

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107

and

THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Office of Environmental Quality Control
Water Quality Certification and Wetlands Programs Section
2600 Bull Street
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N # SAC 2011-00311-DS

January 16, 2015

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the South Carolina Department of Health and Environmental Control by

South Carolina Department of Transportation
P.O. Box 191, 955 Park Street
Columbia, South Carolina 29202

for a permit to place fill within wetlands adjacent to the following waters, these waters, and their tributaries;

Little Willow Creek, Cypress Creek, Big Swamp Creek, and Little Swamp Creek

at a location along a 24.2 mile long segment of SC-51 (Pamplico Highway) from an area just south of the intersection of SC-51 and S-57 (Claussen Road) to the intersection of SC-51 and U.S. 378 in Florence County, South Carolina (northern terminus: 34.145289°N, -79.728175°W, southern terminus: 33.885094°N, -79.509943°W)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by the **Corps** until

15 DAYS FROM THE DATE OF THIS NOTICE,

and **SCDHEC** will receive written statements regarding the proposed work until

30 DAYS FROM THE DATE OF THIS NOTICE,

from those interested in the activity and whose interests may be affected by the proposed work.

Proposed Work: The proposed work consists of widening of a 24.2 mile long segment of SC-51 (Pamplico Highway) from a location just south of the intersection of SC-51 and S-57 (Claussen Road) to the intersection of SC-51 with US-378. The project consists of a construction of a five lane roadway section that includes four, 12 foot wide travel lanes with a single 15 foot wide center turn lane/median, and two, 10 foot wide shoulders (each shoulder includes 2 foot wide paving with 8 foot wide grass shoulder).

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Proposed impacts to waters of the U.S.: The proposed project will impact a total of; 8.1 acres of wetlands from cut/fill activities, 2981 linear feet of streams from placement of fill and/or structures, and 0.35 acres of open waters from cut/fill activities. All impacts are associated with construction of additional SC-51 roadway.

Purpose: According to the applicant, the purpose of the proposed Pamplico Highway improvements is to improve safety and traffic flow by the addition of roadway capacity, as well as to enhance connectivity to the Pee Dee region and Florence County. The proposed widening and intersection improvements on Pamplico Highway are needed to provide a safe and efficient transportation network for the travelling public and for existing manufacturing and distribution companies in the region. These improvements would also help maintain the area's appeal as "one of the best highway freight networks in South Carolina" and for future economic development opportunities.

Avoidance and Minimization: The applicant states that efforts to avoid and/or minimize impact to waters of the U.S. include;

- The applicant considered several different roadway alignments for this project during project development. The preferred alternative utilizes widening along the existing roadway alignment with minor alignment shifts along the route to allow maintenance of traffic on the roadway and to minimize impacts to residences/facilities adjacent to the existing roadway. Based on the permit application, the preferred alternative (when compared to other project alignment alternatives) has the least total impacts to waters of the U.S. while still meeting project purpose and need.
- Drainage ditches side slopes would be sloped between a minimum of 12:1 to a maximum of 4:1, except in wetland areas where ditches would be sloped at a 2:1 side slope to minimize impacts to wetlands.
- The SC-51 road crossings over Willow Creek and Little Swamp will be upgraded as part of this project, from culverted road crossings to bridge crossings that span these tributaries.
- Sedimentation and erosion control measures, consistent with the State's best management practices (BMP's) will be installed during construction.

Mitigation: For the unavoidable impact to waters of the U.S., the applicant is proposing to debit 93.1 wetland credits and 14,667.8 stream credits from the Lynches River Mitigation site

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The District Engineer will not process this application to a conclusion until such certification is received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to Water Quality Certification must submit all comments in writing to the S.C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 8.1 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service

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(NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), the District Engineer has consulted the most recently available information and has determined that the red cockaded woodpecker and the American Chaffseed which are listed Federally endangered species, are present in the vicinity of the project. However, it has been determined that the project will have no effect on this species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

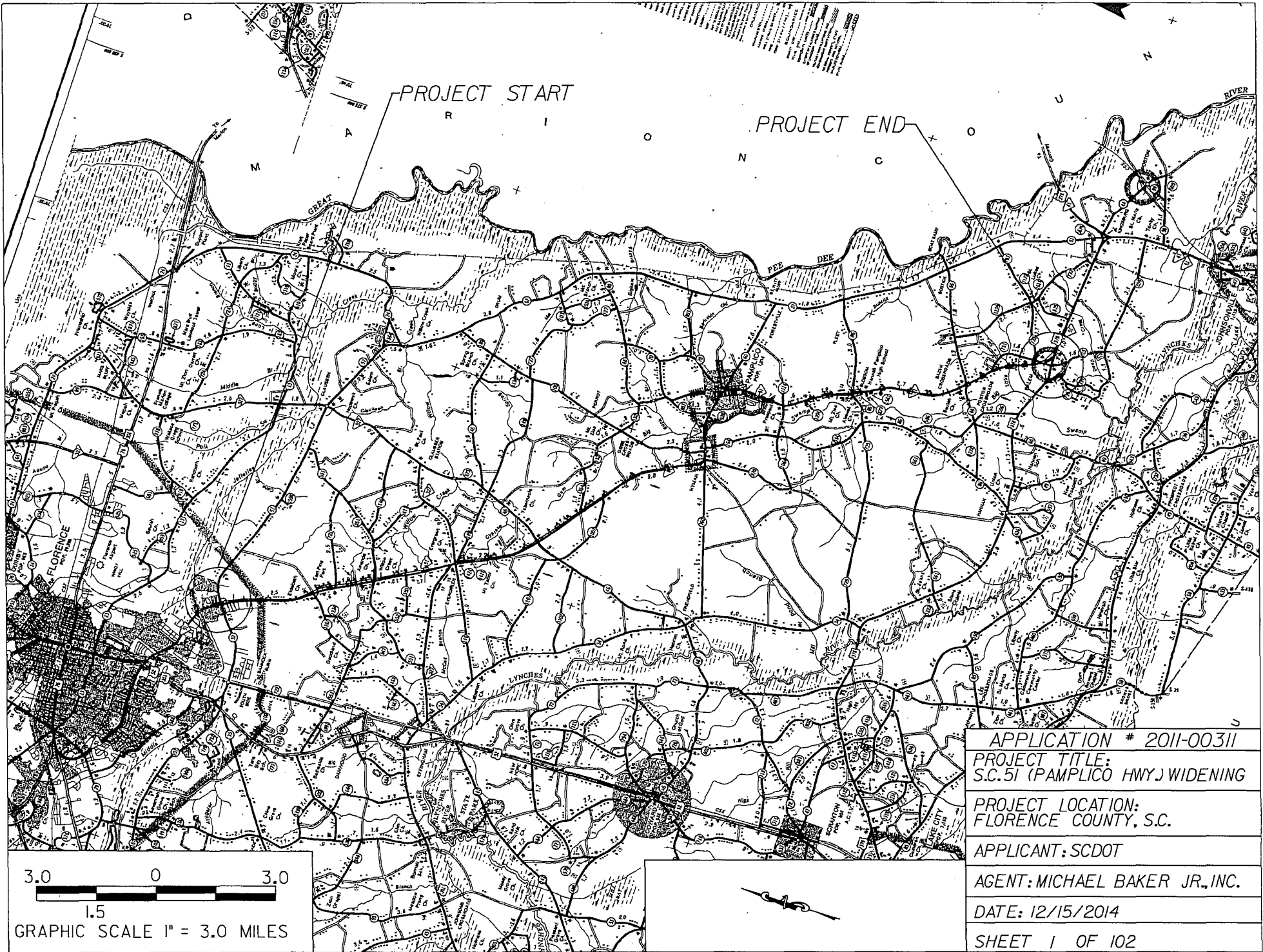
In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

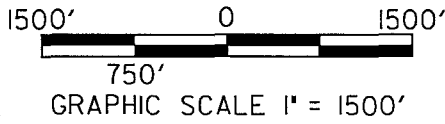
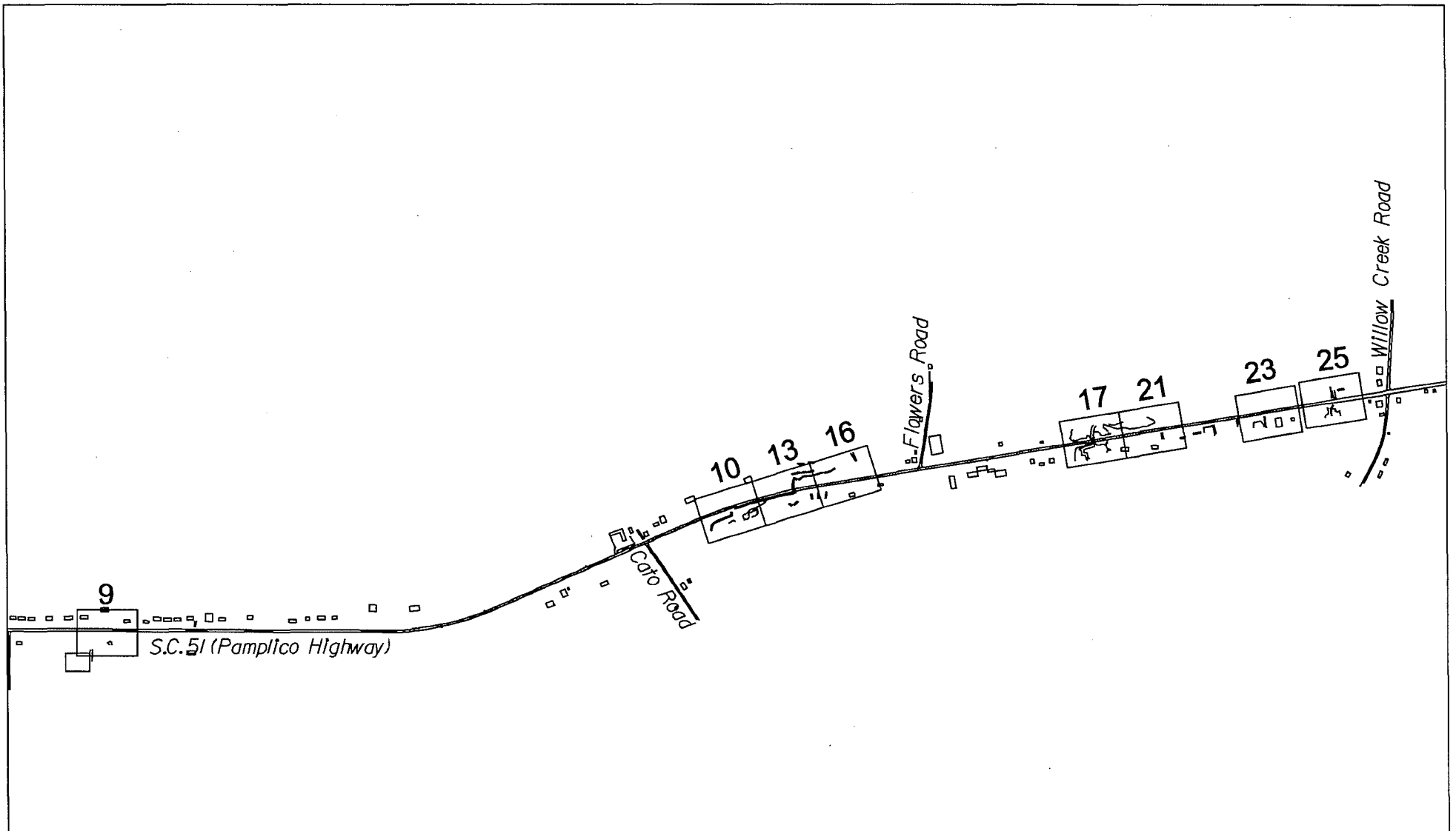
The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

If there are any questions concerning this notice, please contact Stephen Brumagin at 803-253-3444.

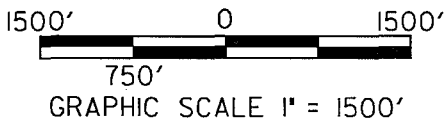
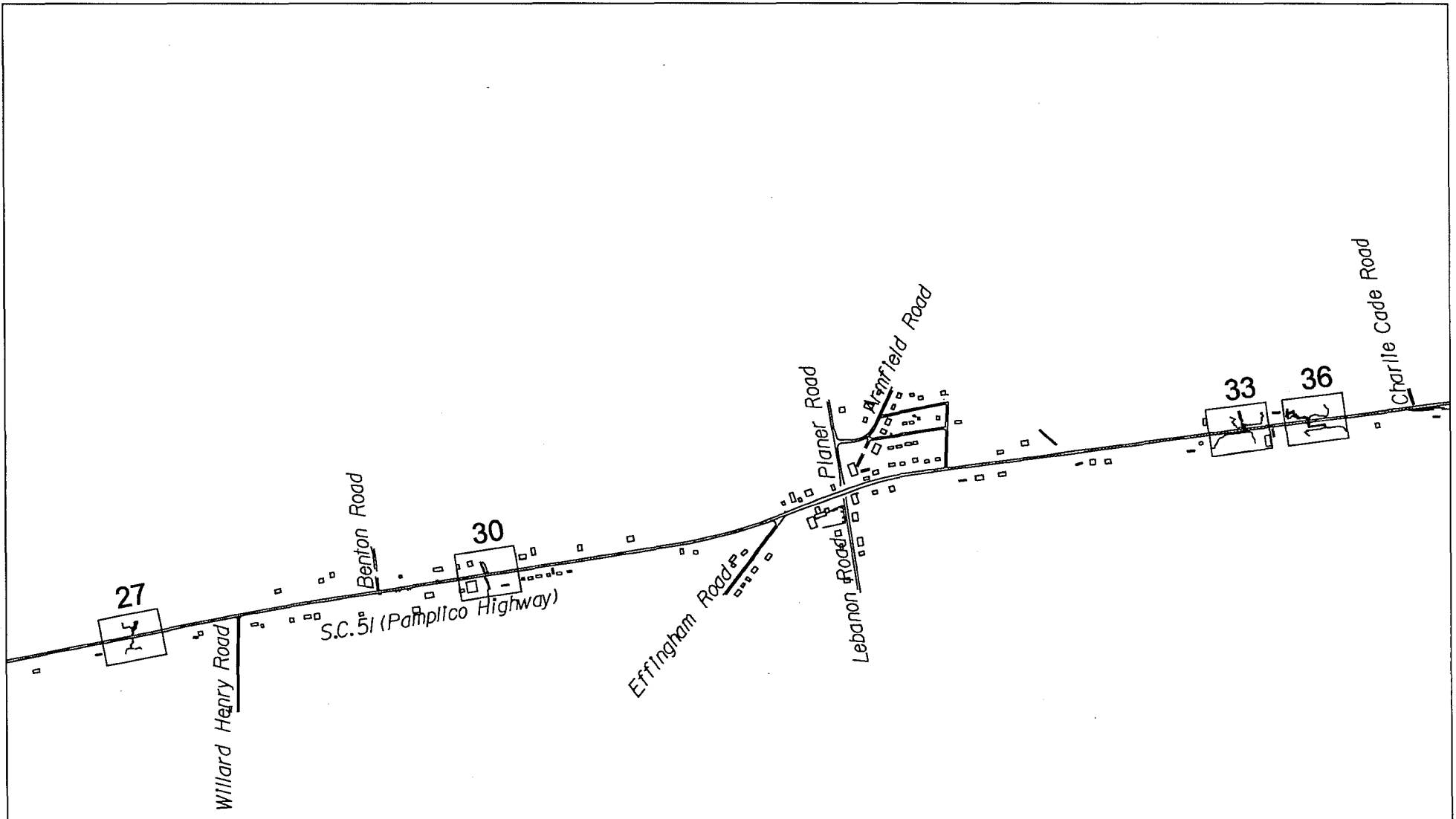


APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 1 OF 102

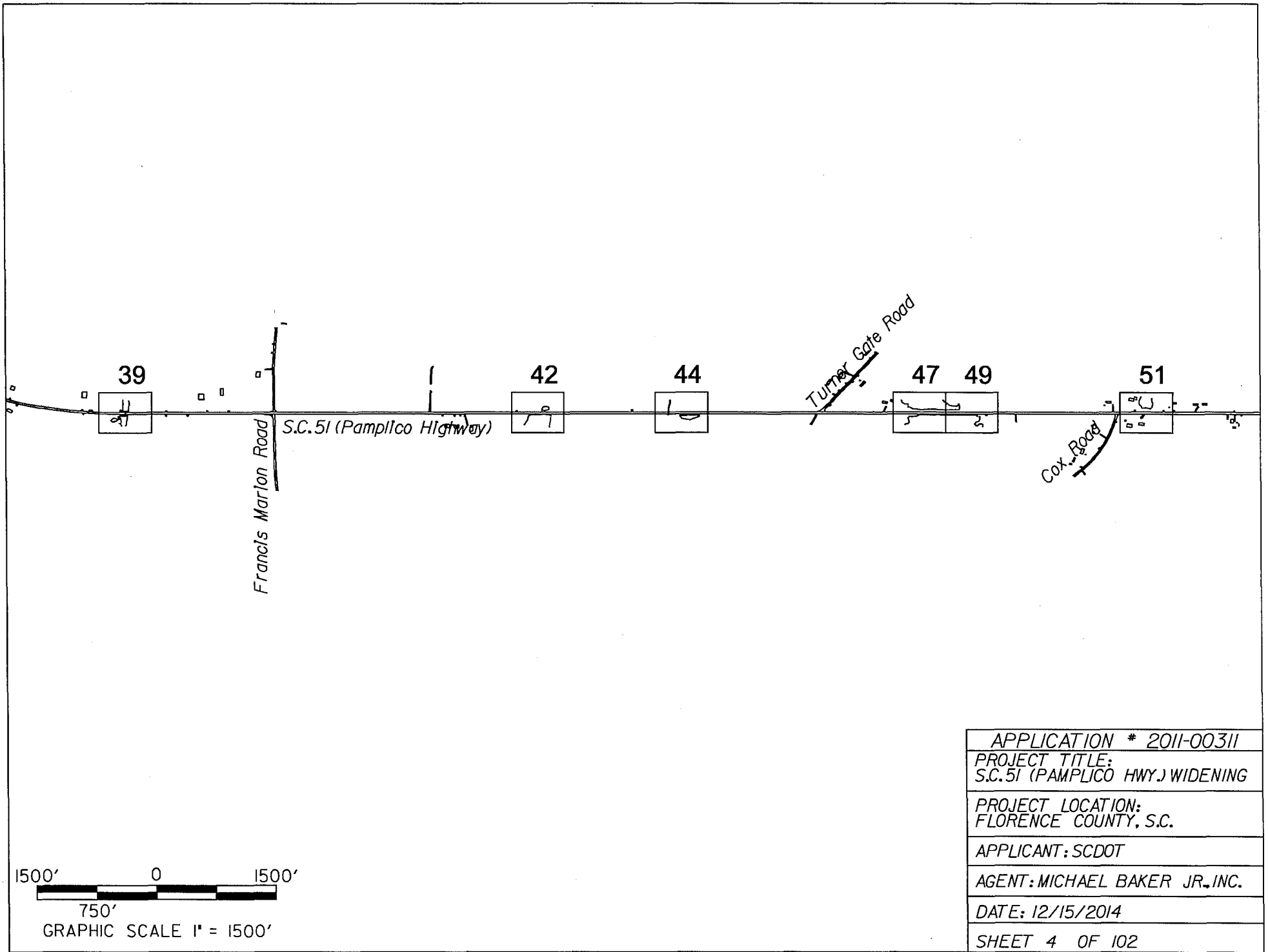
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 1.5
 GRAPHIC SCALE 1" = 3.0 MILES

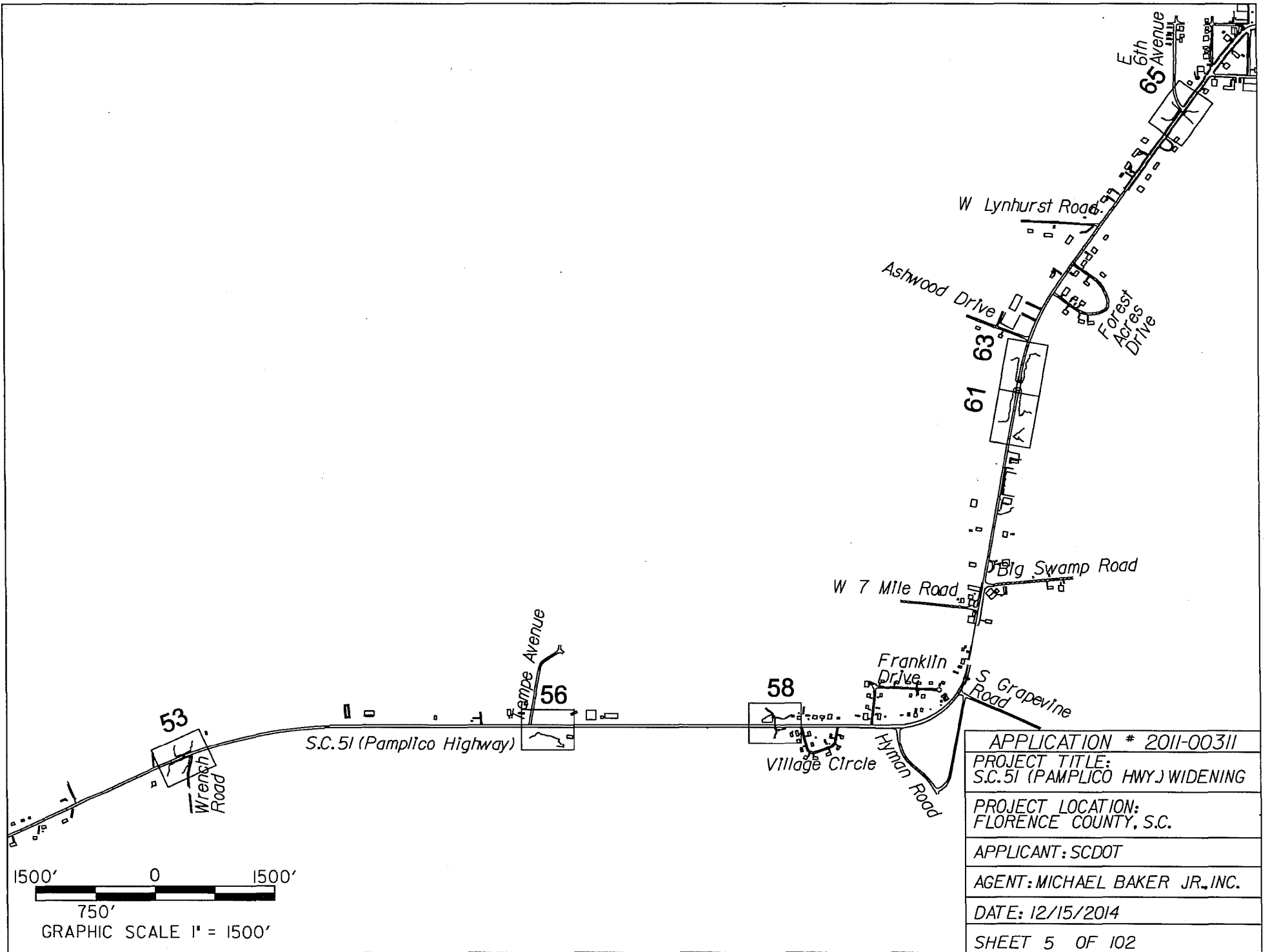


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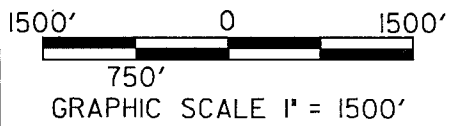
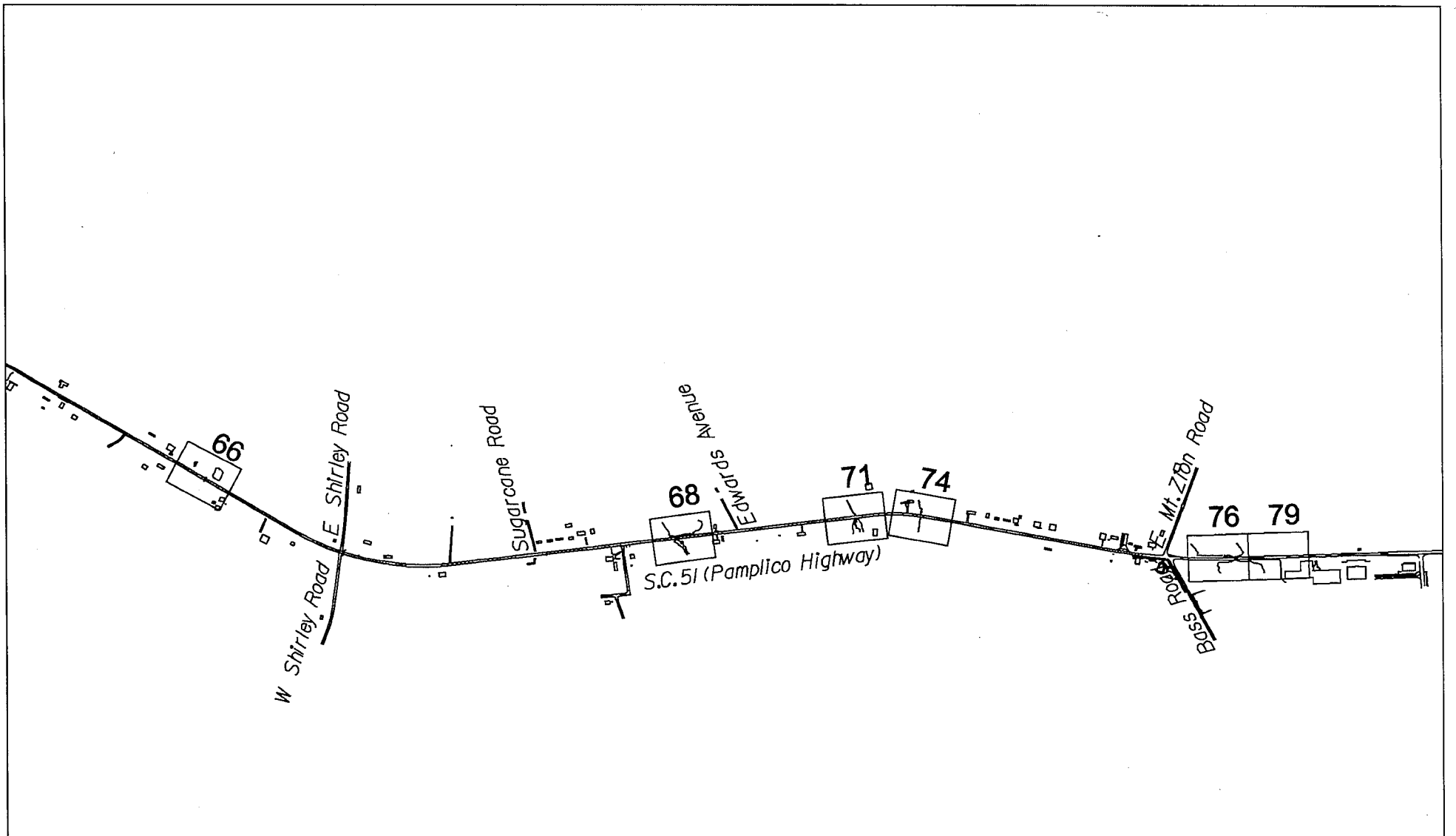


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SHEET 3 OF 102

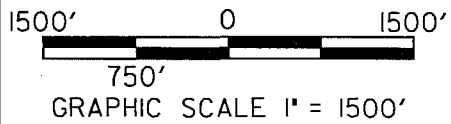
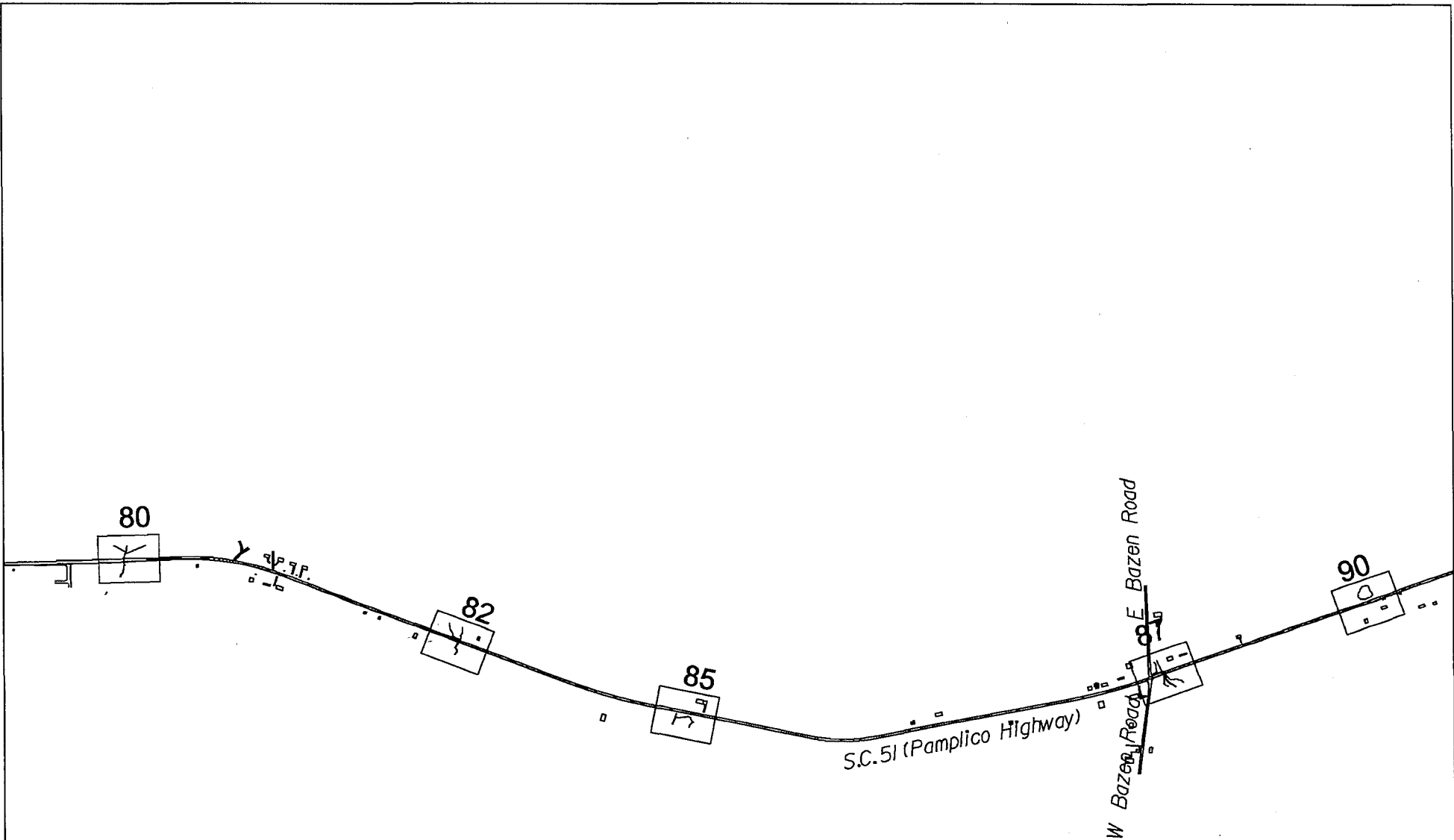




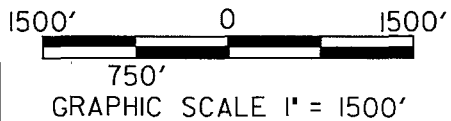
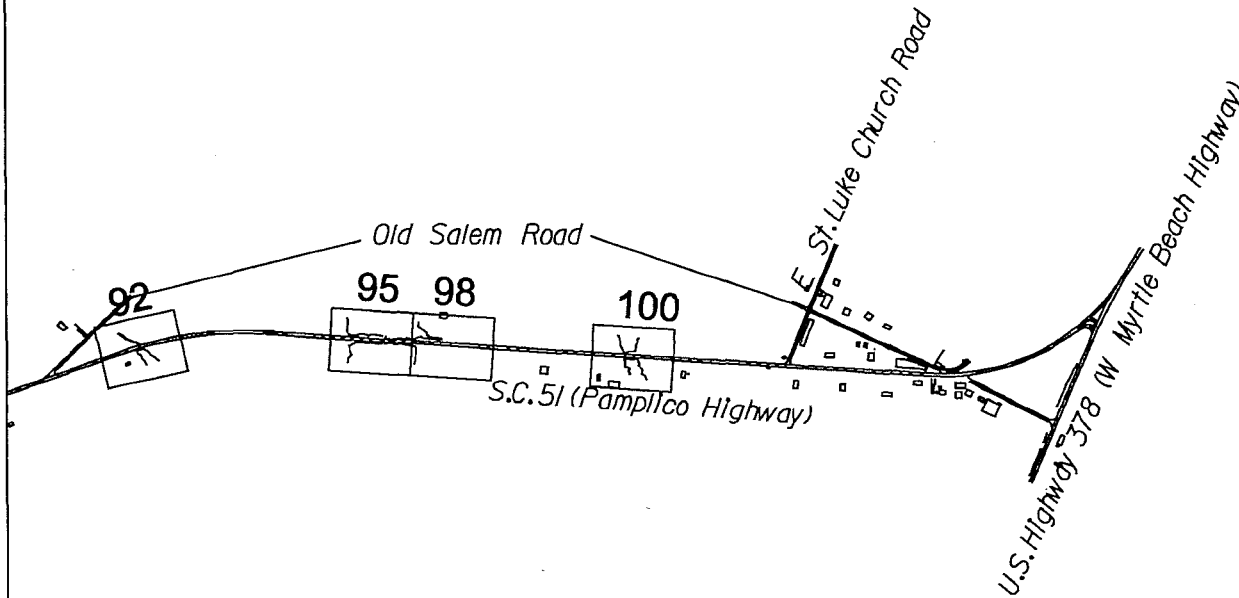
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SHEET 5 OF 102



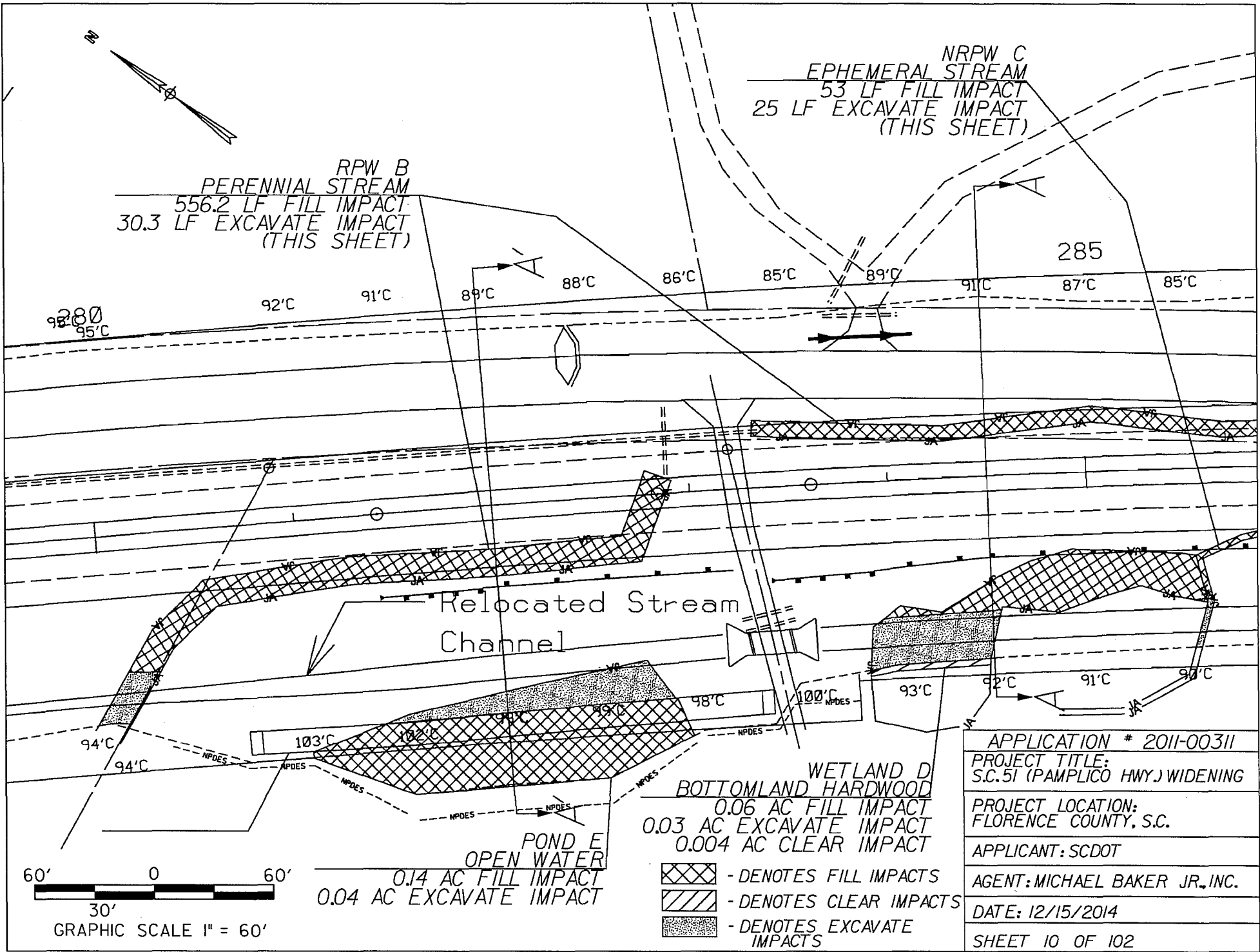
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SHEET 7 OF 102



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SHEET 8 OF 102



RPW B
PERENNIAL STREAM
556.2 LF FILL IMPACT
30.3 LF EXCAVATE IMPACT
(THIS SHEET)

NRPW C
EPHEMERAL STREAM
53 LF FILL IMPACT
25 LF EXCAVATE IMPACT
(THIS SHEET)

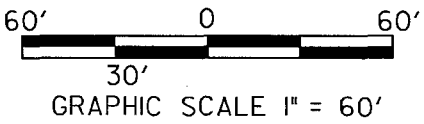
Relocated Stream Channel

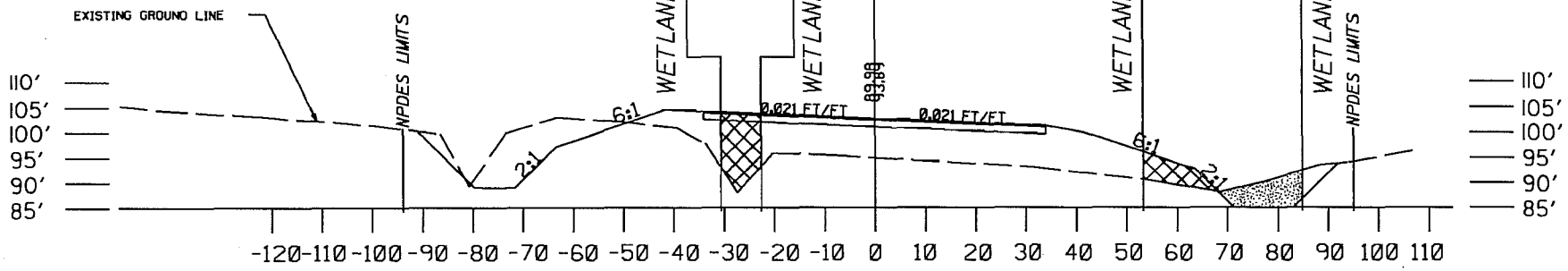
WETLAND D
BOTTOMLAND HARDWOOD
0.06 AC FILL IMPACT
0.03 AC EXCAVATE IMPACT
0.004 AC CLEAR IMPACT

POND E
OPEN WATER
0.14 AC FILL IMPACT
0.04 AC EXCAVATE IMPACT

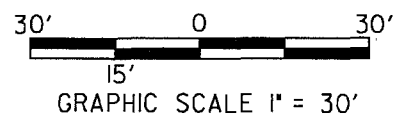
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




