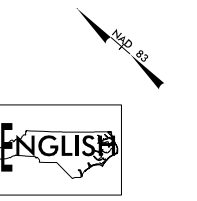


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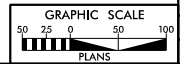
PROJECT REFERENCE NO: R-3329 / R-2559
 SHEET NO: 9
 ROADWAY DESIGN ENGINEER
 HYDROLOGICAL ENGINEER
INCOMPLETE PLANS
 PRELIMINARY PLANS
 PERMIT DRAWING
 SHEET 17 OF 267



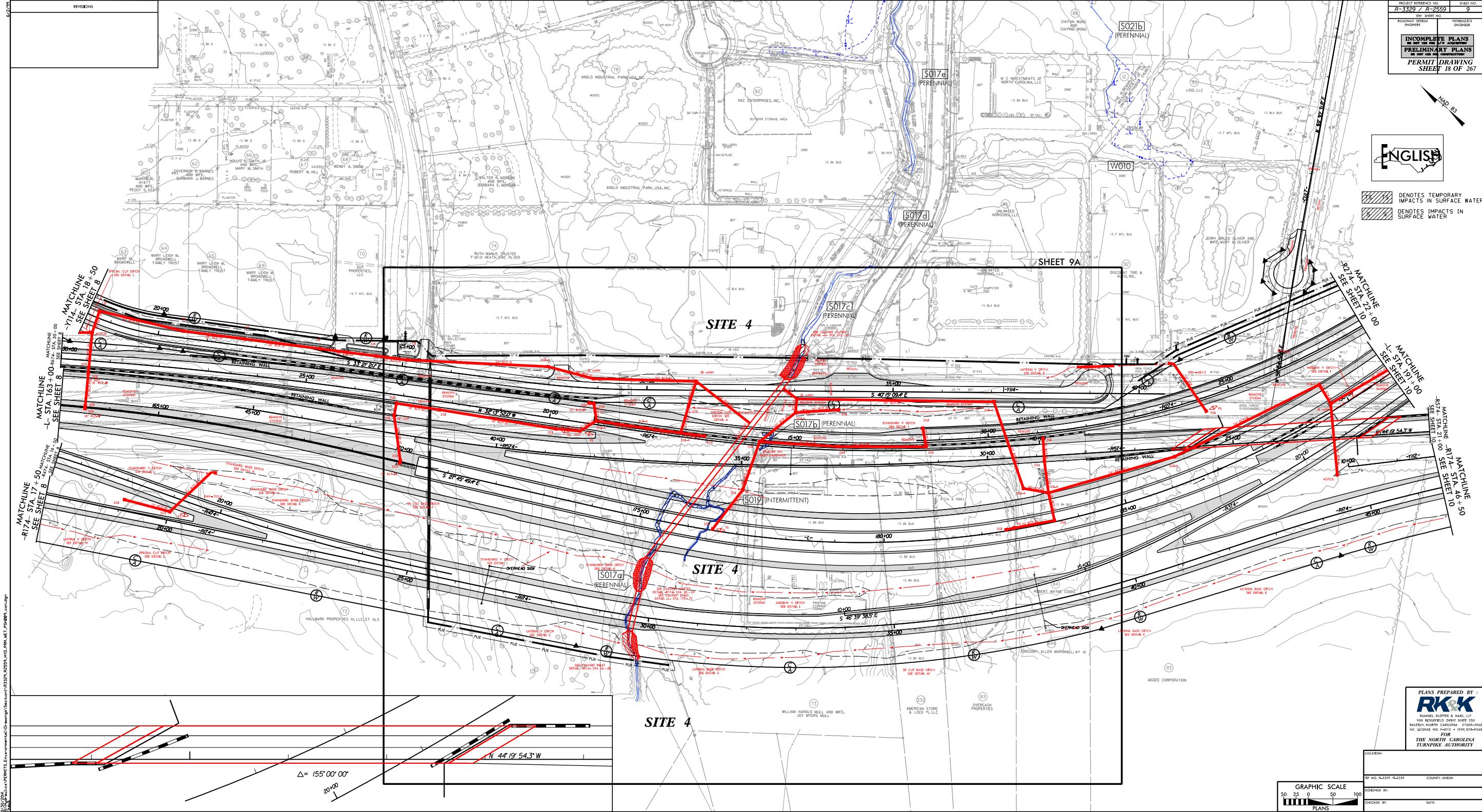
DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER

PLANS PREPARED BY:
RK&K
 ROYAL KESTER & KANE, LLP
 100 HIGHTOWER DRIVE SUITE 310
 RALEIGH, NORTH CAROLINA 27605-3100
 NC LICENSE NO. 1-4712 / 1991 878-9500
 FOR THE NORTH CAROLINA TURNPIKE AUTHORITY

LOCATION:	COUNTY: UNION
PROJECT NO. R-3329 / R-2559	CHECKED BY:
DATE:	DATE:

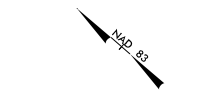


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REVISIONS	

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDROLOGIC ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
PRELIMINARY PLANS PERMIT DRAWING SHEET 18 OF 267	



- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER

MATCHLINE - STA. 103+00 SEE SHEET 8

MATCHLINE - STA. 114+50 SEE SHEET 8

MATCHLINE - STA. 17+50 SEE SHEET 8

MATCHLINE - STA. 22+00 SEE SHEET 10

MATCHLINE - STA. 46+50 SEE SHEET 10

MATCHLINE - STA. 91+00 SEE SHEET 10

MATCHLINE - STA. 99+00 SEE SHEET 10

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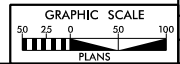
PLANS PREPARED BY:

RK&K

ROBERT KESTER & KIM, LLP
100 REDFIELD DRIVE SUITE 310
RALEIGH, NORTH CAROLINA 27605-9168
NC LICENSE NO. 1-4712 / 1991 878-9560

