



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

November 20, 2015

U.S. Army Corps of Engineers
Asheville Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

SUBJECT: Permit Modification Request for Section 404 Individual Permit and Section 401 Individual Water Quality Certification for the US-74 Monroe Connector/Bypass in Union and Mecklenburg Counties. STIP R-3329 and STIP R-2559, Division 10, Debit WBS Element 34533.1.TA1 in the amount of \$570.

Reference: US Army Corps of Engineers (USACE) 404 Permit issued May 8, 2015; Action ID: SAW-2009-00876
NC Division of Water Resources (NCDWR) 401 Water Quality Certification Permit issued March 6, 2015; NCDWR Project No. 02-0672 V3

Dear Ms. Amschler:

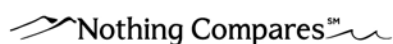
The North Carolina Department of Transportation (NCDOT), is in the process of constructing the Monroe Connector/Bypass, as authorized by the USACE and NCDWR as referenced above. We are requesting a modification in the permits for four Permit Sites: 47, 48, 54, and 57. It is anticipated that there may be additional permit revisions due to utility future relocations, which are still in preliminary design.

Revised Impacts to Waters of the U.S.:

Permit Site 47 (Revised Permit Drawings 183 and 184 of 267):

As you are aware from our correspondence on August 21, 2015, in order to improve construction access, and expedite construction in jurisdictional areas, the contractor has established a temporary bridge crossing of Rays Fork (Permit Site 47). Please note that this was inadvertently referred to as Permit Site 48 in the August 21, 2015 correspondence. The bridge details are attached (60 Foot Standard Temp Bridge Detail).

Impacts to Rays Fork were avoided, as the bridge abutments were kept approximately 10 feet away from the top of bank.



While impacts are still not anticipated, it is requested that 30 linear feet (lf) of temporary stream bank stabilization be authorized in the scenario that stream bank destabilization impacts occur during construction or bridge removal. Any bank stabilization measures will be removed and the area revegetated upon completion of construction.

Permit Site 48 (Revised Permit Drawings 183 and 184 of 267):

During the relocation of the sanitary sewer utility, two minor impact revisions are required:

1. The fill slope had to be slightly altered, as such what was initially going to be 0.01 acre of temporary fill became permanent fill, increasing that total from 0.06 to 0.07 acre.
2. There will be 0.01 acre of temporary excavation in wetlands to install the utility line. The area will be revegetated with native vegetation upon completion.

This impact is shown in the blow up on revised permit drawing 183 of 267.

Permit Site 54 (Revised Permit Drawings 213 and 214 of 267):

As noted in our correspondence on October 26, 2015, Site 54 is the crossing of Meadow Branch and the associated high quality wetland. As initially permitted, it was anticipated that it would be necessary to have 2 temporary work pads - along either side of the bridge - with work fingers extending towards the middle. However, taking the bridge design, access, and sensitive environmental conditions into consideration, the bridges can be constructed from a single work pad between the two bridges with the work fingers extending outwards.

This minimization will reduce the temporary impacts by 0.15 acre, from 0.52 to 0.37 acre.

The areas previously impacted by the work pads, will now only be impacted by hand clearing. This increases the hand clearing at Site 54 by 0.15 acre.

Permit Site 57 (Revised Permit Drawings 229 and 230 of 267).

As you are aware from our correspondence on August 21, 2015, prior to the start of construction, environmental staff re-flagged jurisdictional areas for crews to install orange construction "avoidance" fencing. At the time, Site 57 was an active pasture. At some point between flagging and fencing installation, the flagging was removed. This precipitated several other events eventually resulting in the fill of a section of the Site 57 wetland, not previously authorized for fill.

This resulted in approximately 500 ft² (<0.01 acre) of permanent wetland impacts.

Upon discovery and reporting of the error, the contractor was prepared to remove the fill and return the site to pre-construction conditions. However, after further discussion with Division 10 and the Natural Environment Section, this impact allows for an expedited construction of the adjacent permanent pipe crossing. With this consideration, it was agreed to leave the temporary fill in place, expedite construction of the pipes, and remove the fill and return the area to its natural state.

Impact Summary

The requested modifications are summarized as follows:

- Permit Site 47: Increase of 30 lf of temporary bank stabilization
- Permit Site 48: Increase of 0.01 acre of permanent wetland fill
Reduction of 0.01 acre of temporary fill in wetlands
Increase of 0.01 acre of temporary excavation in wetlands to install a utility line
- Permit Site 54: Decrease of 0.15 acre of temporary wetland impacts
Increase of 0.15 acre of hand clearing
- Permit Site 57: Increase of <0.01 acre of temporary wetland impacts

Mitigation

The only change in impacts that would require mitigation is the 0.01 acre of permanent fill at Site 48. NCDOT requests to defer the request for the additional 0.01 acre of riparian wetland mitigation until future potential impacts become finalized as these could result in the increase or reduction (avoidance) of impacts.

Regulatory Approvals

Application is hereby made for a Department of the Army Section 404 Individual Permit Modification for the above-described activities for the proposed TIP Project R-3329/2559. The revised permit drawings and impact tables are attached.

We are also hereby requesting a Section 401 Individual Water Quality Certification Modification from NCDWR. In compliance with Section 143-215.3D (e) of the NCAC, we will provide \$570.00 to act as payment for processing the Section 401 permit.

Thank you for your time and assistance with this project. Please contact Michael Turchy at either maturchy@ncdot.gov or (919) 707-6157 if you have any questions or need additional information.

