

**DEPARTMENT OF THE ARMY
Wilmington District, Corps of Engineers
Post Office Box 1890
Wilmington, North Carolina 28402-1890**

Action ID No. 200330312

January 17, 2003

PUBLIC NOTICE

The North Carolina Department of Transportation, ATTN: Dr. Gregory J. Thorpe, Environmental Management Director, Project Development and Environmental Analysis Branch, 1548 Mail Service Center, Raleigh, North Carolina 27699-1548 has applied for a Department of the Army (DA) permit TO DISCHARGE DREDGED OR FILL MATERIAL INTO THE WATERS AND ADJACENT WETLANDS OF MUD CREEK AND UNNAMED TRIBUTARIES, INCLUDING THREE AND ONE HALF FOOT CREEK, IMPACTING A TOTAL OF 1864 LINEAR FEET OF STREAM CHANNEL, AND 1.11 ACRES OF WETLAND, ASSOCIATED WITH THE ROADWAY WIDENING OF 3.75 MILES OF US HIGHWAY 25 BETWEEN SR 1528 AND JUST NORTH OF I-26, HENDERSON COUNTY, NORTH CAROLINA (TIP NO. R-2214-A, State Project No. 8.1951101).

The following description of the work is taken from data provided by the applicant and from observations made during an onsite visit by a representative of the Corps of Engineers. Plans submitted with the application show the proposed widening of the existing two-lane road to a five-lane, 66-foot-wide curb and gutter facility on existing alignment. The project will be approximately 3.75 miles in length and will include 14-foot outside lanes to accommodate bicycle traffic, 11-foot inside through lanes, and a 12-foot inside turning lane. The proposed widening of US 25 would impact Mud Creek and its small tributaries, and associated wetlands at 18 sites along the road corridor. Eleven small forested and scrub shrub wetland areas adjacent to the existing roadway, ranging in size from less than 0.01 acre to 0.32 acre, would be impacted by the filling and/or mechanized land clearing required in the proposed construction. A total of 0.92 acre of wetlands would be permanently eliminated by proposed filling, 0.03 acre of wetlands would be temporarily impacted by an access fill pad, and 0.16 acre of wetlands would be impacted by land clearing. The project would also result in impacts to 1,864 linear feet of stream channel from pipe and culvert installation as well as channel relocations. These stream channels range in size from unnamed tributaries to Mud Creek that are 2-3 feet wide and less than 6 inches deep, to Mud Creek itself, which is approximately 50 feet wide. Concrete pipes ranging in size from 18 to 60-inch diameters, and box culverts ranging in size from 6 X 6-foot to 12.1 X 5.1-foot would be installed or extended at eight crossings of unnamed tributaries, resulting in proposed stream channel impacts ranging from 19 linear feet up to 210 linear feet per crossing. A 464-foot section of a Mud Creek tributary at Site 3 would be relocated utilizing natural design techniques. As a result, there would be a net loss of 1,400 linear feet of functional stream channel from the proposed work. The existing bridge crossing of Mud Creek would be replaced with a new bridge. Temporary fill causeways impacting 0.14 acre of waters of Mud Creek and 0.03 acre of adjacent wetlands would be required for bridge construction

access. In addition, 360 linear feet of Three and One Half Foot Creek at its confluence with Mud Creek would be temporarily filled and placed into a temporary diversion channel during construction of the bridge over Mud Creek. All temporary fills would be removed, and Three and One Half Foot Creek would be restored to its natural course after project completion.

The applicant proposes to mitigate for both stream and wetland losses by using the North Carolina Wetland Restoration (WRP) in-lieu-fee program. This proposal would provide for NCDOT purchase at a 2:1 ratio (mitigation area to impact area) of 1.90 acres of WRP wetland mitigation and 2,800 feet of stream mitigation within the French Broad River Basin hydrologic unit (06010105). An Environmental Assessment (EA) for the proposed work was approved by the Federal Highway Administration on March 29, 1996 and a Finding of No Significant Impact (FONSI) was signed on March 20, 1997. The purpose of the proposed work is to improve roadway safety and efficiency of traffic flow and access along US 25, and provide part of an improved link between I-40 and I-26 south of Asheville. Plans showing the proposed work are included with this public notice.

The State of North Carolina will review this public notice to determine the need for the applicant to obtain any required State authorization. No Department of the Army (DA) permit will be issued until the coordinated State viewpoint on the proposal has been received and reviewed by this agency, nor will a DA permit be issued until the North Carolina Department of Environment and Natural Resources (NCDENR) has determined the applicability of a Water Quality Certificate as required by PL 92-500.

This application is being considered pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344). 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 public hearing shall state, with particularity, the reasons for holding a public hearing.

The District Engineer has 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 registered property or property listed as being eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently, unknown archeological, scientific, prehistorical, or historical data may be lost or destroyed by work under the requested permit.

The District Engineer, based on available information, is not aware that the proposed activity will affect species, or their critical habitat, designated as endangered or threatened pursuant to the Endangered Species Act of 1973.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts which the proposed activity may have on the public interest requires a careful weighing of all those factors which become relevant in each particular case. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so

the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors which may be relevant to the proposal must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards and flood plain values (in accordance with Executive Order 11988), land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

