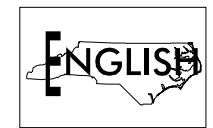
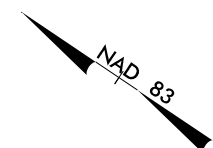
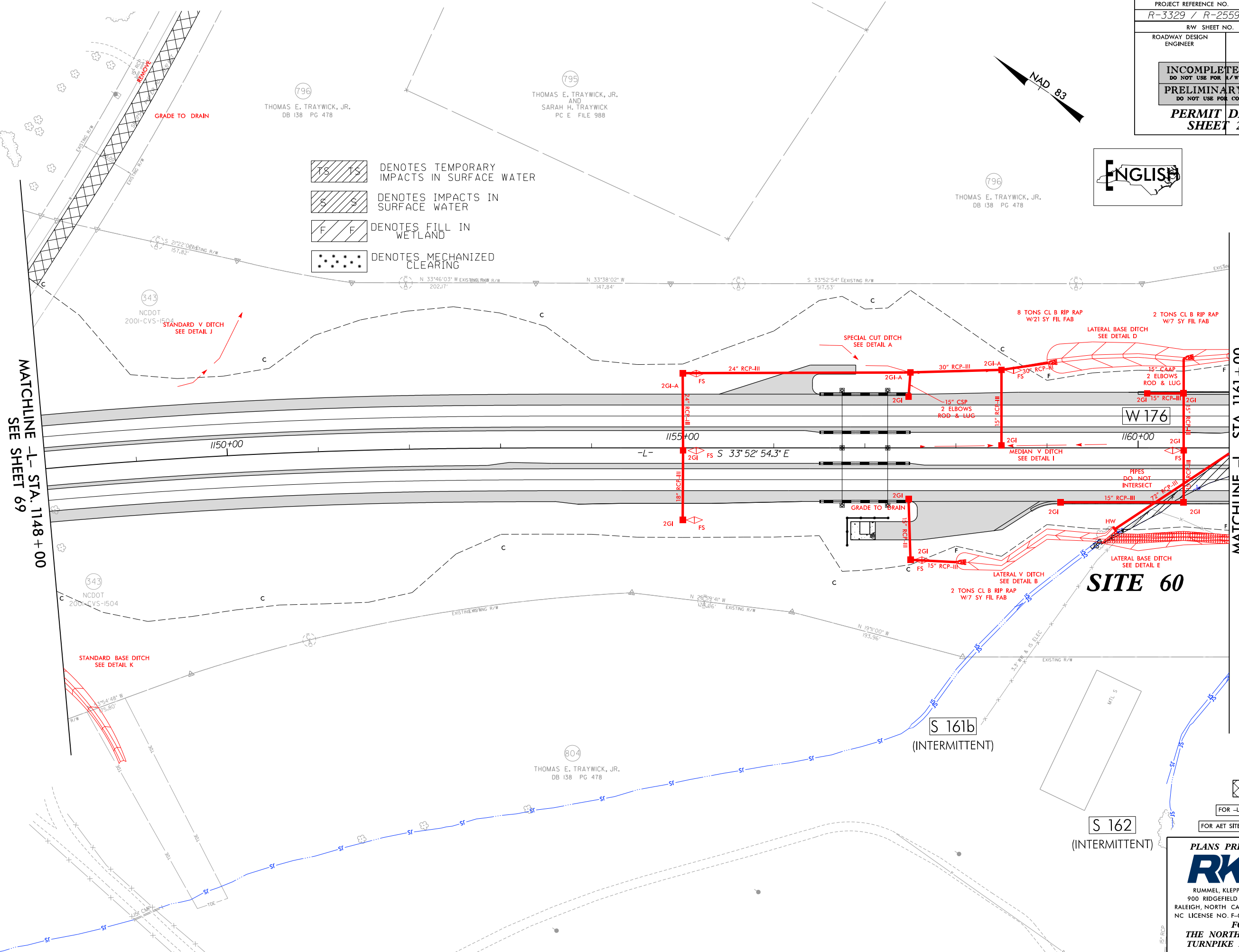


PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 70
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION <b>PERMIT DRAWING</b> <b>SHEET 237 OF 267</b>	



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



MATCHLINE -L- STA. 1148+00  
SEE SHEET 69

MATCHLINE -L- STA. 1161+00  
SEE SHEET 71

**SITE 60**

**S 161b**  
(INTERMITTENT)

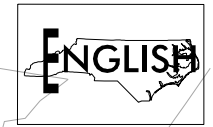
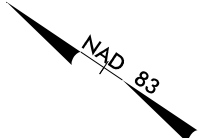
**S 162**  
(INTERMITTENT)

- OBLITERATE
- FOR -L- PROFILE SEE SHT. 158
- FOR AET SITE DETAIL SEE SHT. AET-8

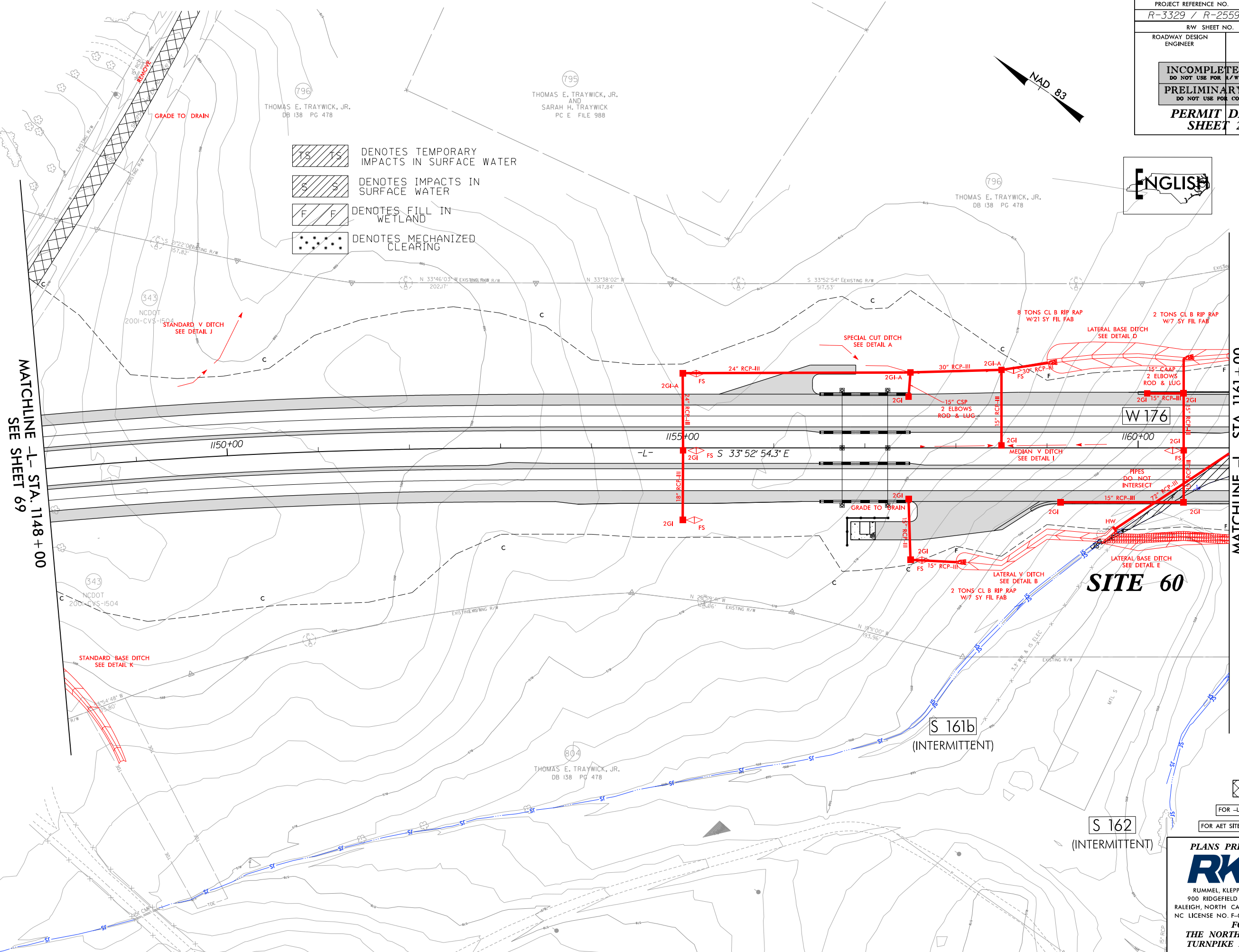
**PLANS PREPARED BY :**  
  
 RUMMEL, KLEPPER & KAHL, LLP  
 900 RIDGEFIELD DRIVE SUITE 350  
 RALEIGH, NORTH CAROLINA 27609-3960  
 NC LICENSE NO. F-0112 • (919) 878-9560  
**FOR**  
**THE NORTH CAROLINA**  
**TURNPIKE AUTHORITY**

