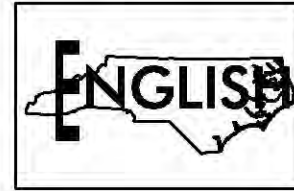


09/26/99

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheets 1-C Thru 1-G For Survey Control Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
JONES COUNTY



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2514C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34442.1.4		PE	

PERMIT DRAWING
 SHEET 1 OF 62

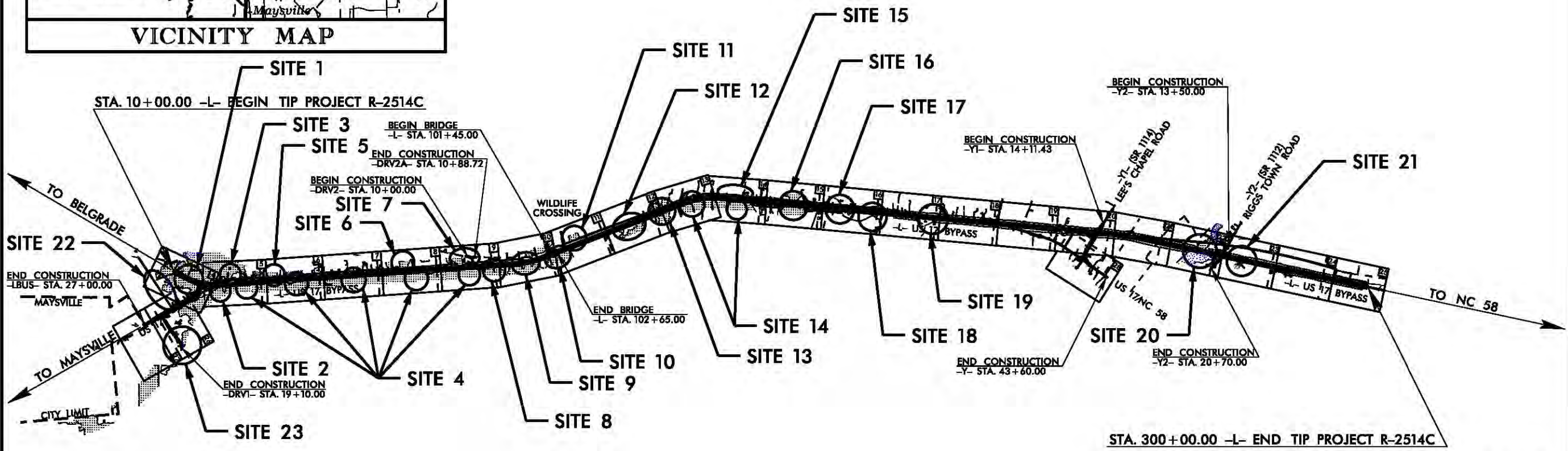
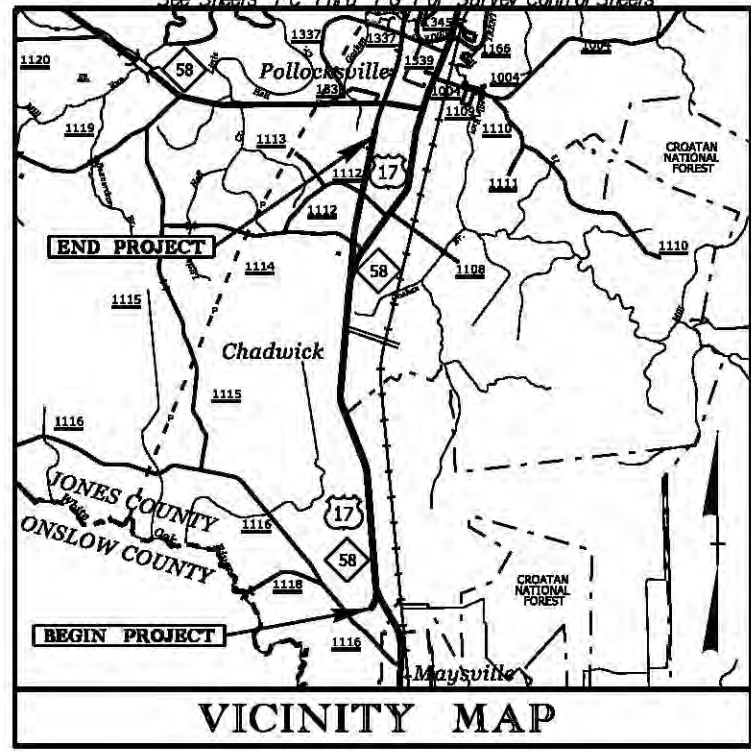
LOCATION: US 17 FROM NORTH OF MAYSVILLE TO SOUTH OF NC 58 NEAR POLLOCKSVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
 AND STRUCTURES

WETLAND AND SURFACE WATER IMPACTS PERMIT



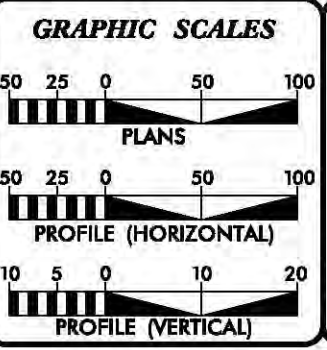
TIP PROJECT: R-2514C



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
 THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING AT DESIGNATED POINTS ONLY.
 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO LIMITS ESTABLISHED BY METHOD III.

INCOMPLETE PLANS
 DO NOT USE FOR R/W ACQUISITION
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

ADT 2015	=	12,000
ADT 2035	=	17,700
DHV	=	12 %
D	=	60 %
T	=	9 % *
V	=	60 MPH
* TTST	=	5 % DUAL=4 %
FUNC CLASS	=	EXPRESSWAY
STATEWIDE TIER		

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2514C	=	5.469 MILES
LENGTH STRUCTURE OF TIP PROJECT R-2514C	=	0.023 MILES
TOTAL LENGTH OF TIP PROJECT R-2514C	=	5.492 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 21, 2013

LETTING DATE: JUNE 16, 2015

JAMES A. SPEER, PE
 PROJECT ENGINEER

DANIEL W. GARDNER, JR., PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

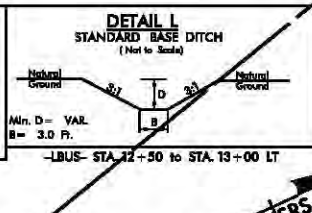
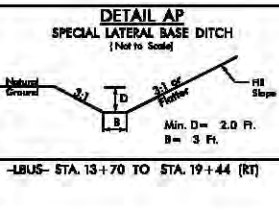
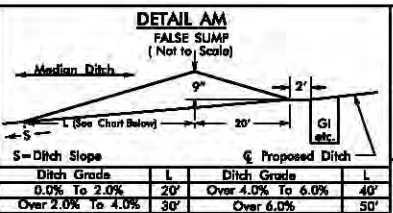
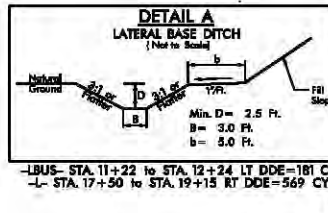
SIGNATURE: _____ P.E.



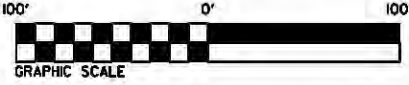
2/6/2014
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 \$\$\$CDN\$\$\$\$\$
 \$\$\$SERNAME\$\$\$\$\$

8/17/99



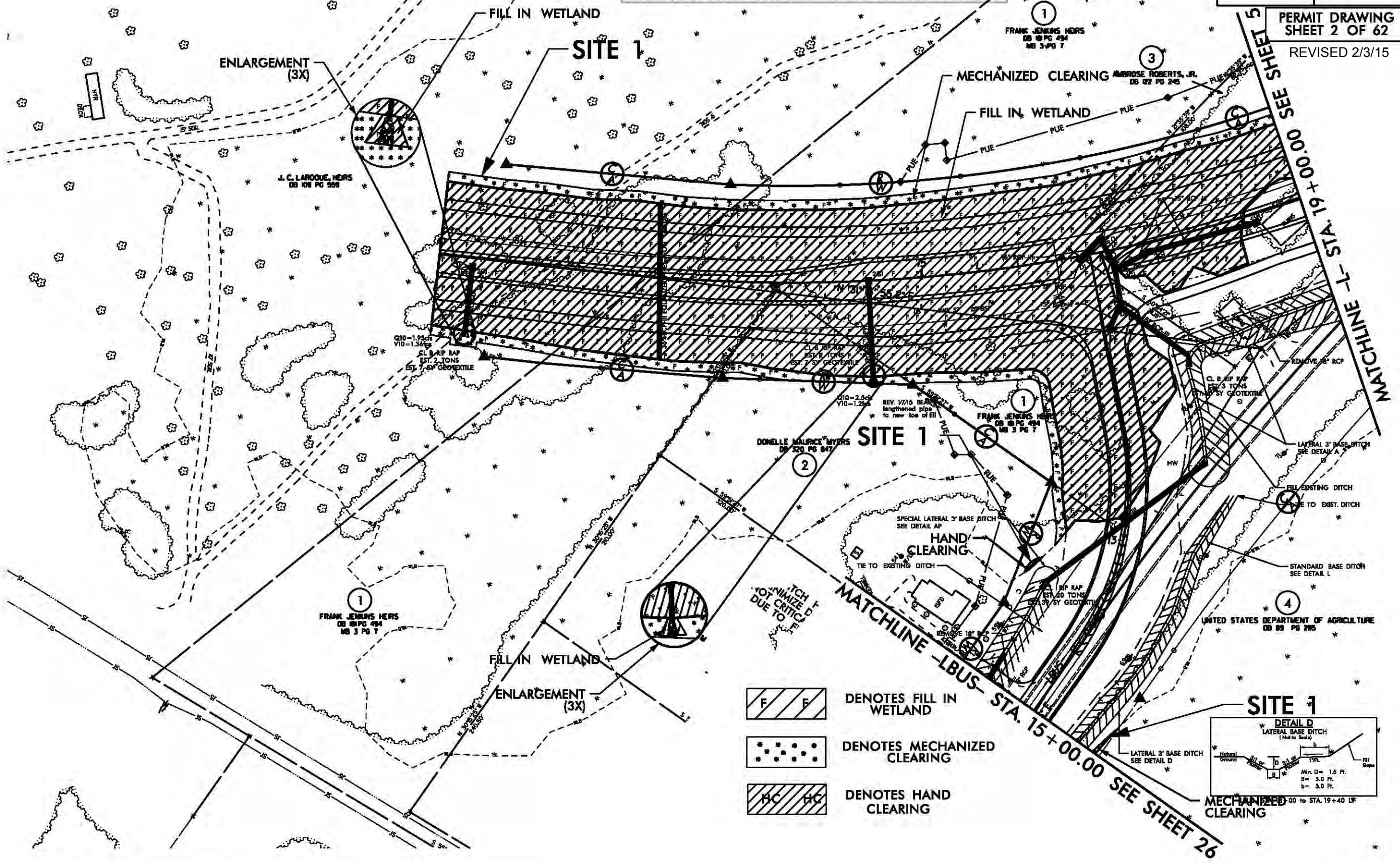
PROJECT REFERENCE NO. R-2514C	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



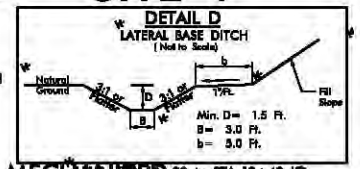
WETLAND AND SURFACE WATER IMPACTS PERMIT



PERMIT DRAWING
SHEET 2 OF 62
REVISED 2/3/15



- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES HAND CLEARING



12/02/2015
bearderson
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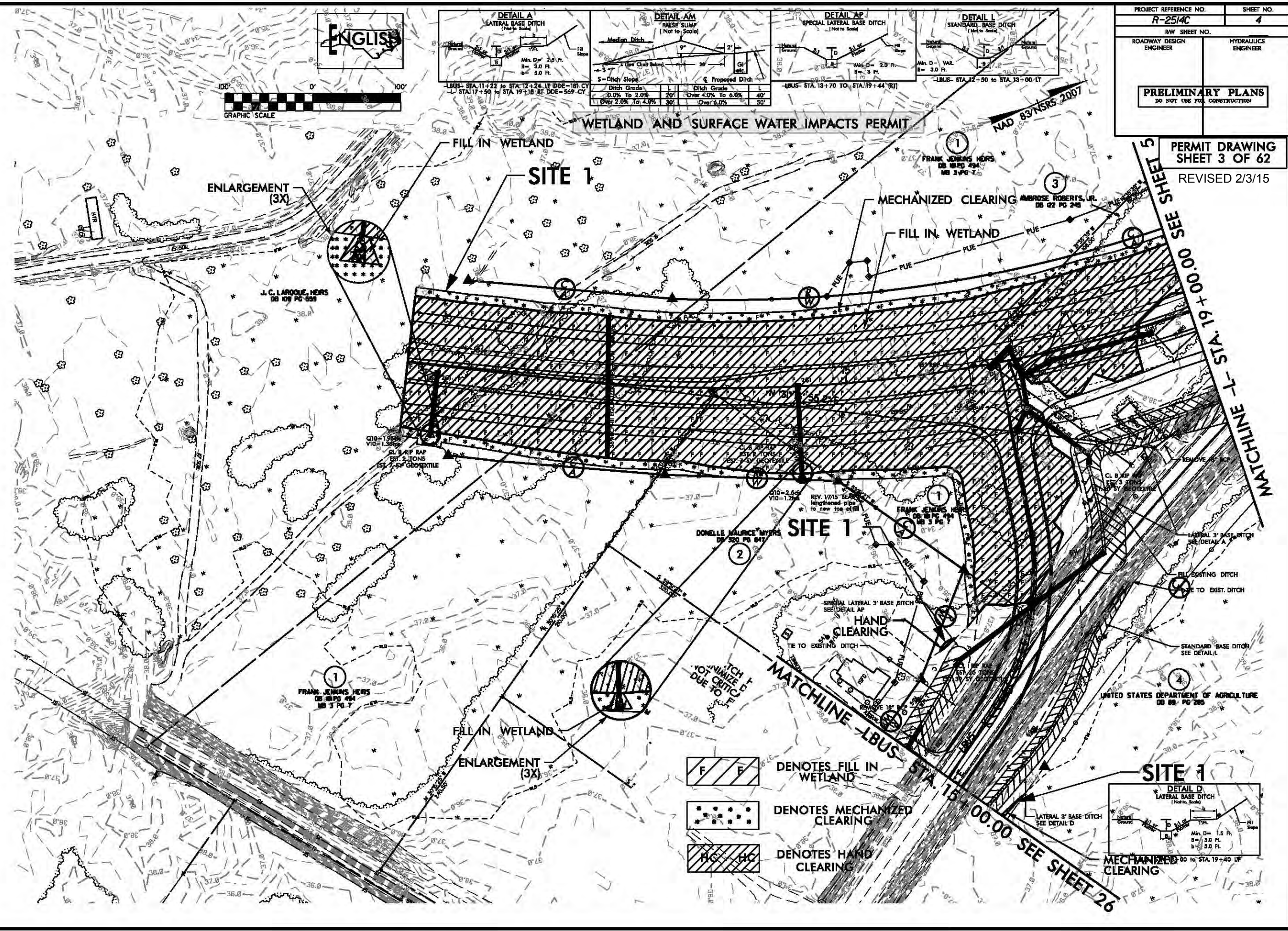
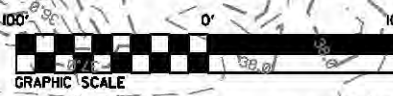
REVISIONS

*****SYTIME*****
*****UNISS*****

PROJECT REFERENCE NO. R-2514C	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 3 OF 62
REVISED 2/3/15

DETAIL A LATERAL BASE DITCH (Not to Scale)	DETAIL AM PAUSE SUMP (Not to Scale)	DETAIL AP SPECIAL LATERAL BASE DITCH (Not to Scale)	DETAIL I STANDARD BASE DITCH (Not to Scale)												
<table border="1"> <tr> <th>Ditch Slope</th> <th>Ditch Grade</th> <th>Proposed Ditch</th> </tr> <tr> <td>0.0% To 2.0%</td> <td>20'</td> <td>Over 4.0% To 6.0%</td> </tr> <tr> <td>Over 2.0% To 4.0%</td> <td>30'</td> <td>Over 6.0%</td> </tr> <tr> <td></td> <td></td> <td>50'</td> </tr> </table>		Ditch Slope	Ditch Grade	Proposed Ditch	0.0% To 2.0%	20'	Over 4.0% To 6.0%	Over 2.0% To 4.0%	30'	Over 6.0%			50'	<p>—LBUS— STA. 11+22 to STA. 12+24 LT DDE=181 CY —L— STA. 17+50 to STA. 19+18 RT DDE=569 CY</p> <p>—LBUS— STA. 13+70 TO STA. 19+44 (RT)</p> <p>—LBUS— STA. 12+50 to STA. 13+00 LT</p>	
Ditch Slope	Ditch Grade	Proposed Ditch													
0.0% To 2.0%	20'	Over 4.0% To 6.0%													
Over 2.0% To 4.0%	30'	Over 6.0%													
		50'													



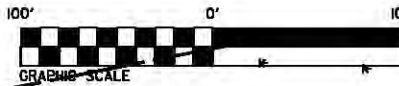
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES HAND CLEARING

DETAIL D LATERAL BASE DITCH (Not to Scale)
<p>—LBUS— STA. 15+00.00 to STA. 19+40 LF</p>

1/10/2015
 beanderson
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REVISIONS

*****SYTIME*****
 *****SYTIME*****
 *****SYTIME*****

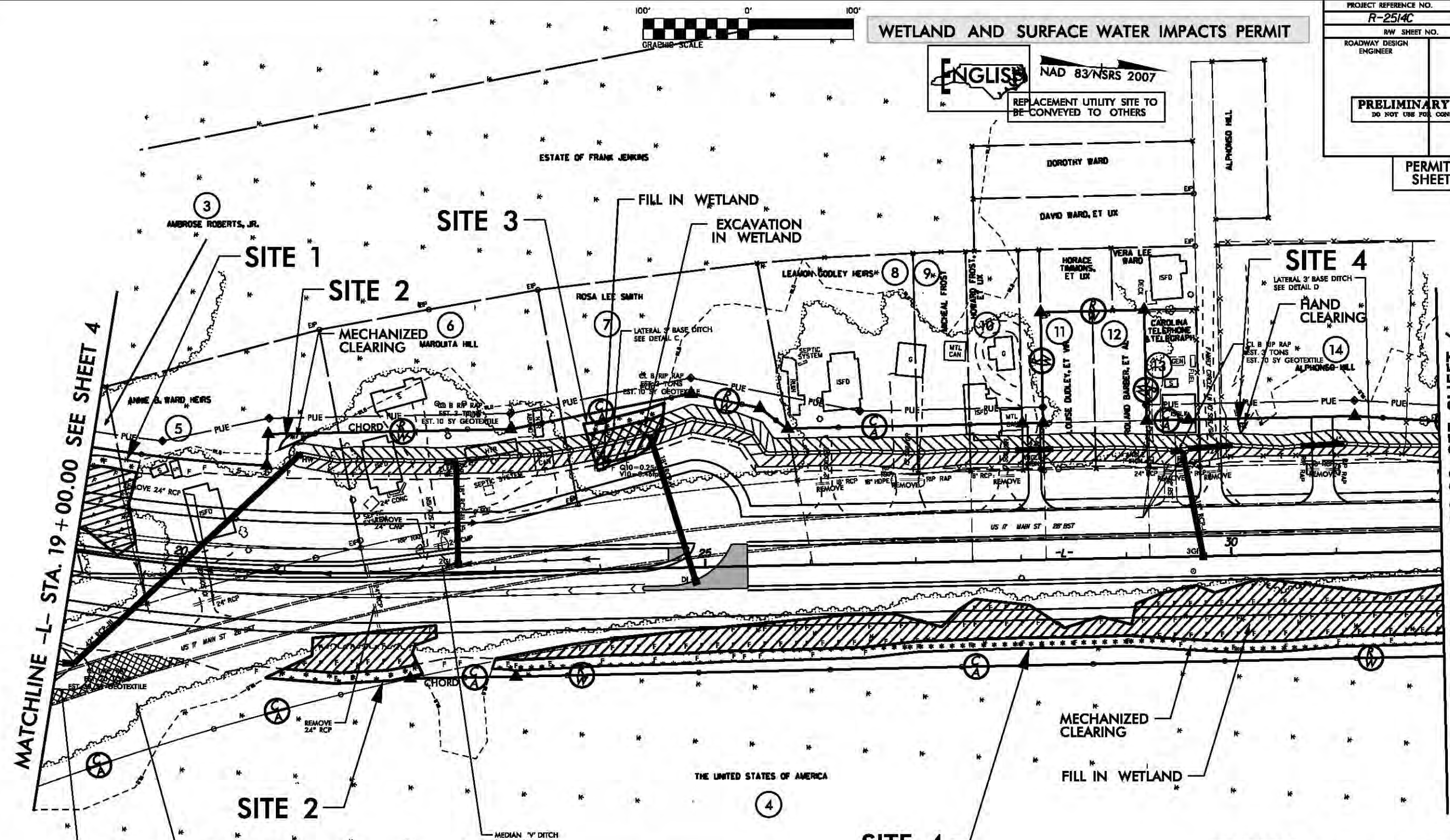


WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 7 OF 62

ENGLISH
NAD 83/NSRS 2007
REPLACEMENT UTILITY SITE TO BE CONVEYED TO OTHERS



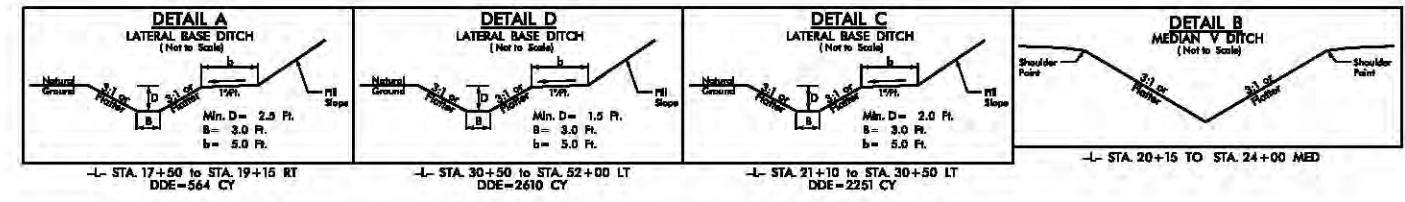
MATCHLINE -L- STA. 19 + 00.00 SEE SHEET 4

MATCHLINE -L- STA. 32 + 00.00 SEE SHEET 6

-L-

Pi Sta 16+95.31	Pis Sta 21+57.81
$\Delta = 27^{\circ} 14' 57.6"$ (LT)	$\theta_s = 4^{\circ} 11' 32.5"$
$D = 3^{\circ} 29' 37.1"$	$L_s = 240.00'$
$L = 779.97'$	$LT = 1600.4'$
$T = 397.51'$	$ST = 800.4'$
$R = 1640.00'$	
$SE = .06$	
$RO = 240'$	

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



4/23/2014
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 REVISIONS
 R/W REVISION 04/25/13 (DWG) - R/W REVISION TO TAKE ENTIRE PROPERTY OF PARCEL II (LOUISE DUDLEY, ET VIRI) AND PARCEL 12 (ROLAND BARBER, ET AL) AND THE PUE WAS ELIMINATED FROM THESE TWO PARCELS.

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

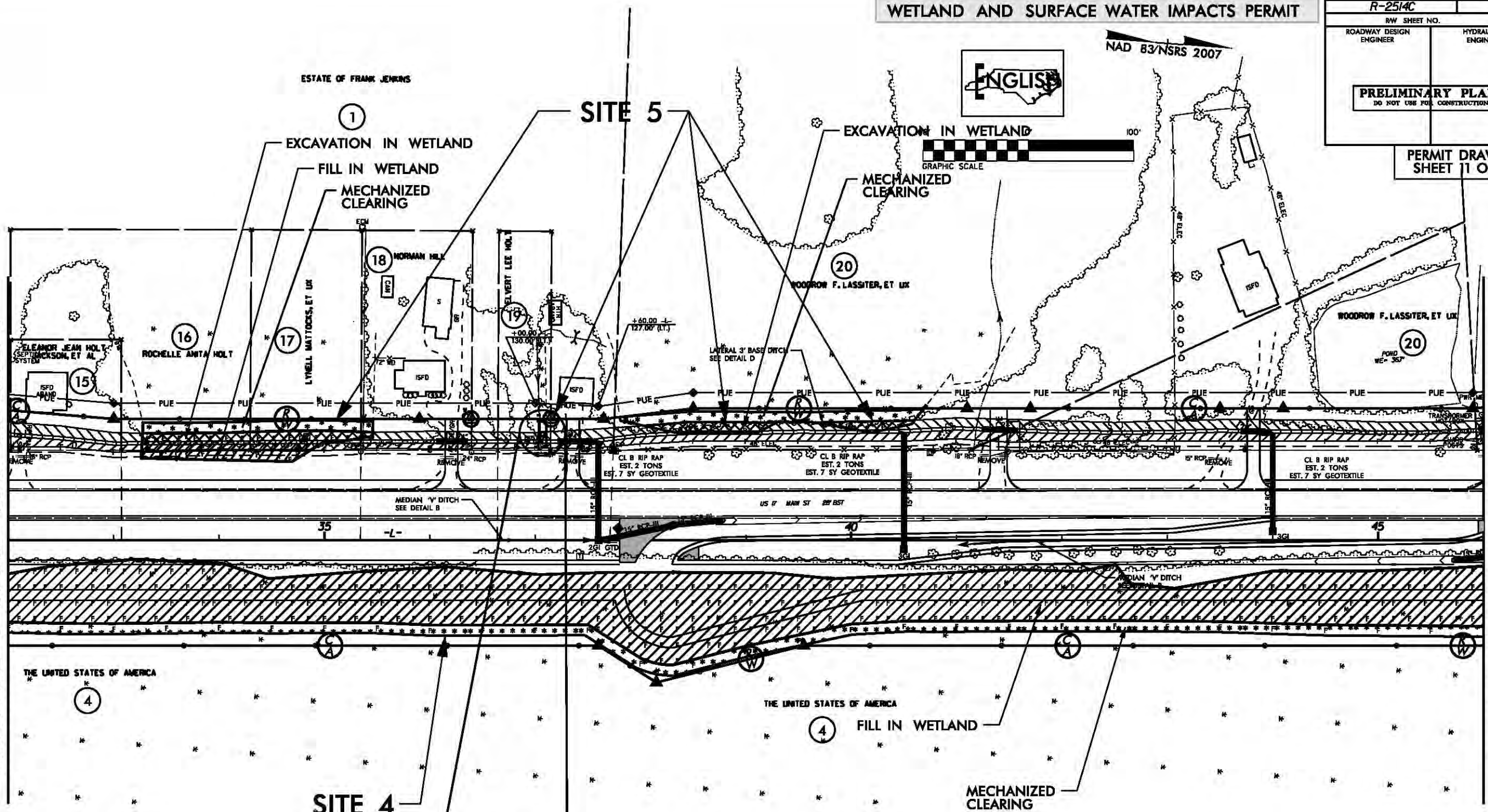
PERMIT DRAWING SHEET 11 OF 62

NAD 83/NSRS 2007



MATCHLINE -L- STA. 32 + 00.00 SEE SHEET 5

MATCHLINE -L- STA. 46 + 00.00 SEE SHEET 7



MATCHLINE -L- STA. 32 + 00.00 SEE SHEET 5

MATCHLINE -L- STA. 46 + 00.00 SEE SHEET 7

SITE 4

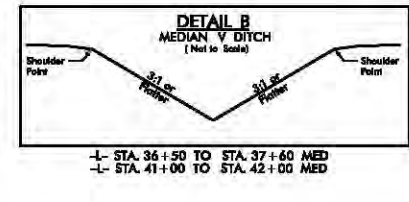
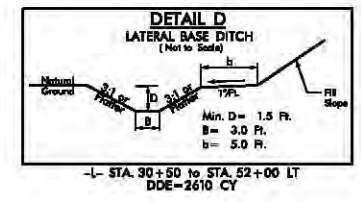
FILL IN WETLAND

MECHANIZED CLEARING

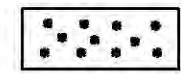
MECHANIZED CLEARING

EXCAVATION IN WETLAND

ENLARGEMENT 3X



DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING



DENOTES EXCAVATION IN WETLAND

4/23/2014
epailler
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REVISIONS

R/W REVISION 01-06-14 (DNG) - REVISED THE R/W/C/A AND PUE ON PARCEL 19 (ESTATE OF FRANK JENKINS) PARCEL 19 (ELVERT LEE HOLT) AND PARCEL 20 (WOODROW F. LASSITER, ET UX) TO AVOID THE HOME LOCATED AT -L- STA. 37 + 40.00 LT.

8/17/99

*****SYSTEM*****
*****08/17/99*****
*****8:00 AM*****

4/23/2014
epesiler
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REVISIONS

R/W REVISION 01-06-14 (DNG) - REVISED THE R/W/C/A AND PUE ON PARCEL 19 (ESTATE OF FRANK JENKINS) PARCEL 19 (ELVERT LEE HOLT) AND PARCEL 20 (WOODROW F. LASSITER, ET UX) TO AVOID THE HOME LOCATED AT "L" STA. 37+40.00 LT.

*****SYSTEM*****
*****UNASSIGNED*****

8/17/99

MATCHLINE -L- STA. 32 + 00.00 SEE SHEET 5

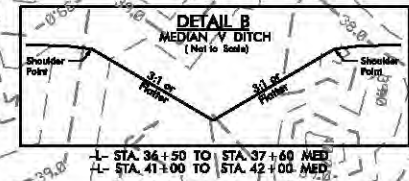
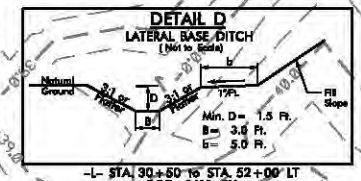
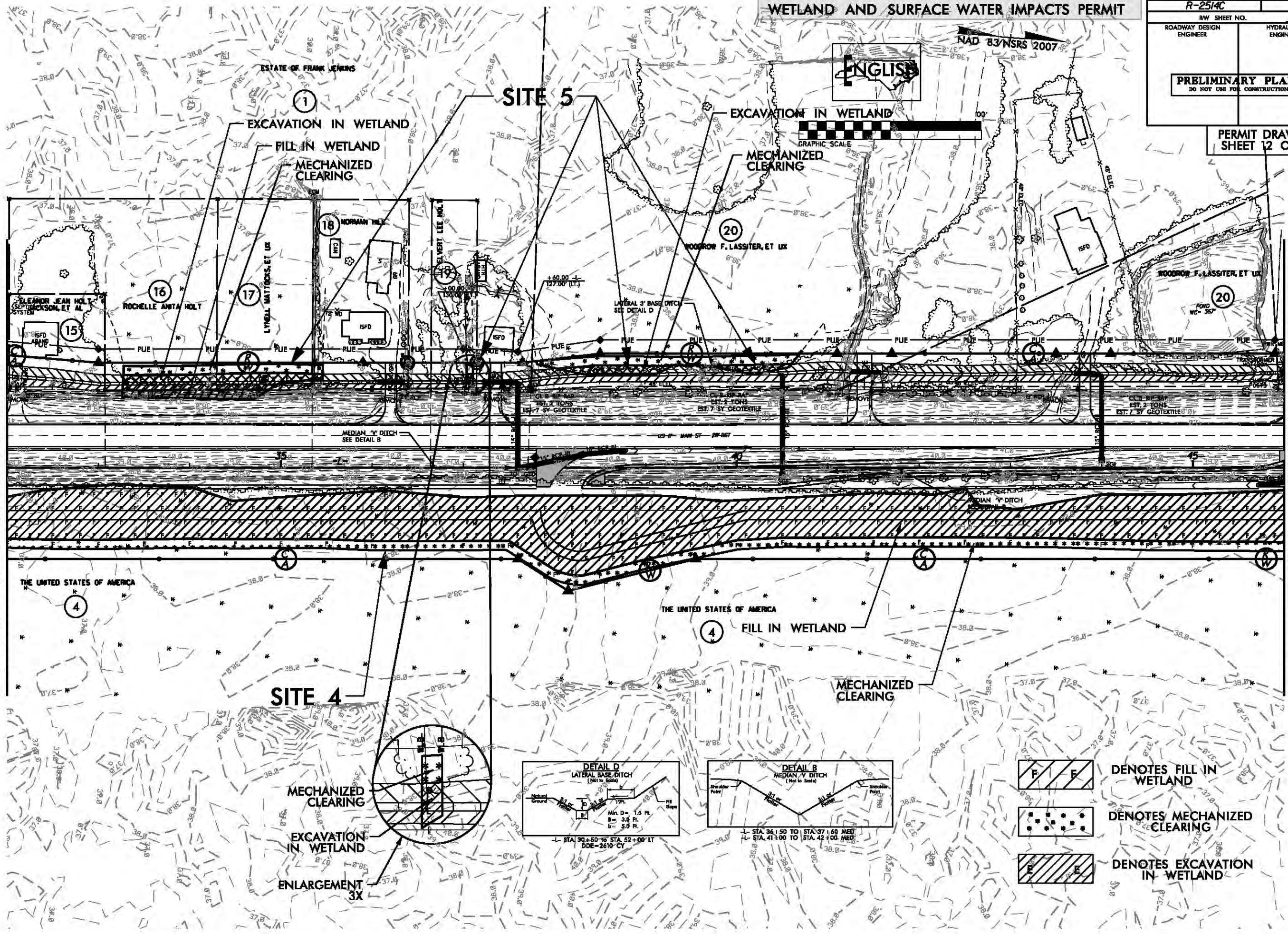
MATCHLINE -L- STA. 46 + 00.00 SEE SHEET 7

WETLAND AND SURFACE WATER IMPACTS PERMIT

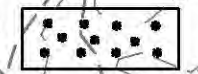
PROJECT REFERENCE NO. R-2514C	SHEET NO. 6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 12 OF 62



DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING



DENOTES EXCAVATION IN WETLAND

PROJECT REFERENCE NO. R-2514C	SHEET NO. 7
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

WETLAND AND SURFACE WATER IMPACTS PERMIT



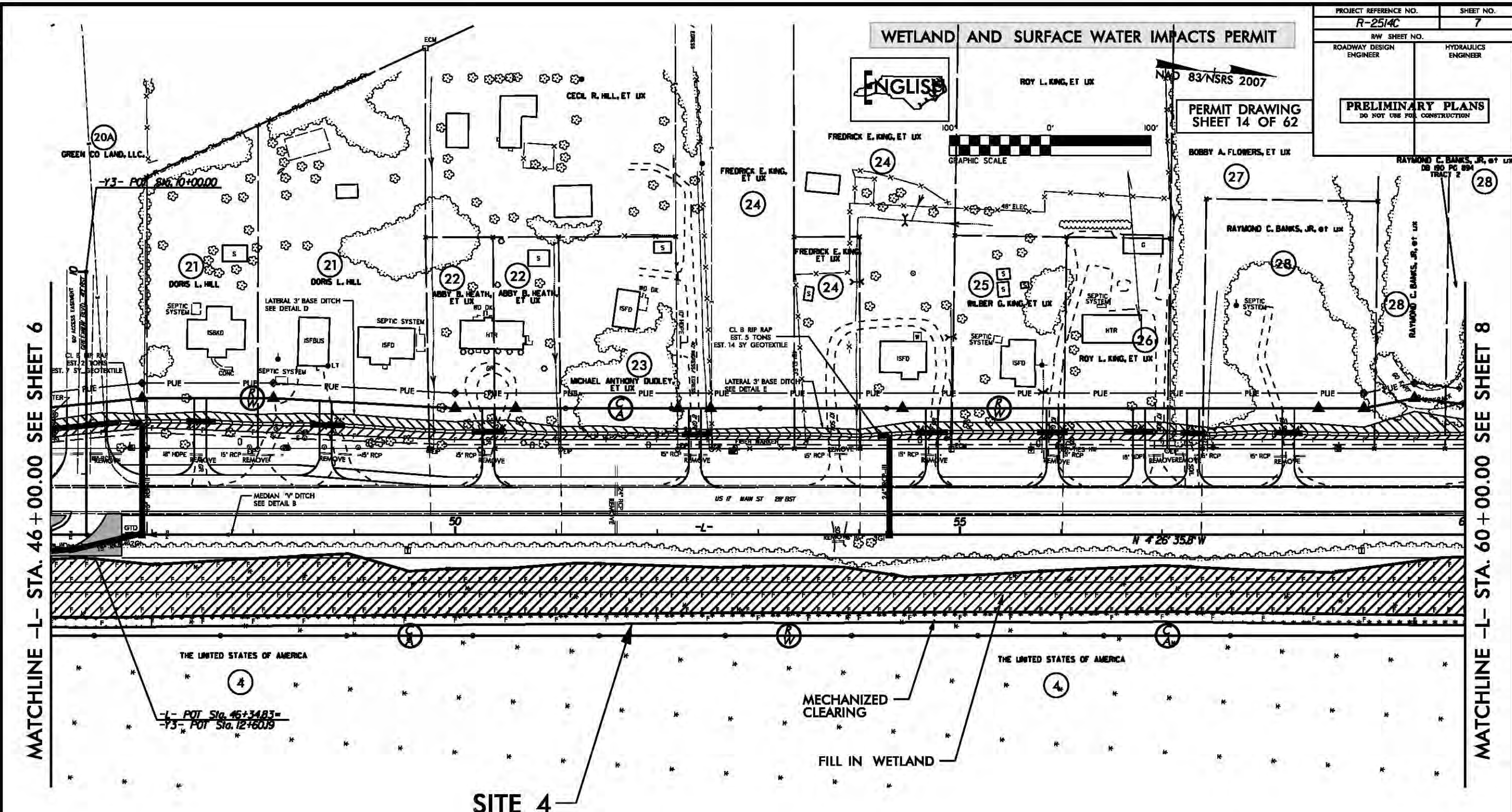
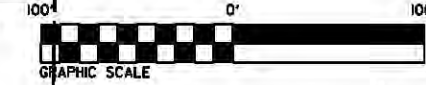
ROY L. KING, ET UX

NAD 83/NRS 2007

PERMIT DRAWING
SHEET 14 OF 62

BOBBY A. FLOWERS, ET UX

RAYMOND C. BANKS, JR., ET UX
DB 80 PG 894
TRACT 2



MATCHLINE -L- STA. 46+00.00 SEE SHEET 6

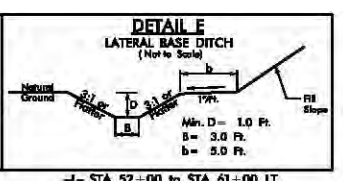
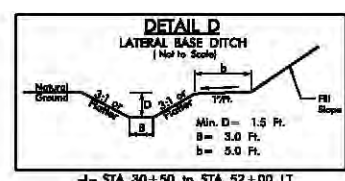
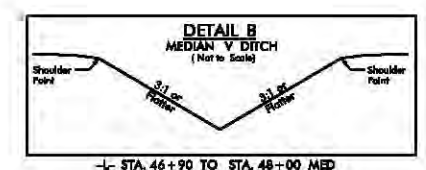
MATCHLINE -L- STA. 60+00.00 SEE SHEET 8

SITE 4

-L- POT Sta. 46+34.83 -
-Y3- POT Sta. 42+60.19

MECHANIZED
CLEARING

FILL IN WETLAND



DENOTES FILL IN
WETLAND



DENOTES MECHANIZED
CLEARING

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REVISIONS

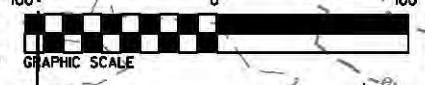
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*****08/17/99*****

PROJECT REFERENCE NO.	SHEET NO.
R-2514C	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
DO NOT USE FOR CONSTRUCTION	

WETLAND AND SURFACE WATER IMPACTS PERMIT

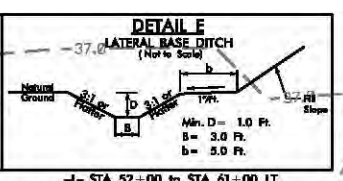
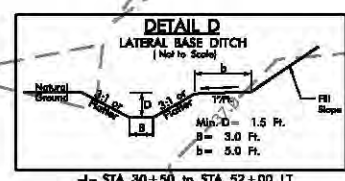
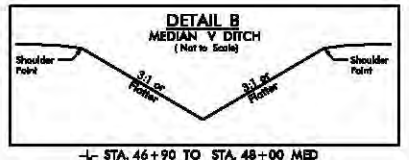
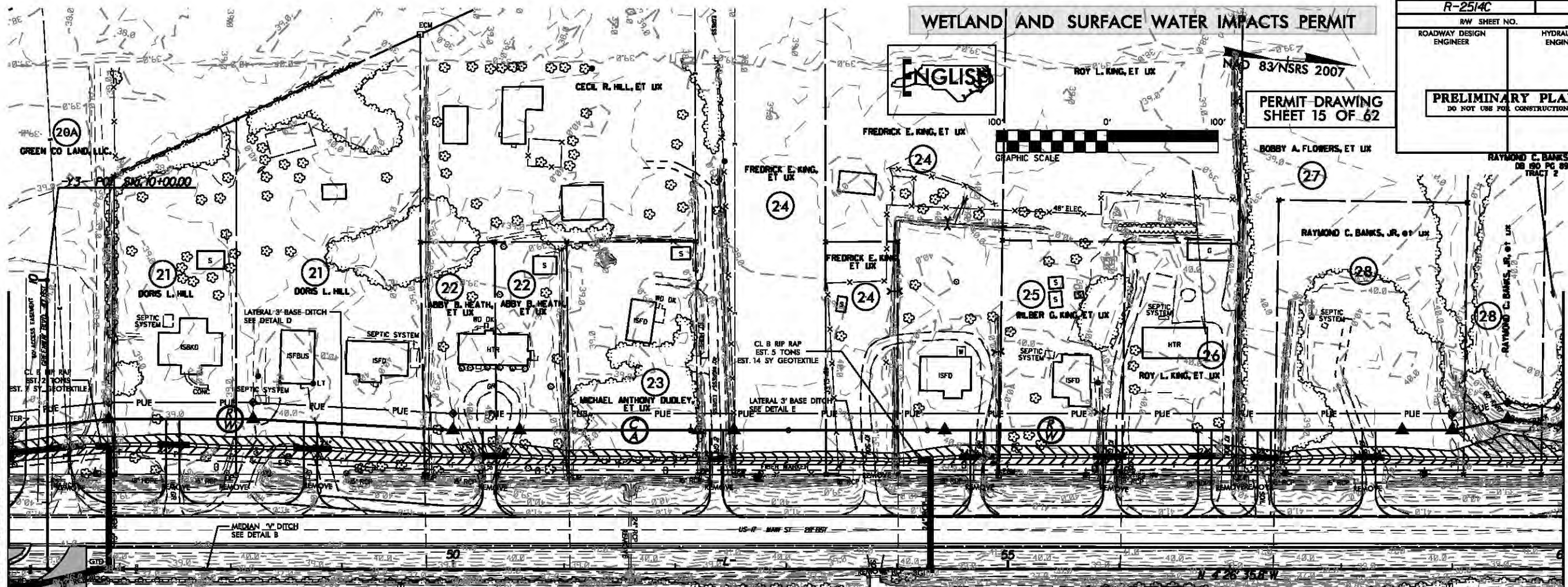


