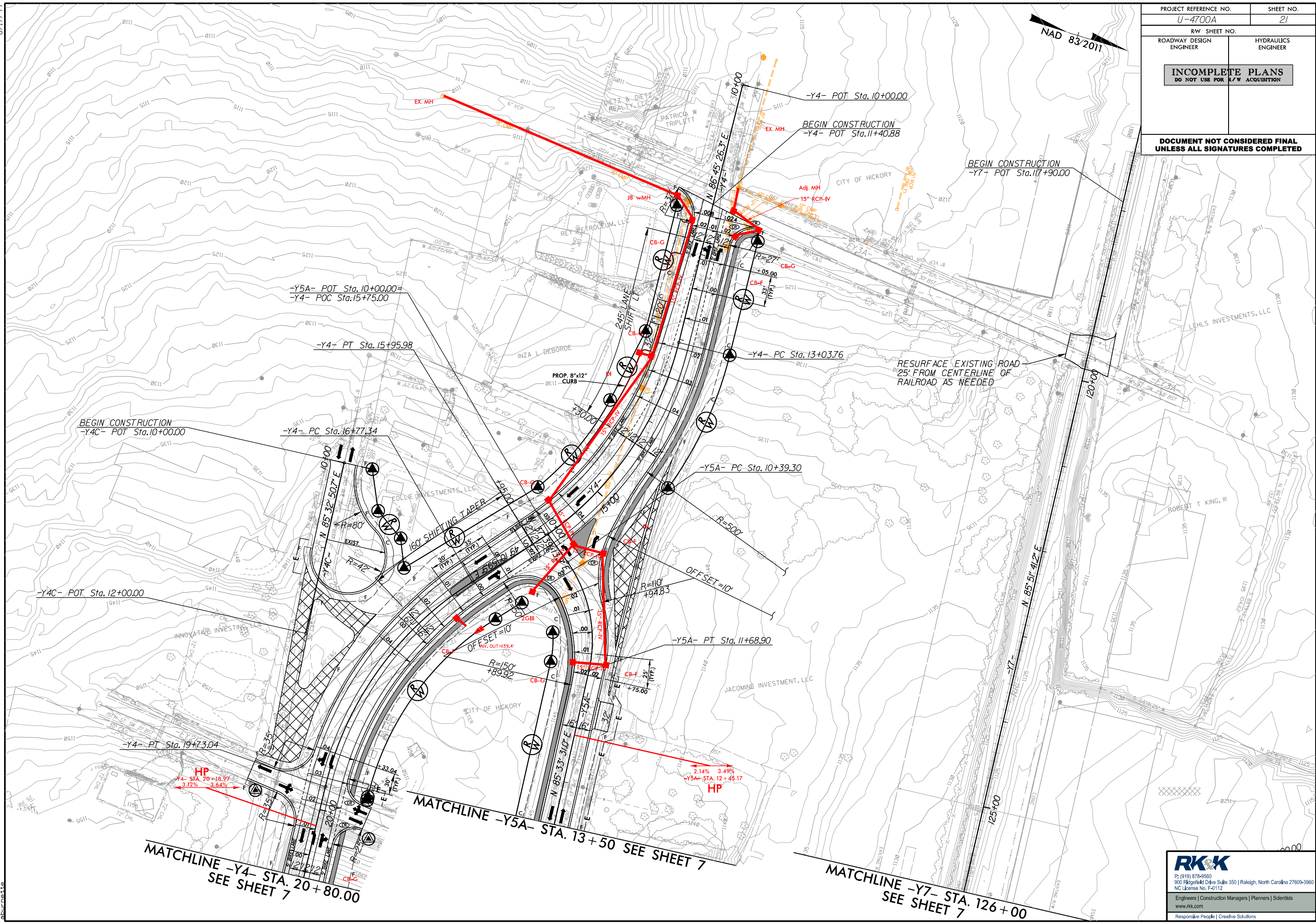
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PROJECT REFERENCE NO. U-4700A	SHEET NO. 21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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