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PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 70
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION <b>PERMIT DRAWING</b> <b>SHEET 238 OF 267</b>	



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



MATCHLINE -L- STA. 1148+00  
SEE SHEET 69

MATCHLINE -L- STA. 1161+00  
SEE SHEET 71

**SITE 60**

**S 161b**  
(INTERMITTENT)

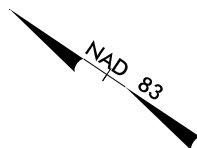
**S 162**  
(INTERMITTENT)

- OBLITERATE
- FOR -L- PROFILE SEE SHT. 158
- FOR AET SITE DETAIL SEE SHT. AET-8

**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  
**FOR**  
**THE NORTH CAROLINA**  
**TURNPIKE AUTHORITY**

8/17/99  
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8/29/2014



NOTES:  
INSTALL 72" RCP AND 10'X6' RCBC AT -L- STA. 1162+00 BURIED 1.0' BELOW WETLAND ELEVATION. DO NOT BURY 42" RCP PIPE.

**SITE 60**

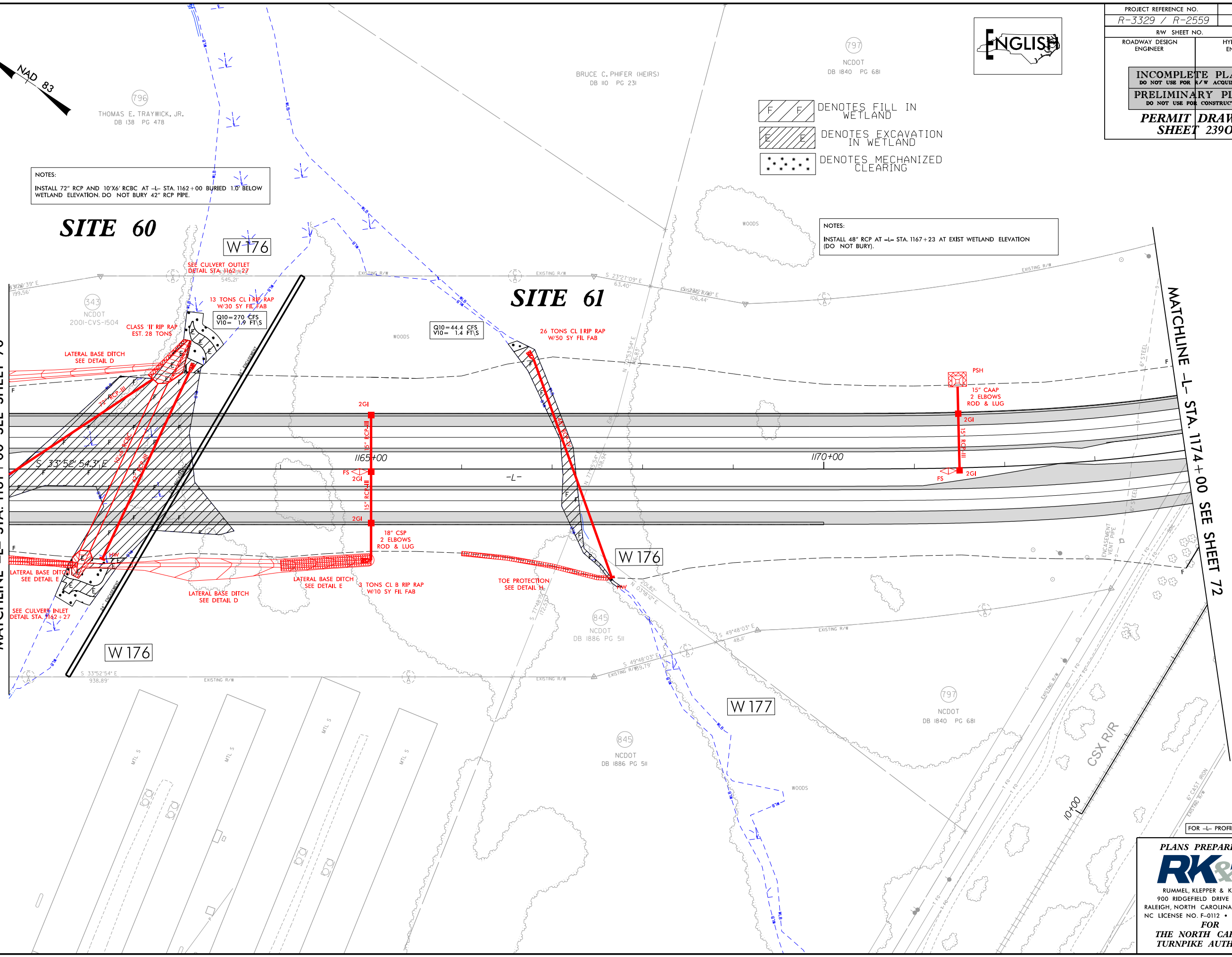
**SITE 61**

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

NOTES:  
INSTALL 48" RCP AT -L- STA. 1167+23 AT EXIST WETLAND ELEVATION (DO NOT BURY).

MATCHLINE -L- STA. 1161+00 SEE SHEET 70

MATCHLINE -L- STA. 1174+00 SEE SHEET 72



PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 71
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING</b> <b>SHEET 239 OF 267</b>	