PERMIT-DRAWING
SHEET 15 OF 62



MATCHLINE -L- STA. 46 + 00.00 SEE SHEET 6

MATCHLINE -L- STA. 60 + 00.00 SEE SHEET 8



DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

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REVISIONS

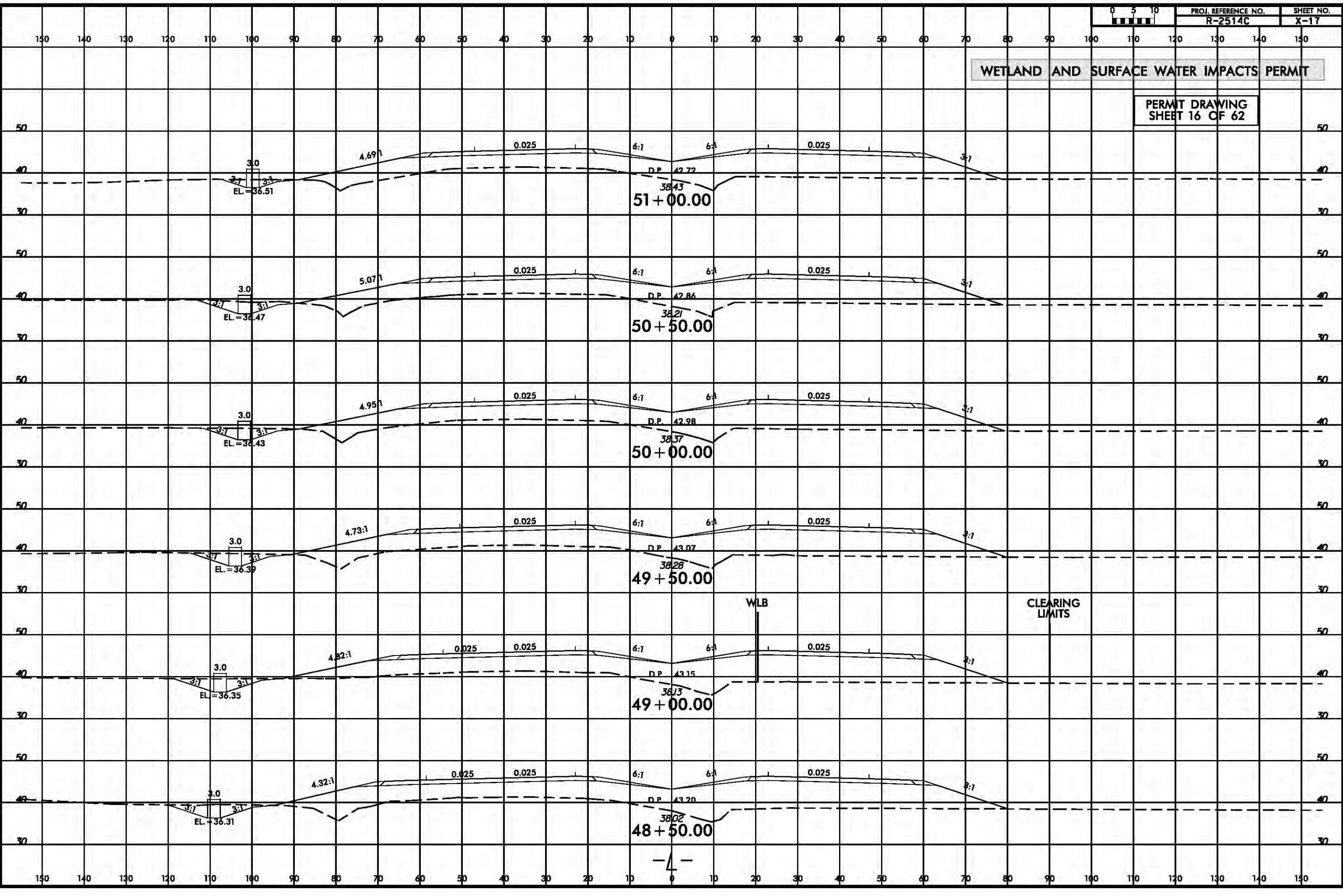
*****SYTIME*****
*****09/15/2007*****
*****09/15/2007*****

B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 16 OF 62

2/6/2014
epeller
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*****USER*****

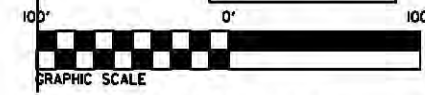
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 8
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 17 OF 62

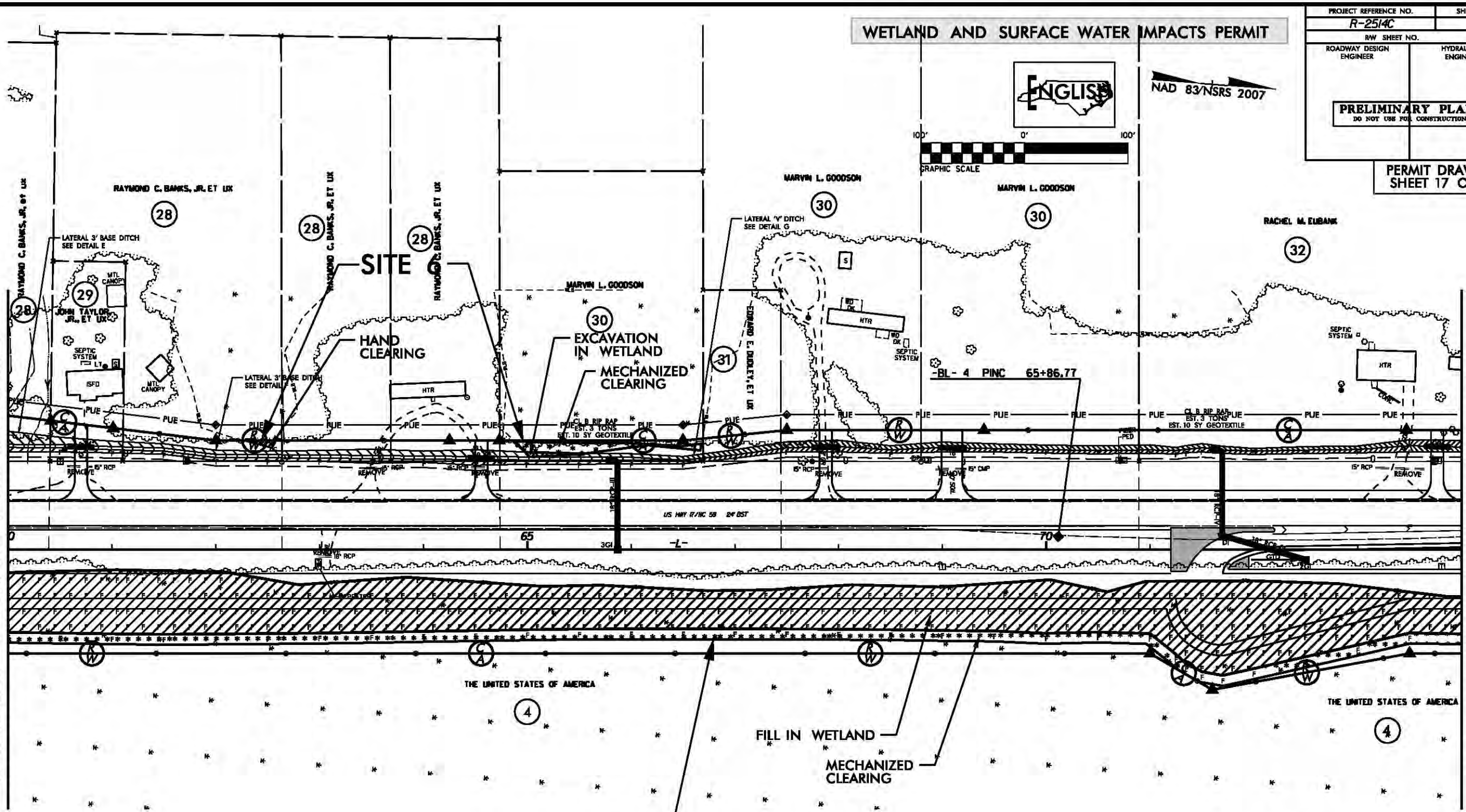


NAD 83/NSRS 2007



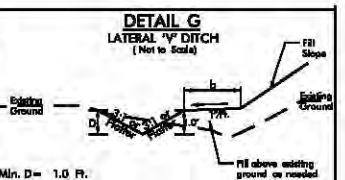
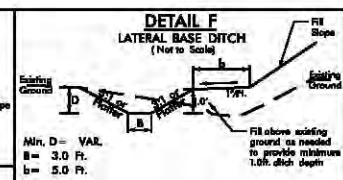
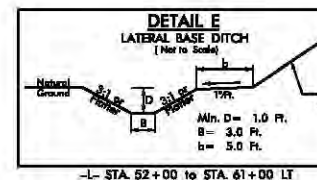
MATCHLINE -L- STA. 60+00.00 SEE SHEET 7

MATCHLINE -L- STA. 74+00.00 SEE SHEET 9



SITE 4

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



4/23/2014
eseller
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REVISIONS

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8/17/99

PROJECT REFERENCE NO. R-2514C	SHEET NO. 8
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 18 OF 62

WETLAND AND SURFACE WATER IMPACTS PERMIT

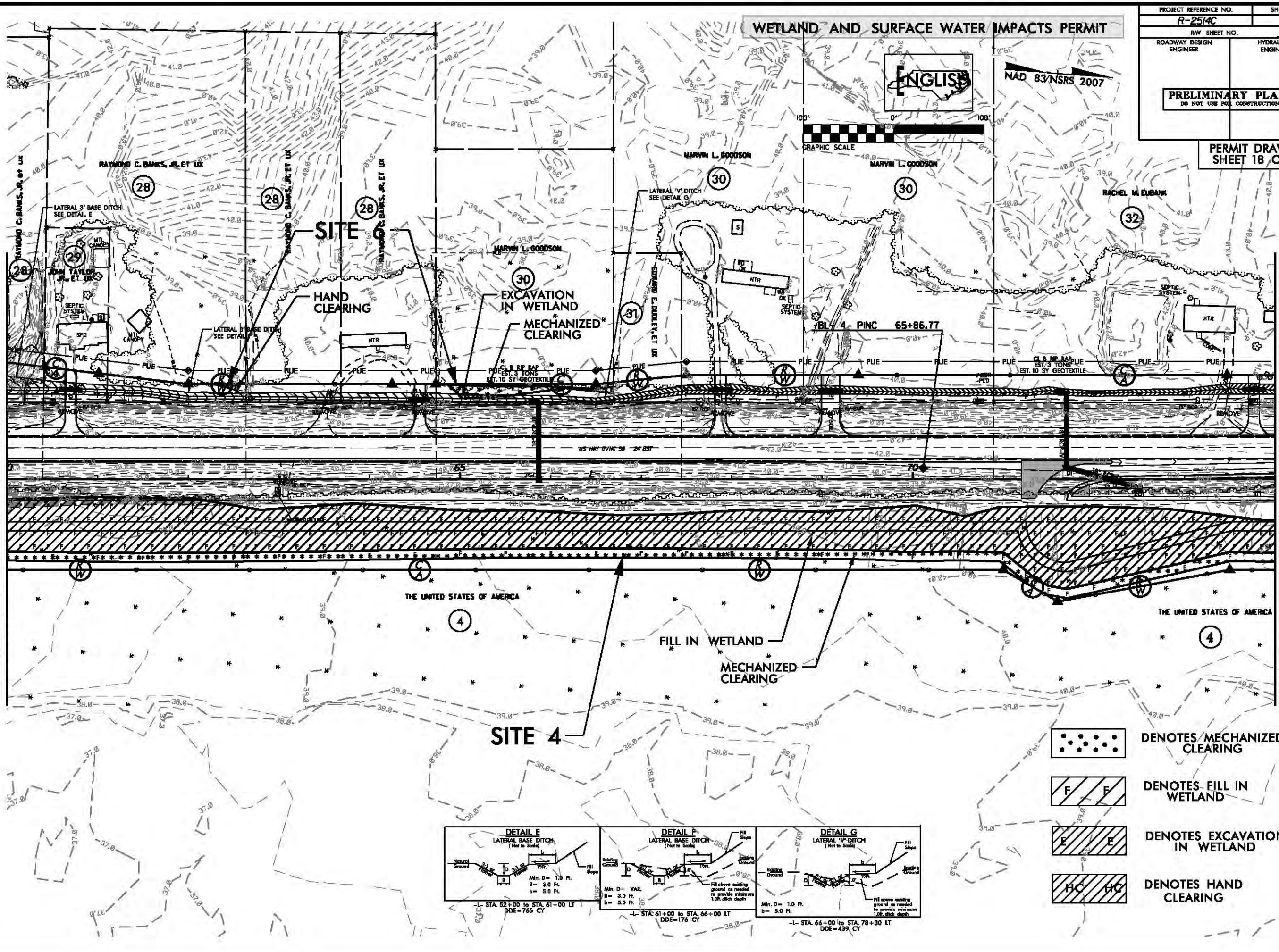


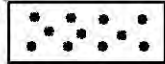



NAD 83/NSRS 2007

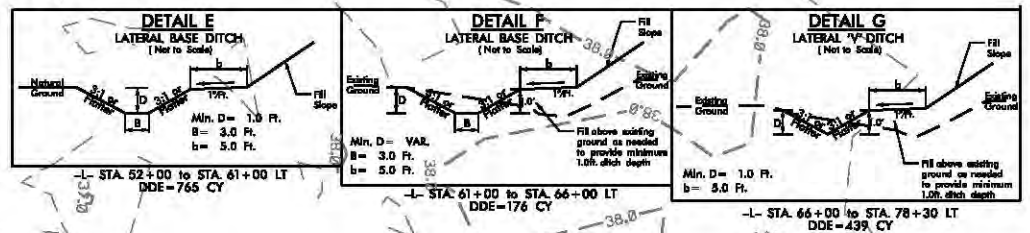


MATCHLINE -L- STA. 60 + 00.00 SEE SHEET 7

MATCHLINE -L- STA. 74 + 00.00 SEE SHEET 9



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



4/23/2014
eseller
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REVISIONS

8/17/99

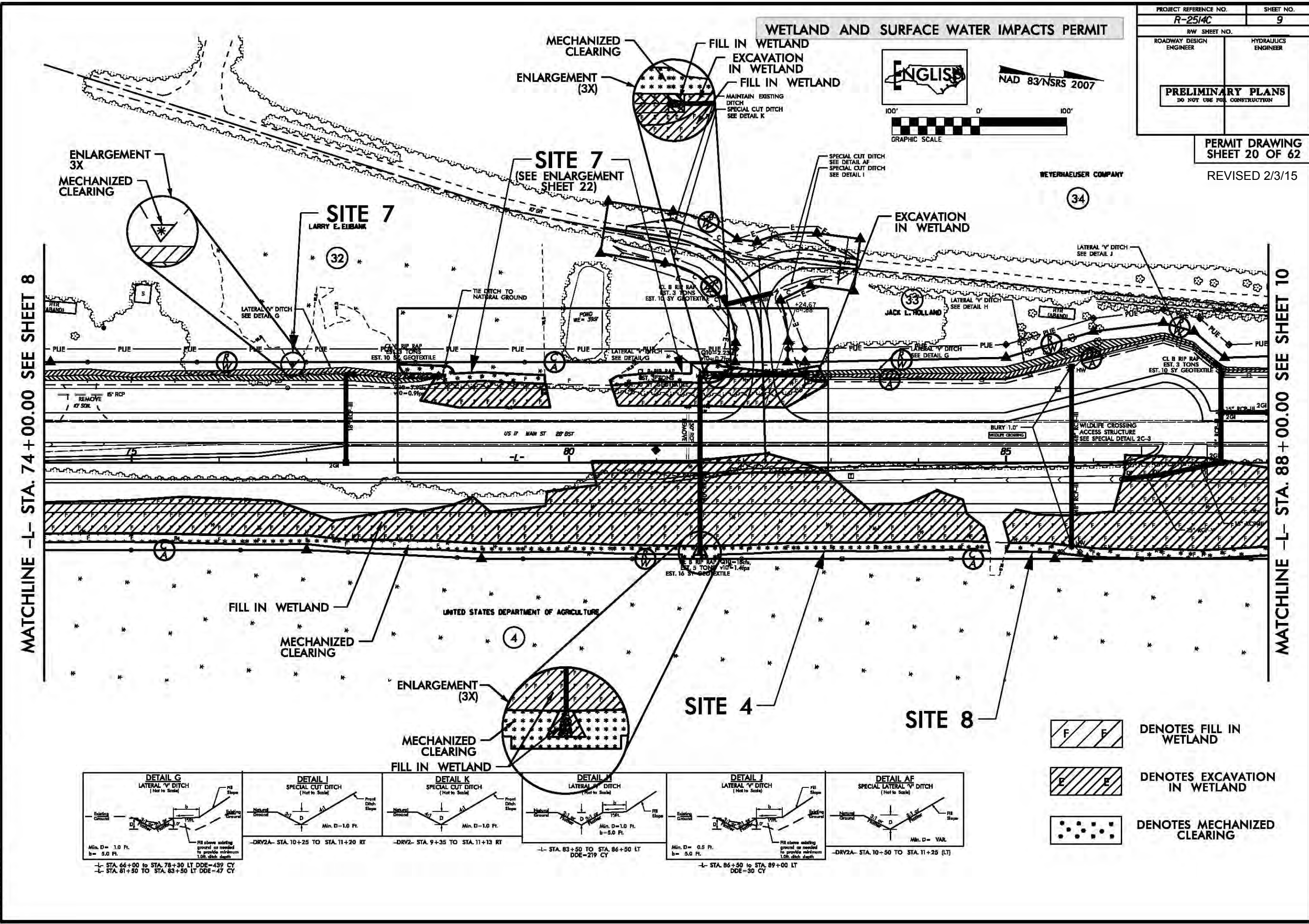
*****SYTIME*****
*****UN*****

PROJECT REFERENCE NO. R-2514C	SHEET NO. 9
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

WETLAND AND SURFACE WATER IMPACTS PERMIT

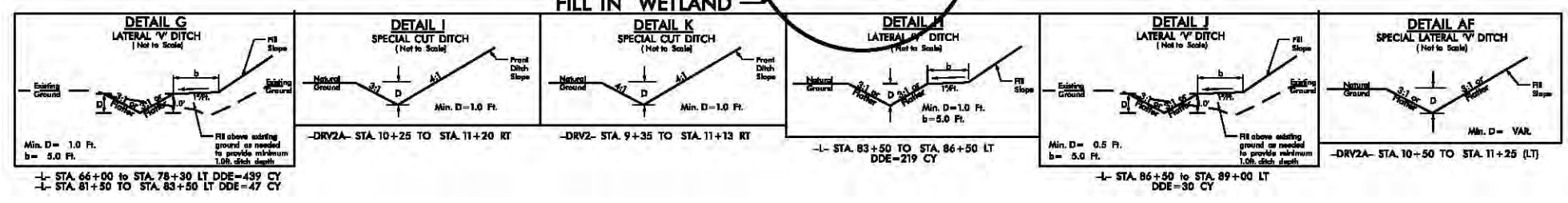


PERMIT DRAWING
SHEET 20 OF 62
REVISED 2/3/15



MATCHLINE -L- STA. 74 + 00.00 SEE SHEET 8

MATCHLINE -L- STA. 88 + 00.00 SEE SHEET 10



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

1/30/2015 beanderson R:\Hydraulics\PERMITS_Environmental\Drawings\wetland\R-2514C_Hyd_perm_wet_pah09.dgn

REVISIONS

8/17/99

SYTIME

PROJECT REFERENCE NO. R-2514C	SHEET NO. 9
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 21 OF 62

REVISED 2/3/15

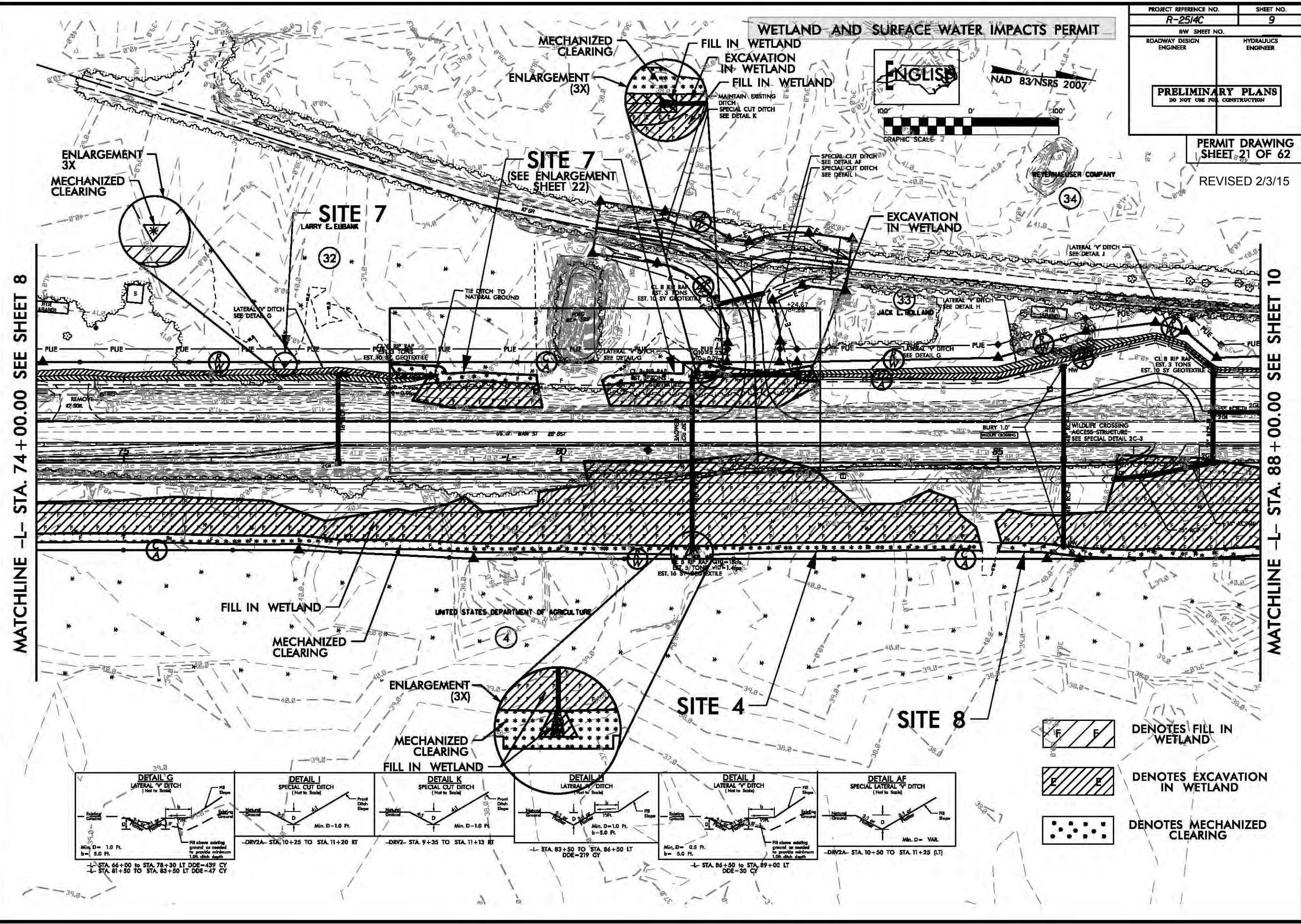
WETLAND AND SURFACE WATER IMPACTS PERMIT

ENGLISH

NAD 83/NSRS 2007

100' 0' 100'

GRAPHIC SCALE



MATCHLINE -L- STA. 74 + 00.00 SEE SHEET 8

MATCHLINE -L- STA. 88 + 00.00 SEE SHEET 10

LEGEND

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

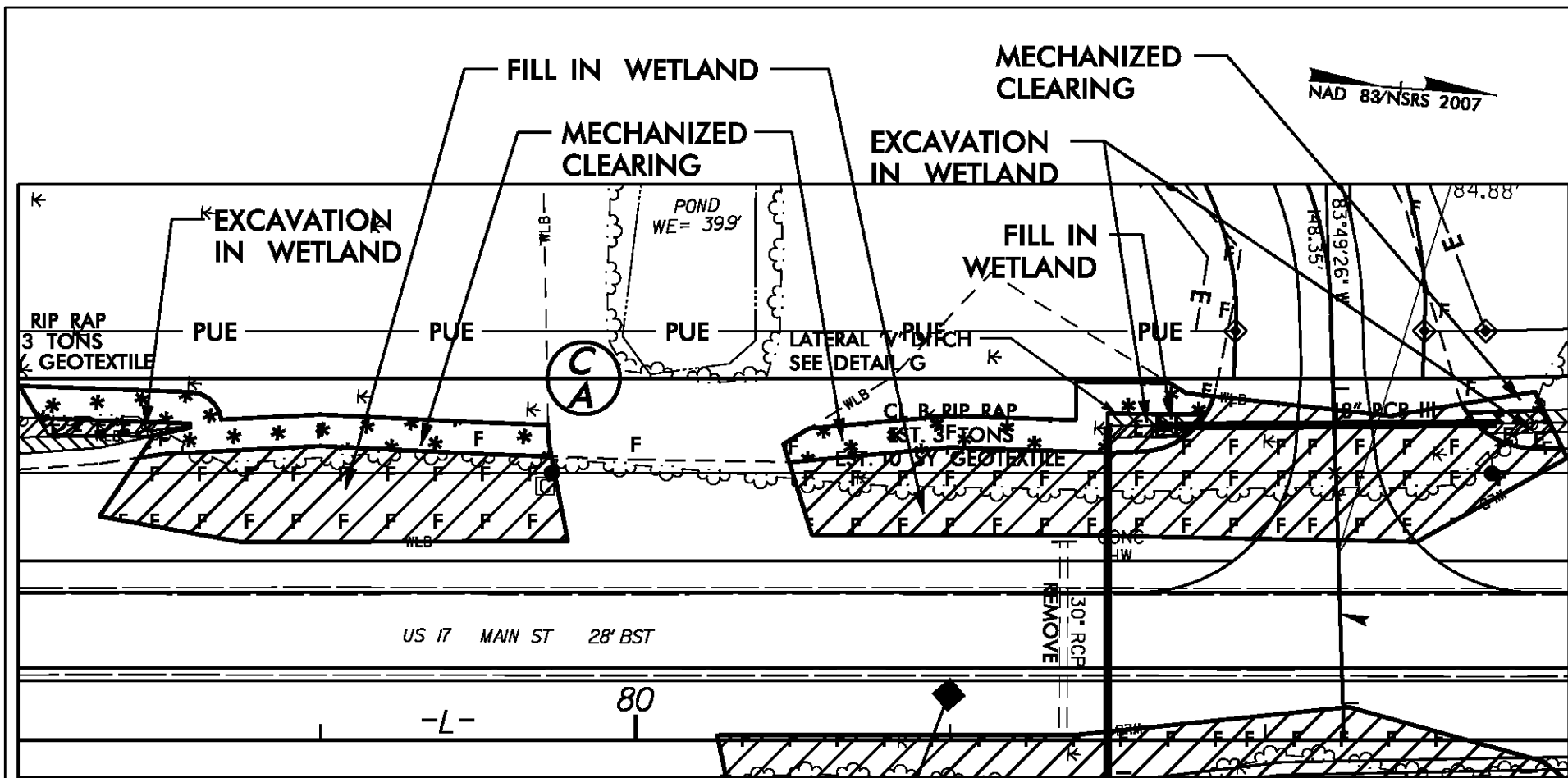
DETAILS

- DETAIL G:** LATERAL V DITCH (Not to Scale). Min. D = 1.0 Ft., b = 5.0 Ft. -L- STA. 66+00 TO STA. 78+30 LT DDE=439 CY, -L- STA. 81+50 TO STA. 83+50 LT DDE=47 CY
- DETAIL I:** SPECIAL CUT DITCH (Not to Scale). Min. D = 1.0 Ft. -DRY2A- STA. 10+25 TO STA. 11+20 RT
- DETAIL K:** SPECIAL CUT DITCH (Not to Scale). Min. D = 1.0 Ft. -DRY2- STA. 9+35 TO STA. 11+13 RT
- DETAIL J:** LATERAL V DITCH (Not to Scale). Min. D = 1.0 Ft., b = 5.0 Ft. -L- STA. 83+50 TO STA. 86+50 LT DDE=219 CY
- DETAIL AF:** SPECIAL LATERAL V DITCH (Not to Scale). Min. D = 0.5 Ft., b = 5.0 Ft. -L- STA. 86+50 TO STA. 89+00 LT DDE=30 CY

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REVISIONS

SYTIME



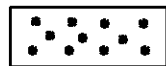
SITE 7 ENLARGEMENT



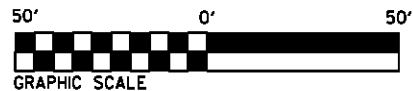
DENOTES EXCAVATION
IN WETLAND



DENOTES FILL IN
WETLAND



DENOTES MECHANIZED
CLEARING



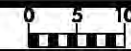
NCDOT

DIVISION OF HIGHWAYS
JONES COUNTY

PROJECT: 34442.1.4 (R-2514C)

US 17 FROM NORTH OF
MAYSVILLE TO SOUTH OF
NC 58 NEAR POLLOCKSVILLE

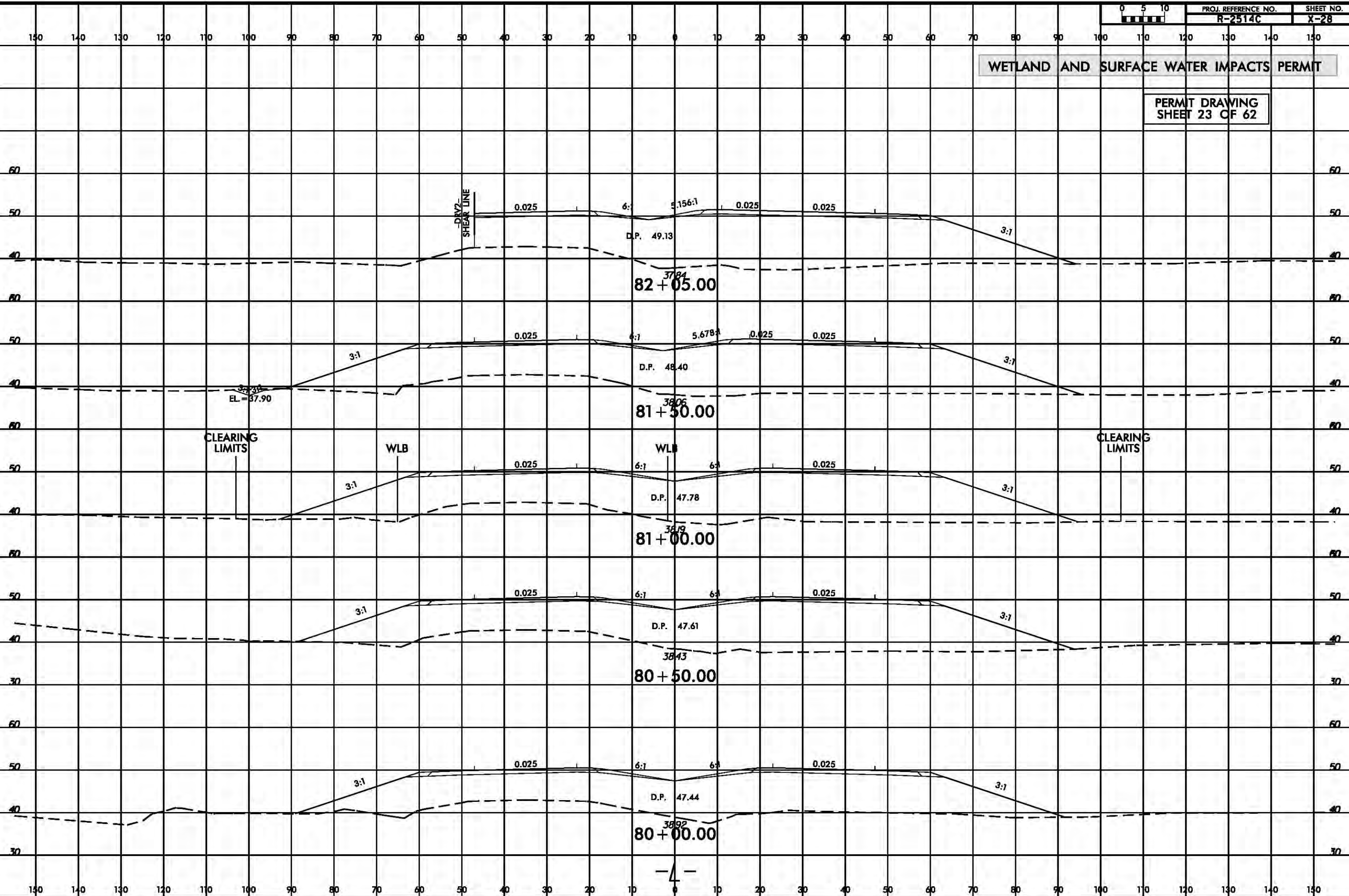
8/23/99



PROJ. REFERENCE NO. R-2514C SHEET NO. X-28

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 23 OF 62



2/6/2014
apseller
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SYSTEMTIME
DATE
TIME
USER
NAME

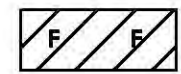
8/17/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

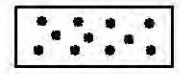
PROJECT REFERENCE NO. R-2514C	SHEET NO. 10
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



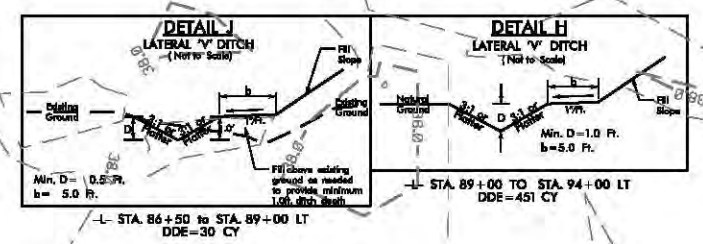
PERMIT DRAWING
SHEET 26 OF 62



DENOTES FILL IN WETLAND

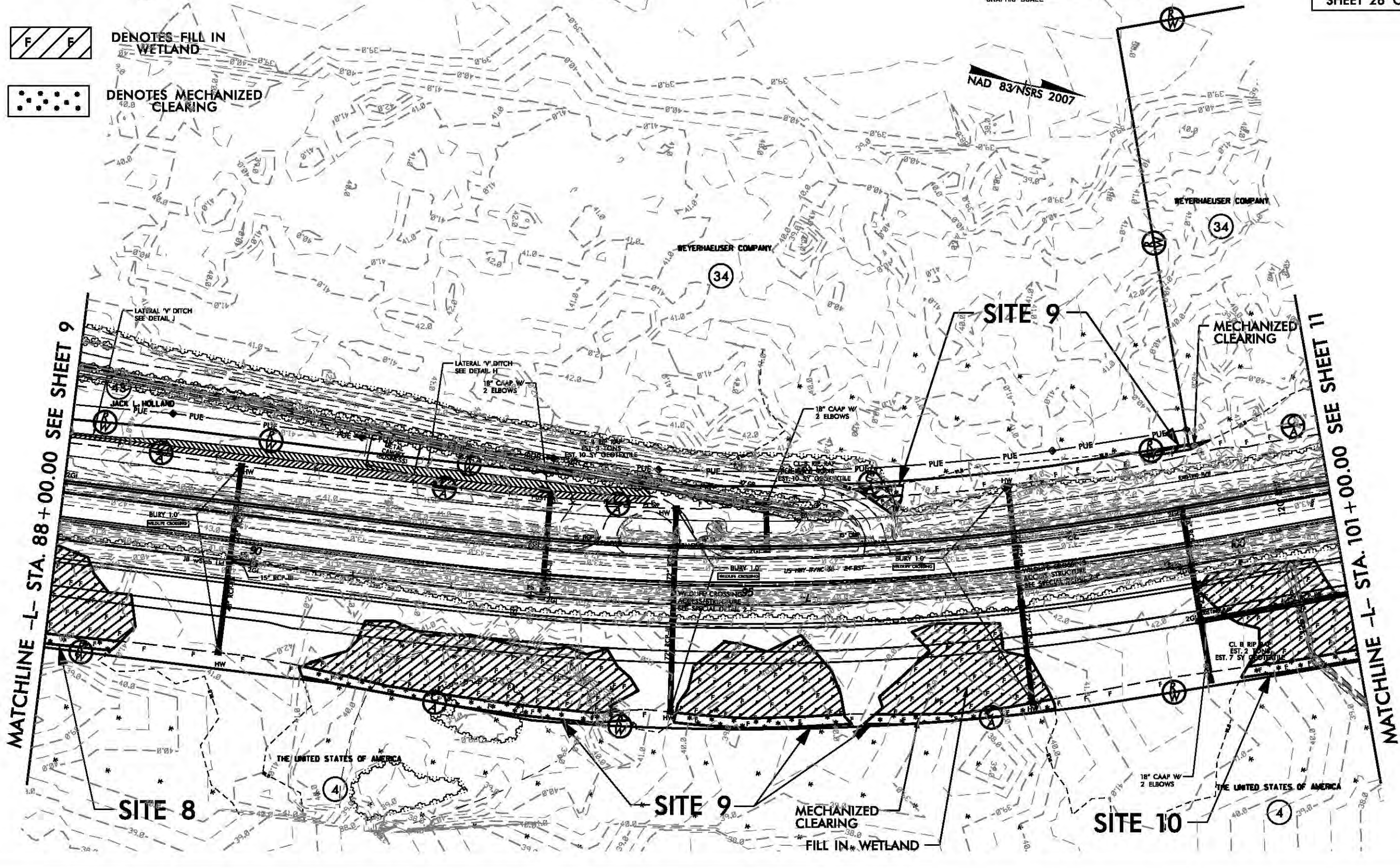


DENOTES MECHANIZED CLEARING



MATCHLINE -L- STA. 88 + 00.00 SEE SHEET 9

MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 11



4232014
epseller
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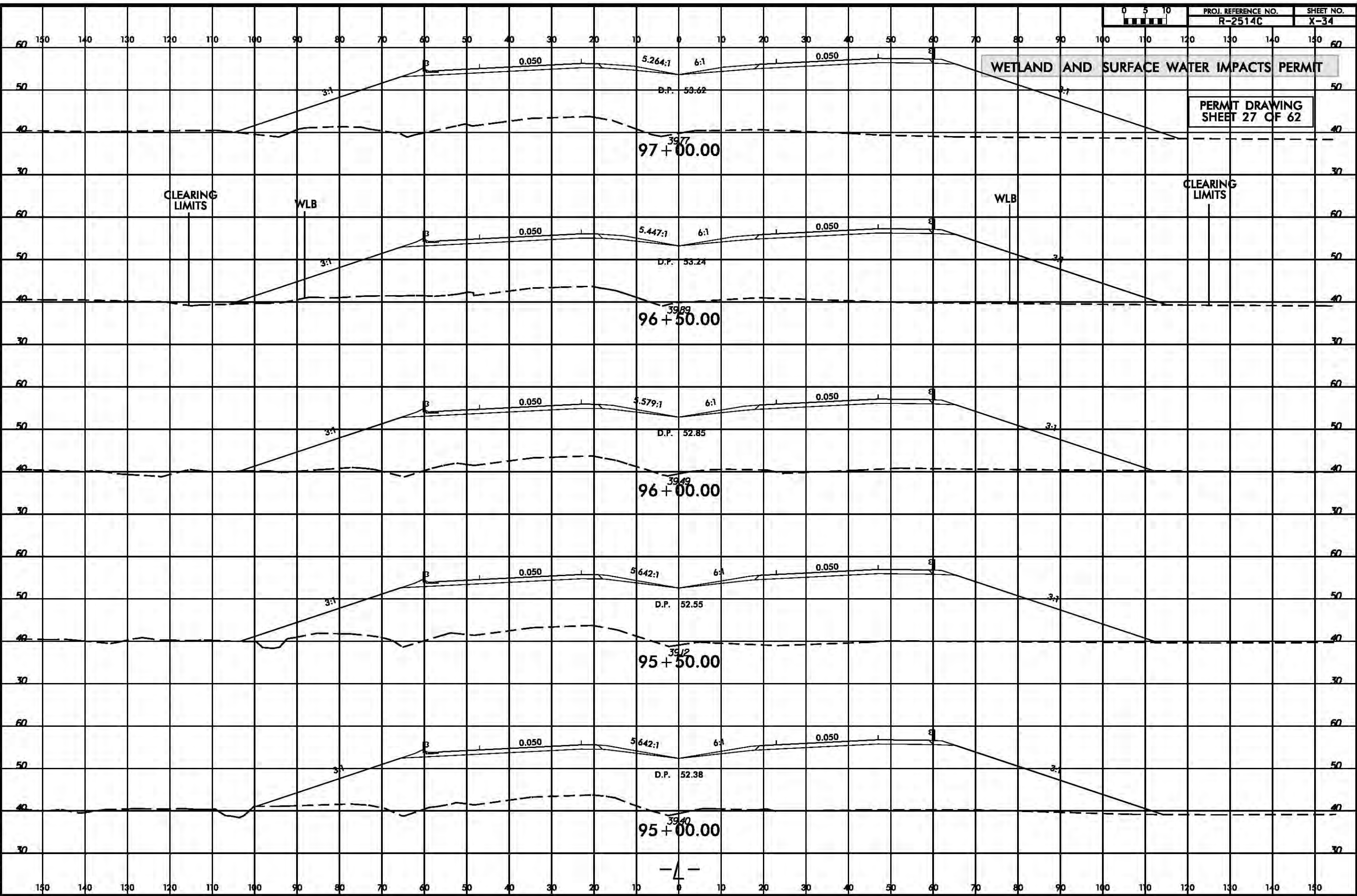
REVISIONS