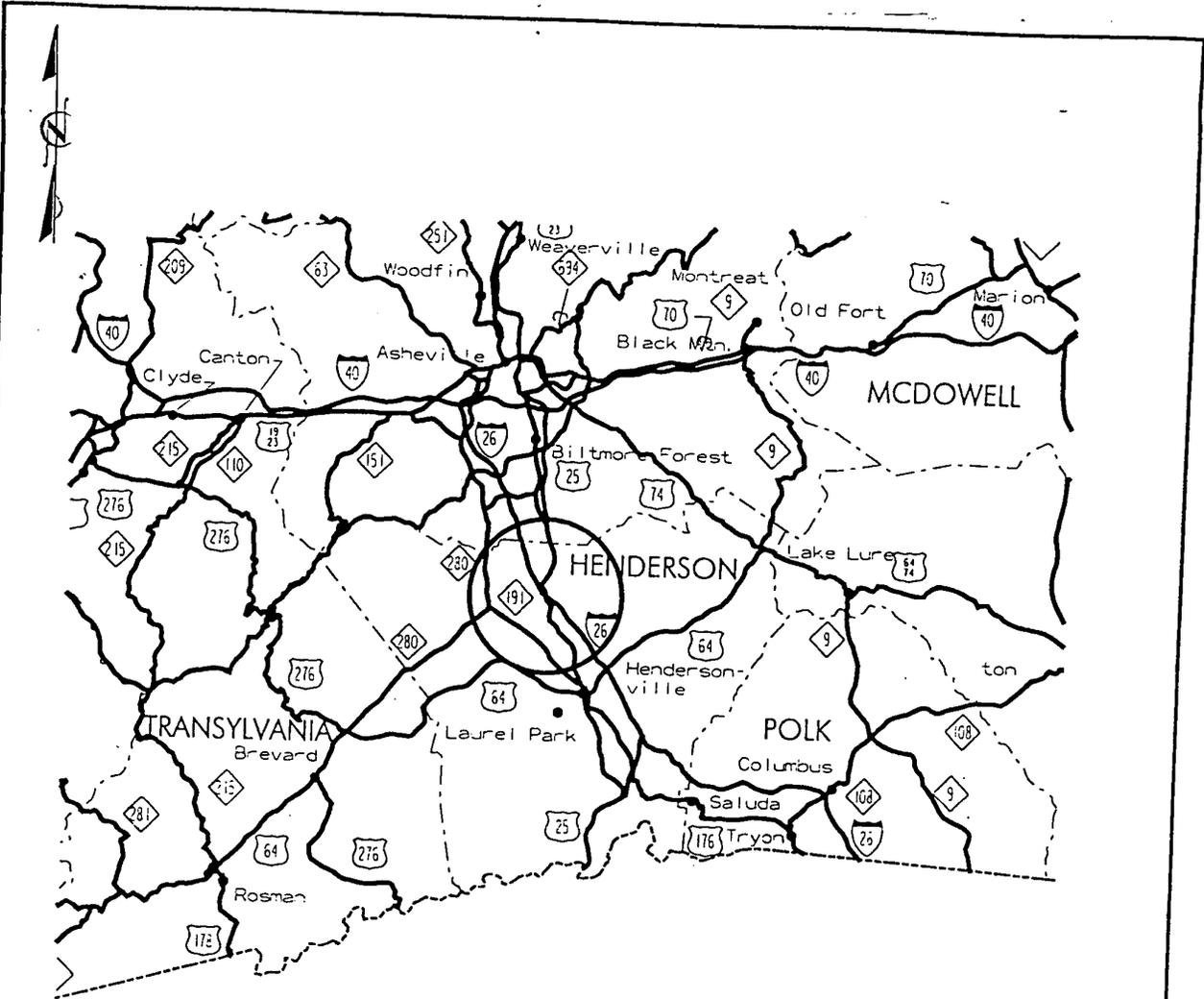
The Corps of Engineers is soliciting comments from the public; Federal, State and local agencies and officials; Indian Tribes and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. 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 (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Generally, the decision whether to issue this Department of the Army (DA) permit will not be made until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act. The NCDWQ considers whether or not the proposed activity will comply with Sections 301, 302, 306, and 307 of the Clean Water Act. The application and this public notice for the Department of the Army (DA) permit serves as application to the NCDWQ for certification.

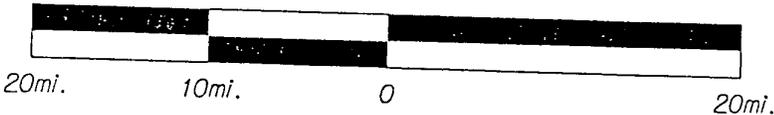
Additional information regarding the Clean Water Act certification may be reviewed at the offices of the 401 Wetlands Certification Unit, North Carolina Division of Water Quality (NCDWQ), 2321 Crabtree Blvd., Raleigh, North Carolina 27604. Copies of such materials will be furnished to any person requesting copies upon payment of reproduction costs.

All persons desiring to make comments regarding the application for Clean Water Act certification should do so in writing delivered to the North Carolina Division of Water Quality Wetlands Section, 1621 Mail Service Center, Raleigh, North Carolina 27626-0621, on or before February 11, 2003, Attention: Mr. John Dorney.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Mr. John W. Hendrix, until 5:00 p.m., February 18, 2003, or telephone (828) 271-7980, extension 7.

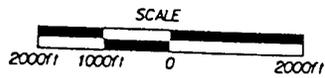
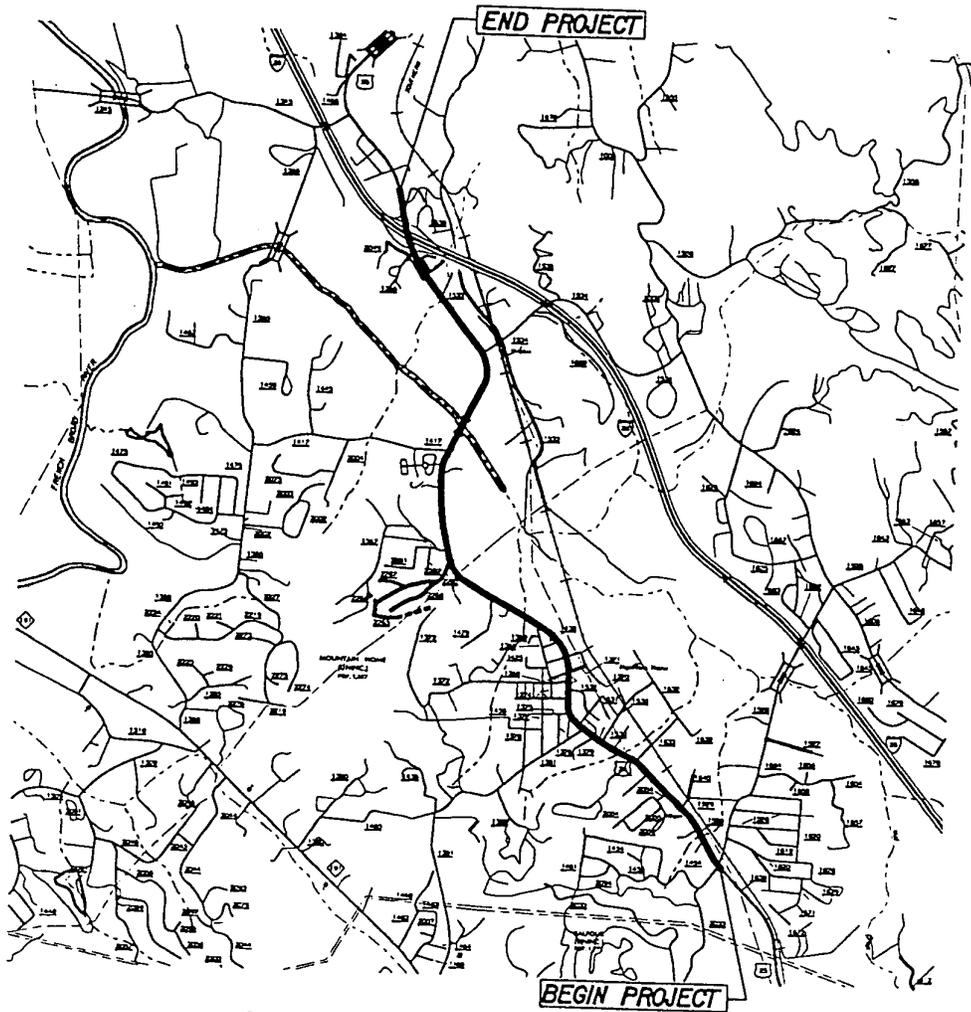