Sincerely,


Richard W. Hancock, P.E., Manager

Project Development and Environmental Analysis Unit

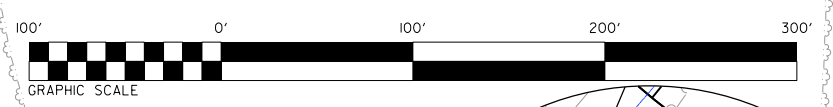
cc: NCDOT Permit Application Standard Distribution List

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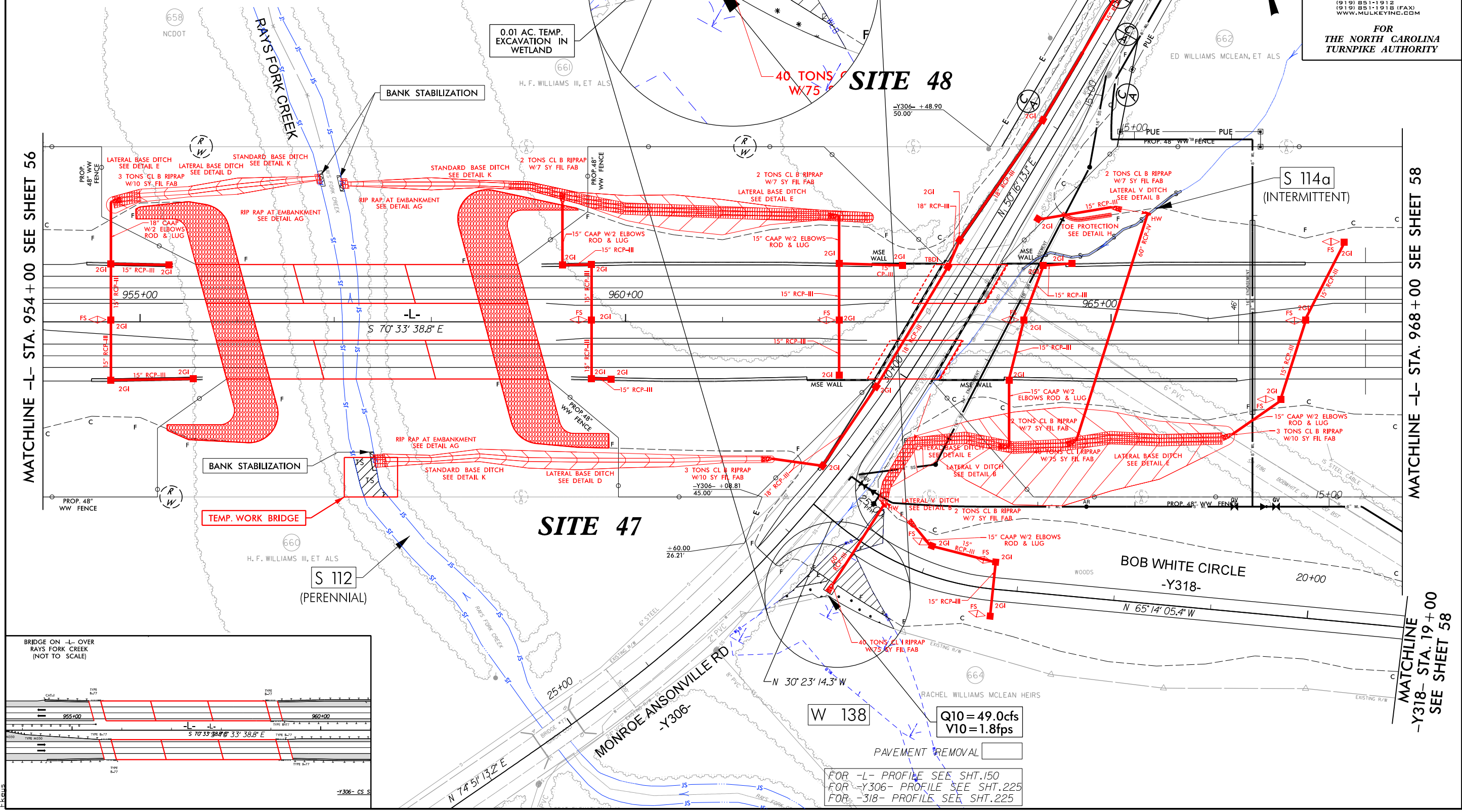
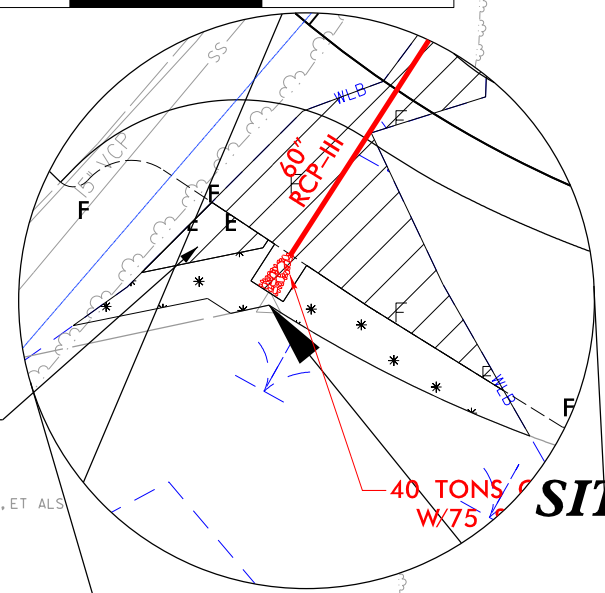
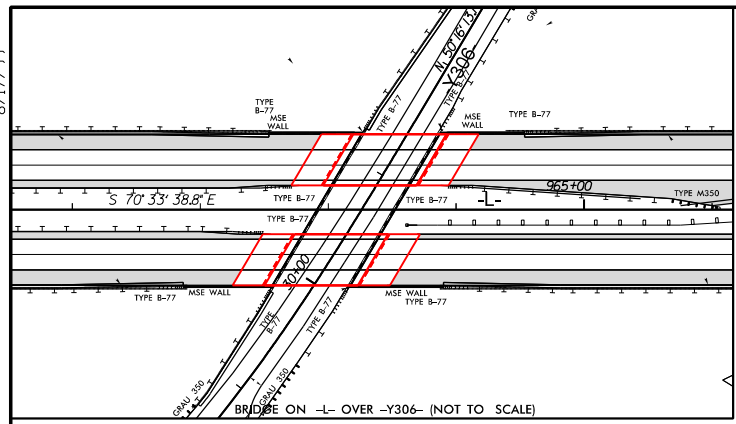
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| PROJECT REFERENCE NO. R-3329 / R-2559 | SHEET NO. 57 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION | |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

PLANS PREPARED BY:
MULKEY
ENGINEERS & CONSULTANTS
PO BOX 33127
RALEIGH, N.C. 27636
(919) 851-1912
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM
FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