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*****UN*****

B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 27 OF 62



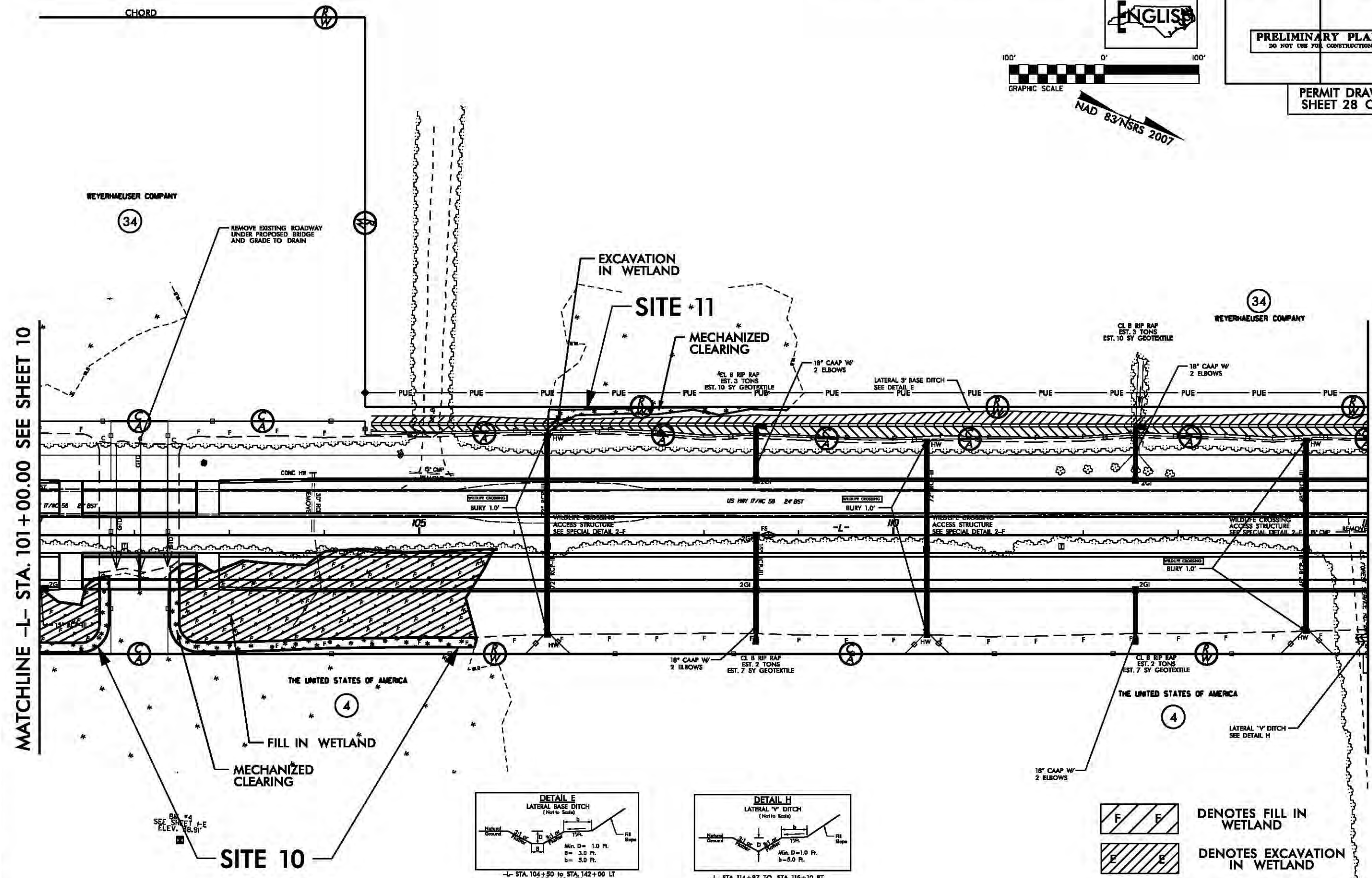
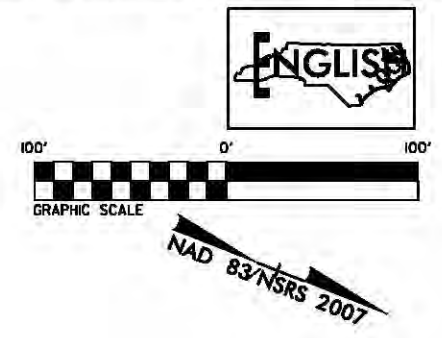
2/6/2014
epailler
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WETLAND AND SURFACE WATER IMPACTS PERMIT

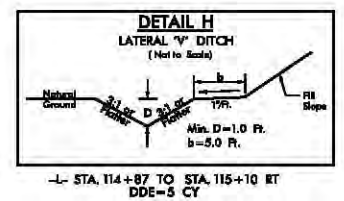
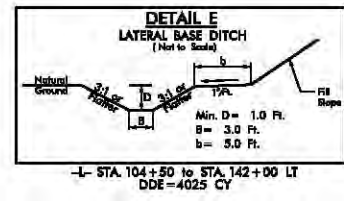
PROJECT REFERENCE NO. R-2514C	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 28 OF 62



MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 10

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 12



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

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REVISIONS

8/17/99

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REVISIONS

8/17/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

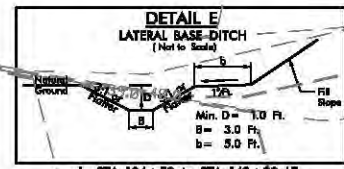
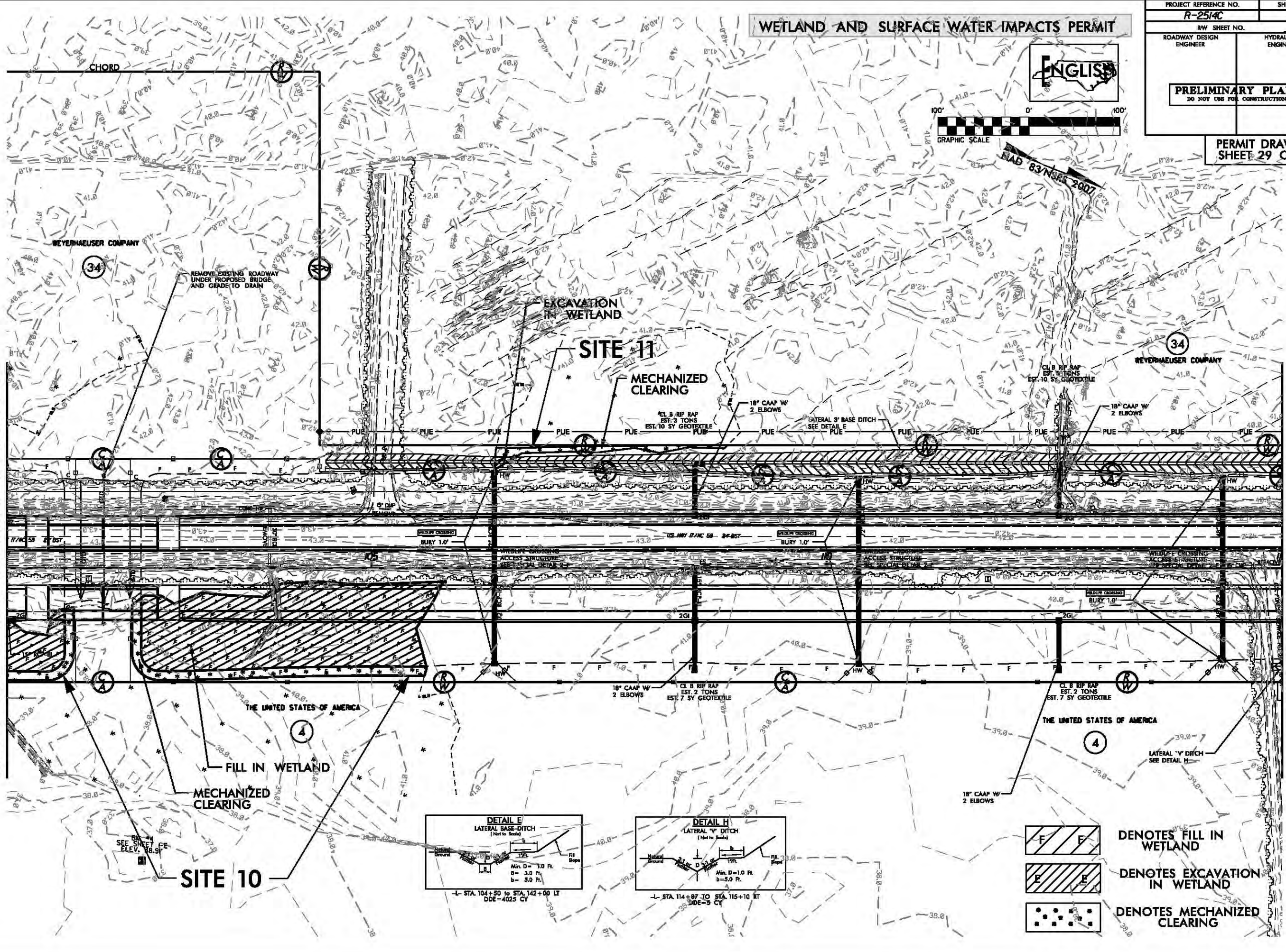
PROJECT REFERENCE NO. R-2514C	SHEET NO. 11
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



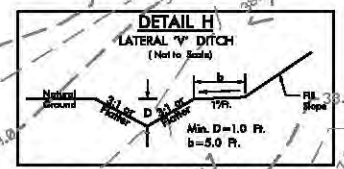
PERMIT DRAWING
SHEET 29 OF 62

MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 10

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 12



-L- STA. 104 + 50 TO STA. 142 + 00 LT
DDE = 4025 CY



-L- STA. 114 + 07 TO STA. 115 + 10 RT
DDE = 5 CY

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

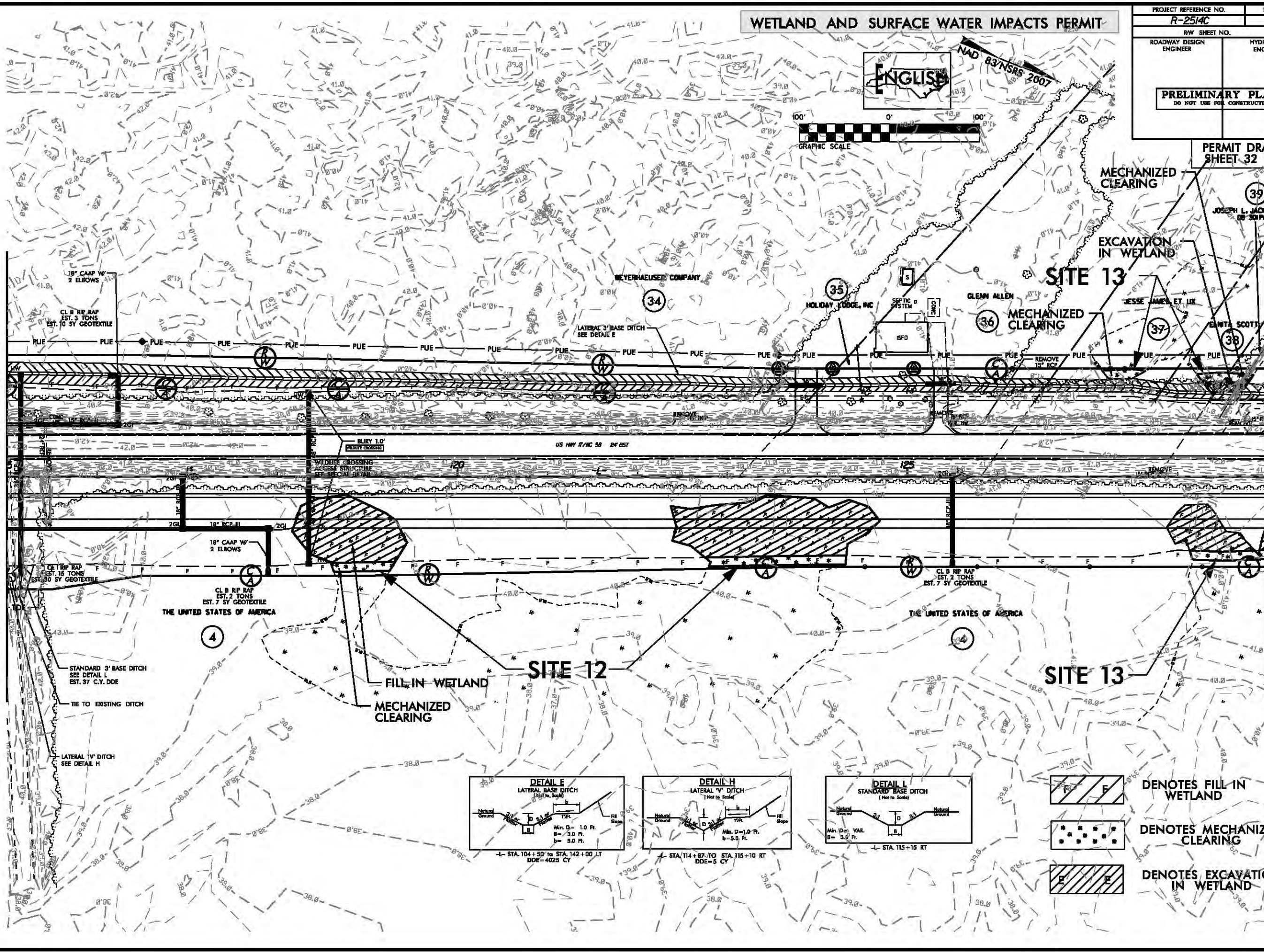
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 32 OF 62

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 11

MATCHLINE -L- STA. 129 + 00.00 SEE SHEET 13



22/4/2014
 beanderson
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REVISIONS

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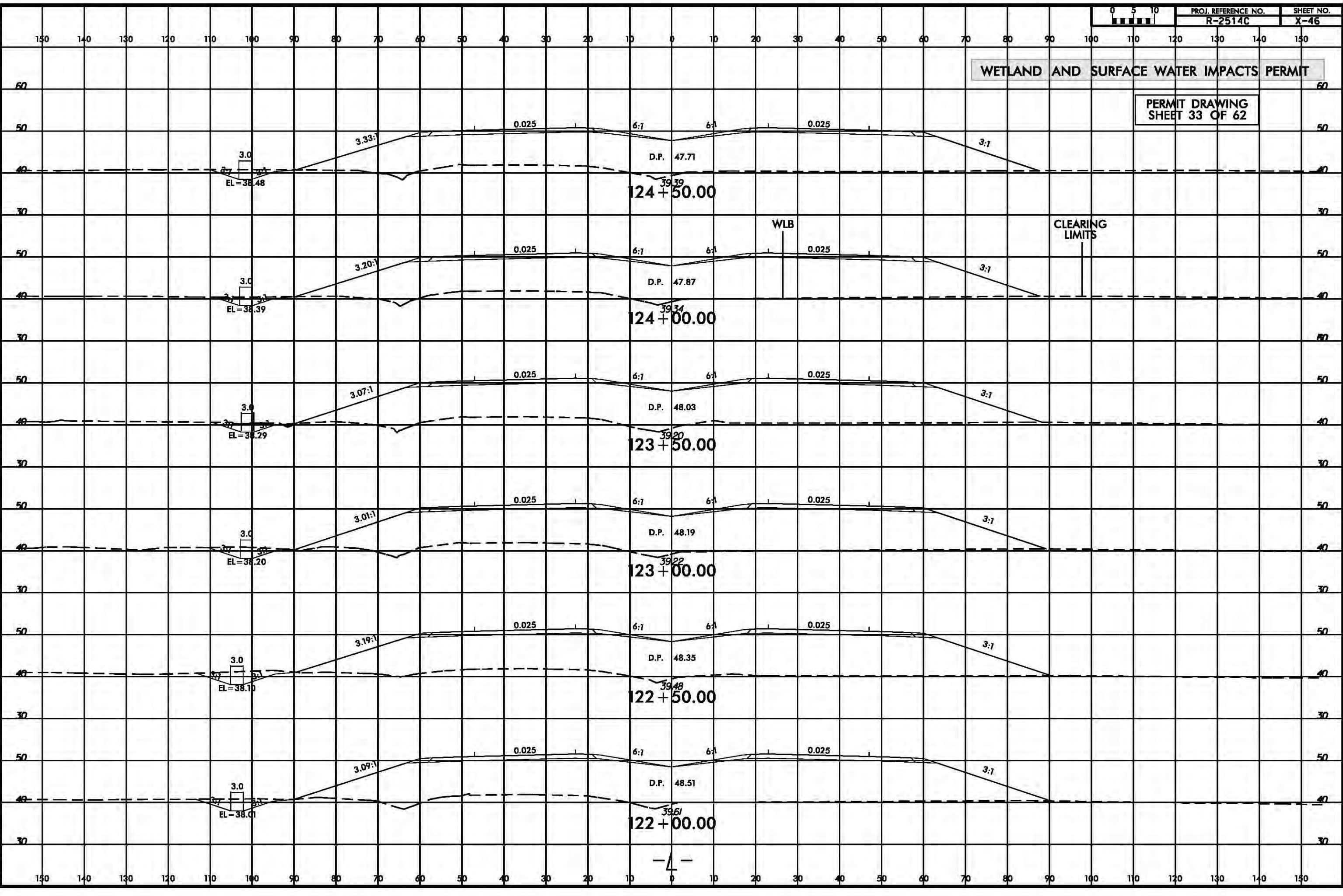
B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 33 OF 62

2/6/2014
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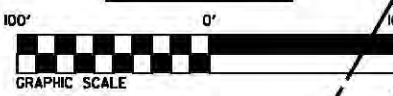


PROJECT REFERENCE NO. R-2514C	SHEET NO. 13
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

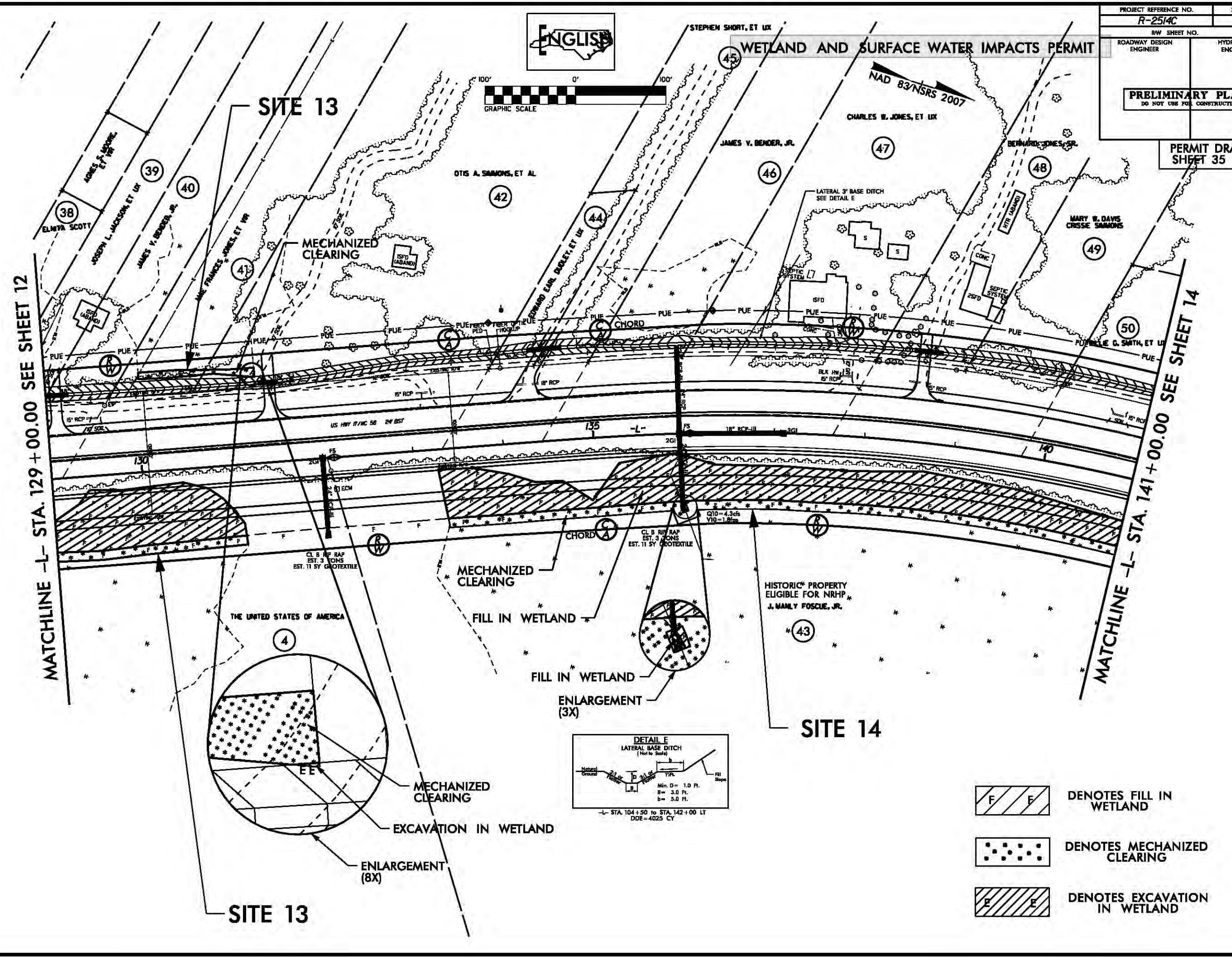
PERMIT DRAWING SHEET 35 OF 62



WETLAND AND SURFACE WATER IMPACTS PERMIT

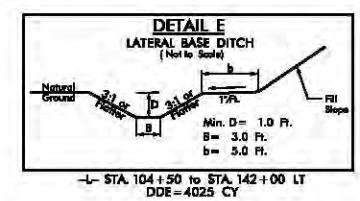


NAD 83/NSRS 2007



MATCHLINE -L- STA. 129 + 00.00 SEE SHEET 12

MATCHLINE -L- STA. 141 + 00.00 SEE SHEET 14



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

4/23/2014
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REVISIONS

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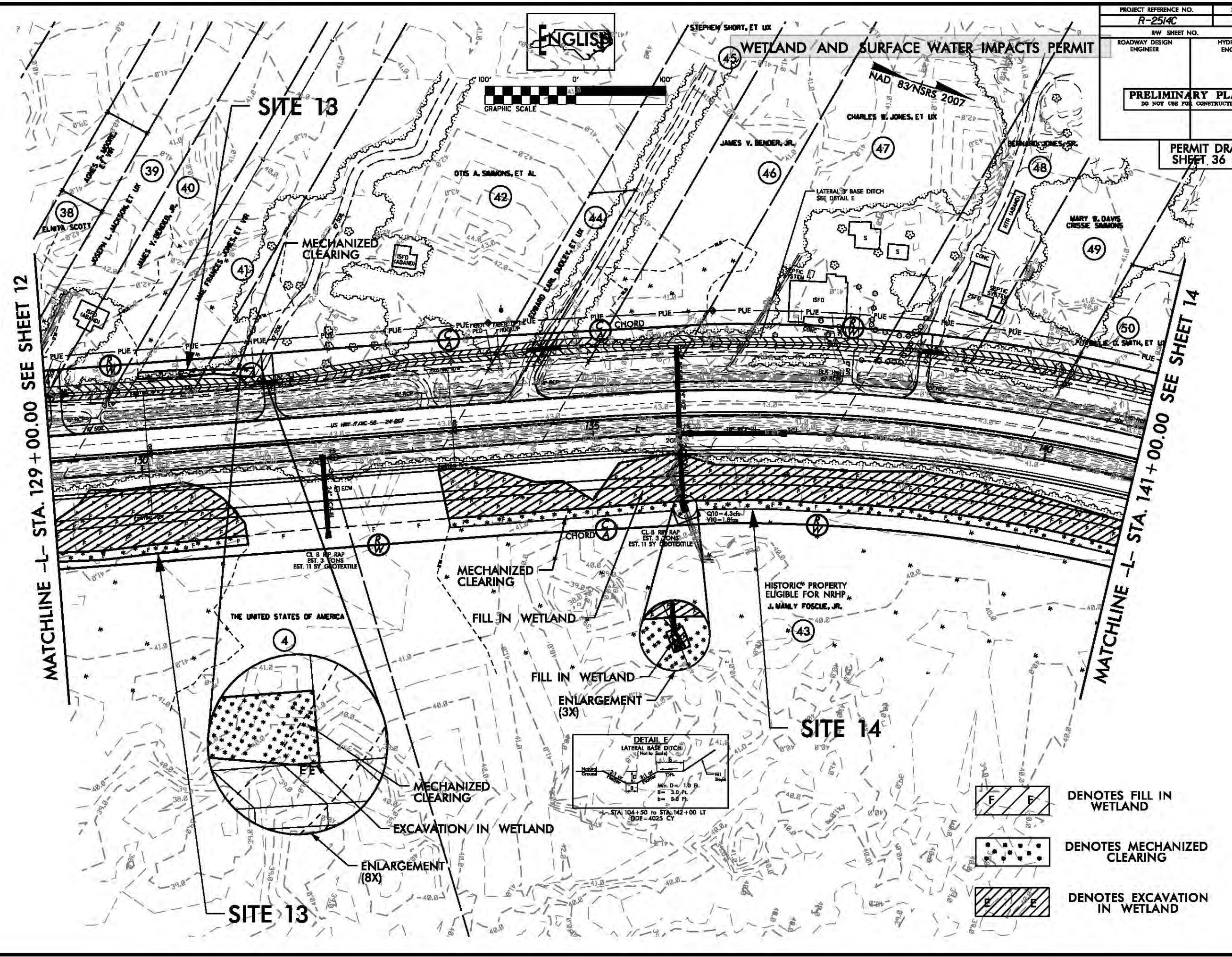
8/17/99

PROJECT REFERENCE NO. R-2514C	SHEET NO. 13
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING SHEET 36 OF 62

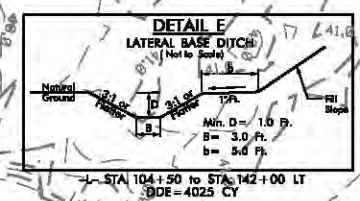
ENGLISH

WETLAND AND SURFACE WATER IMPACTS PERMIT



MATCHLINE -L- STA. 129 + 00.00 SEE SHEET 12

MATCHLINE -L- STA. 141 + 00.00 SEE SHEET 14



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

4/23/2014
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REVISIONS

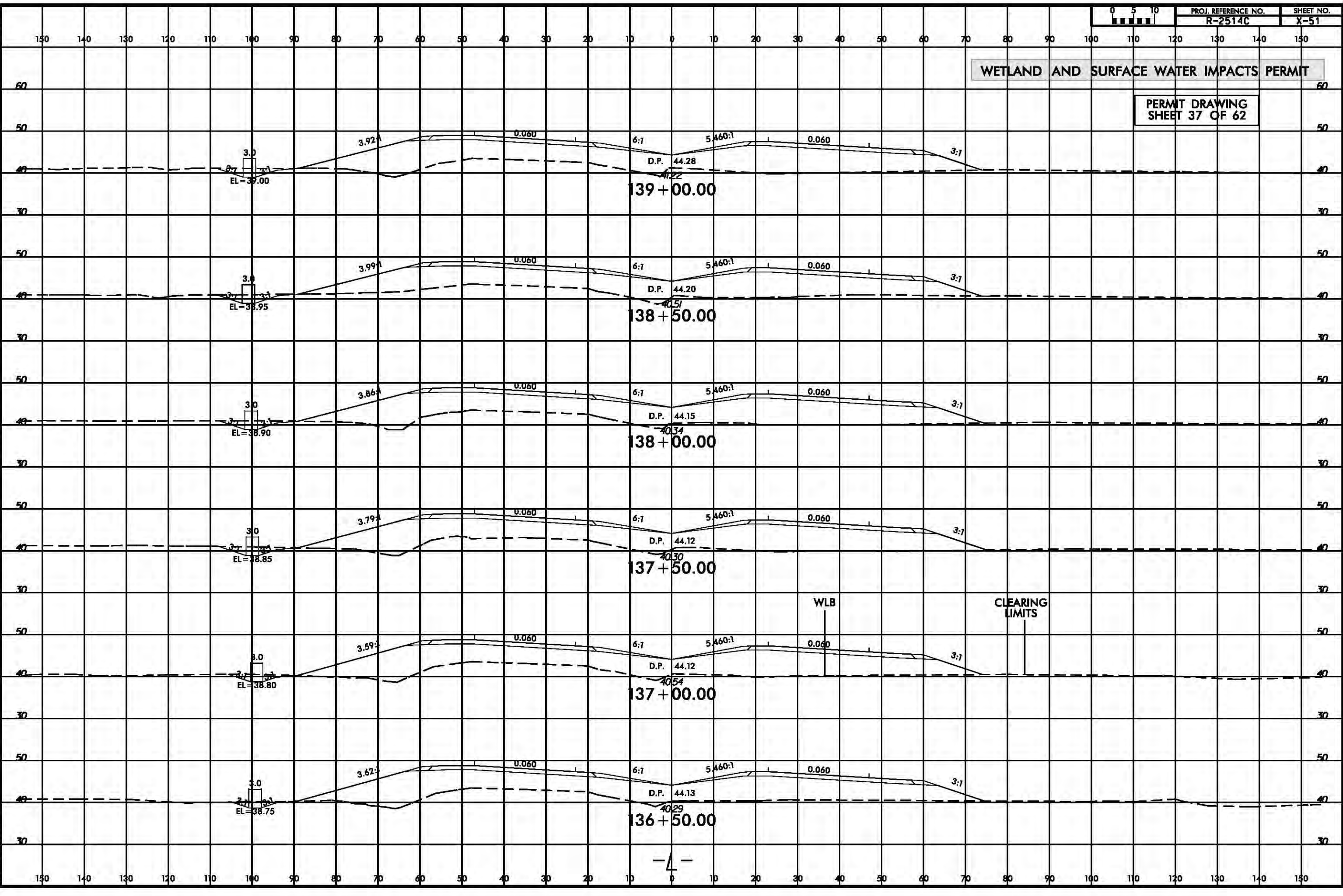
8/17/99

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*****SYTIME*****

B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 37 OF 62



2/6/2014
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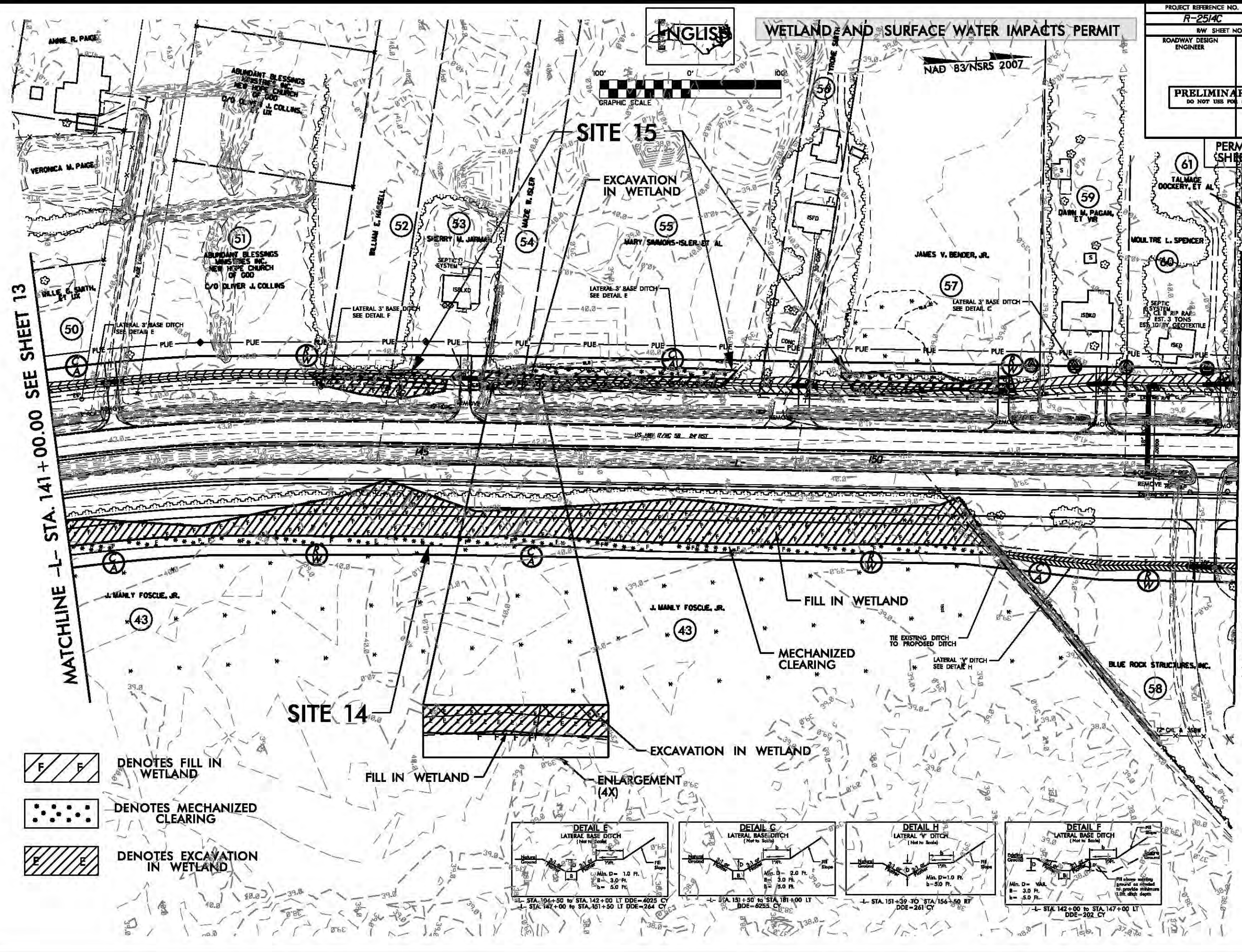
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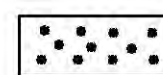

REVISIONS

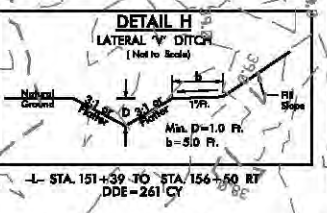
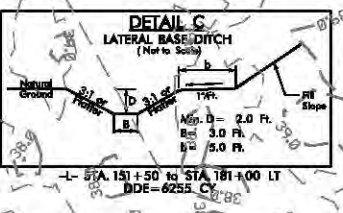
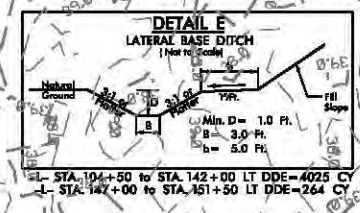
8/17/99

PROJECT REFERENCE NO. R-2514C	SHEET NO. 14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 39 OF 62



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



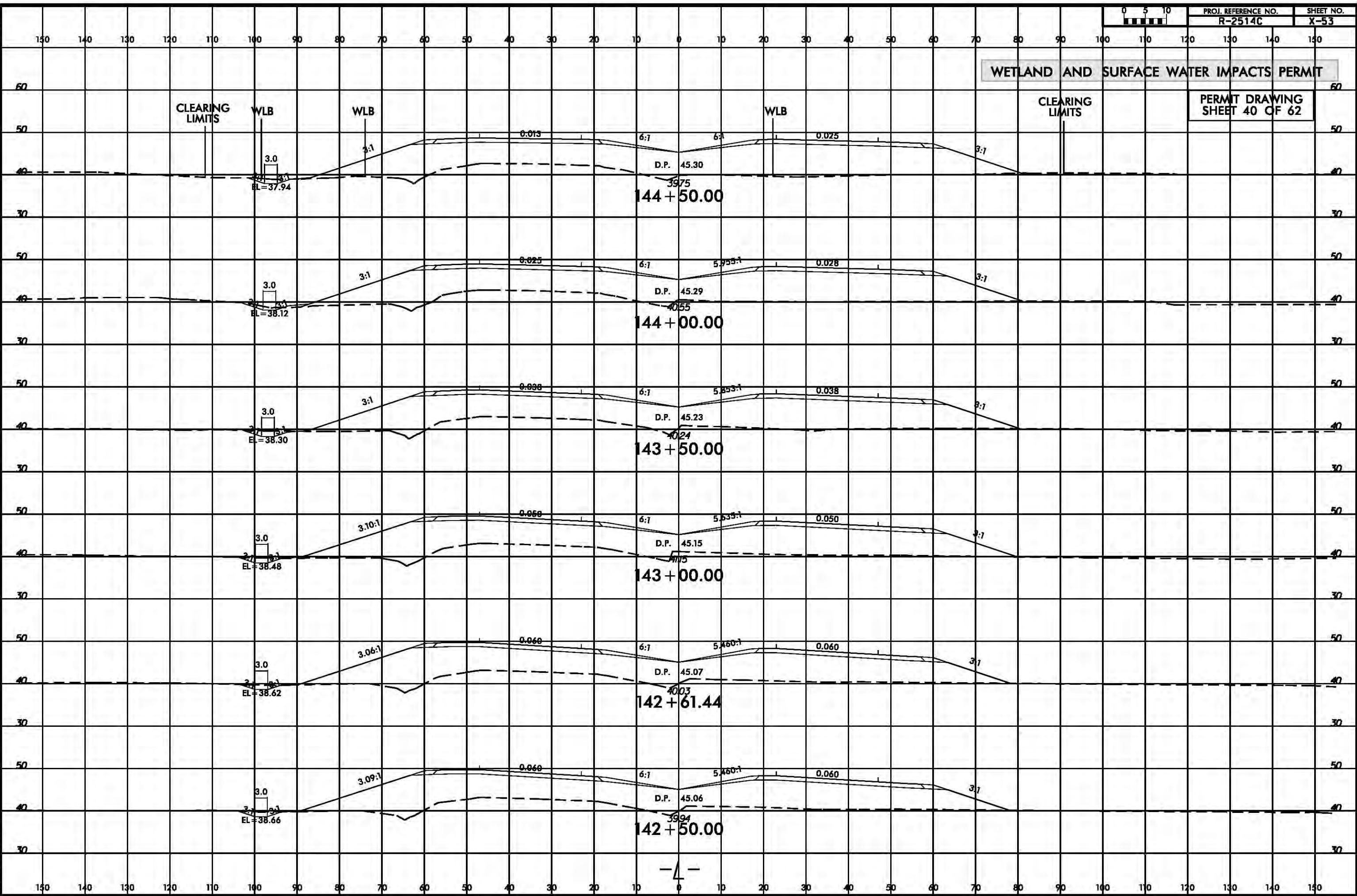
MATCHLINE -L- STA. 141+00.00 SEE SHEET 13

MATCHLINE -L- STA. 154+00.00 SEE SHEET 15

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WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 40 OF 62



2/6/2014
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*****USER*****

PROJECT REFERENCE NO. R-2514C	SHEET NO. 15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

WETLAND AND SURFACE WATER IMPACTS PERMIT

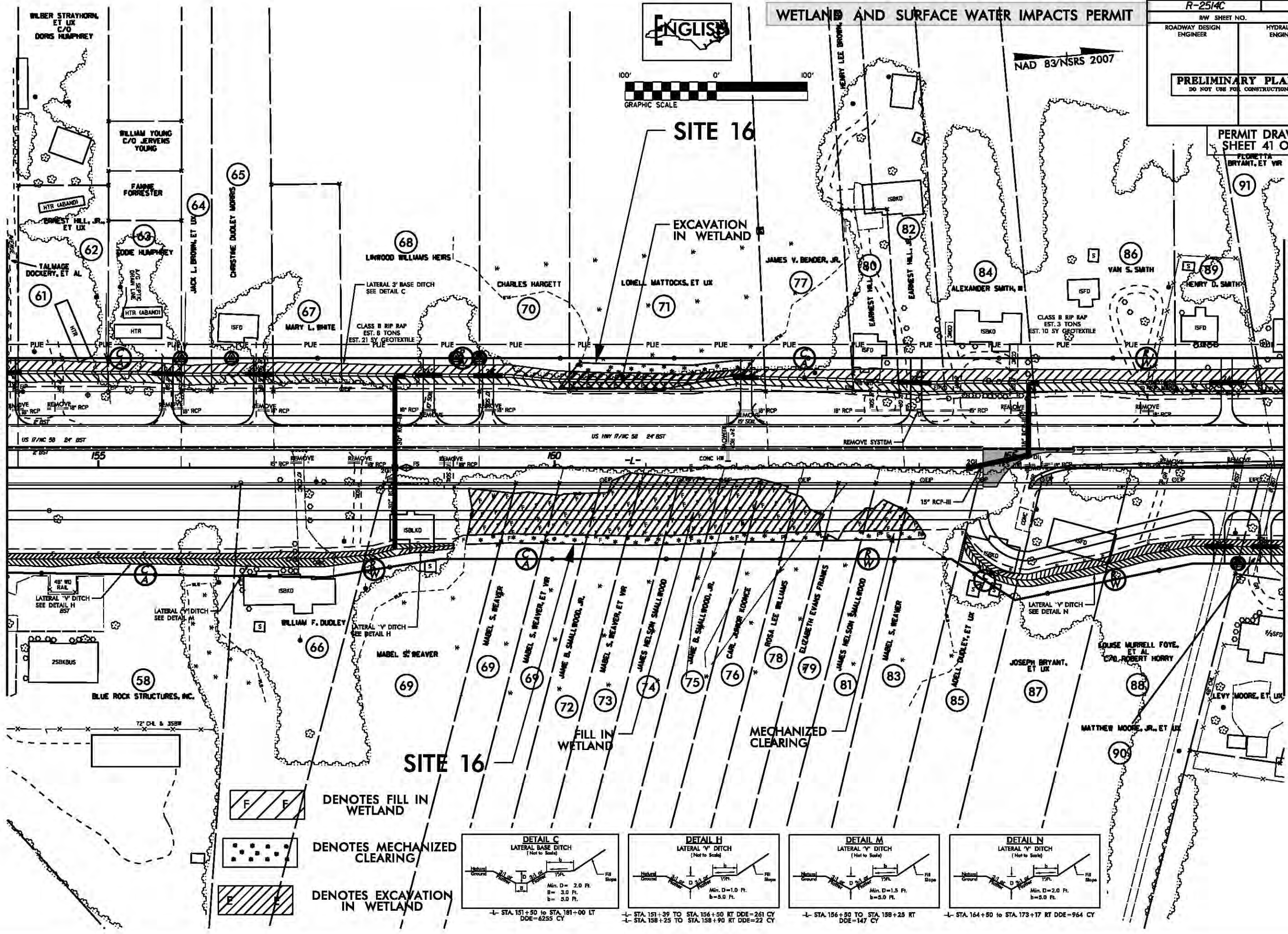


NAD 83/NSRS 2007

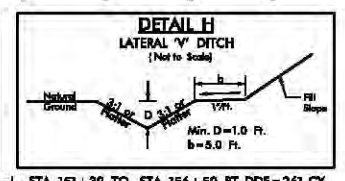
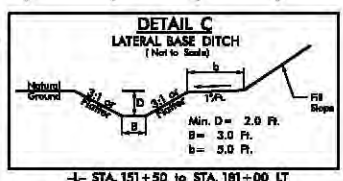
PERMIT DRAWING
SHEET 41 OF 62
FLORETTA
BRYANT, ET VR

MATCHLINE -L- STA. 154 + 00.00 SEE SHEET 14

MATCHLINE -L- STA. 168 + 00.00 SEE SHEET 16



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



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REVISIONS

8/17/99

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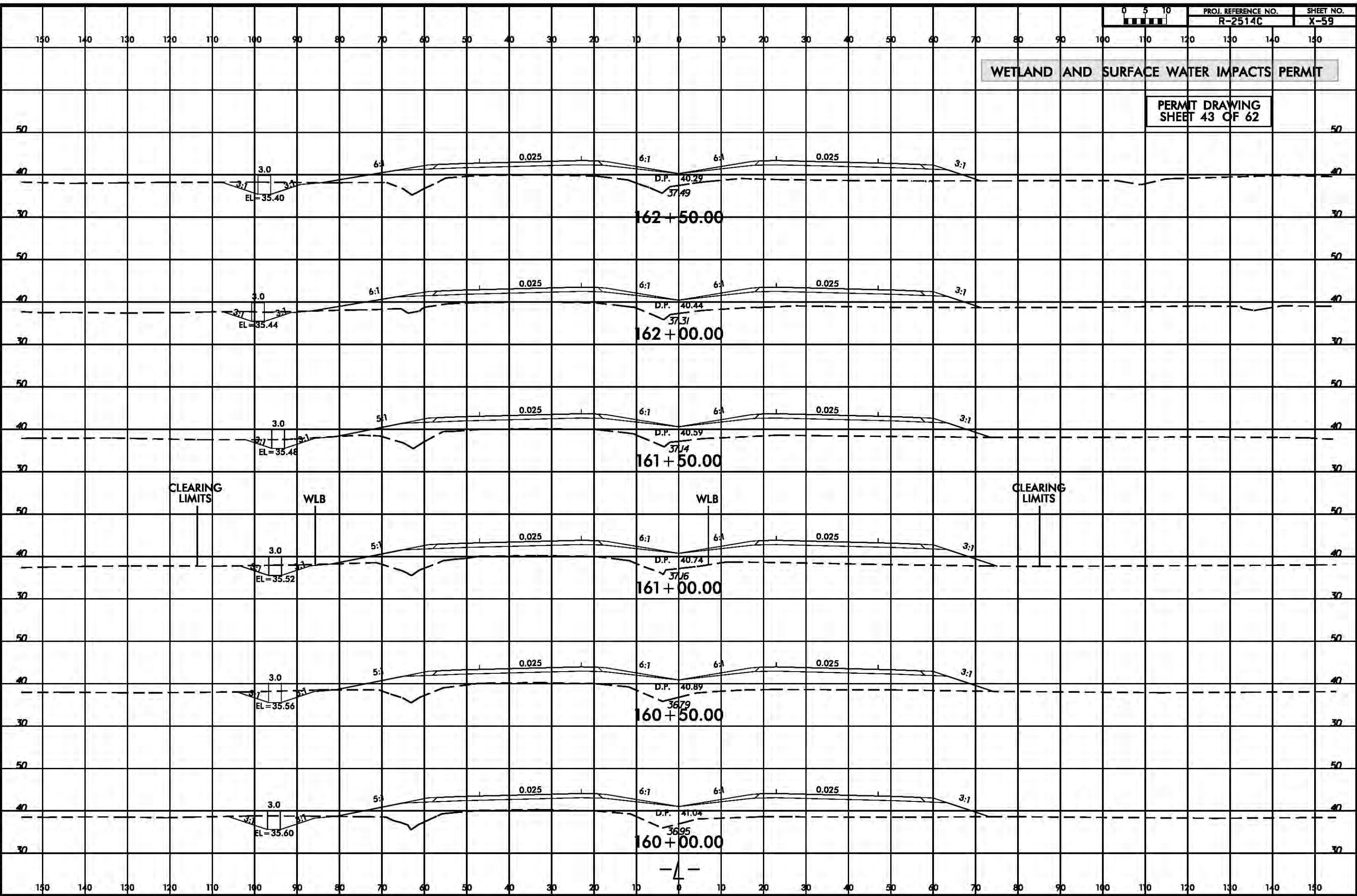
B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 43 OF 62