797  
NCDOT  
DB 1840 PG 681

796  
THOMAS E. TRAYWICK, JR.  
DB 138 PG 478

BRUCE C. PHIFER (HEIRS)  
DB 110 PG 231

543  
NCDOT  
2001-CVS-1504

845  
NCDOT  
DB 1886 PG 511

797  
NCDOT  
DB 1840 PG 681

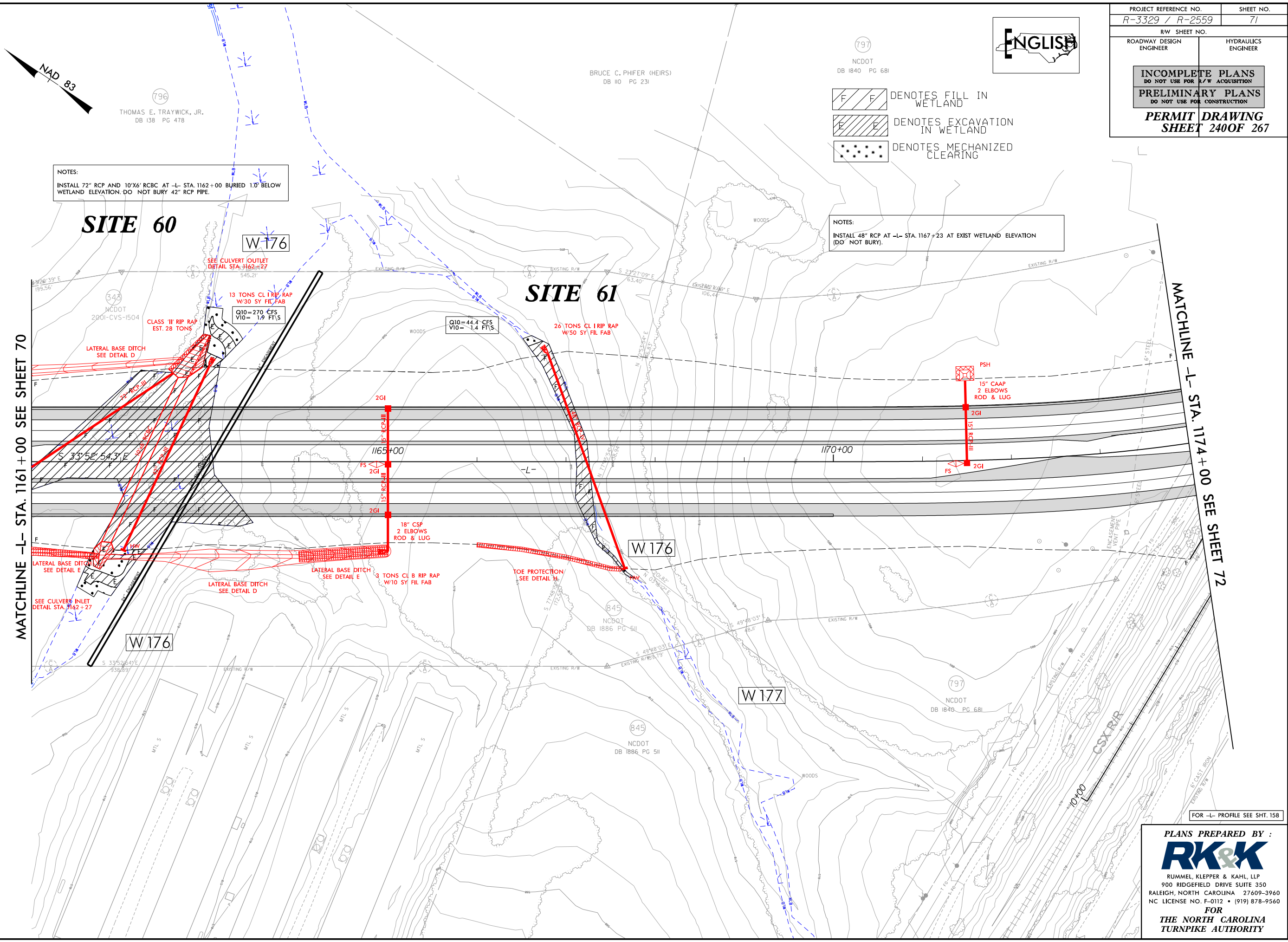
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NCDOT  
DB 1886 PG 511

FOR -L- PROFILE SEE SHT. 158

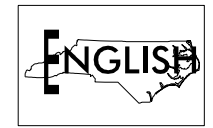
PLANS PREPARED BY :  
**RK&K**  
RUMMEL, KLEPPER & KAHL, LLP  
900 RIDGEFIELD DRIVE SUITE 350  
RALEIGH, NORTH CAROLINA 27609-3960  
NC LICENSE NO. F-0112 • (919) 878-9560  
FOR  
THE NORTH CAROLINA  
TURNPIKE AUTHORITY



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8/29/2014



PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 71
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING SHEET 240 OF 267</b>	



797  
NCDOT  
DB 1840 PG 681

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

NOTES:  
INSTALL 72" RCP AND 10'X6' RCBC AT -L- STA. 1162+00 BURIED 1.0' BELOW WETLAND ELEVATION. DO NOT BURY 42" RCP PIPE.

NOTES:  
INSTALL 48" RCP AT -L- STA. 1167+23 AT EXIST WETLAND ELEVATION (DO NOT BURY).

MATCHLINE -L- STA. 1174+00 SEE SHEET 72

MATCHLINE -L- STA. 1161+00 SEE SHEET 70

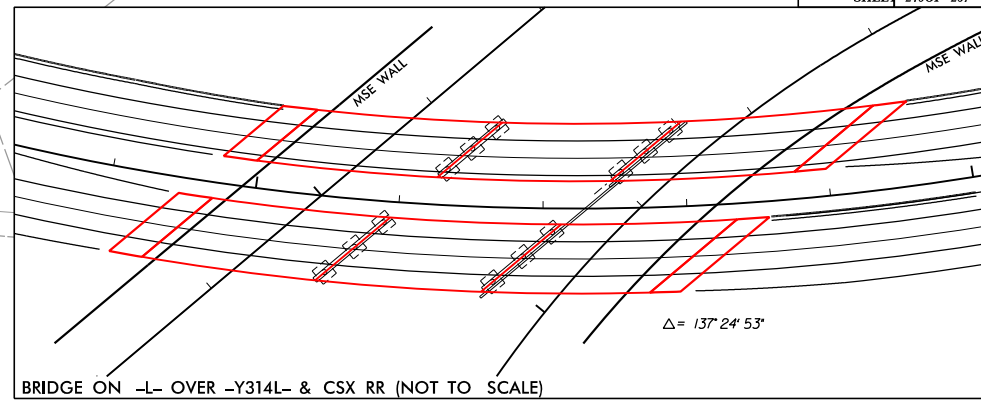
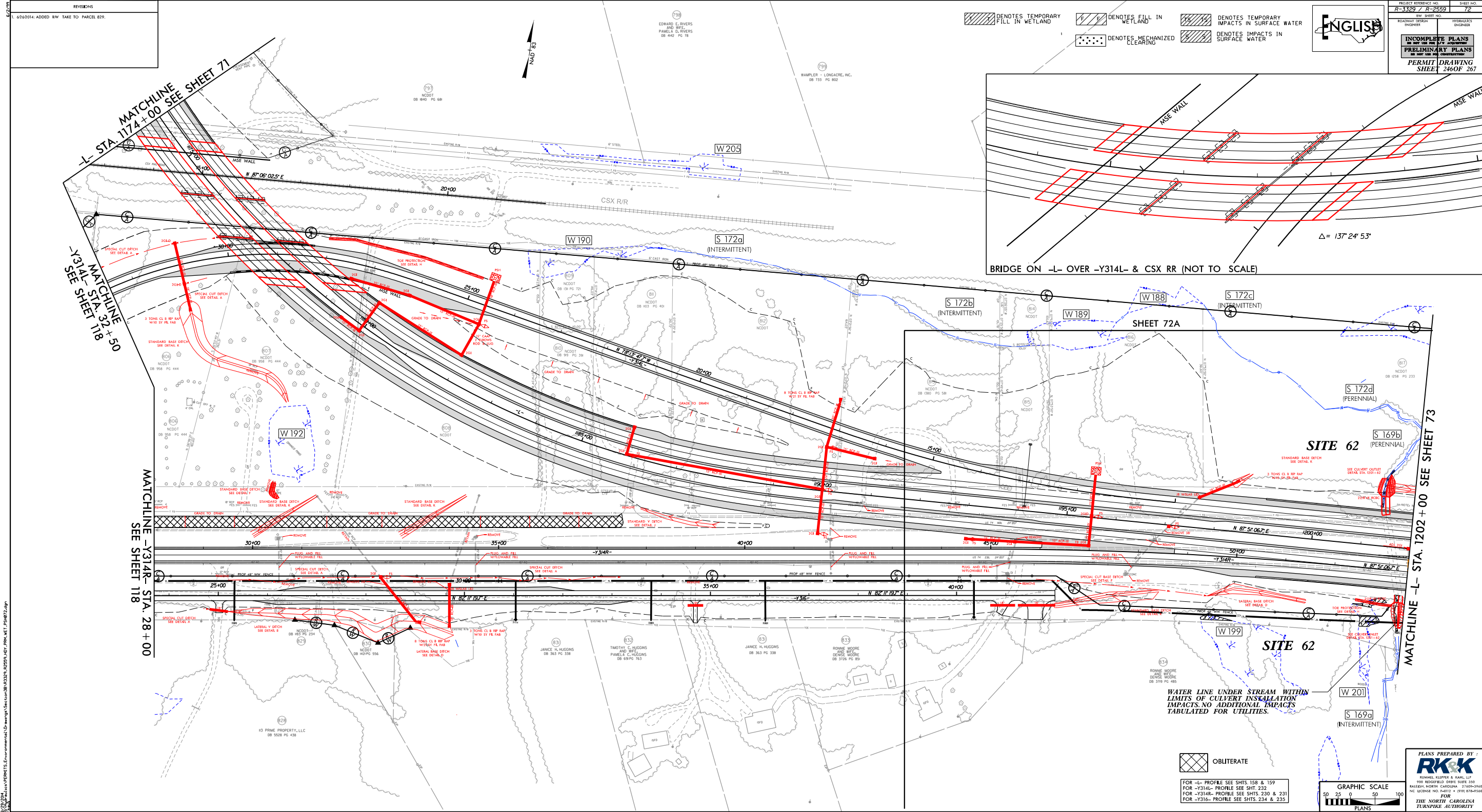
FOR -L- PROFILE SEE SHT. 158