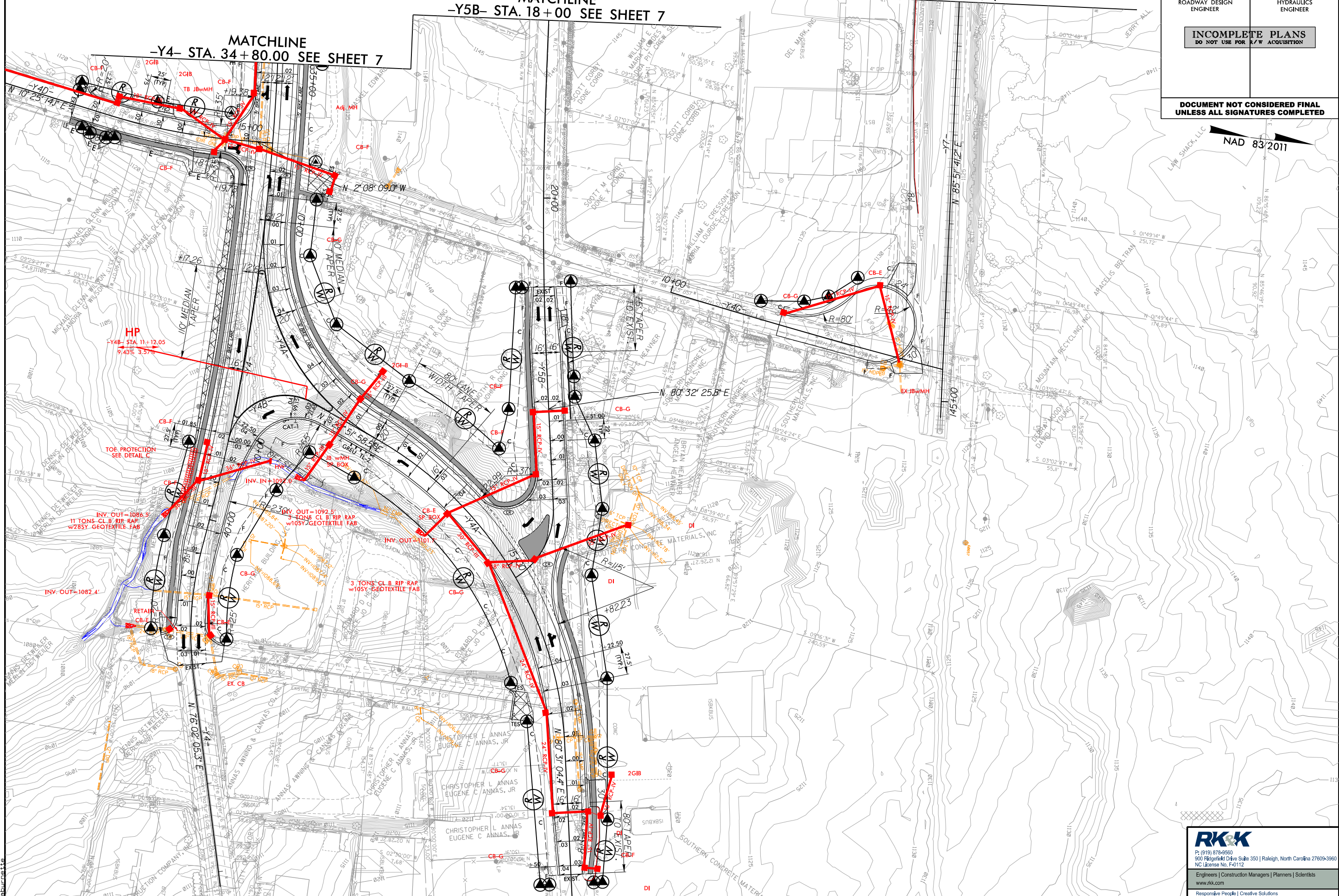
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MATCHLINE -Y7- STA. 140+50 SEE SHEET 7

MATCHLINE -Y4- STA. 34+80.00 SEE SHEET 7

PROJECT REFERENCE NO. U-4700A	SHEET NO. 22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