2/6/2014
epeller
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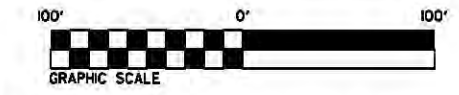


PROJECT REFERENCE NO. R-2514C	SHEET NO. 16
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

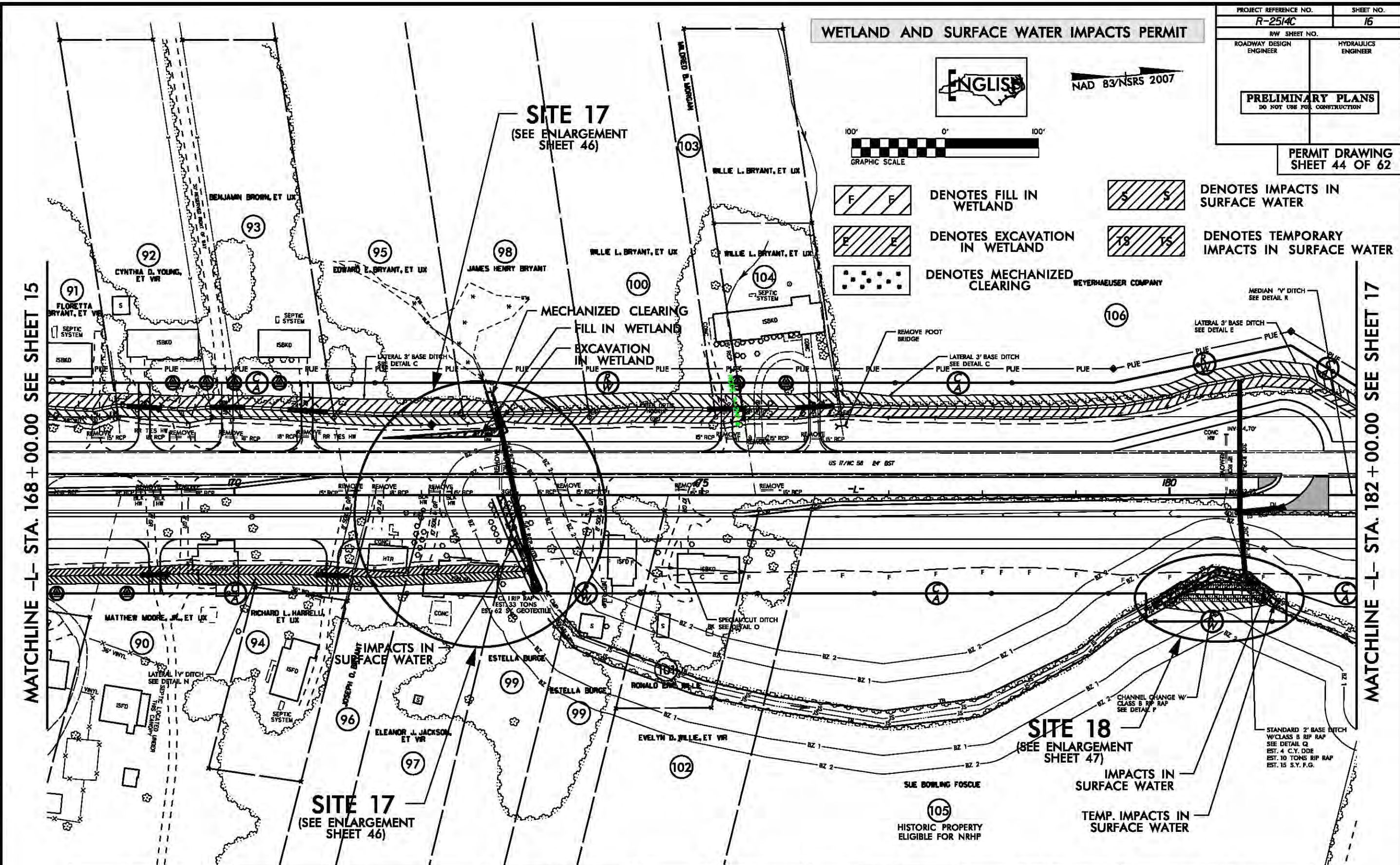
WETLAND AND SURFACE WATER IMPACTS PERMIT



NAD 83/NSRS 2007

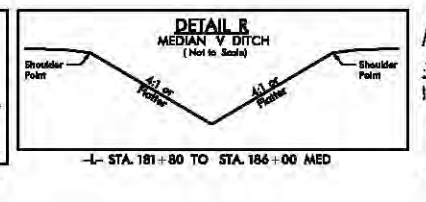
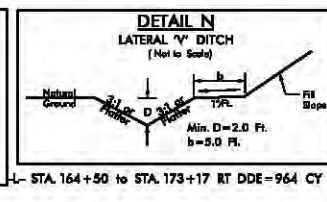
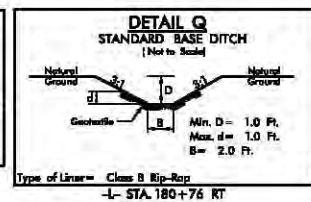
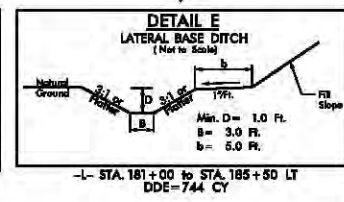
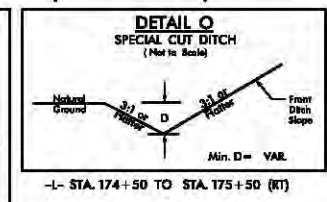
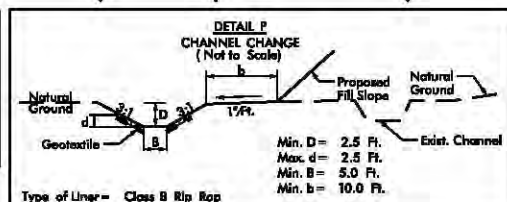
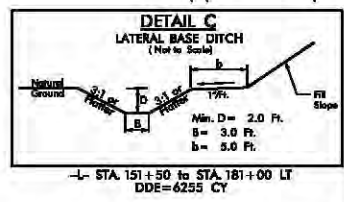


- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



MATCHLINE -L- STA. 168 + 00.00 SEE SHEET 15

MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 17



4/23/2014
epailler
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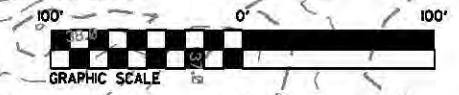
REVISIONS

PROJECT REFERENCE NO. R-2514C	SHEET NO. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

WETLAND AND SURFACE WATER IMPACTS PERMIT



NAD 83/NSRS 2007

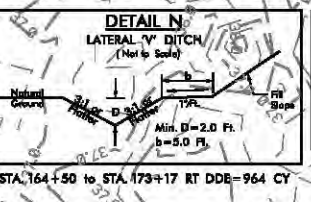
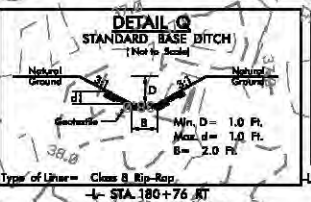
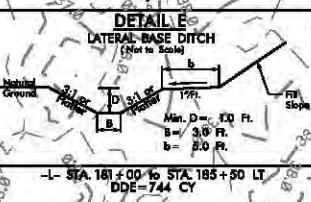
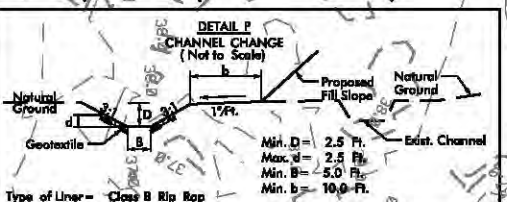
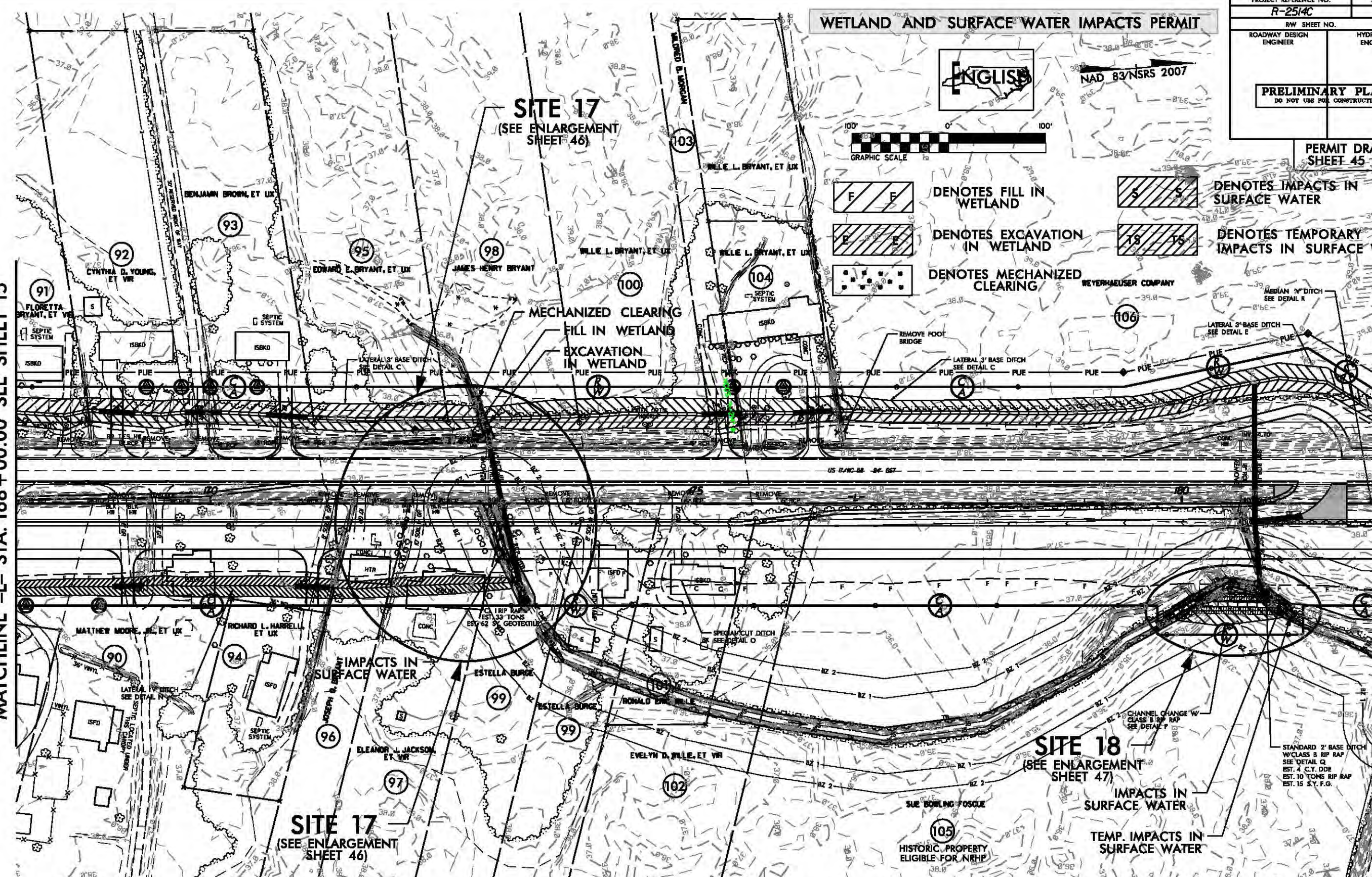


- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

PERMIT DRAWING
SHEET 45 OF 62

MATCHLINE -L- STA. 168 + 00.00 SEE SHEET 15

MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 17

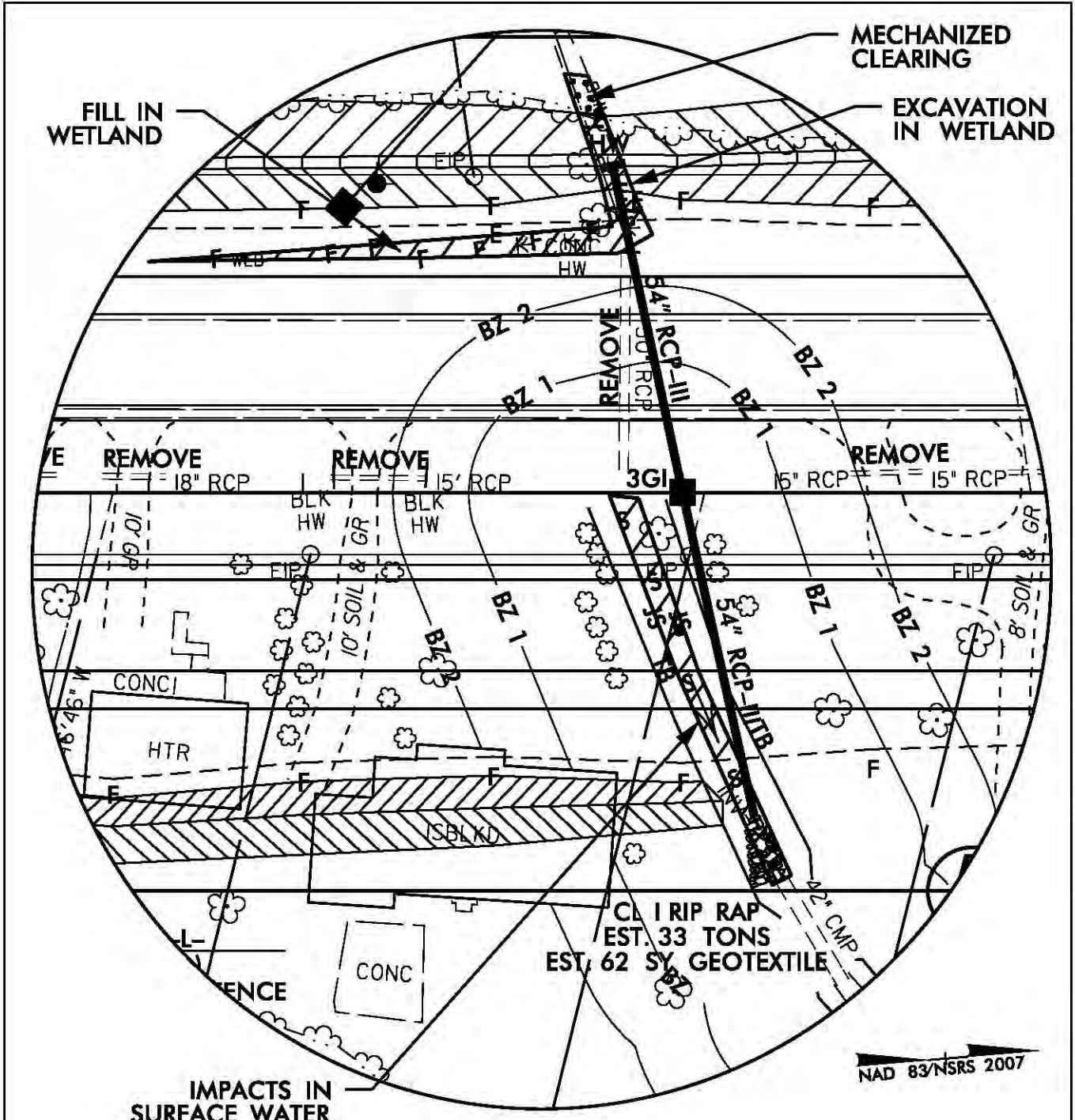


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epasiler
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REVISIONS

8/17/99

*****SYTIME*****
*****C:*****

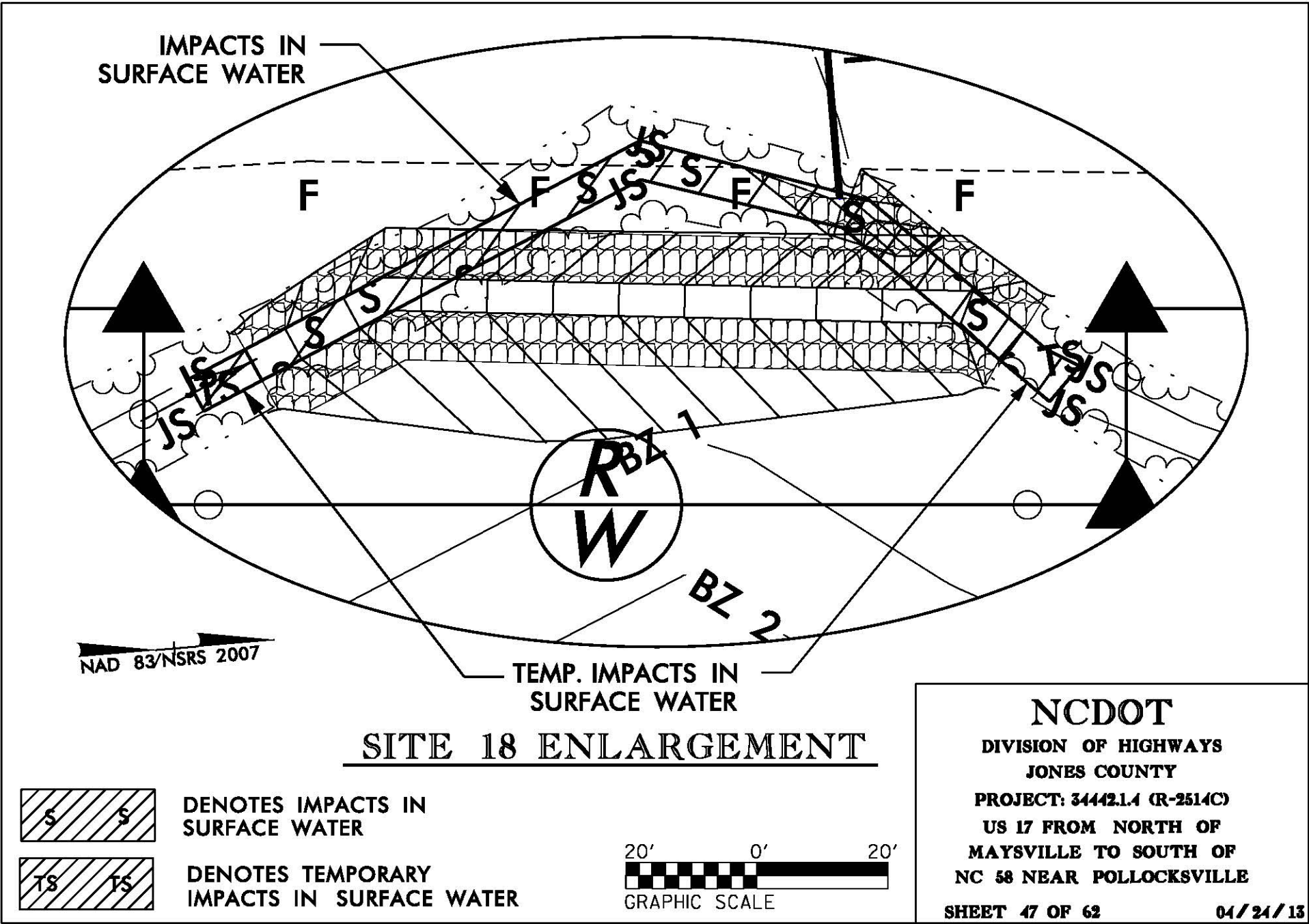


SITE 17 ENLARGEMENT

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



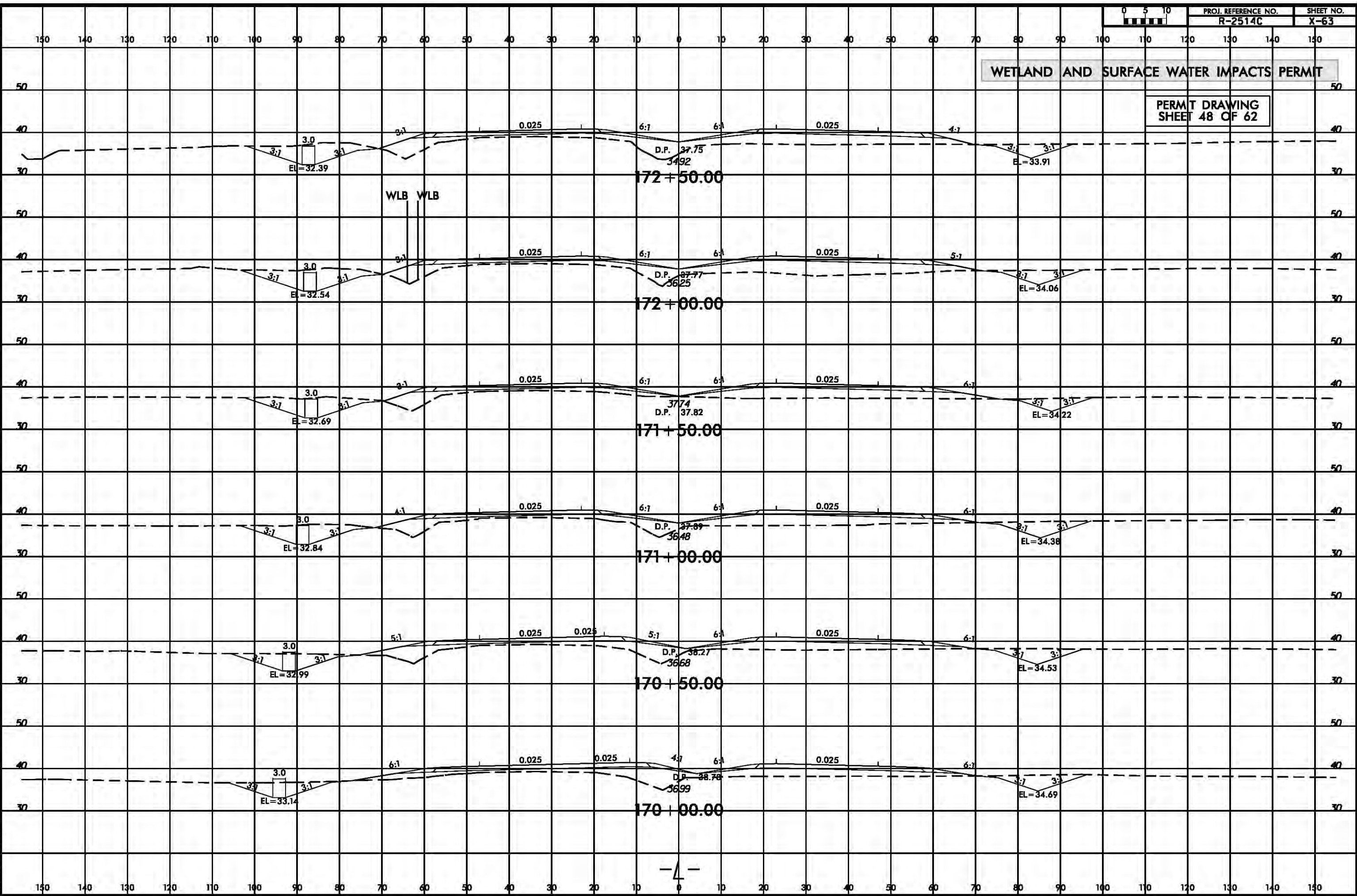
NCDOT
 DIVISION OF HIGHWAYS
 JONES COUNTY
 PROJECT: 34442.14 (R-2514C)
 US 17 FROM NORTH OF
 MAYSVILLE TO SOUTH OF
 NC 58 NEAR POLLOCKSVILLE
 SHEET 46 OF 62 04/24/13



B/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 48 OF 62



2/6/2014
epeller
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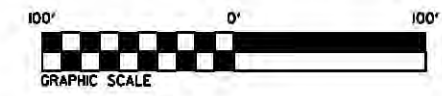
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USER: epeller

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

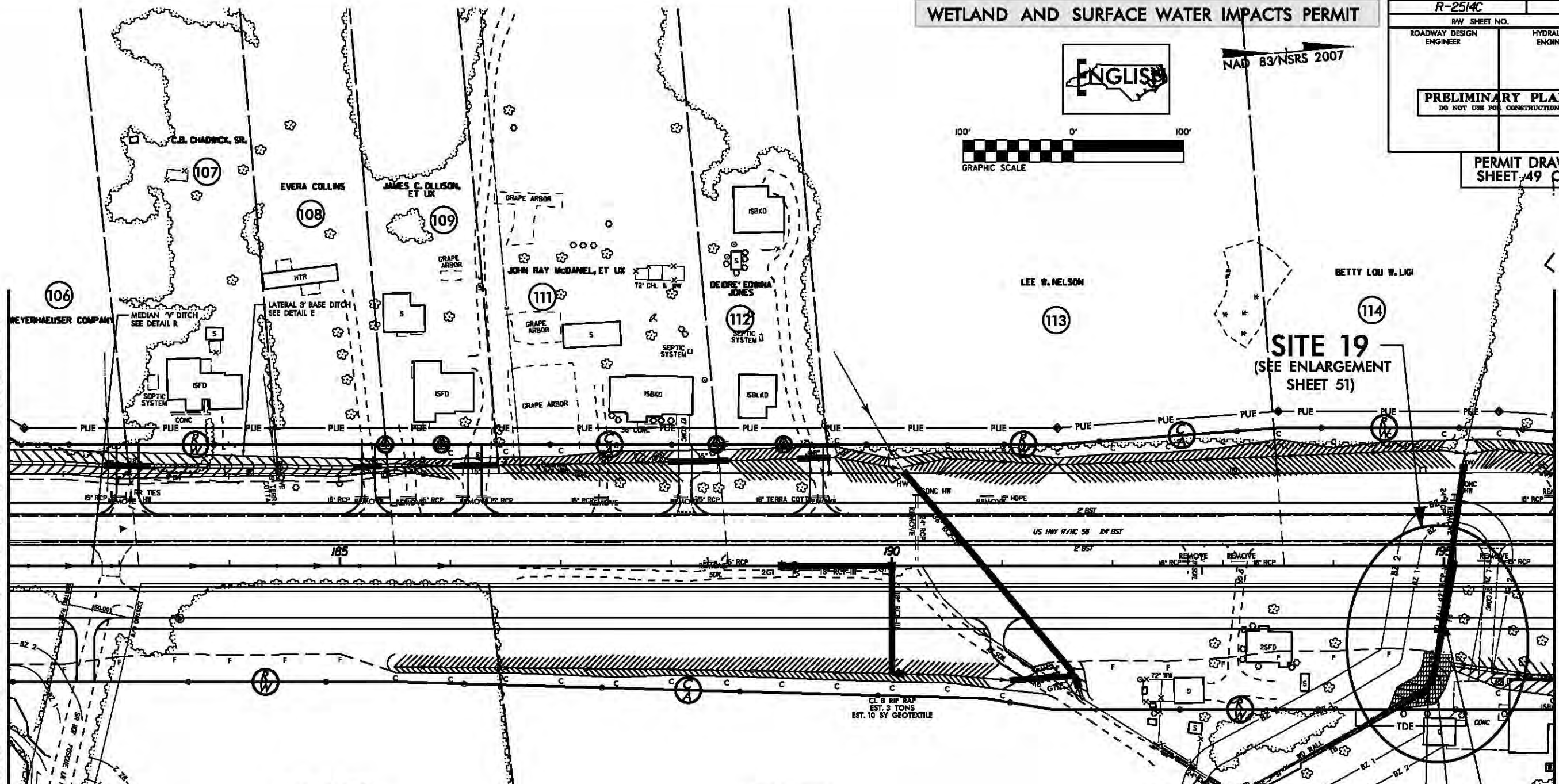


NAD 83/NSRS 2007

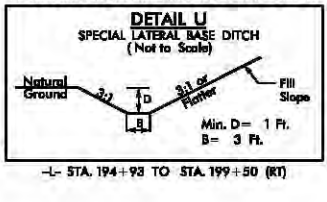
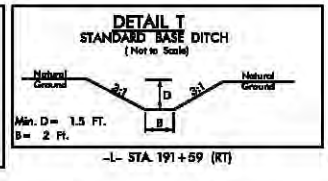
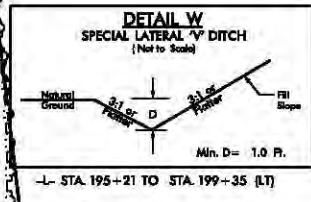
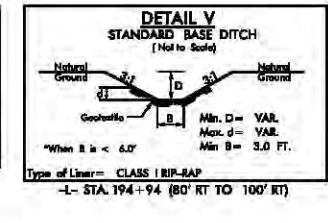
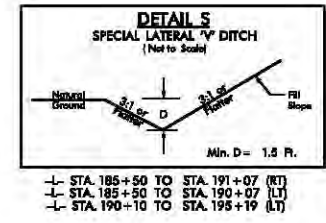
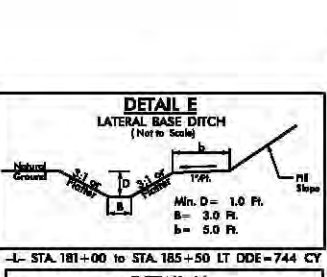
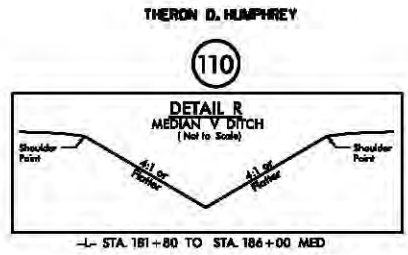
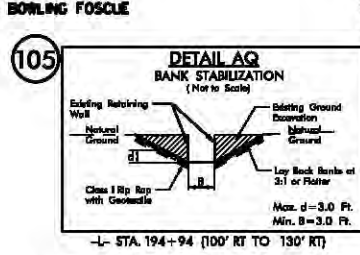


MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 16

MATCHLINE -L- STA. 196 + 00.00 SEE SHEET 18



REVISIONS
 R/W REVISION 02-10-14 (ONG) - REVISED THE C/A AND R/W TO A 130' OFFSET AND ADDED TDE FROM -L- STA 194+20.00 TO STA 195+20.00 RT. ON PARCEL 110 (THERON D. HUMPHREY)



TEMPORARY IMPACTS IN SURFACE WATER DUE TO BANK STABILIZATION

IMPACTS IN SURFACE WATER

DENOTES IMPACTS IN SURFACE WATER

WETLAND AND SURFACE WATER IMPACTS PERMIT

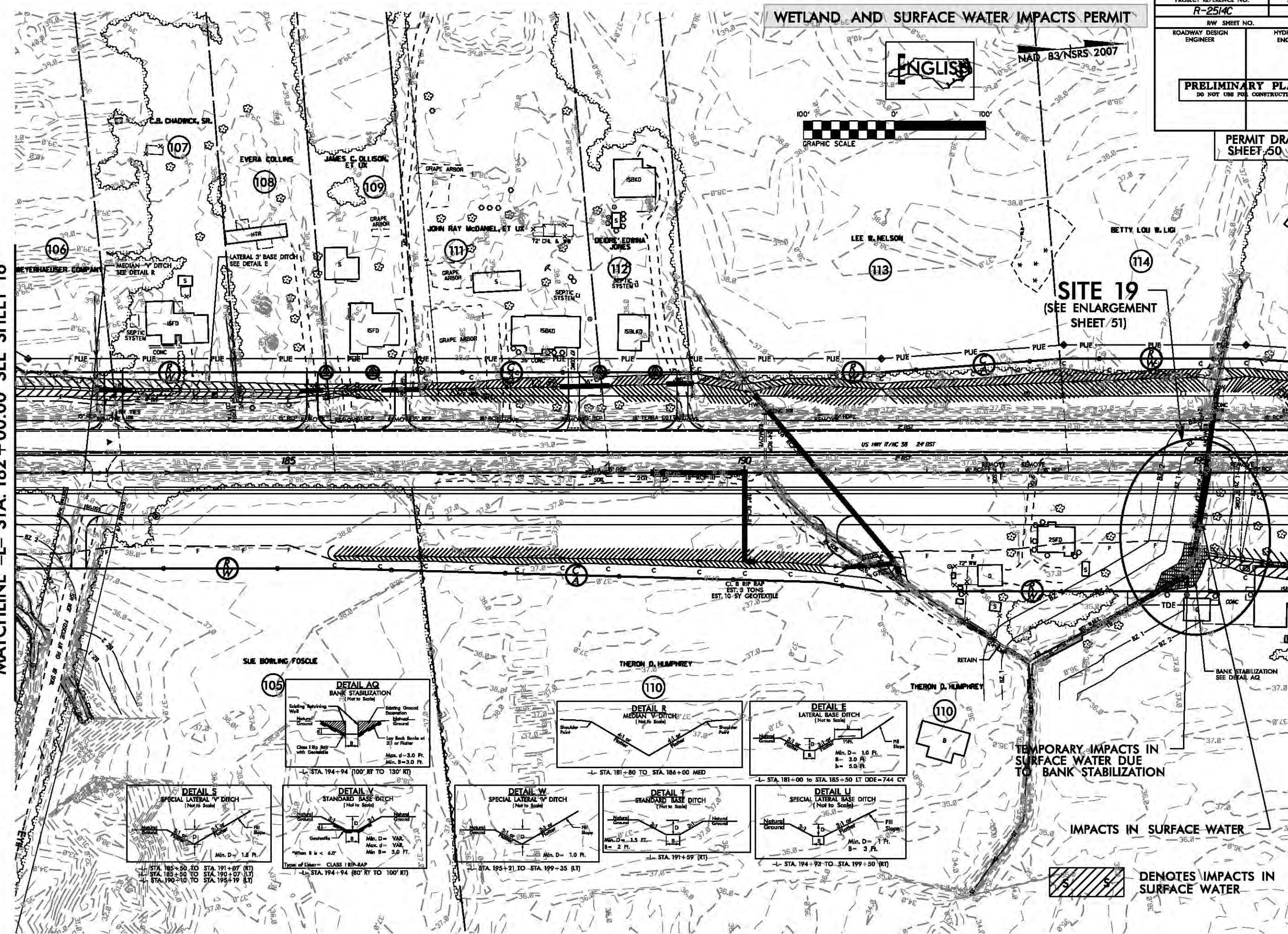
PROJECT REFERENCE NO. R-2514C	SHEET NO. 17
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 50 OF 62



MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 16

MATCHLINE -L- STA. 196 + 00.00 SEE SHEET 18

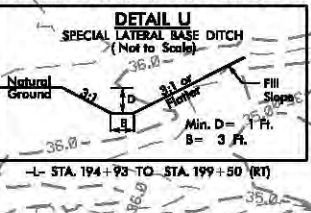
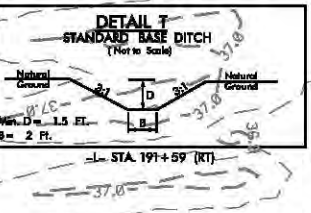
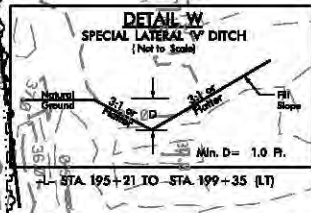
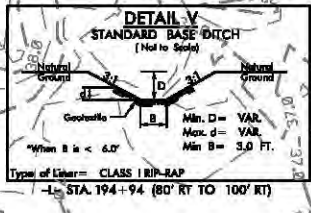
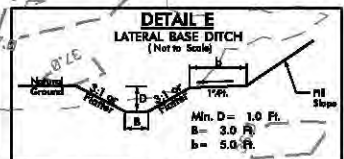
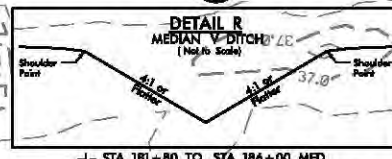
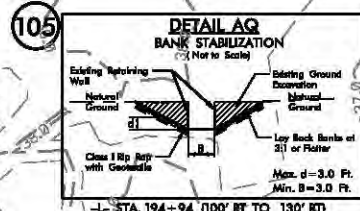


TEMPORARY IMPACTS IN SURFACE WATER DUE TO BANK STABILIZATION

IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN SURFACE WATER



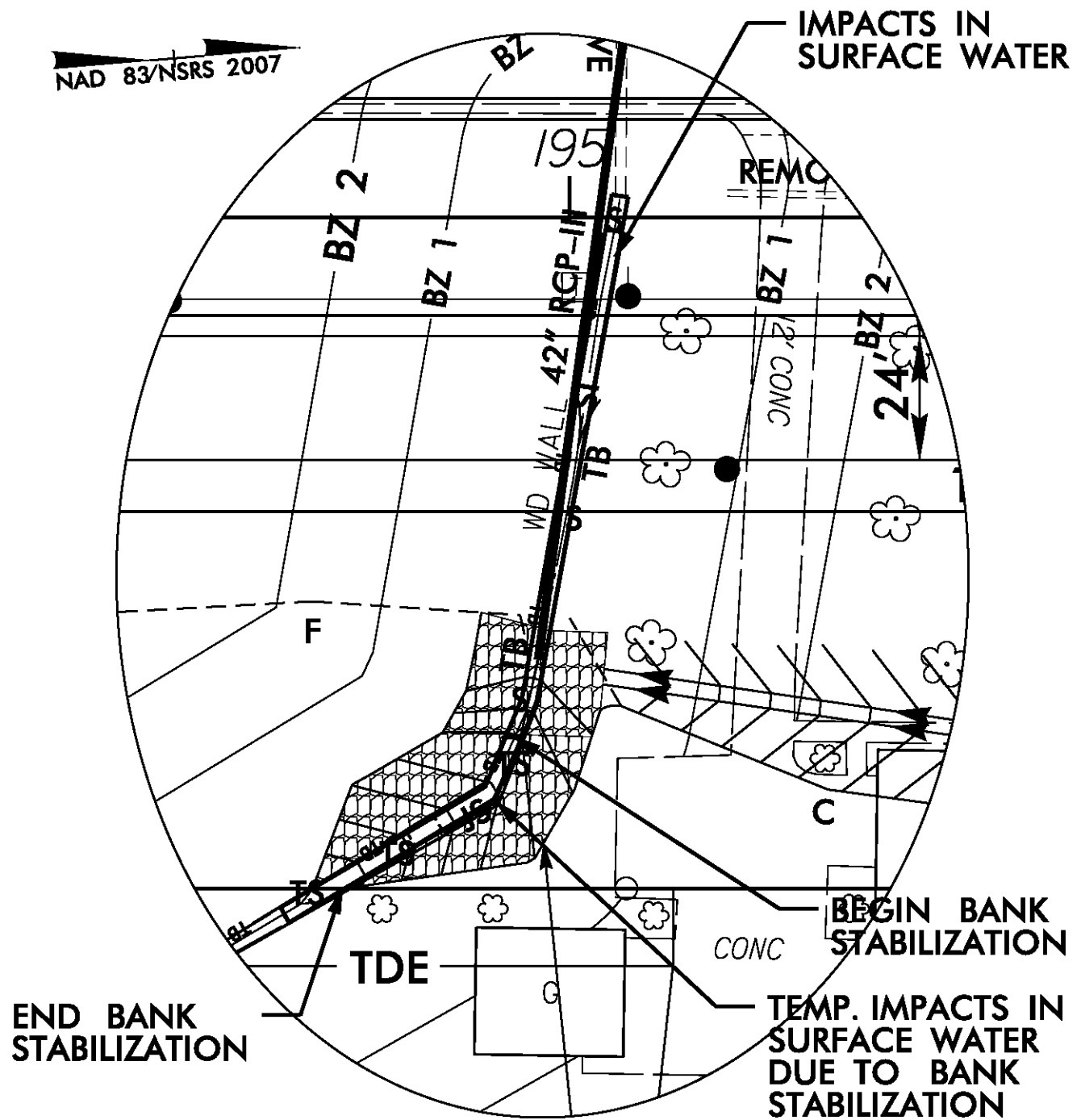
R/W REVISION 02-10-14 (ONG) - REVISED THE C/A AND R/W TO A 130' OFFSET AND ADDED TDE FROM -L- STA 194+20.00 TO STA 195+20.00 RT. ON PARCEL 110 (THERON D. HUMPHREY)