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

REVISIONS
0/6/2014-ADDED RW TAKE TO PARCEL 829

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 72
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR CONSTRUCTION <b>PRELIMINARY PLANS</b> PERMIT DRAWING SHEET 246 OF 267	

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

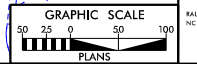


3/21/2014 10:00 AM C:\Users\jferrell\Documents\Projects\3329\3329.dwg PLOT DATE: 03/21/2014 10:00 AM PLOT BY: jferrell

WATER LINE UNDER STREAM WITHIN  
 LIMITS OF CULVERT INSTALLATION  
 IMPACTS NO ADDITIONAL IMPACTS  
 TABULATED FOR UTILITIES.

OBLITERATE

FOR -L- PROFILE SEE SHTS. 158 & 159  
 FOR -Y314L- PROFILE SEE SHIT. 232  
 FOR -Y314R- PROFILE SEE SHITS. 230 & 231  
 FOR -Y316- PROFILE SEE SHITS. 234 & 235



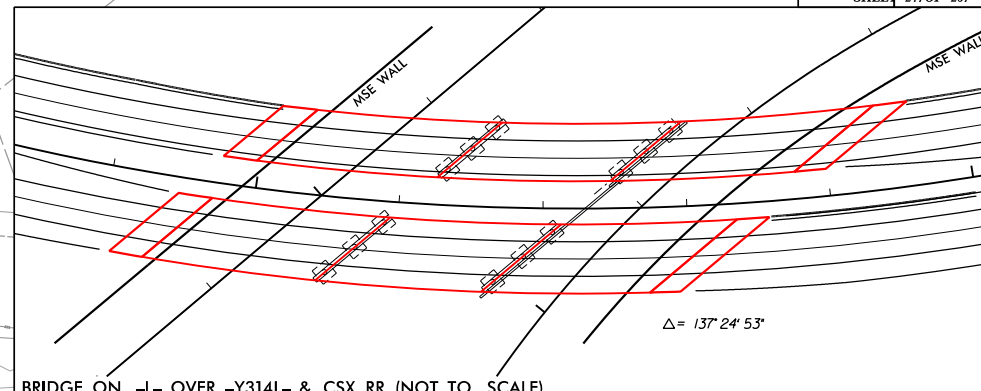
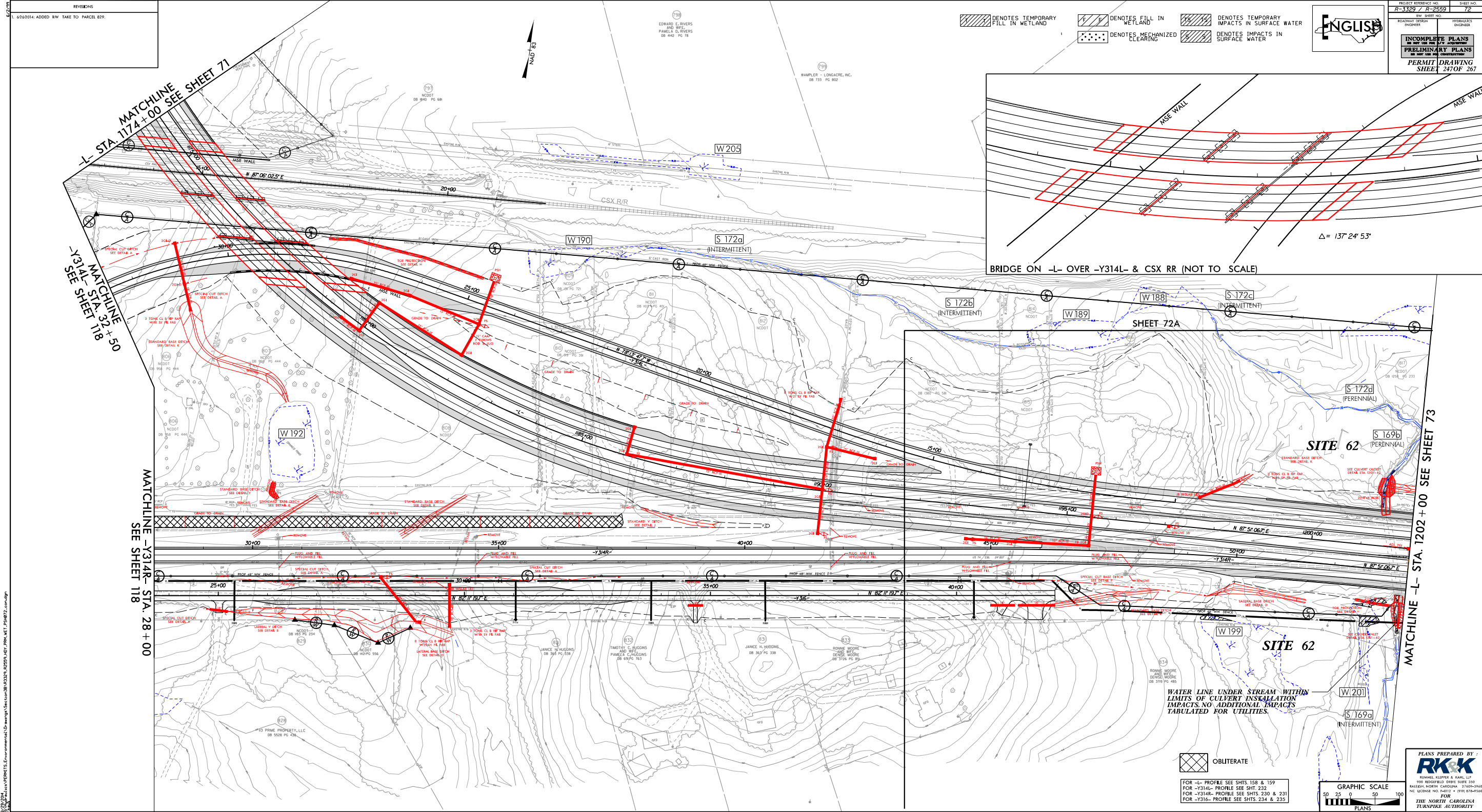
PLANS PREPARED BY:  
**RK&K**  
 RUSSELL KLEPPER & KAHN, LLP  
 100 WOODFIELD DRIVE SUITE 330  
 RALEIGH, NORTH CAROLINA 27609-2940  
 NC LICENSE NO. J00171 & 0178 BRYANSHAW  
 FOR  
 THE NORTH CAROLINA  
 TURNPIKE AUTHORITY



REVISIONS
02/20/2014-ADDED RW TAKE TO PARCEL 829

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 72
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR CONSTRUCTION <b>PERMIT DRAWING</b> SHEET 247 OF 267	

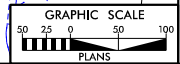
- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER



WATER LINE UNDER STREAM WITHIN LIMITS OF CULVERT INSTALLATION IMPACTS NO ADDITIONAL IMPACTS TABULATED FOR UTILITIES.