PERMIT DRAWINGS
SHEET 183 OF 267
REVISED: 11/16/2015



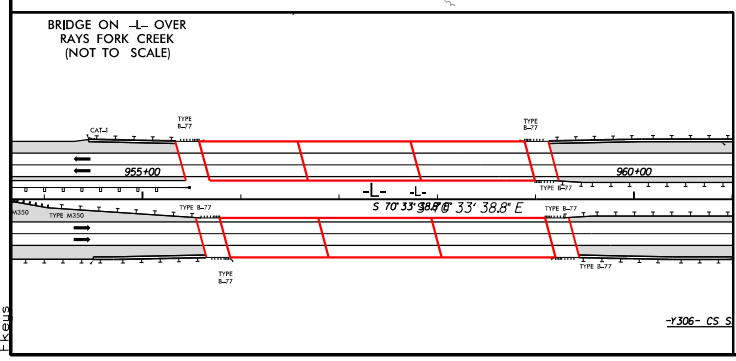
- Denotes impacts in surface water
- Denotes temporary excavation in wetland
- Denotes temporary fill in wetland
- Denotes mechanized clearing



MATCHLINE -L- STA. 954+00 SEE SHEET 56

MATCHLINE -L- STA. 968+00 SEE SHEET 58

MATCHLINE -Y318- STA. 19+00 SEE SHEET 58



FOR -L- PROFILE SEE SHT.150
FOR -Y306- PROFILE SEE SHT.225
FOR -318- PROFILE SEE SHT.225

8/17/99

| | |
|--|---------------------|
| PROJECT REFERENCE NO. R-3329 / R-2559 | SHEET NO. 57 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

PLANS PREPARED BY :

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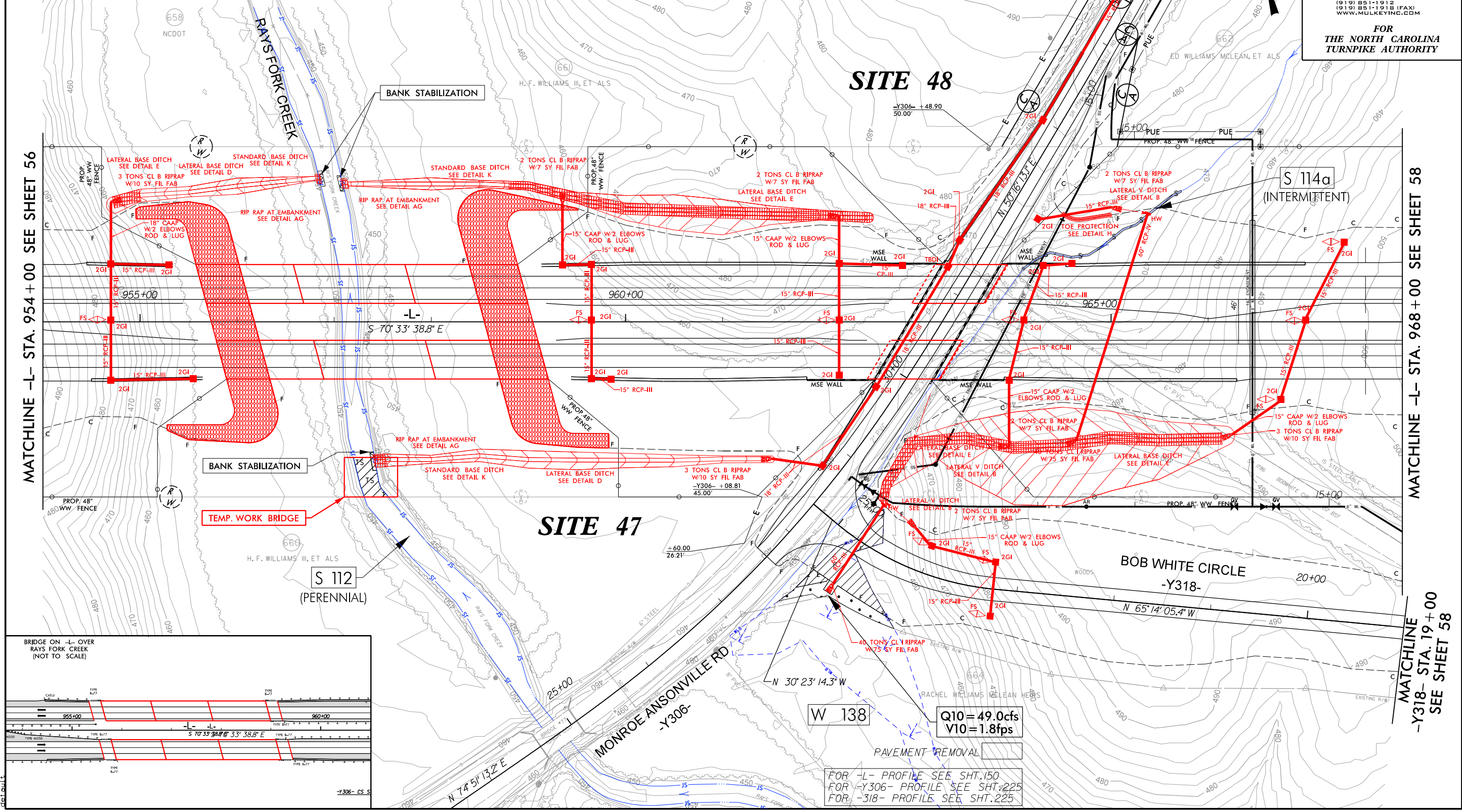
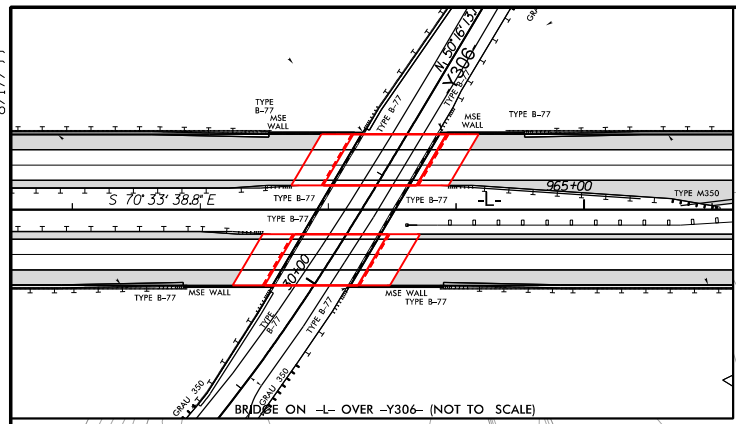
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PERMIT DRAWINGS
SHEET 184 OF 267
REVISED: 11/9/2015