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SHEET 10 OF 102



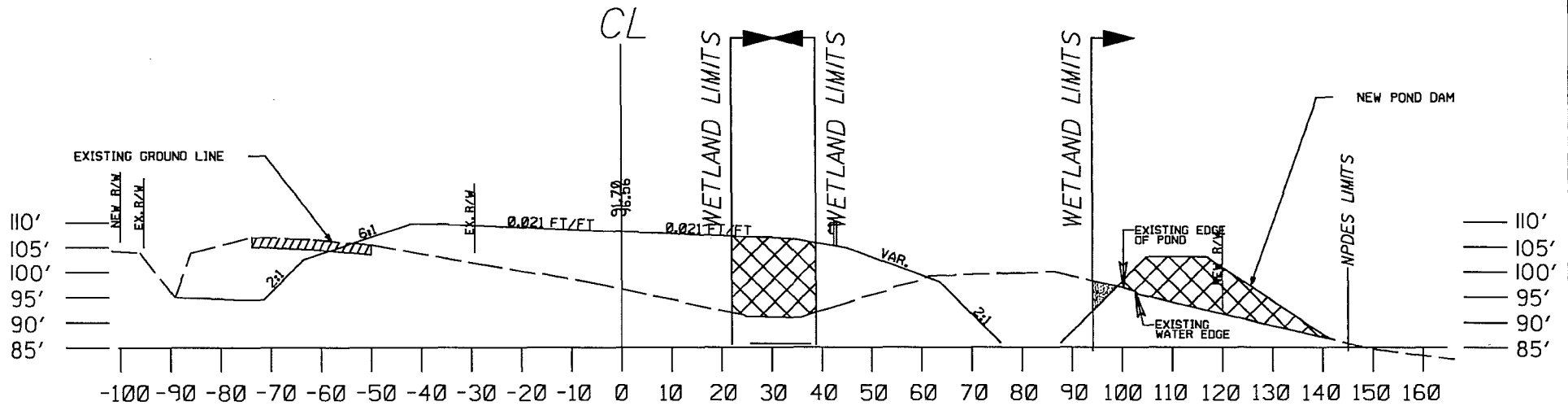


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A - A

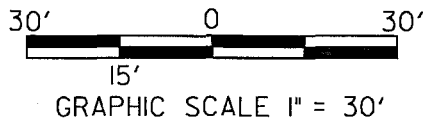





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

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SHEET 11 OF 102



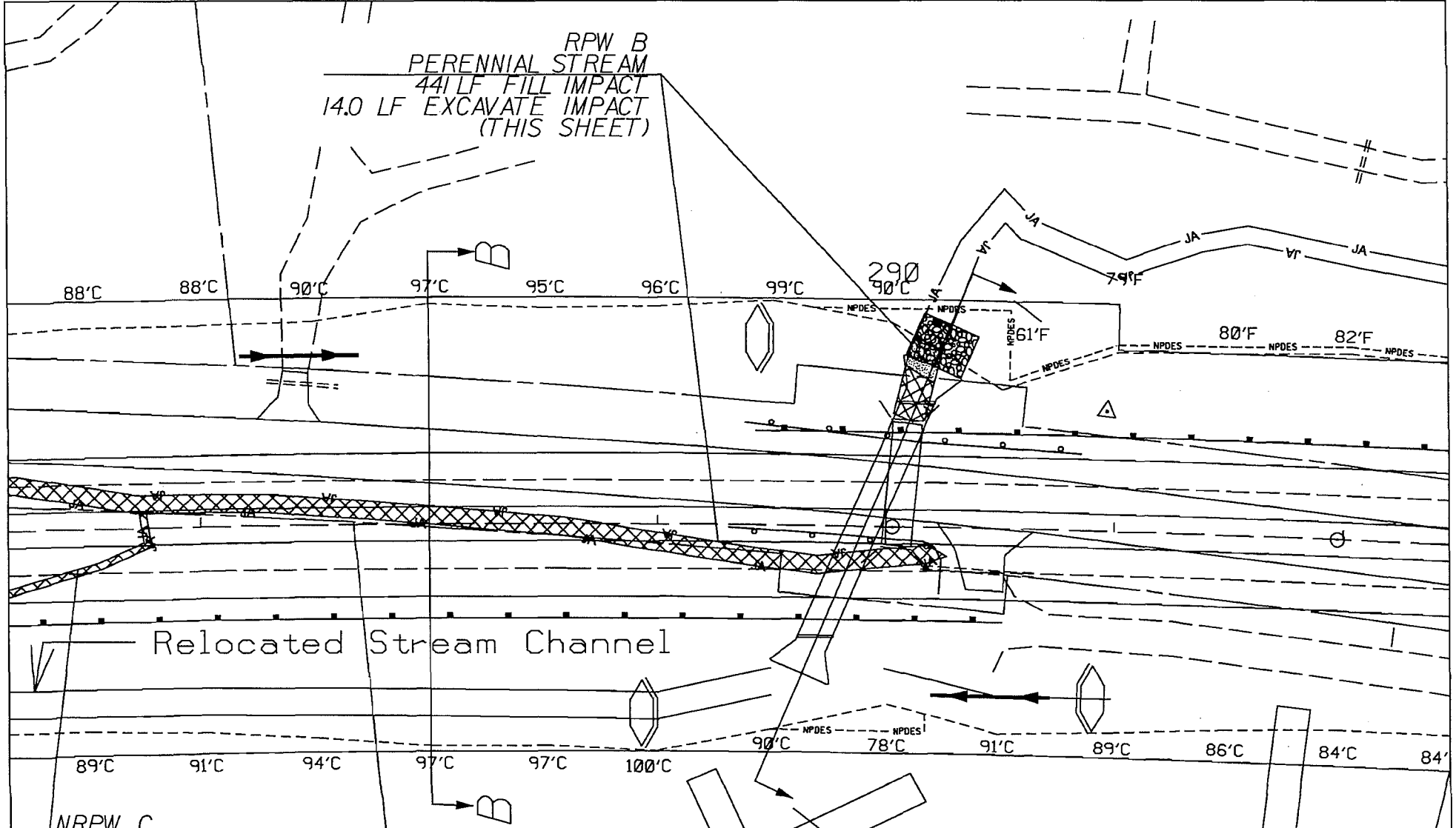
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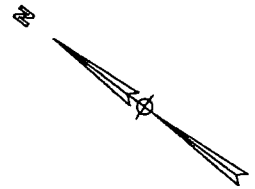
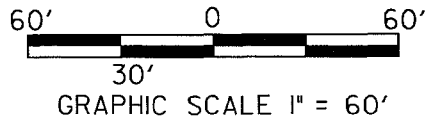
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

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SHEET 12 OF 102

RPW B
 PERENNIAL STREAM
 441 LF FILL IMPACT
 14.0 LF EXCAVATE IMPACT
 (THIS SHEET)

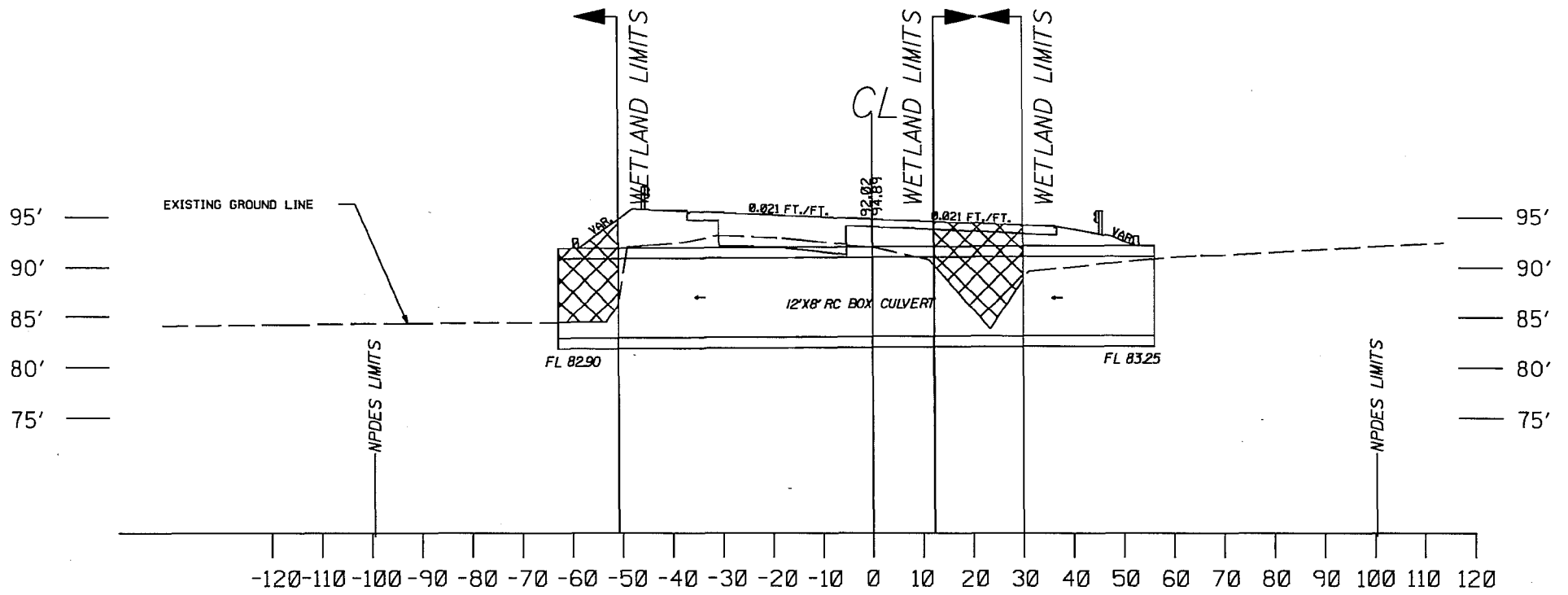


NRPW C
 EPHEMERAL STREAM
 78 LF FILL IMPACT
 (THIS SHEET)

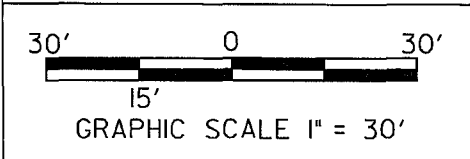





- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

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SHEET 13 OF 102

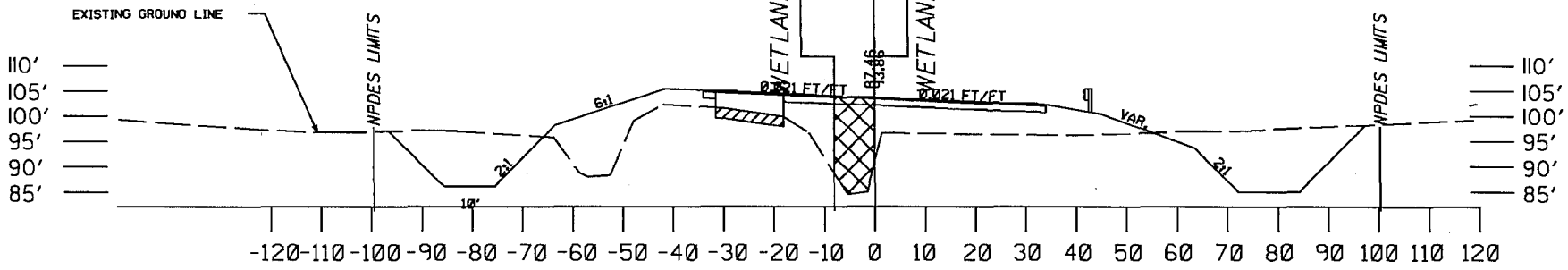


289 + 90.00
1-1

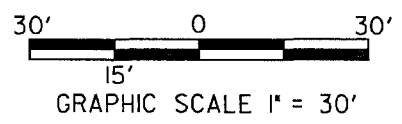





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

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SHEET 14 OF 102



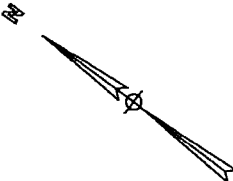
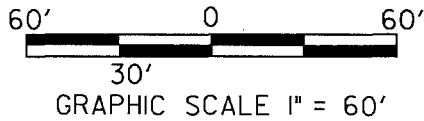
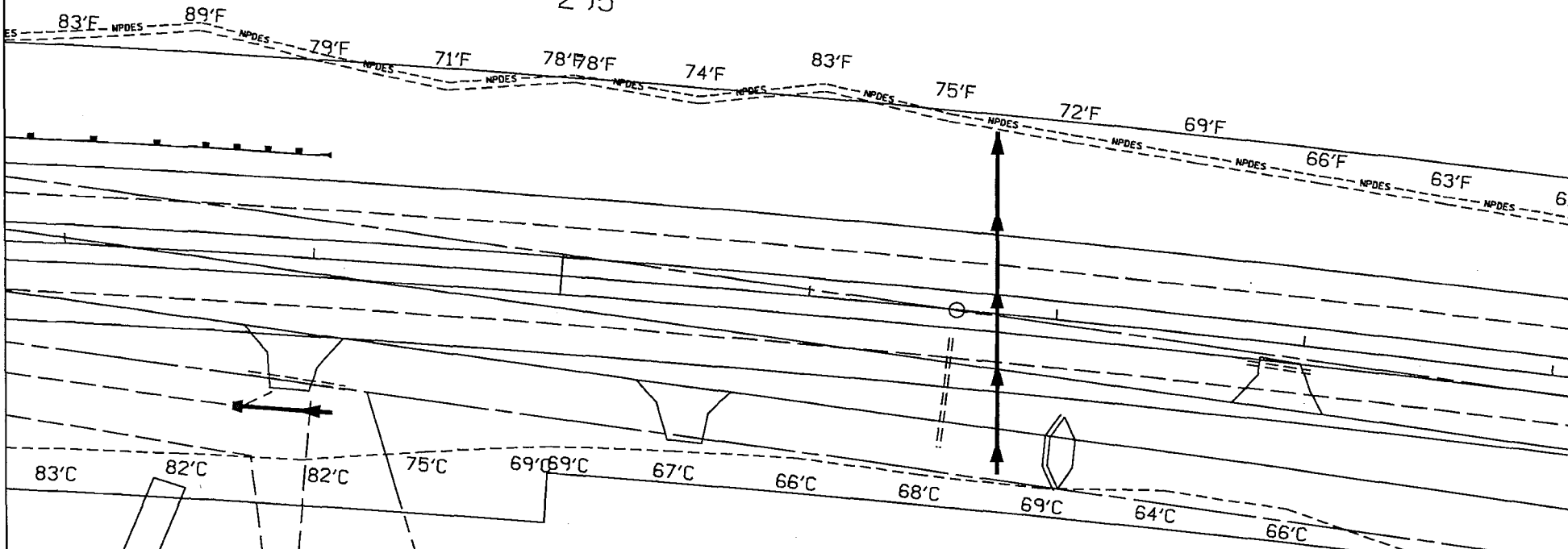
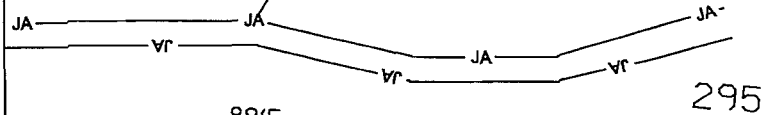
288 + 00.00
B - B



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

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SHEET 15 OF 102

RPW B
PERENNIAL STREAM
NO IMPACT
(THIS SHEET)



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

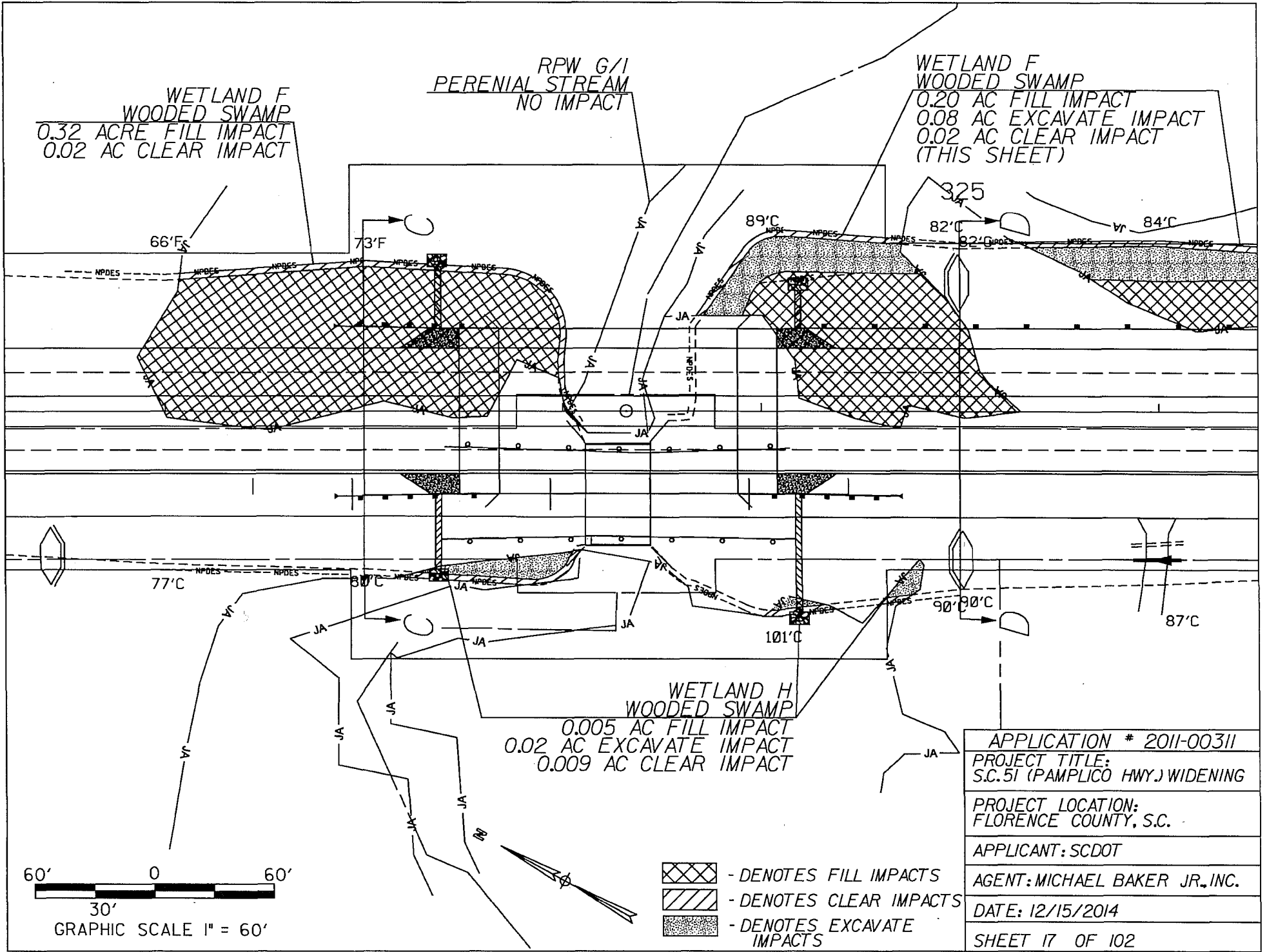
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SHEET 16 OF 102

WETLAND F
WOODED SWAMP
0.32 ACRE FILL IMPACT
0.02 AC CLEAR IMPACT

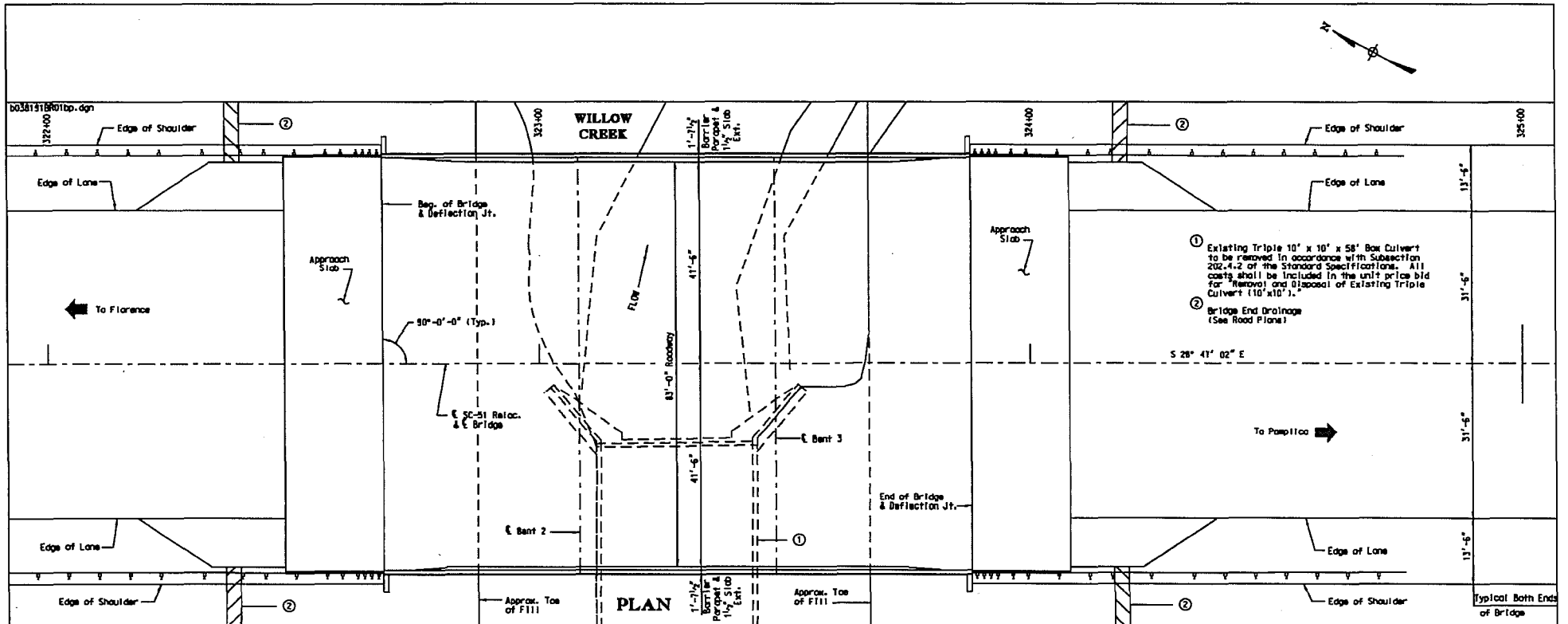
RPW G/I
PERENIAL STREAM
NO IMPACT

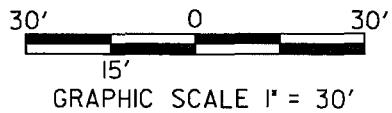
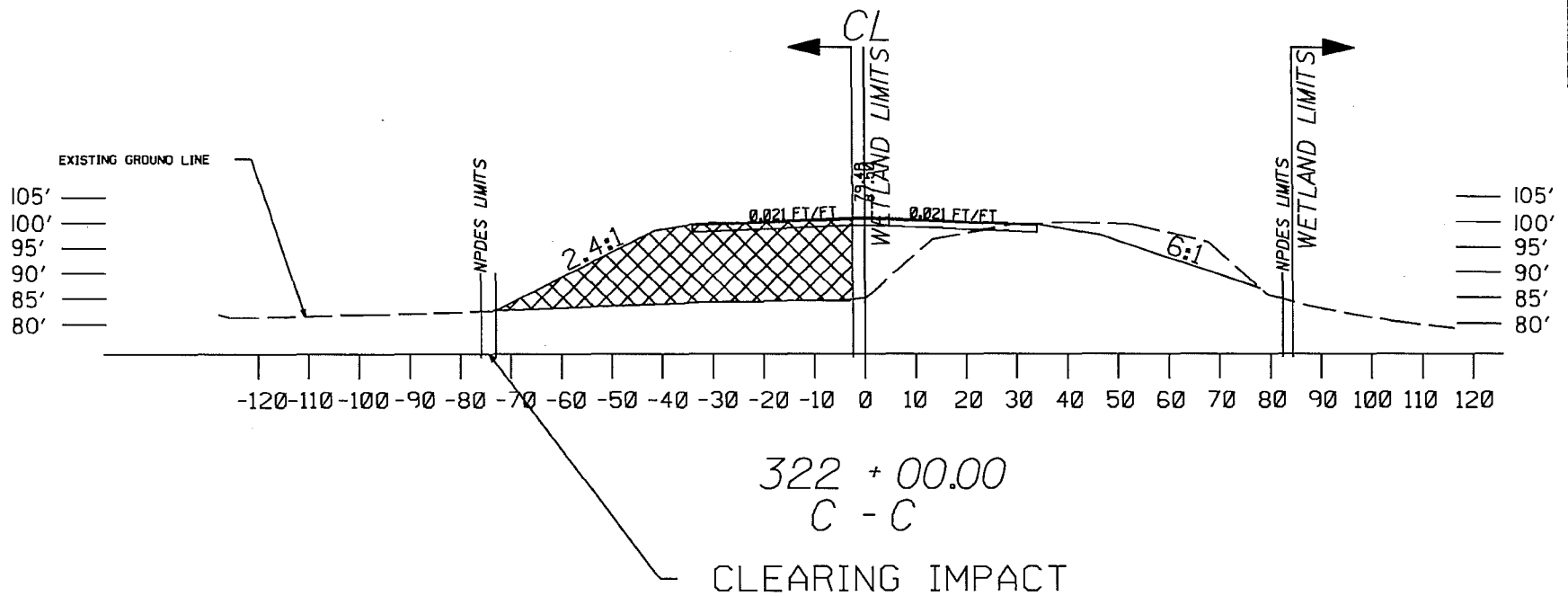
WETLAND F
WOODED SWAMP
0.20 AC FILL IMPACT
0.08 AC EXCAVATE IMPACT
0.02 AC CLEAR IMPACT
(THIS SHEET)




WETLAND H
WOODED SWAMP
0.005 AC FILL IMPACT
0.02 AC EXCAVATE IMPACT
0.009 AC CLEAR IMPACT



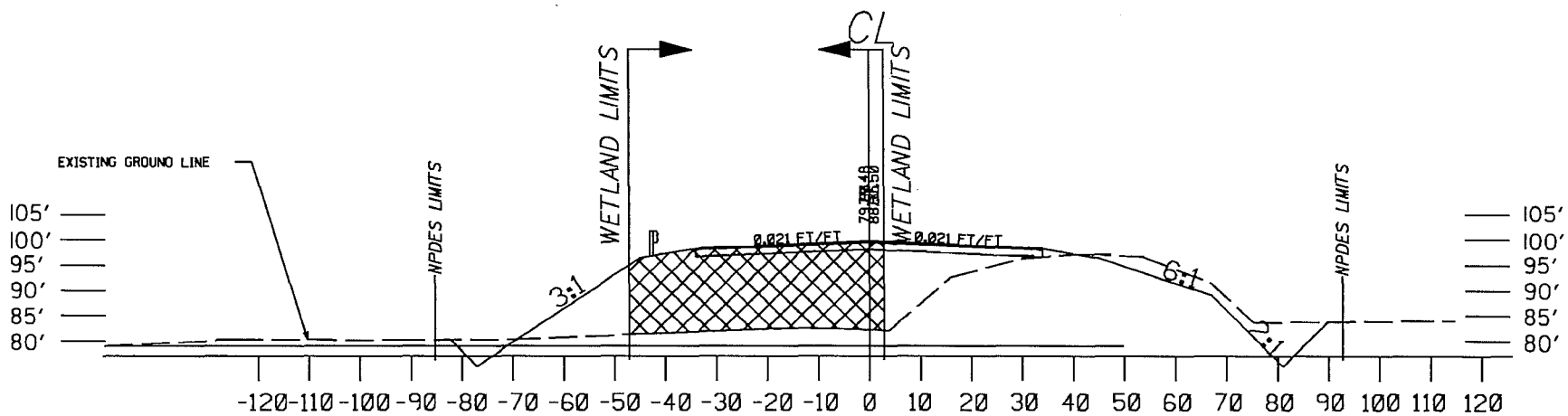
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SHEET 17 OF 102



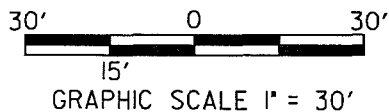





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

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SHEET 19 OF 102



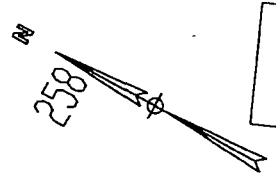
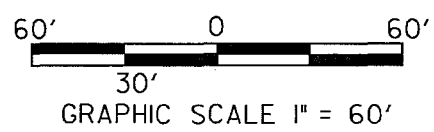
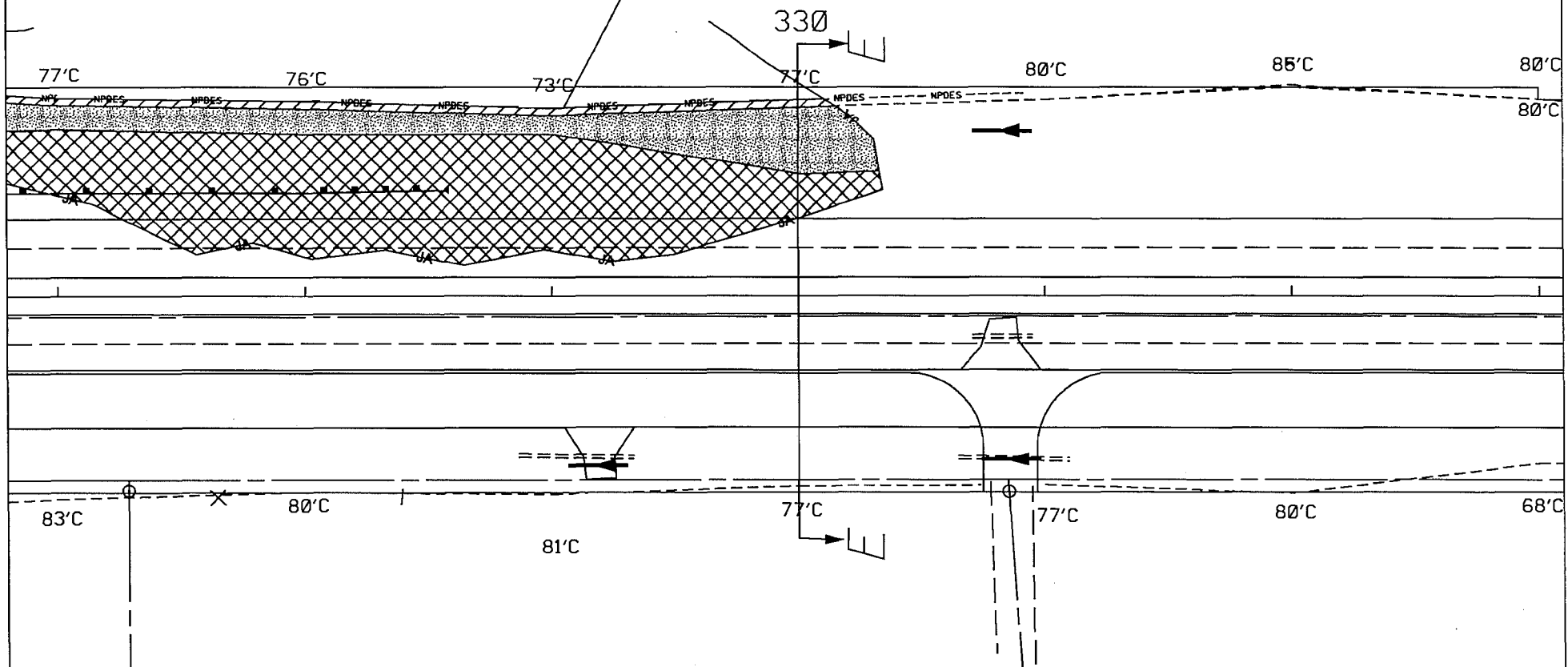
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D - D






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

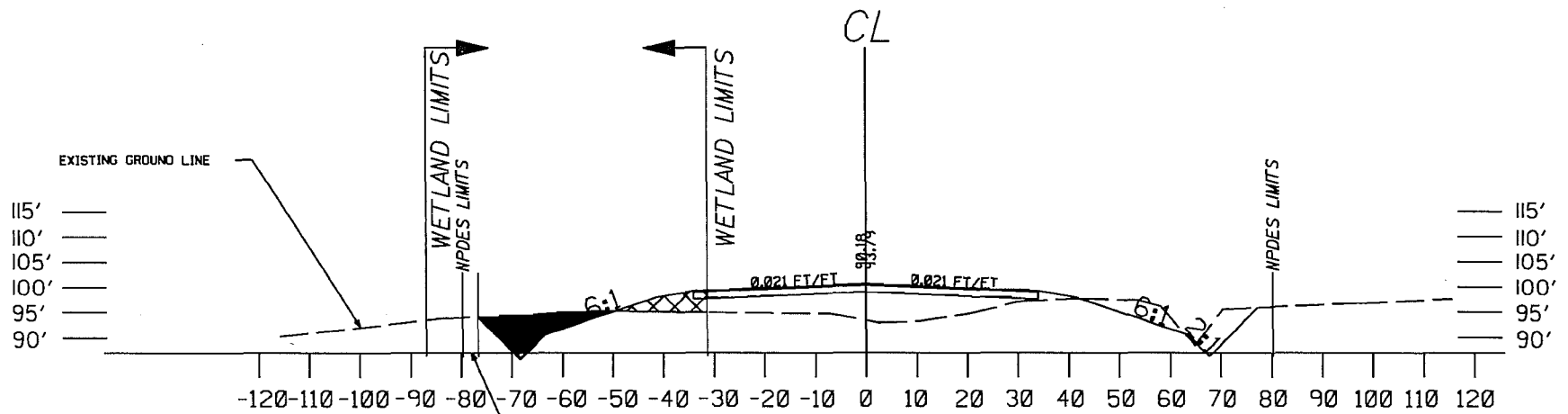
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APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 20 OF 102

WETLAND F
 WOODED SWAMP
 0.33 AC FILL IMPACT
 0.11 AC EXCAVATE IMPACT
 0.024 AC CLEAR IMPACT
 (THIS SHEET)



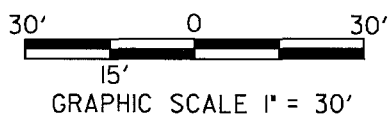
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 21 OF 102



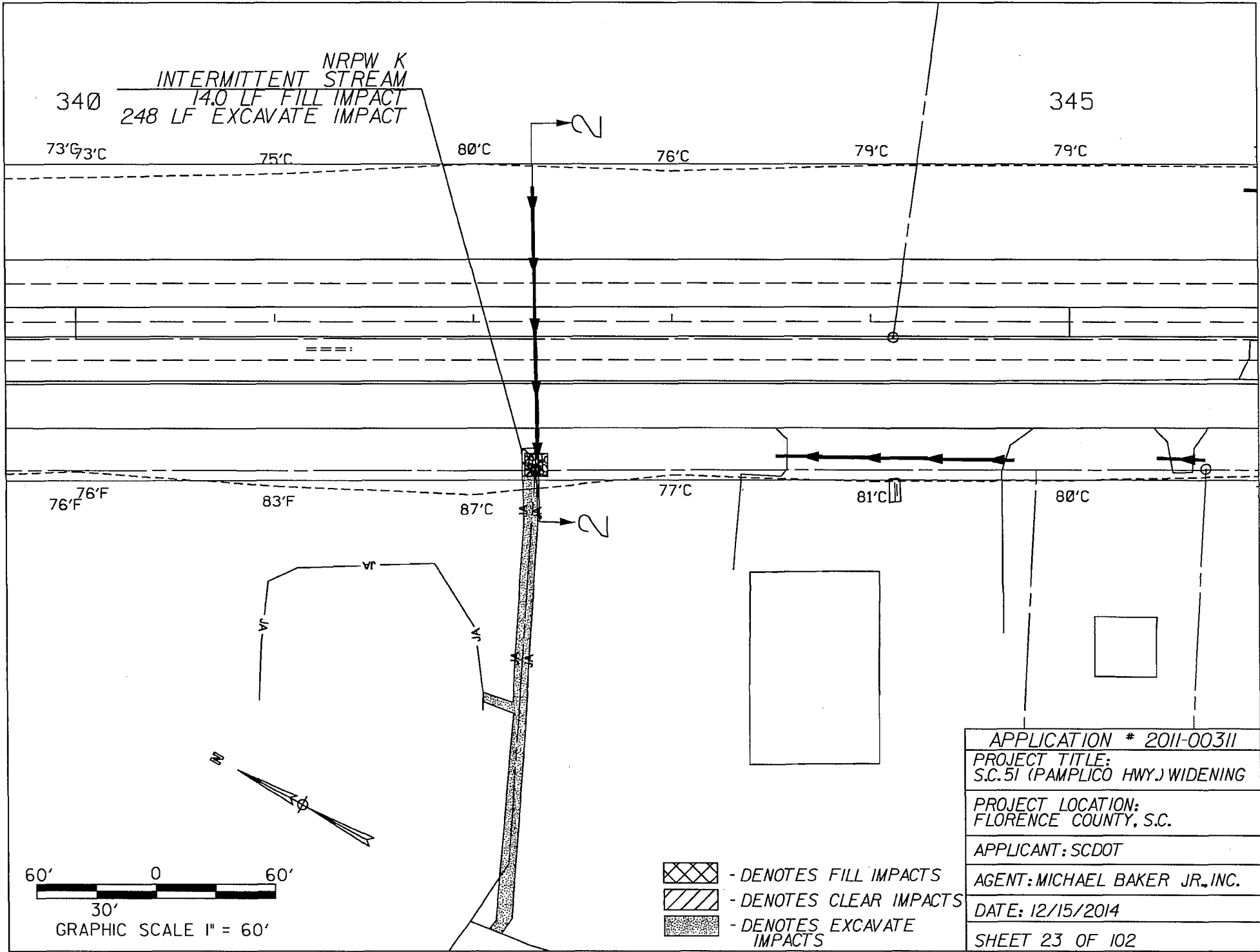
330 + 00.00
E - E

CLEARING IMPACT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 22 OF 102



340 NRPW K
INTERMITTENT STREAM
14.0 LF FILL IMPACT
248 LF EXCAVATE IMPACT

345

73'93'C

75'C

80'C

76'C

79'C

79'C

76'F

83'F




87'C

77'C

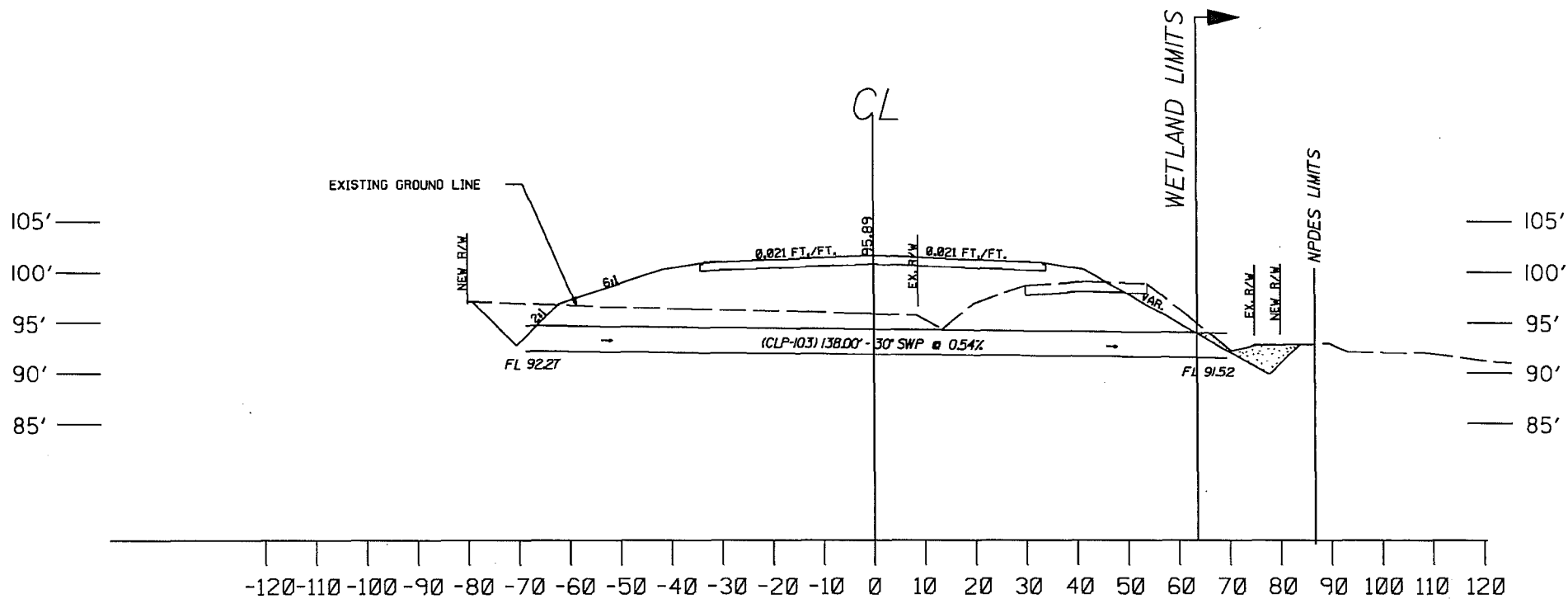
81'C

80'C

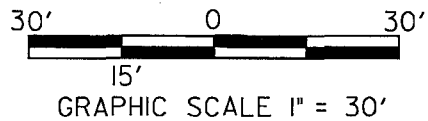
APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 23 OF 102




-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

60' 0 60'
30'
GRAPHIC SCALE 1" = 60'