OBLITERATE

FOR -L- PROFILE SEE SHTS. 158 & 159  
 FOR -Y314L- PROFILE SEE SHIT. 232  
 FOR -Y314R- PROFILE SEE SHITS. 230 & 231  
 FOR -Y316- PROFILE SEE SHITS. 234 & 235



PLANS PREPARED BY:  
**RK&K**  
 RUSSELL KLEPPER & KAHN, L.P.  
 909 WOODFIELD DRIVE, SUITE 330  
 RALEIGH, NORTH CAROLINA 27609-2940  
 NC LICENSE NO. J00177 - J. OYER-BRANHAM  
 FOR  
 THE NORTH CAROLINA  
 TURNPIKE AUTHORITY

8/17/99

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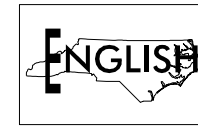
DIAGONAL HATCHING DENOTES TEMPORARY FILL IN WETLAND

F DENOTES FILL IN WETLAND

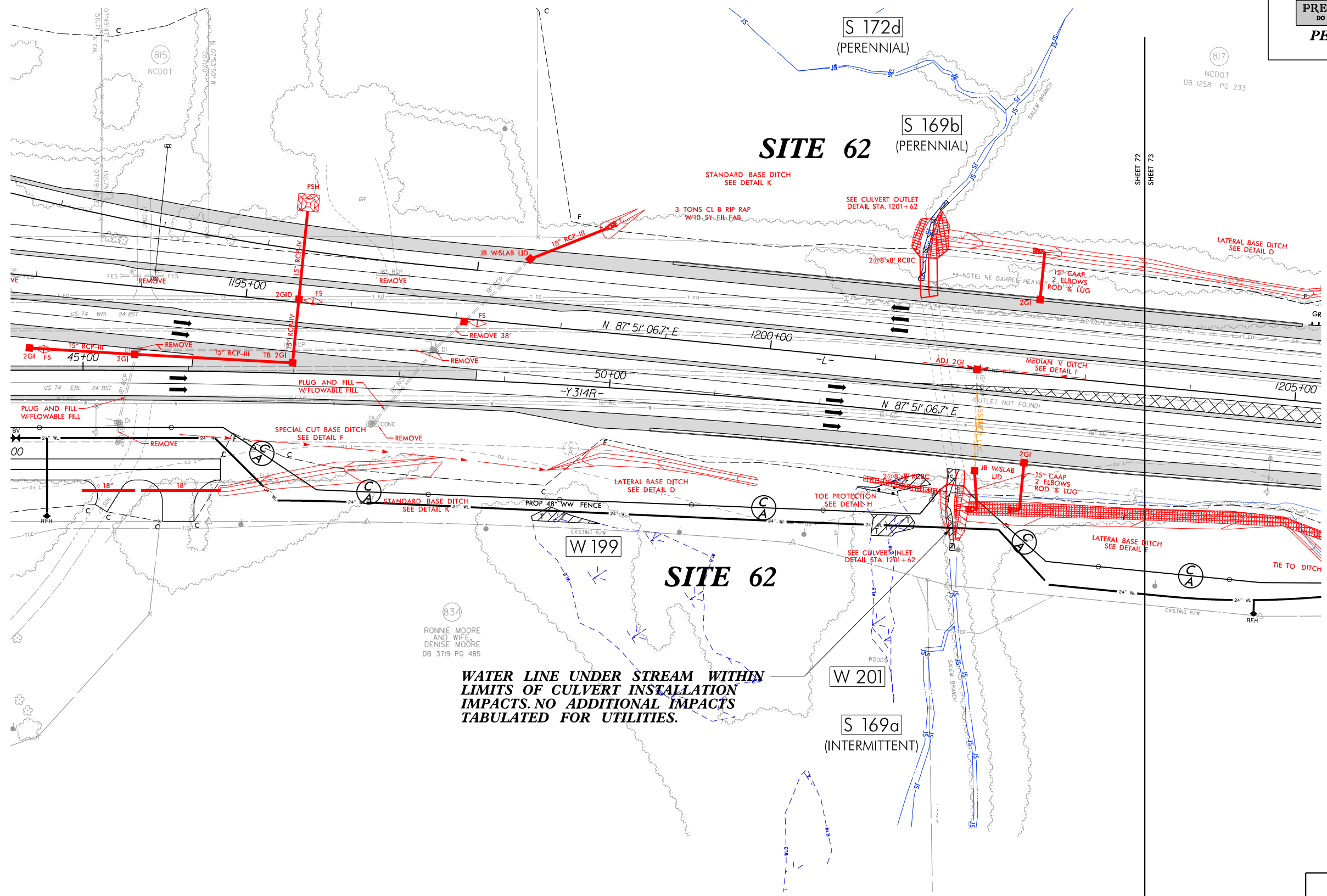
TS DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DOTS DENOTES MECHANIZED CLEARING

S DENOTES IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 72A
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 248 OF 267	



FOR -L- PROFILE SEE SHT. 158

PLANS PREPARED BY :

**RK&K**

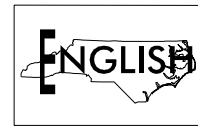
RUMMEL, KLEPPER & KAHL, LLP  
900 RIDGEFIELD DRIVE SUITE 350  
RALEIGH, NORTH CAROLINA 27609-3960  
NC LICENSE NO. F-0112 • (919) 878-9560