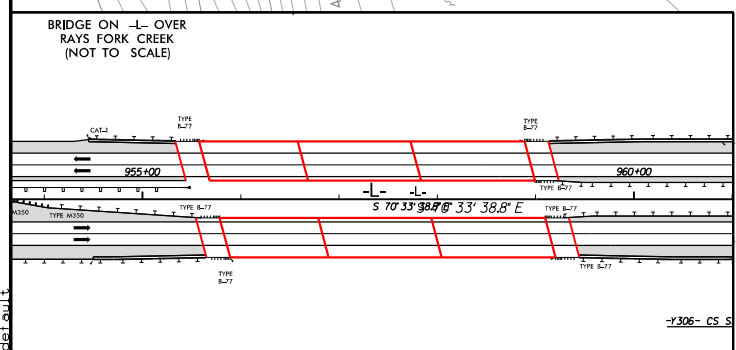
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY EXCAVATION IN WETLAND
- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES MECHANIZED CLEARING



MATCHLINE -L- STA. 954+00 SEE SHEET 56

MATCHLINE -L- STA. 968+00 SEE SHEET 58

MATCHLINE -Y318- STA. 19+00 SEE SHEET 58

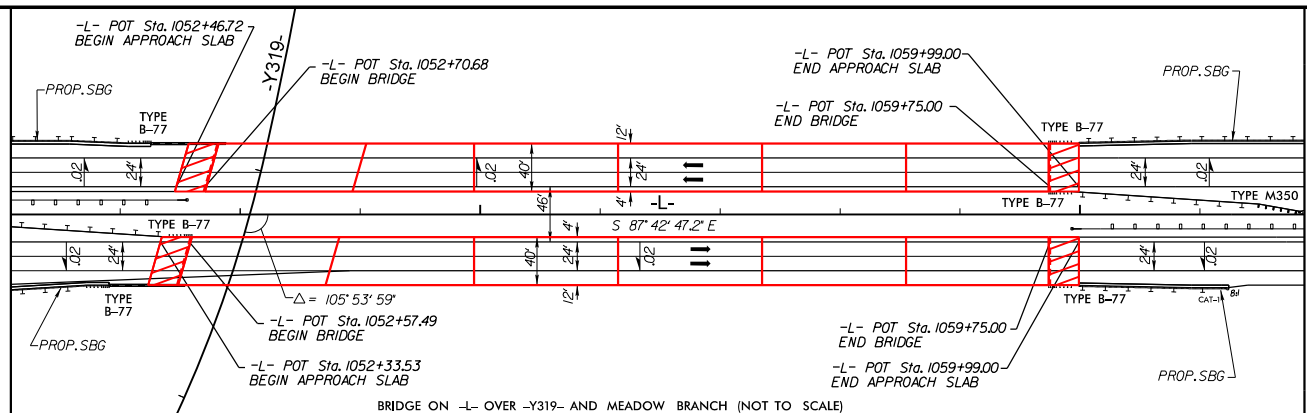
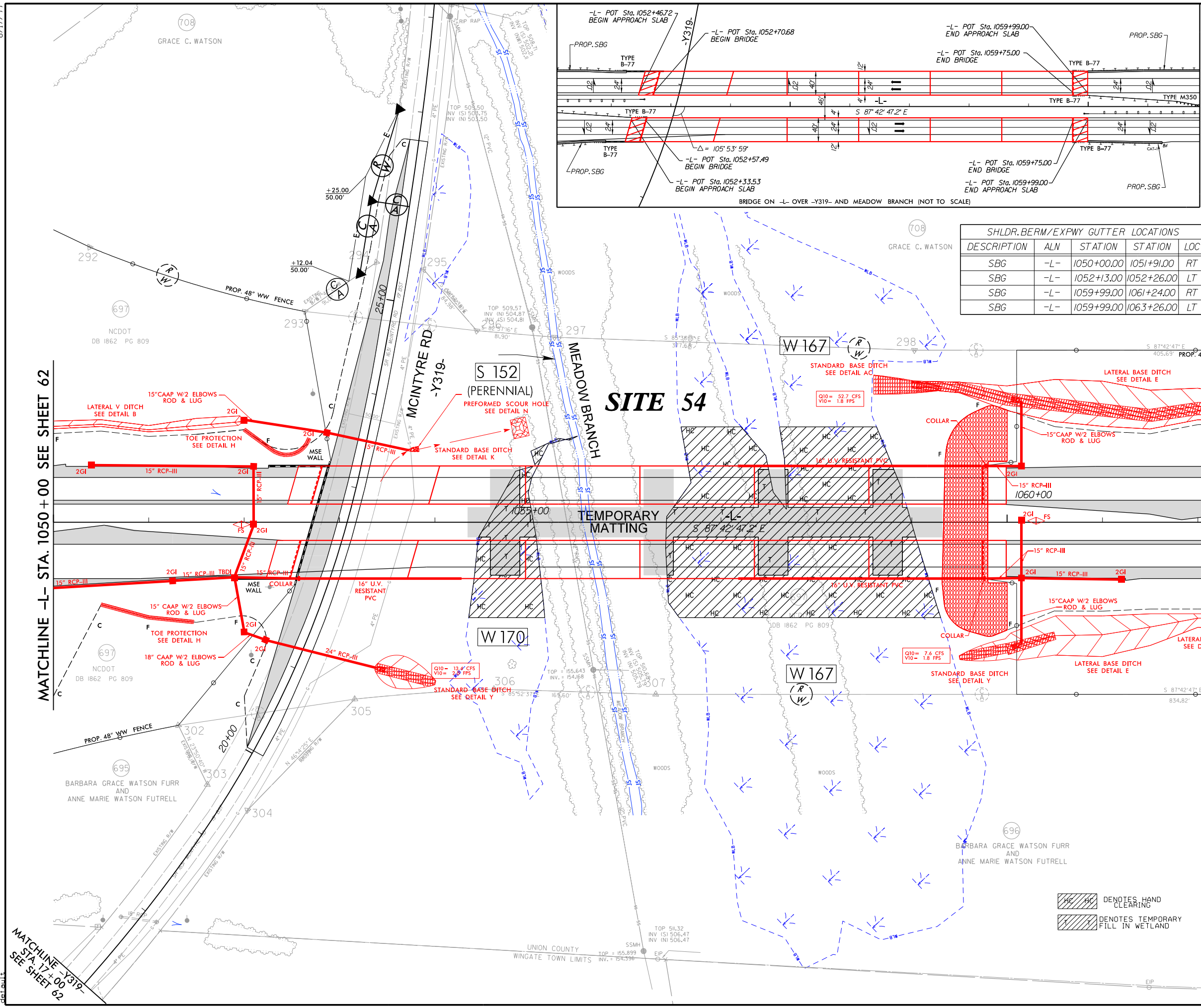