SCALE



VICINITY MAP

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 B. 1951101 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 1 OF 37 SEPTEMBER 25, 2000



VICINITY MAP

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE ROAD).

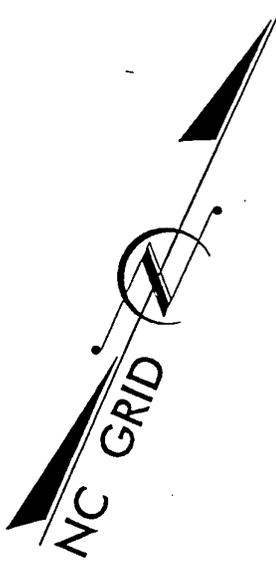
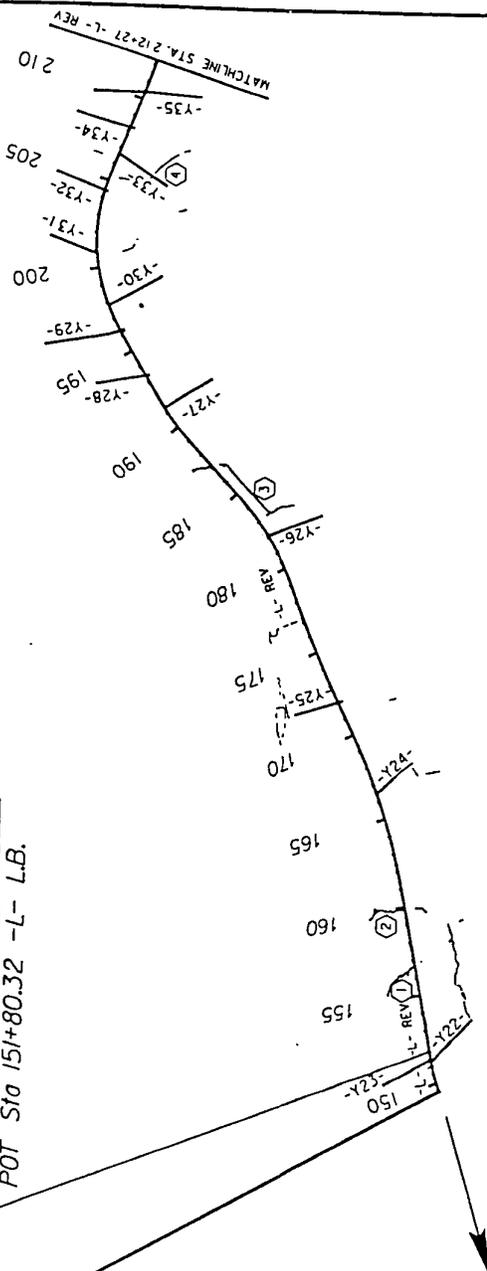
SCALE AS SHOWN

SHEET 2 OF 37

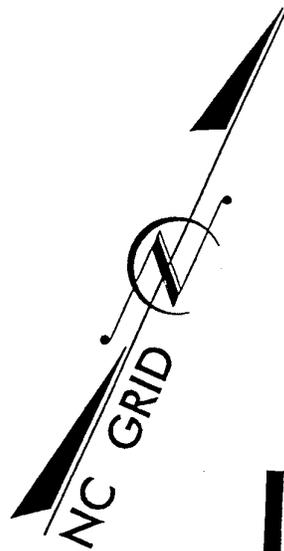
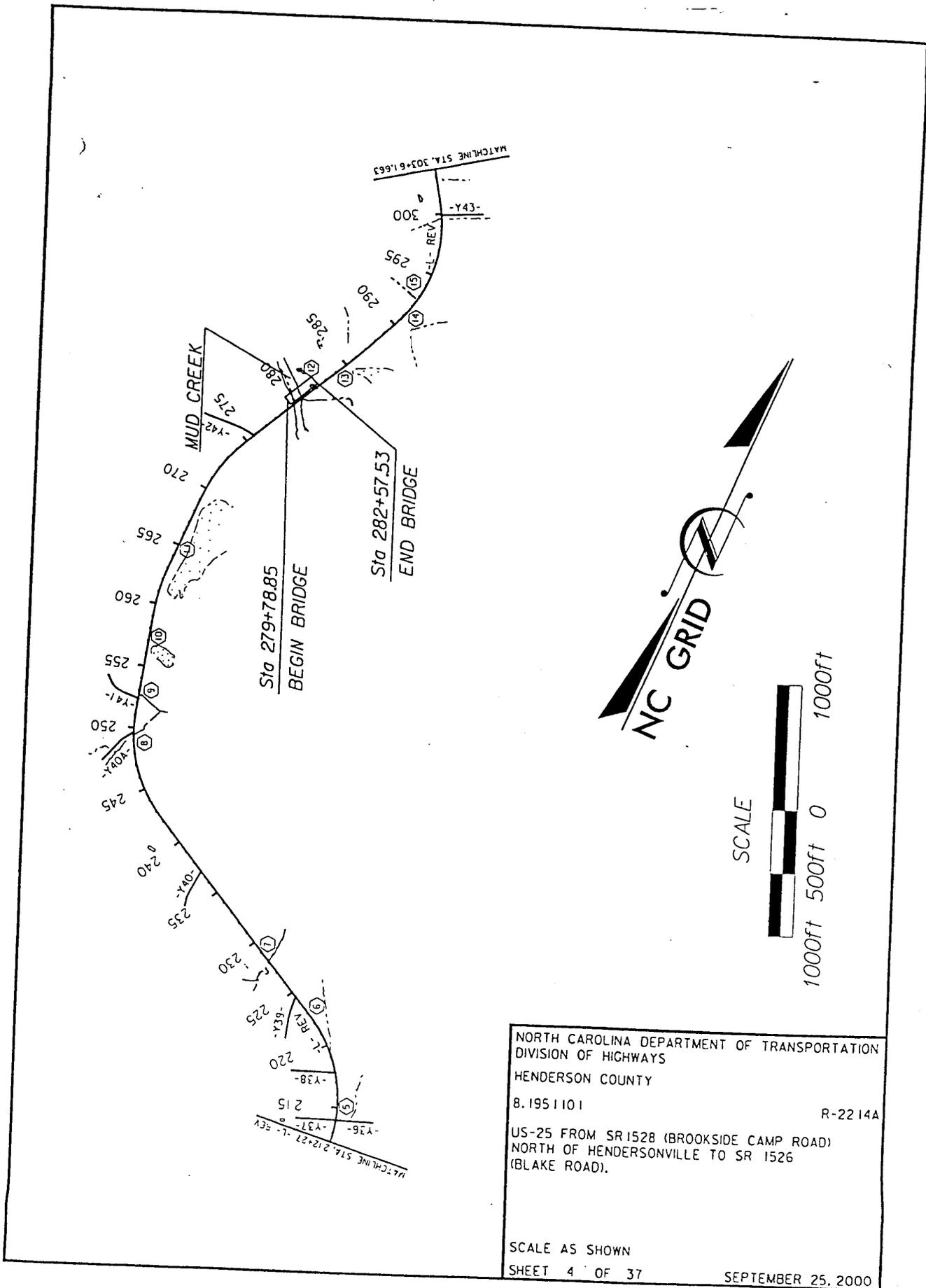
SEPTEMBER 25, 2000