FOR  
THE NORTH CAROLINA  
TURNPIKE AUTHORITY

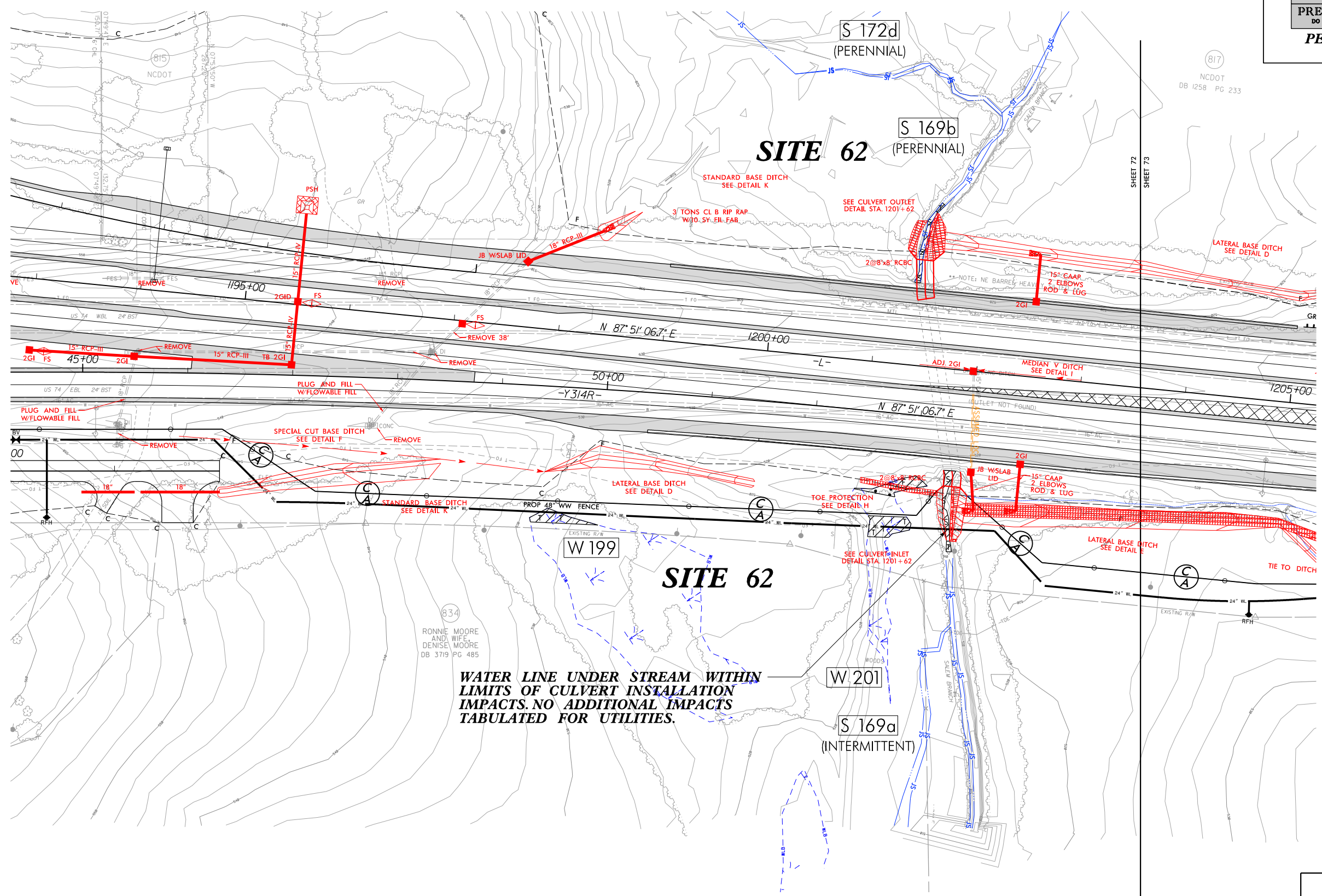


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DENOTES TEMPORARY FILL IN WETLAND  
 DENOTES FILL IN WETLAND  
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER  
 DENOTES IMPACTS IN SURFACE WATER  
 DENOTES MECHANIZED CLEARING



PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 72A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING</b> <b>SHEET 249 OF 267</b>	



**WATER LINE UNDER STREAM WITHIN LIMITS OF CULVERT INSTALLATION IMPACTS. NO ADDITIONAL IMPACTS TABULATED FOR UTILITIES.**

FOR -L- PROFILE SEE SHT. 158

**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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**THE NORTH CAROLINA**  
**TURNPIKE AUTHORITY**

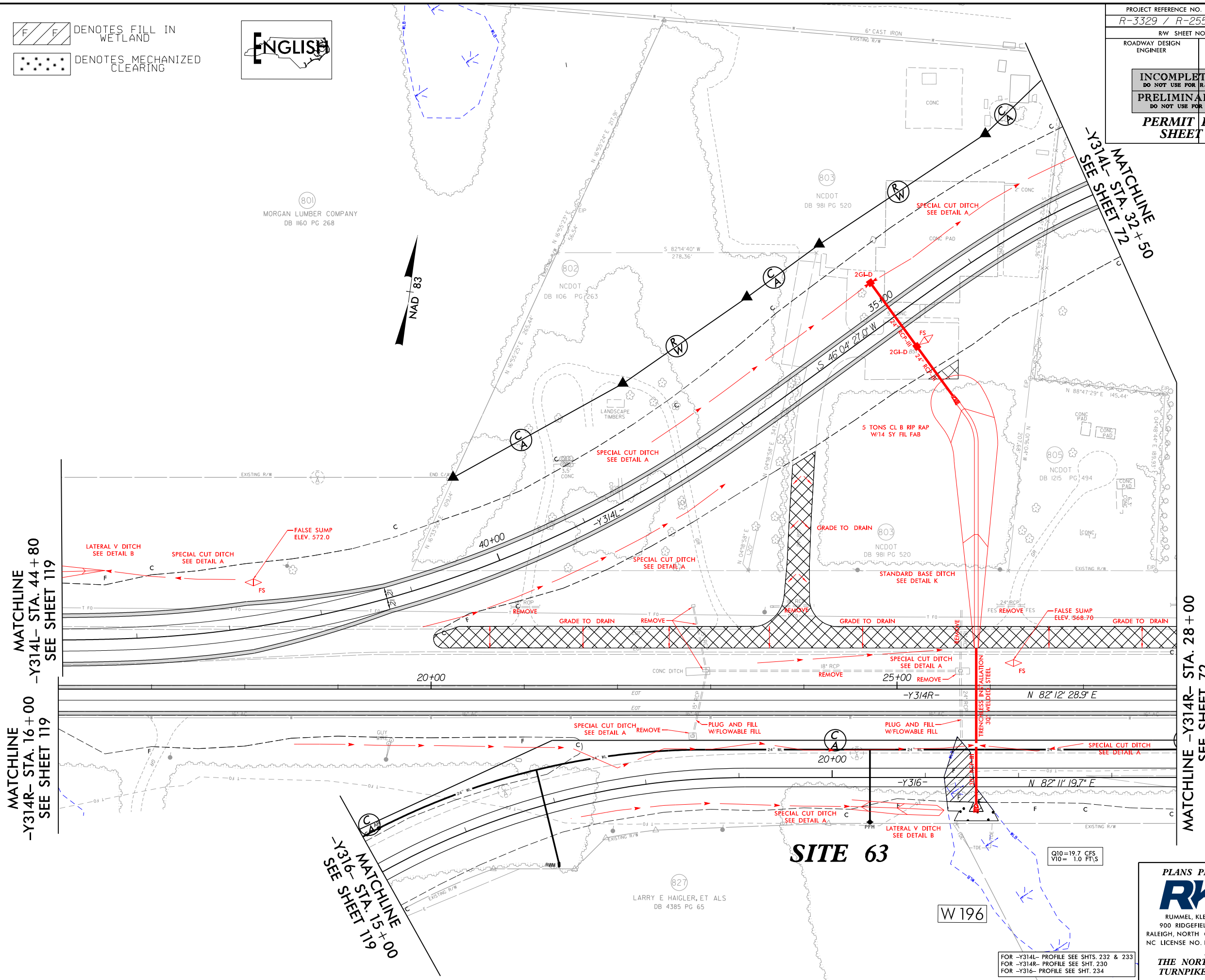


PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 118
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING</b> <b>SHEET 253 OF 267</b>	