FOR -L- PROFILE SEE SHT.150
FOR -Y306- PROFILE SEE SHT.225
FOR -318- PROFILE SEE SHT.225

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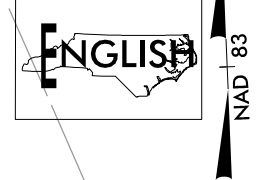
| SHLDR.BERM/EXPWY GUTTER LOCATIONS | | | | |
|-----------------------------------|-----|------------|------------|-----|
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| SBG | -L- | 1050+00.00 | 1051+91.00 | RT |
| SBG | -L- | 1052+13.00 | 1052+26.00 | LT |
| SBG | -L- | 1059+99.00 | 1061+24.00 | RT |
| SBG | -L- | 1059+99.00 | 1063+26.00 | LT |

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| PROJECT REFERENCE NO. R-3329 / R-2559 | SHEET NO. 63 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

INCOMPLETE PLANS
DO NOT USE FOR ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 213 OF 267
REVISED: 11/9/2015



MATCHLINE -L- STA. 1050 + 00 SEE SHEET 62

MATCHLINE -L- STA. 1064 + 00 SEE SHEET 64

FOR -L- PROFILE SEE SHT.153 & 154
FOR -Y319- PROFILE SEE SHT.226

PLANS PREPARED BY :

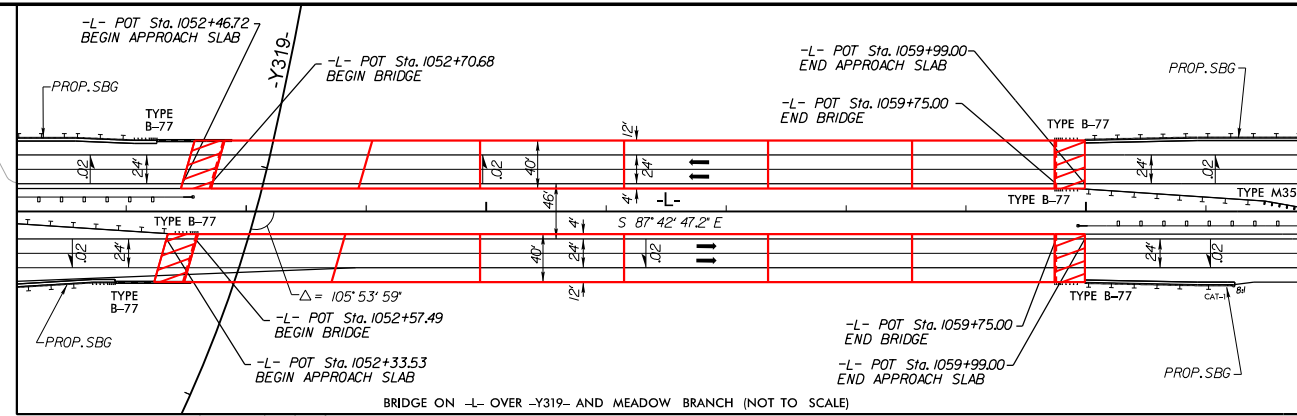
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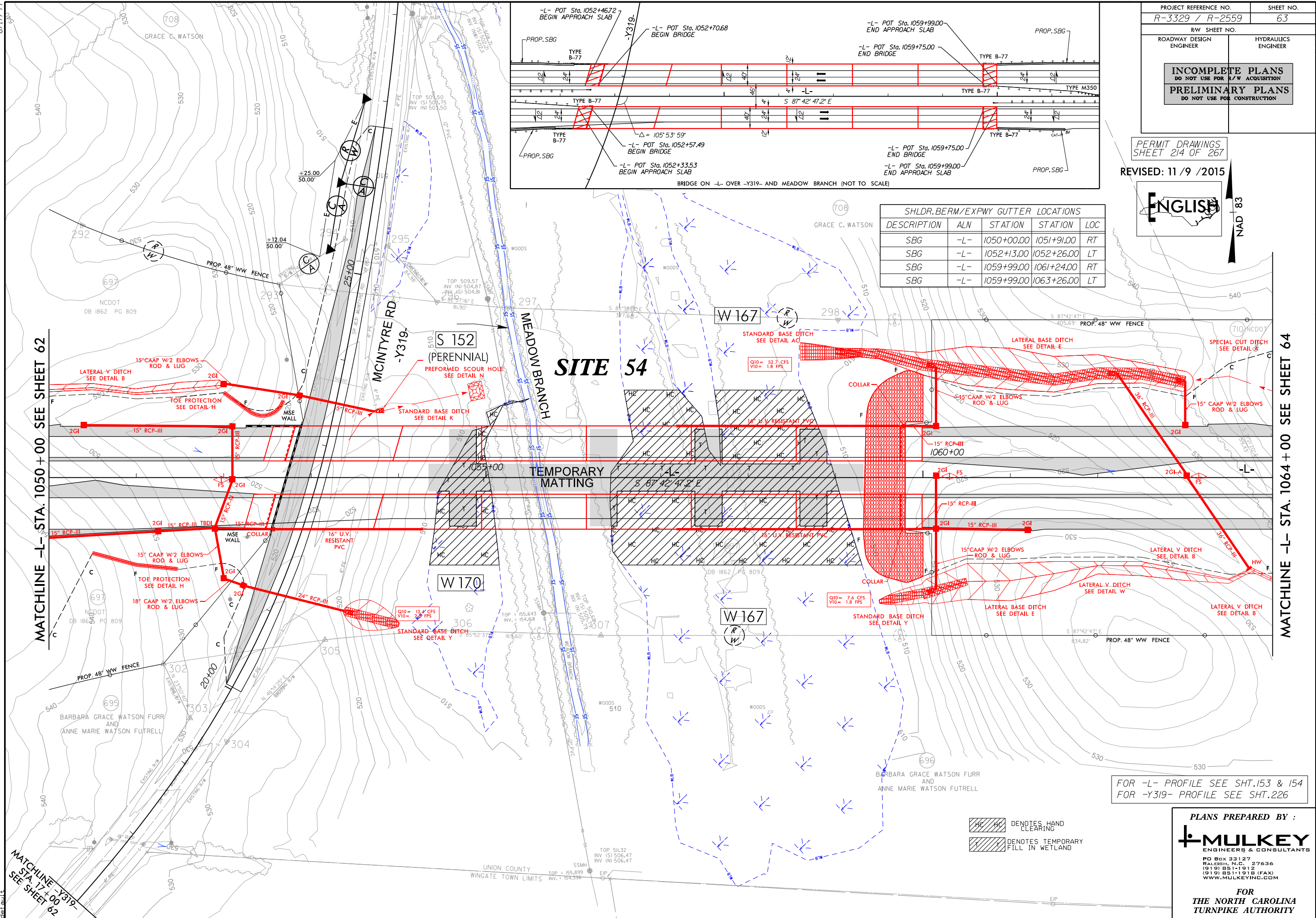
FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