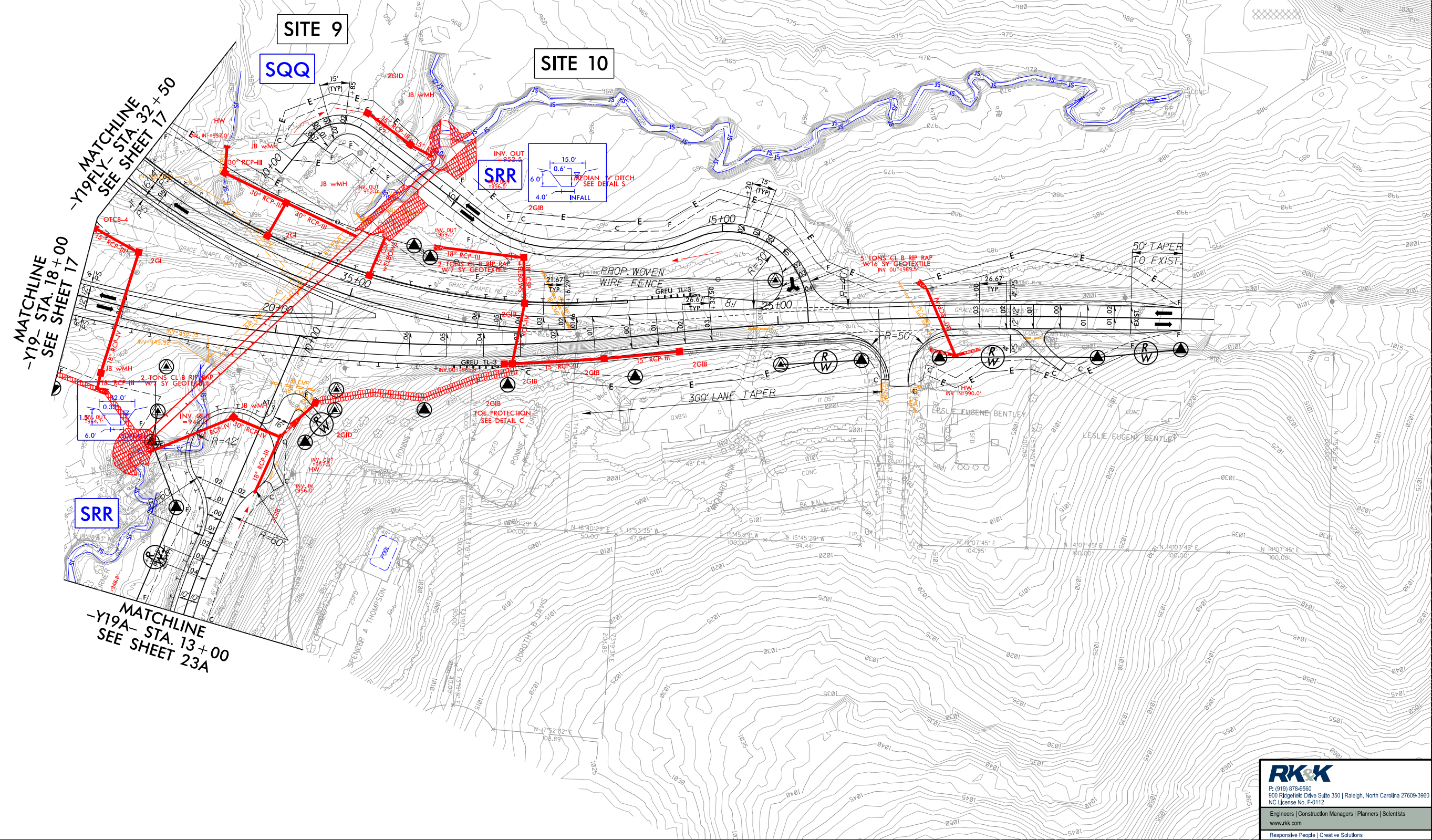
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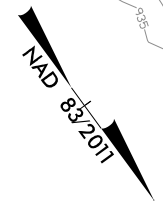
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PROJECT REFERENCE NO.	SHEET NO.