DENOTES FILL IN WETLAND  
 DENOTES MECHANIZED CLEARING



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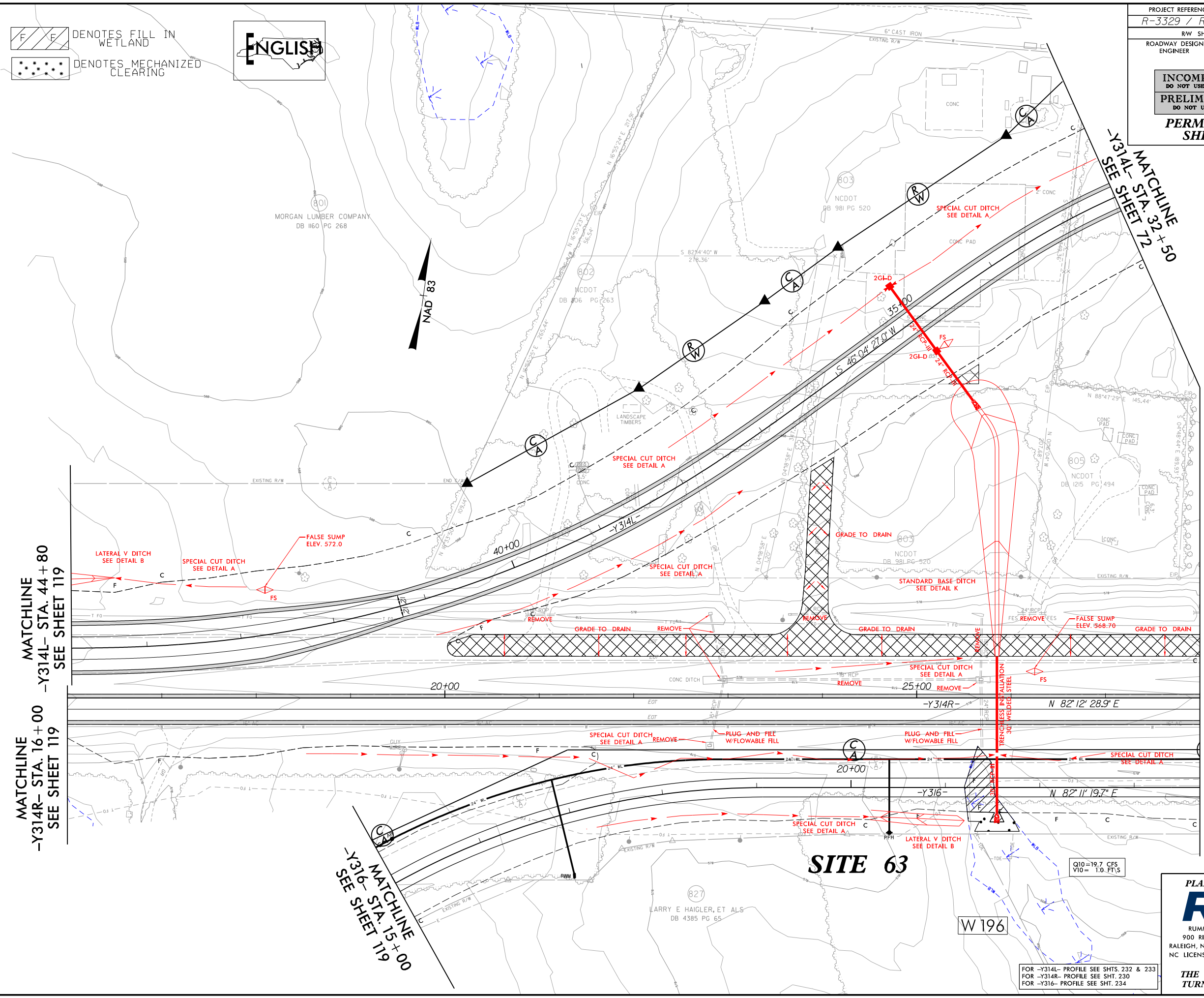


PLANS PREPARED BY :  
  
 RUMMEL, KLEPPER & KAHL, LLP  
 900 RIDGEFIELD DRIVE SUITE 350  
 RALEIGH, NORTH CAROLINA 27609-3960  
 NC LICENSE NO. F-0112 • (919) 878-9560  
 FOR  
**THE NORTH CAROLINA**  
**TURNPIKE AUTHORITY**

FOR -Y314L- PROFILE SEE SHTS. 232 & 233  
 FOR -Y314R- PROFILE SEE SHT. 230  
 FOR -Y316- PROFILE SEE SHT. 234

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 118
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING</b> <b>SHEET 254 OF 267</b>	

DENOTES FILL IN WETLAND  
 DENOTES MECHANIZED CLEARING



MATCHLINE  
 -Y314R- STA. 16+00  
 SEE SHEET 119

MATCHLINE -Y314R- STA. 28+00  
 SEE SHEET 72

MATCHLINE  
 -Y316- STA. 15+00  
 SEE SHEET 119

**SITE 63**

Q10=19.7 CFS  
V10= 1.0 FT/S

**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  
**FOR**  
**THE NORTH CAROLINA**  
**TURNPIKE AUTHORITY**

FOR -Y314L- PROFILE SEE SHTS. 232 & 233  
 FOR -Y314R- PROFILE SEE SHT. 230  
 FOR -Y316- PROFILE SEE SHT. 234

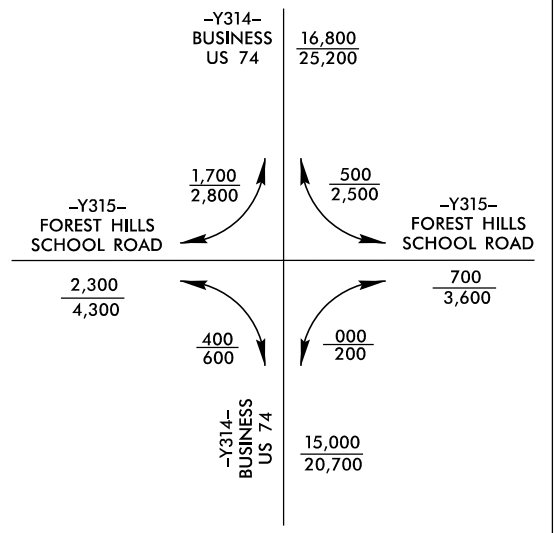
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 8/29/2014



8/17/99

ADT 2013  
ADT 2035

TRAFFIC DIAGRAM

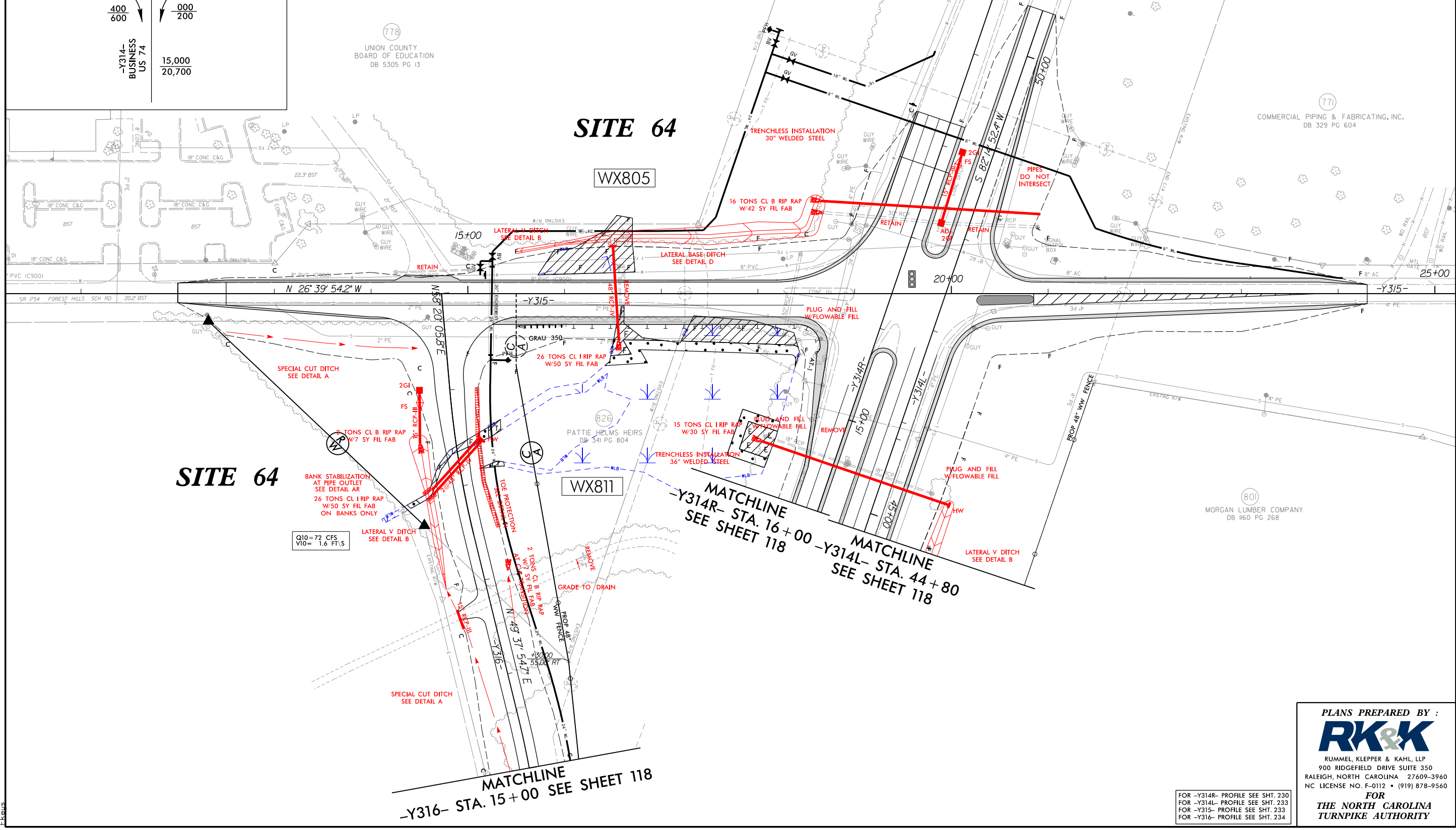


- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES TEMPORARY FILL IN WETLAND