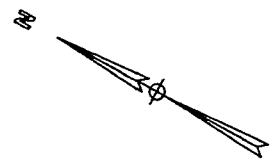
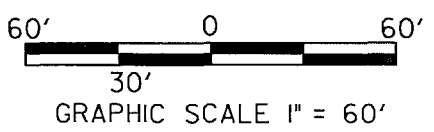
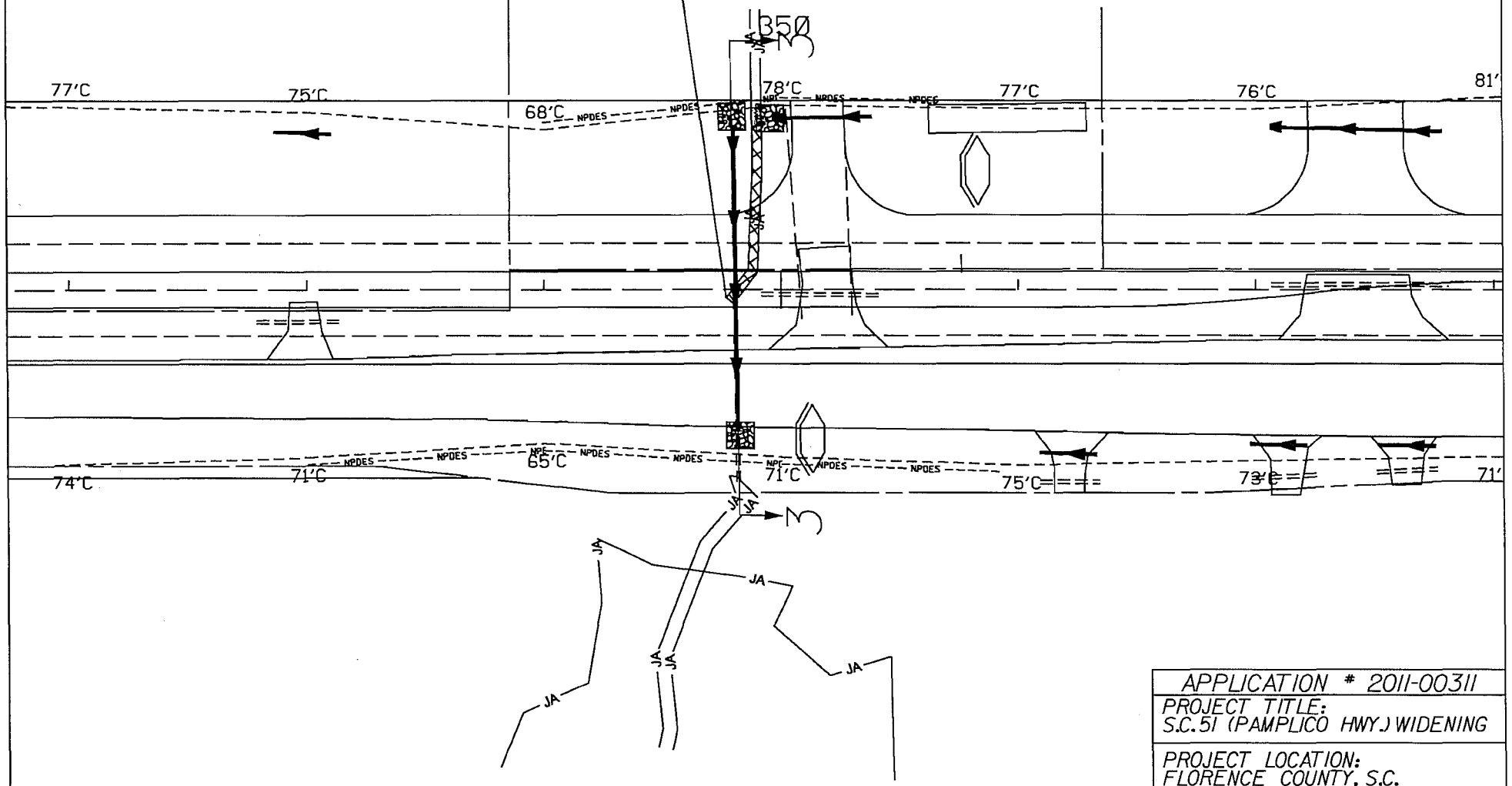
342+30.95
2 - 2






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

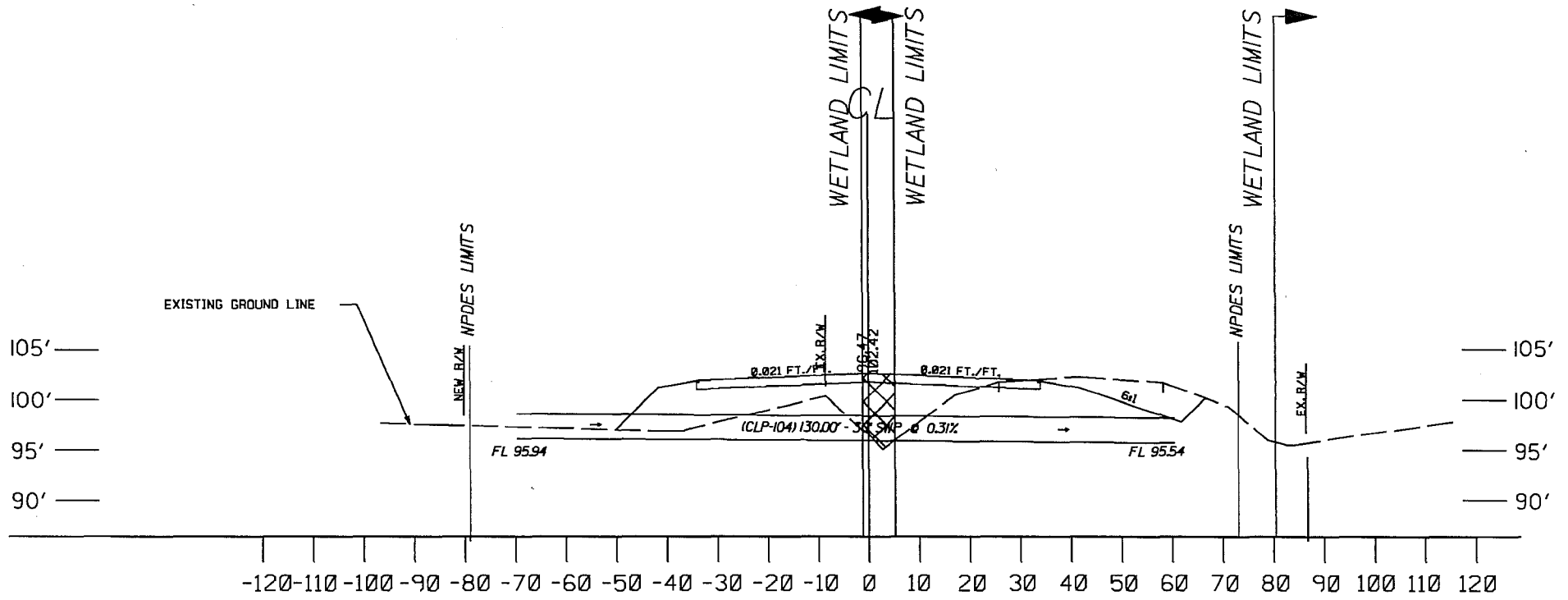
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 24 OF 102

SRPW M
 INTERMITTENT STREAM
 77.2 LF FILL IMPACT
 7.8 LF EXCAVATE IMPACT

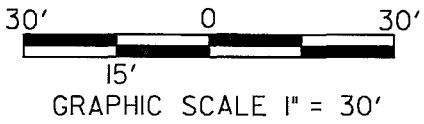





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 25 OF 102



349+80.82
3 - 3

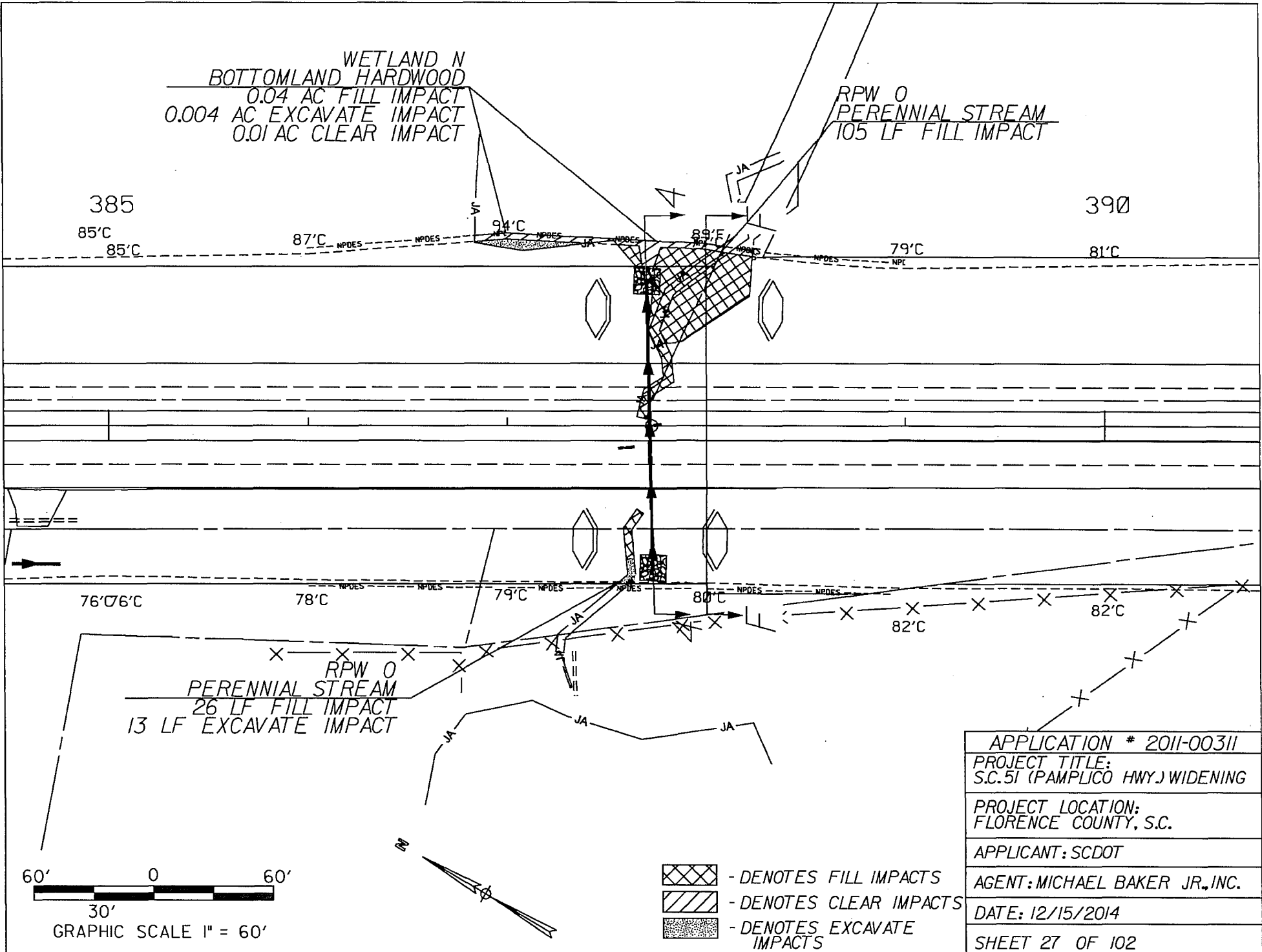


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 26 OF 102




WETLAND N
 BOTTOMLAND HARDWOOD
 0.04 AC FILL IMPACT
 0.004 AC EXCAVATE IMPACT
 0.01 AC CLEAR IMPACT

RPW 0
 PERENNIAL STREAM
 105 LF FILL IMPACT

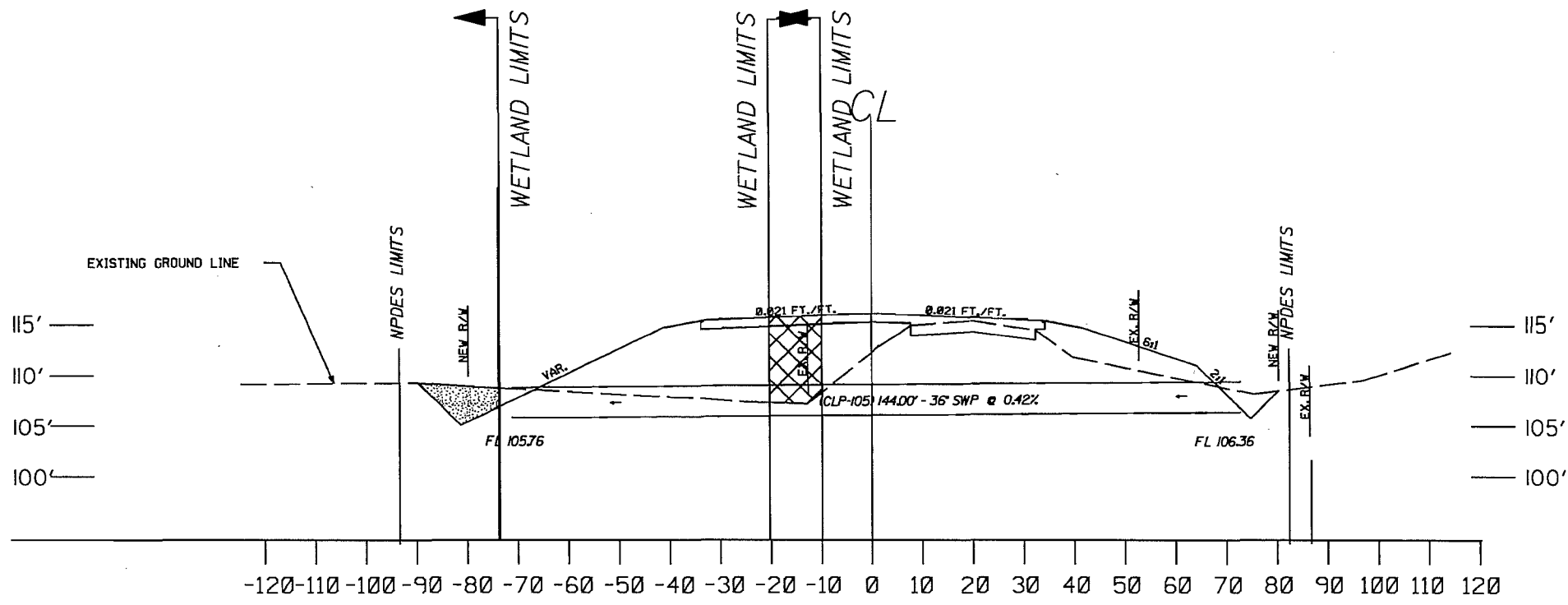


RPW 0
 PERENNIAL STREAM
 26 LF FILL IMPACT
 13 LF EXCAVATE IMPACT

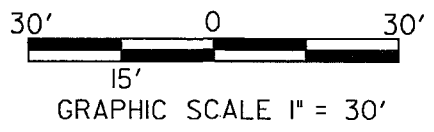
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 27 OF 102




-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

60' 0 60'
 30'
 GRAPHIC SCALE 1" = 60'

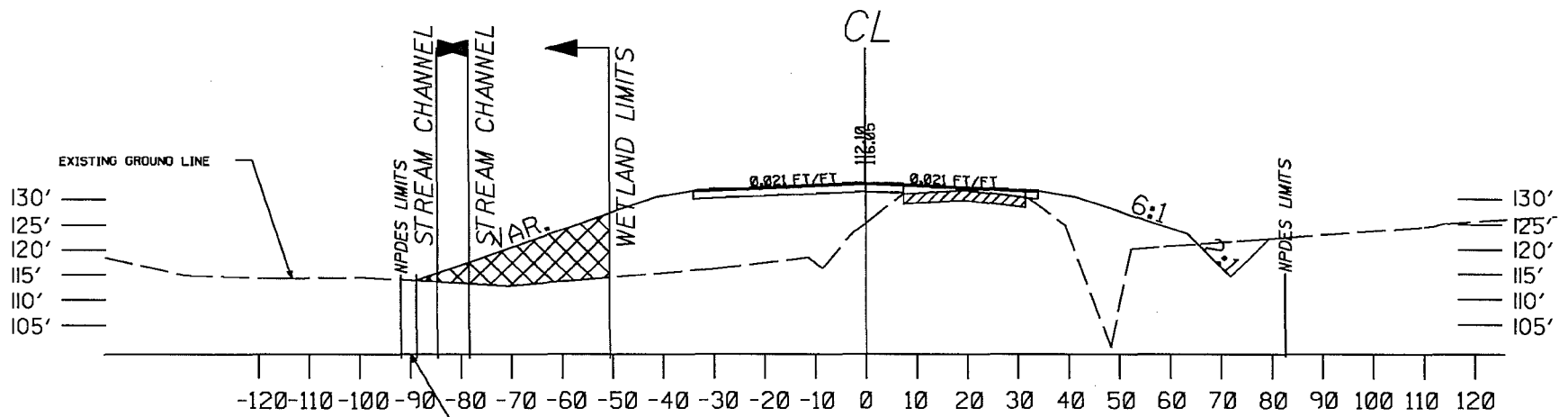


387+71.55
4 - 4



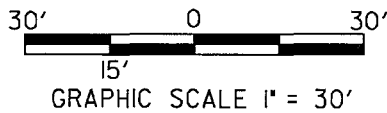
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-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 28 OF 102



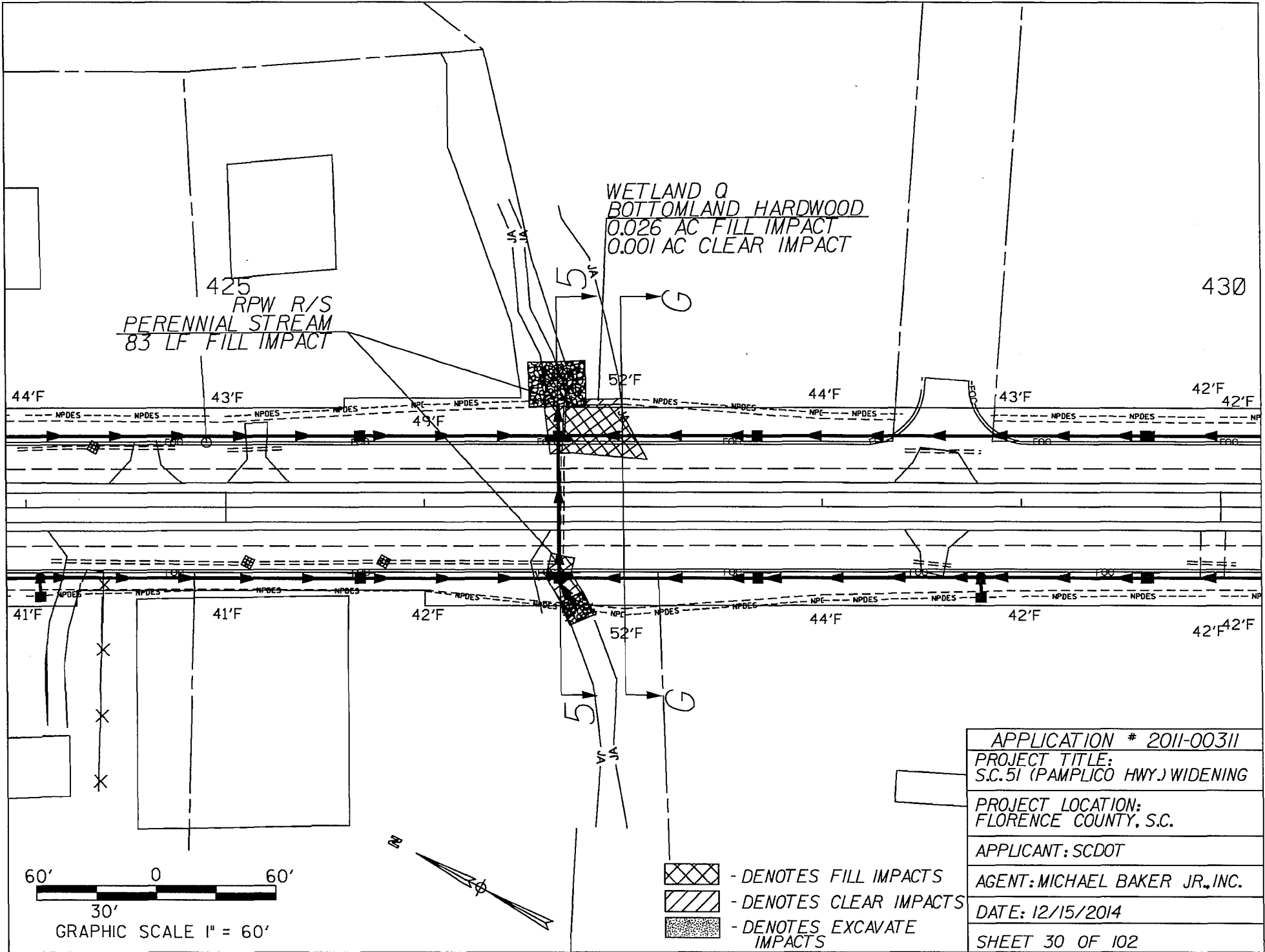
388 + 00.00
F - F

CLEARING IMPACT

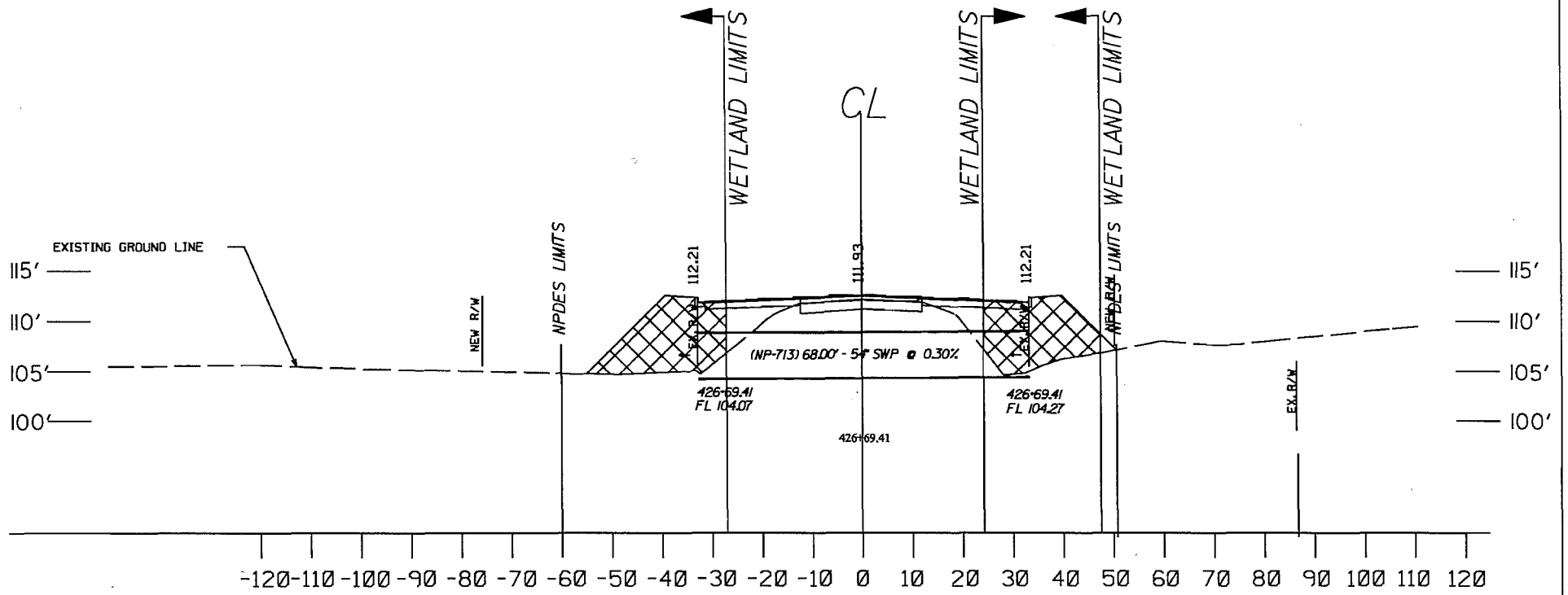


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

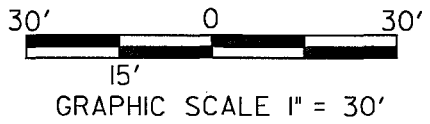
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 29 OF 102






APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 30 OF 102

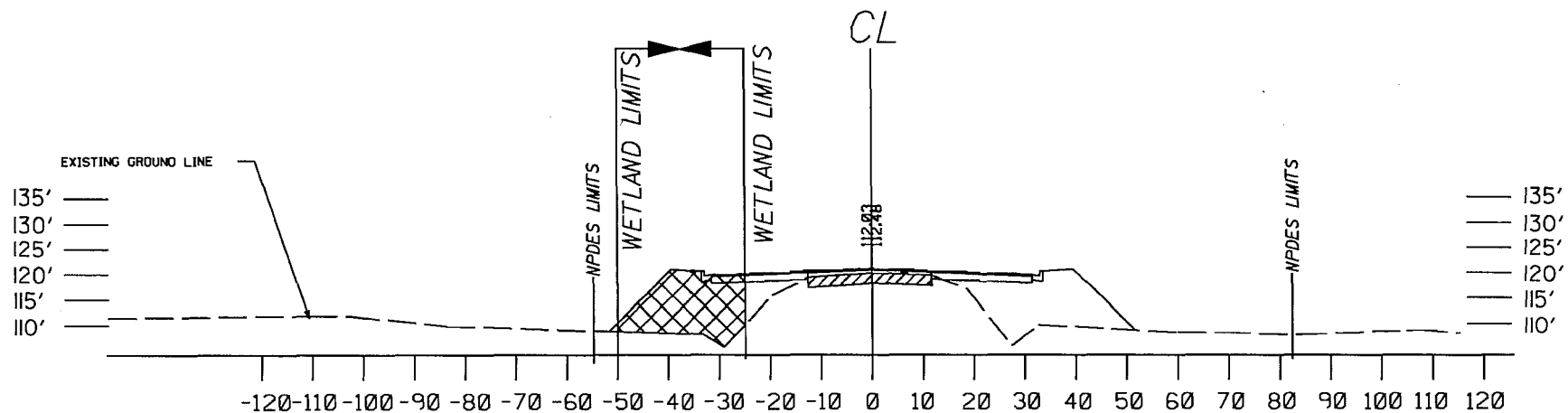


426+69.41
5 - 5

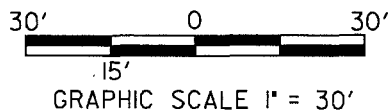





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
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APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 31 OF 102



427 + 00.00
G - G



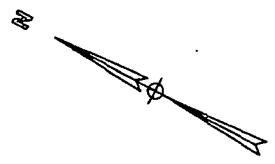
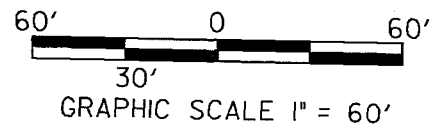
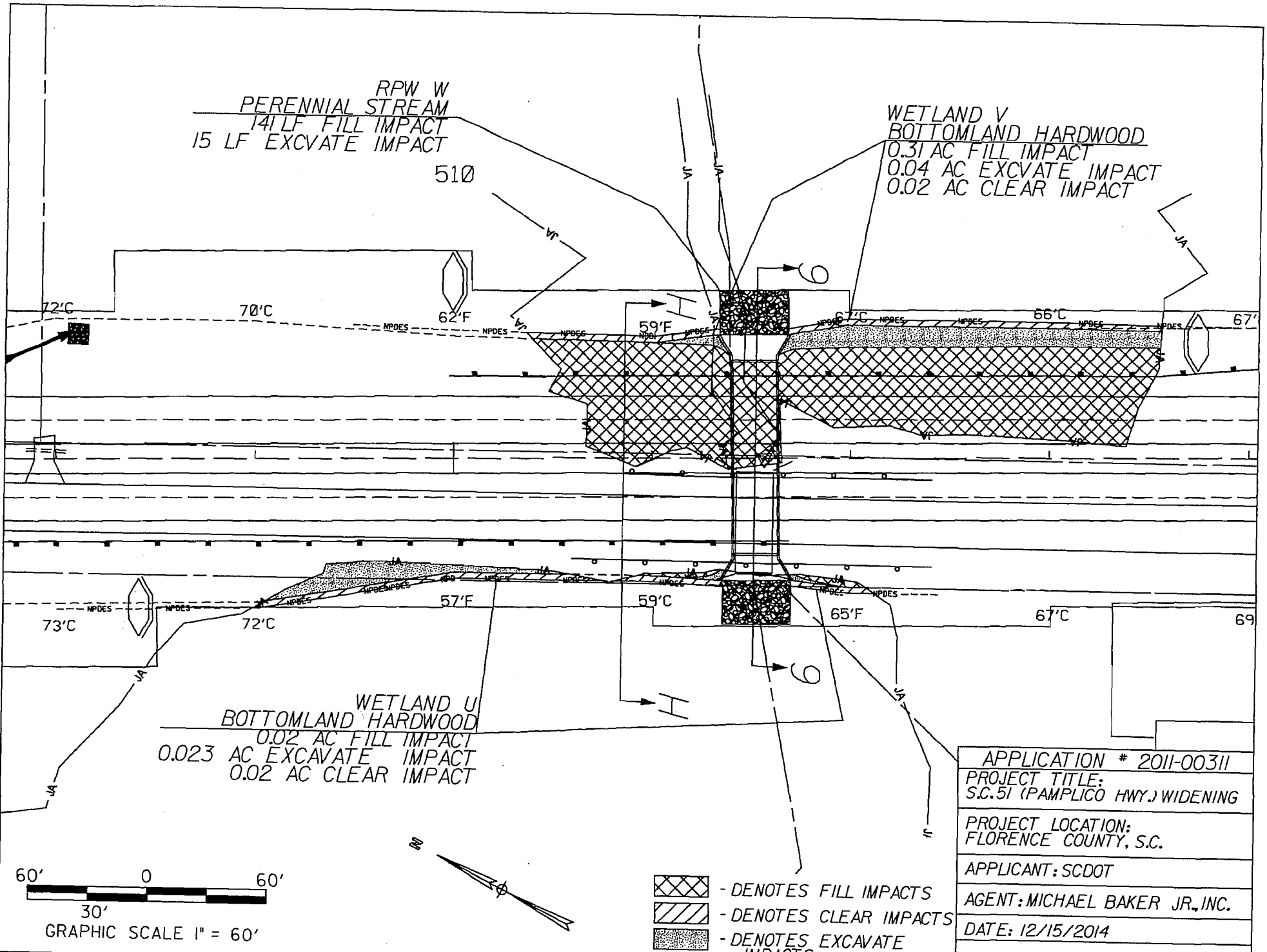
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
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APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 32 OF 102

RPW W
PERENNIAL STREAM
14 LF FILL IMPACT
15 LF EXCVATE IMPACT

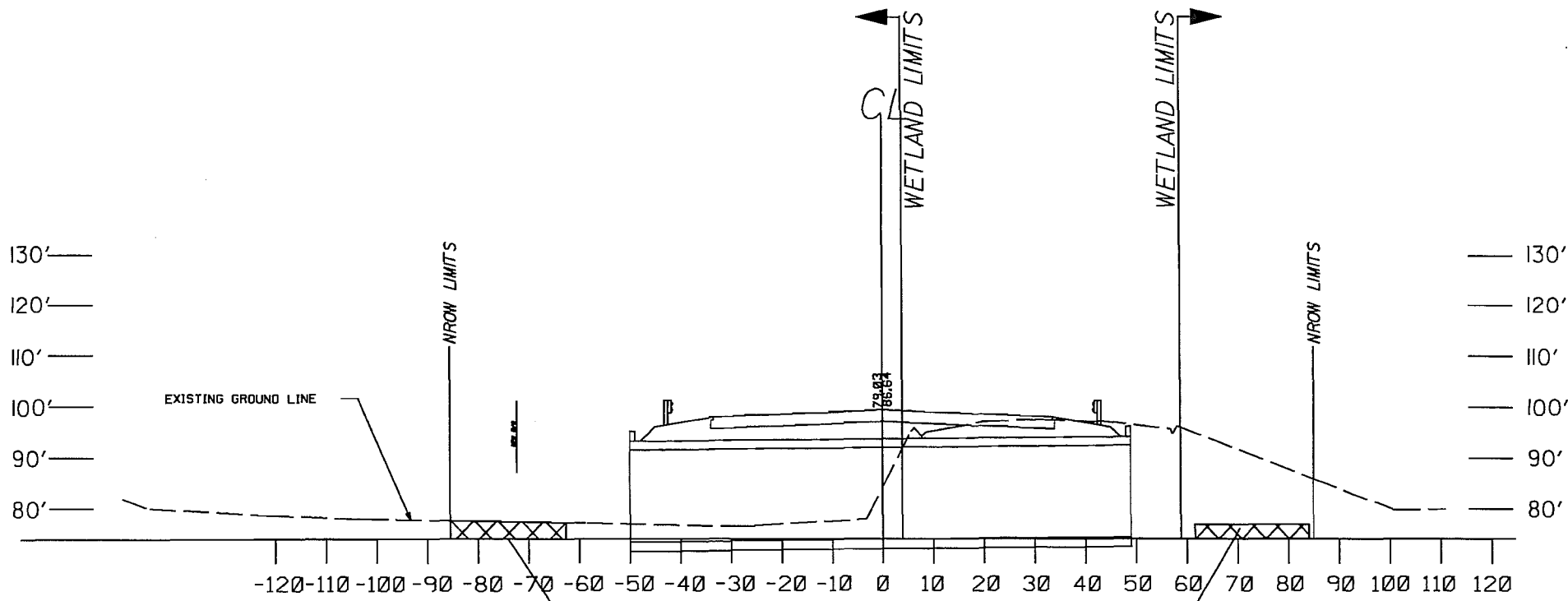
WETLAND V
BOTTOMLAND HARDWOOD
0.31 AC FILL IMPACT
0.04 AC EXCVATE IMPACT
0.02 AC CLEAR IMPACT

WETLAND U
BOTTOMLAND HARDWOOD
0.02 AC FILL IMPACT
0.023 AC EXCAVATE IMPACT
0.02 AC CLEAR IMPACT

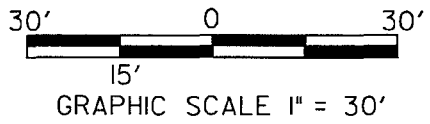





- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 33 OF 102

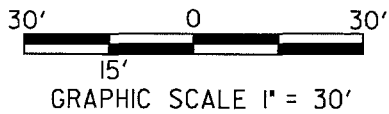
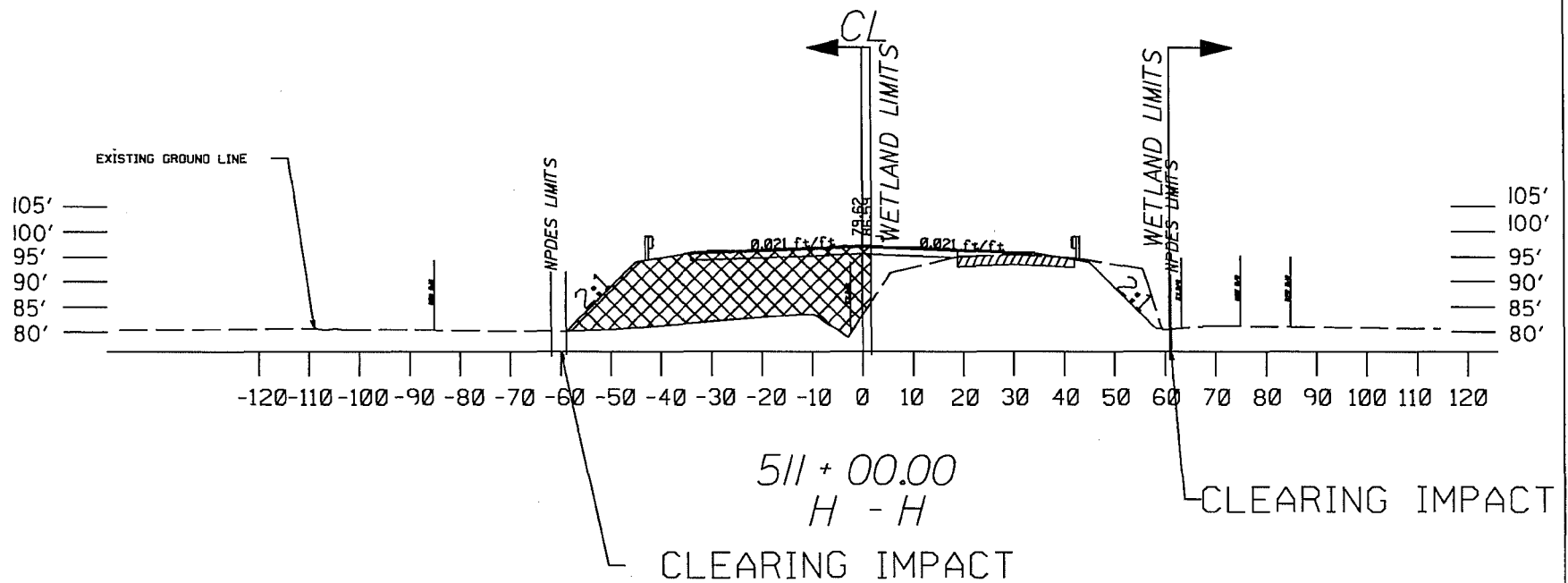





511 + 52.00
6 - 6
RIPRAP PLACEMENT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 34 OF 102



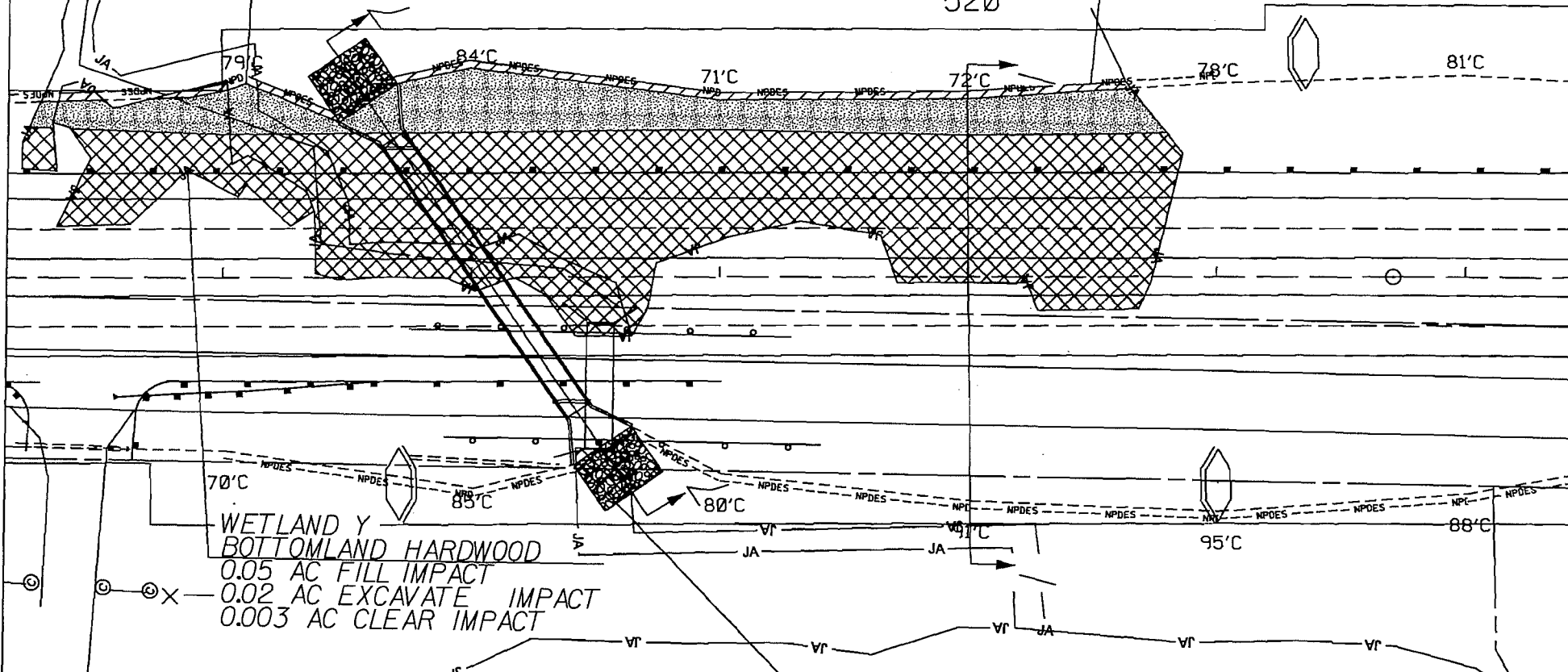
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 35 OF 102

RPW X
PERENNIAL STREAM
248 LF FILL IMPACT
33.5 LF EXCVATE IMPACT

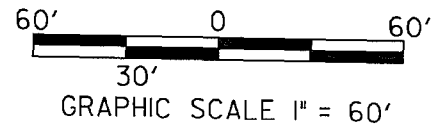
WETLAND Z
BOTTOMLAND HARDWOOD
0.42 AC FILL IMPACT
0.12 AC EXCVATE IMPACT
0.025 AC CLEAR IMPACT




520



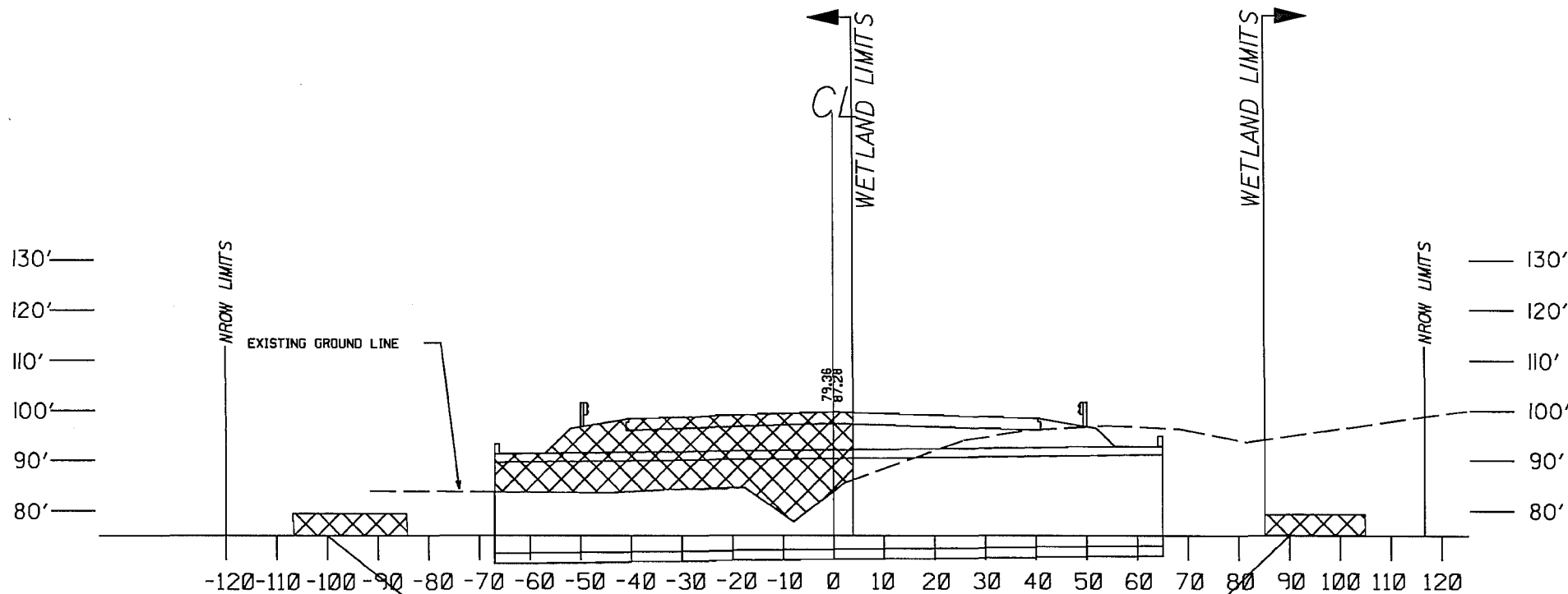
WETLAND Y
BOTTOMLAND HARDWOOD
0.05 AC FILL IMPACT
0.02 AC EXCAVATE IMPACT
0.003 AC CLEAR IMPACT