PERMIT DRAWINGS
SHEET 214 OF 267

REVISED: 11/9/2015



| SHLDR. BERM/EXPWY GUTTER LOCATIONS | | | | |
|------------------------------------|-----|------------|------------|-----|
| DESCRIPTION | ALN | STATION | STATION | LOC |
| SBG | -L- | 1050+00.00 | 1051+91.00 | RT |
| SBG | -L- | 1052+13.00 | 1052+26.00 | LT |
| SBG | -L- | 1059+99.00 | 1061+24.00 | RT |
| SBG | -L- | 1059+99.00 | 1063+26.00 | LT |



MATCHLINE -L- STA. 1050+00 SEE SHEET 62

MATCHLINE -L- STA. 1064+00 SEE SHEET 64

FOR -L- PROFILE SEE SHT. 153 & 154
FOR -Y319- PROFILE SEE SHT. 226

HC HC DENOTES HAND CLEARING
 DENOTES TEMPORARY FILL IN WETLAND

PLANS PREPARED BY :

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FOR
THE NORTH CAROLINA
TURNPIKE AUTHORITY

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| PROJECT REFERENCE NO. R-3329 / R-2559 | | SHEET NO. 66 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| REVISED 11/9/2015 PERMIT DRAWING SHEET 229 OF 267 | | | |

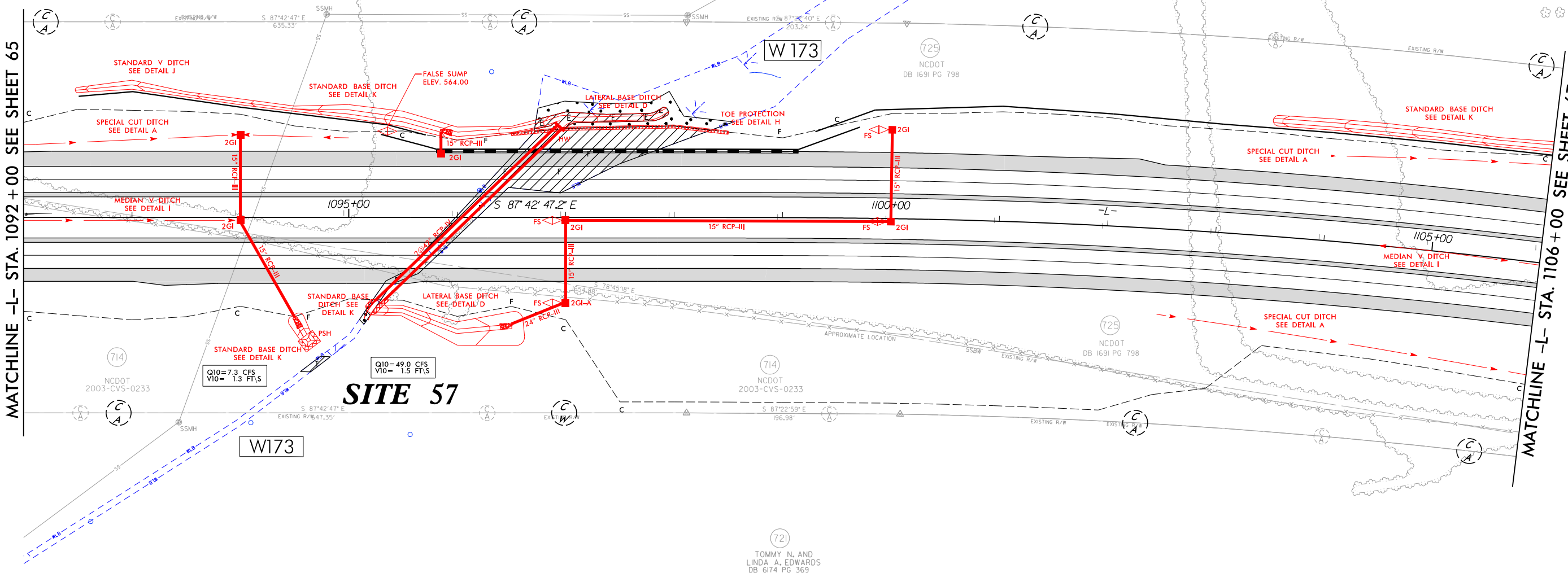


- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

NOTES:
INSTALL BOTH 42" RCPS AT -L- STA. 1096+08 AT EXIST. WETLAND ELEVATION
DO NOT BURY

MATCHLINE -L- STA. 1092 + 00 SEE SHEET 65

MATCHLINE -L- STA. 1106 + 00 SEE SHEET 67



FOR DITCH DETAILS SEE SHTS. 2E & 2F
FOR -L- PROFILE SEE SHT. 156

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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| PROJECT REFERENCE NO. R-3329 / R-2559 | SHEET NO. 66 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| REVISED 11/9/2015 PERMIT DRAWING SHEET 230 OF 267 | |