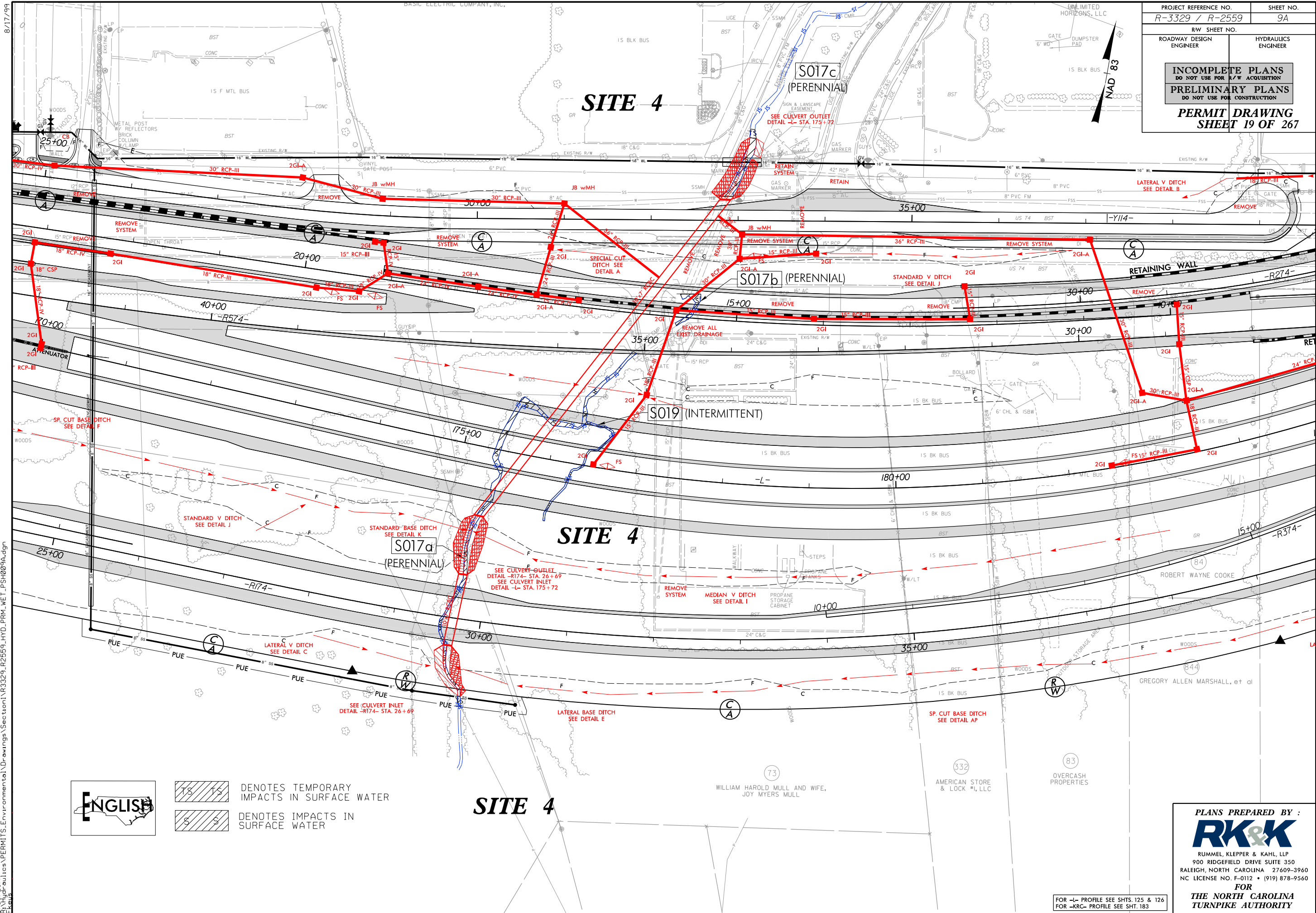
FOR THE NORTH CAROLINA TURNPIKE AUTHORITY

LOCATION:	COUNTY: UNION
PROJECT NO. R-3329 / R-2559	CHECKED BY: _____
DATE: _____	DATE: _____





$\Delta = 155^{\circ} 00' 00''$

N 44° 19' 54.3" W



ENGLISH

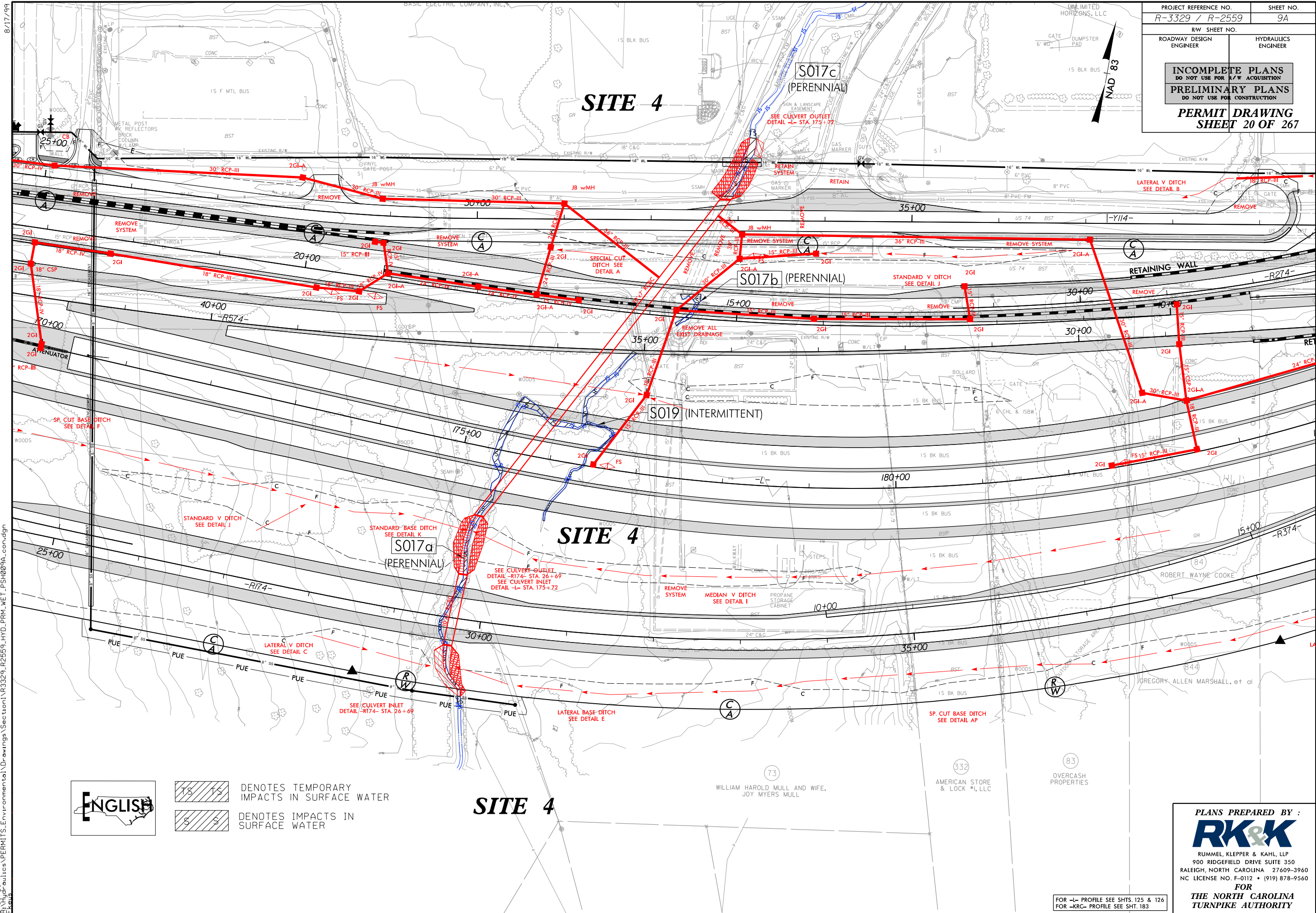
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER

SITE 4



FOR -L- PROFILE SEE SHTS. 125 & 126
 FOR -KRC- PROFILE SEE SHT. 183

PLANS PREPARED BY :
RK&K
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 NC LICENSE NO. F-0112 • (919) 878-9560
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 8/30/2014



ENGLISH

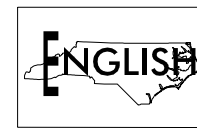
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES IMPACTS IN SURFACE WATER

SITE 4

FOR -L- PROFILE SEE SHTS. 125 & 126
 FOR -KRC- PROFILE SEE SHT. 183

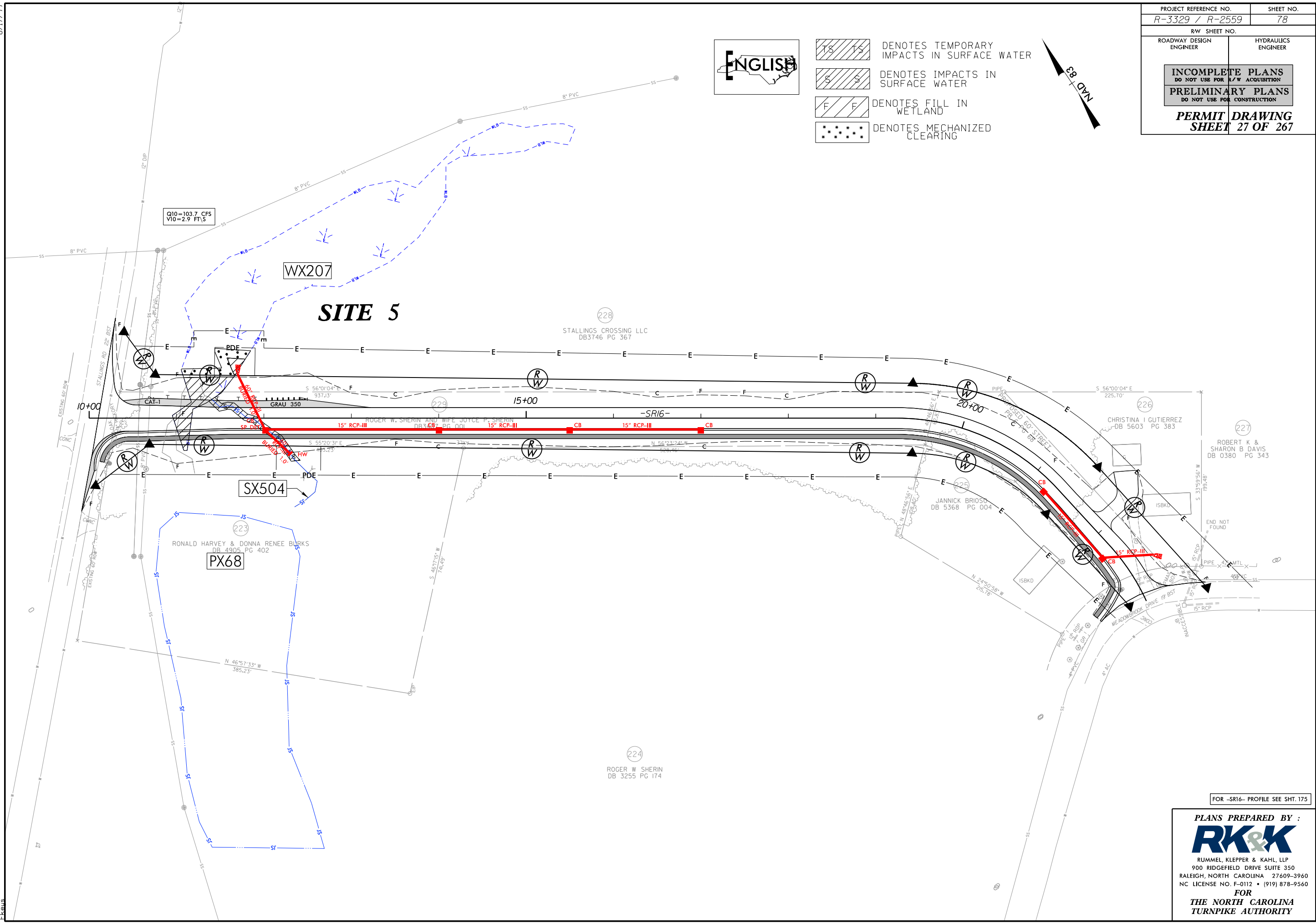
PLANS PREPARED BY :
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- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