REVISIONS

8/17/99

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*****8/17/99*****

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SITE 19 ENLARGEMENT

 DENOTES IMPACTS IN SURFACE WATER

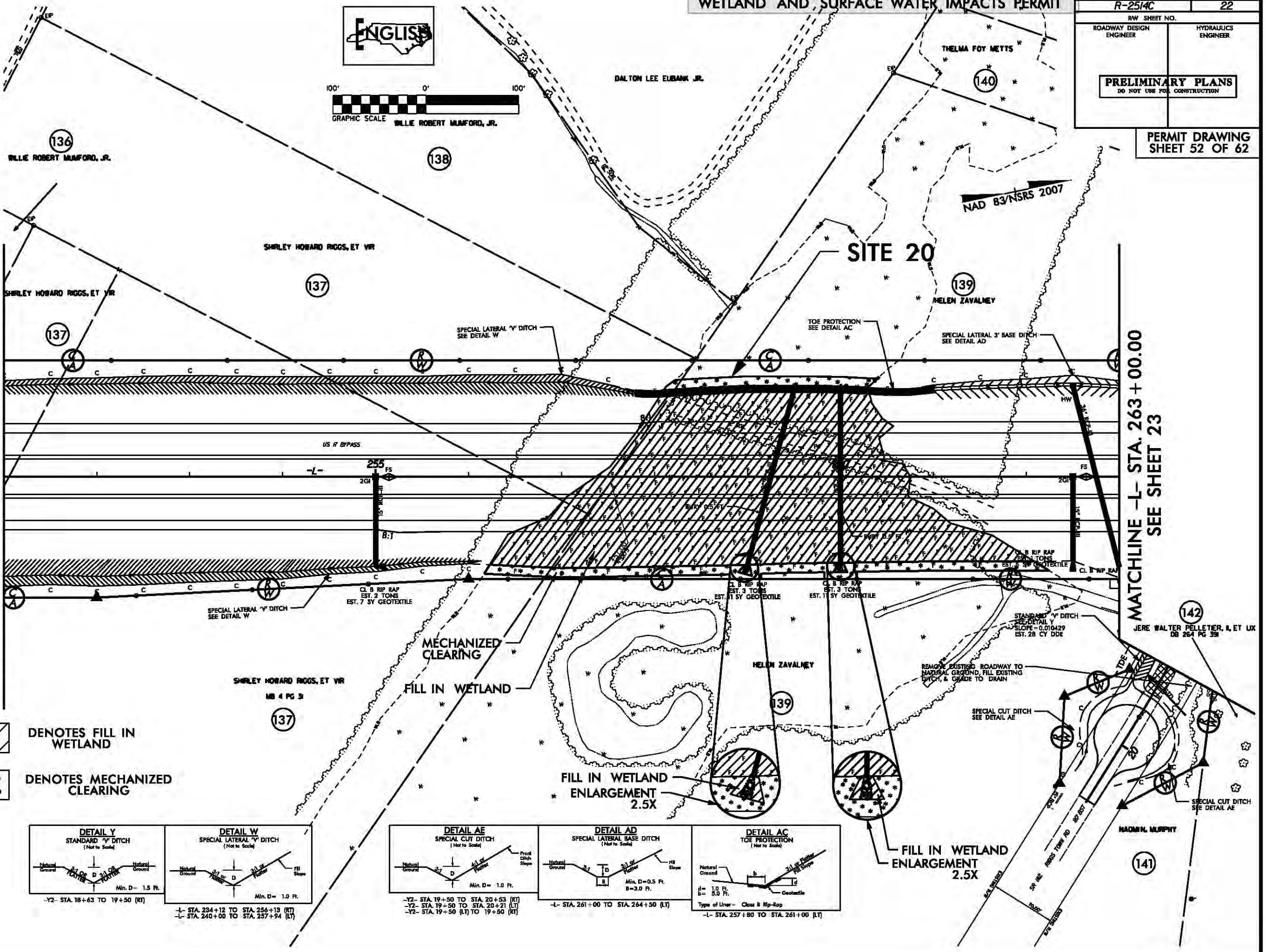
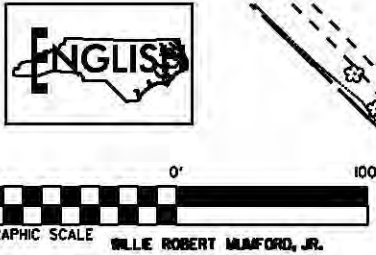


NCDOT
 DIVISION OF HIGHWAYS
 JONES COUNTY
 PROJECT: 34442.1.4 (R-2514C)
 US 17 FROM NORTH OF
 MAYSVILLE TO SOUTH OF
 NC 58 NEAR POLLOCKSVILLE
 SHEET 51 OF 62 04/24/13

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 22
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

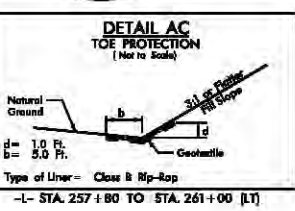
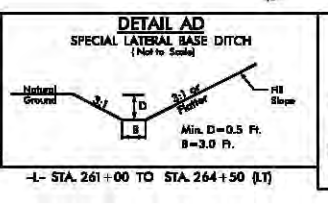
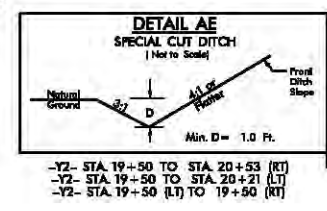
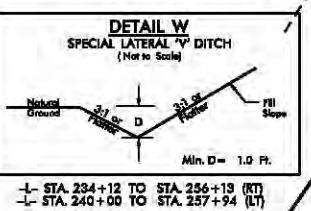
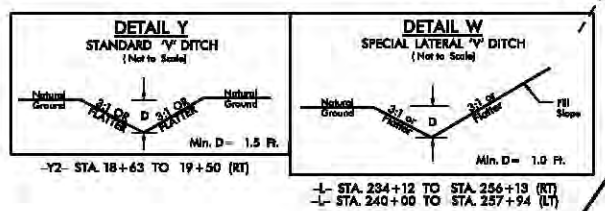
PERMIT DRAWING
SHEET 52 OF 62



MATCHLINE -L- STA. 251+00.00 SEE SHEET 21

MATCHLINE -L- STA. 263+00.00 SEE SHEET 23

- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING



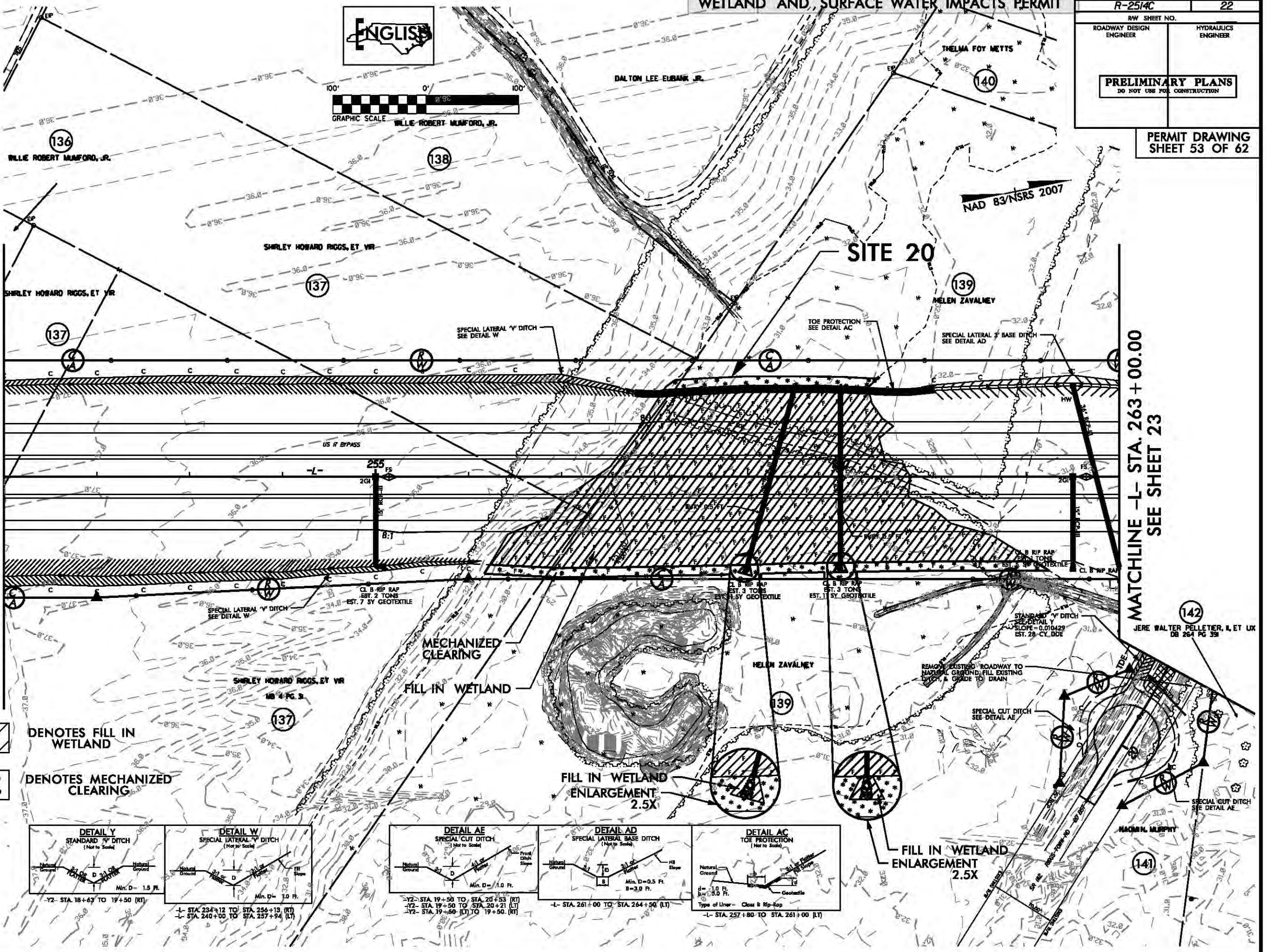
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*****SYTIME*****

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 22
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 53 OF 62

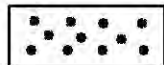


MATCHLINE -L- STA. 251+00.00 SEE SHEET 21

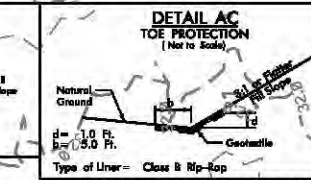
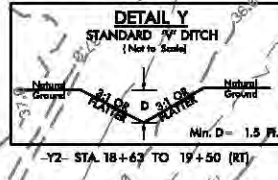
MATCHLINE -L- STA. 263+00.00
SEE SHEET 23



DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING



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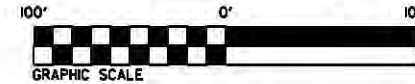
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WETLAND AND SURFACE WATER IMPACTS PERMIT

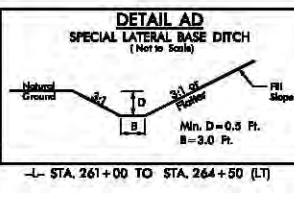
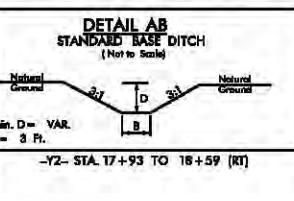
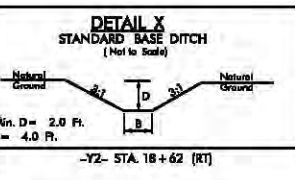
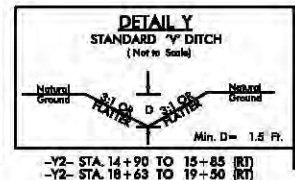
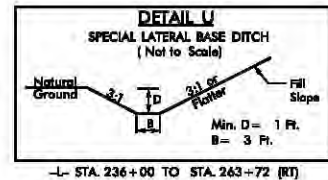
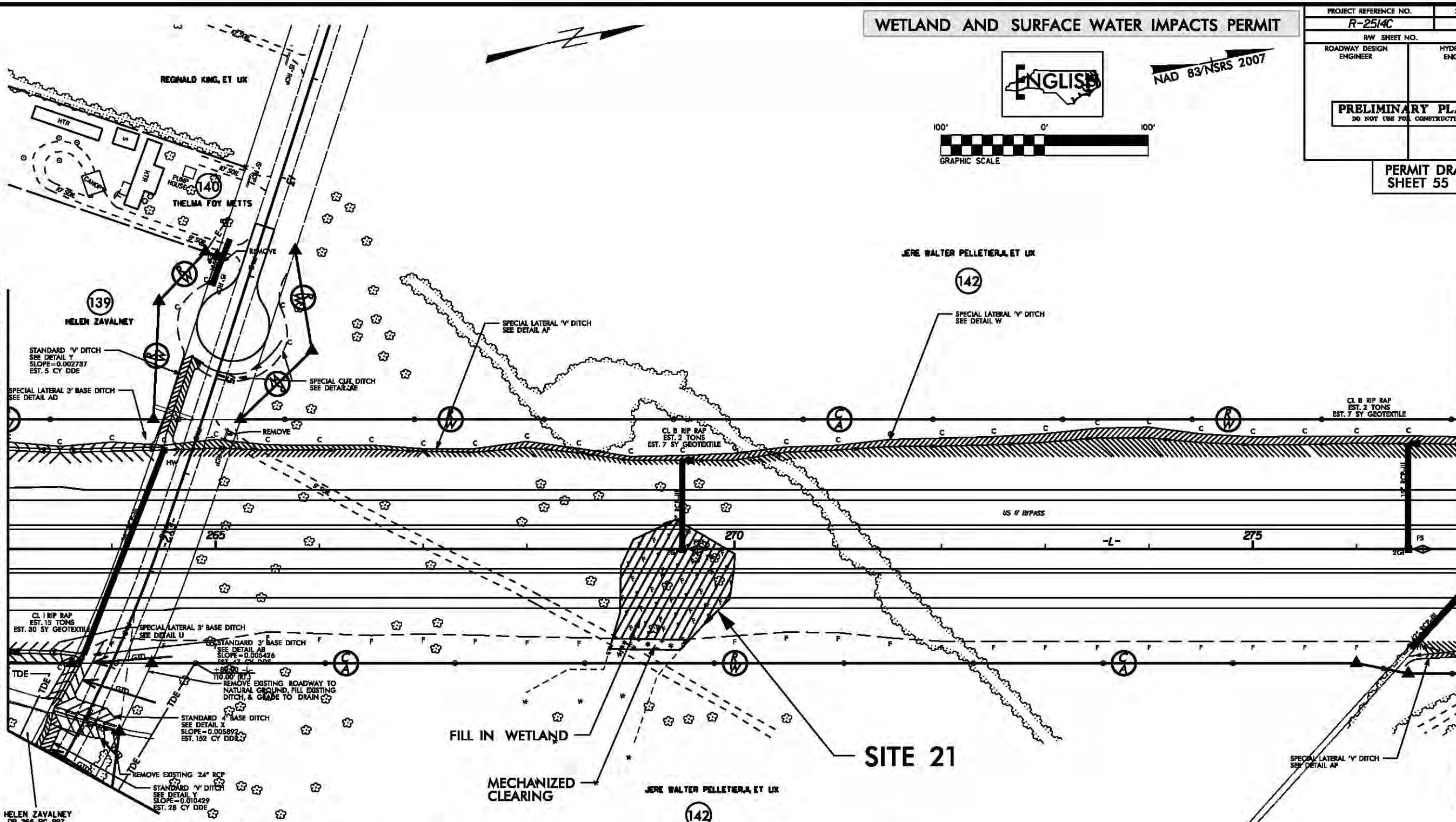
PROJECT REFERENCE NO. R-2514C	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 55 OF 62

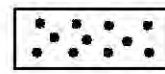


MATCHLINE -L- STA. 263+00.00 SEE SHEET 22

MATCHLINE -L- STA. 277+00.00 SEE SHEET 24



DENOTES FILL IN WETLAND



DENOTES MECHANIZED CLEARING

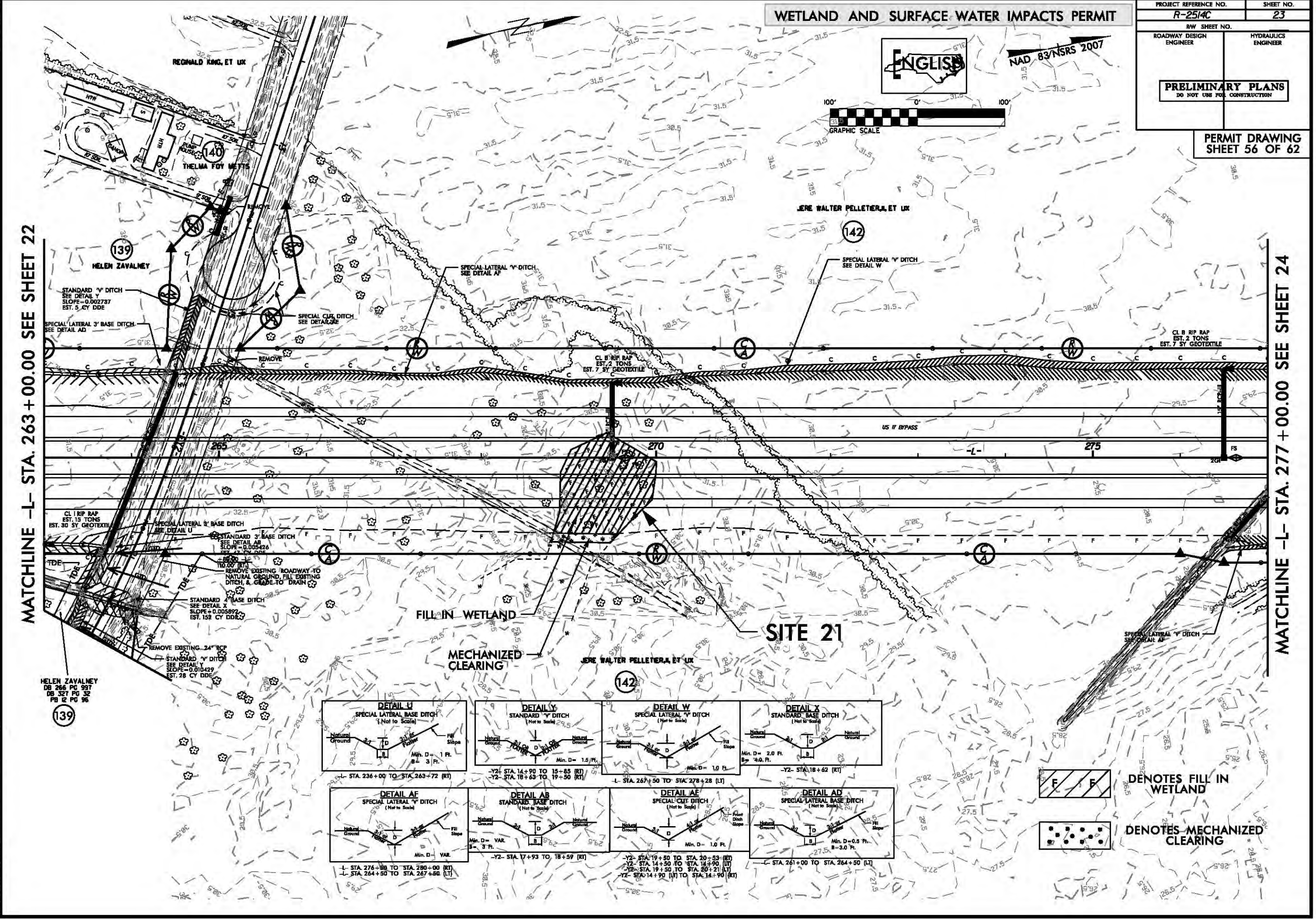
4/23/2014
 epsseiler
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 REVISIONS

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 *****SYTIME*****

WETLAND AND SURFACE WATER IMPACTS PERMIT

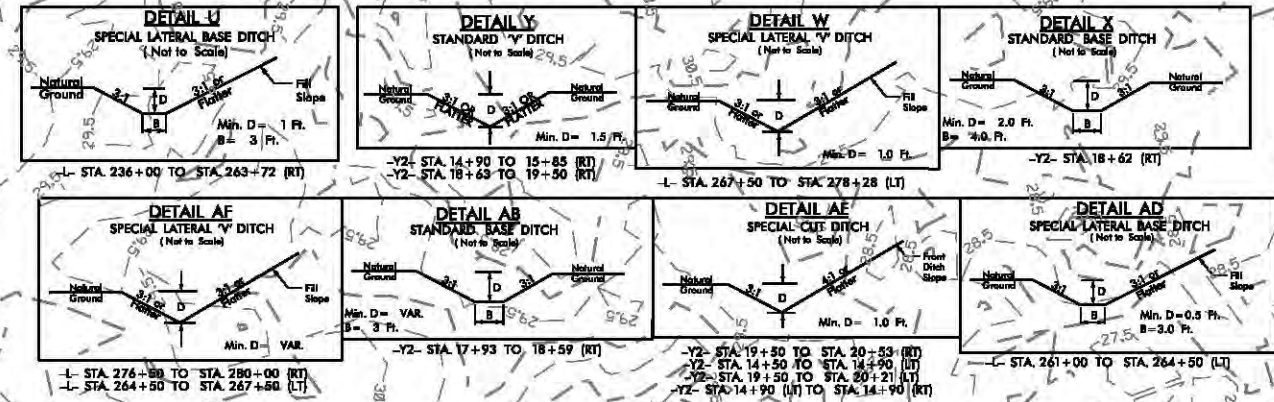
PROJECT REFERENCE NO. R-2514C	SHEET NO. 23
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 56 OF 62



MATCHLINE -L- STA. 263 + 00.00 SEE SHEET 22

MATCHLINE -L- STA. 277 + 00.00 SEE SHEET 24



F DENOTES FILL IN WETLAND

••• DENOTES MECHANIZED CLEARING

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 REVISIONS

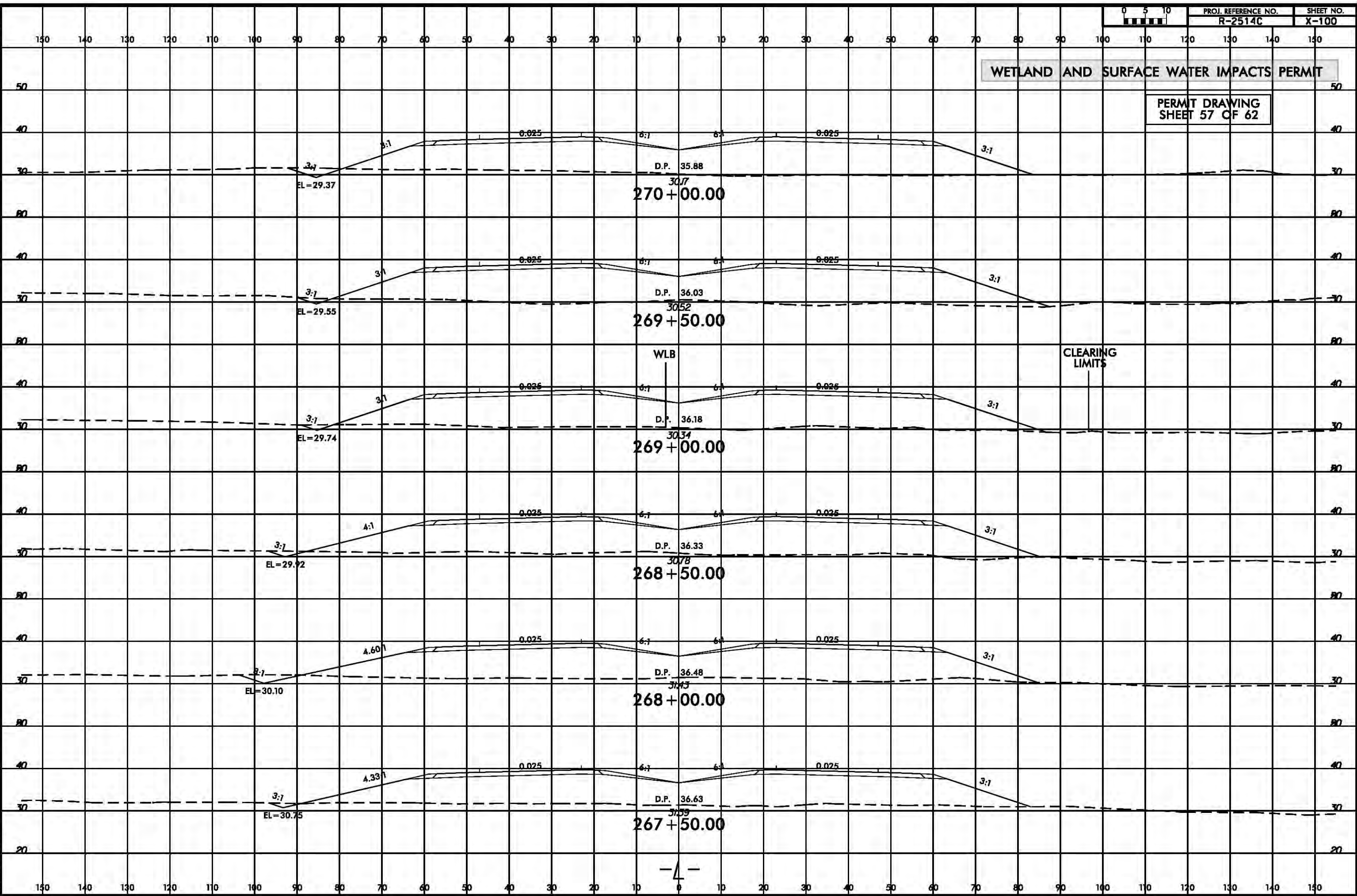
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WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING
SHEET 57 OF 62



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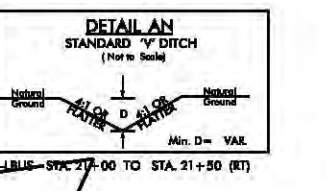
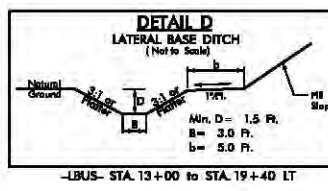
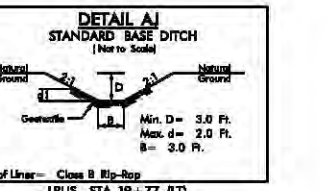
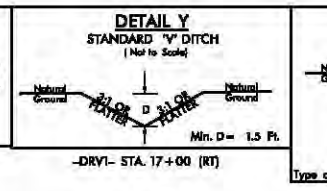
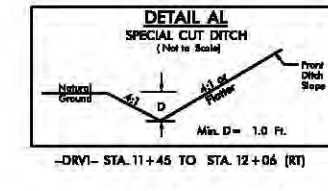
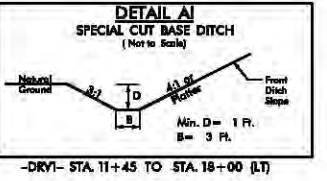
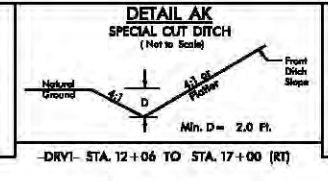
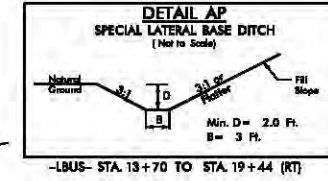
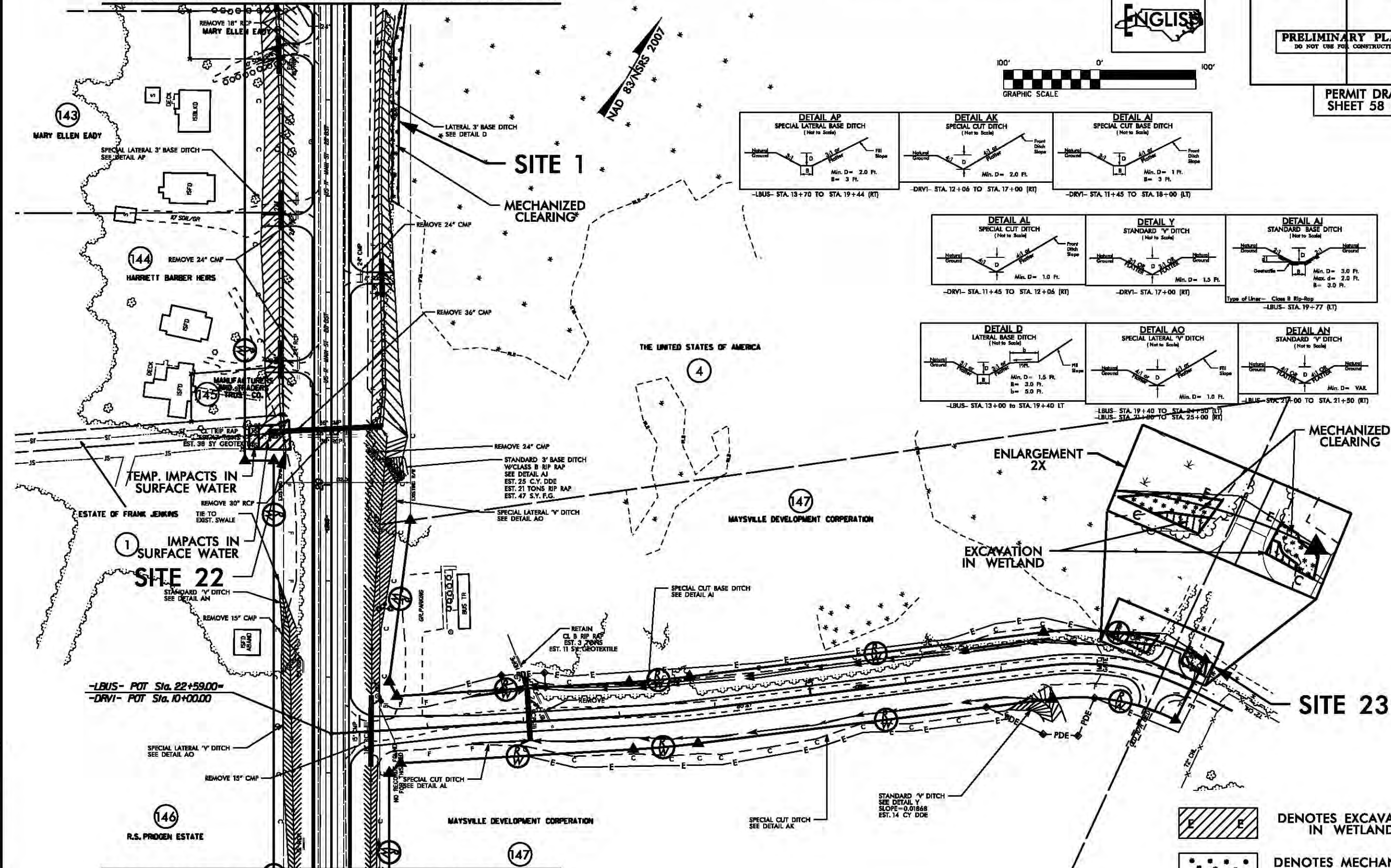
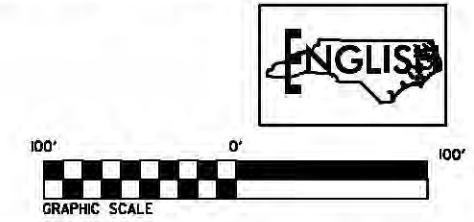
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USER: epeller

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING SHEET 58 OF 62

MATCHLINE -LBUS- STA. 15+00.00 SEE SHEET 4



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

MATCHLINE -LBUS- STA. 24+00.00 SEE SHEET 27

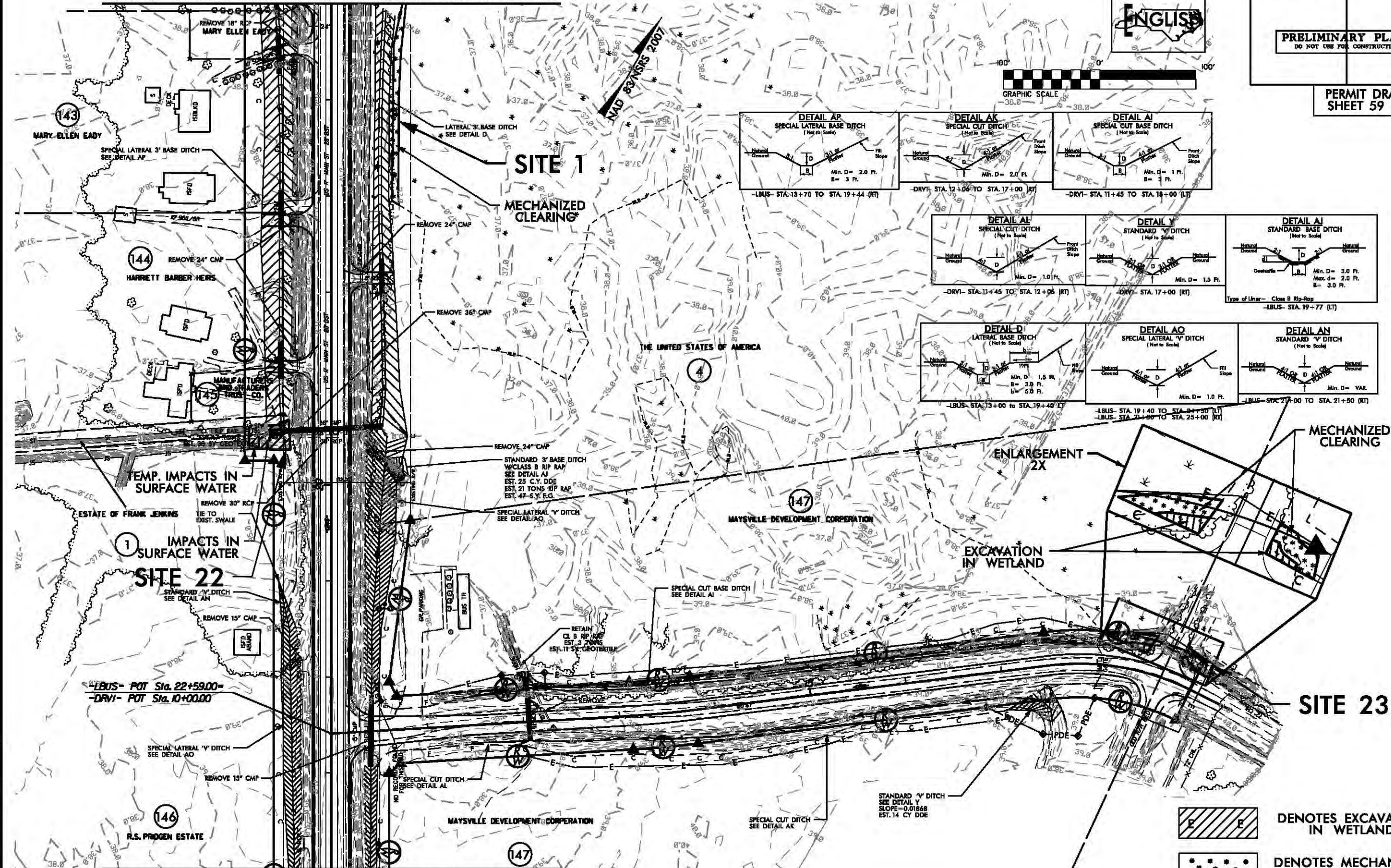
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 REVISIONS
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 *****SYTIME*****

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING SHEET 59 OF 62

MATCHLINE -LBUS- STA. 15+00.00 SEE SHEET 4



MATCHLINE -LBUS- STA. 24+00.00 SEE SHEET 27

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

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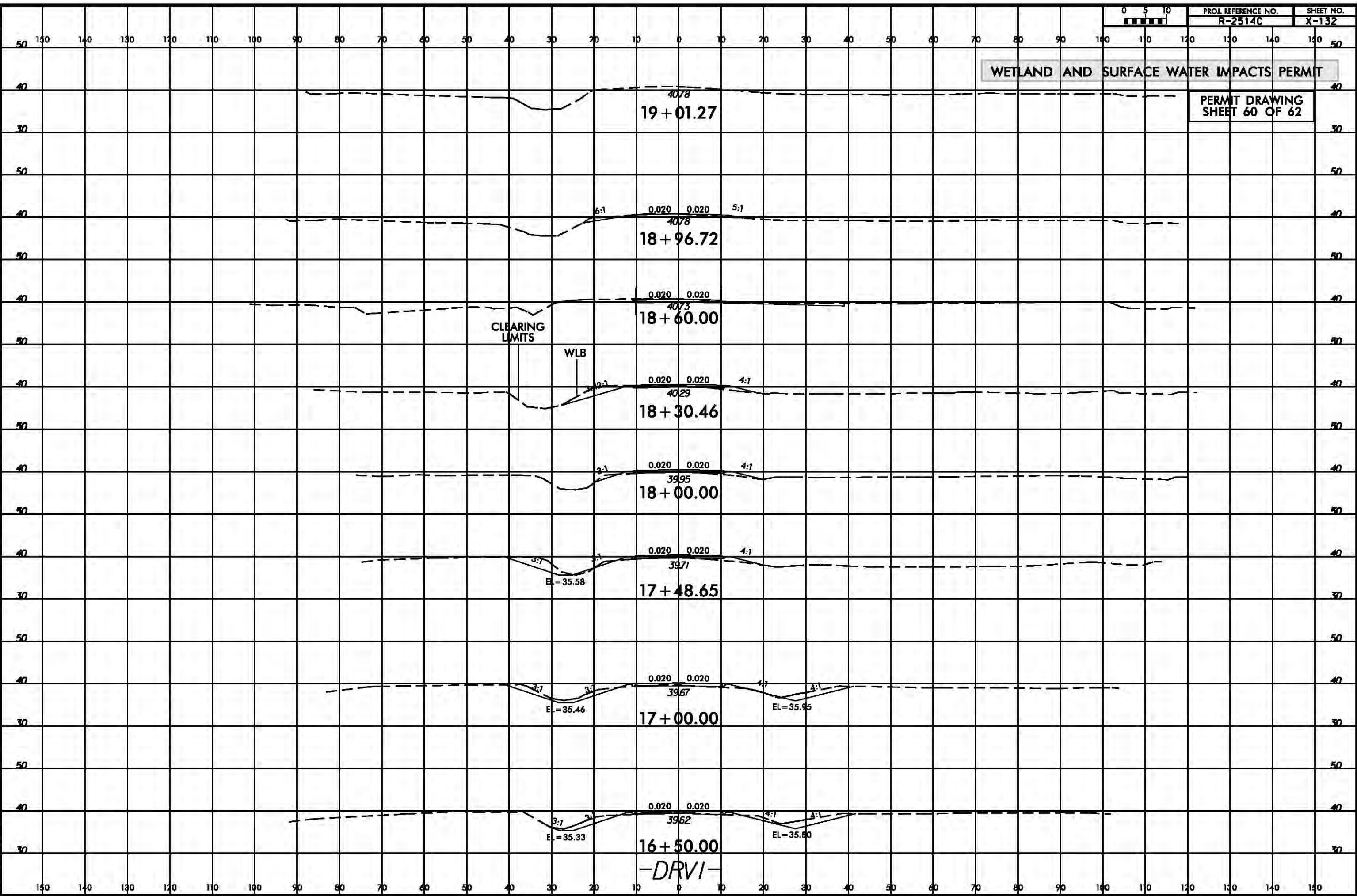
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PROJ. REFERENCE NO. R-2514C SHEET NO. X-132

WETLAND AND SURFACE WATER IMPACTS PERMIT

PERMIT DRAWING SHEET 60 OF 62



4078
19 + 01.27

4078
18 + 96.72

4073
18 + 60.00

4029
18 + 30.46

3995
18 + 00.00

3971
17 + 48.65

3967
17 + 00.00

3962
16 + 50.00

-DRVI-

CLEARING LIMITS

WLB

EL = 35.58

EL = 35.46

EL = 35.33

EL = 35.95

EL = 35.80

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SYTIME

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS				
			CAMA Permanent Fill In Wetlands (ac)	404 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)
1	-L- STA 10+00 TO -L- STA 19+49	ROADWAY		3.65			0.42	<0.01					
2	-L- STA 21+50 RT	ROADWAY		0.09			0.04						
3	-L- STA 24+00 LT	18" RCP		<0.01		0.04	0.02						
4	-L- STA 22+95 RT TO -L- STA 84+82 RT	ROADWAY		6.82			1.43						
4	-L- STA 30+11 LT	ROADWAY						<0.01					
5	-L- STA 24+30 LT	ROADWAY		0.03		0.11	0.11						
6	-L- STA 62+27 LT TO -L- STA 84+82 LT	ROADWAY				<0.01	0.03	<0.01					
*7	-L- STA 76+79 LT TO -L- STA 82+96 RT	ROADWAY		0.26		0.01	0.08						
8	-L- STA 87+00 RT	ROADWAY		0.64			0.09						
9	-L- STA 90+56 TO -L- STA 97+96	ROADWAY		0.89			0.17						
10	-L- STA 99+50 RT TO -L- STA 105+79 RT	BRIDGE		0.95			0.15						
11	-L- STA 106+50 LT	ROADWAY				<0.01	0.03						
12	-L- STA 118+16 RT TO -L- STA 124+70 RT	ROADWAY		0.45			0.05						
**SUBTOTALS THIS SHEET:			0.00	13.78	0.00	0.17	2.60	<0.01	0.00	0.00	0	0	0

NOTES:

*Site 7 has an additional 0.06ac of unimpacted wetlands that are considered part of a total take but are not included in the impact summary table quantities above.

** Totals may not match sum of individual impacts due to rounding.

N.C.D.O.T.
 DIVISION OF HIGHWAYS
 JONES COUNTY
 PROJECT: 34442.1.4 (R-2514C)
 US 17 FROM NORTH OF MAYSVILLE TO
 SOUTH OF NC 58 NEAR POLLOCKSVILLE
 SHEET 61 OF 62 (REV 1/30/2015)

WETLAND PERMIT IMPACT SUMMARY													
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS						SURFACE WATER IMPACTS				
			CAMA Permanent Fill In Wetlands (ac)	404 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)
13	-L- STA 127+87 TO -L- STA 131+32	ROADWAY		0.34		<0.01	0.11						
14	-L- STA 133+26 RT TO -L- STA 151+44 RT	ROADWAY		1.52			0.41						
15	-L- STA 143+74 LT TO -L- STA 151+54 LT	ROADWAY		0.05		0.15	0.09						
16	-L- STA 159+00 TO -L- STA 164+07	ROADWAY		0.51		0.06	0.16						
17	-L- STA 172+50	54" RCP		0.01		<0.01	<0.01	0.01		109			
18	-L- STA 180+50 LT	ROADWAY						0.02	<0.01	132	20		
19	-L- STA 194+89 -L- STA 195+00	BANK STABILIZATION** 42" RCP						0.01	<0.01**	106	58**		
20	-L- STA 256+16 TO -L- STA 262+25	ROADWAY & 2-30" RCP		1.58			0.20						
21	-L- STA 269+40	ROADWAY		0.23			0.02						
22	-L-BUS- STA 19+40 RT	48" RCP						0.02	0.01	32	10		
23	-DRV1- STA 18+60 LT	ROADWAY				0.01	0.02						
***1D	-DET3- STA 18+54 TO -DET3- STA 22+60	DETOUR 3						0.03					
***2D	-DET3- STA 25+93 TO -DET3- STA 28+54	DETOUR 3			0.08			0.05					
*SUBTOTALS THIS SHEET:			0	4.24	0.08	0.23	1.00	0.08	0.06	0.01	379	88	0
*SUBTOTALS SHEET 1:			0	13.78	0.00	0.17	2.60	<0.01	0.00	0.00	0	0	0
*TOTALS:			0	18.02	0.08****	0.40	3.60	0.08****	0.06	0.01	379	88	0

NOTES:

* Totals may not match sum of individual impacts due to rounding.

** Bank Stabilization at Site 19 is due to placement of rip rap on sides of channel where existing retaining wall is removed and more natural geometry restored to channel.