U-4700A	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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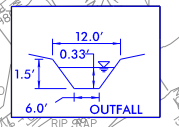
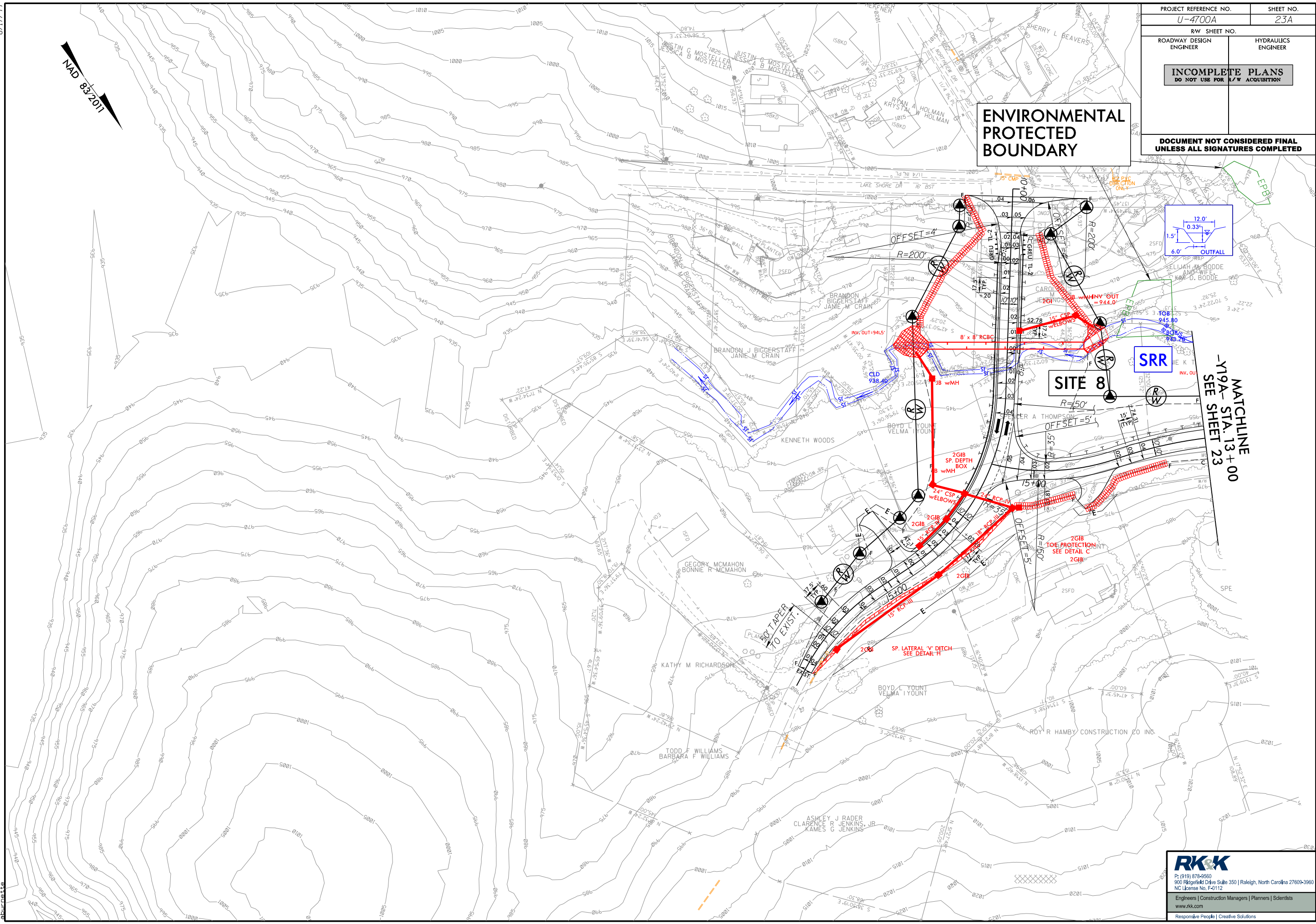


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PROJECT REFERENCE NO. U-4700A	SHEET NO. 