BEGIN STATE PROJECT R-22/4A

PC Sta 151+80.32 -L- REV L.A.±
POT Sta 151+80.32 -L- L.B.



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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8.1951101 R-22/4A
US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR 1526
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SCALE AS SHOWN
SHEET 3 OF 37 SEPTEMBER 25, 2000



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
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 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 4 OF 37
 SEPTEMBER 25, 2000

STA 352+49.96 -L- END STATE PROJECT R-2214A
 STA 352+49.96 -L- END F. A. PROJECT STP-25(D)

TS Sta 320+47.33 -L- L.A.=
 POT Sta 319+94.58 -L- REV L.B.

Sta 330+58.54
 BEGIN BRIDGE

ST Sta 352+18.26 -L- REV L.A.=
 ST Sta 352+18.26 -L- L.B.

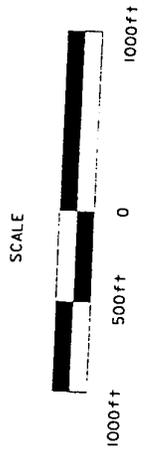
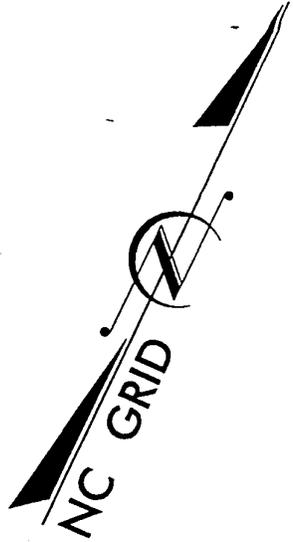
Sta 334+18.59
 END BRIDGE

STATE PROJECT I-2001
 BY OTHERS

I-26 TO ASHEVILLE

I-26 TO HENDERSONVILLE

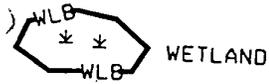
MATCHLINE STA. 303+61.663



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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 HENDERSON COUNTY
 8.1951101
 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 5 OF 37
 SEPTEMBER 25, 2000

LEGEND

— WLB — WETLAND BOUNDARY



DENOTES FILL IN WETLAND

DENOTES FILL IN SURFACE WATER

DENOTES FILL IN SURFACE WATER (POND)

DENOTES TEMPORARY FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY FILL IN SURFACE WATER

DENOTES MECHANIZED CLEARING

← ← FLOW DIRECTION

— TB — TOP OF BANK

--- WE --- EDGE OF WATER

— C — PROP. LIMIT OF CUT

— F — PROP. LIMIT OF FILL

▲ PROP. RIGHT OF WAY

--- NG --- NATURAL GROUND

— PL — PROPERTY LINE

— TOE — TEMP. DRAINAGE EASEMENT

— POE — PERMANENT DRAINAGE EASEMENT

— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY

— EPB — EXIST. ENDANGERED PLANT BOUNDARY

--- ∇ --- WATER SURFACE

X X X LIVE STAKES

BOULDER

— COIR FIBER ROLLS

ADJACENT PROPERTY OWNER OR PARCEL NUMBER

PROPOSED BRIDGE

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

(DASHED LINES DENOTE EXISTING STRUCTURES)