RPW T
PERENNIAL STREAM
25 LF FILL IMPACT



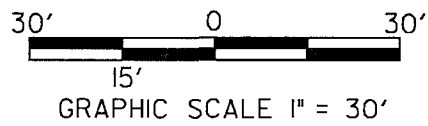
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 36 OF 102



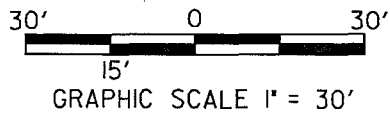
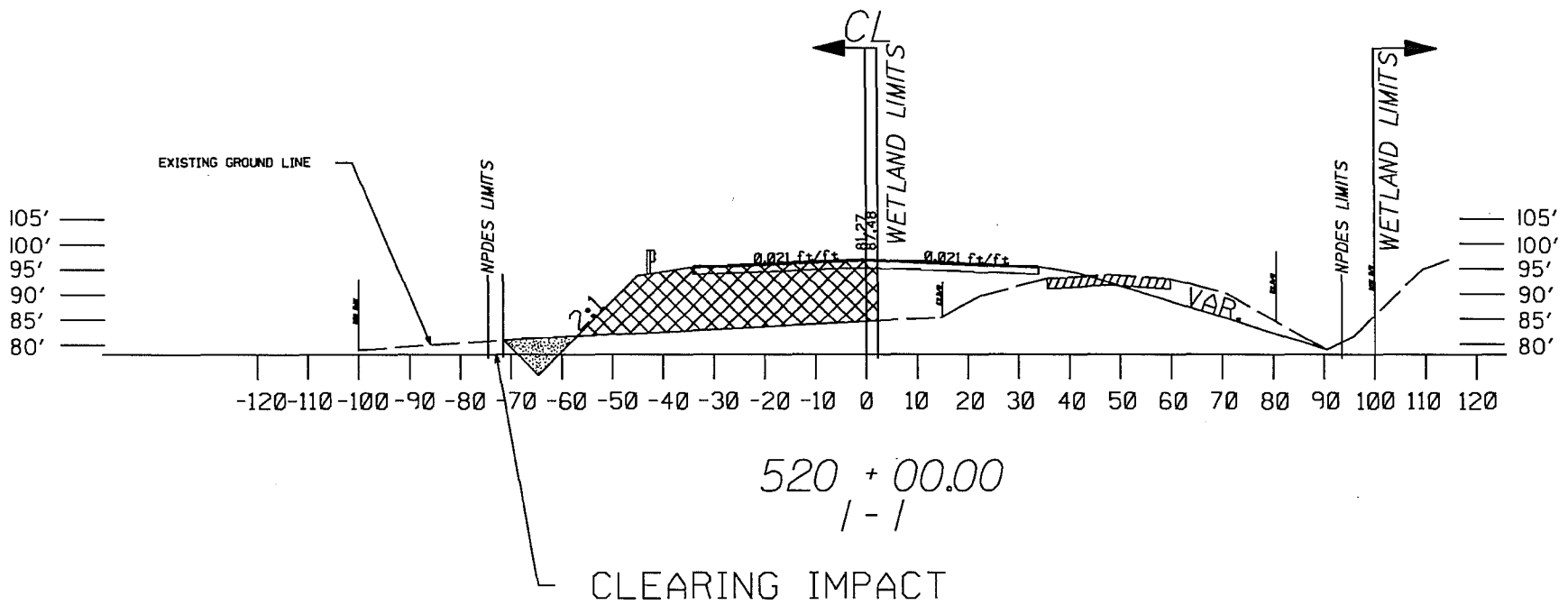
518 + 06.00
7 - 7




RIPRAP PLACEMENT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 37 OF 102






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 38 OF 102

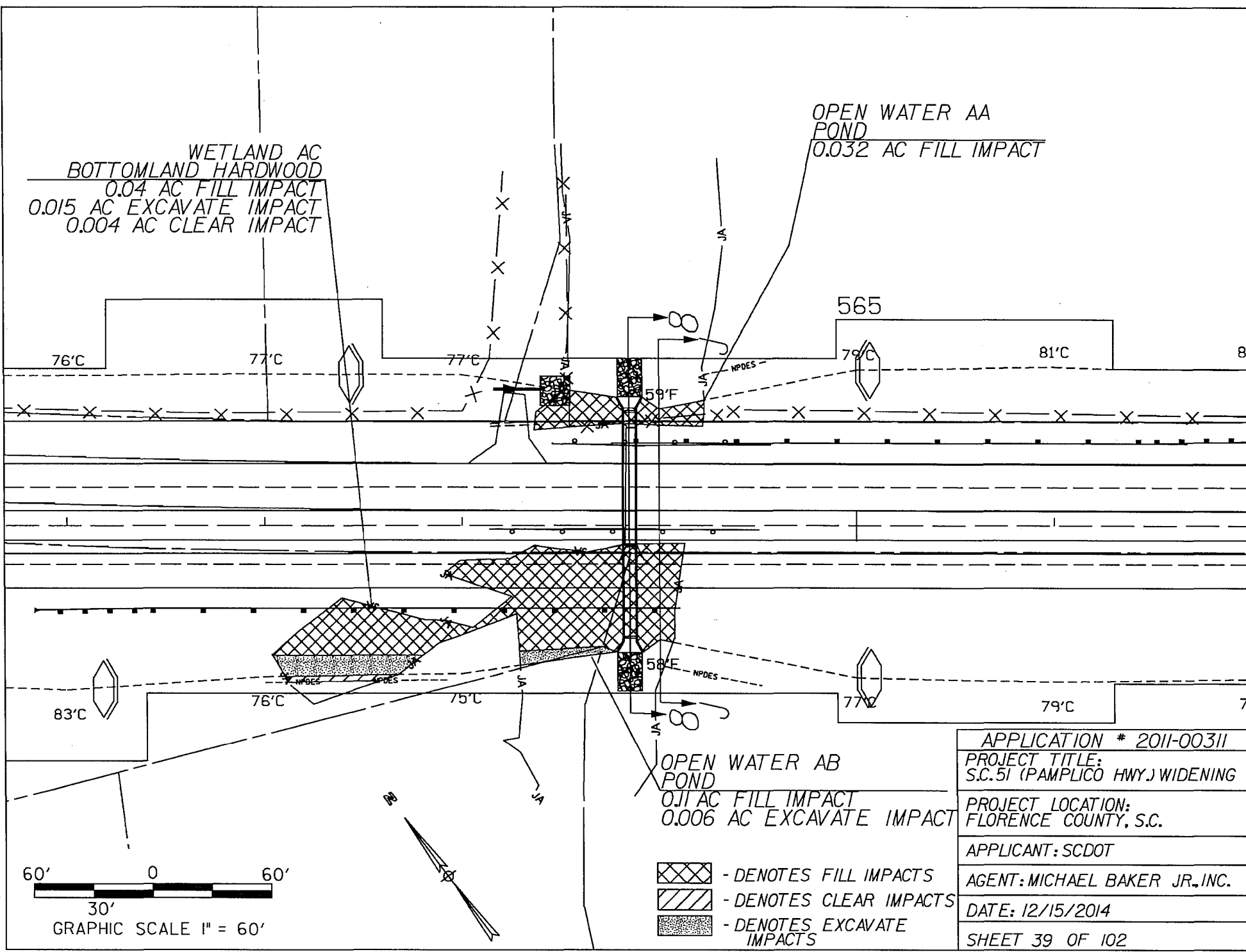
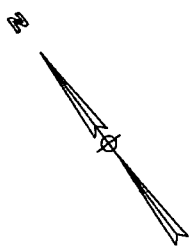
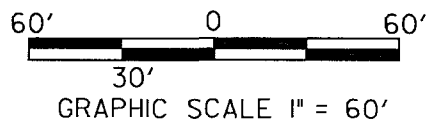
WETLAND AC
 BOTTOMLAND HARDWOOD
 0.04 AC FILL IMPACT
 0.015 AC EXCAVATE IMPACT
 0.004 AC CLEAR IMPACT

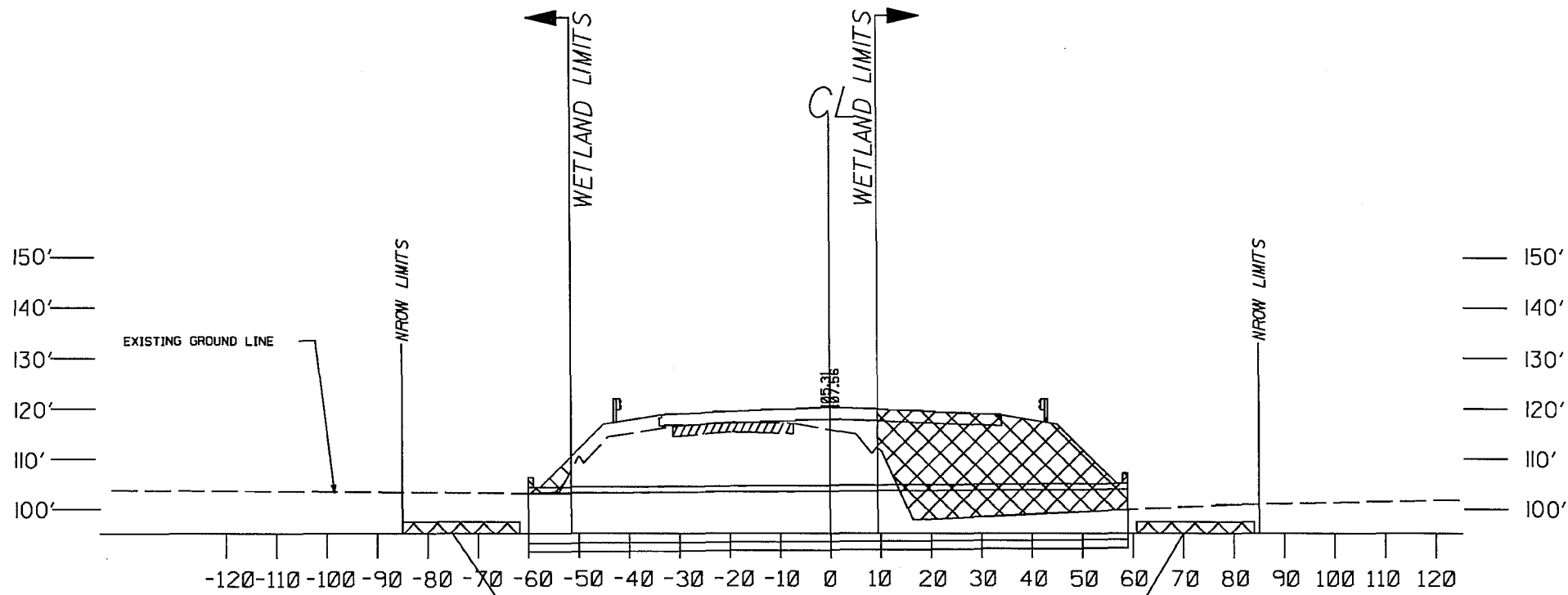
OPEN WATER AA
 POND
 0.032 AC FILL IMPACT

OPEN WATER AB
 POND
 0.01 AC FILL IMPACT
 0.006 AC EXCAVATE IMPACT

-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

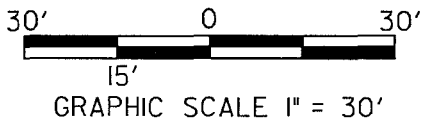
APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 39 OF 102








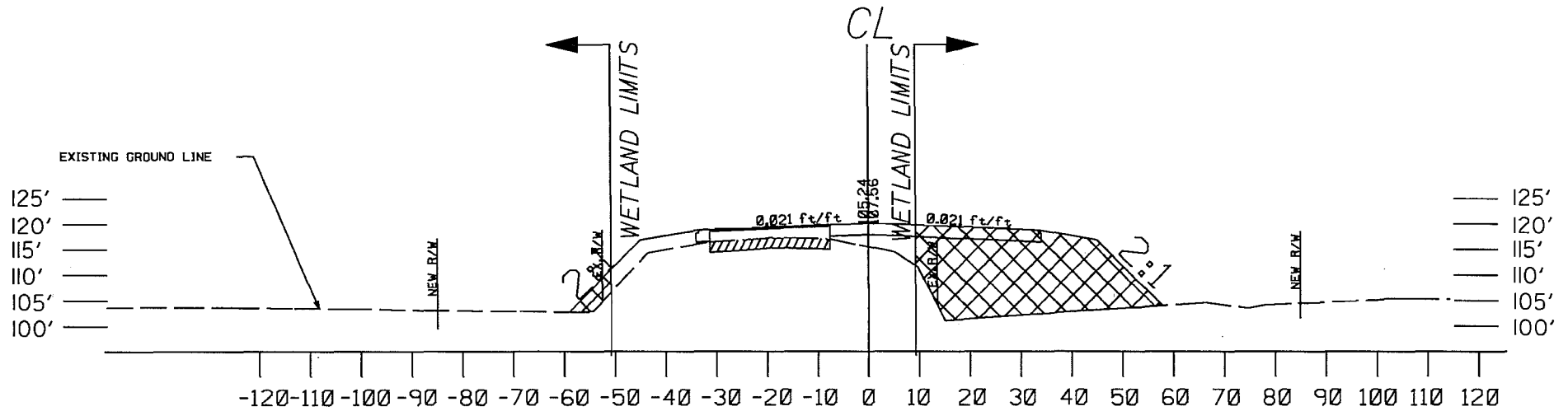
563 + 84.79
8 - 8

RIPRAP PLACEMENT

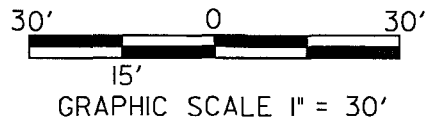


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 40 OF 102



564 + 00.00
J - J



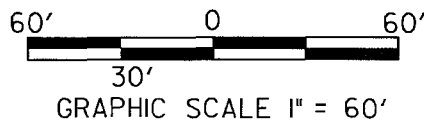
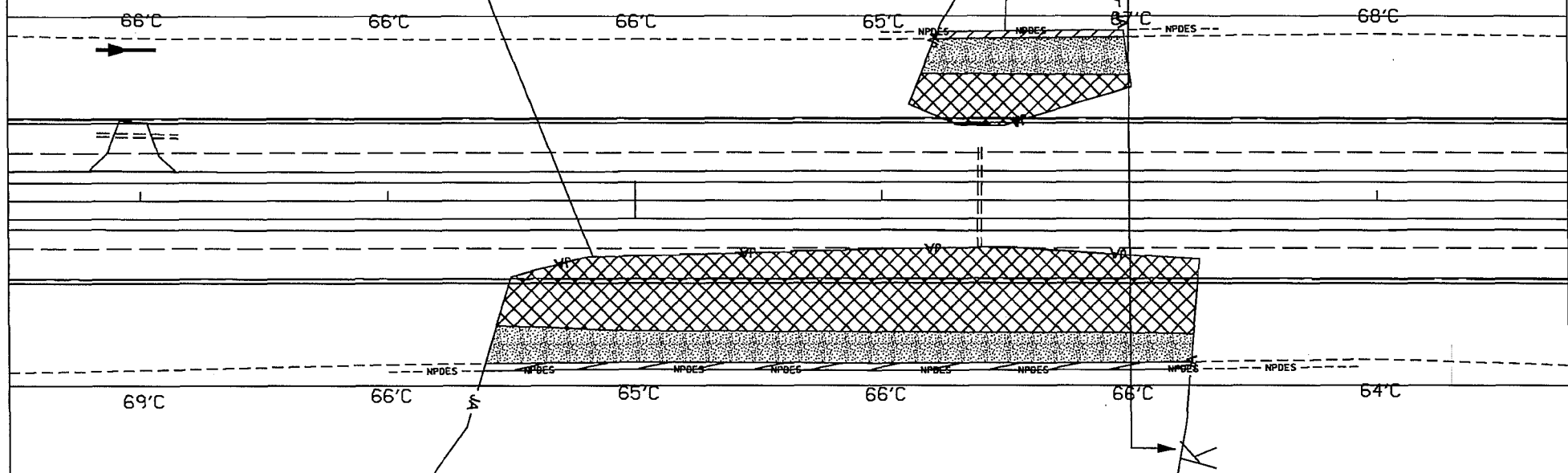
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 41 OF 102

WETLAND CA
 PINE WET FLATWOOD
 0.20 AC FILL IMPACT
 0.08 AC EXCAVATE IMPACT
 0.02 AC CLEAR IMPACT

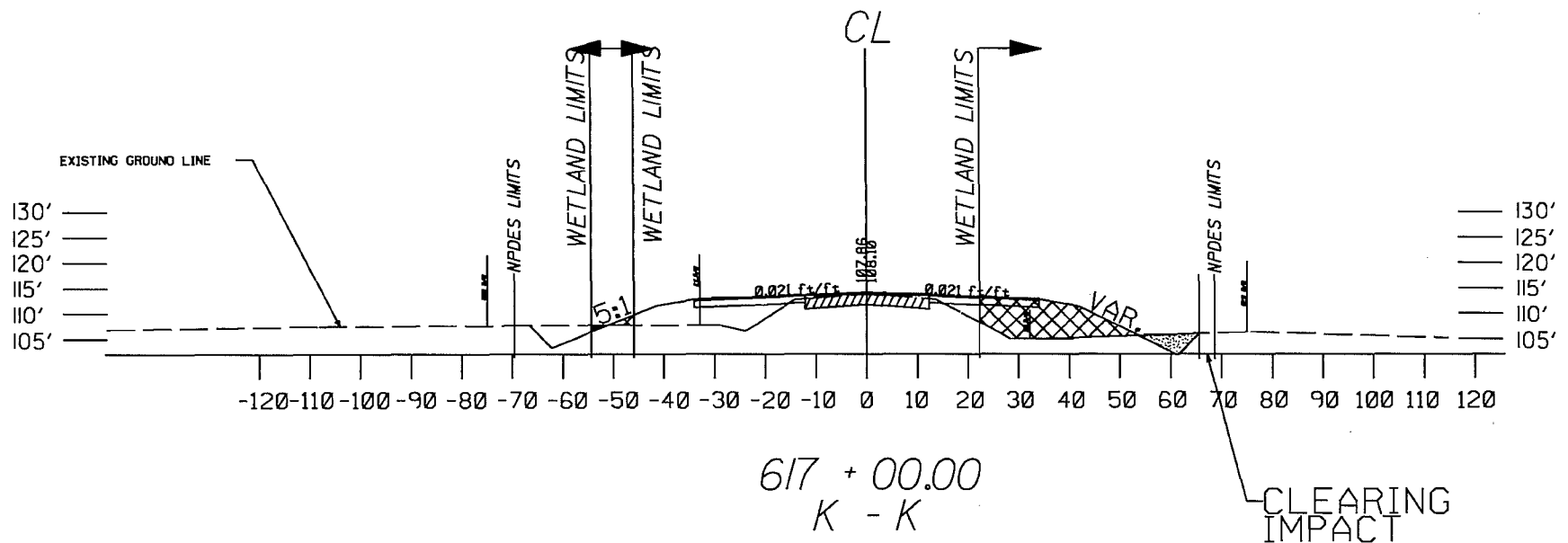
WETLAND CB
 PINE WET FLATWOOD
 0.031 AC FILL IMPACT
 0.03 AC EXCAVATE IMPACT
 0.005 AC CLEAR IMPACT

615

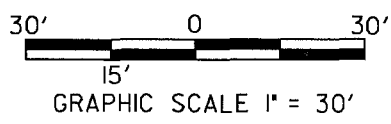


- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 42 OF 102



617 + 00.00
K - K

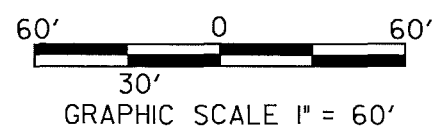
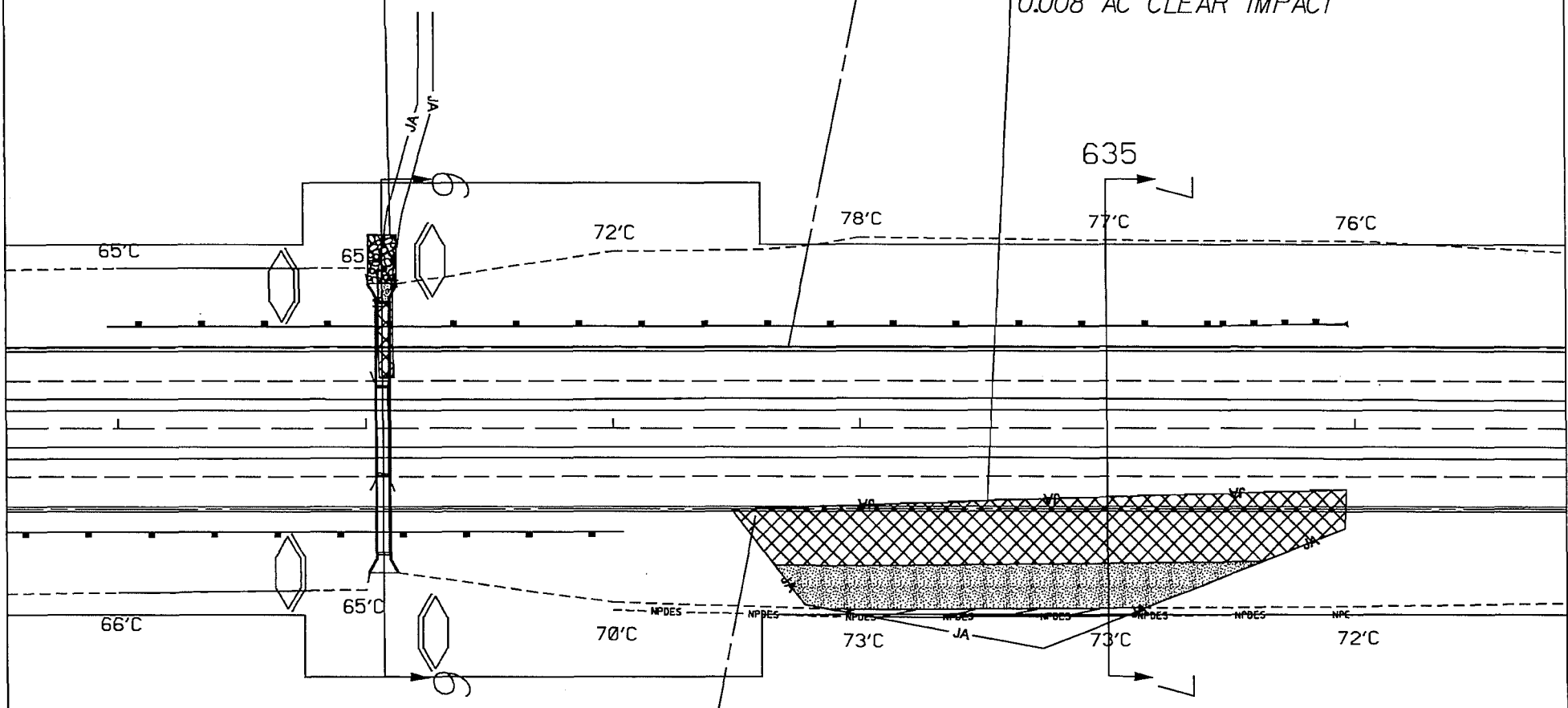





- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 43 OF 102

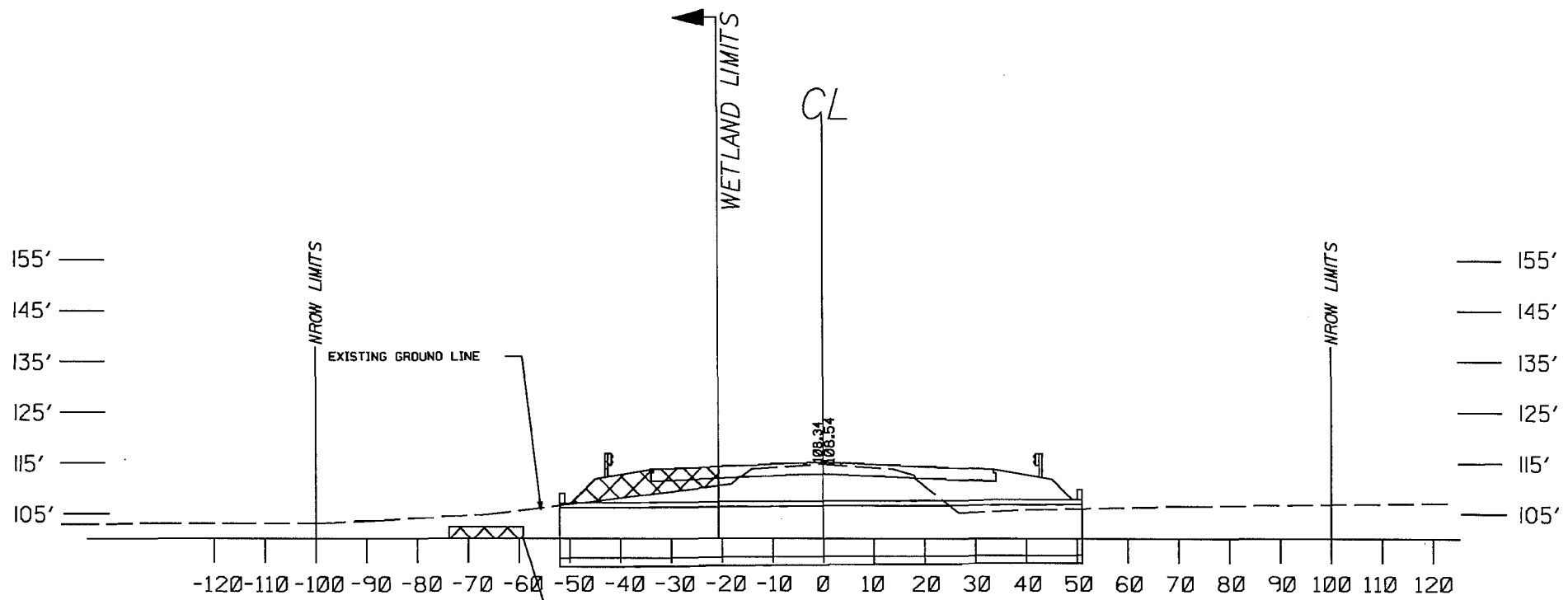
NRPW AD
 EPHEMERAL STREAM
 50.7 LF FILL IMPACT
 7.6 LF EXCAVATE IMPACT

WETLAND CC
 PINE WET FLATWOOD
 0.14 AC FILL IMPACT
 0.07 AC EXCAVATE IMPACT
 0.008 AC CLEAR IMPACT



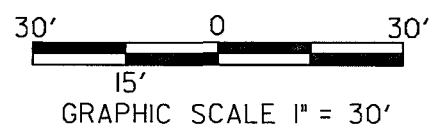
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 44 OF 102



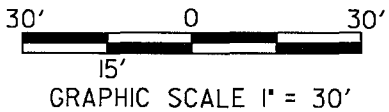
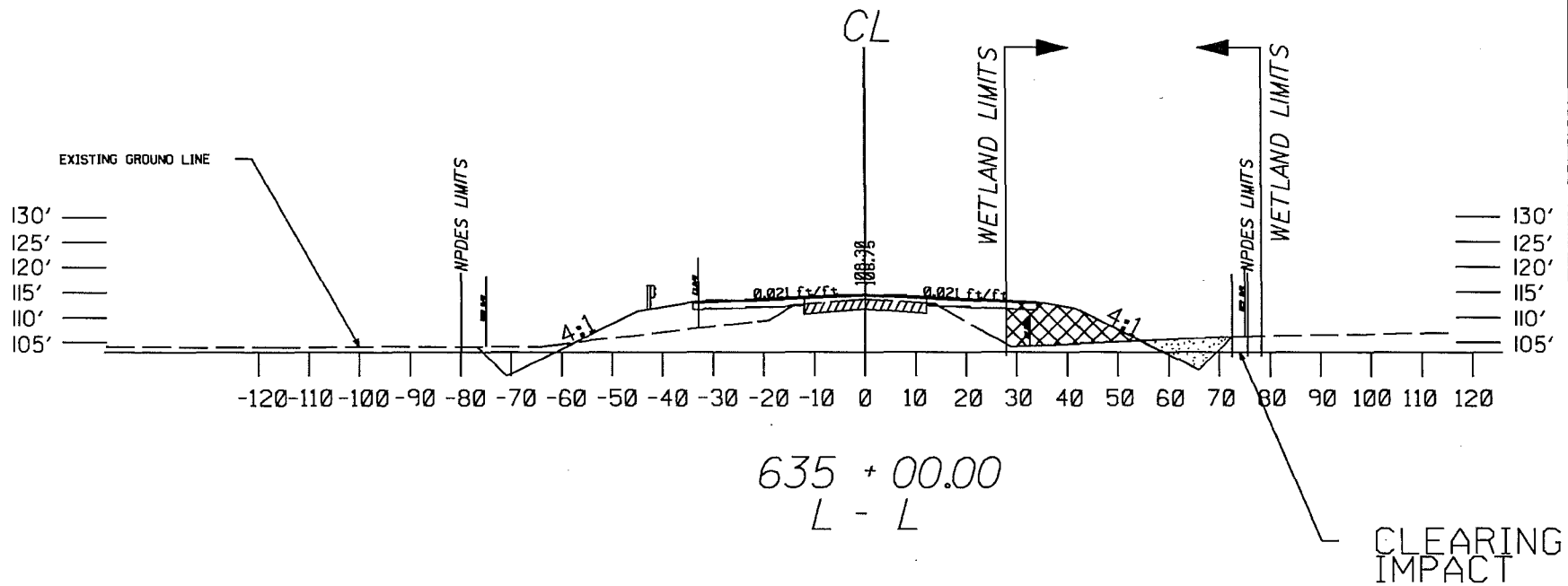
632 + 07.00
9 - 9

RIPRAP PLACEMENT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

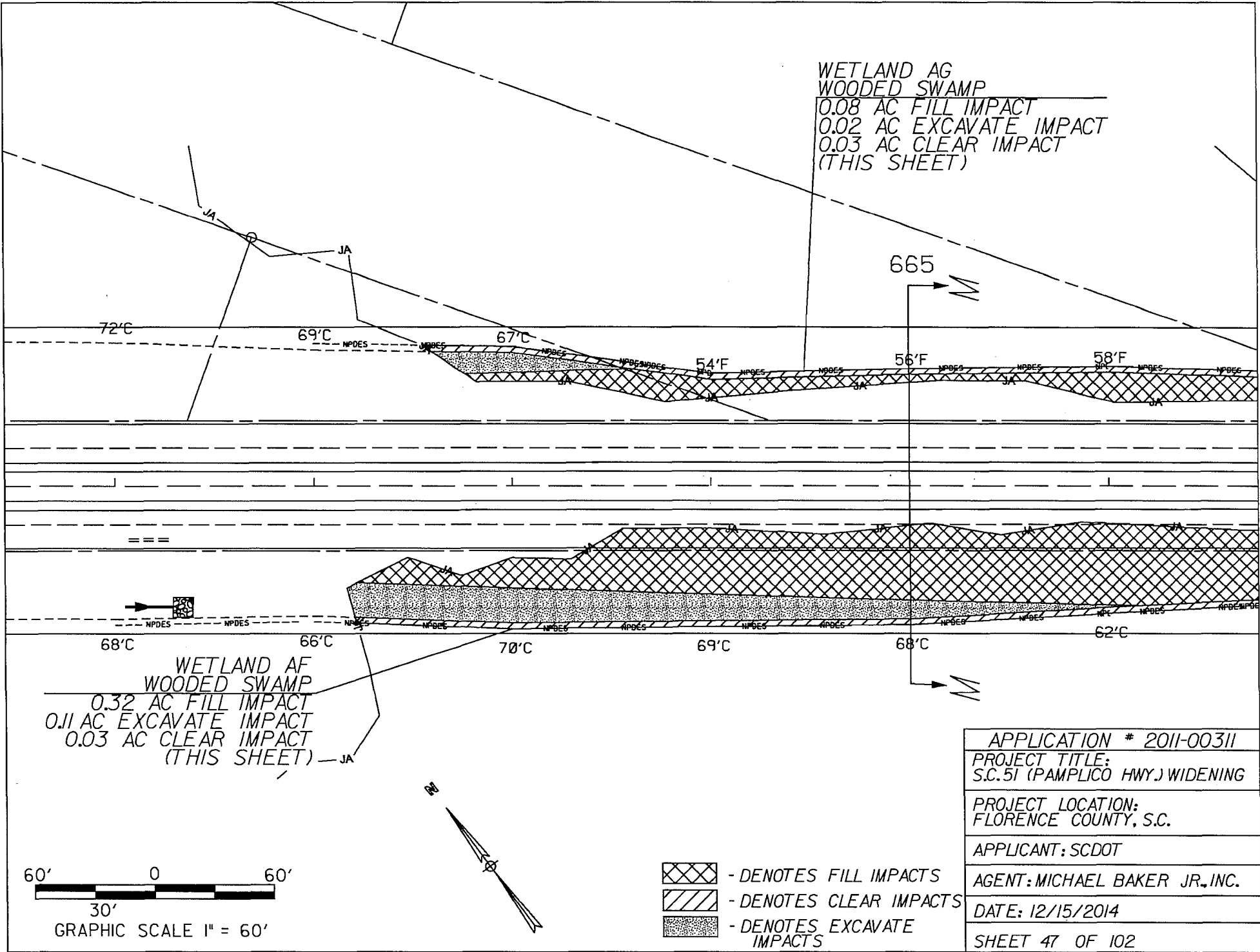
APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 45 OF 102



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

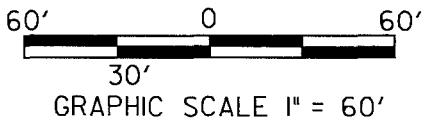
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 46 OF 102




WETLAND AG
 WOODED SWAMP
 0.08 AC FILL IMPACT
 0.02 AC EXCAVATE IMPACT
 0.03 AC CLEAR IMPACT
 (THIS SHEET)

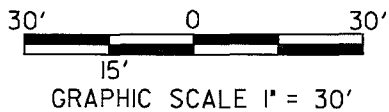
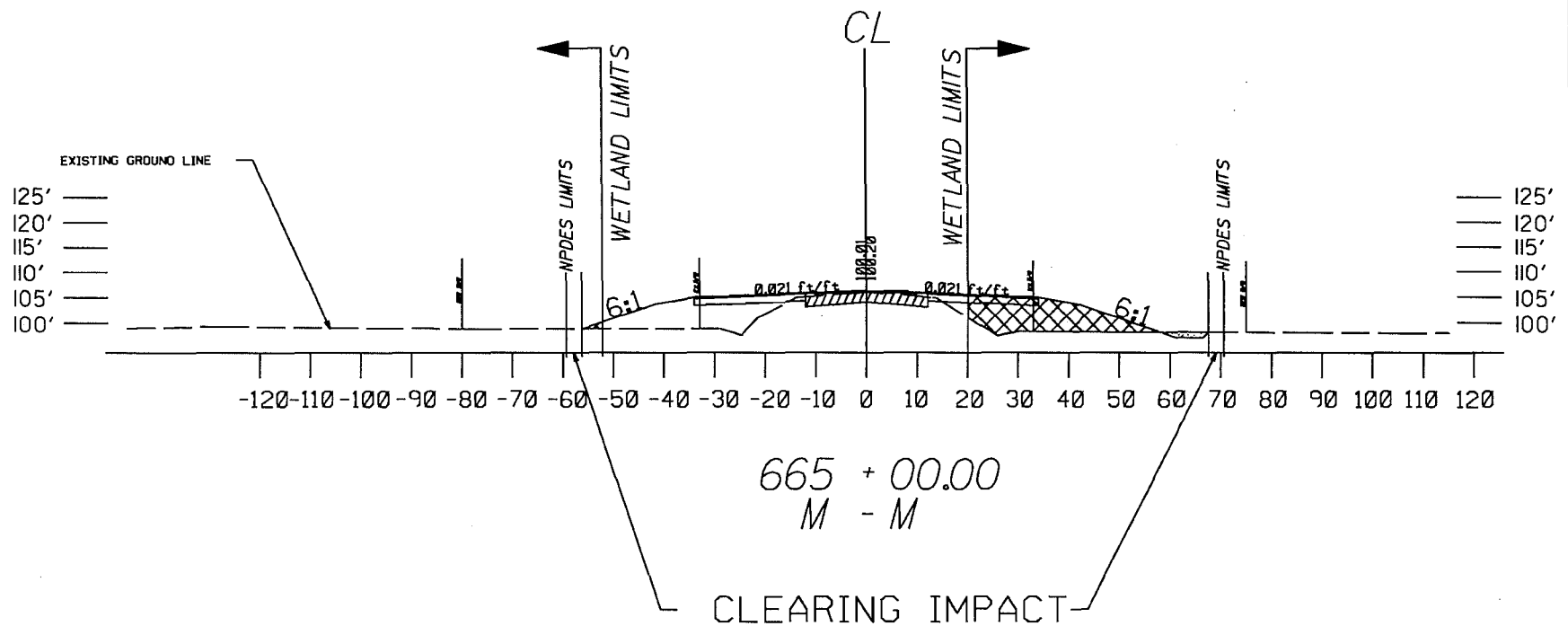





WETLAND AF
 WOODED SWAMP
 0.32 AC FILL IMPACT
 0.11 AC EXCAVATE IMPACT
 0.03 AC CLEAR IMPACT
 (THIS SHEET)

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 47 OF 102



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

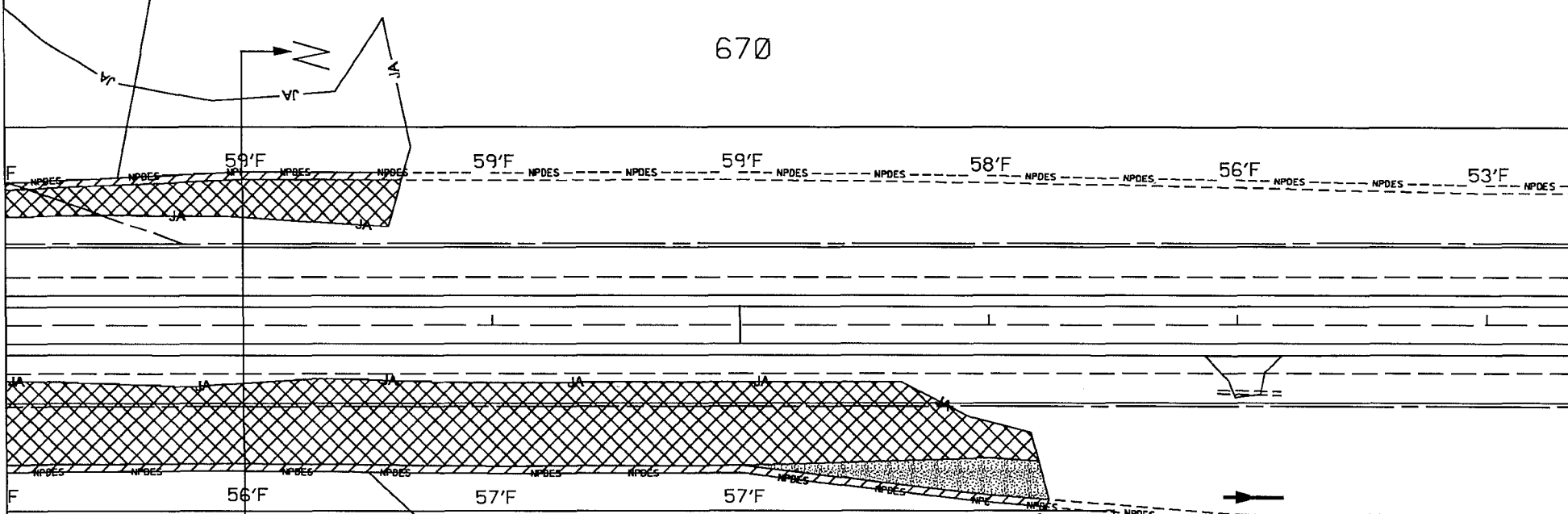


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

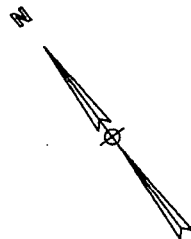
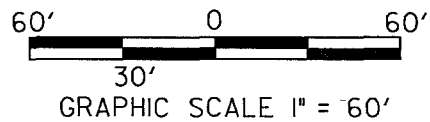
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PROJECT TITLE: S.C. 51 (PAMPLICO HWY) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 48 OF 102

WETLAND AG
 WOODED SWAMP
 0.06 AC FILL IMPACT
 0.01 AC CLEAR IMPACT
 (THIS SHEET)