8/17/99
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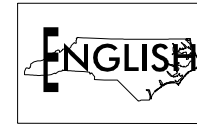


FOR -SR16- PROFILE SEE SHT. 175

PLANS PREPARED BY :

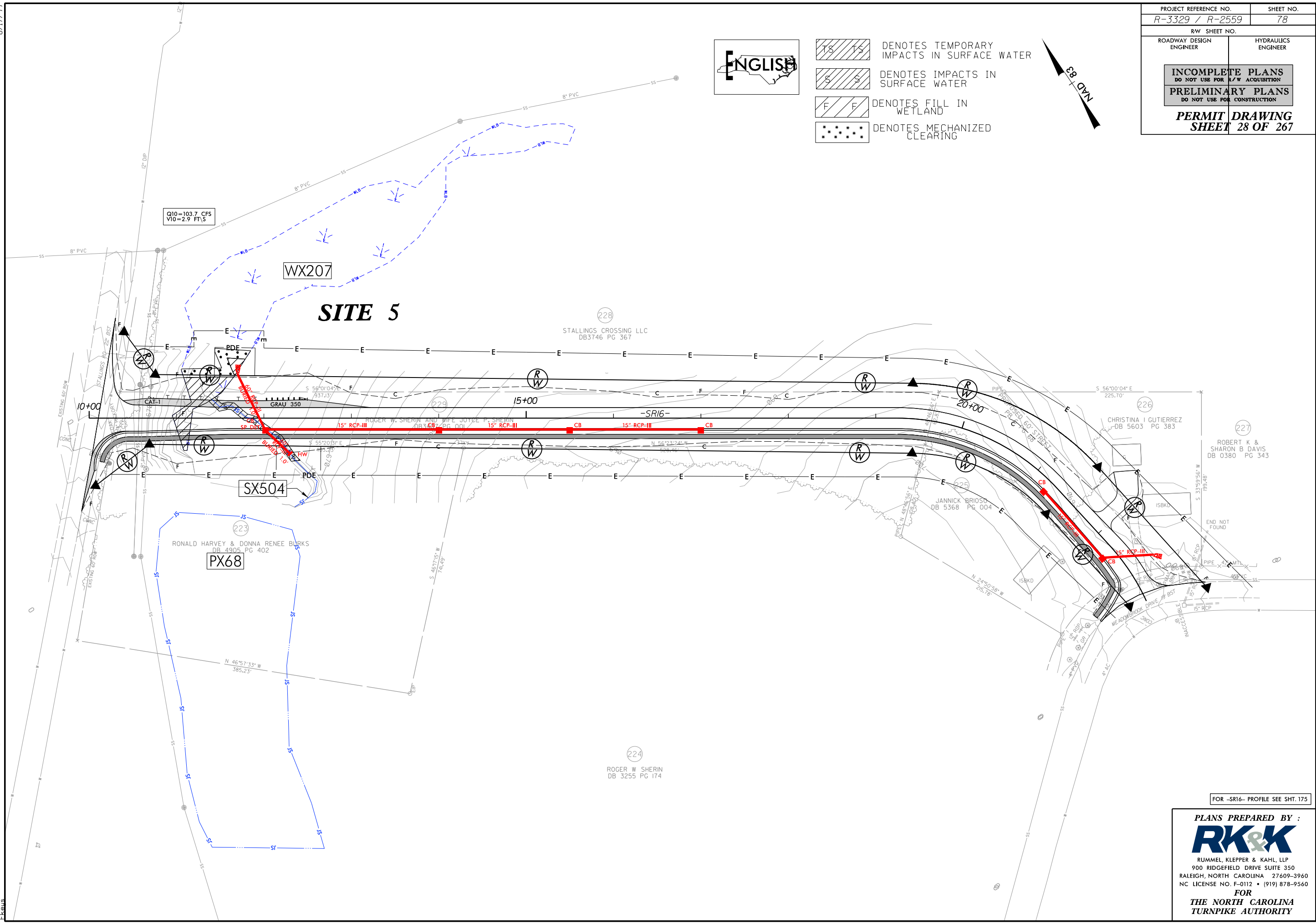
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
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TURNPIKE AUTHORITY

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 78
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT DRAWING SHEET 28 OF 267	



- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

8/17/99
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FOR -SR16- PROFILE SEE SHT. 175

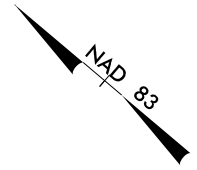
PLANS PREPARED BY :

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 900 RIDGEFIELD DRIVE SUITE 350
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 NC LICENSE NO. F-0112 • (919) 878-9560
 FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