SINGLE TREE

WOODS LINE

DRAINAGE INLET

ROOTWAD

VANE

RIP RAP

RIP RAP ENERGY DISSIPATOR BASIN

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

HENDERSON COUNTY

B. 1951101

R-2214A

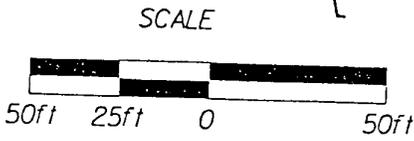
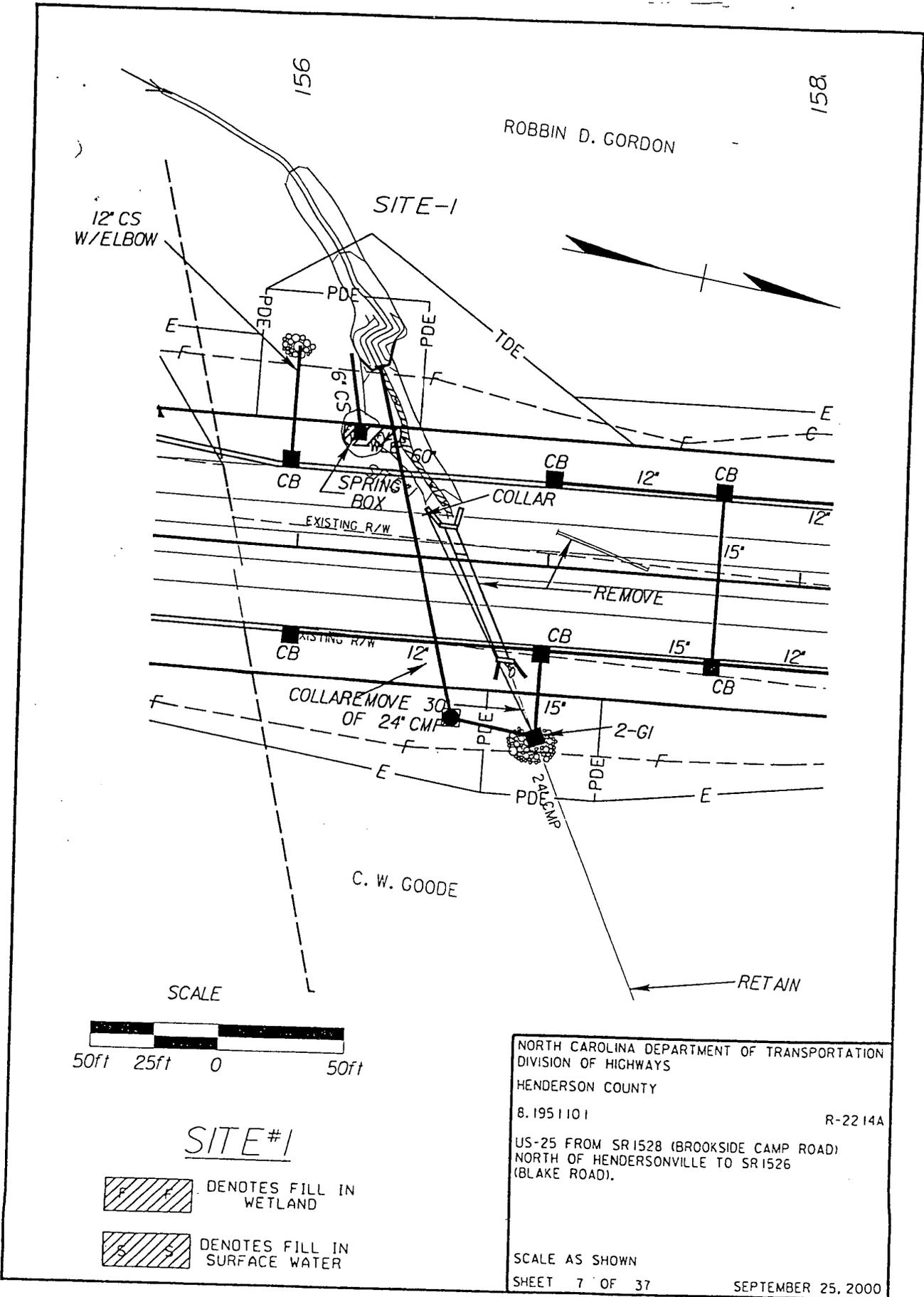
US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)

(BLAKE ROAD).

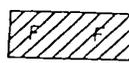
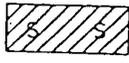
SCALE AS SHOWN

SHEET 6 OF 37

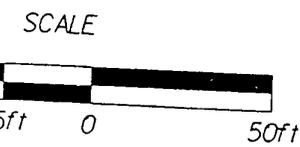
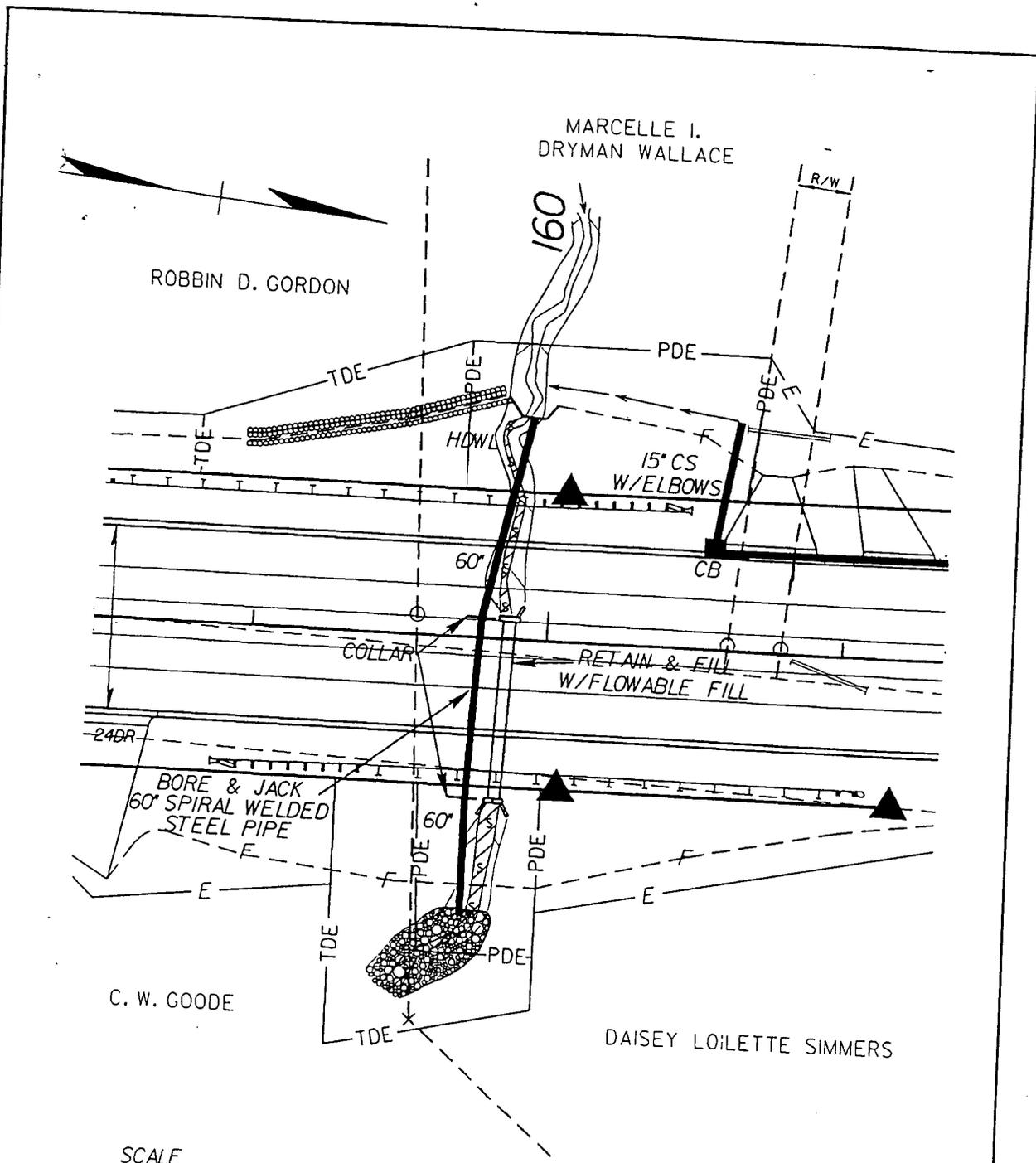
SEPTEMBER 25, 2000