670

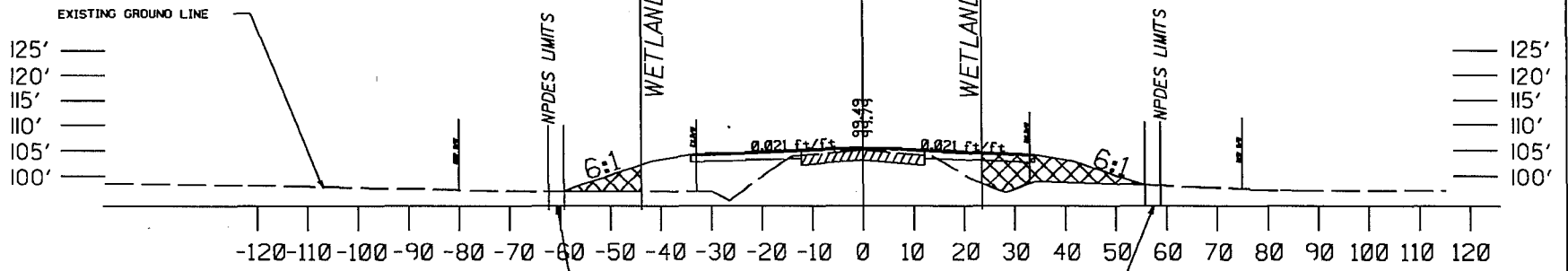


WETLAND AF
 WOODED SWAMP
 0.31 AC FILL IMPACT
 0.025 AC EXCAVATE IMPACT
 0.03 AC CLEAR IMPACT
 (THIS SHEET)



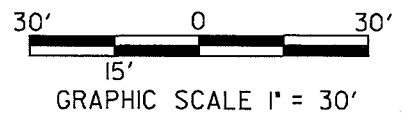
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- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 49 OF 102



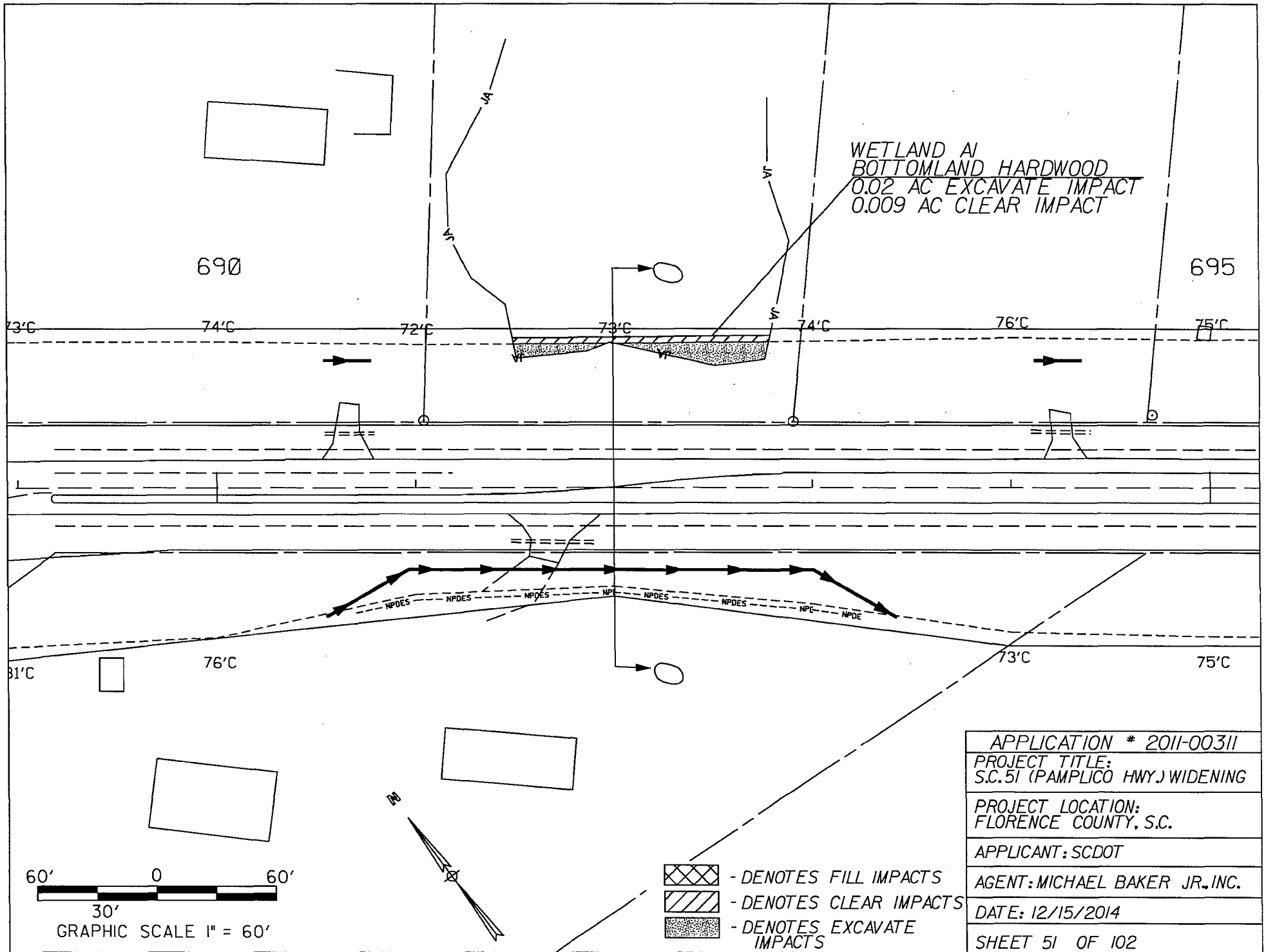
668 + 00.00
N - N

CLEARING IMPACT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 50 OF 102



WETLAND A1
 BOTTOMLAND HARDWOOD
 0.02 AC EXCAVATE IMPACT
 0.009 AC CLEAR IMPACT

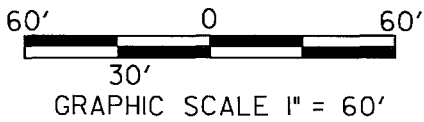
690




695

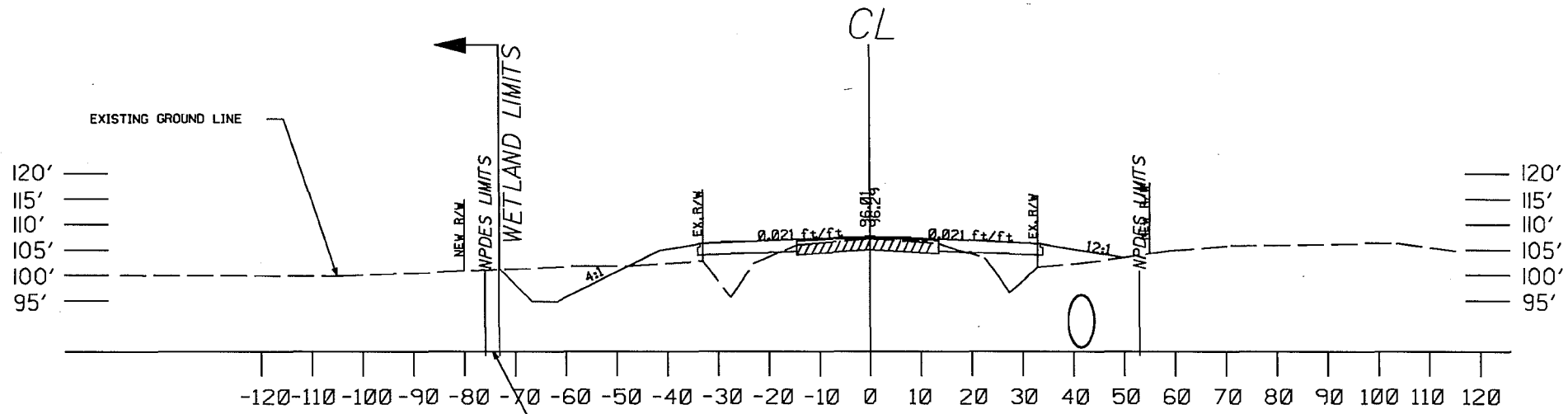
73'C 74'C 72'C 73'C 74'C 76'C 75'C

81'C 76'C 73'C 75'C

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 51 OF 102

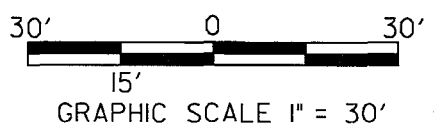


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS



692 + 00.00
0 - 0

CLEARING IMPACT

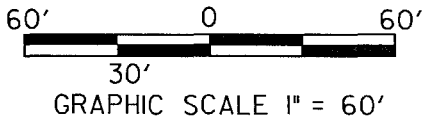
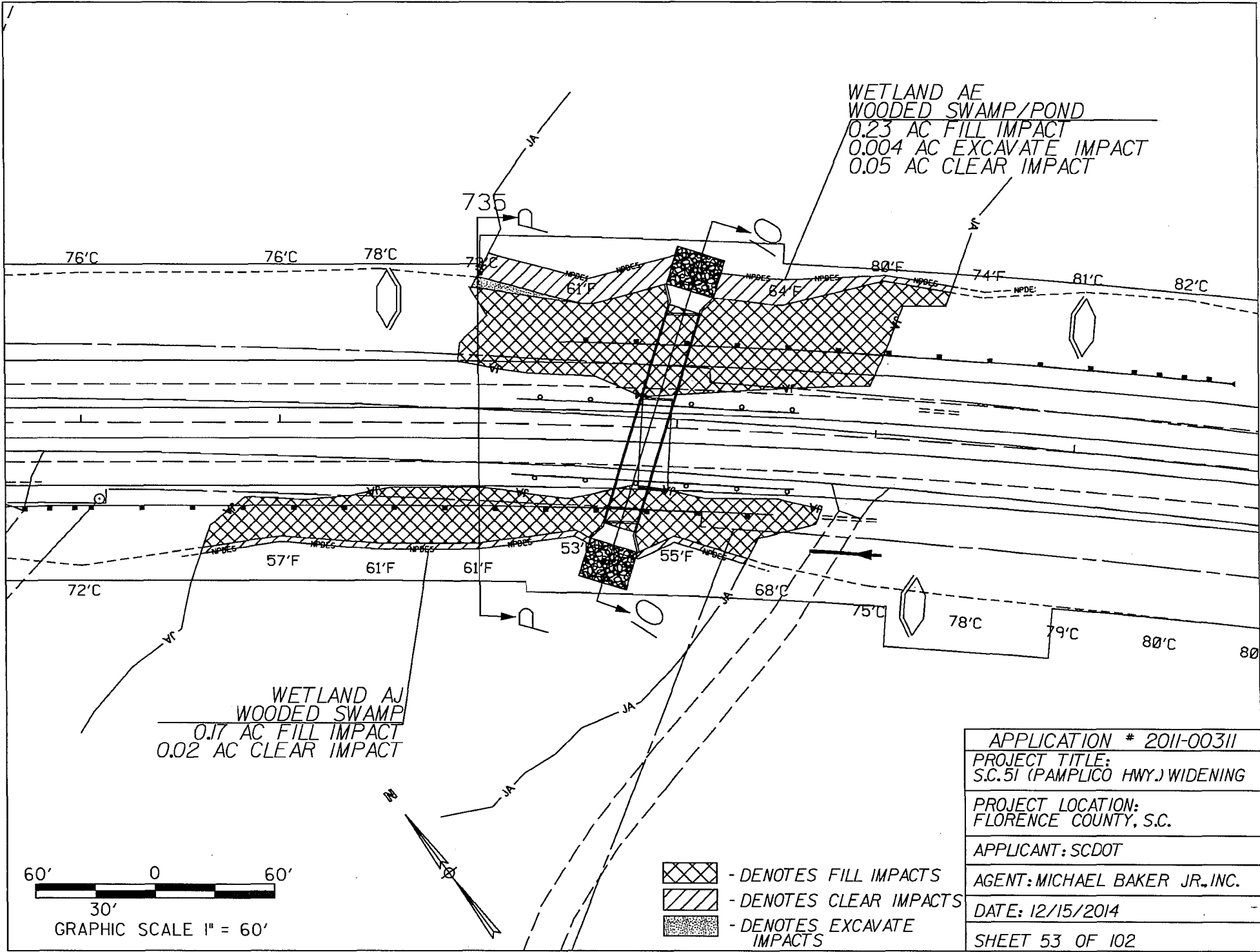


- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 52 OF 102

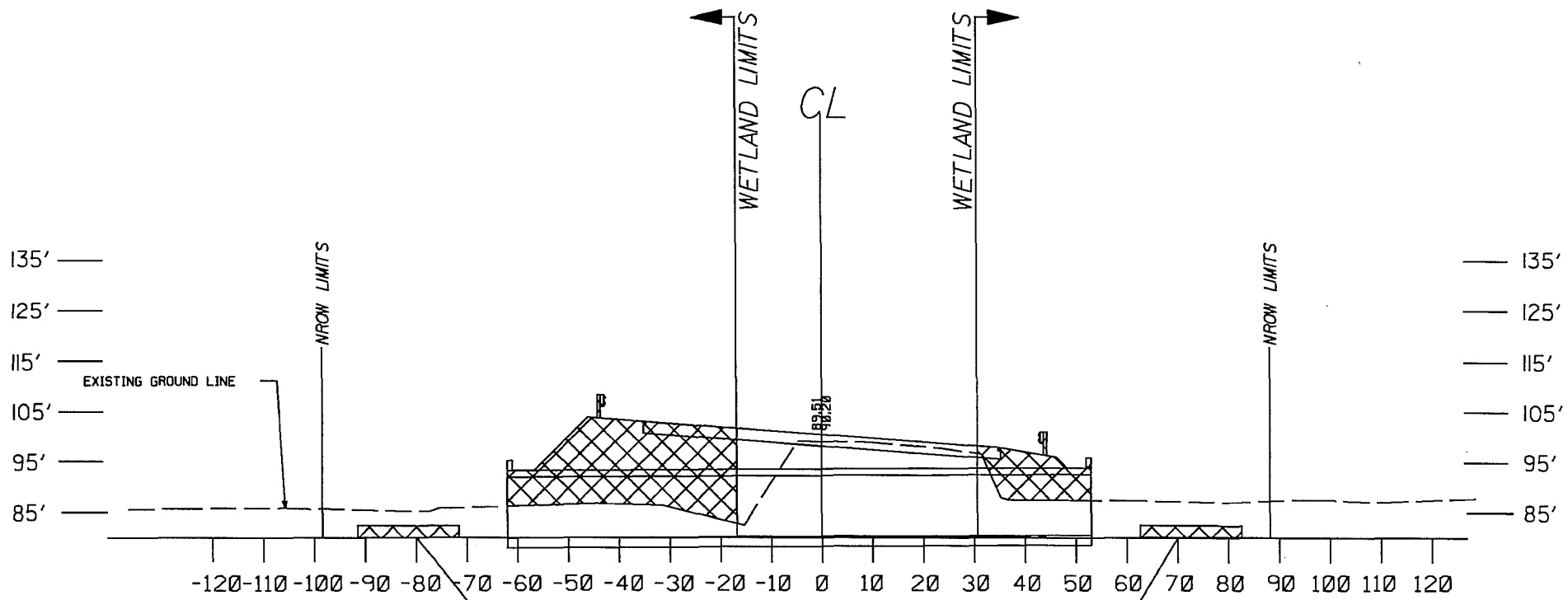
WETLAND AE
 WOODED SWAMP/POND
 0.23 AC FILL IMPACT
 0.004 AC EXCAVATE IMPACT
 0.05 AC CLEAR IMPACT

WETLAND AJ
 WOODED SWAMP
 0.17 AC FILL IMPACT
 0.02 AC CLEAR IMPACT



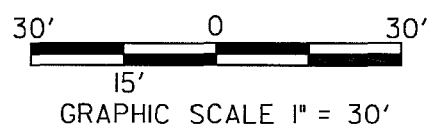
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 53 OF 102



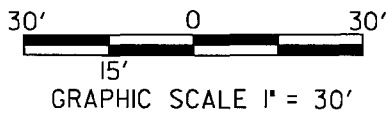
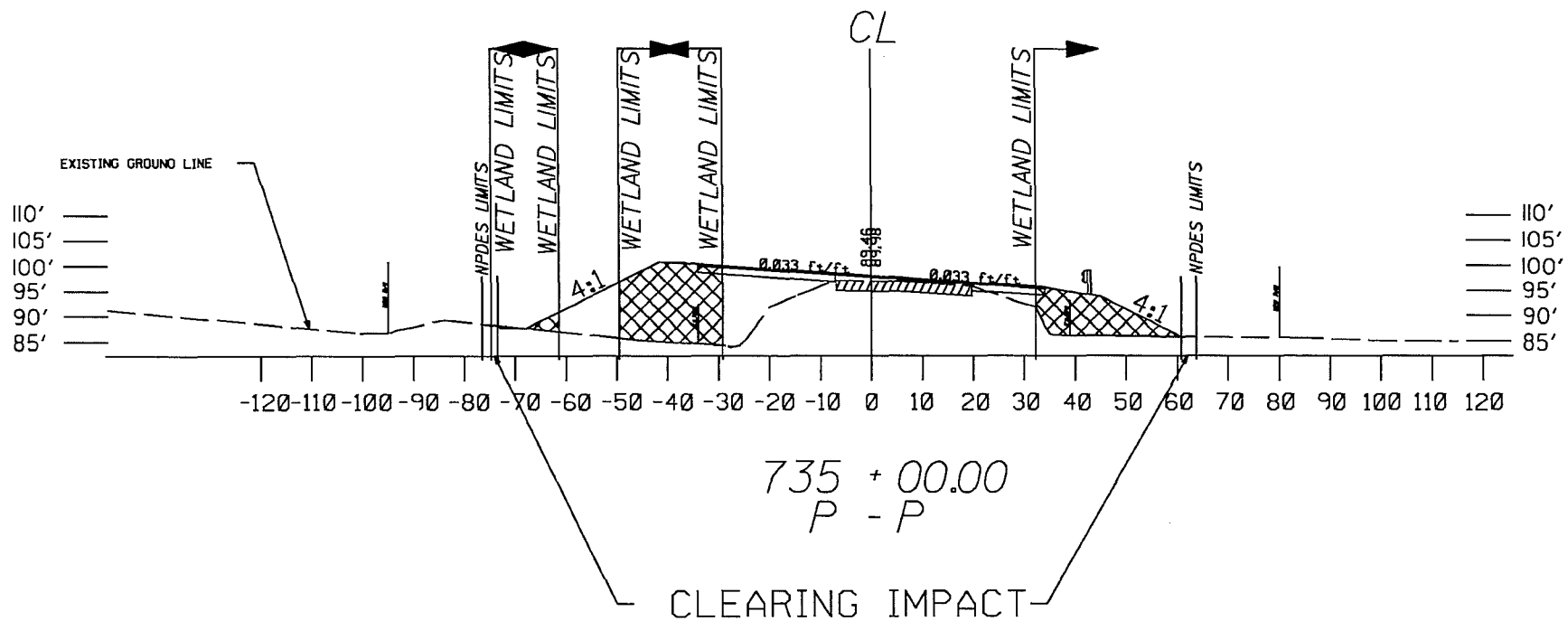
735 + 86.00
10 - 10




RIPRAP PLACEMENT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 54 OF 102

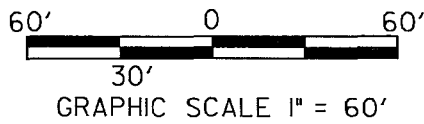
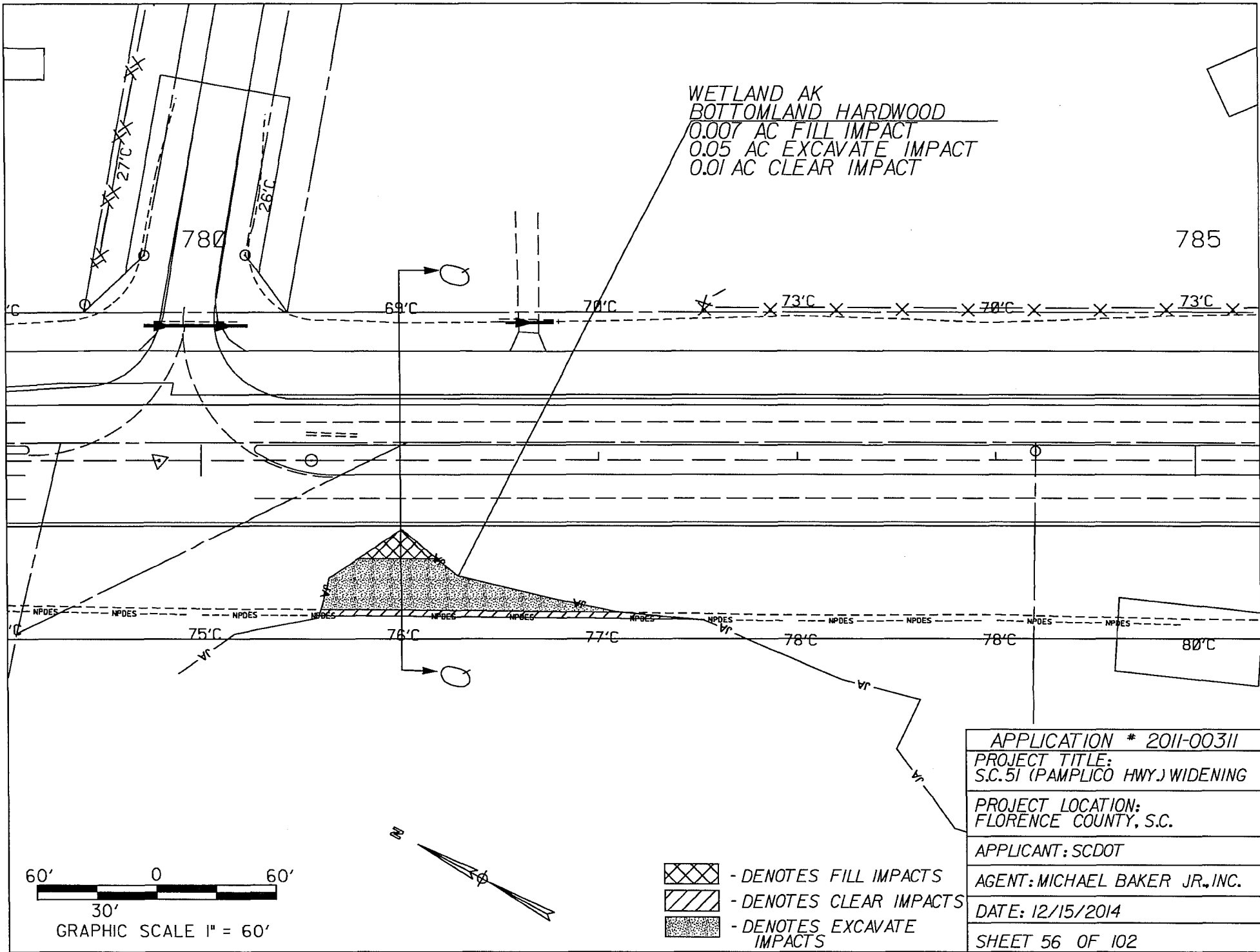





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 55 OF 102

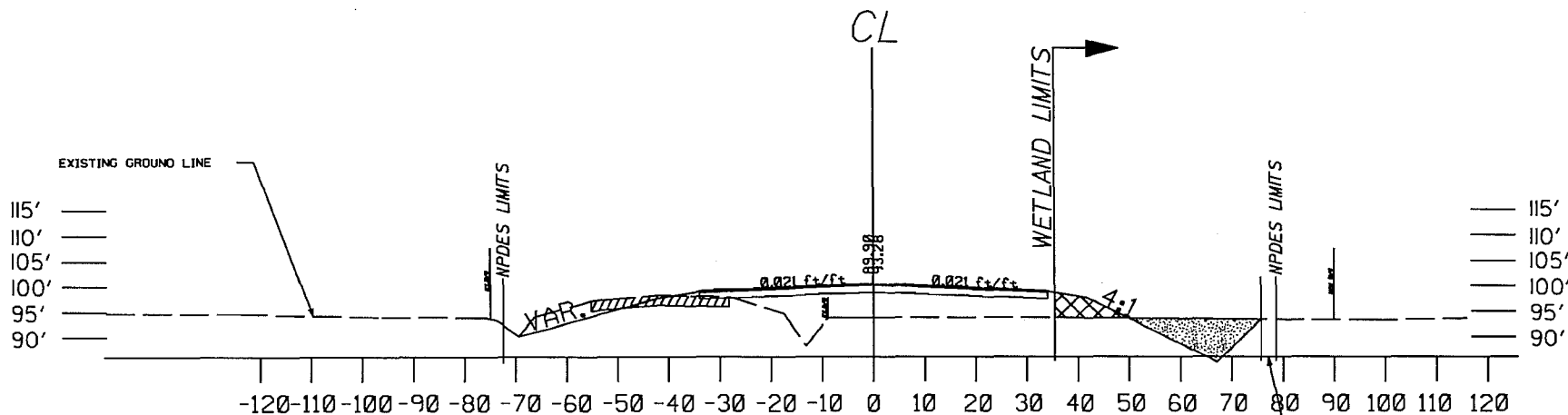
WETLAND AK
 BOTTOMLAND HARDWOOD
 0.007 AC FILL IMPACT
 0.05 AC EXCAVATE IMPACT
 0.01 AC CLEAR IMPACT

785



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 56 OF 102



781 + 00.00
Q - Q

CLEARING
IMPACT



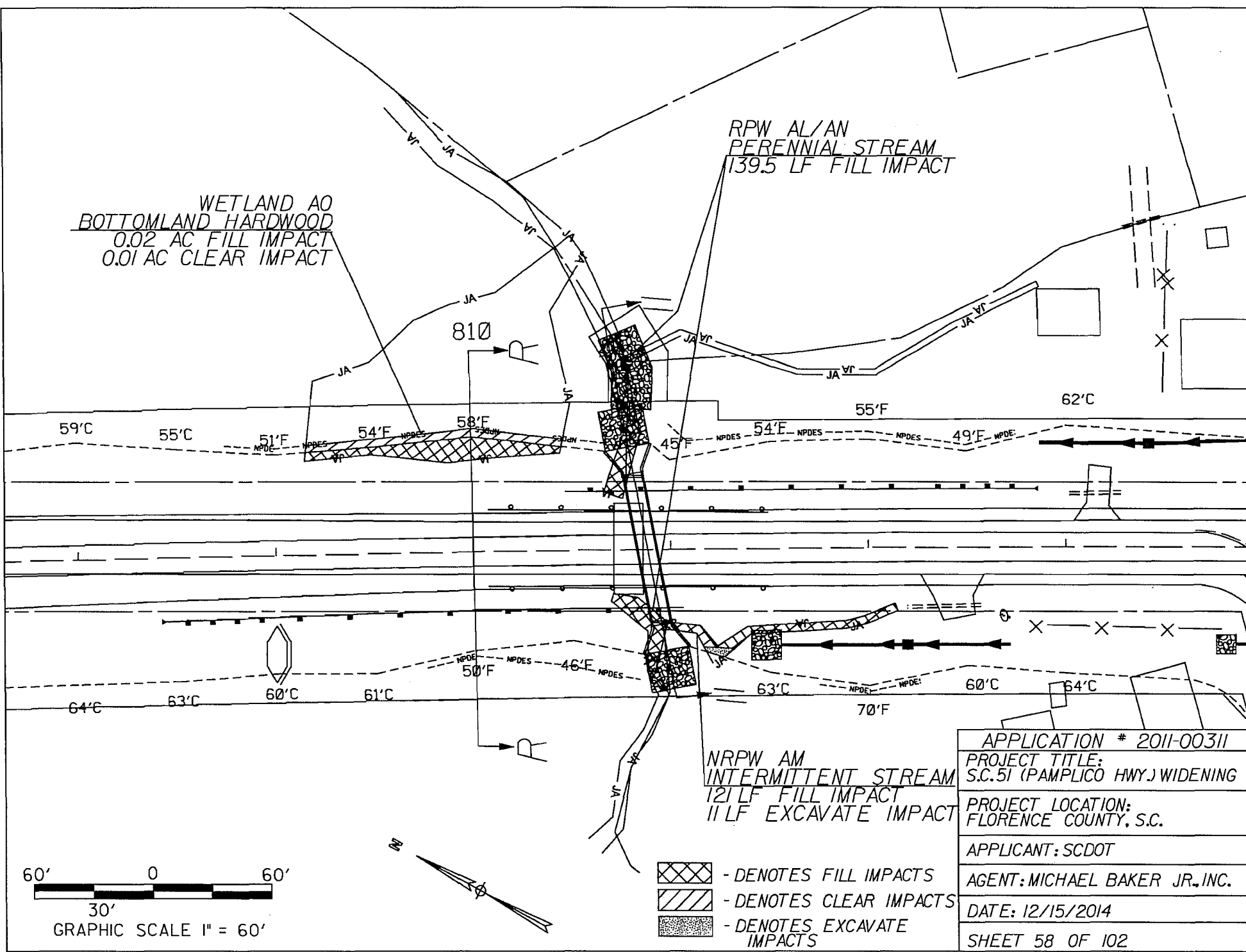
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 57 OF 102

WETLAND A0
 BOTTOMLAND HARDWOOD
 0.02 AC FILL IMPACT
 0.01 AC CLEAR IMPACT

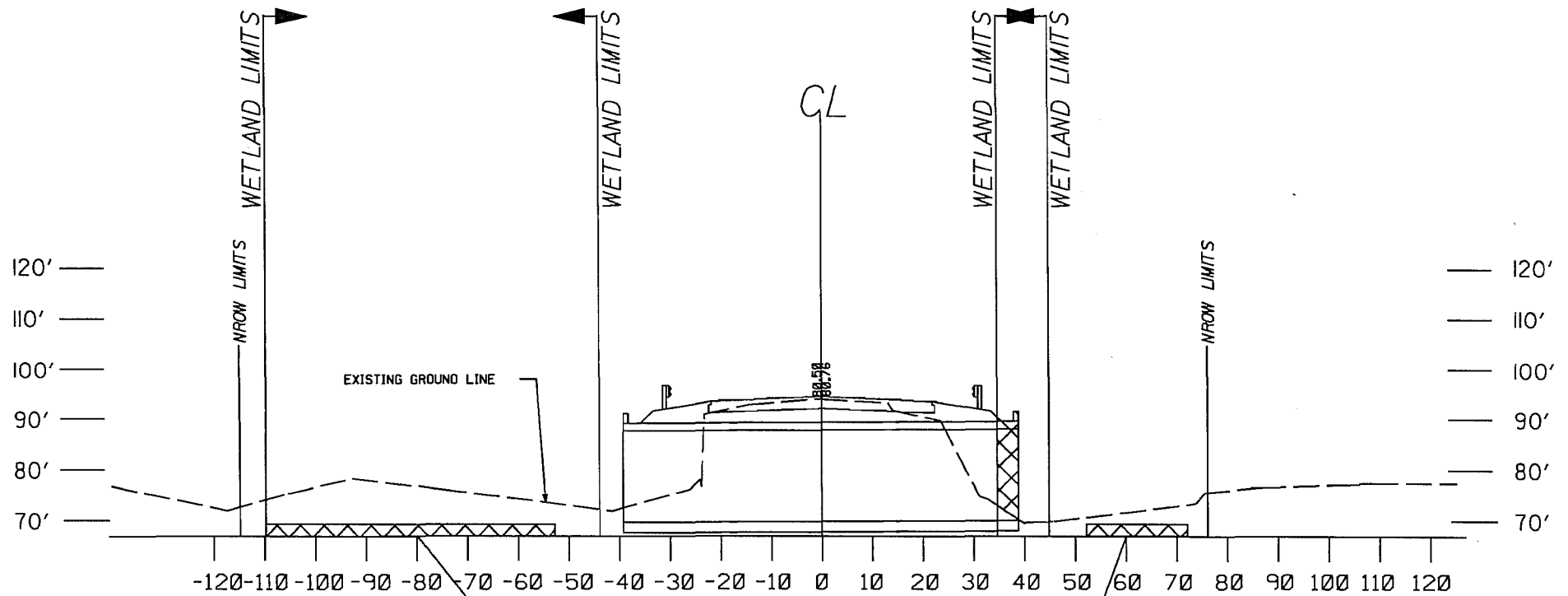
RPW AL/AN
 PERENNIAL STREAM
 139.5 LF FILL IMPACT

NRPW AM
 INTERMITTENT STREAM
 121 LF FILL IMPACT
 11 LF EXCAVATE IMPACT



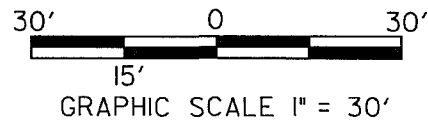
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 58 OF 102



810 + 88.00
11 - 11

RIPRAP PLACEMENT

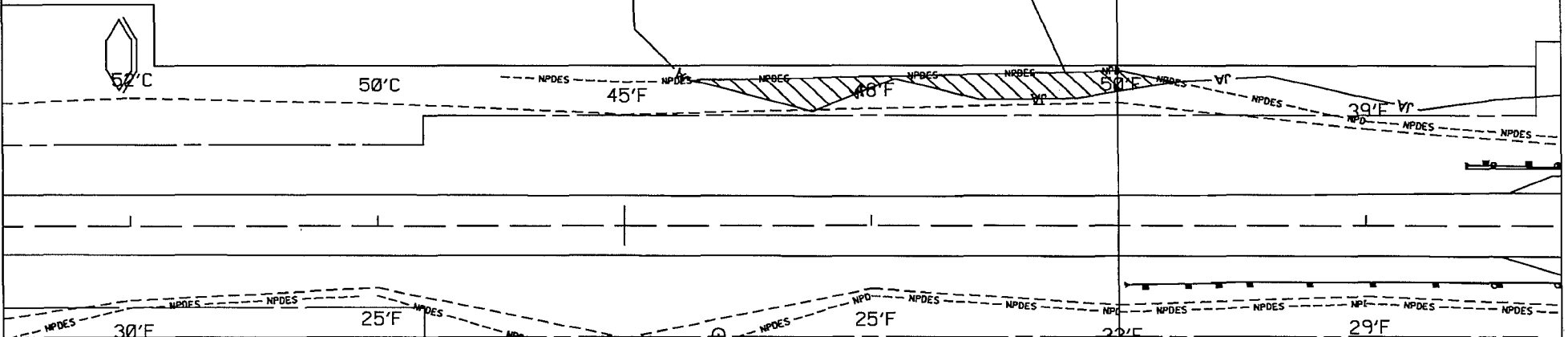


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 59 OF 102

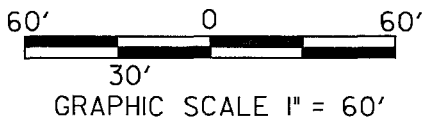
WETLAND AQ/OR
WOODED SWAMP
0.03 AC CLEAR IMPACT
(THIS SHEET)




870
JA



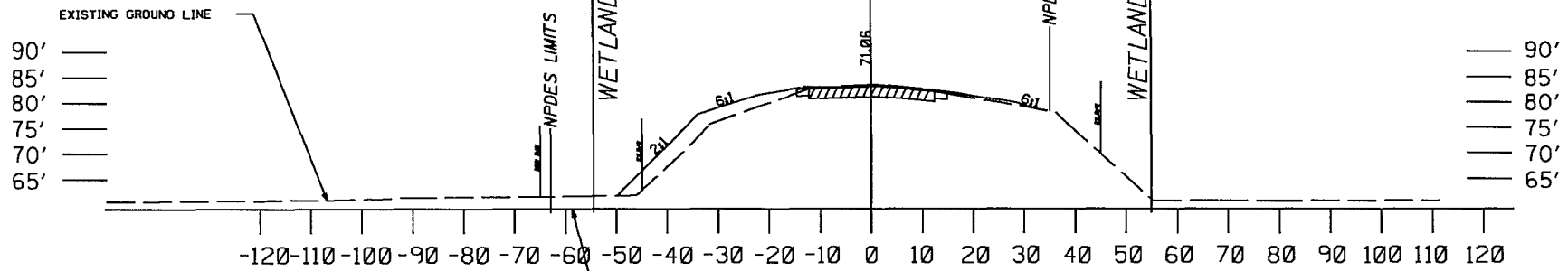
WETLAND AQ
BOTTOMLAND HARDWOOD
NO IMPACT

WETLAND AQ/OR
WOODED SWAMP
NO IMPACT
(THIS SHEET)



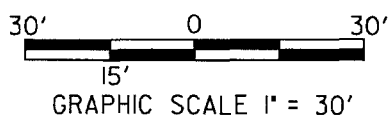
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 61 OF 102



872 + 00.00
S - S

CLEARING IMPACT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

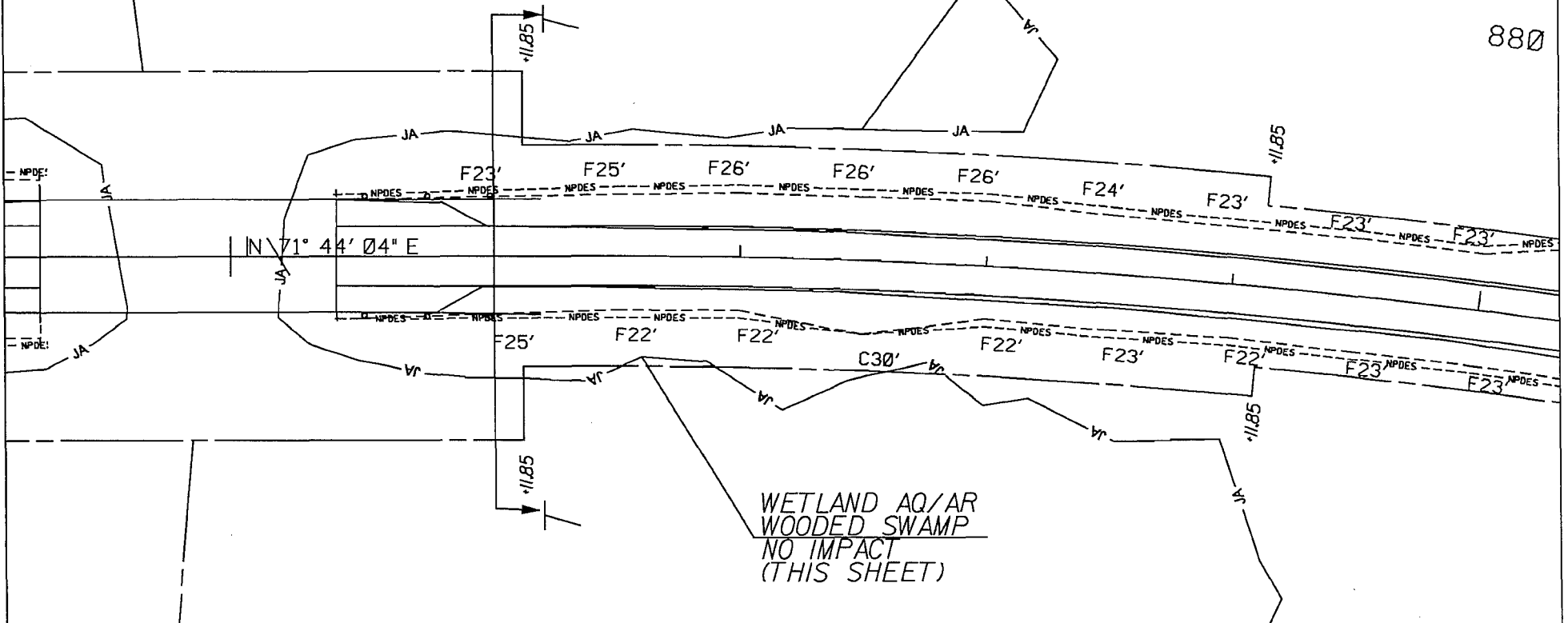
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 62 OF 102

NOTE: NO WETLAND IMPACTS THIS SHEET

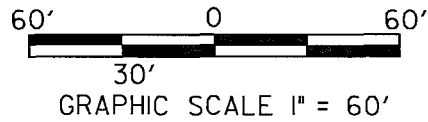
WETLAND AQ/AR
WOODED SWAMP
NO IMPACT
(THIS SHEET)




875

880



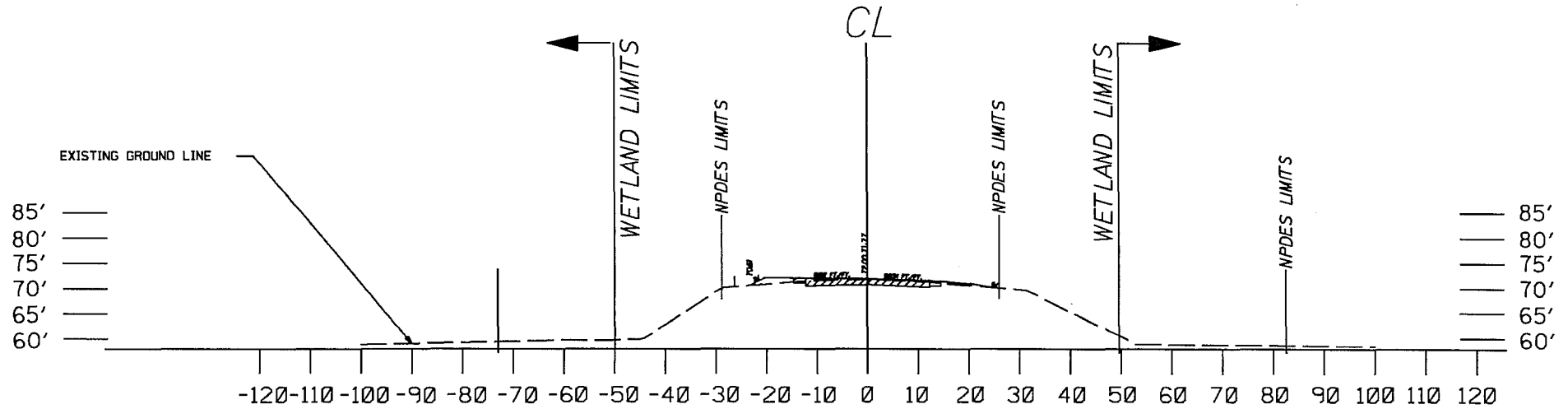
WETLAND AQ/AR
WOODED SWAMP
NO IMPACT
(THIS SHEET)