*** Detour impacts shown on separate DETOUR PERMIT DRAWINGS (6 sheets)

****0.01 acre of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures

N.C.D.O.T.
DIVISION OF HIGHWAYS
JONES COUNTY
PROJECT: 34442.1.4 (R-2514C)
US 17 FROM NORTH OF MAYSVILLE TO
SOUTH OF NC 58 NEAR POLLOCKSVILLE

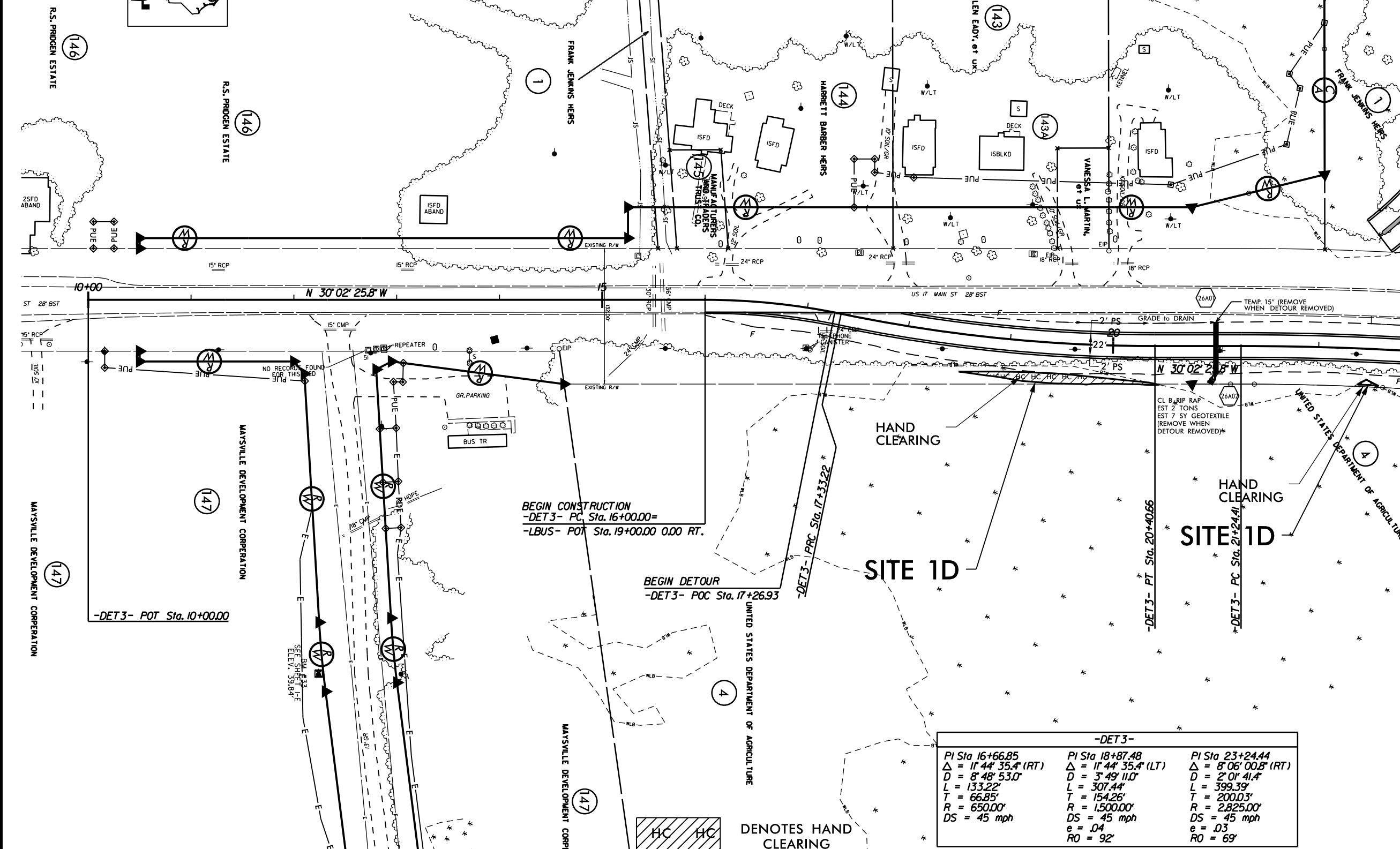
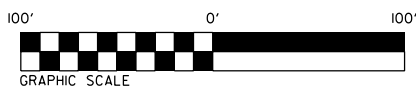
-DET3- DETOUR SHEET

NOTE: USE FOR CONSTRUCTION OF DETOUR ONLY

WETLAND AND SURFACE WATER IMPACTS PERMIT

NOTE: ONLY ADDITIONAL IMPACTS DUE TO TEMPORARY DETOUR ARE SHOWN.
SEE PROPOSED FINAL PROJECT PERMIT DRAWINGS FOR OTHER IMPACTS.

PROJECT REFERENCE NO. R-2514C	SHEET NO. 26A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
ADDED 2/3/15	
DETOUR PERMIT DRAWING SHEET 1 OF 6	



BEGIN DETOUR
-DET3- POC Sta. 17+26.93

-DET3-		
PI Sta 16+66.85	PI Sta 18+87.48	PI Sta 23+24.44
$\Delta = 11' 44" 35.4" (RT)$	$\Delta = 11' 44" 35.4" (LT)$	$\Delta = 8' 06" 00.8" (RT)$
$D = 8' 48" 53.0"$	$D = 3' 49" 11.0"$	$D = 2' 01' 41.4"$
$L = 133.22'$	$L = 307.44'$	$L = 399.39'$
$T = 66.85'$	$T = 154.26'$	$T = 200.03'$
$R = 650.00'$	$R = 1500.00'$	$R = 2,825.00'$
$DS = 45 \text{ mph}$	$DS = 45 \text{ mph}$	$DS = 45 \text{ mph}$
	$e = .04$	$e = .03$
	$RO = 92'$	$RO = 69'$



HC HC DENOTES HAND CLEARING

MATCHLINE -DET3- STA. 23+00.00 SEE SHEET 26B

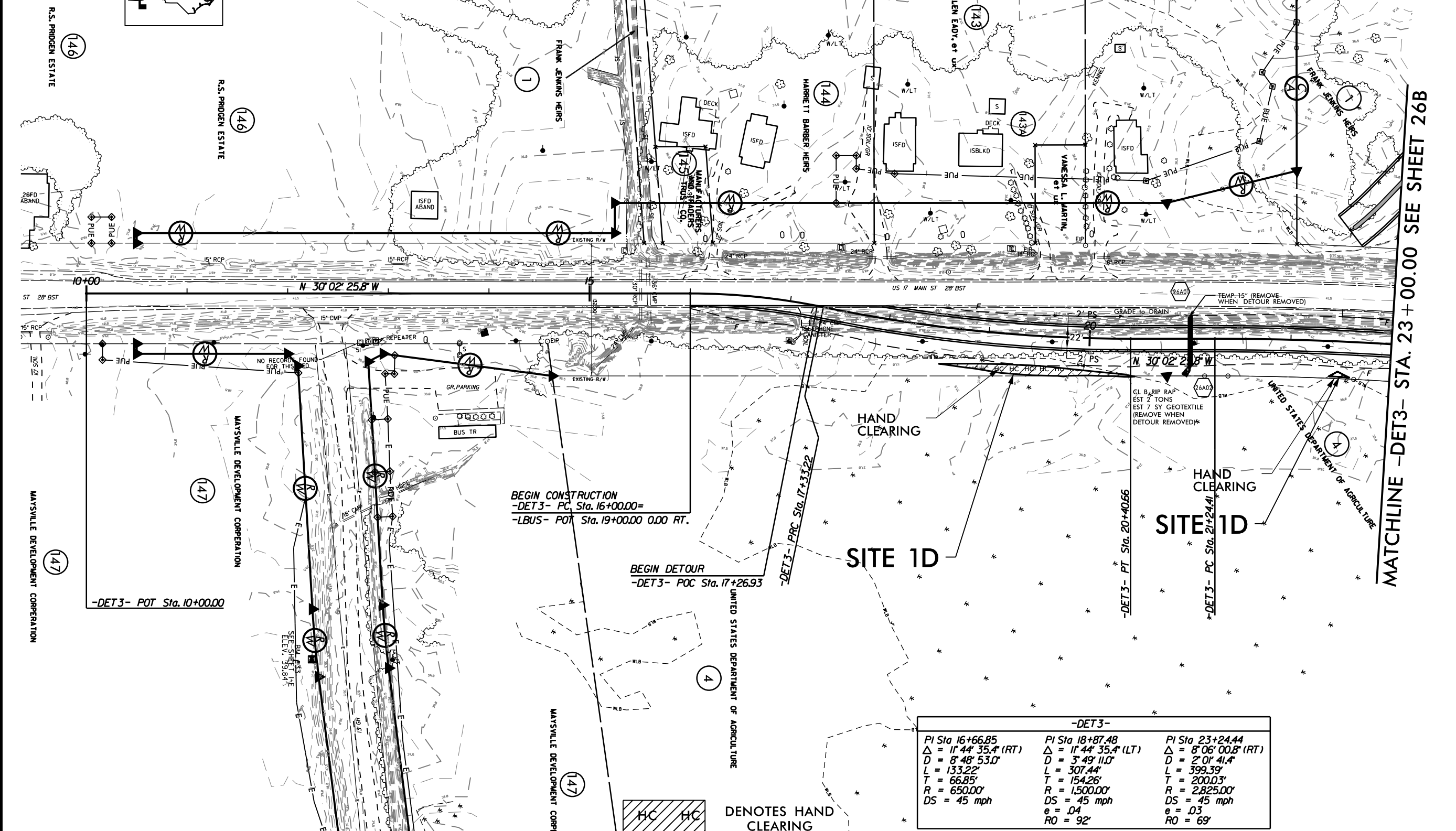
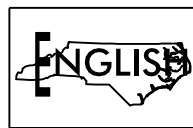
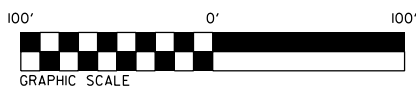
-DET3- DETOUR SHEET

NOTE: USE FOR CONSTRUCTION OF DETOUR ONLY

WETLAND AND SURFACE WATER IMPACTS PERMIT

NOTE: ONLY ADDITIONAL IMPACTS DUE TO TEMPORARY DETOUR ARE SHOWN.
SEE PROPOSED FINAL PROJECT PERMIT DRAWINGS FOR OTHER IMPACTS.

PROJECT REFERENCE NO. R-2514C	SHEET NO. 26A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
ADDED 2/3/15	
DETOUR PERMIT DRAWING SHEET 2 OF 6	



R.S. PRIDGEN ESTATE (146)

R.S. PRIDGEN ESTATE (146)

FRANK JENKINS HEIRS (1)

HARRETT BARBER HEIRS (144)

MARY ELLEN EADY, ET AL (143)

VANESSA L. MARTIN, ET AL (143A)

FRANK JENKINS HEIRS (1)

MAYSVILLE DEVELOPMENT CORPORATION (147)

MAYSVILLE DEVELOPMENT CORPORATION (147)

MAYSVILLE DEVELOPMENT CORP (147)

UNITED STATES DEPARTMENT OF AGRICULTURE (4)

UNITED STATES DEPARTMENT OF AGRICULTURE (4)

BEGIN CONSTRUCTION
-DET3- PC Sta. 16+00.00=
-LBUS- POT Sta. 19+00.00 0.00 RT.

BEGIN DETOUR
-DET3- POC Sta. 17+26.93

-DET3- I-PC Sta. 17+33.22

-DET3- PT Sta. 20+40.66

-DET3- PC Sta. 21+24.41

-DET3-		
PI Sta 16+66.85	PI Sta 18+87.48	PI Sta 23+24.44
$\Delta = 11' 44' 35.4''$ (RT)	$\Delta = 11' 44' 35.4''$ (LT)	$\Delta = 8' 06' 00.8''$ (RT)
$D = 8' 48' 53.0''$	$D = 3' 49' 11.0''$	$D = 2' 01' 41.4''$
$L = 133.22'$	$L = 307.44'$	$L = 399.39'$
$T = 66.85'$	$T = 154.26'$	$T = 200.03'$
$R = 650.00'$	$R = 1500.00'$	$R = 2,825.00'$
$DS = 45$ mph	$DS = 45$ mph	$DS = 45$ mph
	$e = .04$	$e = .03$
	$RO = 92'$	$RO = 69'$



HC HC DENOTES HAND CLEARING

MATCHLINE -DET3- STA. 23+00.00 SEE SHEET 26B

8/23/99



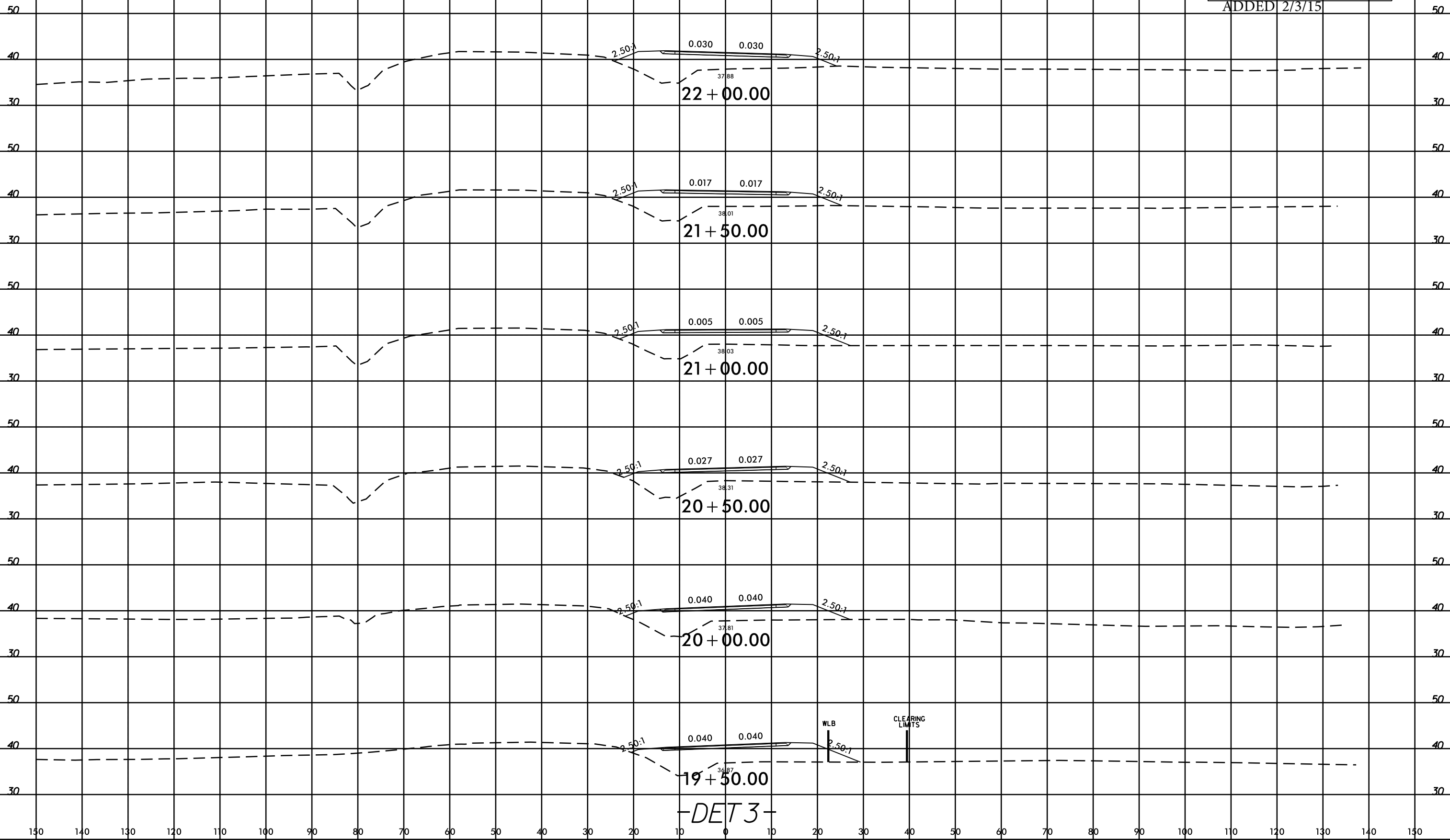
PROJ. REFERENCE NO.
R-2514C

SHEET NO.
X-137

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

WETLAND AND SURFACE WATER IMPACTS PERMIT

DETOUR PERMIT DRAWING
SHEET 3 OF 6
ADDED 2/3/15



\$\$\$SYTIME\$\$\$
\$\$\$SY-DWG\$\$\$
\$\$\$SY-USER\$\$\$

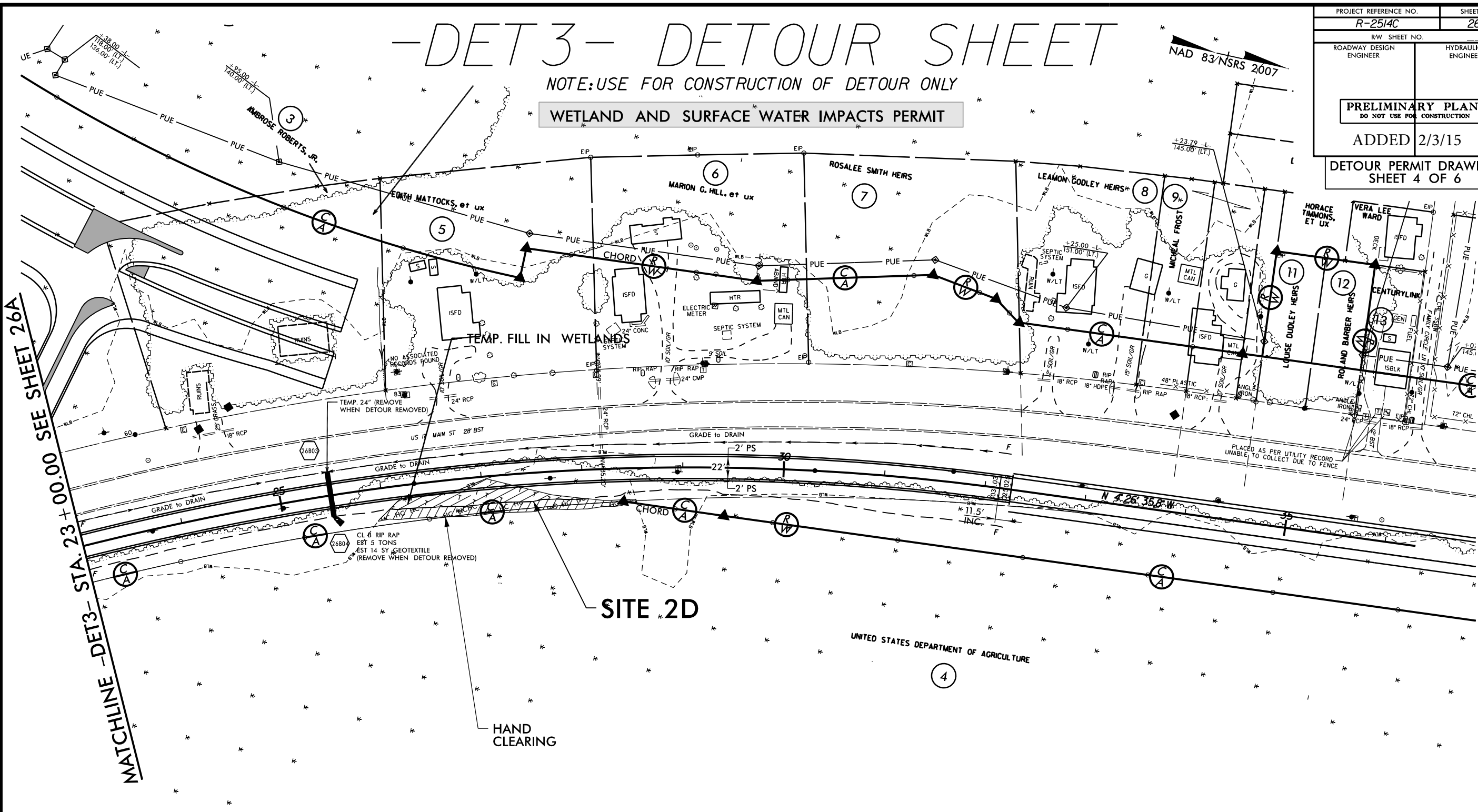
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-DET3- DETOUR SHEET

NOTE: USE FOR CONSTRUCTION OF DETOUR ONLY

WETLAND AND SURFACE WATER IMPACTS PERMIT

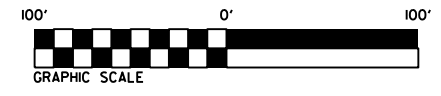
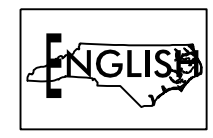
PROJECT REFERENCE NO. R-2514C	SHEET NO. 26B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
ADDED 2/3/15	
DETOUR PERMIT DRAWING SHEET 4 OF 6	



MATCHLINE -DET3- STA. 23+00.00 SEE SHEET 26A

HC HC DENOTES HAND CLEARING
T T DENOTES TEMPORARY FILL IN WETLAND

-DET3-	
PI Sta 23+24.44	PI Sta 28+77.74
$\Delta = 8^{\circ}06'00.8''$ (RT)	$\Delta = 17^{\circ}29'49.2''$ (RT)
D = 2'01'41.4"	D = 2'29'28.0"
L = 399.39'	L = 702.37'
T = 200.03'	T = 353.94'
R = 2825.00'	R = 2300.00'
DS = 45 mph	DS = 45 mph
e = .03	e = .03
RO = 69'	RO = 69'

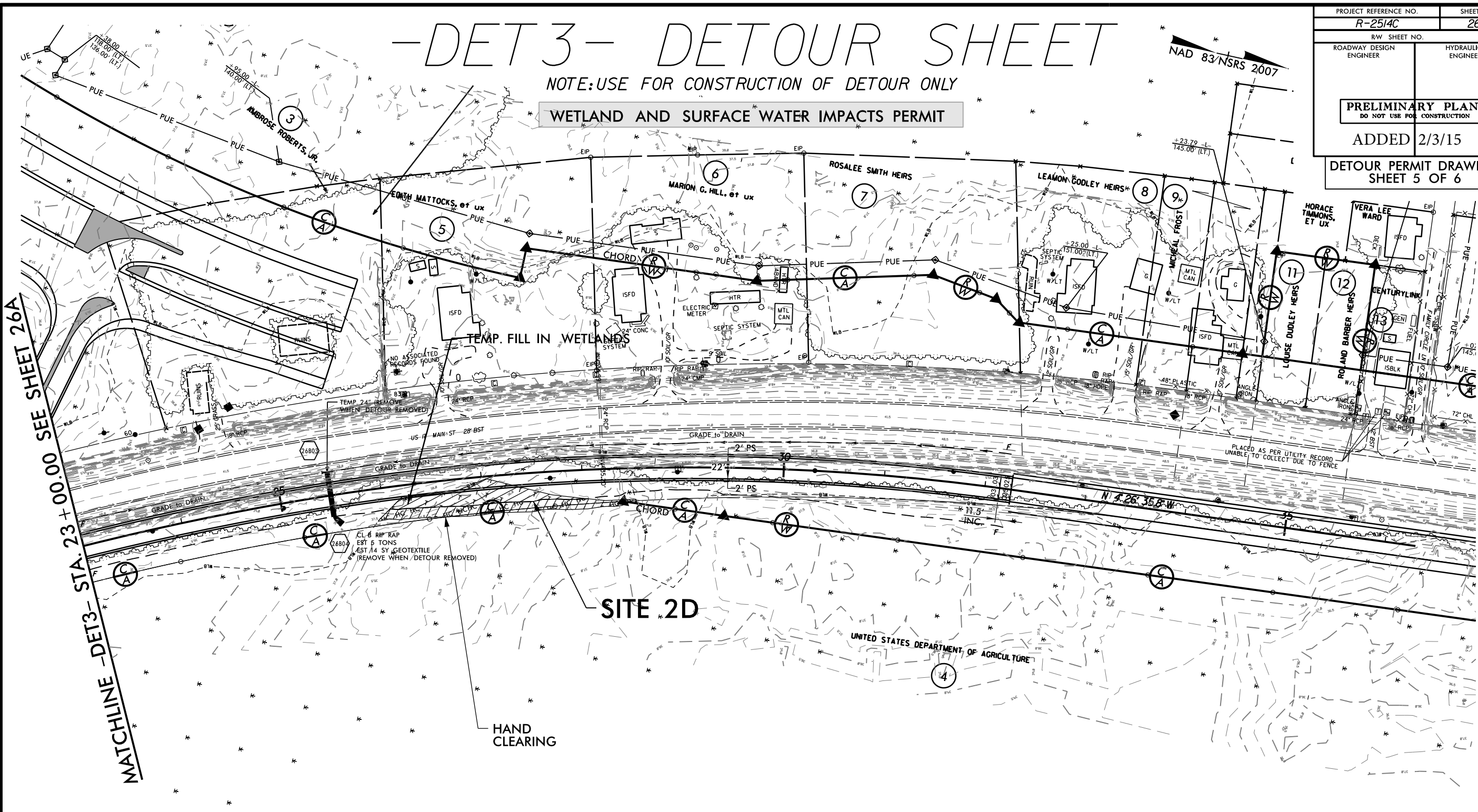


-DET3- DETOUR SHEET

NOTE: USE FOR CONSTRUCTION OF DETOUR ONLY

WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 26B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
ADDED 2/3/15	
DETOUR PERMIT DRAWING SHEET 5 OF 6	



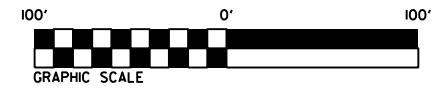
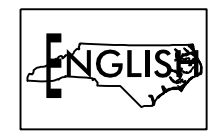
MATCHLINE -DET3- STA. 23+00.00 SEE SHEET 26A

REVISIONS

DENOTES HAND CLEARING

DENOTES TEMPORARY FILL IN WETLAND

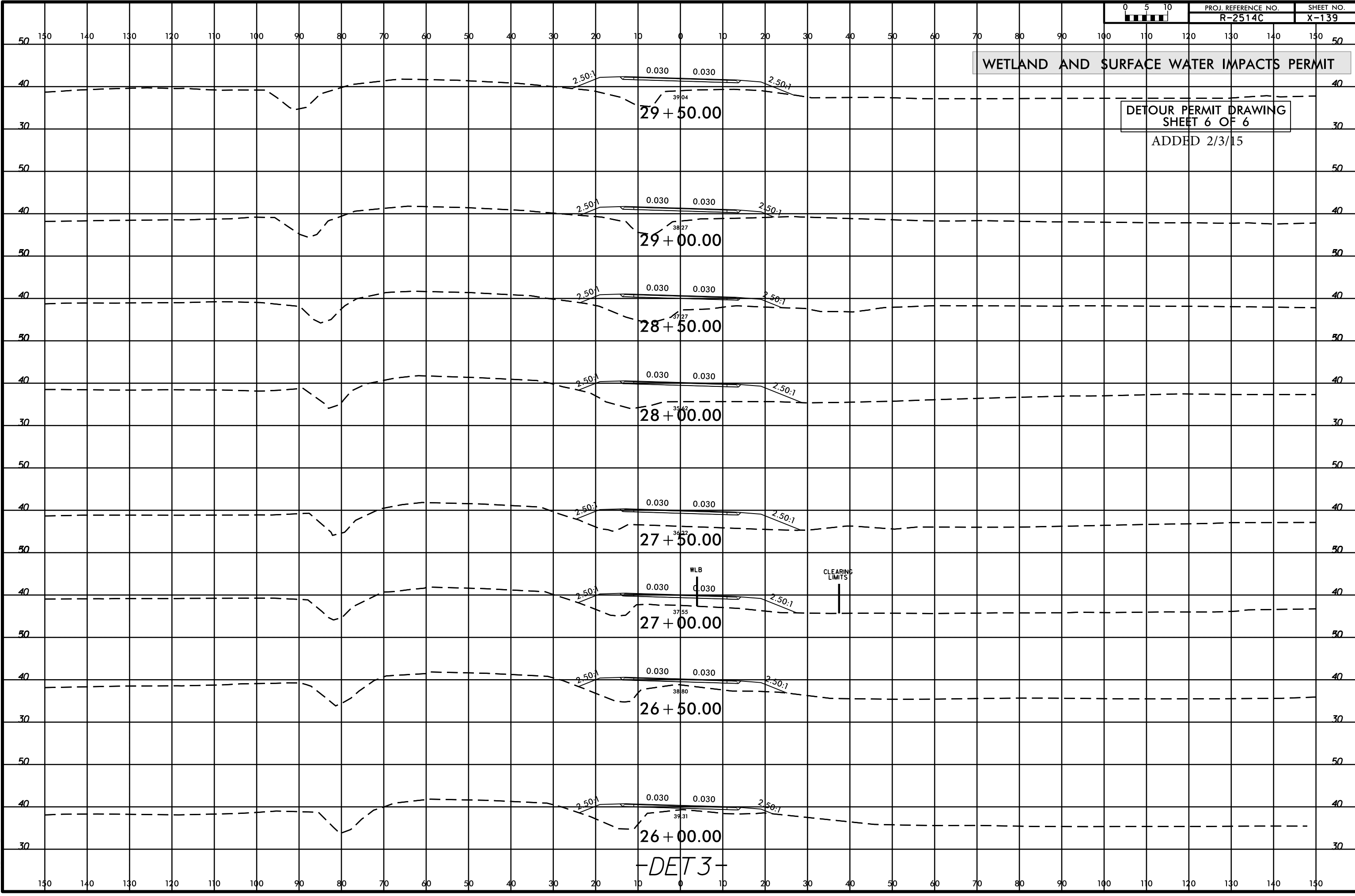
-DET3-	
PI Sta 23+24.44	PI Sta 28+77.74
$\Delta = 8^{\circ}06'00.8" (RT)$	$\Delta = 17^{\circ}29'49.2" (RT)$
$D = 2^{\circ}01'41.4"$	$D = 2^{\circ}29'28.0"$
$L = 399.39'$	$L = 702.37'$
$T = 200.03'$	$T = 353.94'$
$R = 2,825.00'$	$R = 2,300.00'$
$DS = 45 \text{ mph}$	$DS = 45 \text{ mph}$
$e = .03$	$e = .03$
$RO = 69'$	$RO = 69'$



8/23/99

WETLAND AND SURFACE WATER IMPACTS PERMIT

DETOUR PERMIT DRAWING
SHEET 6 OF 6
ADDED 2/3/15

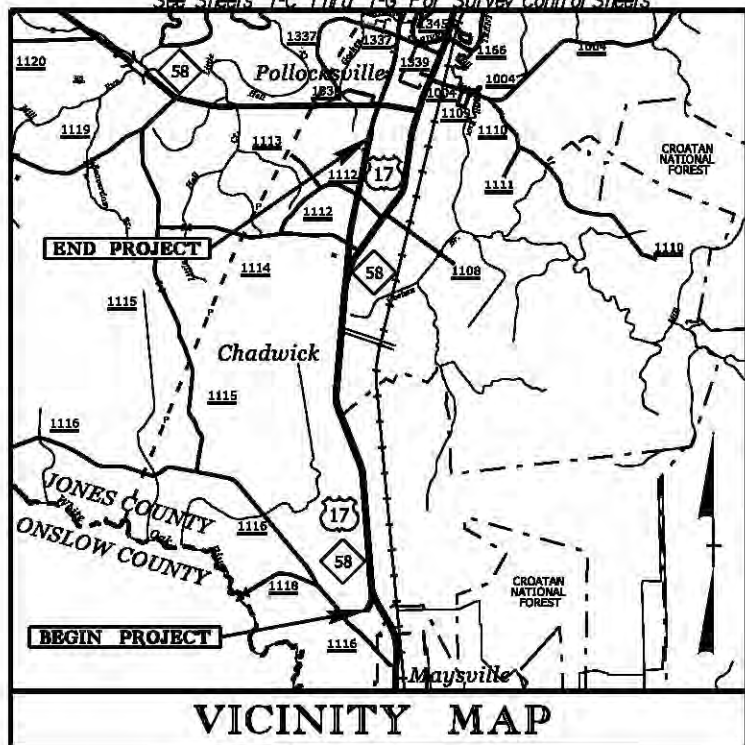


DET 3

SYTIME
BY: [unclear]
CHECKED: [unclear]
DATE: [unclear]

09/06/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols
See Sheets 1-C Thru 1-G For Survey Control Sheets



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JONES COUNTY

LOCATION: US 17 FROM NORTH OF MAYSVILLE TO SOUTH OF NC 58 NEAR POLLOCKSVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES

BUFFER IMPACTS PERMIT

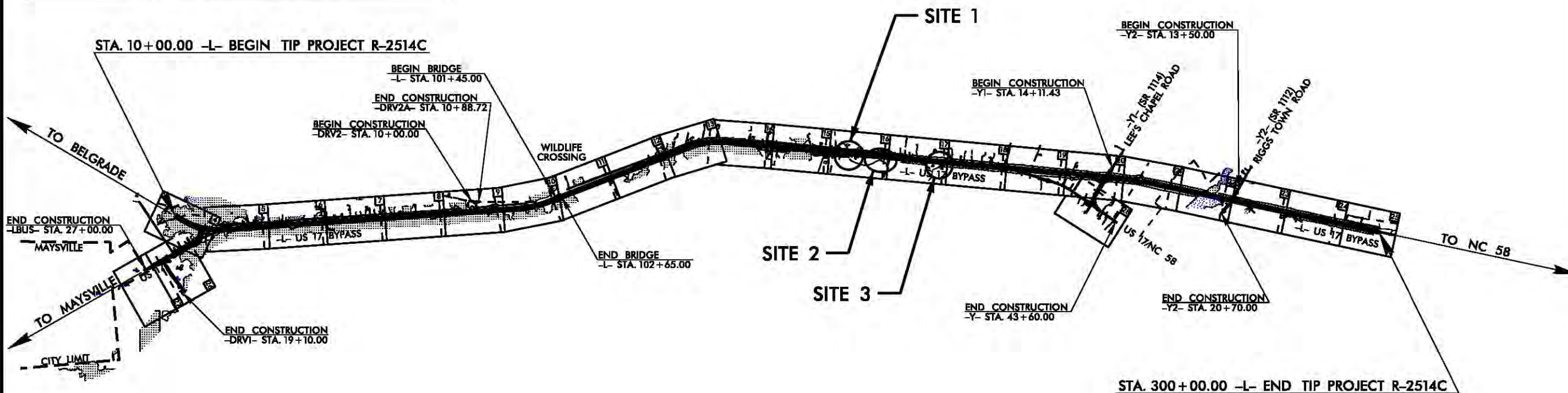


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2514C	1	
STATE FILING	R.A.FILING	DESCRIPTION	
34442.1.4		PE	

**BUFFER DRAWING
SHEET 1 OF 4**



TIP PROJECT: R-2514C

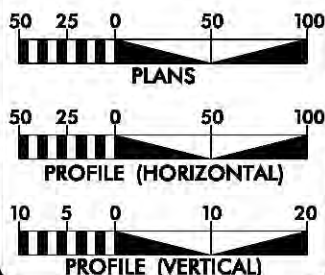


THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING AT DESIGNATED POINTS ONLY.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2015 = 12,000
ADT 2035 = 17,700
DHV = 12 %
D = 60 %
T = 9 % *
V = 60 MPH
* TTST = 5 % DUAL = 4 %
FUNC CLASS = EXPRESSWAY
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2514C = 5.469 MILES
LENGTH STRUCTURE OF TIP PROJECT R-2514C = 0.023 MILES
TOTAL LENGTH OF TIP PROJECT R-2514C = 5.492 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 21, 2013

LETTING DATE:
JUNE 16, 2015

JAMES A. SPEER, PE
PROJECT ENGINEER

DANIEL W. GARDNER, JR., PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



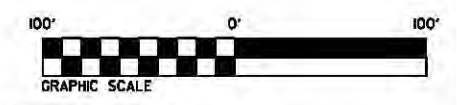
2/6/2014
beanderson
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\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
R-2514C	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
DO NOT USE FOR CONSTRUCTION	

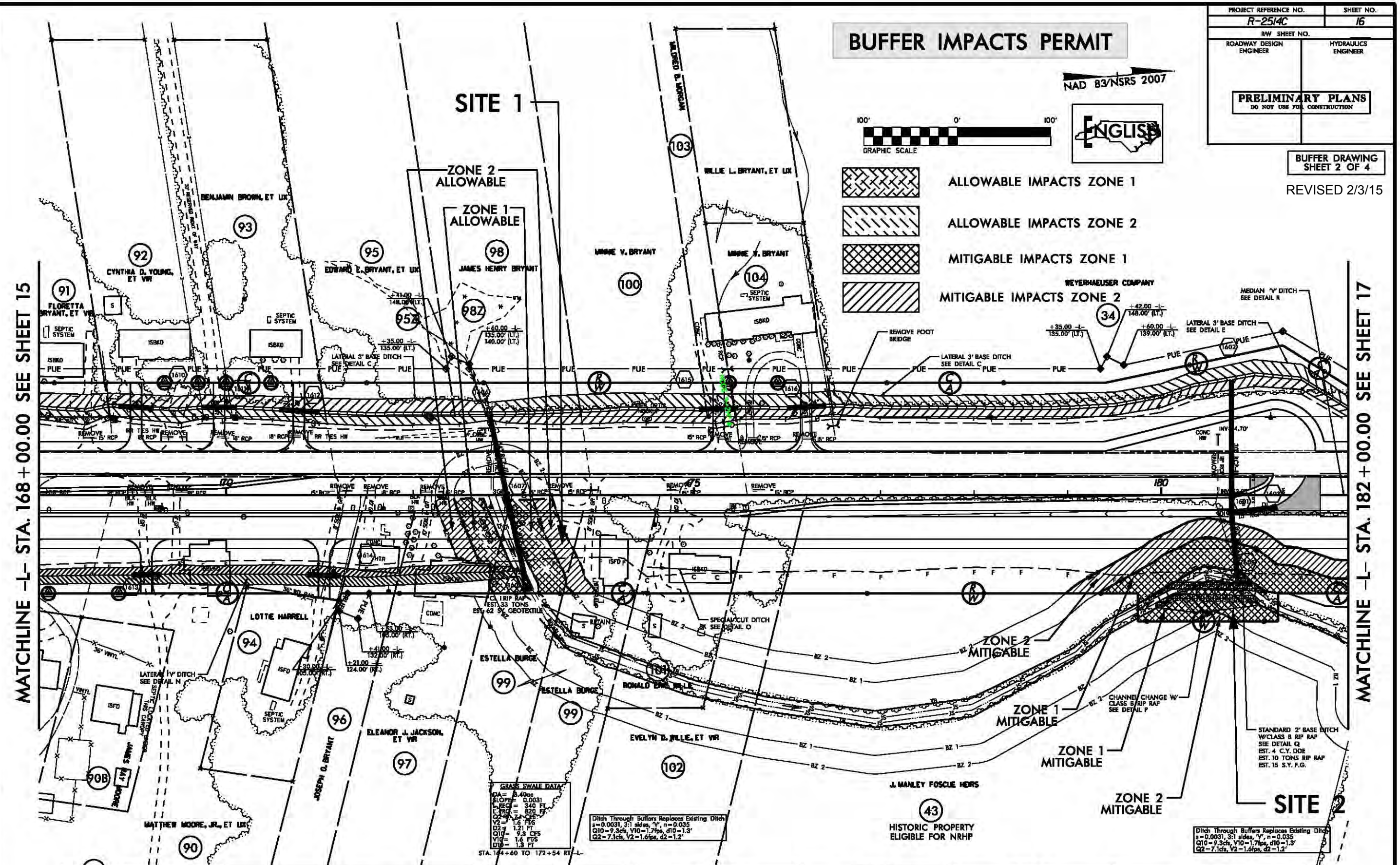
BUFFER IMPACTS PERMIT

NAD 83/NSRS 2007



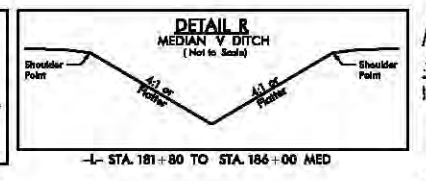
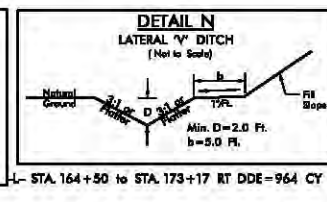
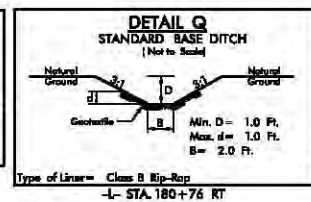
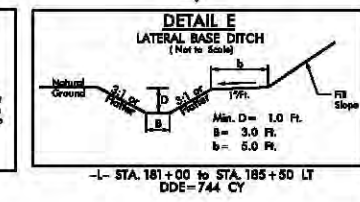
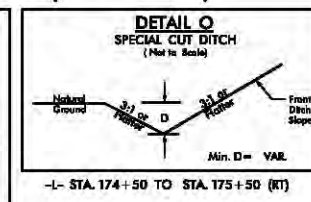
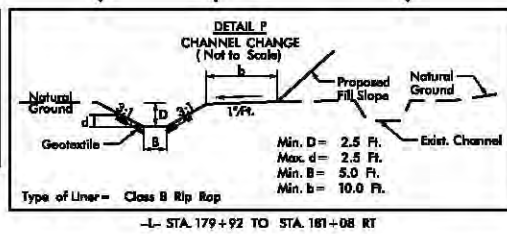
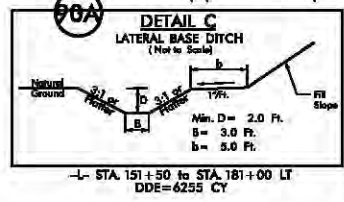
BUFFER DRAWING
SHEET 2 OF 4
REVISED 2/3/15

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2
- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2



MATCHLINE -L- STA. 168 + 00.00 SEE SHEET 15

MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 17



1/9/2015
mpberry
R:\Hydraulics\PERMITS_Environmental\Drawings\buffer\B-2514C_Hyd_prm_buf_psh16.dgn
REVISIONS
RAW REVISION 7-28-14 (DWG) - ADDED A SECOND CLAW OF PUE ON PARCEL 98Z (JAMES HENRY BRYANT)

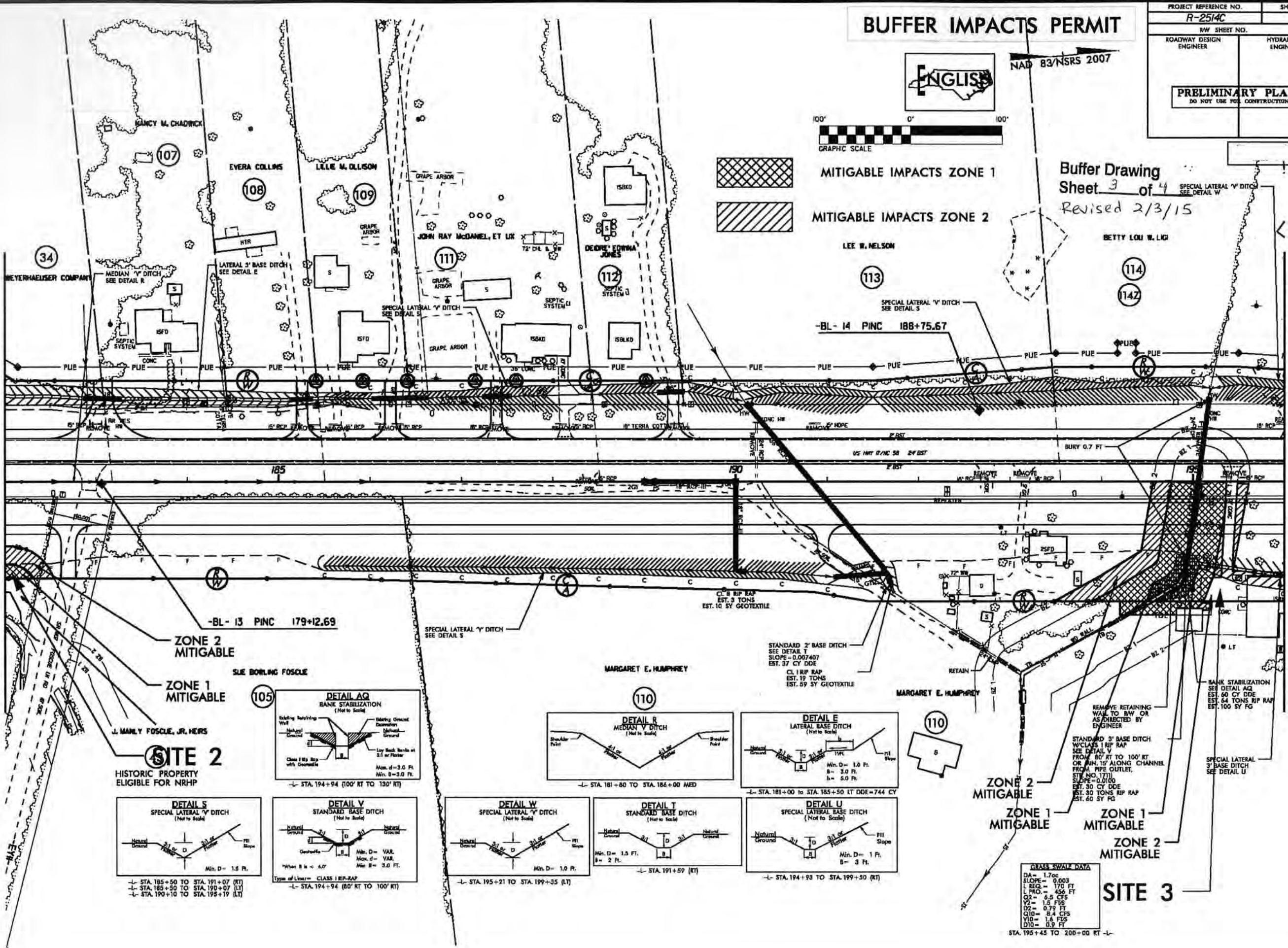
BUFFER IMPACTS PERMIT

PROJECT REFERENCE NO. R-2514C	SHEET NO. 17
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

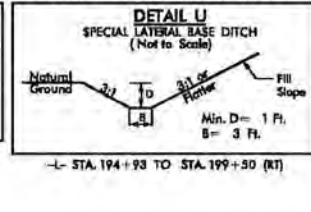
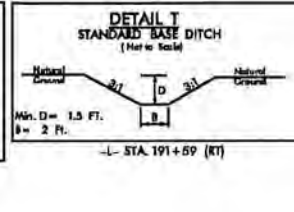
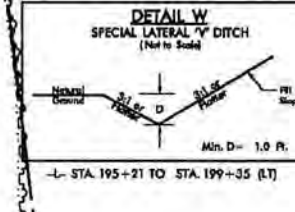
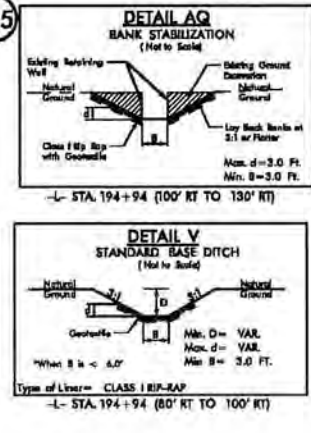


MATCHLINE -L- STA. 182 + 00.00 SEE SHEET 16

MATCHLINE -L- STA. 196 + 00.00 SEE SHEET 18



MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2



GRASS SWALE DATA

DA =	1.7oc
SLOPE =	0.003
L REQ. =	170 FT
L PRO. =	456 FT
Q2 =	6.5 CFS
V2 =	1.5 FTS
D2 =	0.79 FT
Q10 =	8.4 CFS
V10 =	1.6 FTS
D10 =	0.9 FT

-L- STA. 195+45 TO 200+00 RT -L-

2/2/2015 beamidatorn R:\Hydraulics\PERMITS_Environmental\Drawings\buffer\R-2514C_Hyd_perm_buf_path17.dgn

REVISIONS

*****SYTIME*****
*****DATE*****
*****DRAWN*****

BUFFER IMPACTS SUMMARY

			IMPACT									BUFFER REPLACEMENT	
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	TYPE			ALLOWABLE			MITIGABLE			ZONE 1 (ft ²)	ZONE 2 (ft ²)
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft ²)		
1	ROAD	-L- STA. 172+19 TO -L- STA. 173+49	X			6426	3705	10131					
2	ROAD	-L- STA. 178+97 TO -L- STA. 182+54			X				11389	7568	18957		
3	ROAD	-L- STA. 193+44 TO -L- STA. 195+62	X						9916	4613	14529		
TOTAL:						6426	3705	10131	21305	12181	33486		

NOTE: THERE ARE NO BUFFER IMPACTS IN WETLANDS.