SITE #1

-  DENOTES FILL IN WETLAND
-  DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 7 OF 37 SEPTEMBER 25, 2000

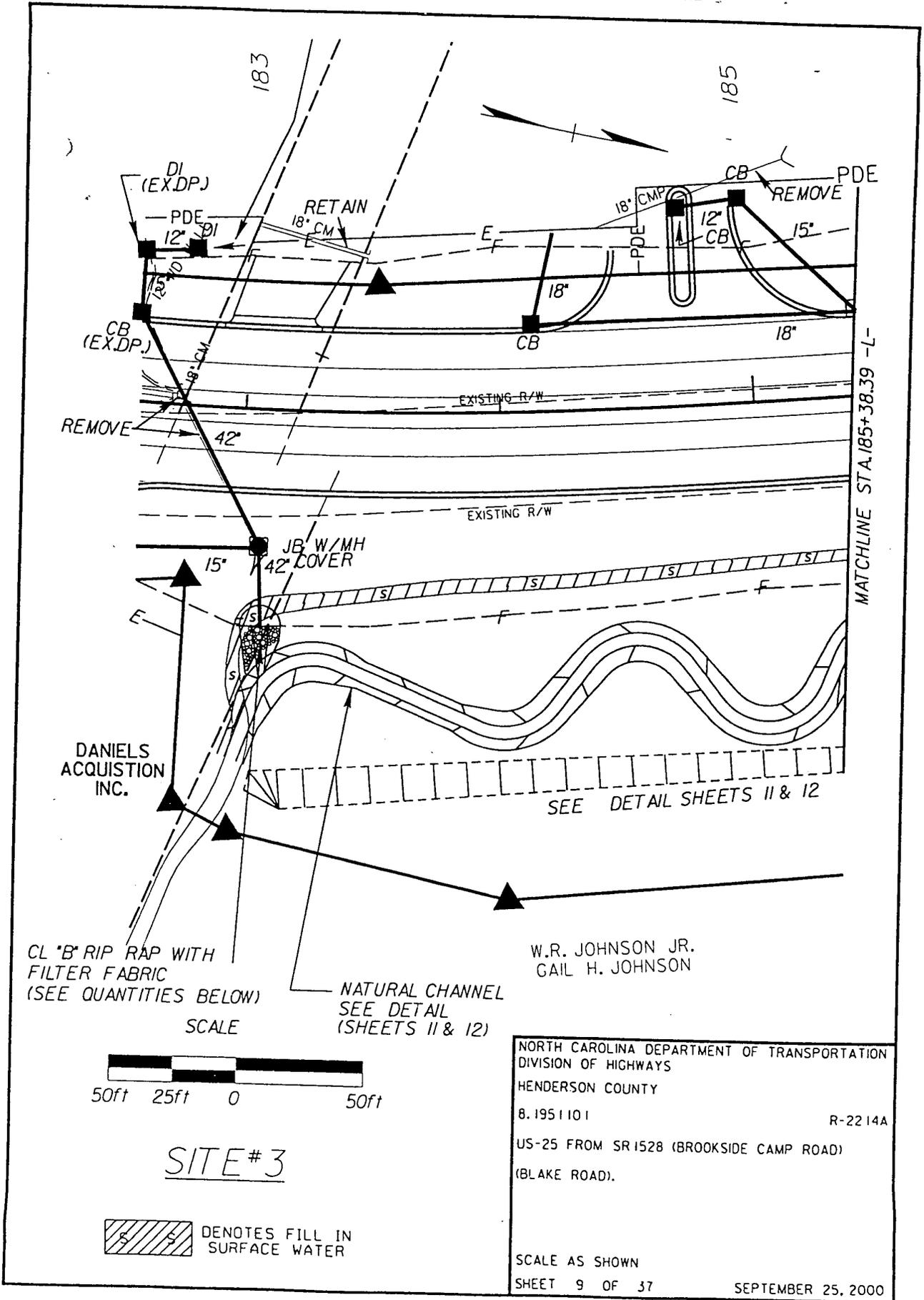


SITE#2

 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101
 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

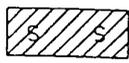
SCALE AS SHOWN
 SHEET 8 OF 37
 REV DECEMBER 13, 2000



CL *B* RIP RAP WITH
FILTER FABRIC
(SEE QUANTITIES BELOW)

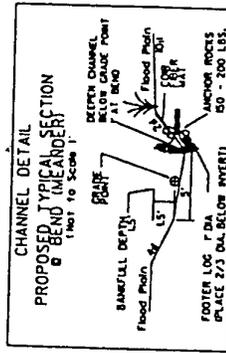
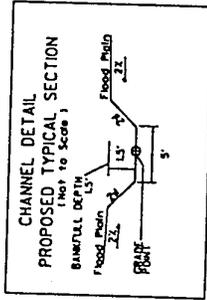
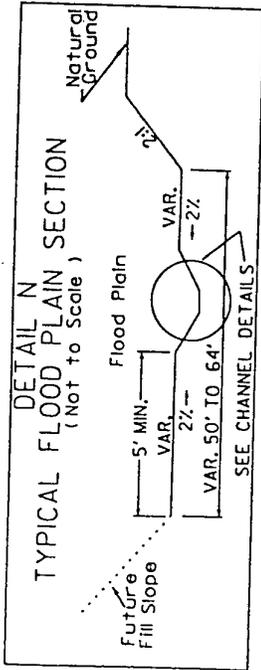