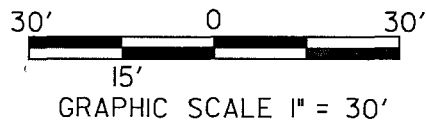
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 63 OF 102

NOTE: NO WETLAND IMPACTS THIS SHEET



876 + 00.00
T - T



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 64 OF 102




NOTE: NO WETLAND IMPACTS THIS SHEET

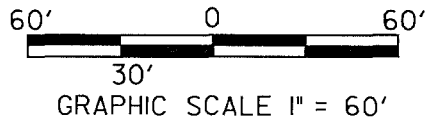
WETLAND AT
BOTTOMLAND HARDWOOD
NO IMPACT

915

S 82° 41' 20" E

WETLAND AS
BOTTOMLAND HARDWOOD
NO IMPACT

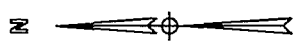
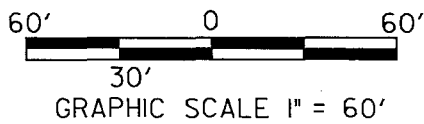
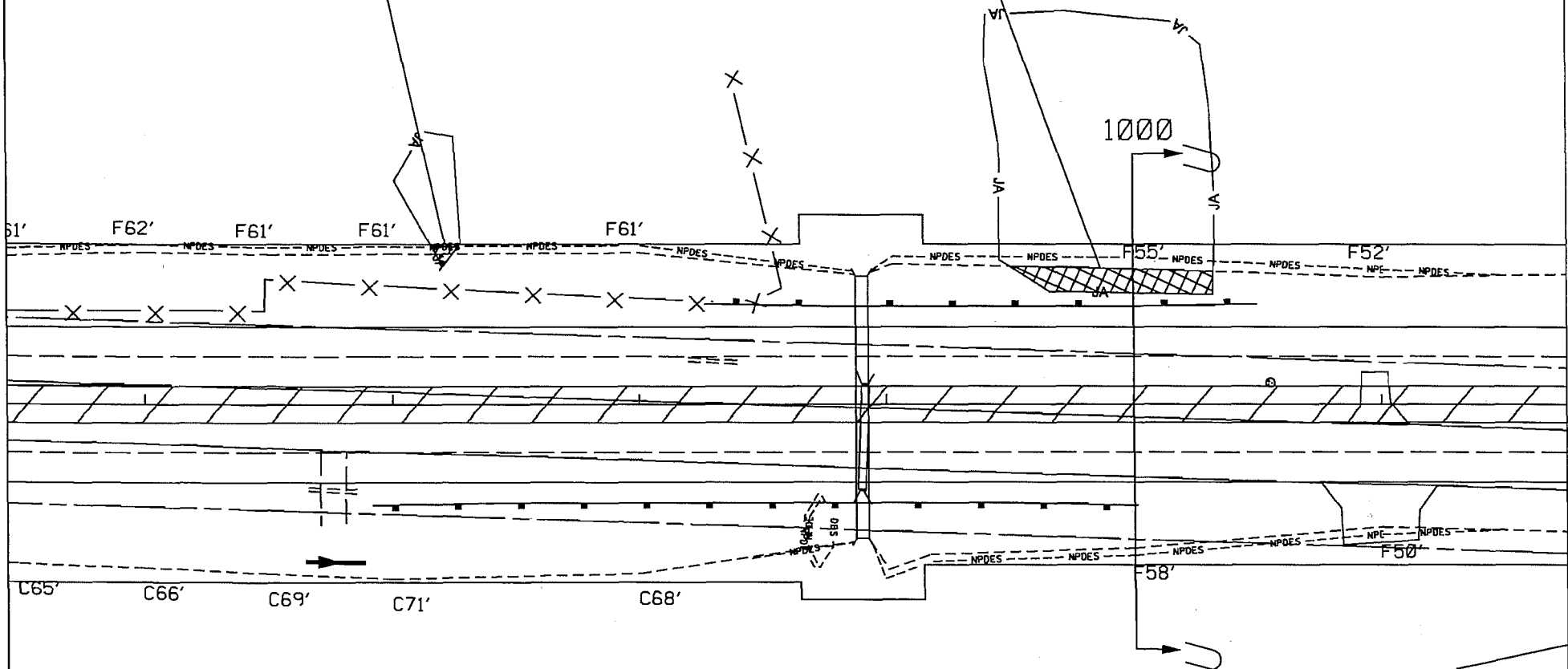
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS



APPLICATION # 2011-00311
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APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 65 OF 102

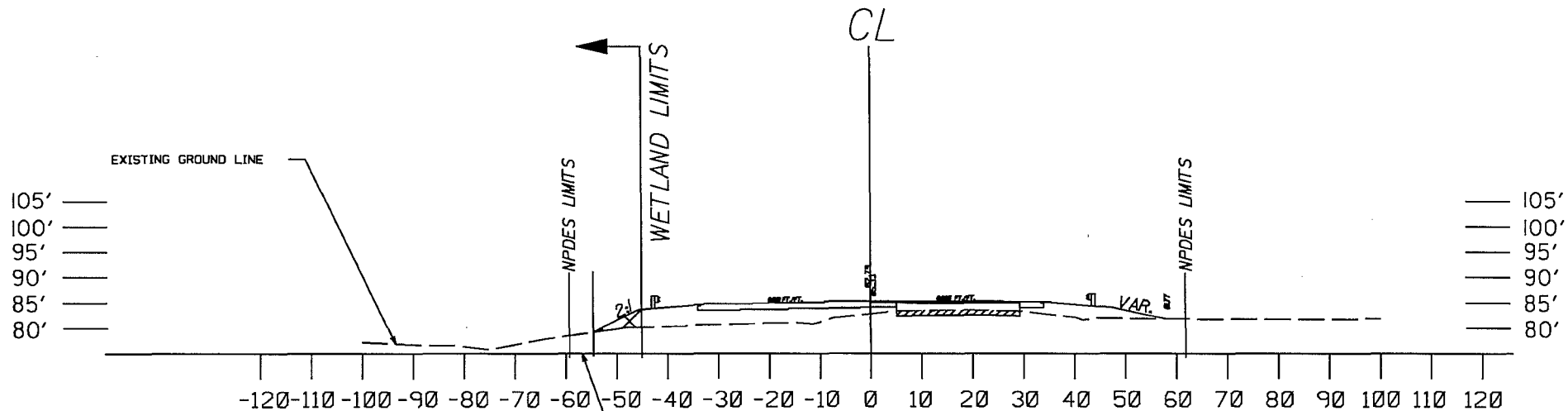
WETLAND AV
 BOTTOMLAND HARDWOOD
 0.0004 AC FILL IMPACT
 0.0006 AC CLEAR IMPACT

OPEN WATER AU
 AGRICULTURAL POND
 0.017 AC FILL IMPACT

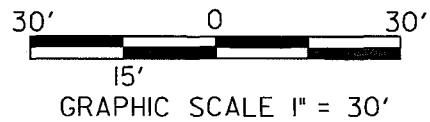





- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 66 OF 102



1000 + 00.00
U - U
CLEARING IMPACT

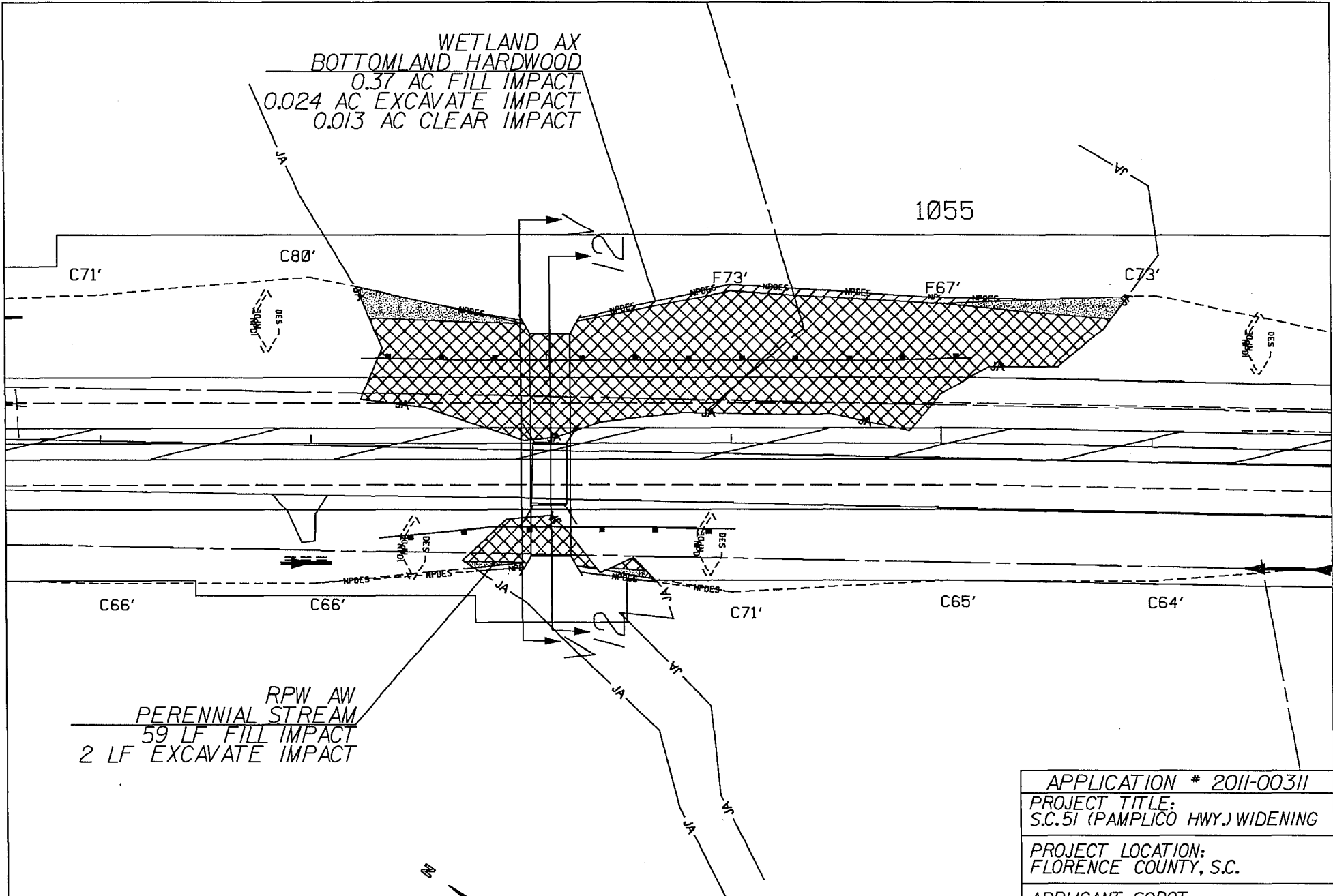


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

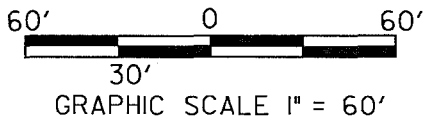
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 67 OF 102




WETLAND AX
 BOTTOMLAND HARDWOOD
 0.37 AC FILL IMPACT
 0.024 AC EXCAVATE IMPACT
 0.013 AC CLEAR IMPACT

1055

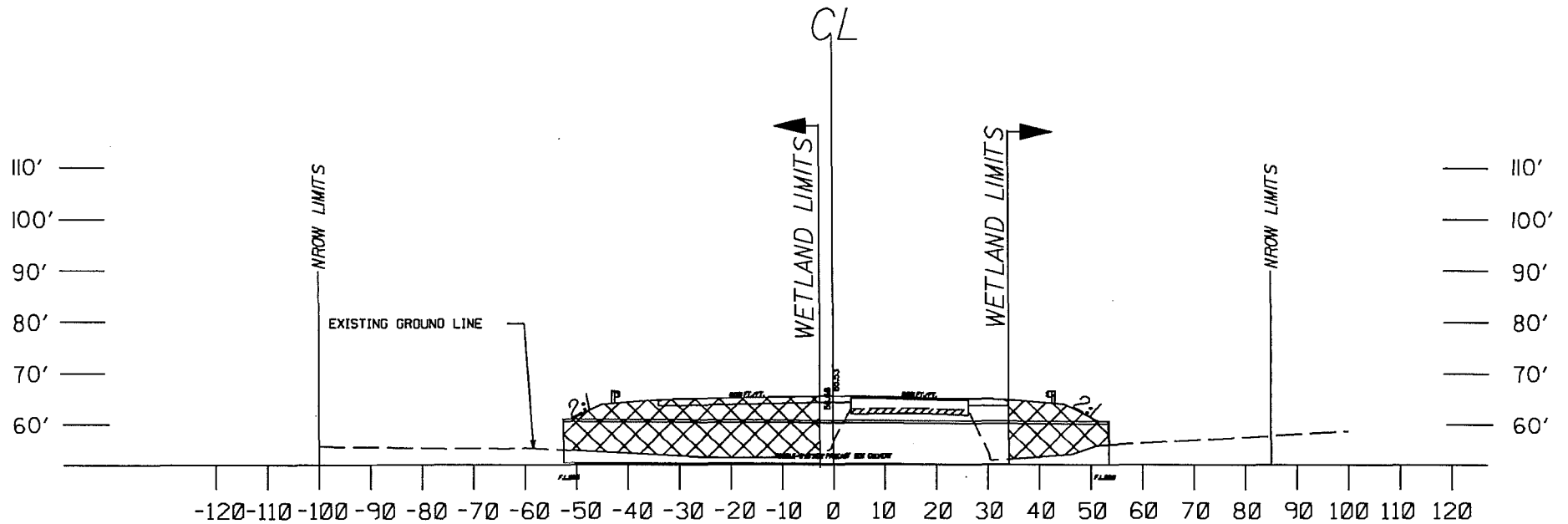


RPW AW
 PERENNIAL STREAM
 59 LF FILL IMPACT
 2 LF EXCAVATE IMPACT

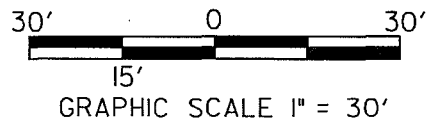





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 68 OF 102

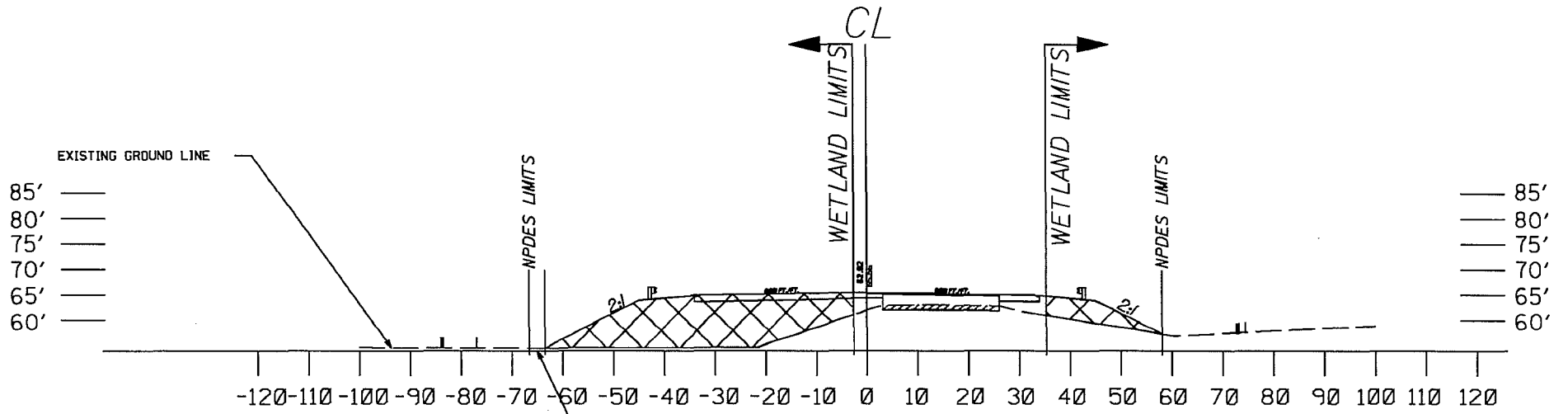


1053 + 13.53
12 - 12



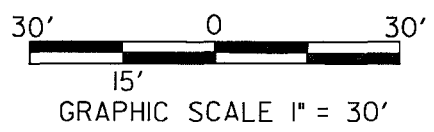
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 69 OF 102



1053 + 00.00
V - V

CLEARING IMPACT



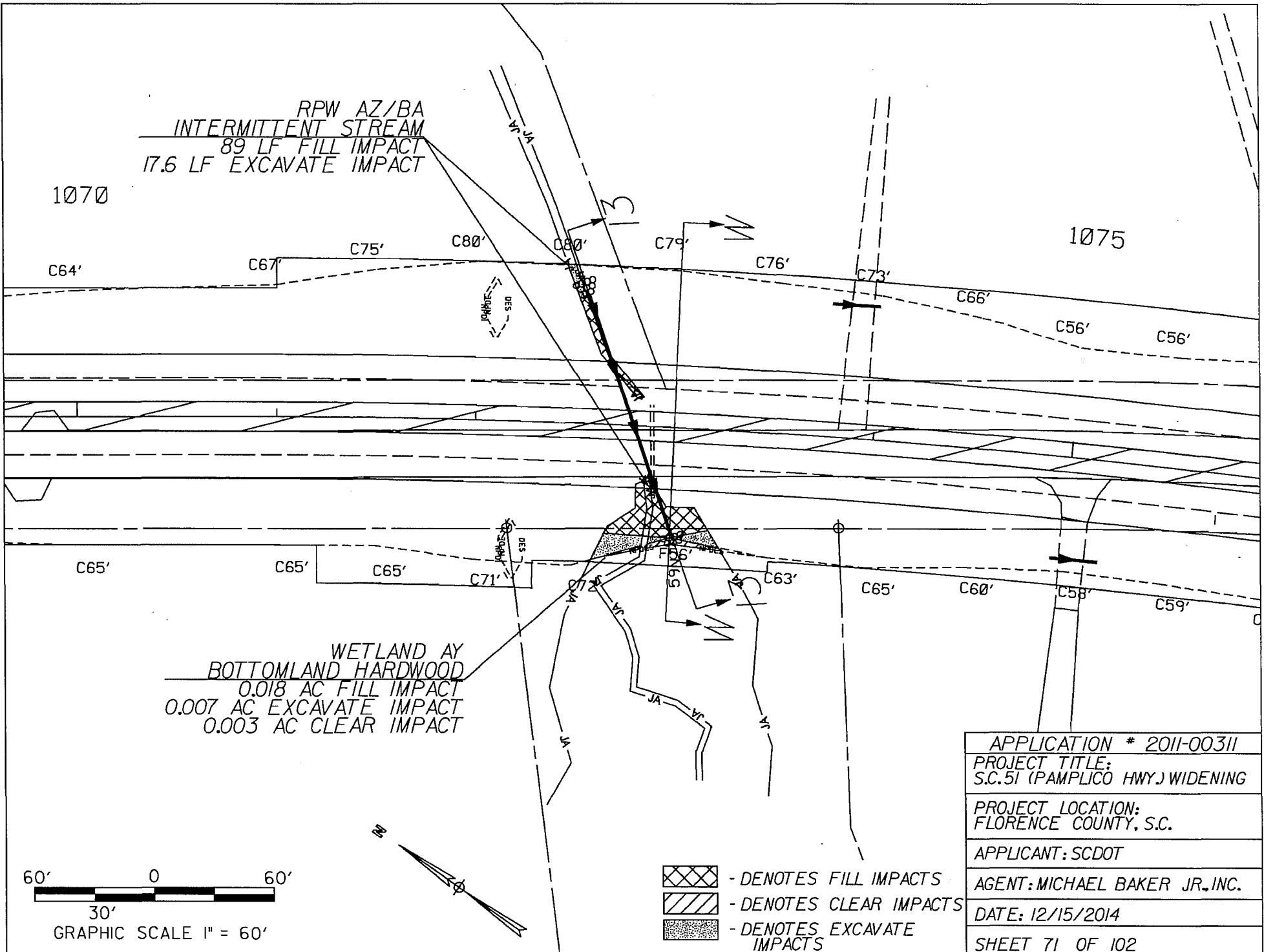
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 70 OF 102

RPW AZ/BA
 INTERMITTENT STREAM
 89 LF FILL IMPACT
 17.6 LF EXCAVATE IMPACT

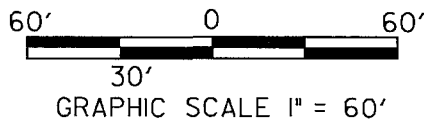
1070

1075

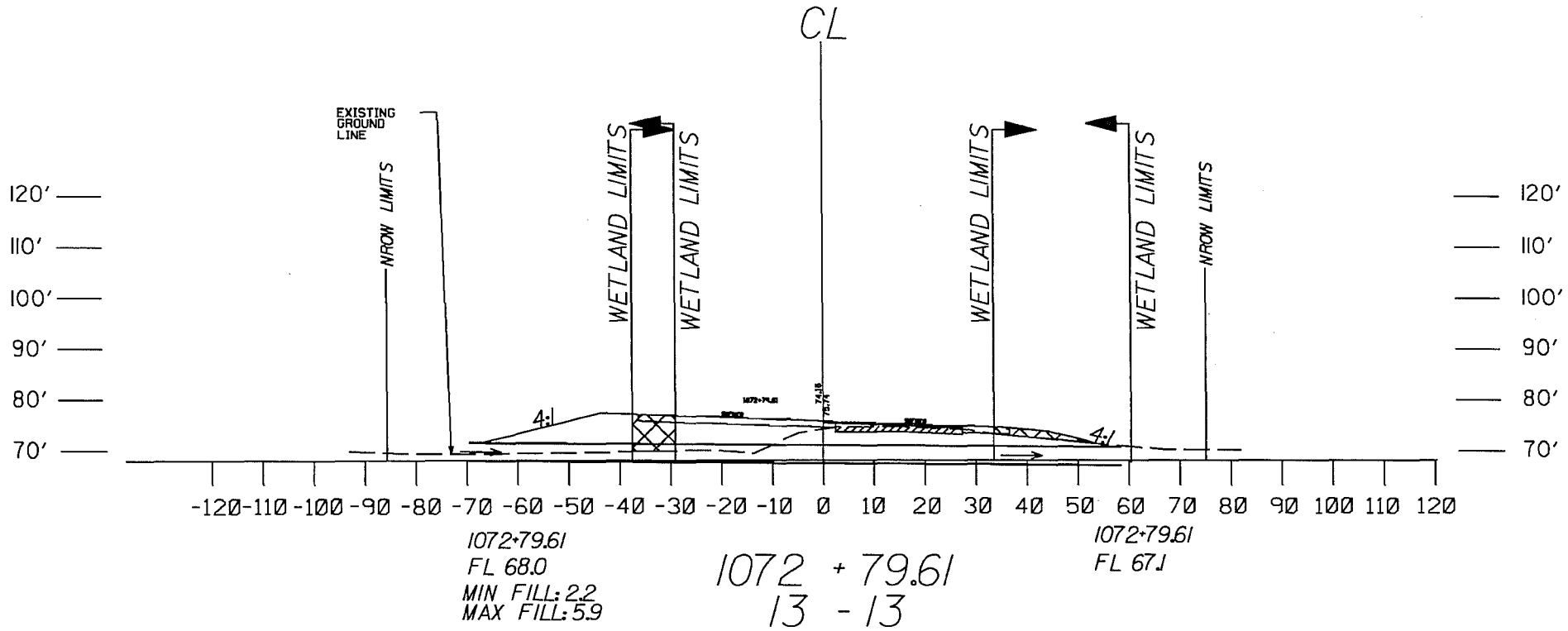


WETLAND BY
 BOTTOMLAND HARDWOOD
 0.018 AC FILL IMPACT
 0.007 AC EXCAVATE IMPACT
 0.003 AC CLEAR IMPACT

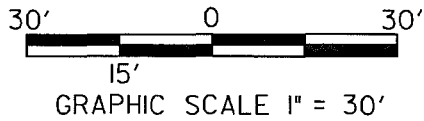
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 71 OF 102



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

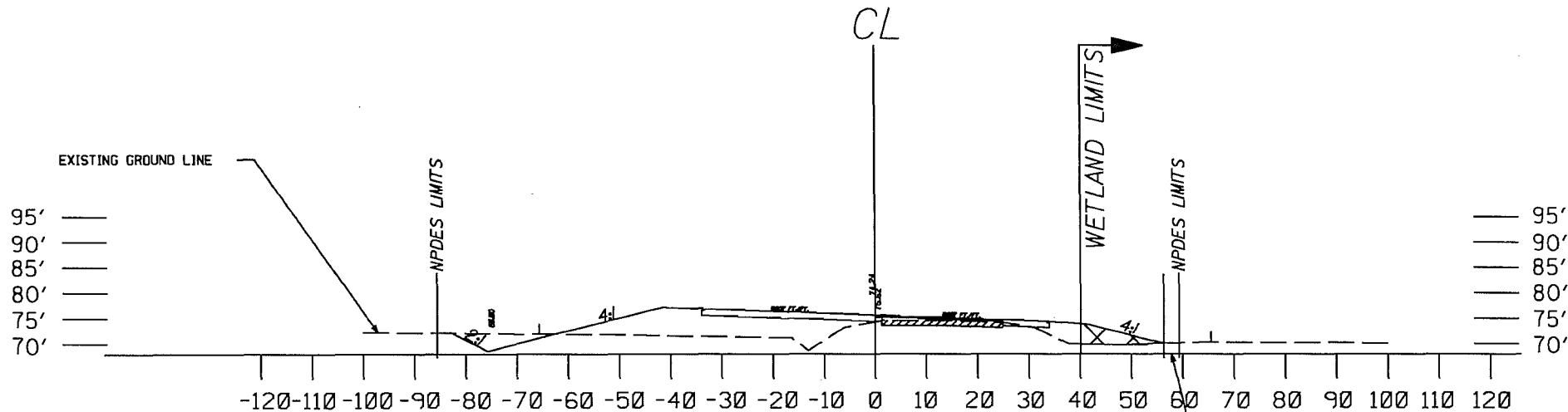


(CLP-206) 128' - 42" SWP @ 0.70%



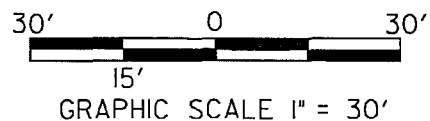
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 72 OF 102



1073 + 00.00
W - W

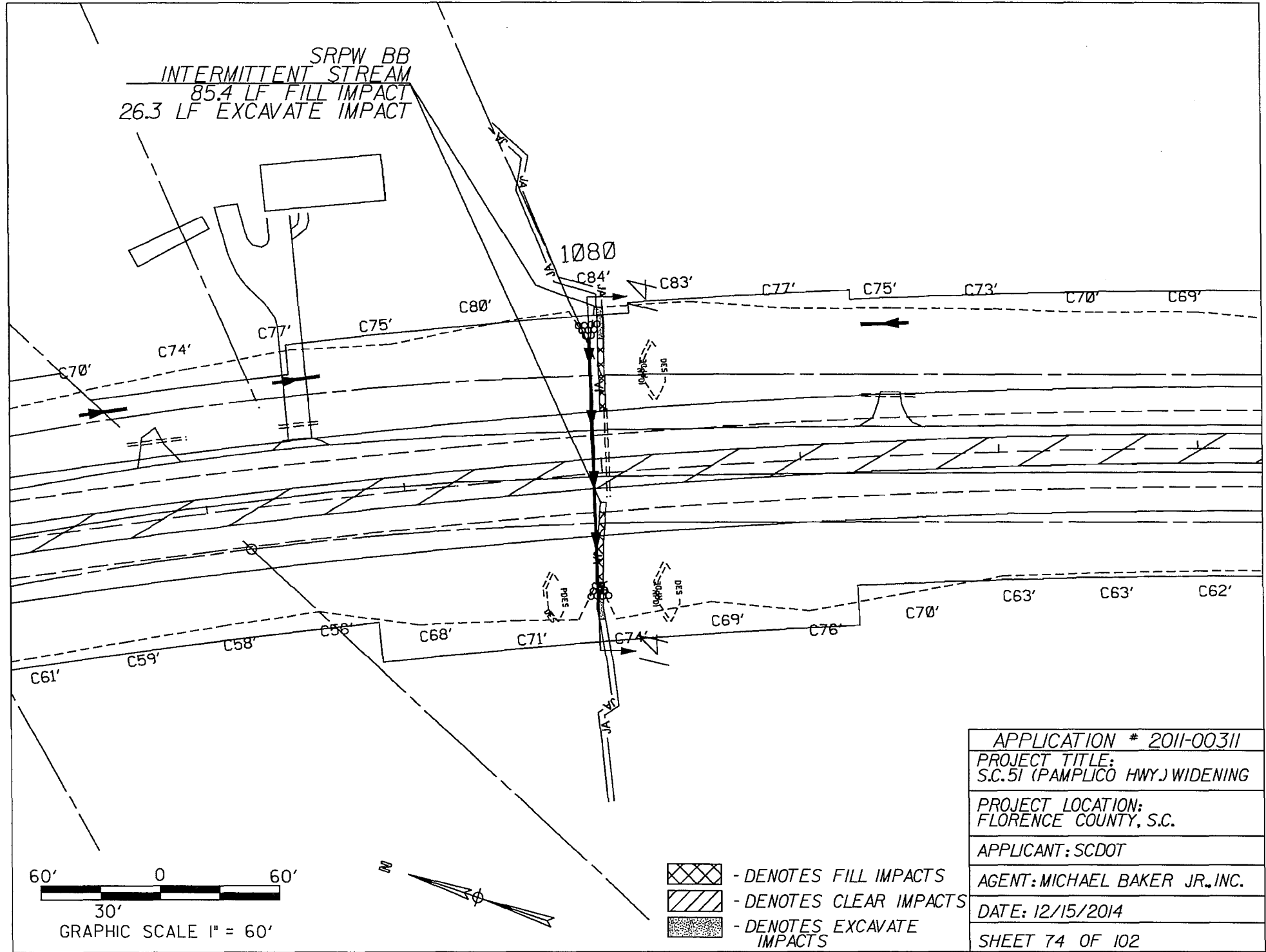
CLEARING IMPACT



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

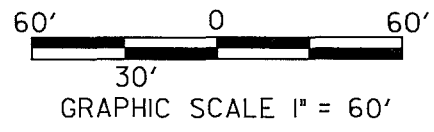
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 73 OF 102

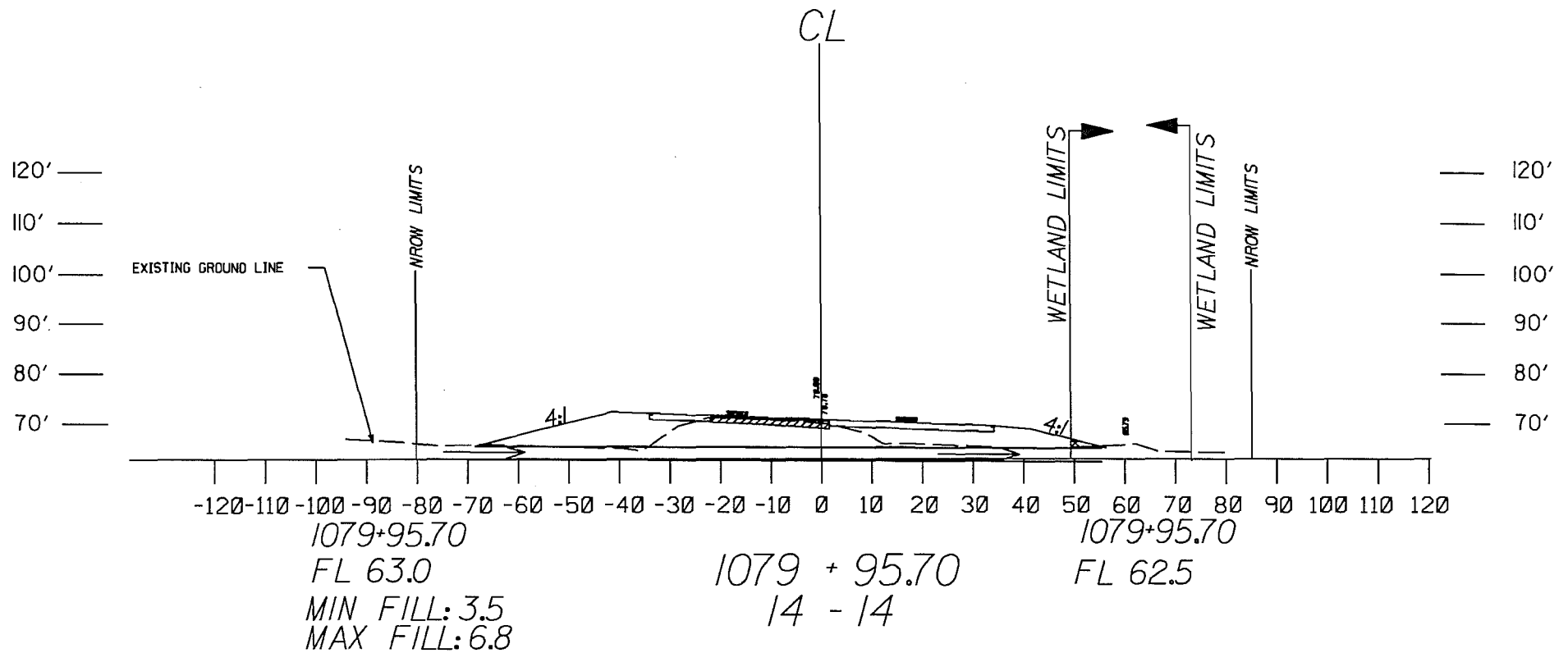
SRPW BB
 INTERMITTENT STREAM
 85.4 LF FILL IMPACT
 26.3 LF EXCAVATE IMPACT



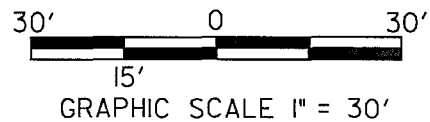
APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 74 OF 102




- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS





(CLP-208) 124' - 30" SWP @ 0.40%

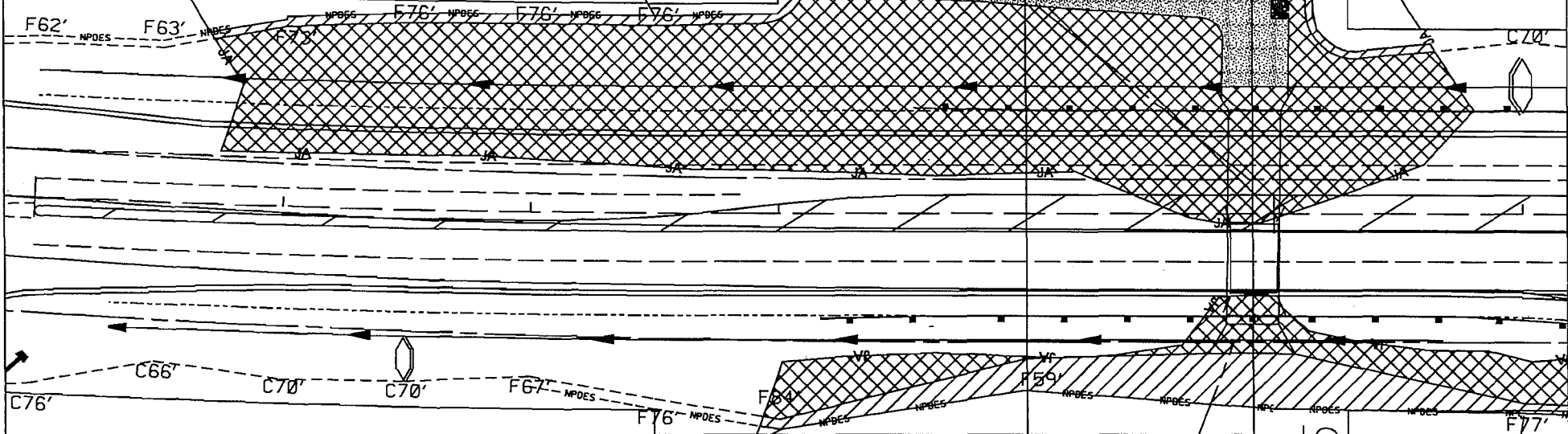


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

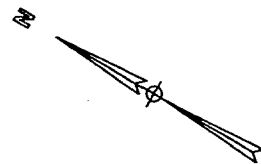
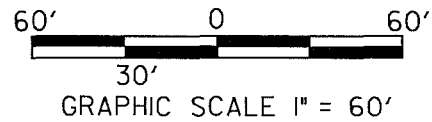
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 75 OF 102

WETLAND B0
 BOTTOMLAND HARDWOOD
 0.77 AC FILL IMPACT
 0.09 AC EXCAVATE IMPACT
 0.04 AC CLEAR IMPACT

1110

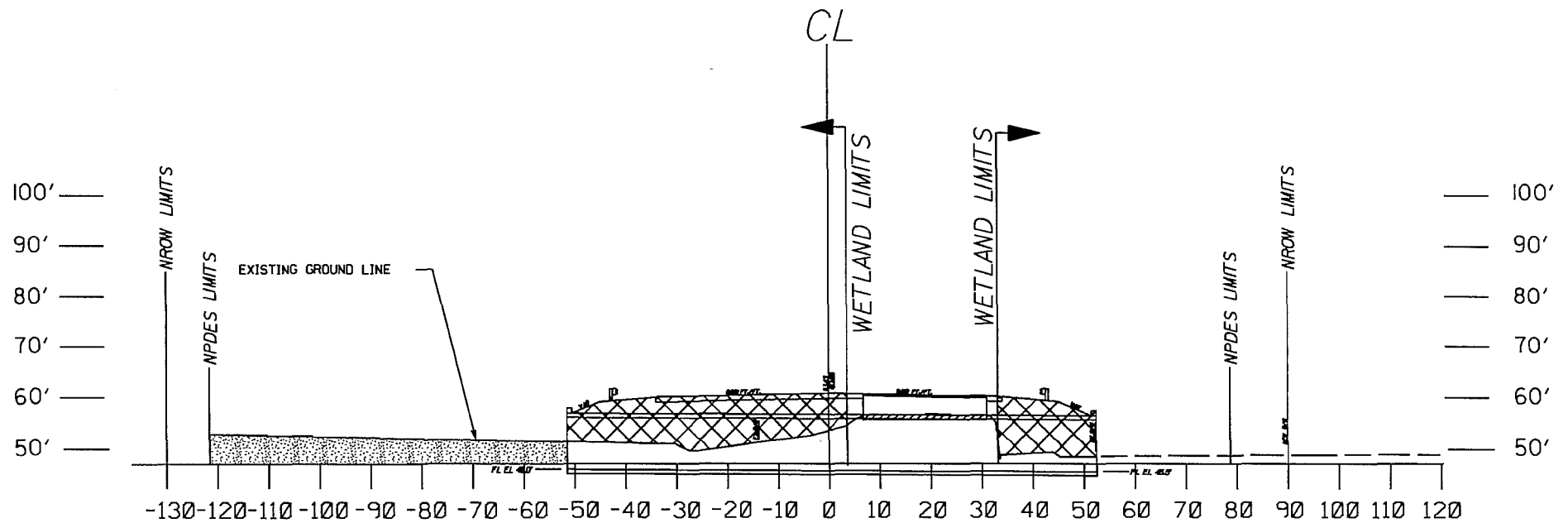


WETLAND B1
 BOTTOMLAND HARDWOOD
 0.11 AC FILL IMPACT
 0.1 AC CLEAR IMPACT
 (THIS SHEET)



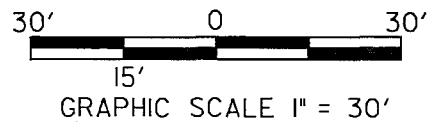
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 76 OF 102



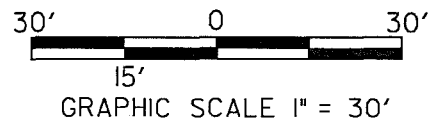
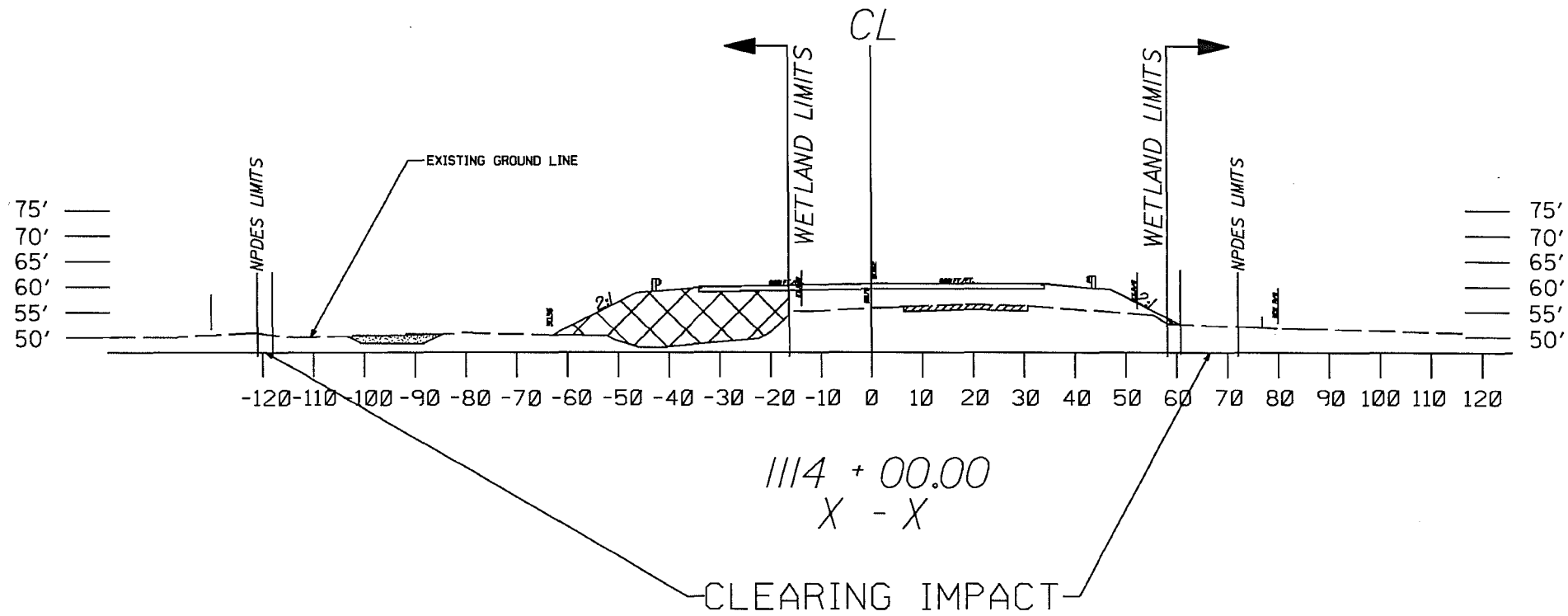
1114 + 92.00
15 - 15