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E:\Users\jlewis



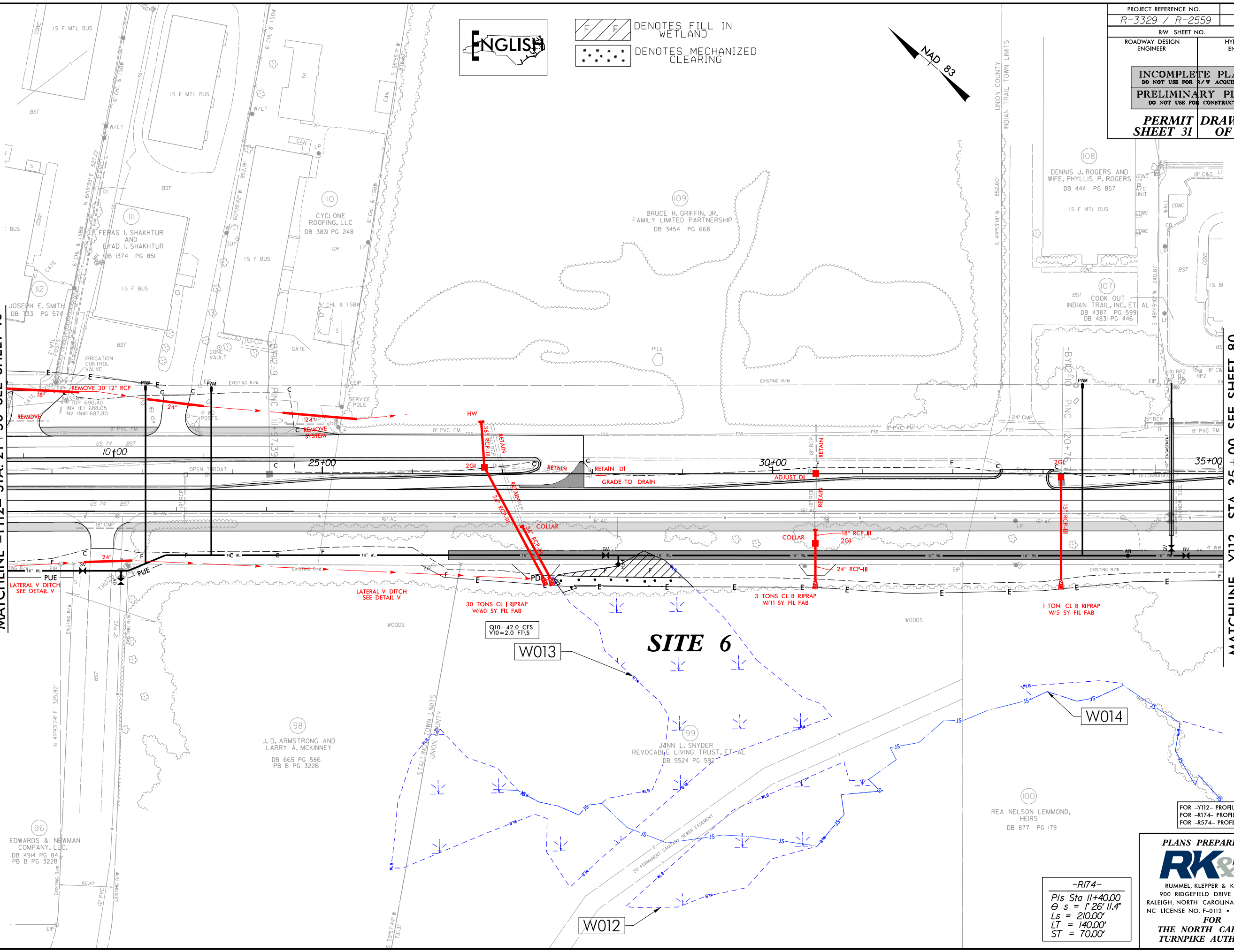
 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING



PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 79
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT SHEET 31	DRAWING OF 267

MATCHLINE -Y112- STA. 21+50 SEE SHEET 10

MATCHLINE -Y112- STA. 35+00 SEE SHEET 80



-R174-
Pls Sta 11+40.00
θ s = 1' 26" 11.4"
Ls = 210.00'
LT = 140.00'
ST = 70.00'

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RUMMEL, KLEPPER & KAHL, LLP
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FOR -Y112- PROFILE SEE SHT. 174
FOR -R174- PROFILE SEE SHT. 169
FOR -R574- PROFILE SEE SHT. 172

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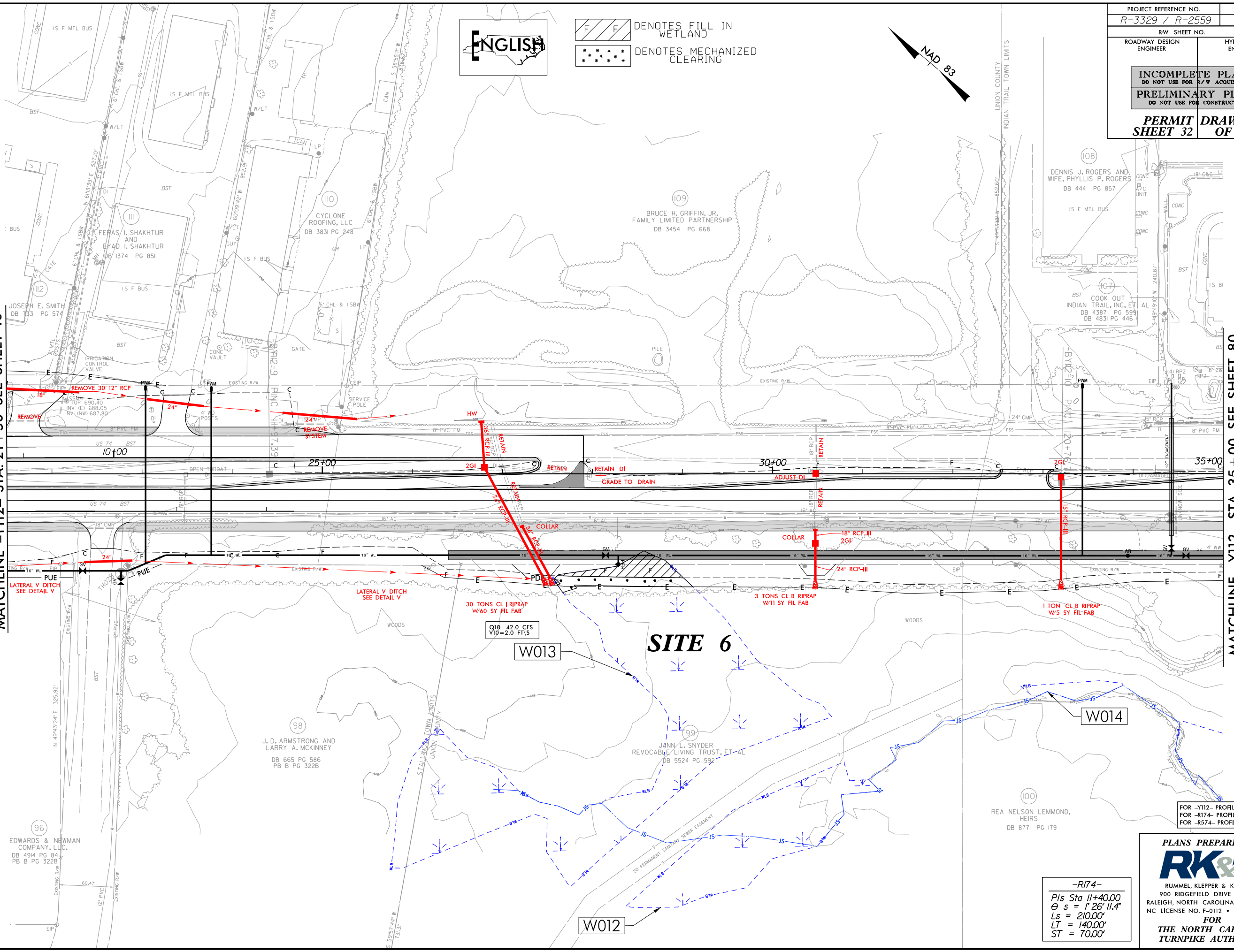
MATCHLINE -Y112- STA. 21+50 SEE SHEET 10