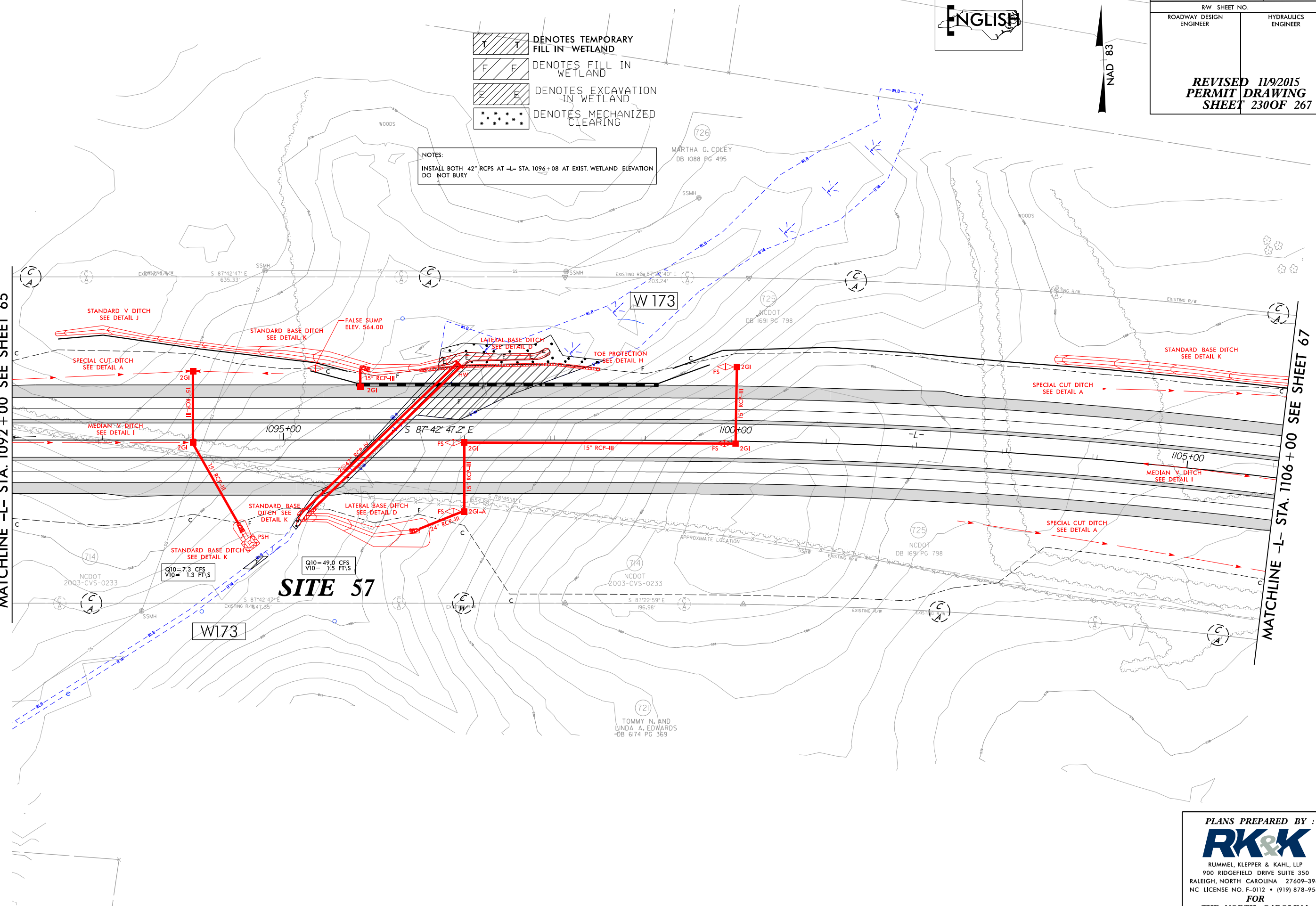


- DENOTES TEMPORARY FILL IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

NOTES:
INSTALL BOTH 42" RCPS AT -L- STA. 1096+08 AT EXIST. WETLAND ELEVATION DO NOT BURY

MATCHLINE -L- STA. 1092 + 00 SEE SHEET 65

MATCHLINE -L- STA. 1106 + 00 SEE SHEET 67



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FOR DITCH DETAILS SEE SHTS. 2E & 2F
FOR -L- PROFILE SEE SHT. 156

PLANS PREPARED BY :