23A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ENVIRONMENTAL PROTECTED BOUNDARY

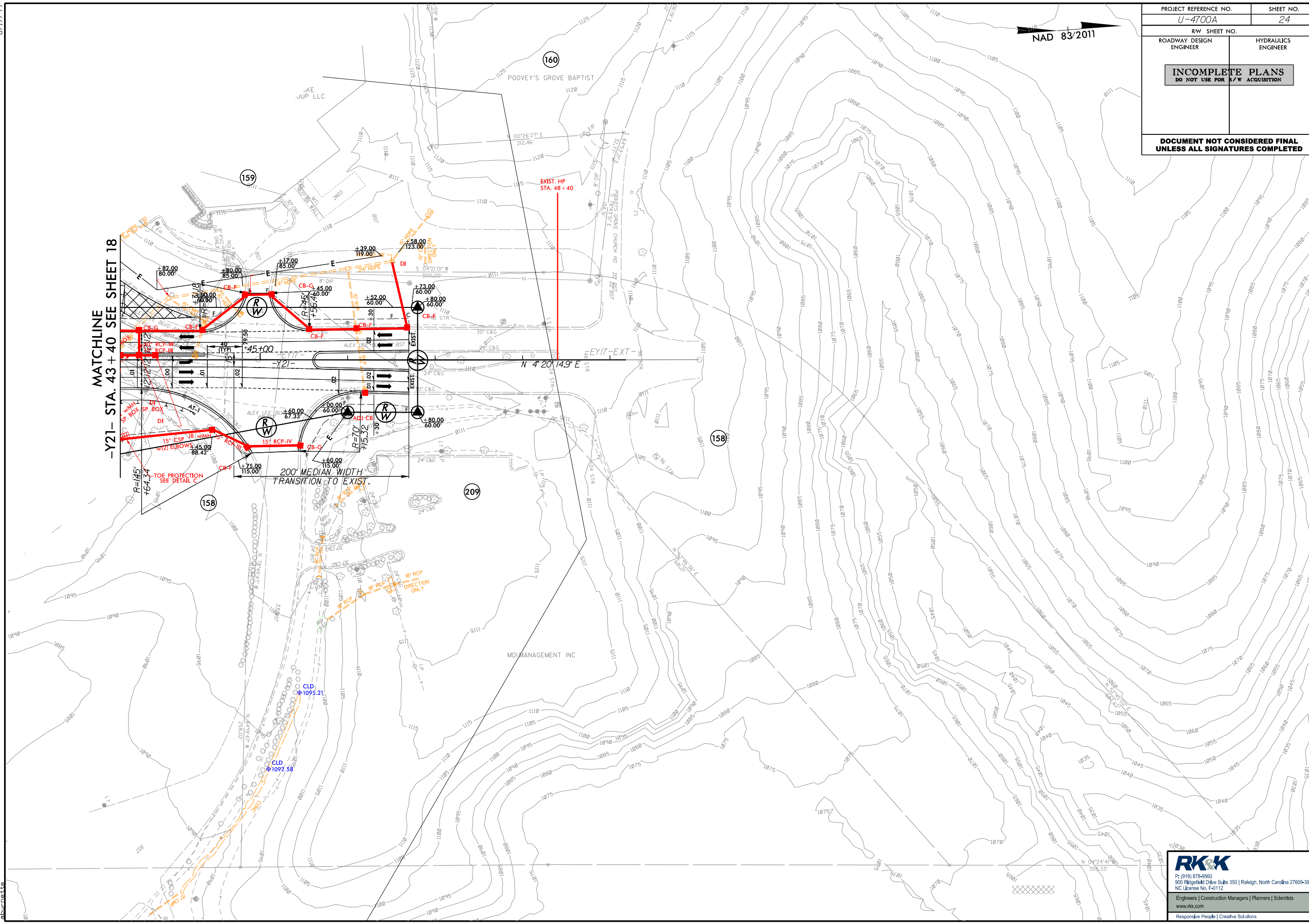


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PROJECT REFERENCE NO. U-4700A		SHEET NO. 24	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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