NOTES:  
INSTALL ONE 48" RCP AT -Y316- STA. 11+76 BURIED 0.8' BELOW EXIST. WETLAND ELEVATION. INSTALL SECOND 48" RCP 1.0' ABOVE BURIED PIPE.

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 119
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING SHEET 256 OF 267</b>	



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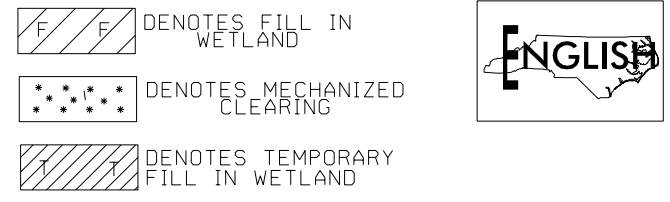
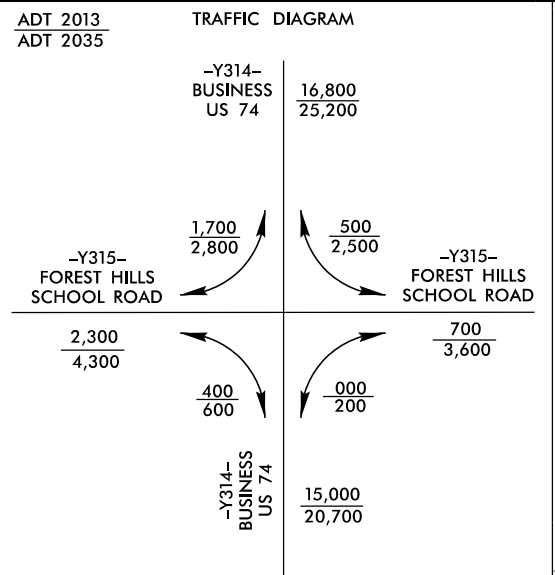
FOR -Y314R- PROFILE SEE SHT. 230  
FOR -Y314L- PROFILE SEE SHT. 233  
FOR -Y315- PROFILE SEE SHT. 233  
FOR -Y316- PROFILE SEE SHT. 234

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

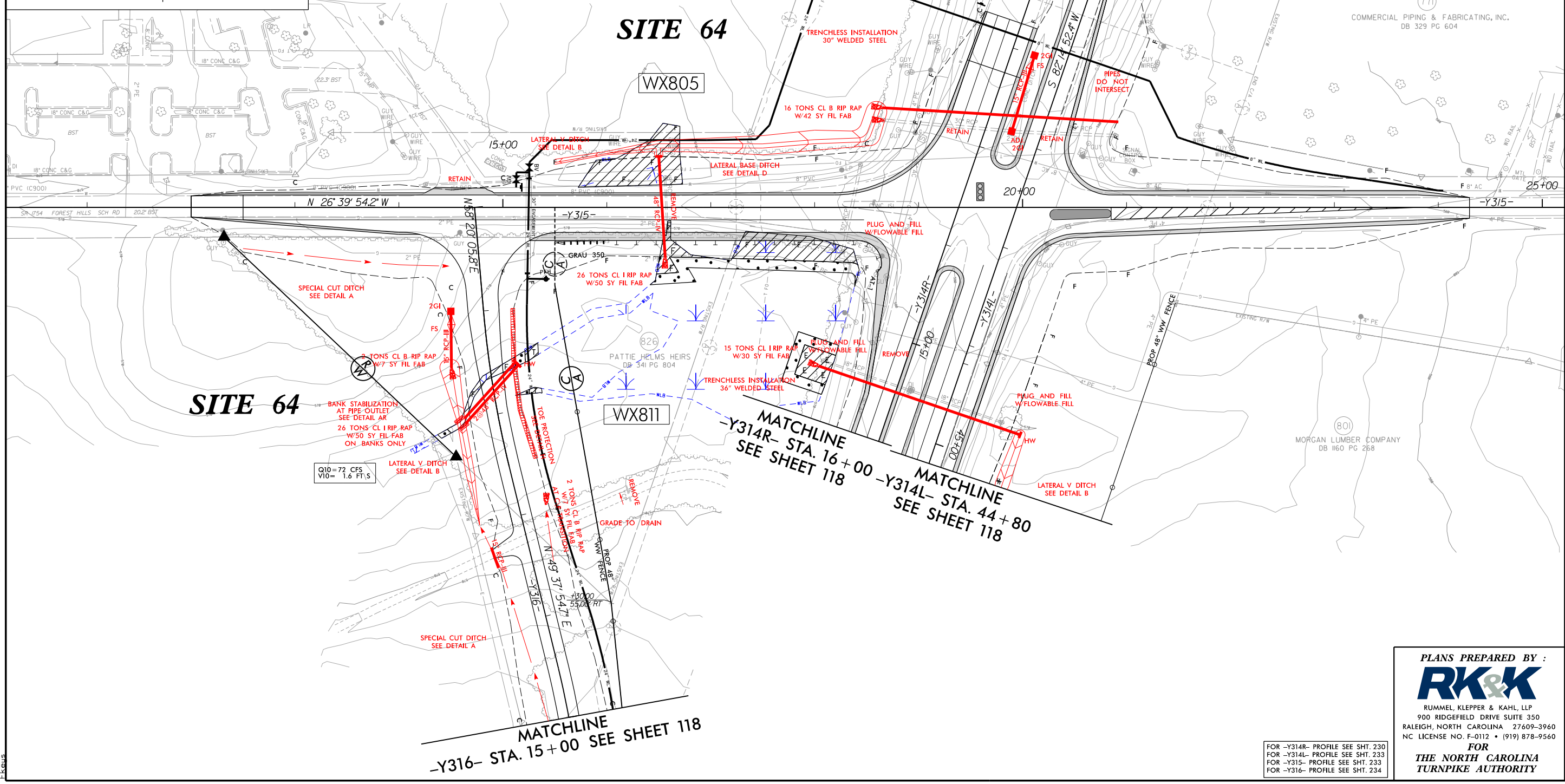
FOR  
**THE NORTH CAROLINA**  
TURNPIKE AUTHORITY

8/17/99  
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8/29/2014



**NOTES:**  
INSTALL ONE 48" RCP AT -Y316- STA. 11+76 BURIED 0.8' BELOW EXIST. WETLAND ELEVATION. INSTALL SECOND 48" RCP 1.0' ABOVE BURIED PIPE.

PROJECT REFERENCE NO. R-3329 / R-2559	SHEET NO. 119
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>PERMIT DRAWING SHEET 257 OF 267</b>	



**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**

FOR -Y314R- PROFILE SEE SHT. 230  
 FOR -Y314L- PROFILE SEE SHT. 233  
 FOR -Y315- PROFILE SEE SHT. 233  
 FOR -Y316- PROFILE SEE SHT. 234