MATCHLINE -Y112- STA. 35+00 SEE SHEET 80

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 79
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT SHEET 32	DRAWING OF 267



DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING



SITE 6

Q10=42.0 CFS
V10=2.0 FT/S

-R174-
 PIs Sta 11+40.00
 $\theta s = 1' 26'' 11.4''$
 Ls = 210.00'
 LT = 140.00'
 ST = 70.00'



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THE NORTH CAROLINA
TURNPIKE AUTHORITY

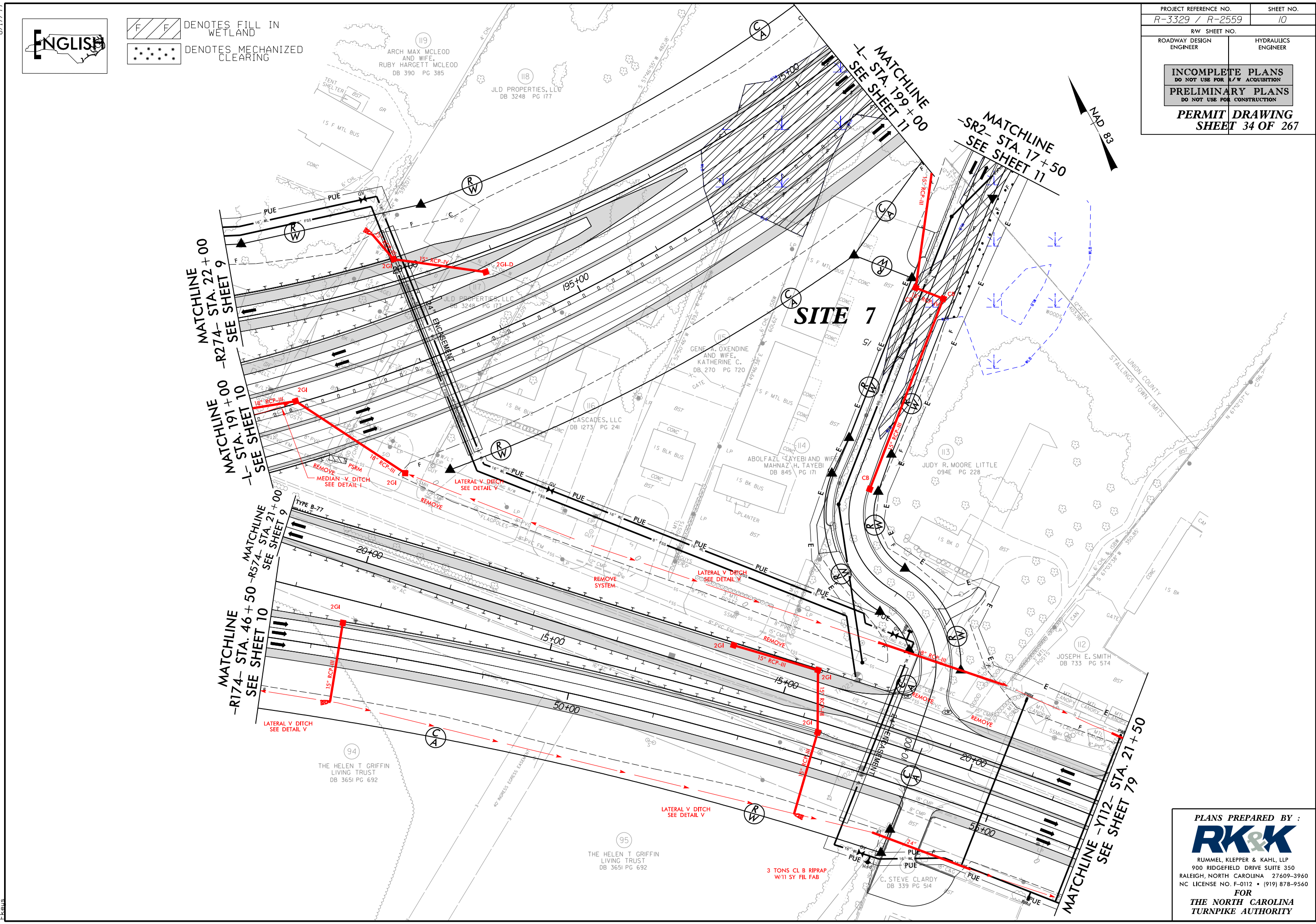
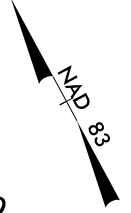
FOR -Y112- PROFILE SEE SHT. 174
 FOR -R174- PROFILE SEE SHT. 169
 FOR -R574- PROFILE SEE SHT. 172