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 JONES COUNTY
 PROJECT: 34442.1.4 (R-2514C)
 US 17 FROM NORTH OF MAYSVILLE TO
 SOUTH OF NC 58 NEAR POLLOCKSVILLE
 SHEET 4 OF 4 04/23/14

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY PERMIT PLANS
JONES COUNTY**

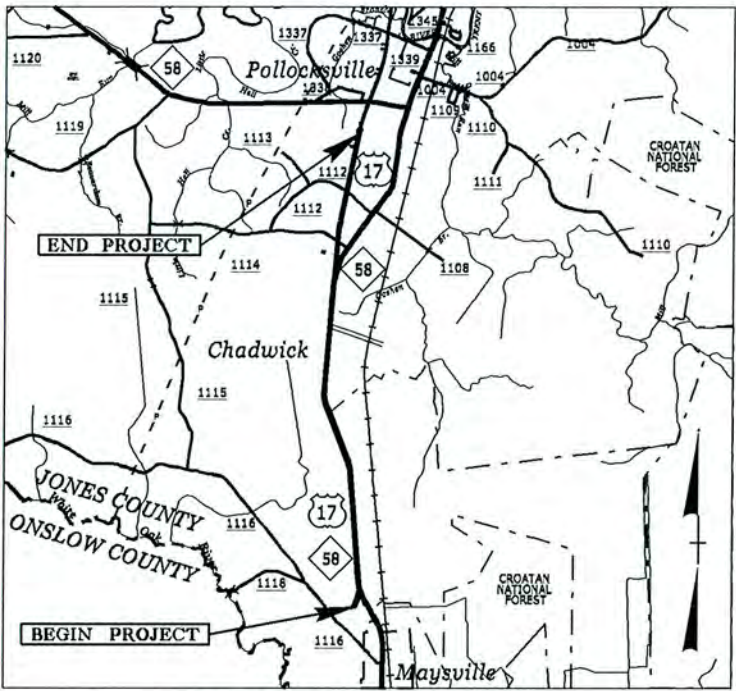
Utility Permit Drawing
Sheet 1 of 20
Revised 1/30/15

**LOCATION: US 17 FROM NORTH OF MAYSVILLE
TO SOUTH OF NC 58 NEAR POLLOCKSVILLE**

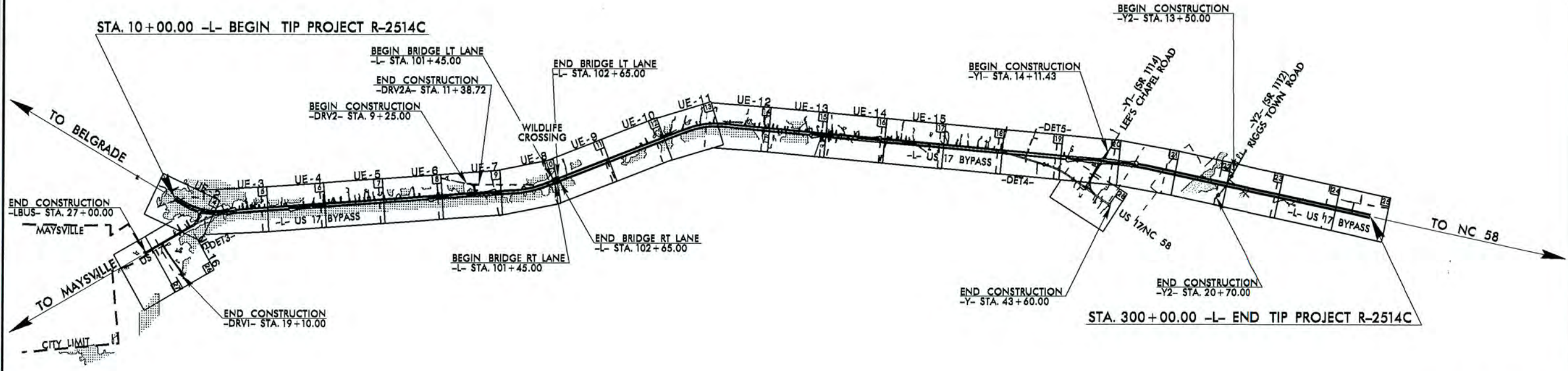
**TYPE OF WORK: RELOCATION OF WATER,
TELEPHONE AND POWER**



TIP PROJECT:



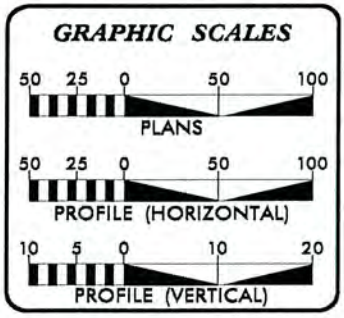
VICINITY MAP



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING AT DESIGNATED POINTS ONLY.

SEE SHEET 18-A FOR -DET4- PLAN
SEE SHEET 18-B FOR -DET5- PLAN
SEE SHEETS 26-A & 26-B FOR -DET3- PLAN

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UE-1	TITLE SHEET
UE-2 THRU UE-16	UTILITY ENGINEERING SHEETS

WATER AND SEWER OWNERS ON PROJECT

- (1) WATER - JONES COUNTY
- (2) FIBER OPTIC - CENTURYLINK
- (3) POWER - DUKE ENERGY PROGRESS

SEAL

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING**

1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
FAX (919) 230-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Mariko Hafeez UTILITIES PROJECT DESIGNER

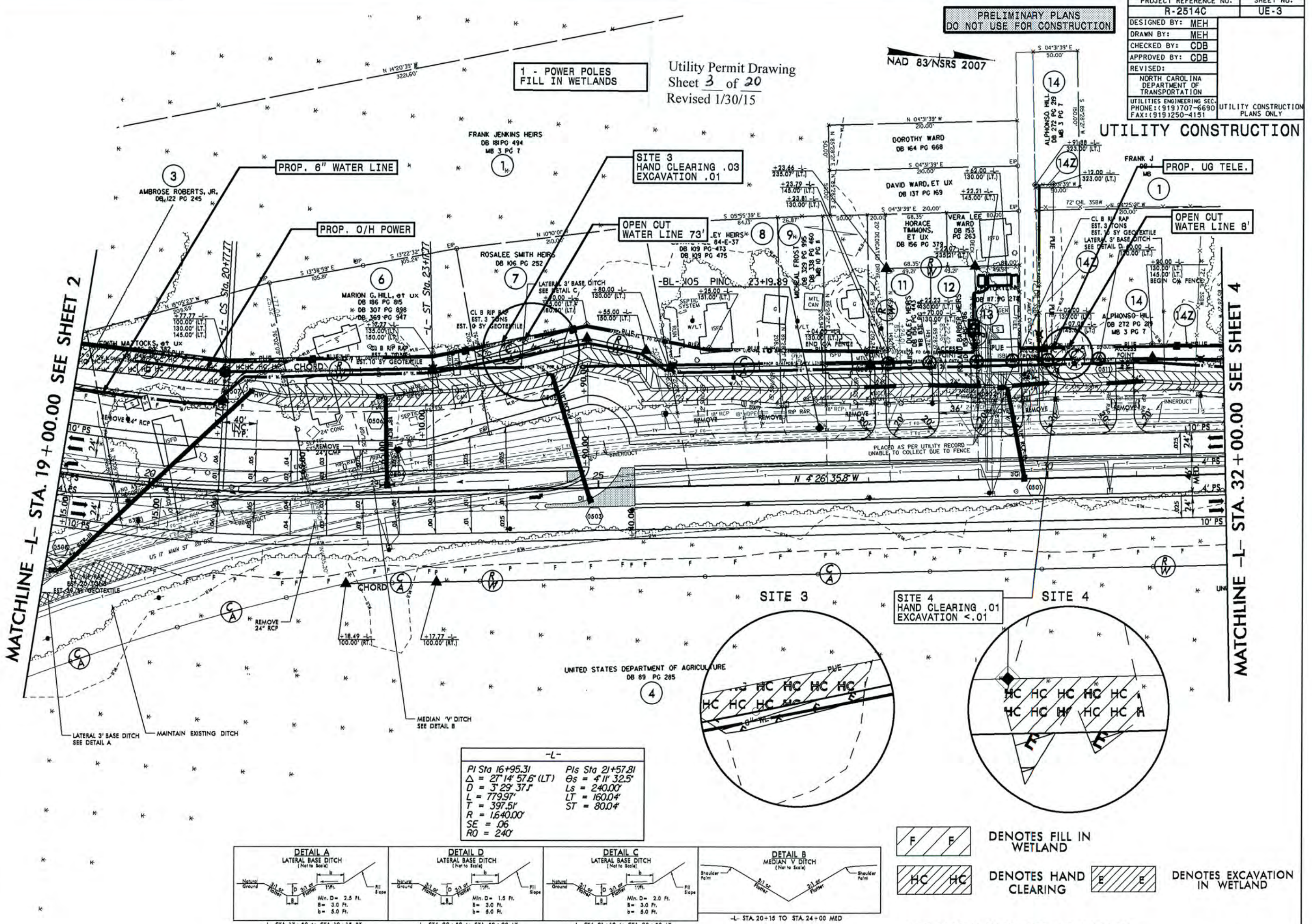
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\$\$\$\$\$USERNAME\$\$\$\$\$

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-3
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SECTION		PHONE: (919) 707-6690	
FAX: (919) 250-4151			

Utility Permit Drawing
Sheet 3 of 20
Revised 1/30/15

1 - POWER POLES
FILL IN WETLANDS

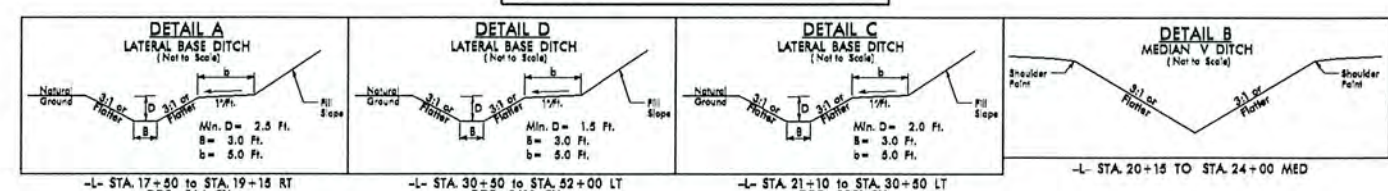


MATCHLINE -L- STA. 19+00.00 SEE SHEET 2

MATCHLINE -L- STA. 32+00.00 SEE SHEET 4

-L-

PI Sta 16+95.31	PIs Sta 21+57.81
$\Delta = 27' 14'' 57.6''$ (LT)	$\Theta_s = 4' 11'' 32.5''$
$D = 3' 29' 37.1''$	$L_s = 240.00'$
$L = 779.97'$	$LT = 160.04'$
$T = 397.51'$	$ST = 80.04'$
$R = 1,640.00'$	
$SE = .06$	
$RO = 240'$	



	DENOTES FILL IN WETLAND		DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING		

NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

REVISIONS

30-MAN-2015 1610
C:\NCE\Permit Plans and Narratives\R-2514C_Ut_dwg5_Ue3_psh.dgn

PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-4
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

4 - POWER POLES
FILL IN WETLANDS

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

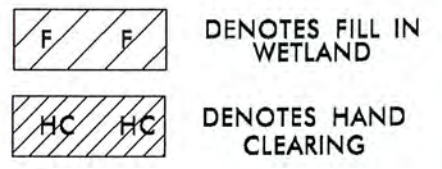
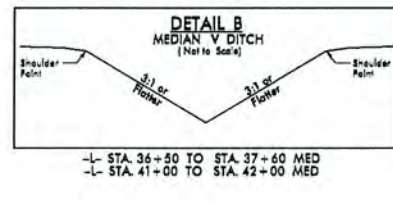
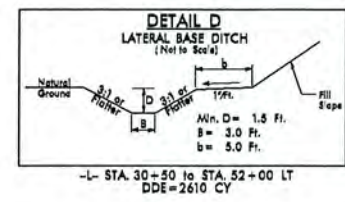
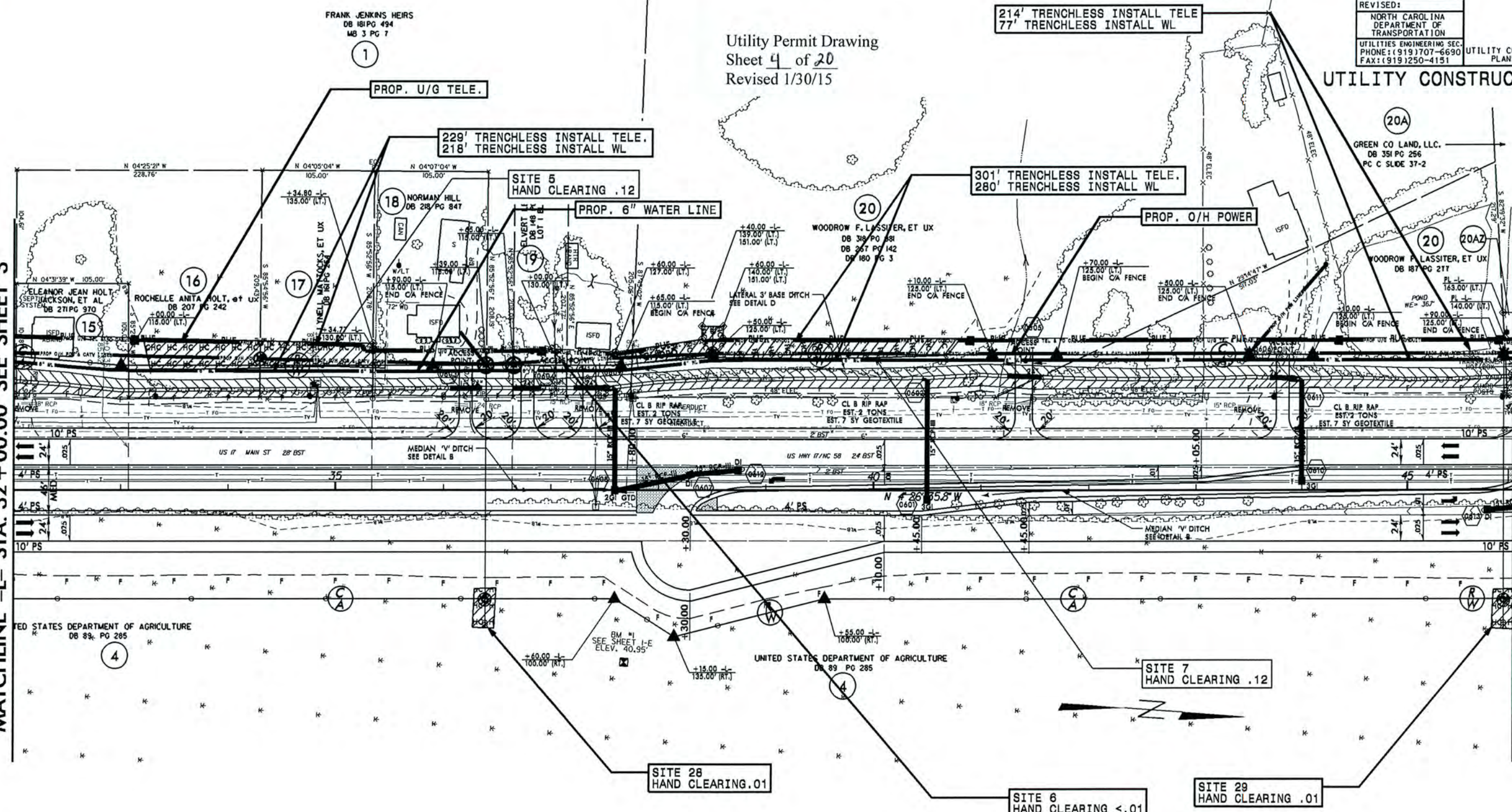
NAD 83/NSRS 2007

Utility Permit Drawing
Sheet 4 of 20
Revised 1/30/15

UTILITY CONSTRUCTION

MATCHLINE -L- STA. 32 + 00.00 SEE SHEET 3

MATCHLINE -L- STA. 46 + 00.00 SEE SHEET 5



NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

REVISIONS

30-MAY-2015 11:22
and Narrative\R-2514C-UE-4_psh.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

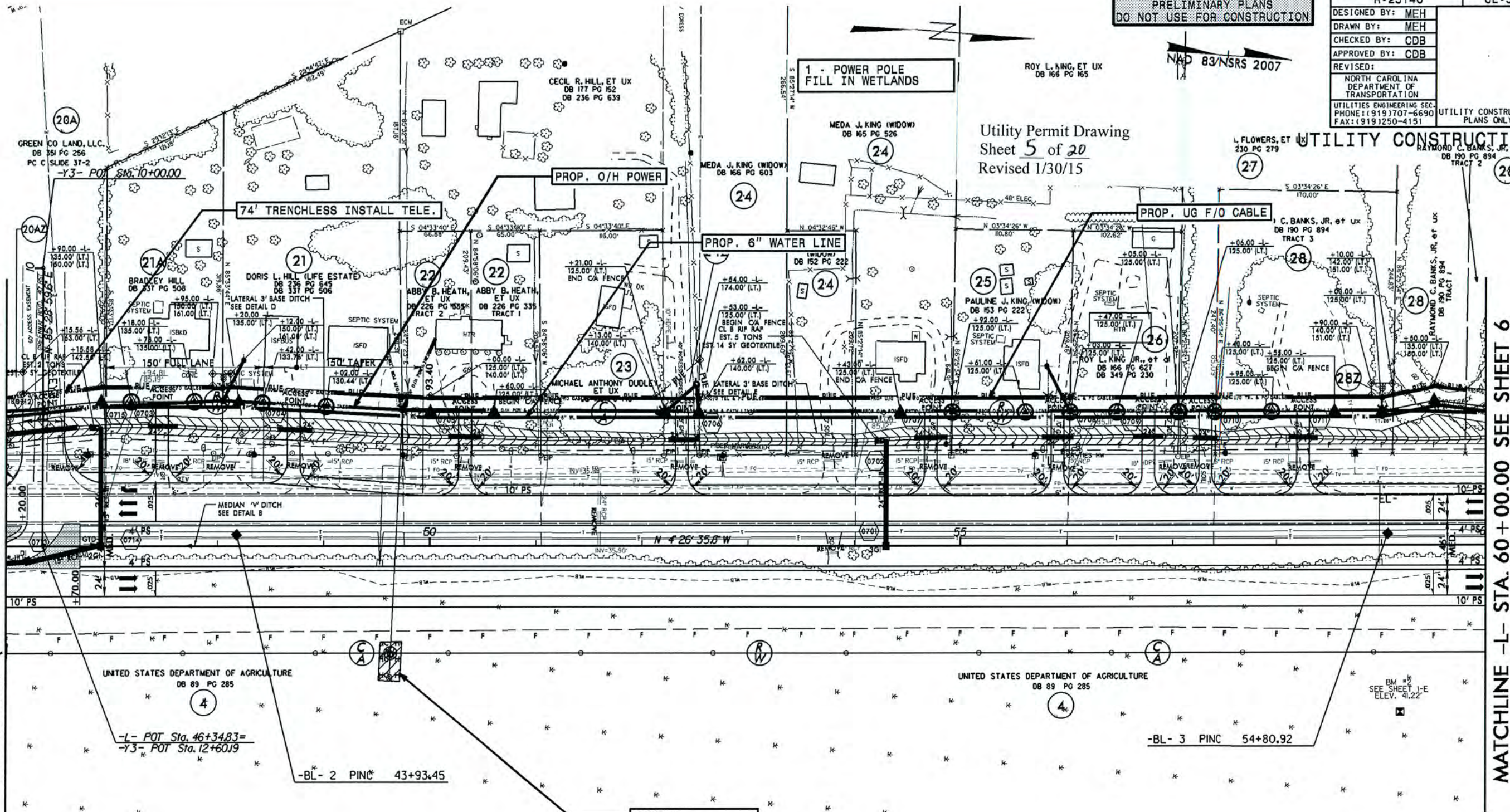
PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-5
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		RAYMOND C. BANKS, JR., ET UX DB 190 PG 894 TRACT 2	

Utility Permit Drawing
Sheet 5 of 20
Revised 1/30/15



MATCHLINE -L- STA. 46+00.00 SEE SHEET 4

MATCHLINE -L- STA. 60+00.00 SEE SHEET 6

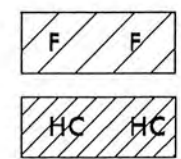
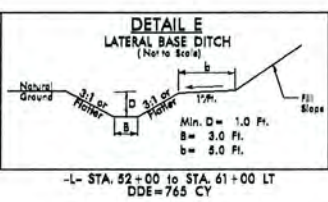
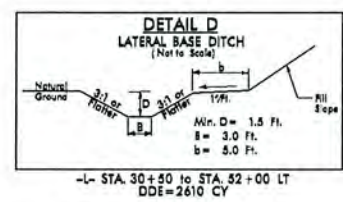
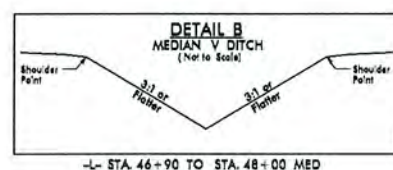


REVISIONS

UNITED STATES DEPARTMENT OF AGRICULTURE
DB 89 PG 285

UNITED STATES DEPARTMENT OF AGRICULTURE
DB 89 PG 285

SITE 8
HAND CLEARING .01



NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.
SEE SHEET 30 FOR -L- PROFILE

5/14/99
30 JAN-2015 11:24
and Narrative NR-2514C.Ut...By: JUE5.psh.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-6
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	ODD		
APPROVED BY:	ODD		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC.		UTILITY CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690			
FAX: (919) 250-4151			

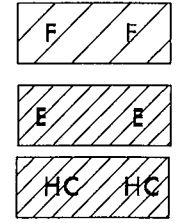
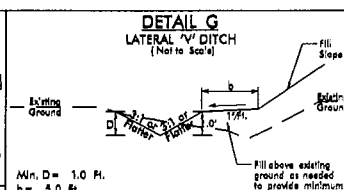
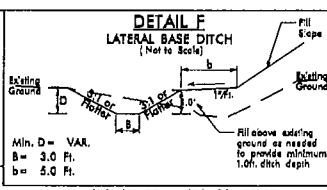
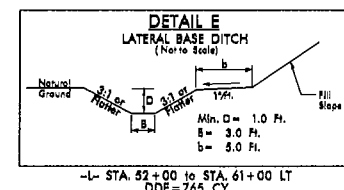
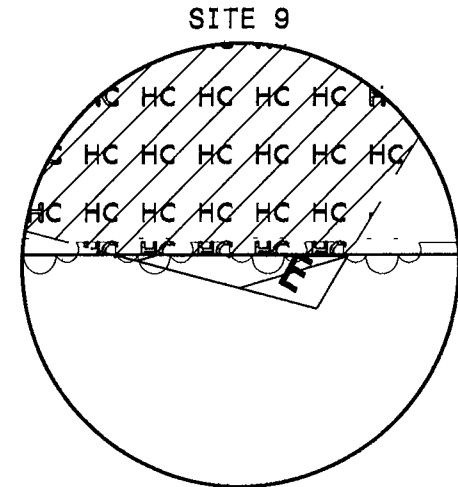
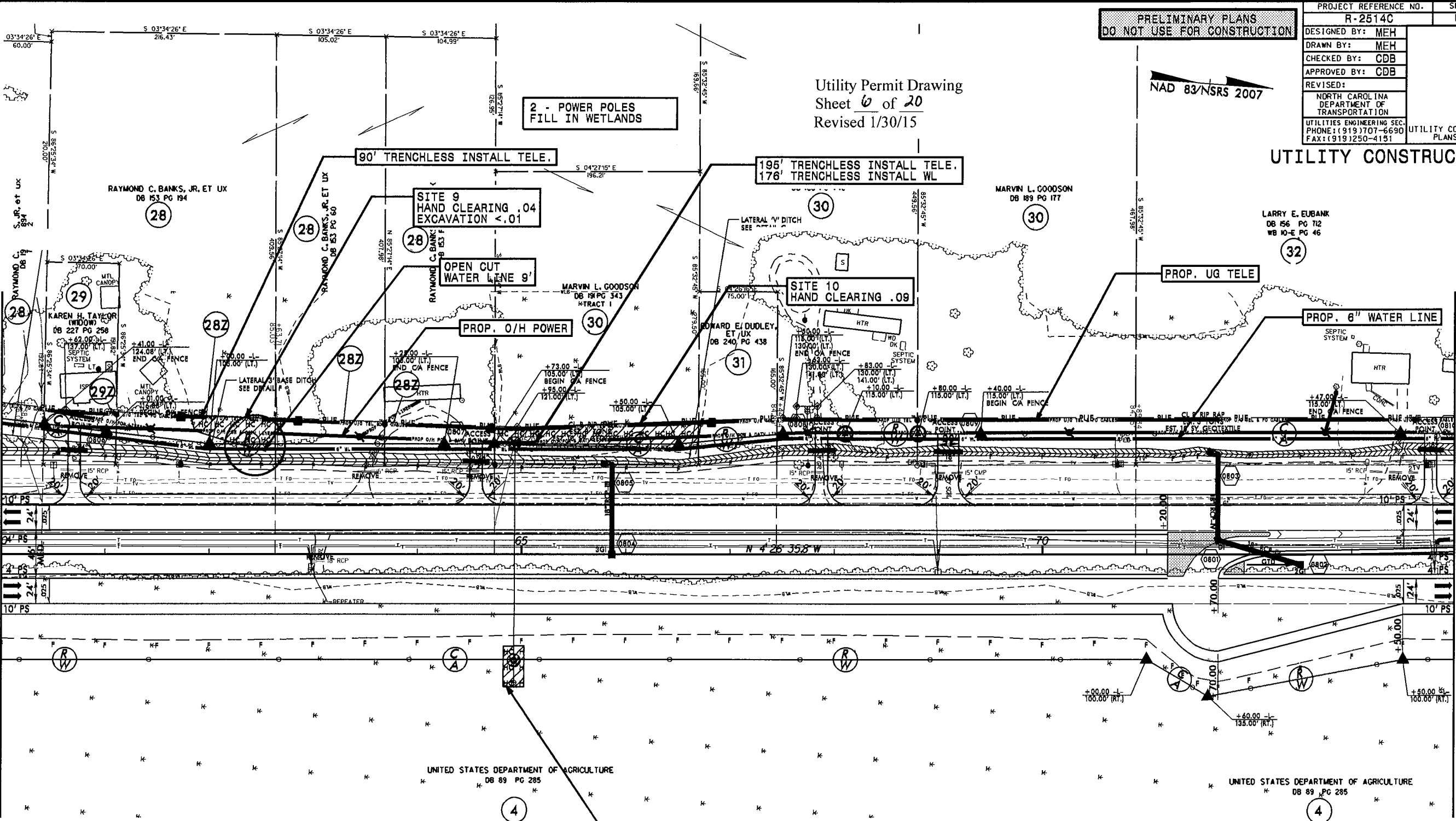
Utility Permit Drawing
Sheet 6 of 20
Revised 1/30/15

NAD 83/NSRS 2007

UTILITY CONSTRUCTION

MATCHLINE -L- STA. 60 + 00.00 SEE SHEET 5

MATCHLINE -L- STA. 74 + 00.00 SEE SHEET 7



NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

SEE SHEET 31 FOR -L- PROFILE

REVISIONS

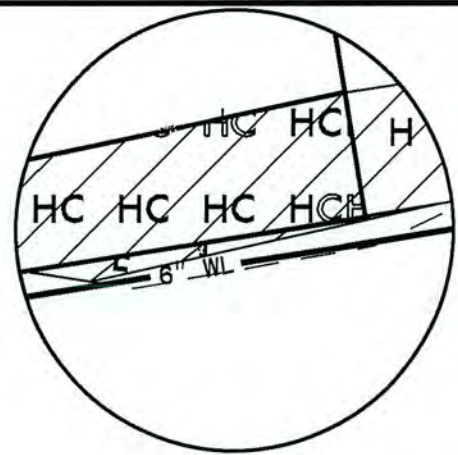
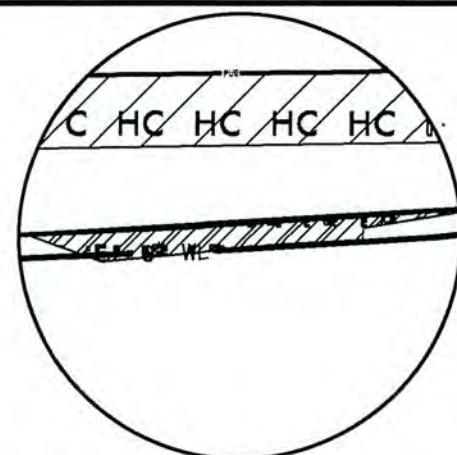
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

UTILITY CONSTRUCTION

Utility Permit Drawing
Sheet 8 of 20
Revised 1/30/15

2- POWER POLE
FILL IN WETLAND



-L-		
Pls Sta 92+25.52	Pls Sta 95+60.26	Pls Sta 98+92.91
$\theta_s = 2'19''44.7''$	$\Delta = 12'26''19.1''$ (LT)	$\theta_s = 2'19''44.7''$
$L_s = 200.00'$	$D = 2'19''44.7''$	$L_s = 200.00'$
$LT = 133.34'$	$L = 534.05'$	$LT = 133.34'$
$ST = 66.68'$	$T = 268.08'$	$ST = 66.68'$
	$R = 2,460.00'$	
	$SE = .05$	
	$RO = 200'$	

SITE 15-1

SITE 15-2

NAD 83/NSRS 2007

PROP. 6" WATER LINE

OPEN CUT
WATER LINE 350'

WEYERHAEUSER COMPANY
PC "B" SLIDE 33

34

WEYERHAEUSER COMPANY
PC "B" SLIDE 33

34

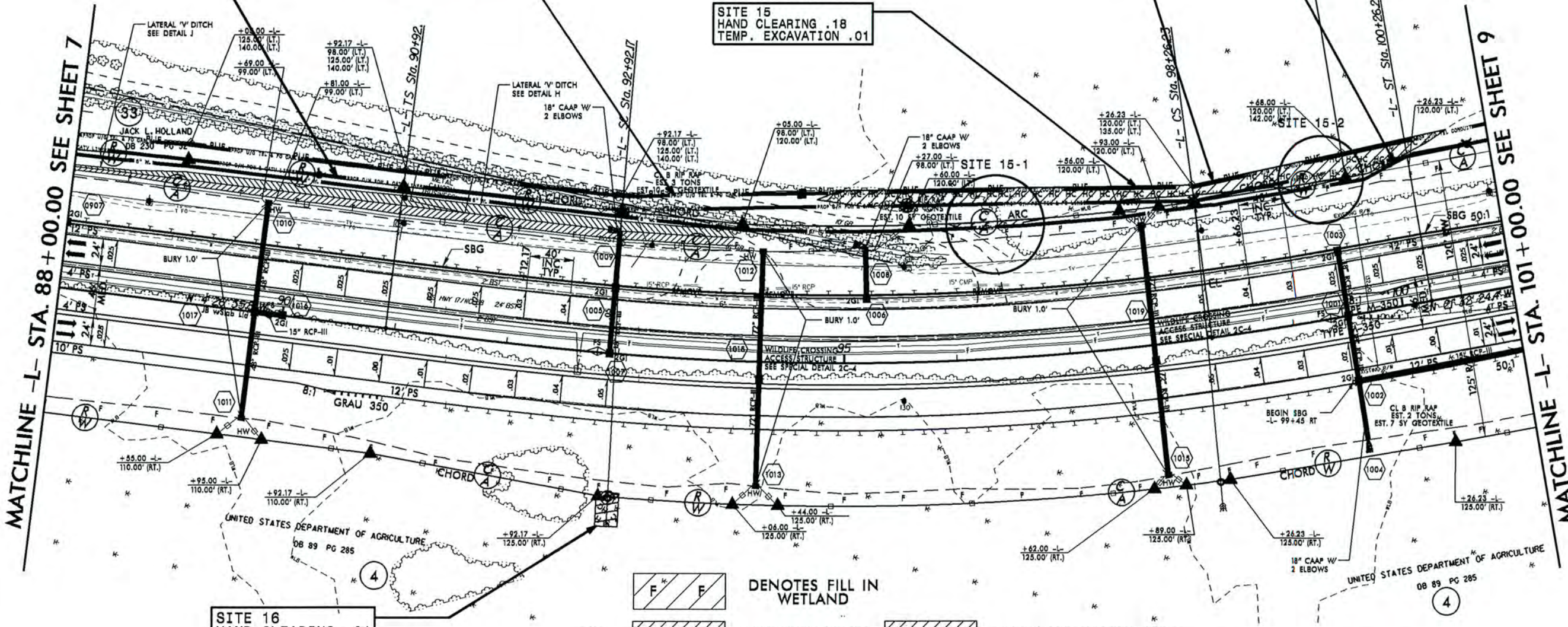
SITE 15
HAND CLEARING .18
TEMP. EXCAVATION .01

PROP. O/H POWER

PROP. U/G TELE.

MATCHLINE -L- STA. 88+00.00 SEE SHEET 7

MATCHLINE -L- STA. 101+00.00 SEE SHEET 9



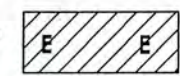
SITE 16
HAND CLEARING .01



DENOTES FILL IN
WETLAND



DENOTES HAND
CLEARING



DENOTES EXCAVATION
IN WETLAND

NOTE: SBG - "SHOULDER BERM, GUTTER"
SEE SHEET 2C-1 FOR WILDLIFE FENCE DETAIL.
SEE SHEET 32 FOR -L- PROFILE

REVISIONS

5/14/99

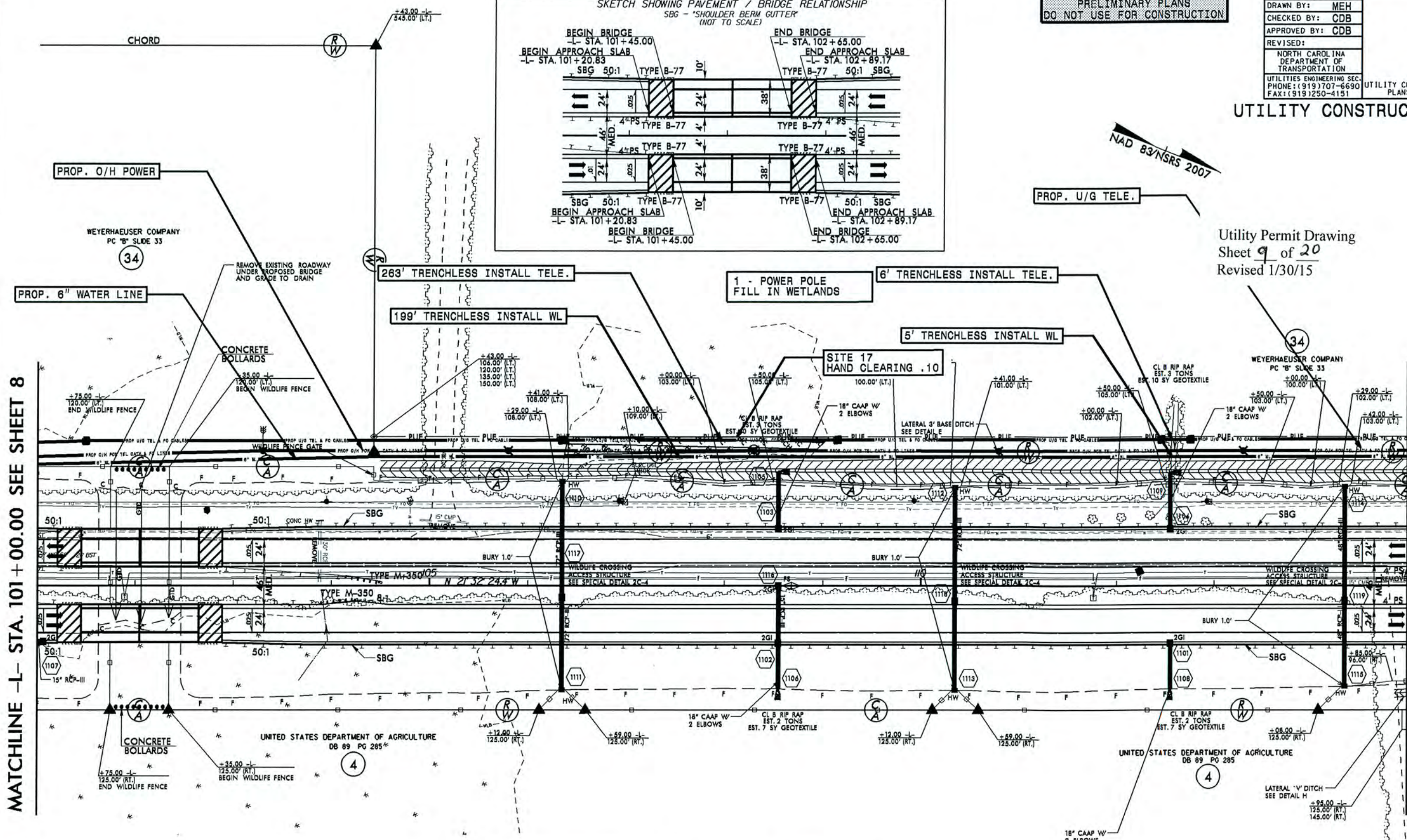
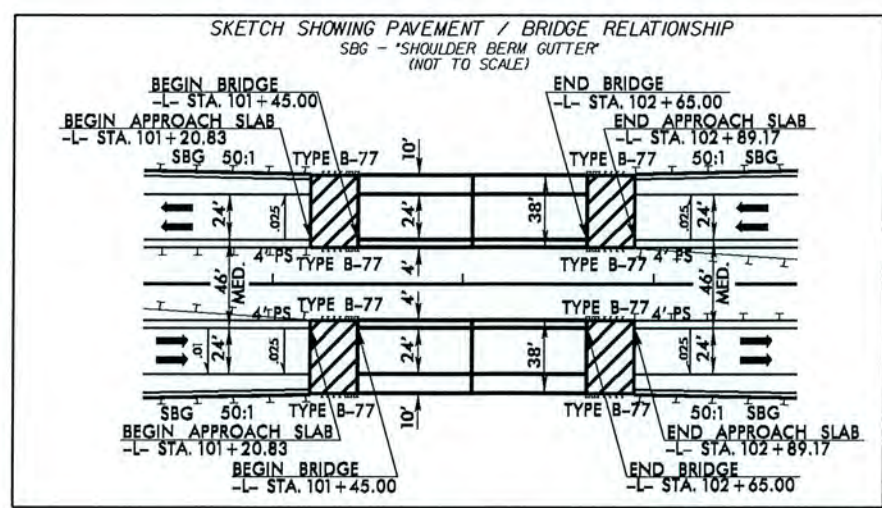
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PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-9
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

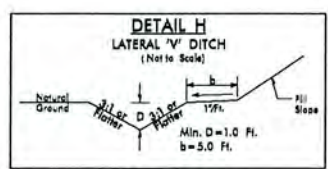
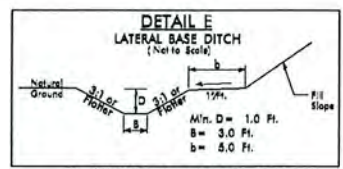
UTILITY CONSTRUCTION

Utility Permit Drawing
Sheet 9 of 20
Revised 1/30/15



MATCHLINE -L- STA. 101 + 00.00 SEE SHEET 8

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 10



DENOTES FILL IN WETLAND

DENOTES HAND CLEARING

NOTE: SBG - "SHOULDER BERM GUTTER"
SEE SHEET 2C-1 FOR WILDLIFE FENCE DETAIL.
SEE SHEET 32 FOR -L- PROFILE
SEE SHEET 44 FOR -DRV3- PROFILE
SEE SHEETS S-1 THRU S-3 FOR STRUCTURE PLANS

REVISIONS

30-MAY-2015 14:47
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PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-10
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SECTION		PHONE: (919) 707-6690	
		FAX: (919) 250-4151	