SITE #3

 DENOTES FILL IN SURFACE WATER

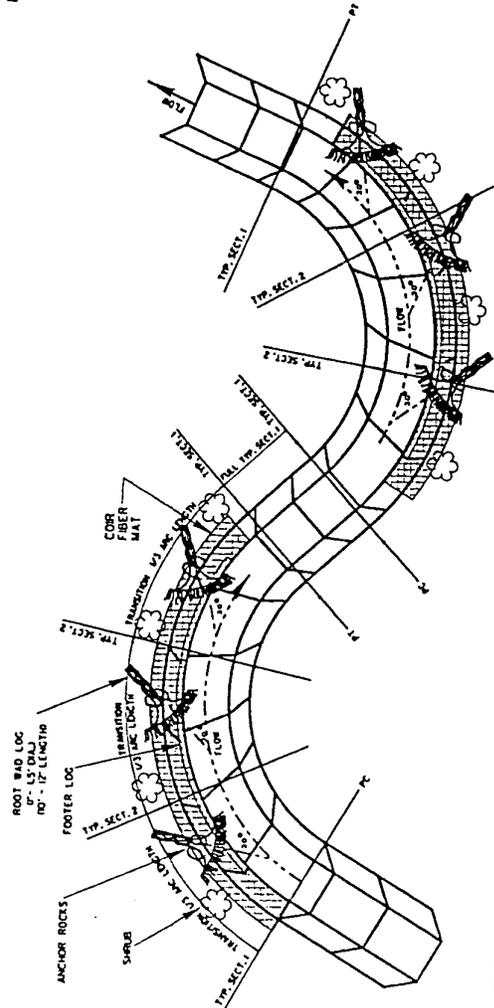
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
8.1951101 R-2214A
US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
(BLAKE ROAD).
SCALE AS SHOWN
SHEET 9 OF 37
SEPTEMBER 25, 2000

NATURAL CHANNEL DESIGN TYPICALS



TYPICAL SECTION 1 BETWEEN BENDS

TYPICAL SECTION 2 AT BENDS



CHANNEL PLAN VIEW
SITE 3 - DETAIL SHEET

- NOTES:
- NUMBER OF ROOTRAIDS INSTALLED TO BE DETERMINED ON SITE
 - ROOTRAIDS TO BE SPACED 4x DIAMETER OF ROOT BASE
 - FOOTER LOG ANCHOR ROCK TO BE PLACED ON THE DOWNSTREAM END OF EACH FOOTER LOG SO THAT IT IS LEANING AGAINST THE LOG ON THE SIDE AWAY FROM THE CHANNEL.
 - WHEN BACKFILLING OVER AND AROUND FOOTER LOGS, ROOTRAID LOGS AND ANCHOR ROCKS FINAL SECTIONS, ALL COMPONENTS INCLUDING JOINTS, CONNECTIONS AND GAPS.
 - PLANTINGS SHOULD BE PLACED ABOVE BANKFULL DEPTH
 - FOR DESIGN SEE PLANSHEET 7

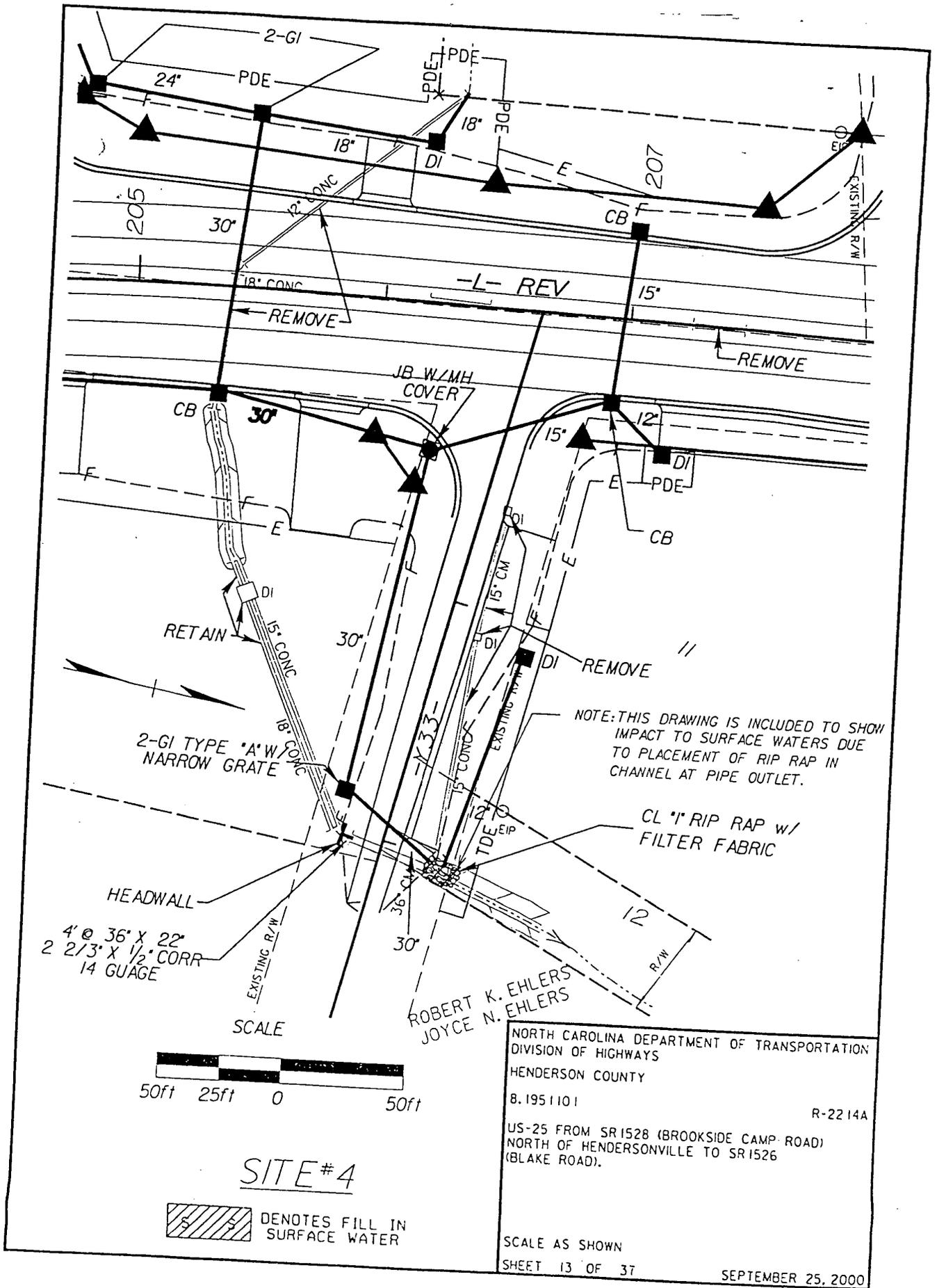
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
R-1951101
R-22144
US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR1526
(BLAKE ROAD).