RK&K

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FOR
**THE NORTH CAROLINA
TURNPIKE AUTHORITY**

WETLAND PERMIT IMPACT SUMMARY - DESIGN SECTION 3A

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | SURFACE WATER IMPACTS | | | | |
|------------------------------------|--------------------------|-----------------------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|
| | | | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| 46 | -L-942+33 to 944+18 | Bridge | | | | | | | | | | |
| | | Bank Stabilization | | | | | | <0.01 | | 38 | | |
| 47 | -L- 956+83 to 957+44 | Temp. Bridge / Bank Stabilization | | | | | | | 0.02 | | 30 | |
| | | Bank Stabilization | | | | | | <0.01 | | 43 | | |
| 48 ¹ | -Y306- 27+69 to 28+79 Rt | Roadway Fill | 0.07 | | 0.01 | 0.03 | | | | | | |
| | -Y306- 31+58 to 33+11 Rt | 60" RCP | | | | | | 0.01 | | 193 | | |
| 49 | -Y318- 16+03 to 15+65 | 9'x7' RCBC | | | | | | | <0.01 | | 20 | |
| | | Bank Stabilization | | | | | | <0.01 | | 52 | | |
| 50 | -L- 973+14 to 980+36 | 9'x7' RCBC | 0.06 | | | | | 0.09 | <0.01 | 905 | 18 | |
| | -L- 981+50 to 986+25 Lt | Roadway Fill | 0.04 | | | | | | | | | |
| 51 | -L- 1001+08 to 1003+00 | 66" RCP-III | | | | | | 0.02 | <0.01 | 115 | 20 | |
| | | Bank Stabilization | | | | | | <0.01 | | 11 | | |
| 52 | -Y308- 34+43 to 31+75 Lt | Roadway Fill | | | | | | 0.86 | <0.01 | 545 | 10 | |
| 53 | -L- 1038+42 | 2@10'x6' RCBC | | | | | | 0.10 | | 985 | | |
| | | Bank Stabilization | | | | | | 0.02 | <0.01 | 165 | 19 | |
| | | Utility Relocation | | | | | | | <0.01 | | 41 | |
| 54 ² | -L- 1055+58 to 1059+27 | Bridge | 0.01 | 0.37 | | | | | | | | 0.93 |
| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| SUBTOTAL DESIGN SECTION 3A: | | | 0.18 | 0.37 | 0.01 | 0.03 | 0.93 | 1.11 | 0.04 | 3052 | 158 | 0.00 |

Revised 11/09/2015

- ¹ Excavation in wetlands is a temporary impact for installation of utility line.
- ² Permanent Fill in Wetland impacts due to the proposed bents is 453.6 sq. ft (0.01 ac.) included above.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

UNION COUNTY
WBS - 34533.5.TA1 (R-3329/R-2559)

| WETLAND PERMIT IMPACT SUMMARY - DESIGN SECTION 3B | | | | | | | | | | | | |
|---|---|--|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|
| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | SURFACE WATER IMPACTS | | | | |
| | | | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| 55 | -L- 1074+23 | 7' x 7' RCBC | | | | | | 0.02 | | 157 | | |
| | | BANK STABILIZATION | | | | | | 0.01 | 0.01 | 80 | 39 | |
| 56 ¹ | -Y309- 19+71 | 2@48" RCP | 0.03 | | <0.01 | <0.01 | | | | | | |
| | | UTILITY IMPACTS | | <0.01 | | | | | | | | |
| 57 | -L- 1096+08 | 2@42" RCP | 0.19 | <0.01 | 0.02 | 0.06 | | | | | | |
| 58 | -L- 1122+50 Lt | FILL IN WETLANDS | 0.02 | | | 0.01 | | | | | | |
| 59 | -Y310- 23+00 Rt | BANK STABILIZATION FOR 36" RCP | | | | | | <0.01 | <0.01 | 12 | 10 | |
| 60 ² | -L- 1162+27 | 72" RCP, 10'x6' RCBC w/42" floodplain pipe | 0.64 | | 0.06 | 0.05 | | <0.01 | <0.01 | 3 | 10 | |
| 61 | -L- 1167+23 | 48" RCP | 0.08 | | | <0.01 | | | | | | |
| 62 ³ | -L- 1201+62 | Extend 2@7'x7' RCBC w/ 2@8'x8' RCBC | 0.01 | | | 0.01 | | <0.01 | | 37 | | |
| | | BANK STABILIZATION | | | | | | 0.01 | <0.01 | 102 | 20 | |
| | | UTILITY IMPACTS | | 0.03 | | | | | | | | |
| 63 | -Y314R- 25+85 Rt | 30" RCP | 0.04 | | | 0.02 | | | | | | |
| 64 ⁴ | -Y315- 16+53 -Y316- 11+76 -Y314R-15+50 RT | 48" RCP 2@48" RCP 36" STEEL | 0.14 | | 0.02 | 0.08 | | | | | | |
| | | UTILITY IMPACTS | 0.03 | <0.01 | | | | | | | | |
| SUBTOTAL DESIGN SECTION 3B: | | | 1.17 | 0.04 | 0.11 | 0.23 | 0.00 | 0.04 | 0.01 | 391 | 79 | |

*Rounded totals are the sum of actual impacts

¹ Temporary fill impacts include excavation of utility trench and backfill as well as equipment crossing during construction

² Excavation in wetlands includes 1170.4 sf (0.03 ac) of temporary excavation for bypass channel during construction

³ Temporary fill impacts include excavation of utility trench and backfill as well as equipment crossing during construction

⁴ Temporary fill impacts include excavation of utility trench and backfill as well as equipment crossing during construction

Revised 11/9/2015

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

UNION COUNTY
WBS - 34533.5.TA1 (R-3329/2559)

WETLAND PERMIT IMPACT SUMMARY - PROJECT TOTALS

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | SURFACE WATER IMPACTS | | | | |
|----------|----------------------------|-----------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|
| | | | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | SUBTOTAL DESIGN SECTION 1 | | 1.12 | 0.00 | 0.00 | 0.17 | 0.00 | 0.22 | 0.01 | 1913 | 86 | |
| | SUBTOTAL DESIGN SECTION 2A | | 0.24 | 0.03 | 0.02 | 0.05 | 0.00 | 0.47 | 0.02 | 2037 | 201 | |
| | SUBTOTAL DESIGN SECTION 2B | | 0.19 | 0.04 | 0.00 | 0.02 | 0.00 | 0.39 | 0.02 | 3780 | 247 | |
| | SUBTOTAL DESIGN SECTION 2C | | 2.78 | 0.00 | 0.00 | 0.31 | 0.00 | 1.73 | 0.04 | 4322 | 293 | |
| | SUBTOTAL DESIGN SECTION 3A | | 0.18 | 0.37 | 0.01 | 0.03 | 0.93 | 1.11 | 0.04 | 3052 | 158 | |
| | SUBTOTAL DESIGN SECTION 3B | | 1.17 | 0.04 | 0.11 | 0.23 | 0.00 | 0.04 | 0.01 | 391 | 79 | |
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| | PROJECT TOTAL: | | 5.67 | 0.47 | 0.14 | 0.80 | 0.93 | 3.95 | 0.14 | 15495 | 1064 | |

*Rounded totals are the sum of actual impacts

Revised: 11/9/2015

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

UNION COUNTY
WBS - 34533.5.TA1 (R-3329/2559)

SHEET 267 of 267 9/30/2014