2- POWER POLES
FILL IN WETLANDS

Utility Permit Drawing
Sheet 10 of 20
Revised 1/30/15

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

SITE 20
HAND CLEARING .02
EXCAVATION <.01

OPEN CUT
WATER LINE 66'

OPEN CUT
WATER LINE 43'

SITE 19
HAND CLEARING .02
EXCAVATION <.01

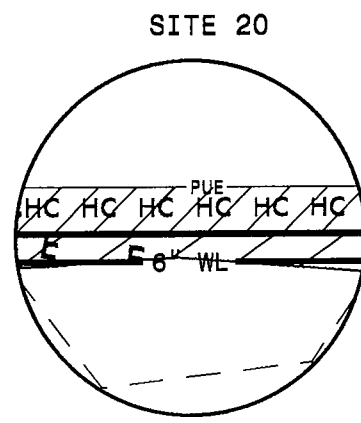
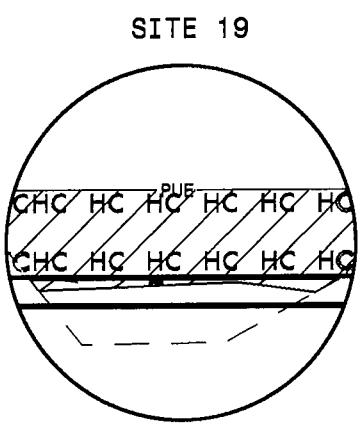
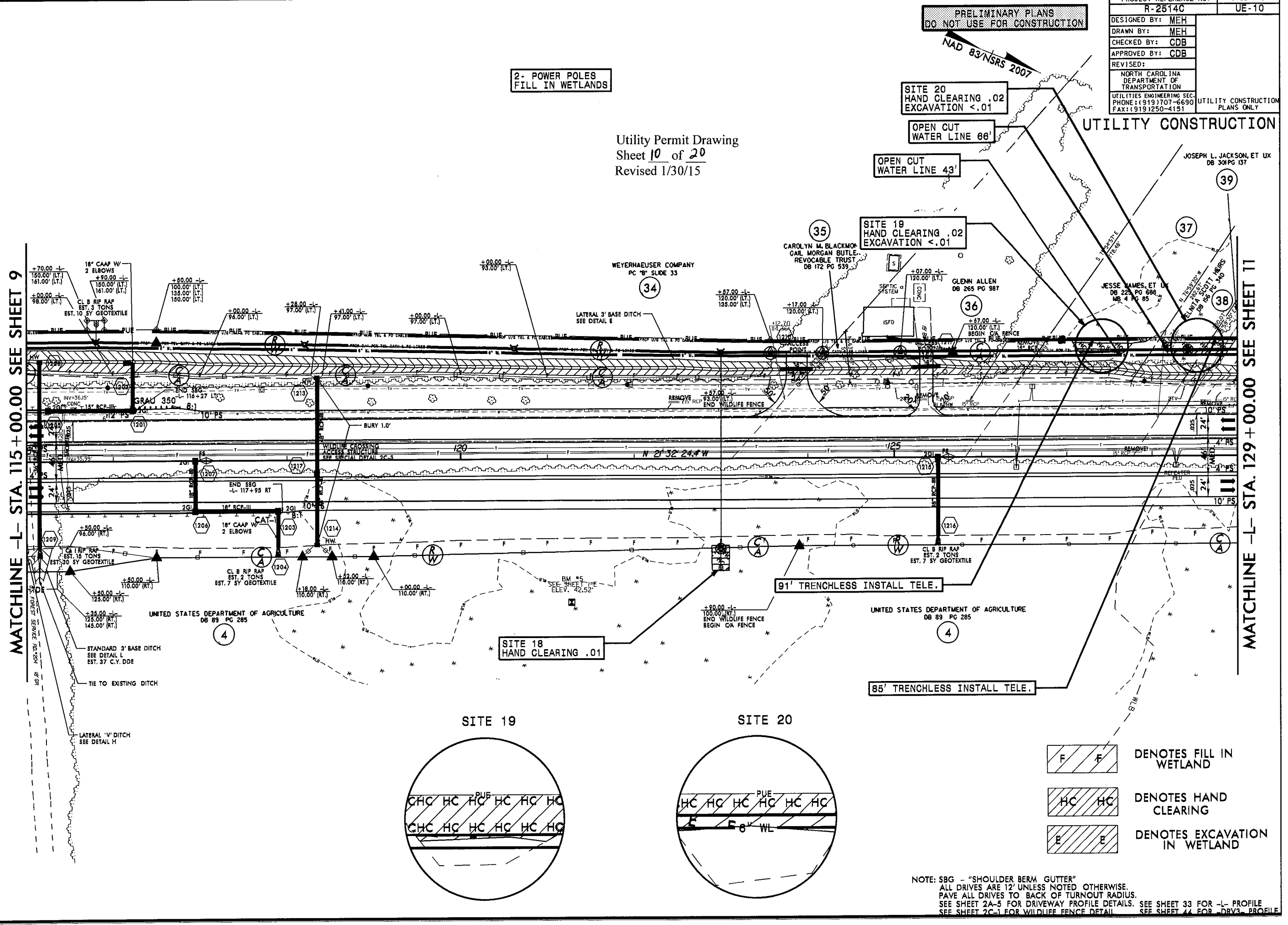
UTILITY CONSTRUCTION

JOSEPH L. JACKSON, ET UX
DB 301 PG 137

MATCHLINE -L- STA. 129 + 00.00 SEE SHEET 11

MATCHLINE -L- STA. 115 + 00.00 SEE SHEET 9

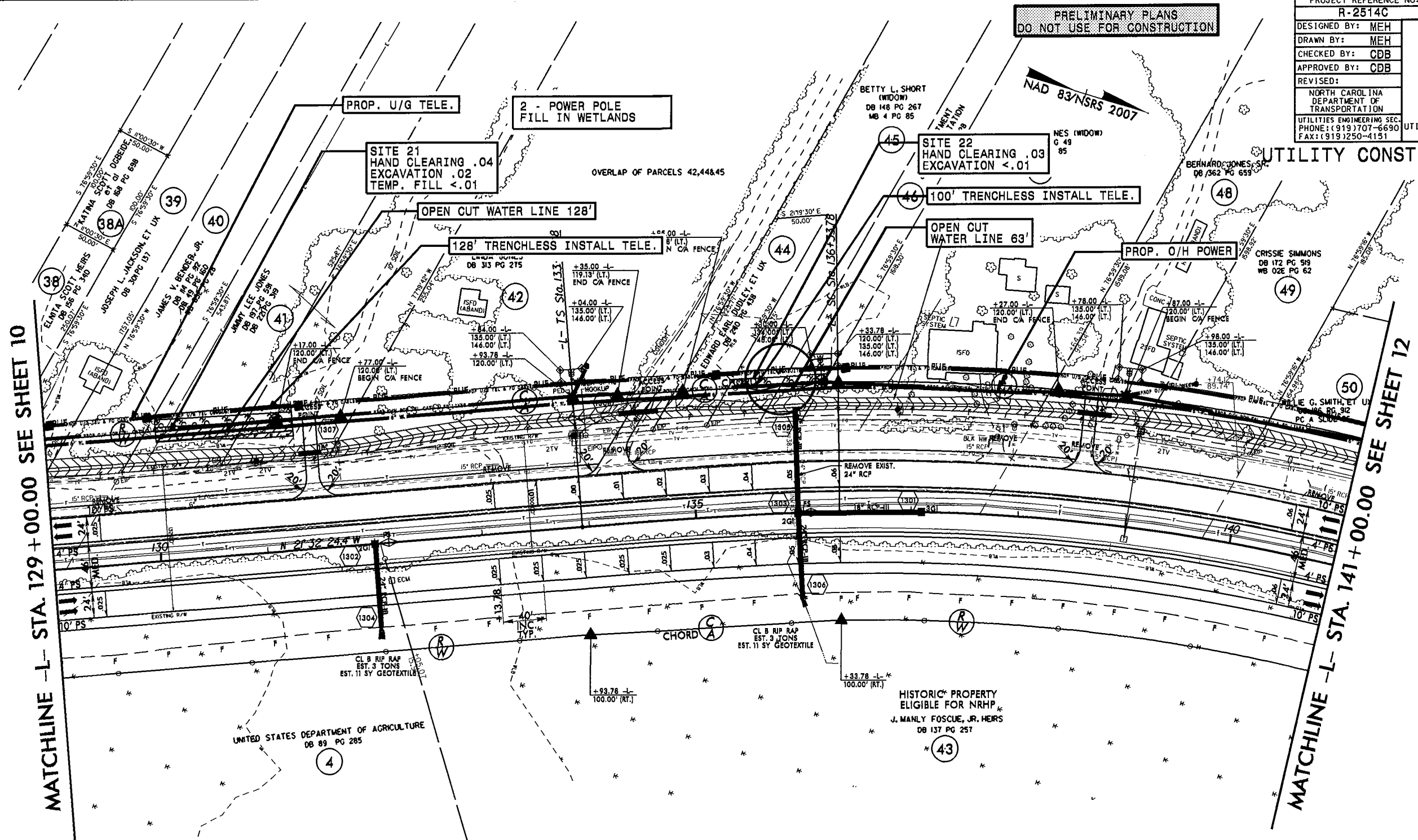
5/14/99
 REVISIONS
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 12-UE10-GENERAL-LE-9903



- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES EXCAVATION IN WETLAND

NOTE: SBG - "SHOULDER BERM GUTTER"
ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS. SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 2C-1 FOR WILDLIFE FENCE DETAIL. SEE SHEET 44 FOR -DRV3- PROFILE

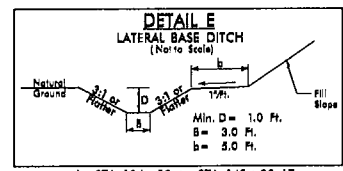
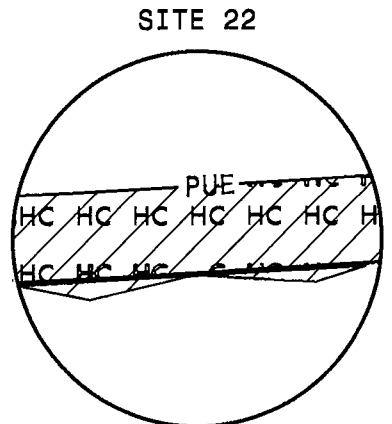
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



MATCHLINE -L- STA. 129+00.00 SEE SHEET 10

MATCHLINE -L- STA. 141+00.00 SEE SHEET 12

REVISIONS



Utility Permit Drawing
Sheet 11 of 20
Revised 1/30/15

-L-	
Pis Sta 135+53.82	Pi Sta 139+50.54
$\Theta_s = 3^\circ 38' 50.3''$	$\Delta = 19^\circ 04' 40.6''$ (RT)
$L_s = 240.00'$	$D = 3^\circ 02' 22.4''$
$LT = 160.03'$	$L = 627.65'$
$ST = 80.03'$	$T = 316.76'$
	$R = 1885.00'$
	$SE = .06$
	$RO = 240'$

- DENOTES FILL IN WETLAND
- DENOTES EXCAVATION IN WETLAND
- DENOTES HAND CLEARING

NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADII.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

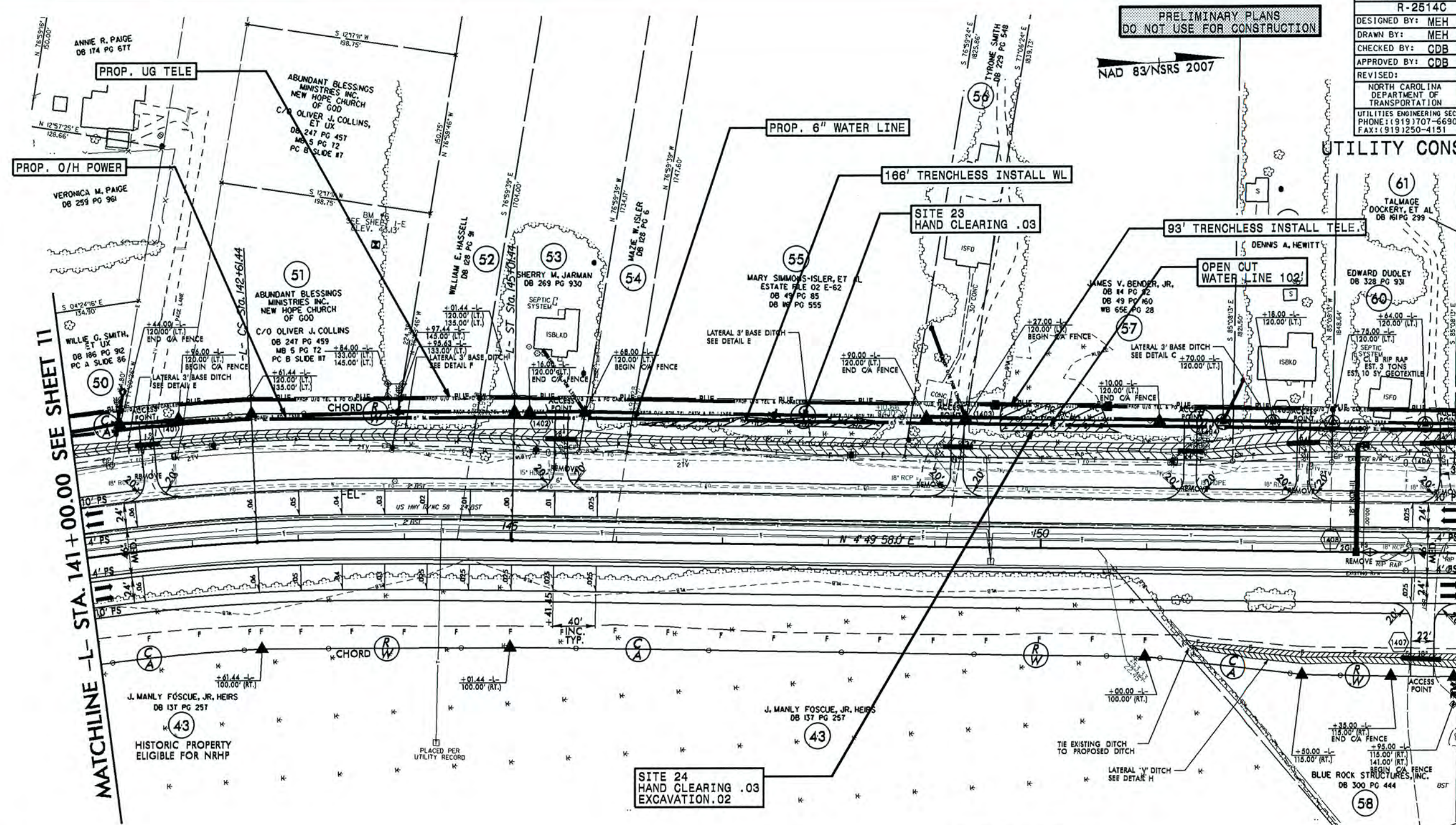
SEE SHEET 33 FOR -L- PROFILE

30-JAN-2015 14:58 P:\NC\Projects\2514C_Ut-F\113-UE11.psh.dgn

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

NAD 83/NSRS 2007

UTILITY CONSTRUCTION



MATCHLINE -L- STA. 141+00.00 SEE SHEET 11

MATCHLINE -L- STA. 154+00.00 SEE SHEET 13

Utility Permit Drawing
 Sheet 12 of 20
 Revised 1/30/15

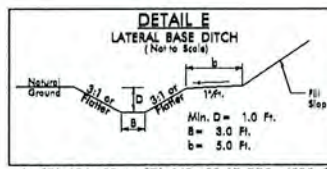
-L-	
PI Sta 139+50.54	PIs Sta 143+41.47
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$D = 3^{\circ}02'22.4"$	$Ls = 240.00'$
$L = 627.65'$	$LT = 160.03'$
$T = 316.76'$	$ST = 80.03'$
$R = 1885.00'$	
$SE = .06$	
$RO = 240'$	



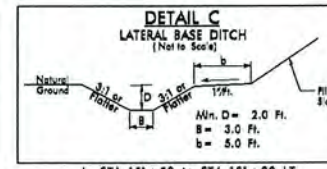
DENOTES EXCAVATION IN WETLAND



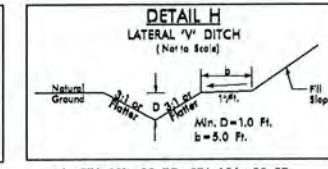
DENOTES HAND CLEARING



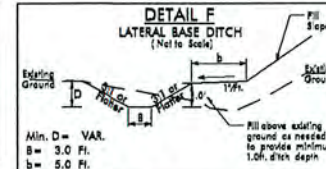
-L- STA. 104+80 TO STA. 142+00 LT DDE=4025 CY
 -L- STA. 147+00 TO STA. 151+50 LT DDE=264 CY



-L- STA. 151+50 TO STA. 181+00 LT DDE=6255 CY



-L- STA. 151+39 TO STA. 156+50 RT DDE=261 CY



-L- STA. 142+00 TO STA. 147+00 LT DDE=202 CY

NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
 PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
 SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

SEE SHEET 34 FOR -L- PROFILE

REVISIONS

30-JAN-2015 15:00 and Narrative\R-2514C_Ut-1114_UE12.psh.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2514C	UE-13
DESIGNED BY: MEH	
DRAWN BY: MEH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

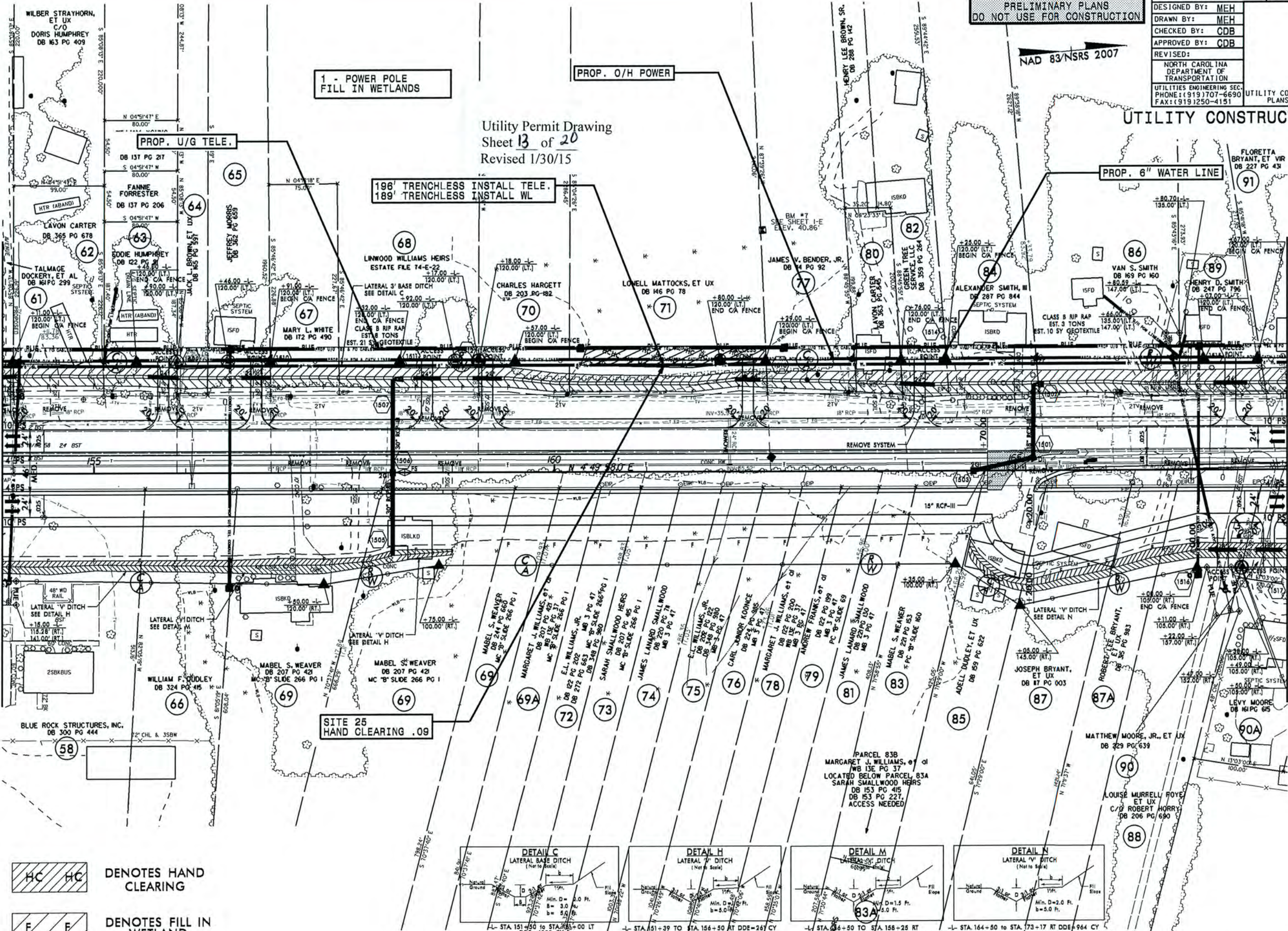
NAD 83/NSRS 2007

Utility Permit Drawing
Sheet 13 of 20
Revised 1/30/15

UTILITY CONSTRUCTION

MATCHLINE -L- STA. 154+00.00 SEE SHEET 12

MATCHLINE -L- STA. 168+00.00 SEE SHEET 14



HC HC DENOTES HAND CLEARING

F F DENOTES FILL IN WETLAND



NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

SEE SHEET 34 FOR -L- PROFILE

REVISIONS

30-JAN-2015 p1503 15-UE13.psh.dgn 15-UE13C Ut. and Narrative R-2514C

PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-14
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

NAD 83/NSRS 2007

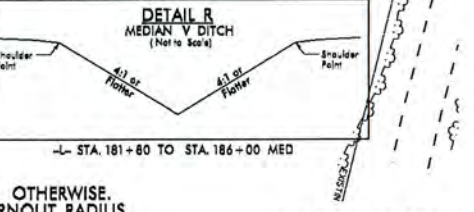
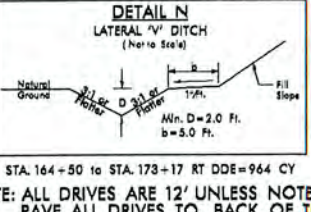
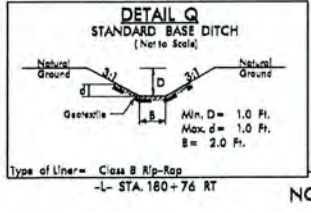
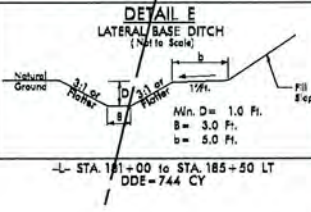
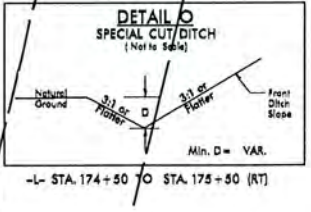
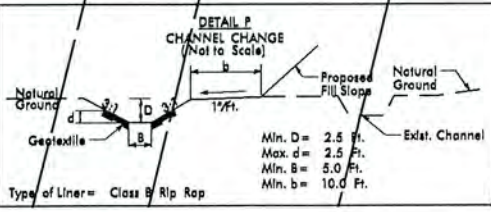
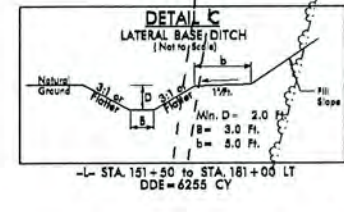
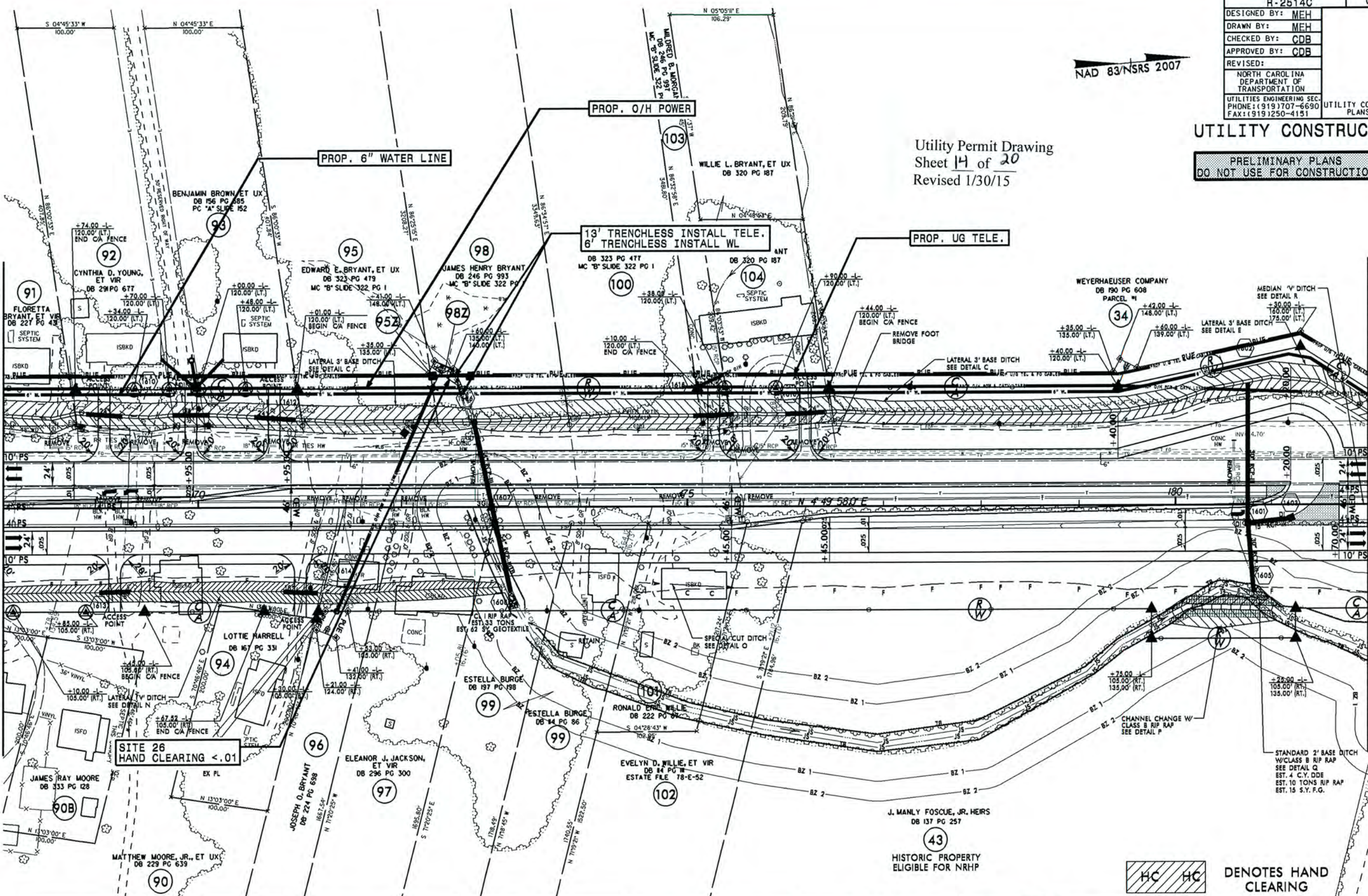
UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Utility Permit Drawing
Sheet 14 of 20
Revised 1/30/15

MATCHLINE -L- STA. 168+00.00 SEE SHEET 13

MATCHLINE -L- STA. 182+00.00 SEE SHEET 15



NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAVE ALL DRIVES TO BACK OF TURNOUT RADIUS.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS.

SEE SHEET 35 FOR -L- PROFILE

REVISIONS

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 1/16/15

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

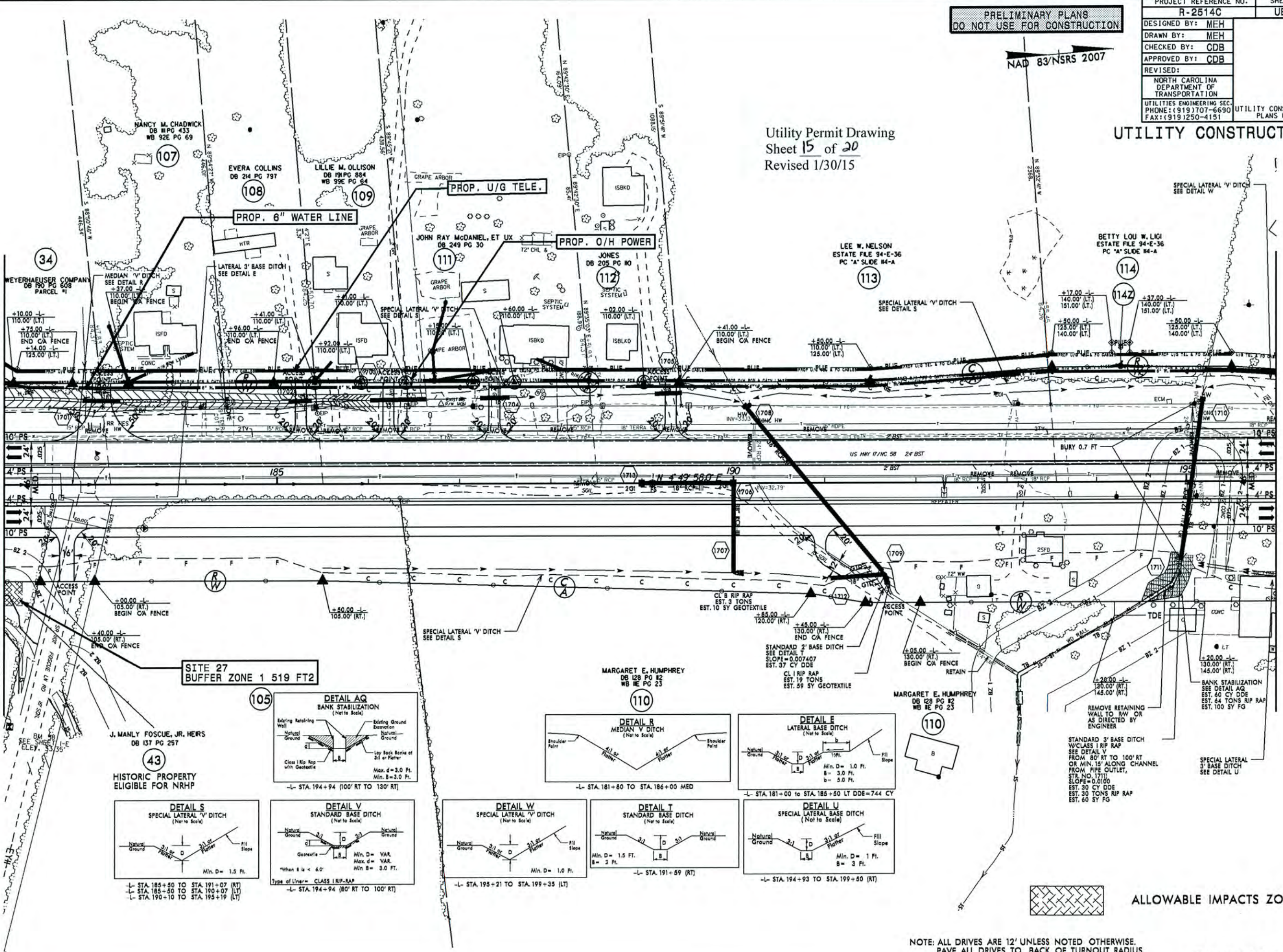
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DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	CDB		
APPROVED BY:	CDB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
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NAD 83/NSRS 2007

Utility Permit Drawing
Sheet 15 of 20
Revised 1/30/15

UTILITY CONSTRUCTION

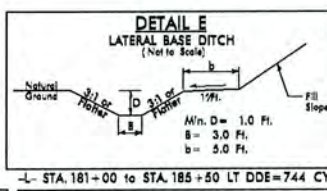
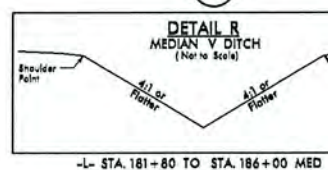
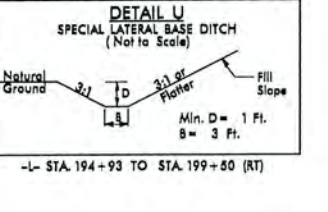
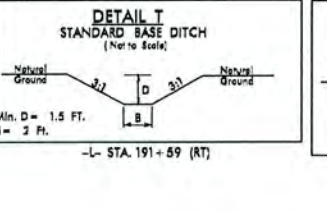
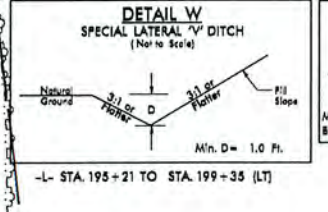
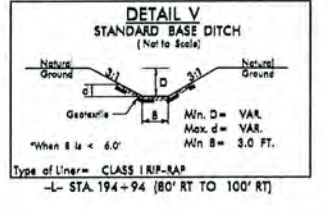
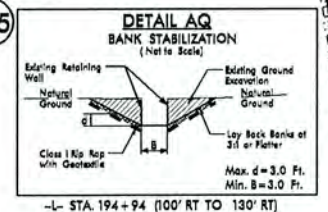
MATCHLINE -L- STA. 182+00.00 SEE SHEET 14



REVISIONS

SITE 27
BUFFER ZONE 1 519 FT²

43
HISTORIC PROPERTY
ELIGIBLE FOR NRHP



ALLOWABLE IMPACTS ZONE 1

NOTE: ALL DRIVES ARE 12' UNLESS NOTED OTHERWISE.
PAYE ALL DRIVES TO BACK OF TURNOUT RADII.
SEE SHEET 2A-5 FOR DRIVEWAY PROFILE DETAILS. SEE SHEET 35 FOR -L- PROFILE

5/14/09
02 FEB-2015 09:04
and Narrative NR-2514C.Ut.r-117-UE15.psh.dgn

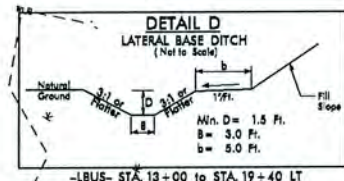
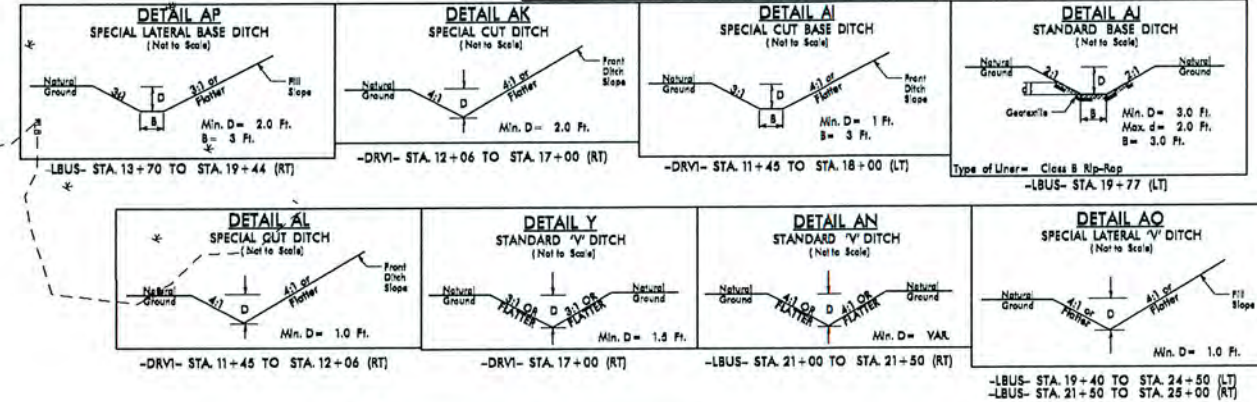
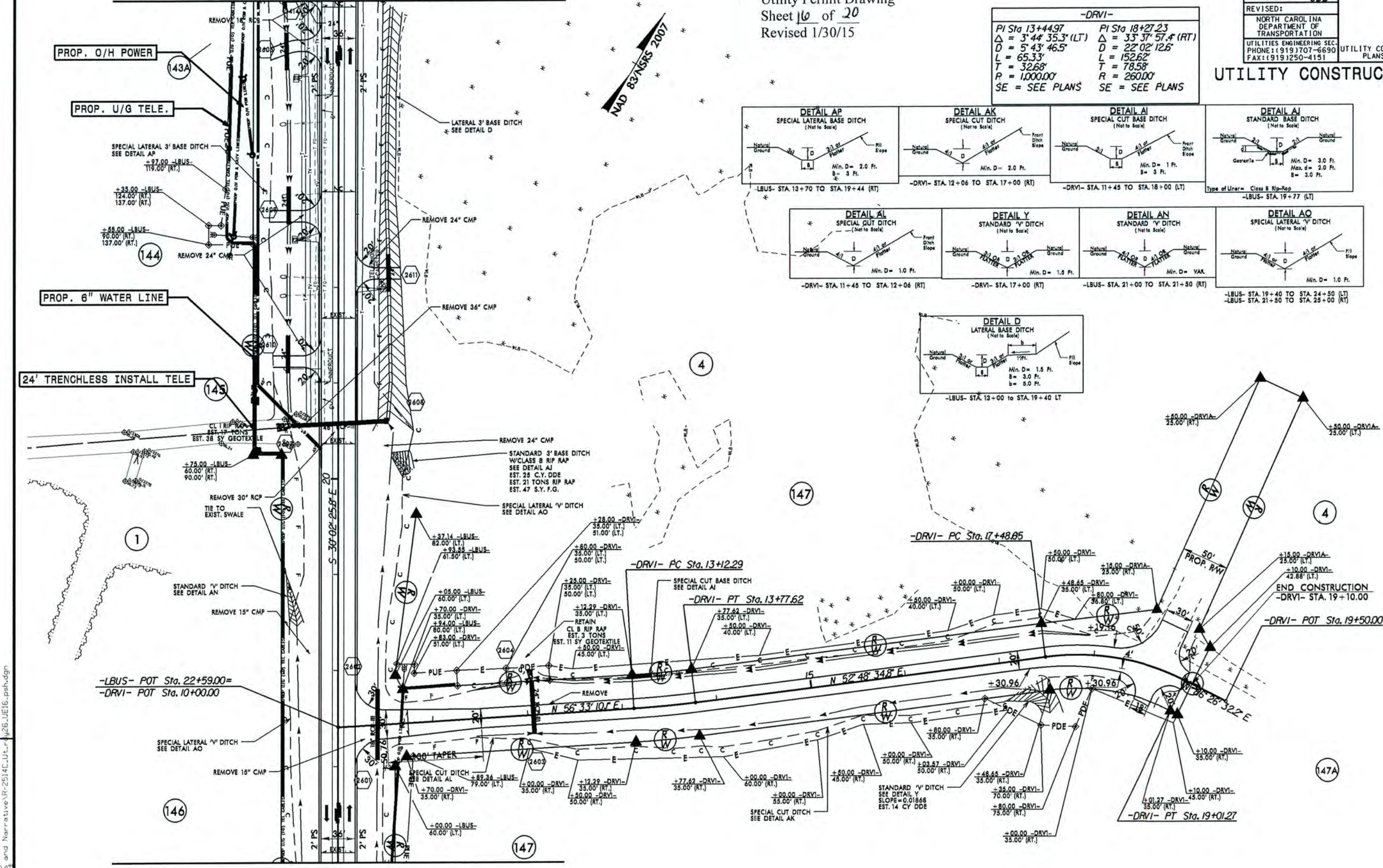
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT REFERENCE NO.	R-2514C	SHEET NO.	UE-16
DESIGNED BY:	MEH		
DRAWN BY:	MEH		
CHECKED BY:	ODB		
APPROVED BY:	ODB		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

MATCHLINE -LBUS- STA. 15+00.00 SEE SHEET 2

Utility Permit Drawing
Sheet 16 of 20
Revised 1/30/15

-DRVI-	
PI Sta 13+44.97 $\Delta = 3^\circ 44' 35.3" (LT)$ $D = 5^\circ 43' 46.5"$ $L = 65.33'$ $T = 32.68'$ $R = 1,000.00'$ SE = SEE PLANS	PI Sta 18+27.23 $\Delta = 3^\circ 37' 57.4" (RT)$ $D = 22^\circ 02' 12.6"$ $L = 152.62'$ $T = 78.58'$ $R = 260.00'$ SE = SEE PLANS



REVISIONS

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SEE SHEET 40 FOR -LBUS- PROFILE
SEE SHEET 43 FOR -DRVI- PROFILE

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)
1	L 14+85 - 21+27.10	OH Power/ 6" Water Line		0.01	0.11			0.35				
2	LBUS 10+99 - 14+00	OH Power/ 6" Water Line		<.01	0.10			0.15				
3	L 23+82.74 - 24+54.75	6" Water Line			0.01			0.03				
4	L 30+09.12 - 30+33.16	OH Power/ 6" Water Line		<.01				0.01				
5	L 33+24.70 - 35+37	OH Power/ 6" Water Line						0.12				
6	L 37+03.24 - 37+10.52	OH Power/ 6" Water Line						<.01				
7	L 37+79.43 - 40+68.89	OH Power/ 6" Water Line						0.12				
8	L 49+53.15 - 49+73.23	OH Power						0.01				
9	L 61+85.84 - 62+63.94	OH Power/ 6" Water Line			<.01			0.04				
10	L 64+85.68 - 66+69.71	OH Power/ 6" Water Line						0.09				
11	L 64+82.90 - 65+02.91	OH Power						0.01				
12	L 76+79.36 - 76+89.85	OH Power						<.01				
13	L 78+03.15 - 79+72.19	OH Power						0.10				
14	L 80+73.42 - 81+67.23	OH Power/ 6" Water Line		<.01	0.01			0.02				
15	L 95+17.90 - 100+16.87	OH Power/ 6" Water Line		0.01				0.18				
16	L 92+90.92 - 93+10.19	OH Power						0.01				
17	L 106+37.92 - 108+92.00	OH Power						0.10				
18	L 122+89.61 - 123+09.95	OH Power						0.01				
19	L 127+14.66 - 127+70.53	OH Power/ 6" Water Line			<.01			0.02				
20	L 128+15.72 - 128+89.88	OH Power/ 6" Water Line			<.01			0.02				
21	L 130+03.89 - 131+31.42	OH Power/ 6" Water Line		<.01	0.02			0.04				
22	L 135+44.57 - 136+16.23	OH Power/ 6" Water Line			<.01			0.03				
23	L 146+17.42 - 148+52.41	6" Water Line						0.03				
24	L 149+60.12 - 150+62.20	OH Power/ 6" Water Line			0.02			0.03				
25	L 160+31.11 - 162+21.27	OH Power/ 6" Water Line						0.09				
26	L 172+38.67 - 172+69.97	OH Power						<.01				
28	L 36+28.65 - 36+48.73	OH Power						0.01				
29	L 45+80.71 - 46+00	OH Power						0.01				
	20 Poles	Power Poles		0.05								
TOTALS:				0.07	0.27			1.63				

Note: * TEMPORARY FILL AND TEMPORARY EXCAVATION WILL BE USED TO INSTALL THE 6' WATER LINE BY METHOD OF OPEN CUT

Revised 02/05/15

Utility Permit Drawing
 Sheet 17 of 20
 Revised 2/5/15

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

JONES COUNTY
 WBS - 34442.2.4 (R-2514C)

Merged with Impact Summary Sheet 17 of 20

Utility Permit Drawing
Sheet 18 of 20

Merged with Impact Summary Sheet 17 of 20

Utility Permit Drawing
Sheet 19 of 20