10'x10' RC BOX CULVERT (DOUBLE)



-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

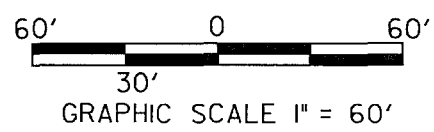
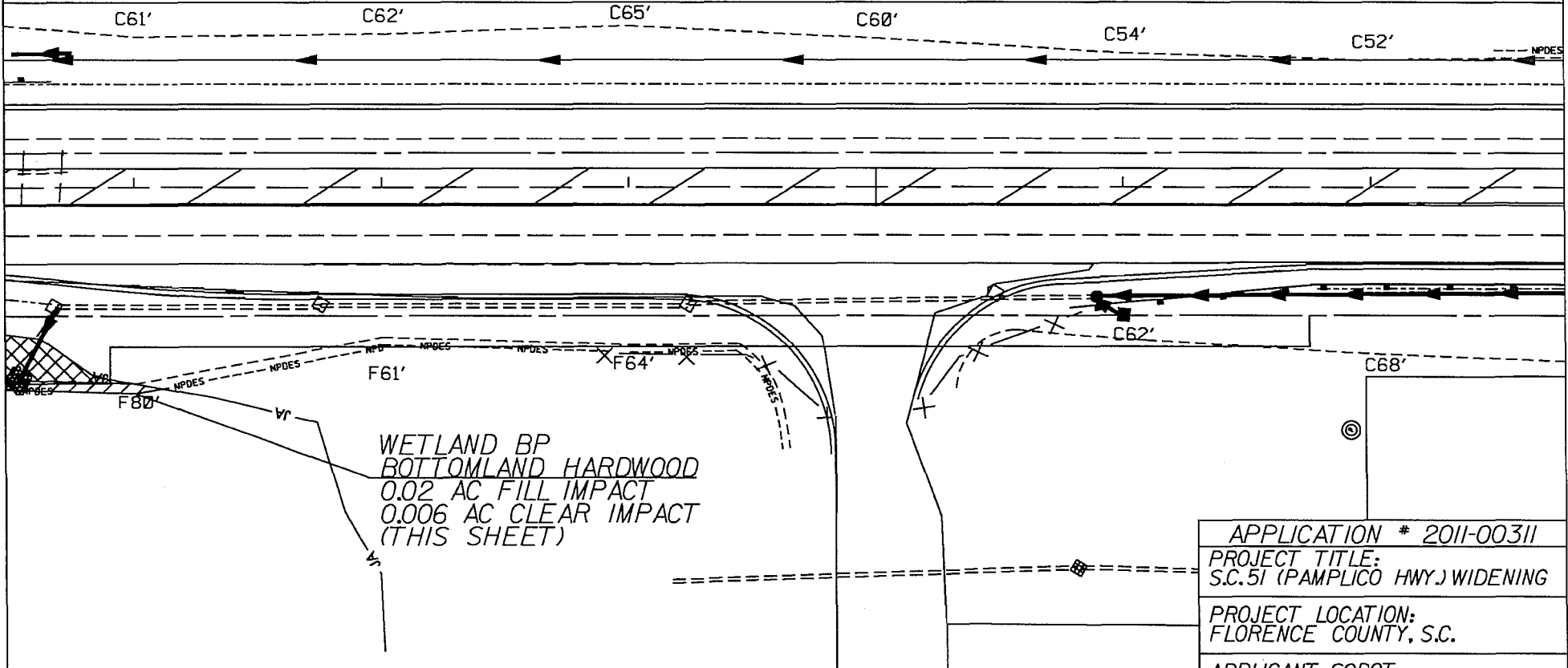
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 77 OF 102






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

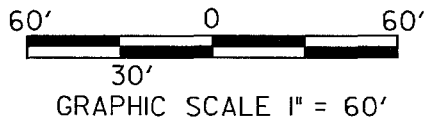
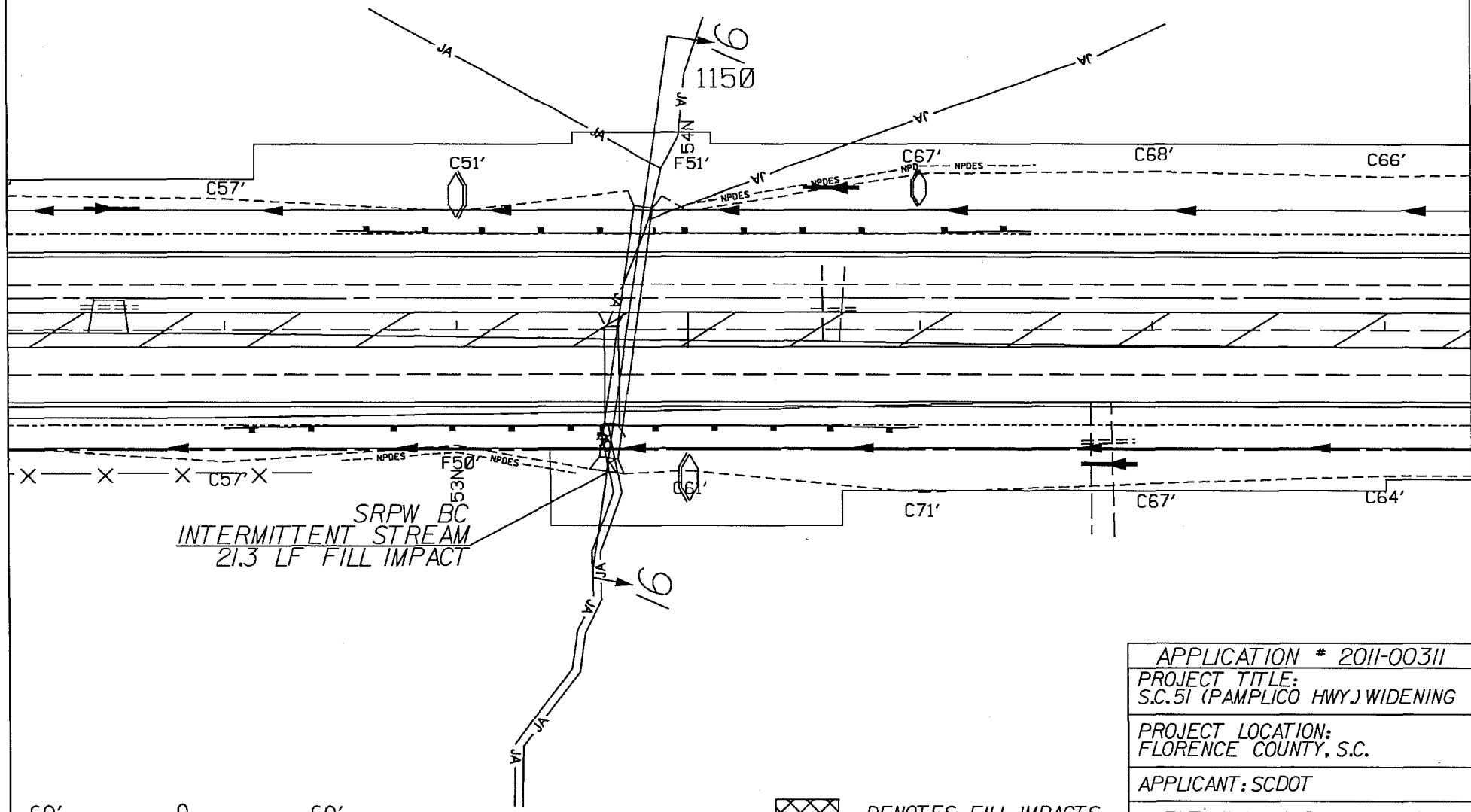
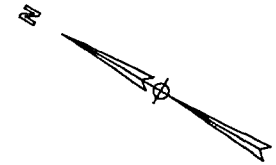
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 78 OF 102

1120



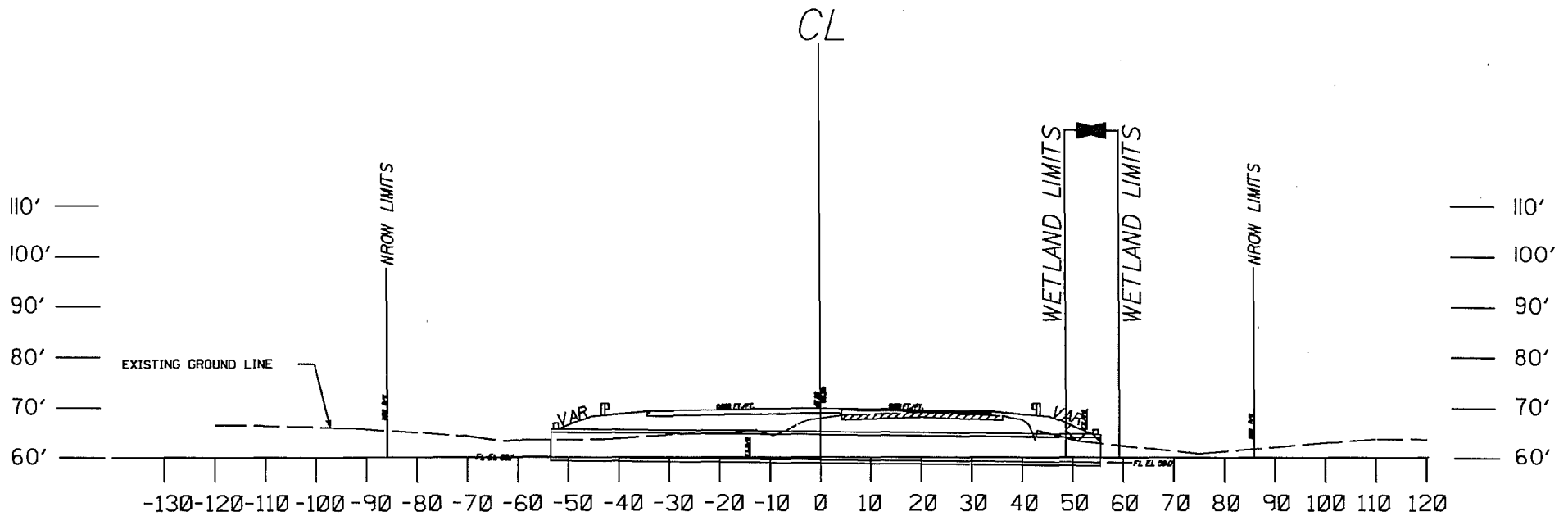
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 79 OF 102



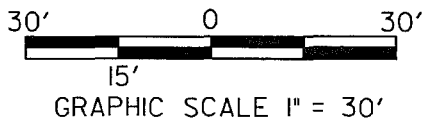
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 80 OF 102



1149 + 73.00
16 - 16

8'x5' RC BOX CULVERT



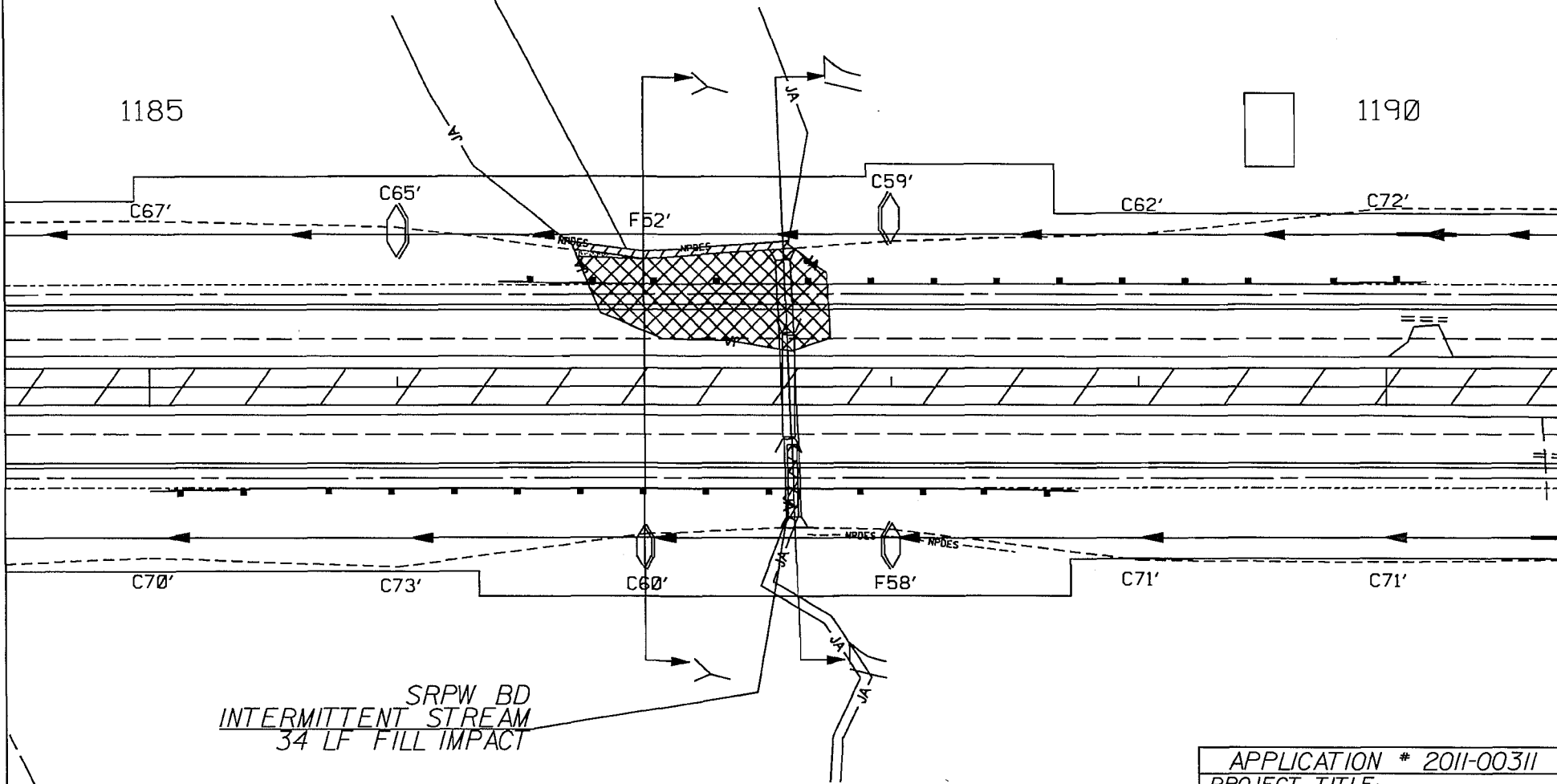
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 81 OF 102

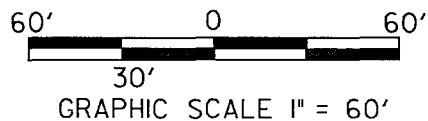
WETLAND DA
 BOTTOMLAND HARDWOOD
 0.07 AC FILL IMPACT
 0.001 AC EXCAVATE IMPACT
 0.006 AC CLEAR IMPACT




1185

1190

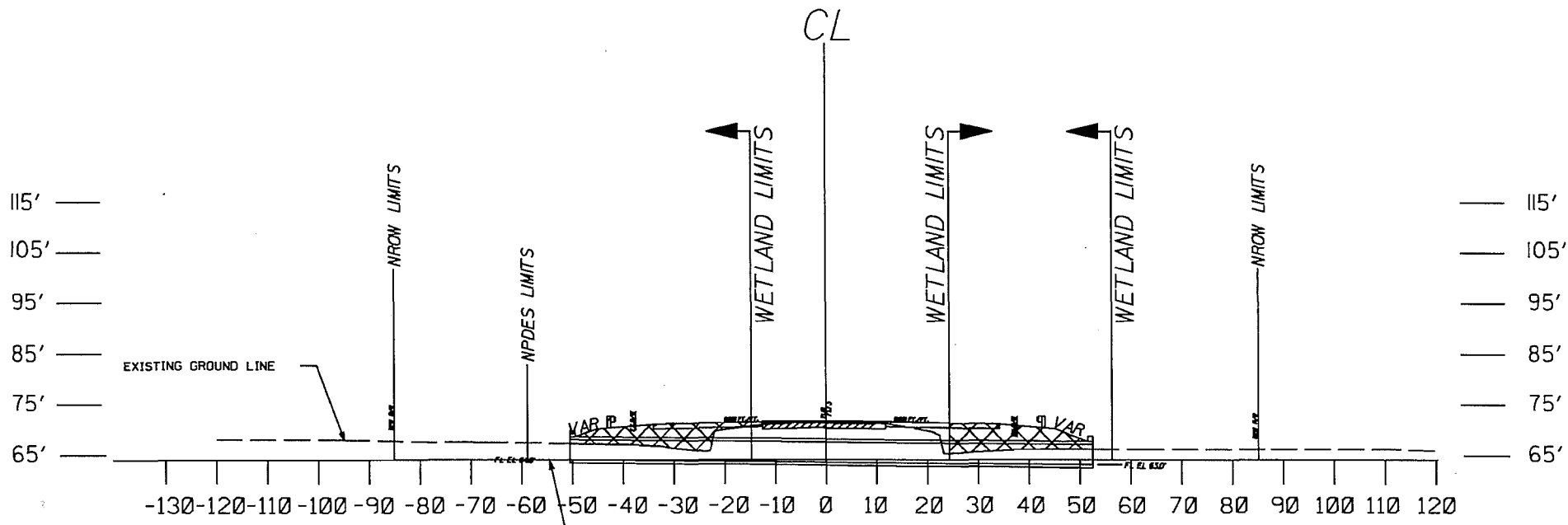


SRPW BD
 INTERMITTENT STREAM
 34 LF FILL IMPACT



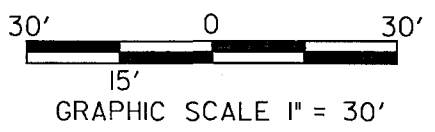
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 82 OF 102



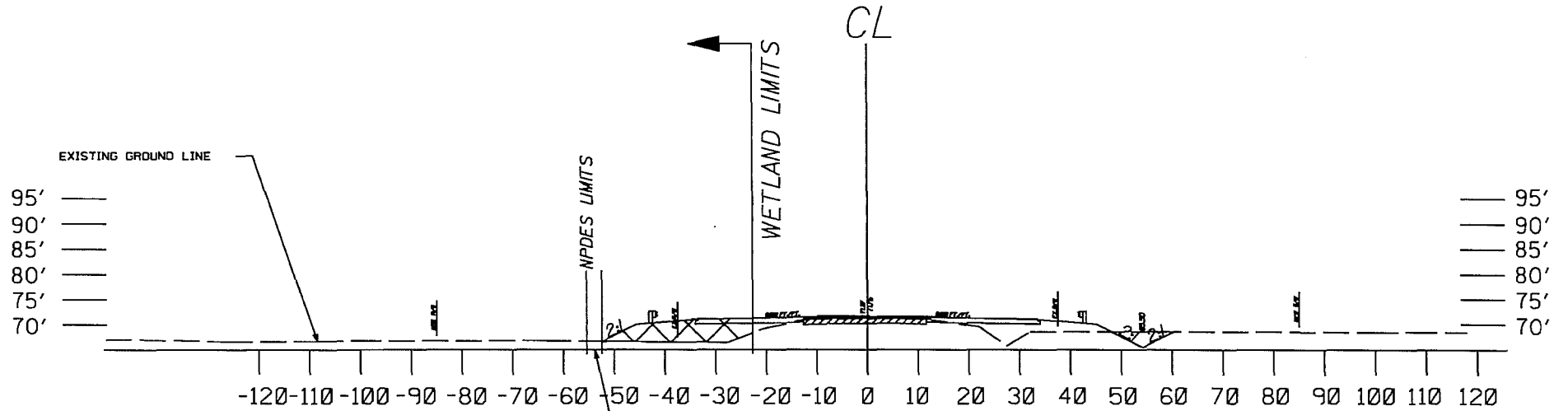
1187 + 59.00
 17 - 17
 6'x4' RC BOX CULVERT

CLEARING IMPACT



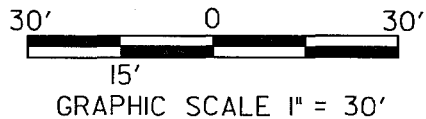
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 83 OF 79



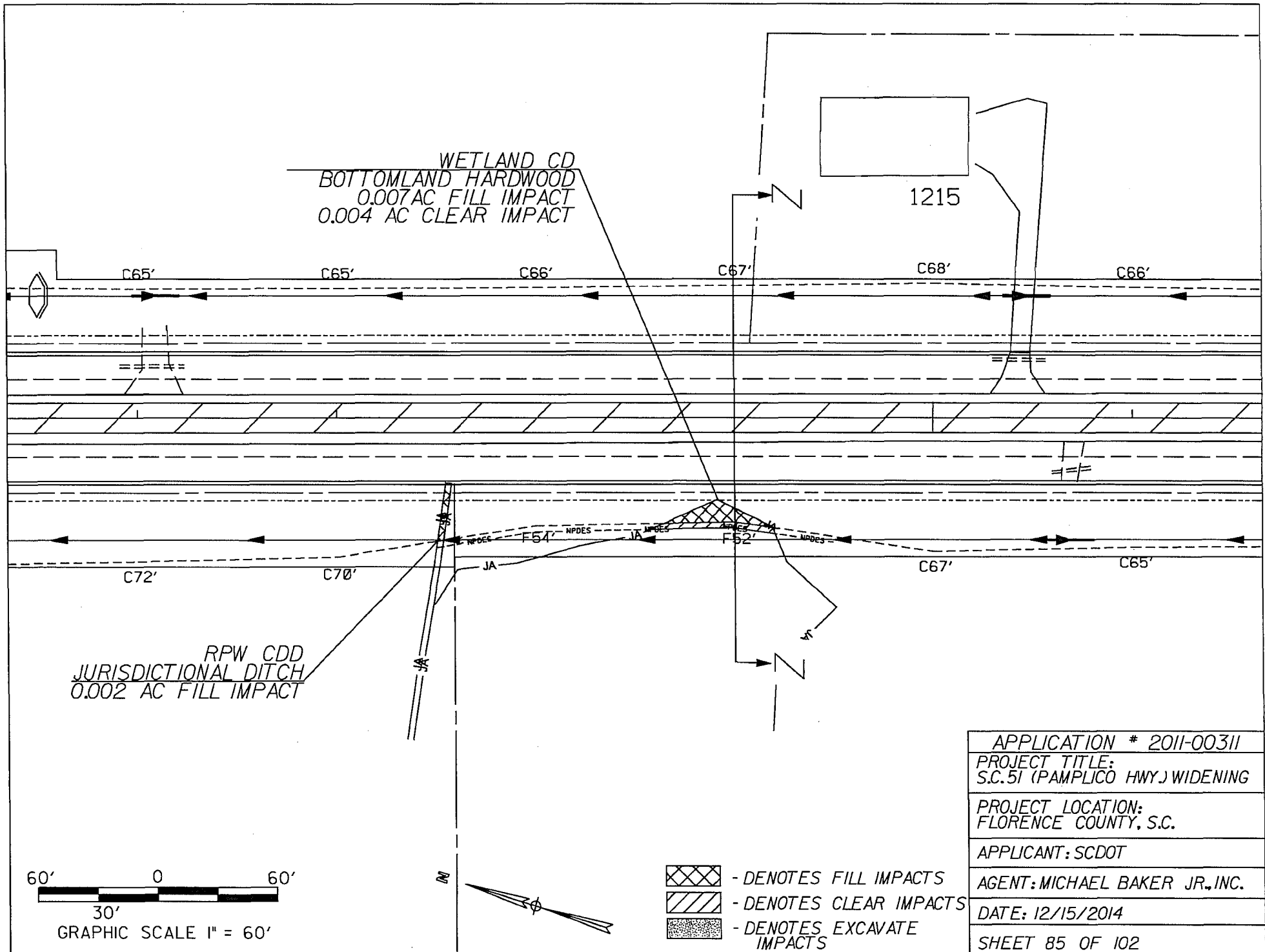
1187 + 00.00
Y - Y

CLEARING IMPACT

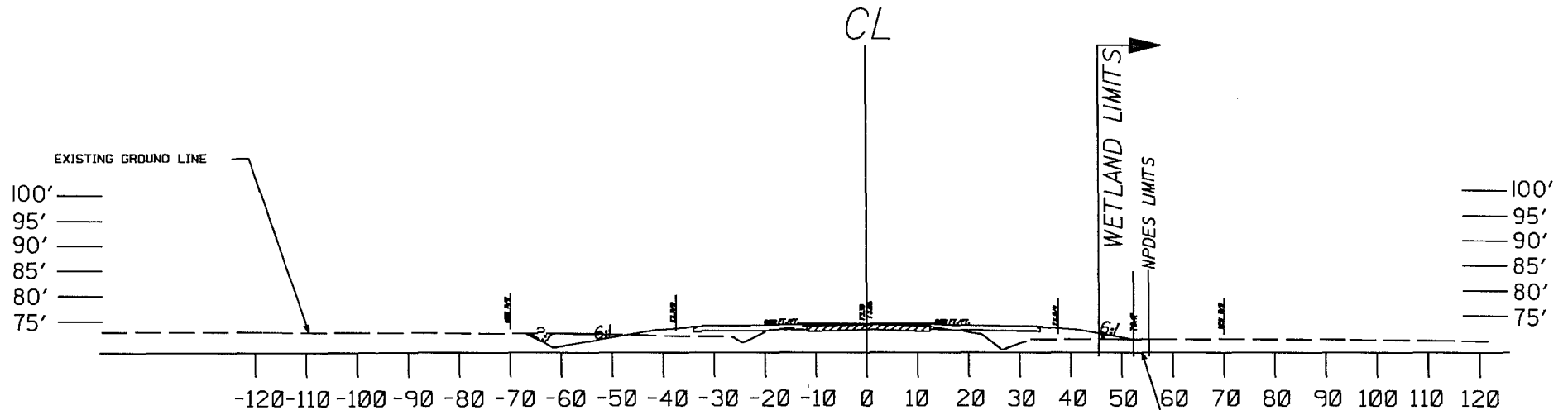


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 84 OF 102

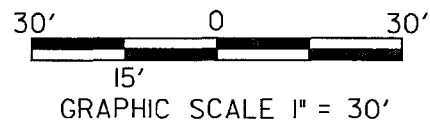





APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 85 OF 102



1214 + 00.00
Z - Z

CLEARING IMPACT



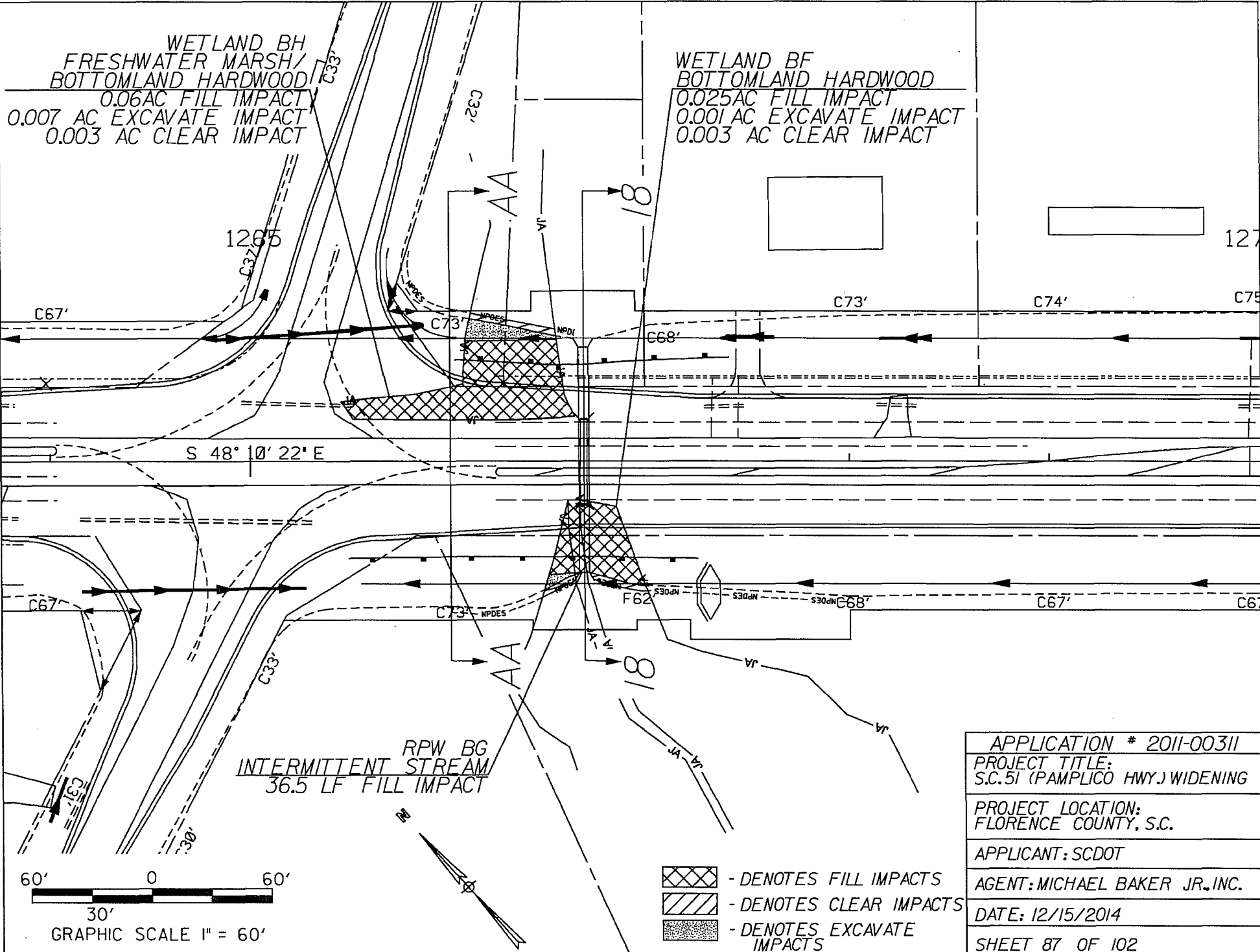
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 86 OF 102

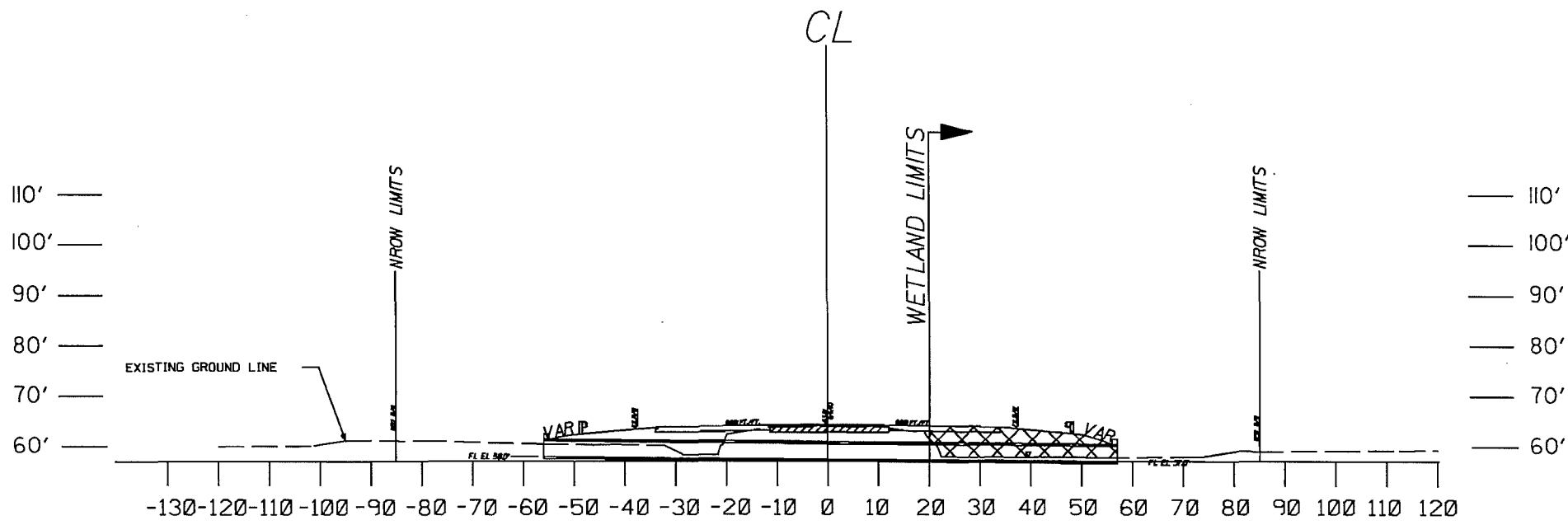
WETLAND BH
 FRESHWATER MARSH/
 BOTTOMLAND HARDWOOD
 0.06 AC FILL IMPACT
 0.007 AC EXCAVATE IMPACT
 0.003 AC CLEAR IMPACT

WETLAND BF
 BOTTOMLAND HARDWOOD
 0.025 AC FILL IMPACT
 0.001 AC EXCAVATE IMPACT
 0.003 AC CLEAR IMPACT

RPW BG
 INTERMITTENT STREAM
 36.5 LF FILL IMPACT

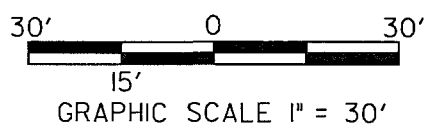





APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 87 OF 102



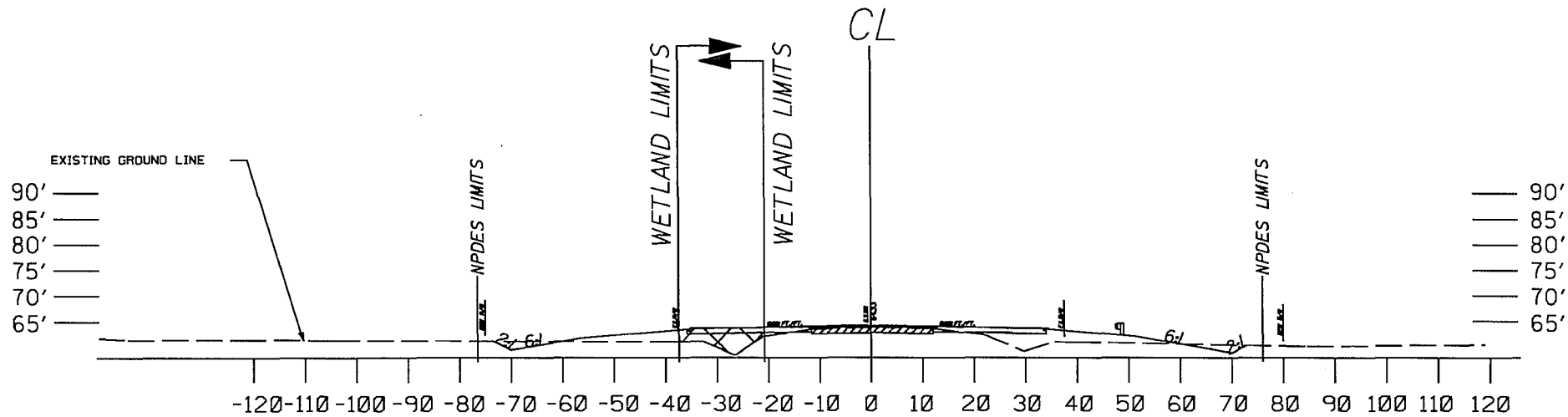
1266 + 66.00
18 - 18

4'x3' RC BOX CULVERT (DOUBLE)






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 88 OF 102



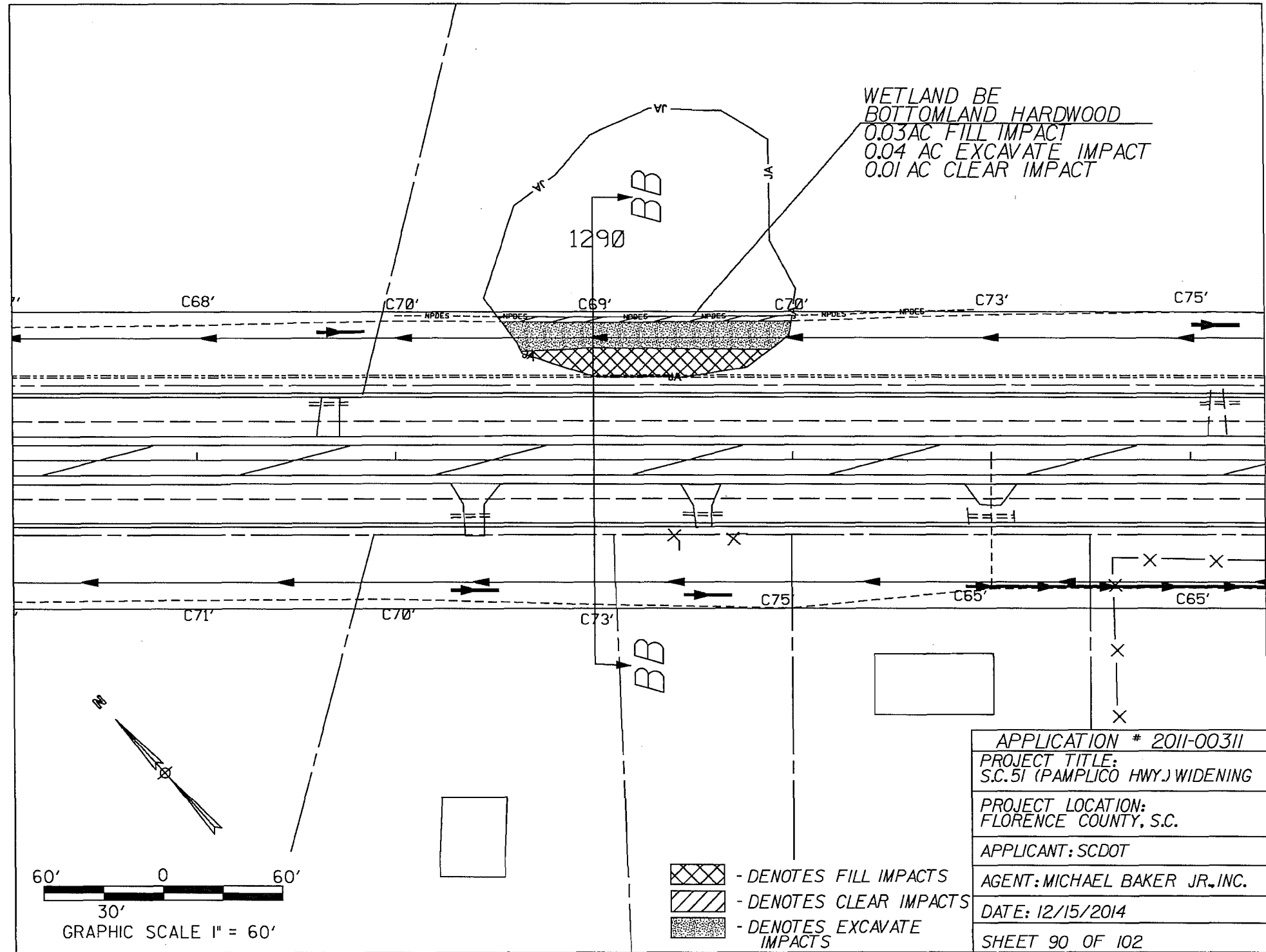
1266 + 00.00
AA - AA






-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

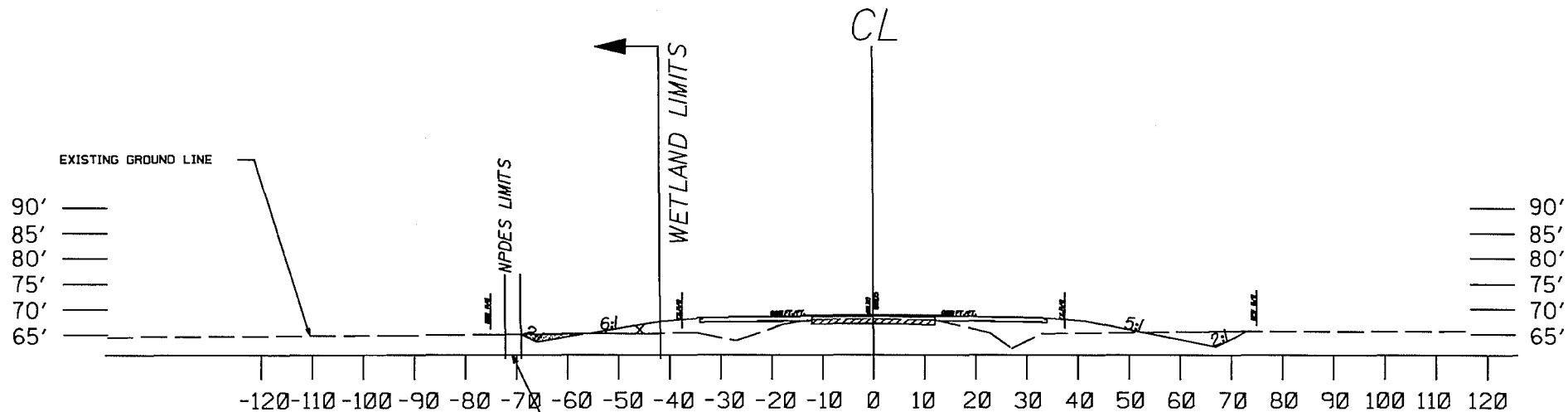
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 89 OF 102