8/17/99



 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT DRAWING SHEET 34 OF 267	





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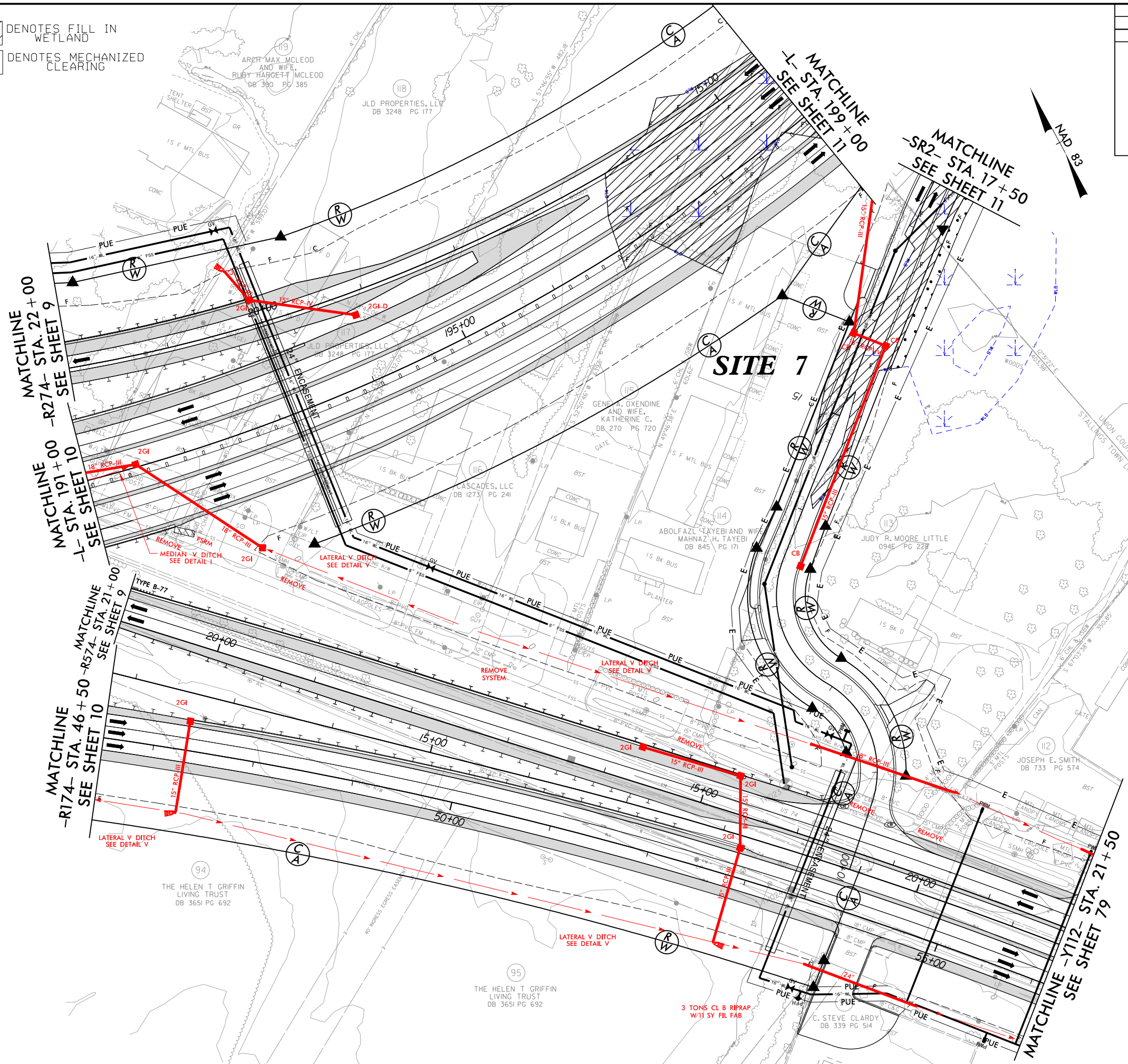
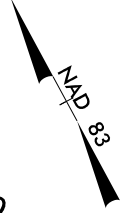
PLANS PREPARED BY :
RK&K
 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
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 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT DRAWING SHEET 35 OF 267	



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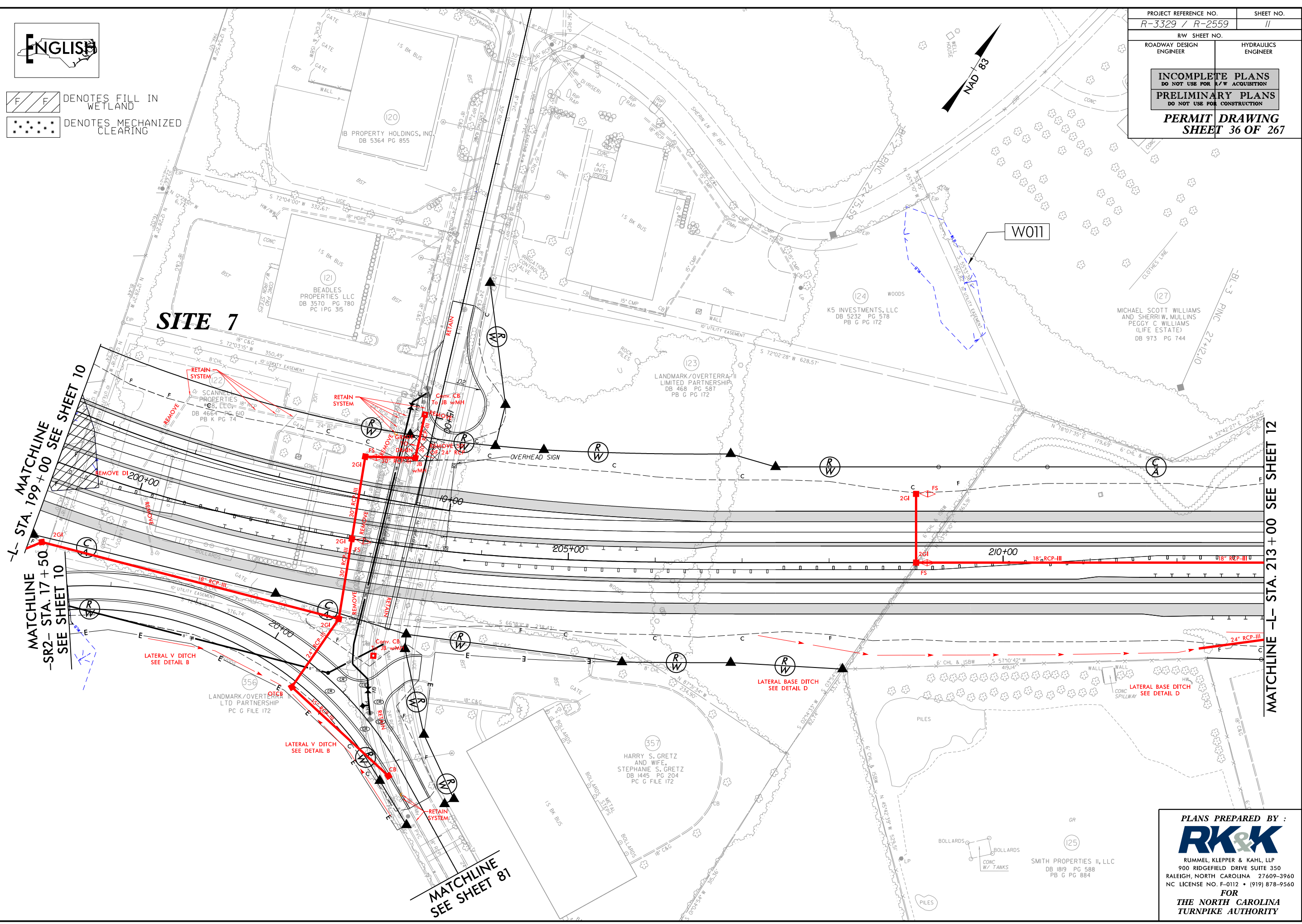
PLANS PREPARED BY :

 RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560
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DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION PERMIT DRAWING SHEET 36 OF 267	



MATCHLINE -L- STA. 17 + 50
-SR2- STA. 17 + 50
SEE SHEET 10

MATCHLINE -L- STA. 199 + 00
SEE SHEET 10

MATCHLINE -L- STA. 213 + 00
SEE SHEET 12

MATCHLINE
SEE SHEET 81

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
 900 RIDGEFIELD DRIVE SUITE 350
 RALEIGH, NORTH CAROLINA 27609-3960
 NC LICENSE NO. F-0112 • (919) 878-9560

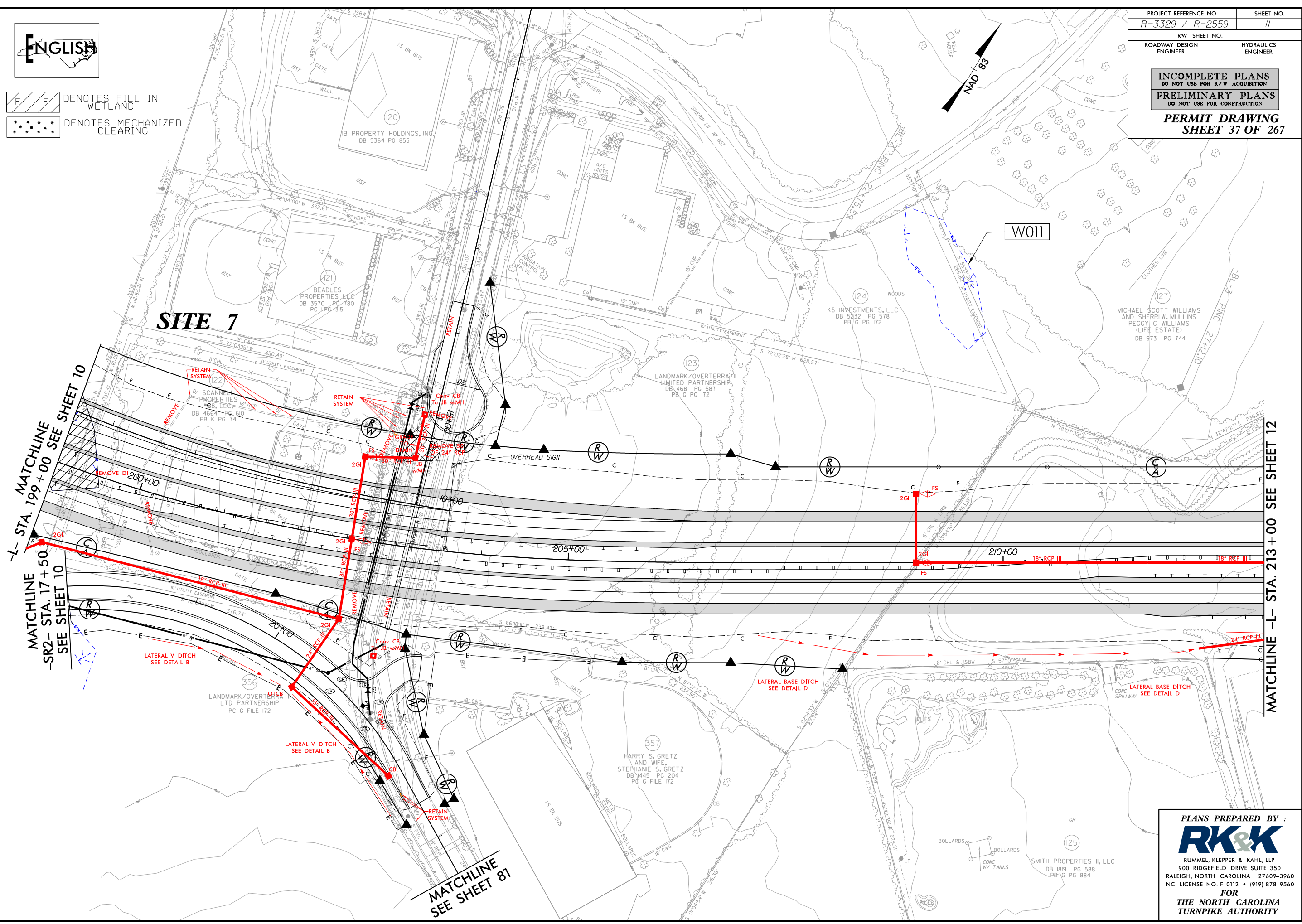
FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

8/17/99
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8/29/2014



DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 11
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
PERMIT DRAWING SHEET 37 OF 267	



PLANS PREPARED BY :
RK&K
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