WETLAND BE
 BOTTOMLAND HARDWOOD
 0.03AC FILL IMPACT
 0.04 AC EXCAVATE IMPACT
 0.01 AC CLEAR IMPACT



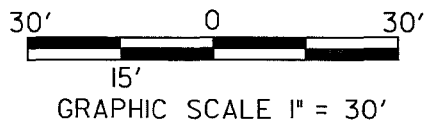
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 90 OF 102

-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS



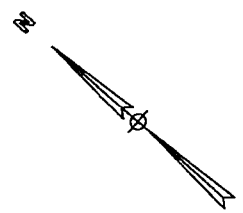
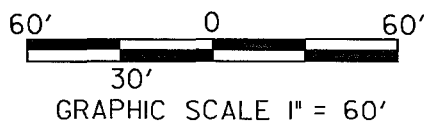
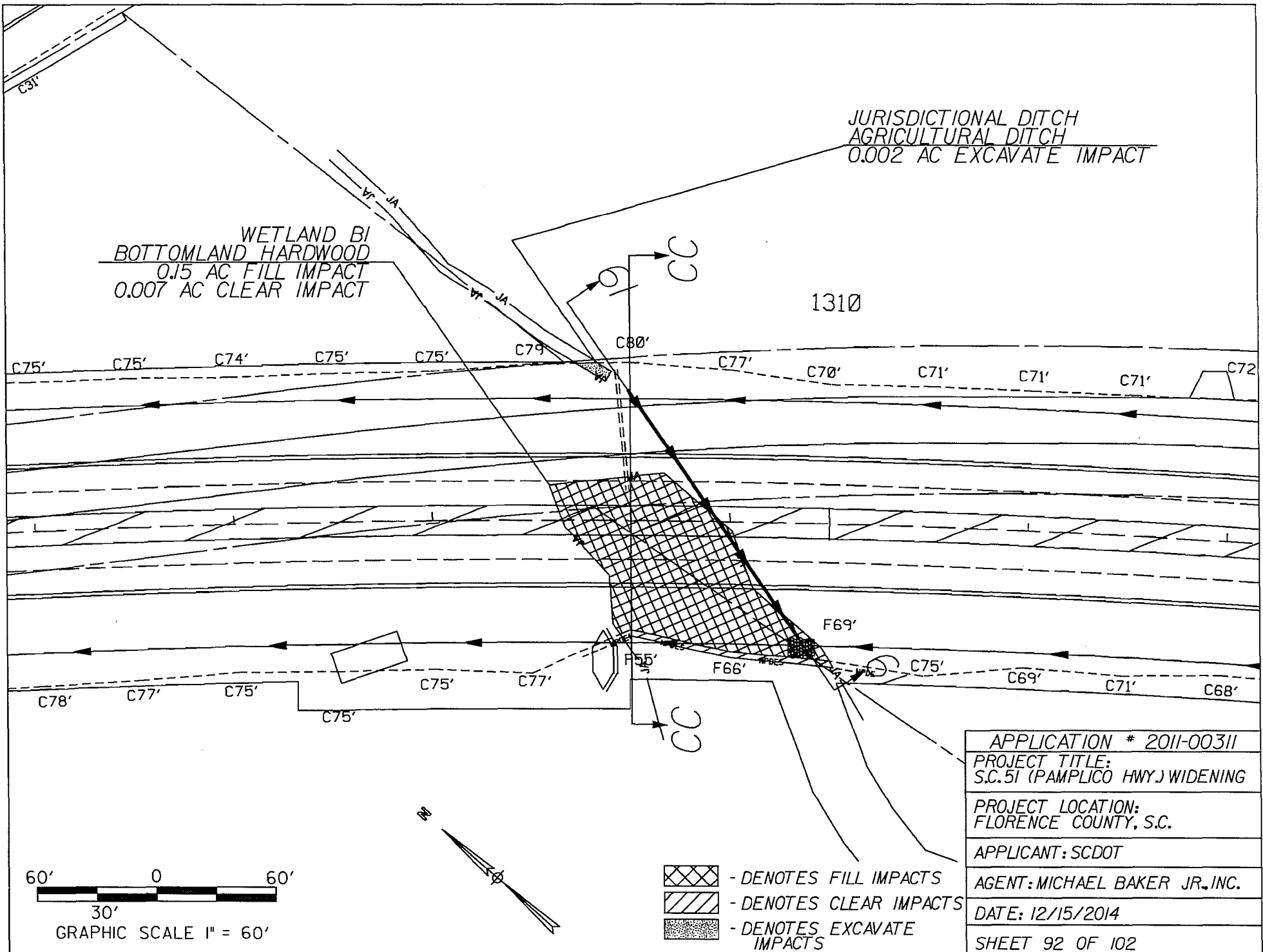
1290 + 00.00
BB - BB

CLEARING IMPACT



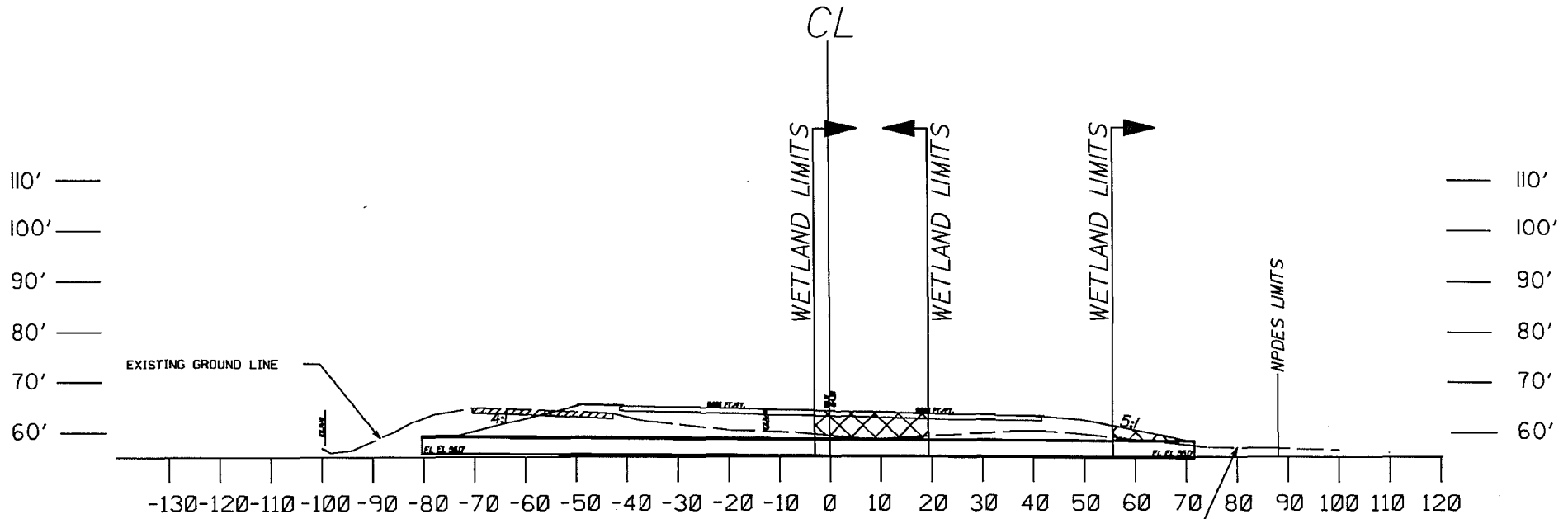
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 91 OF 102



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

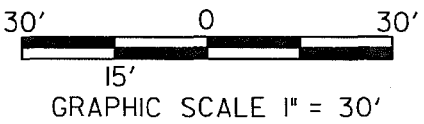
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 92 OF 102



1309 + 44.08
19 - 19

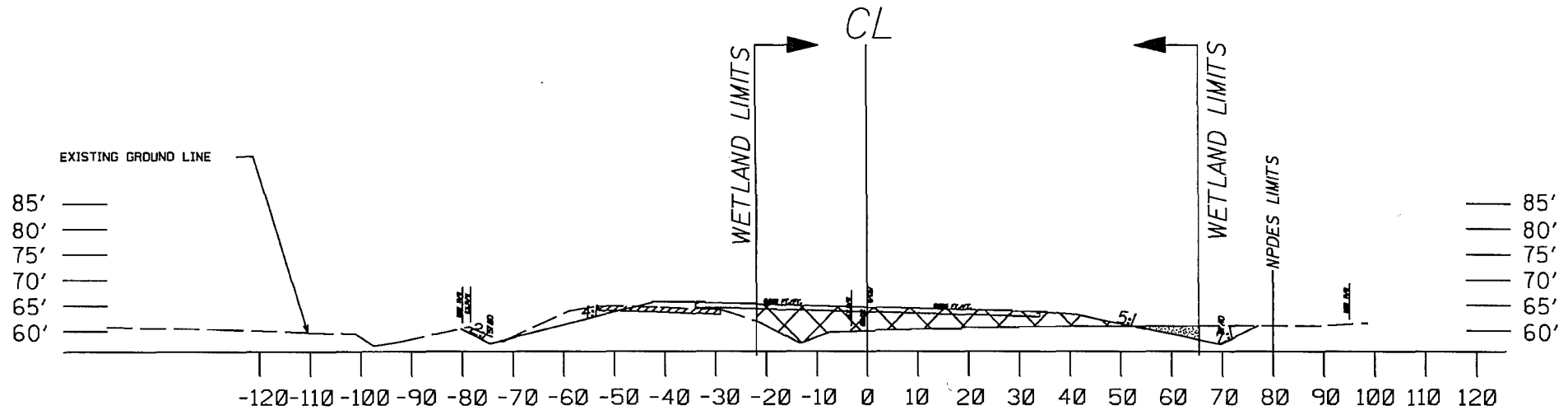
152' - 36" RC PIPE AT 0.66%

CLEARING IMPACT

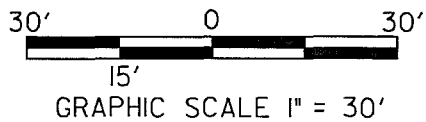





- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 93 OF 79



1308 + 00.00
CC - CC



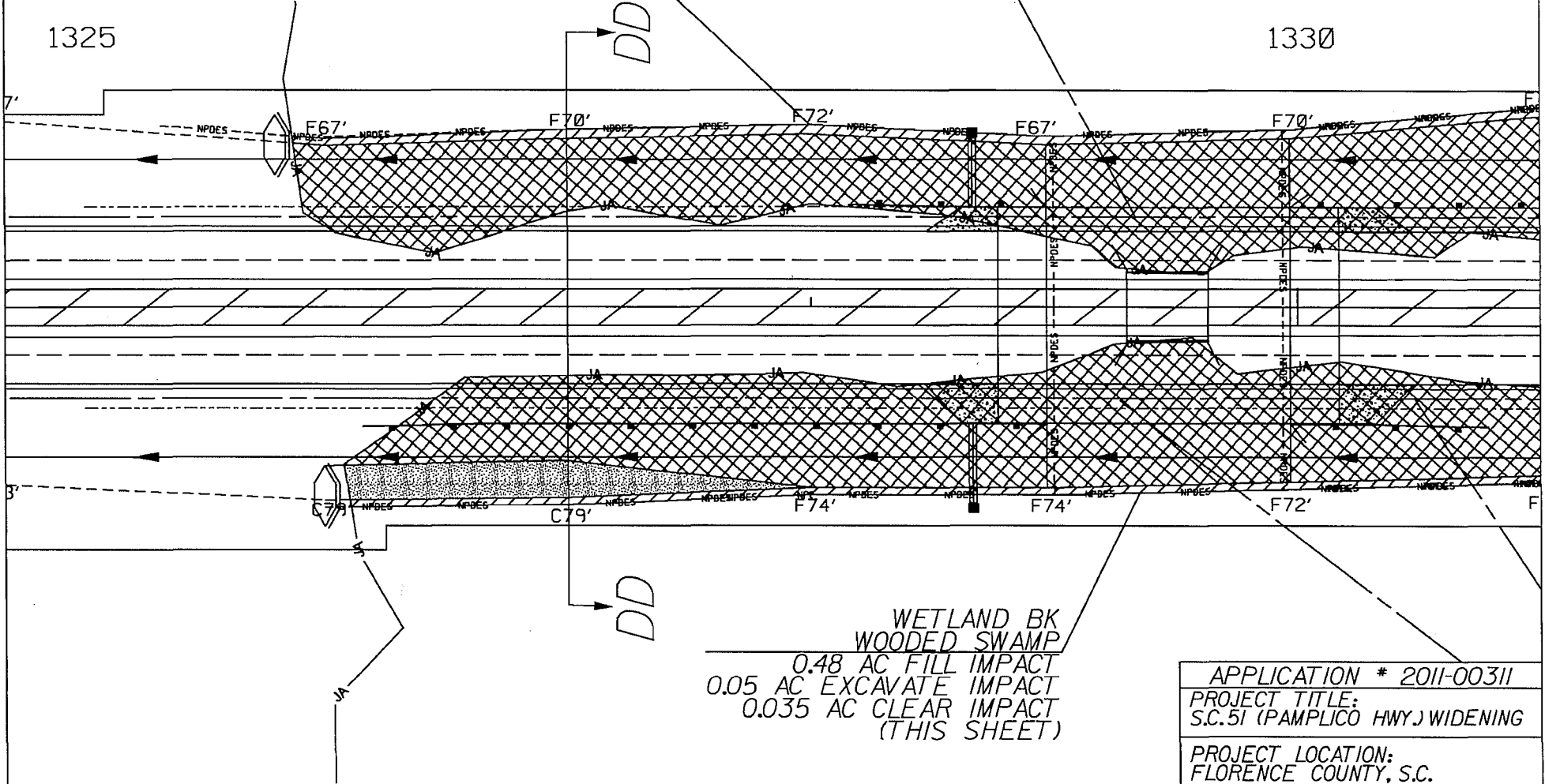
-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 94 OF 102

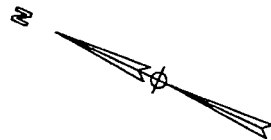
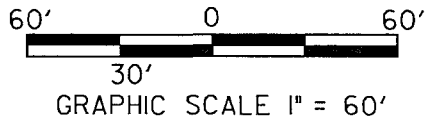
WETLAND BJ
 WOODED SWAMP
 0.49 AC FILL IMPACT
 0.04 AC CLEAR IMPACT
 (THIS SHEET)

1325

1330

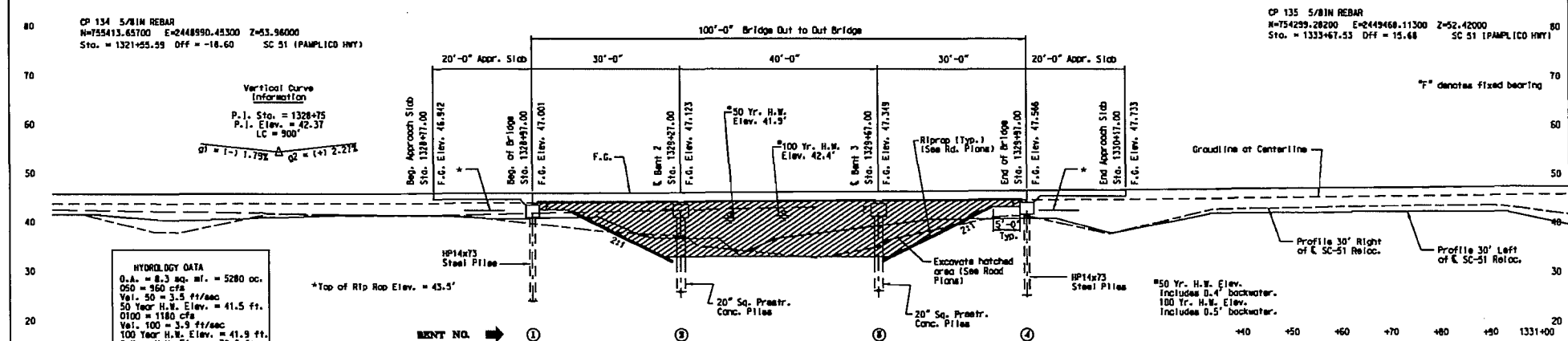
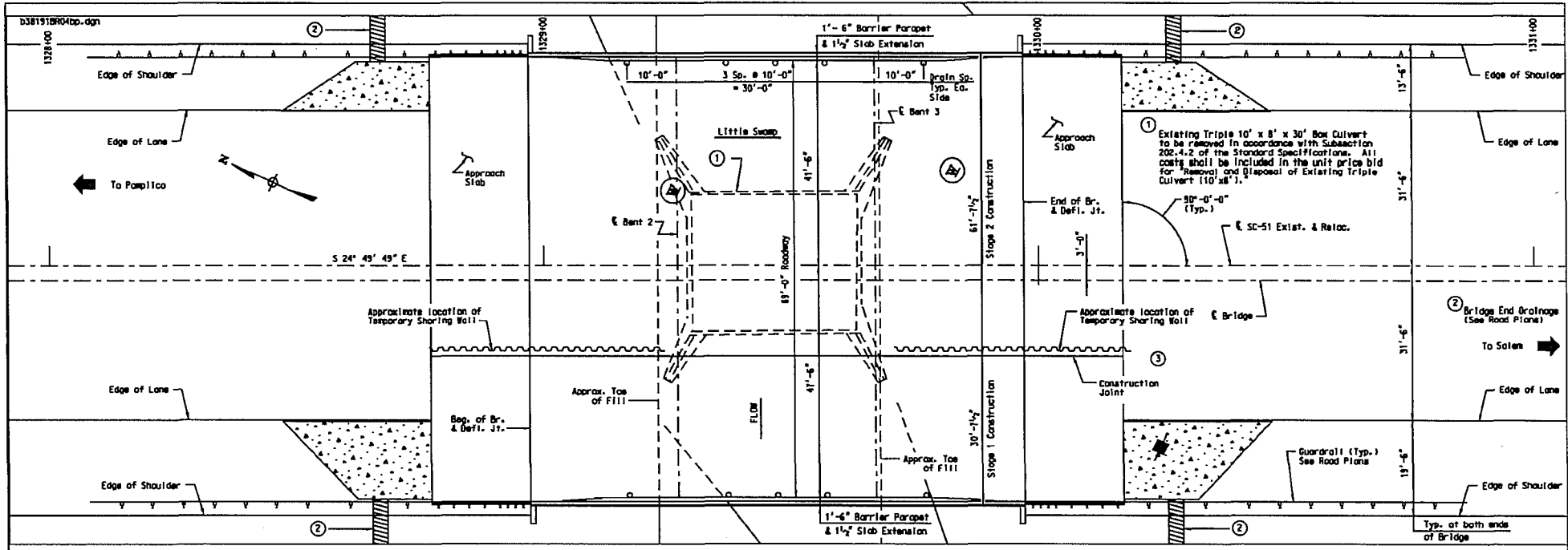


WETLAND BK
 WOODED SWAMP
 0.48 AC FILL IMPACT
 0.05 AC EXCAVATE IMPACT
 0.035 AC CLEAR IMPACT
 (THIS SHEET)



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 95 OF 102

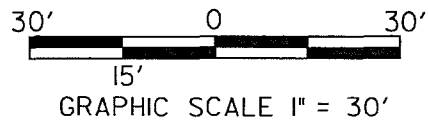
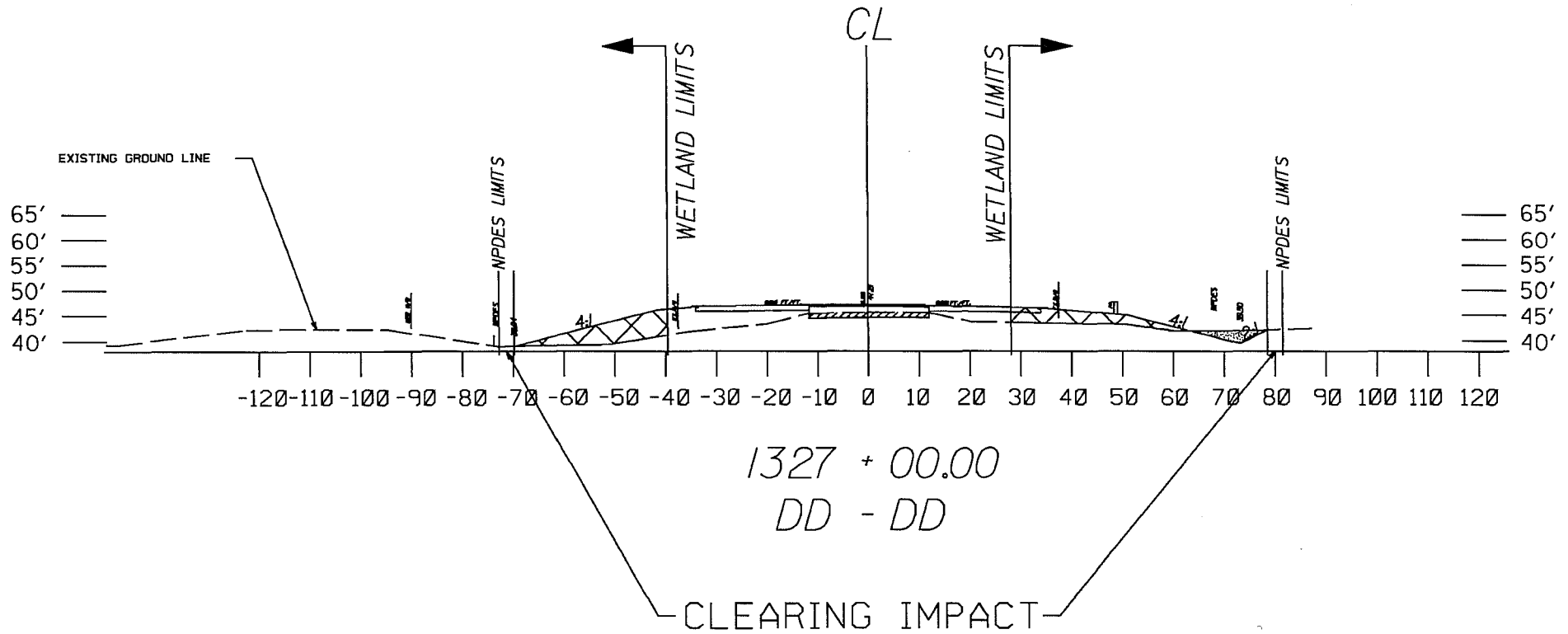





HYDROLOGY DATA
 O.A. = 8.3 sq. mi. = 5280 ac.
 Q50 = 560 cfs
 Vel. 50 = 3.5 ft/sec
 50 Year H.W. Elev. = 41.5 ft.
 Q100 = 1180 cfs
 Vel. 100 = 3.9 ft/sec
 100 Year H.W. Elev. = 41.9 ft.
 2 Year H.W. Elev. = 39.6 ft.

OVERTOPPING FLOOD:
 O = N/A
 Probability < 0.2%

SECTION ALONG C SC-51 RELOC.

APPLICATION #	2011-00311
PROJECT TITLE:	S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION:	FLORENCE COUNTY, S.C.
APPLICANT:	SCDOT
AGENT:	MICHAEL BAKER JR., INC.
DATE:	12/15/2014
SHEET	96 OF 102

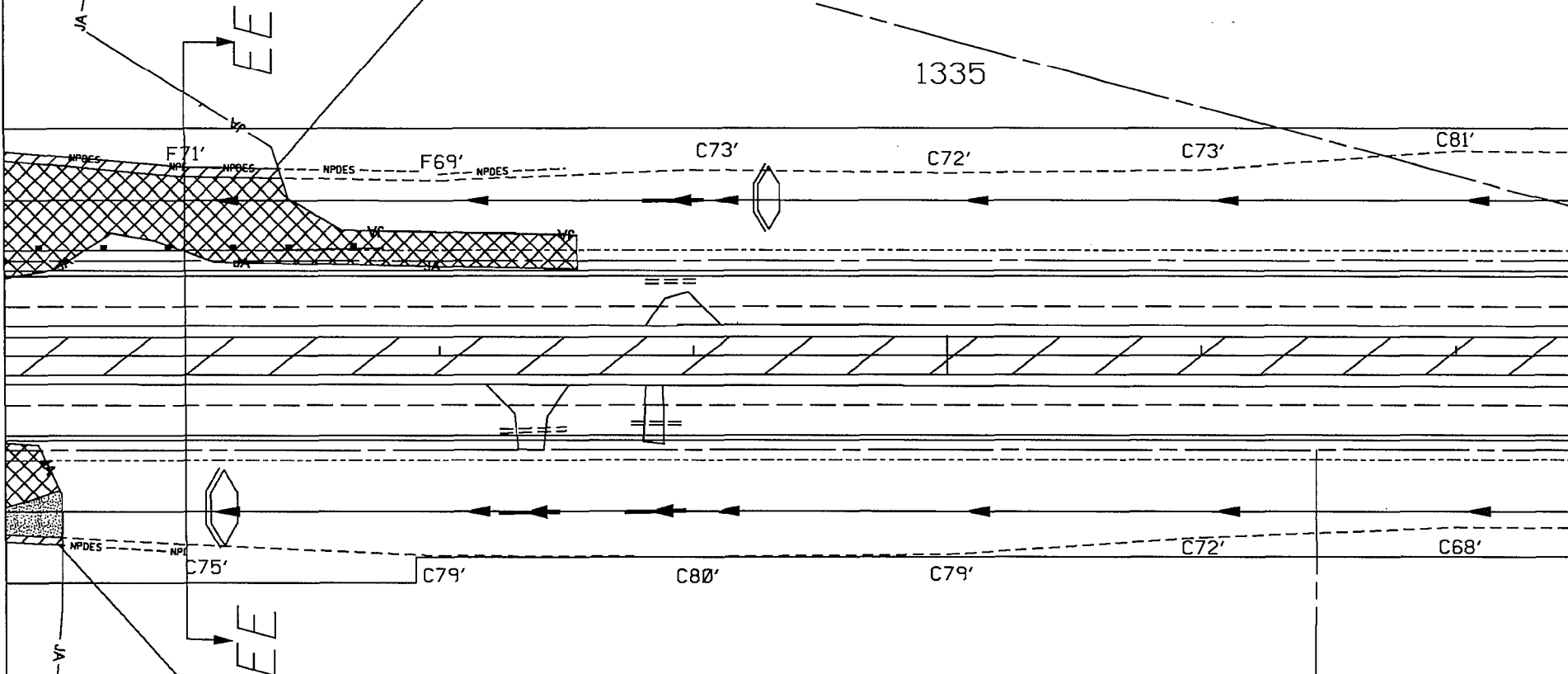


-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

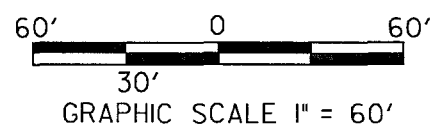
APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 97 OF 102

WETLAND BJ
 WOODED SWAMP
 0.14 AC FILL IMPACT
 0.01 AC CLEAR IMPACT
 (THIS SHEET)

1335

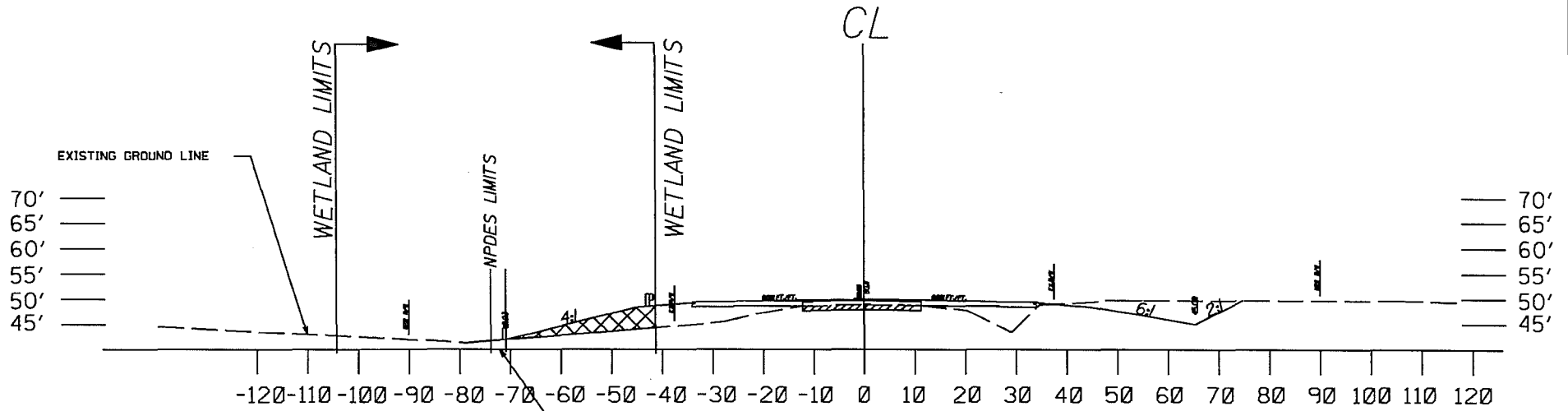


WETLAND BK
 WOODED SWAMP
 0.02 AC FILL IMPACT
 0.01 AC EXCAVATE IMPACT
 0.003 AC CLEAR IMPACT
 (THIS SHEET)



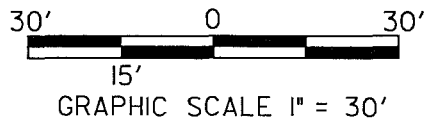
- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS




APPLICATION # 2011-00311
PROJECT TITLE: S.C. 51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 98 OF 102



1332 + 00.00
EE - EE

CLEARING IMPACT

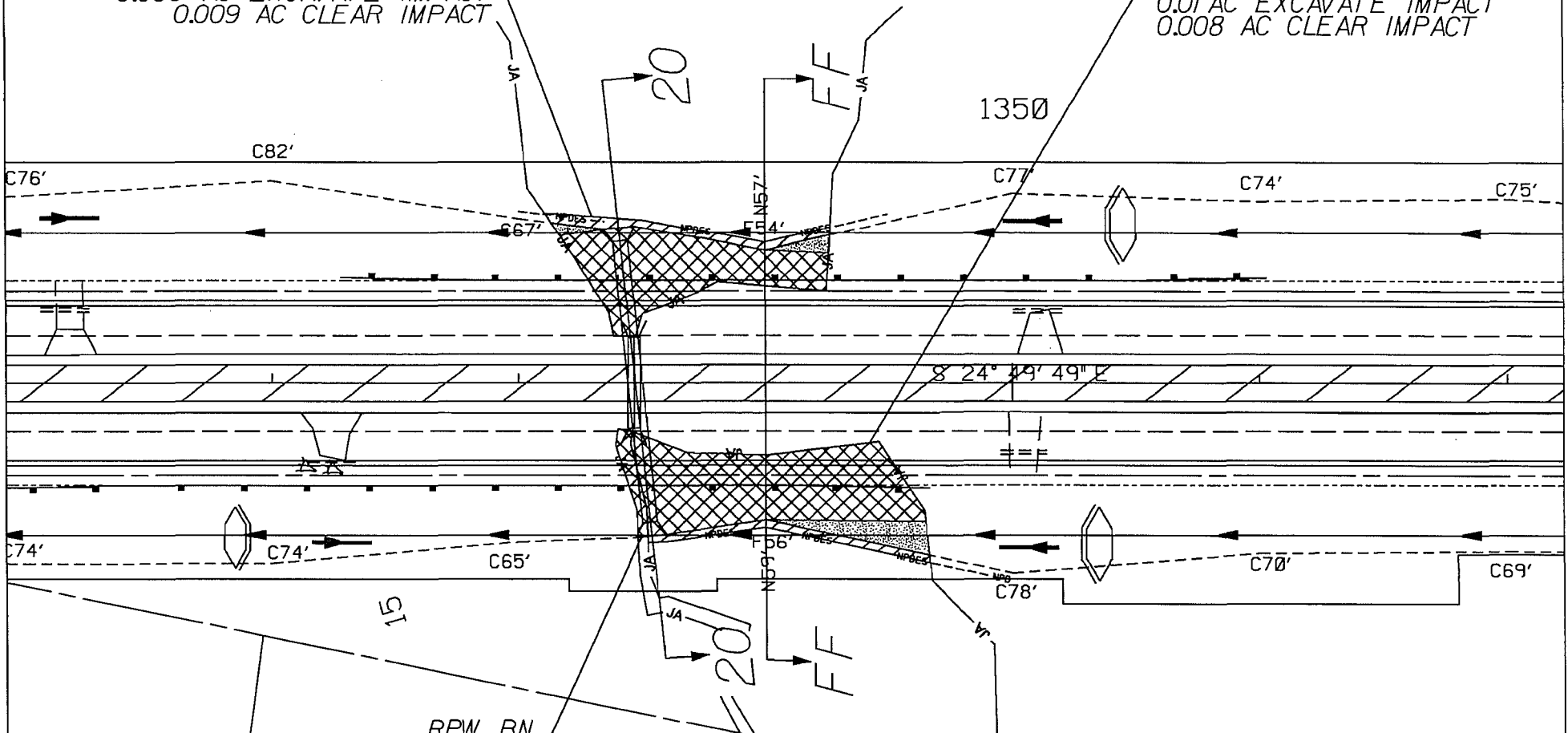





-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
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PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 99 OF 102

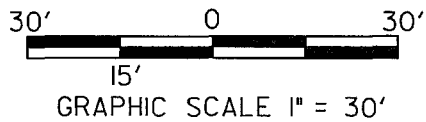
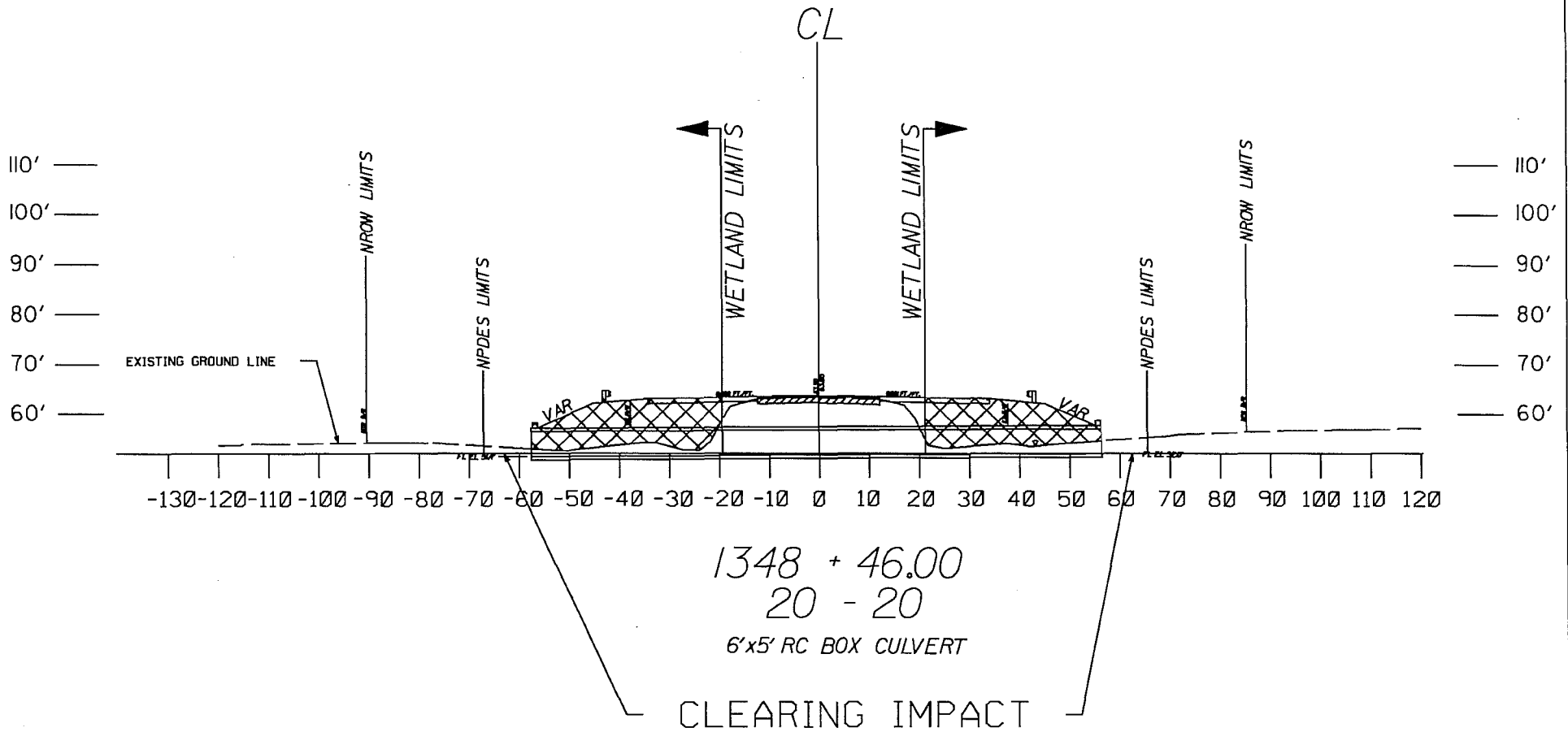
WETLAND BL
 BOTTOMLAND HARDWOOD
 0.05 AC FILL IMPACT
 0.003 AC EXCAVATE IMPACT
 0.009 AC CLEAR IMPACT




WETLAND BM
 BOTTOMLAND HARDWOOD
 0.08 AC FILL IMPACT
 0.01 AC EXCAVATE IMPACT
 0.008 AC CLEAR IMPACT



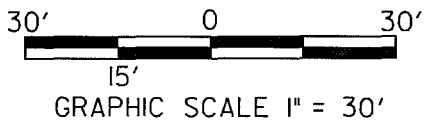
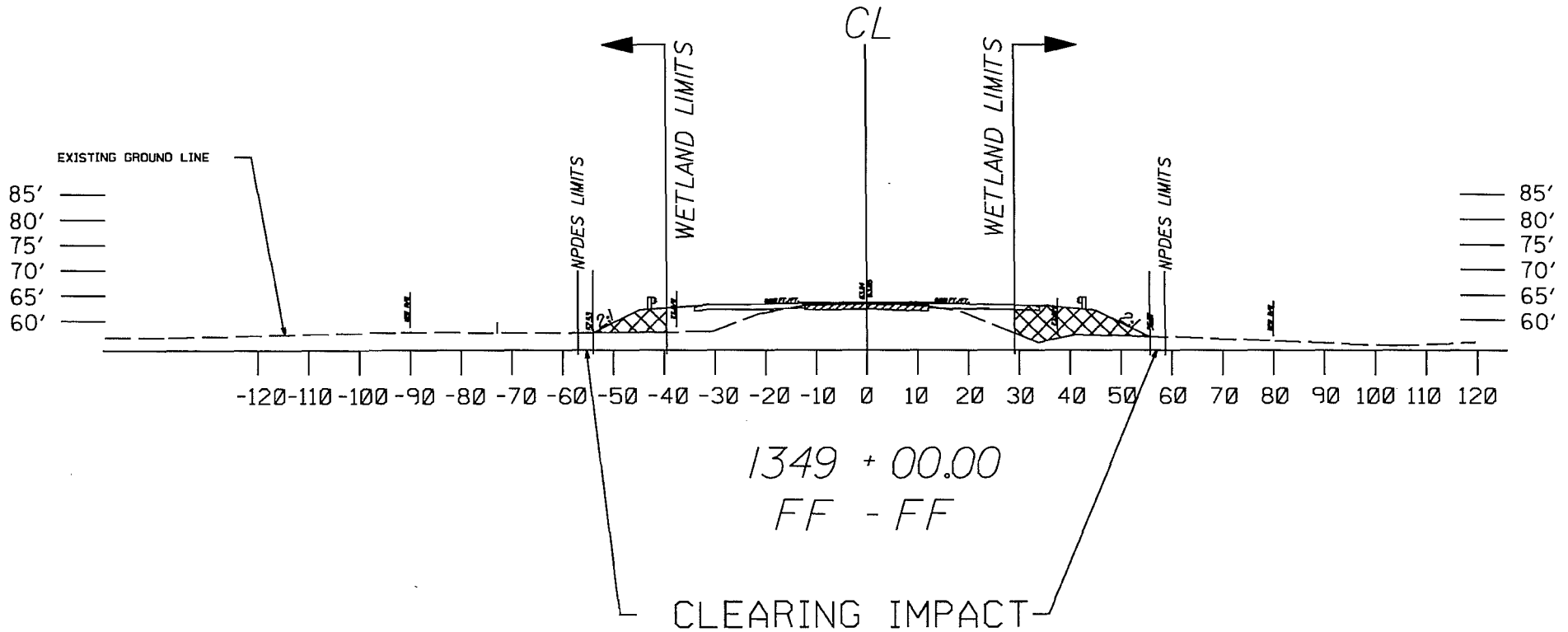
-  - DENOTES FILL IMPACTS
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SHEET 100 OF 102



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SHEET 101 OF 102



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

APPLICATION # 2011-00311
PROJECT TITLE: S.C.51 (PAMPLICO HWY.) WIDENING
PROJECT LOCATION: FLORENCE COUNTY, S.C.
APPLICANT: SCDOT
AGENT: MICHAEL BAKER JR., INC.
DATE: 12/15/2014
SHEET 102 OF 102