SCALE AS SHOWN
SHEET 11 OF 37
SEPTEMBER 25, 2000

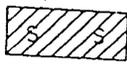
ITEM	EXISTING STREAM	REFERENCE STREAM	PROPOSED RELOCATION
STREAM NAME	TRIBUTARY	TO MUD CREEK	
DRAINAGE AREA (DA)	330 ac	135 ac	330 ac
CHANNEL SLOPE (S)	0.0031	0.0109	0.0057
BANKFUL WIDTH (W_{bkr})	8.60 ft	8.90 ft	11.0 ft
MEAN DEPTH (d_{bkr})	1.45 ft	0.92 ft	1.09 ft
BANKFUL X-SECTION AREA (A_{bkr})	12.44 ft ²	8.15 ft ²	12.0 ft ²
WIDTH/DEPTH RATIO (W_{bkr}/d_{bkr})	5.9	9.7	10.1
Maximum DEPTH (d_{mbkr})	1.82 ft	1.24 ft	1.50 ft
WIDTH Flood-Prone Area (W_{fpo})	15.9 ft	14.6 ft	55 ft
ENTRENCHMENT RATIO (ER)	1.85	1.64	5.0
CHANNEL MATERIALS: D50	1.4 mm	21.0 mm	1.4 mm
SINUOSITY (K)	1.00	1.11	1.28
MEANDERS:			
AVG. LENGTH	STRAIGHT	30 ft	110 ft
AVG. AMPLITUDE	0 ft	5 ft	37 ft
AVG. RADIUS	0 ft	22 ft	25 ft
DISCHARGES:			
0 BANKFULL	41 cfs	27 cfs	41 cfs
Q2	80 cfs	50 cfs	80 cfs
Q10	230 cfs	140 cfs	230 cfs
VELOCITY:			
V BANKFULL	3.3 fps	3.3 fps	3.4 fps
V2	3.6 fps	3.8 fps	4.1 fps
V10	4.9 fps	5.3 fps	7.3 fps
CLASSIFICATION	G5	G 4c	C4

STREAM DESCRIPTION AND
CLASSIFICATION DATA
SITE 3

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
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8.1951101
R-22.14A
US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR1526
(BLAKE ROAD).



SITE #4

 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY

8.1951101

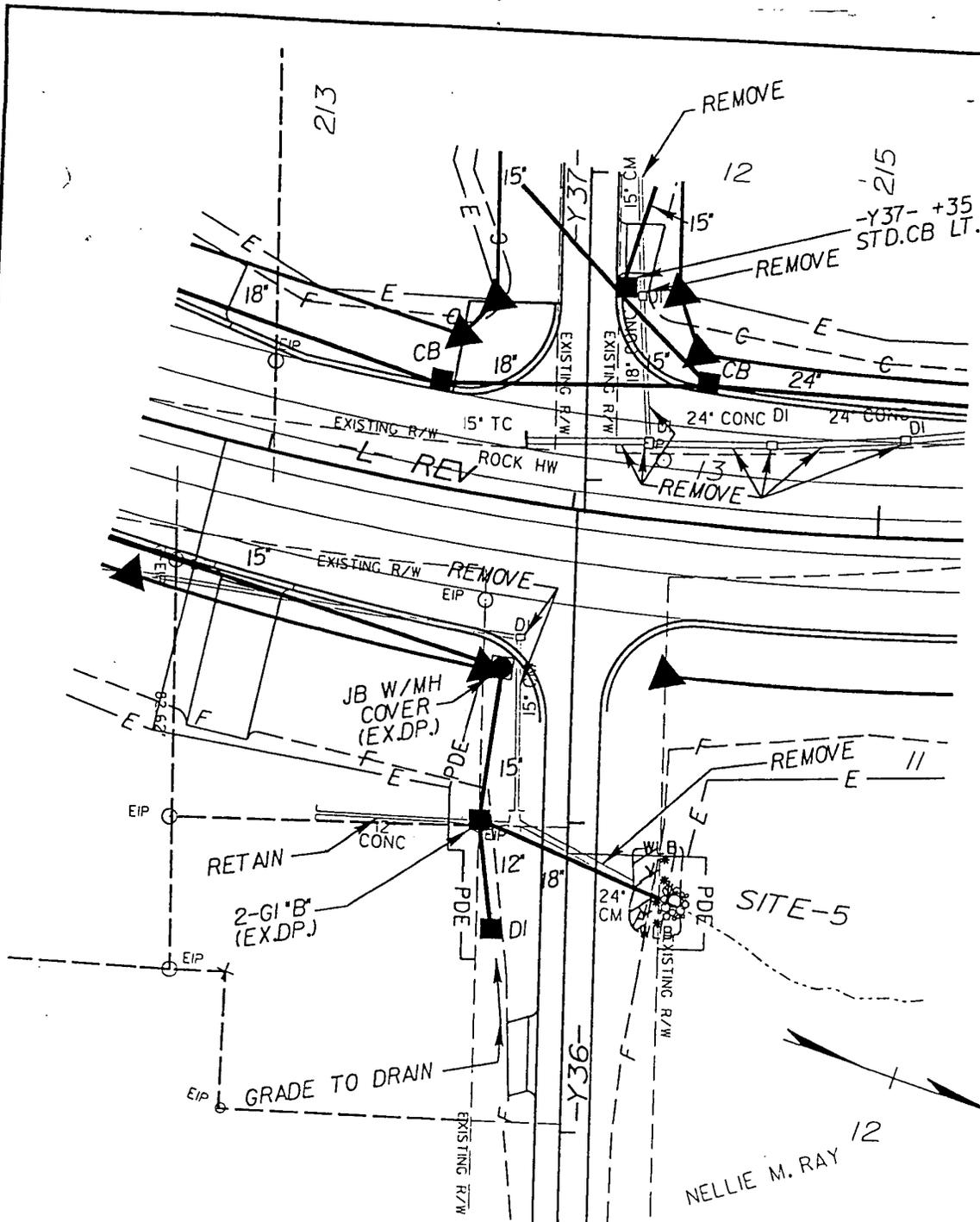
R-2214A

US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR1526
(BLAKE ROAD).

SCALE AS SHOWN

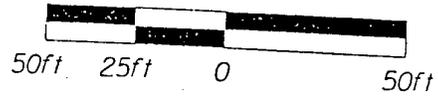
SHEET 13 OF 37

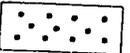
SEPTEMBER 25, 2000



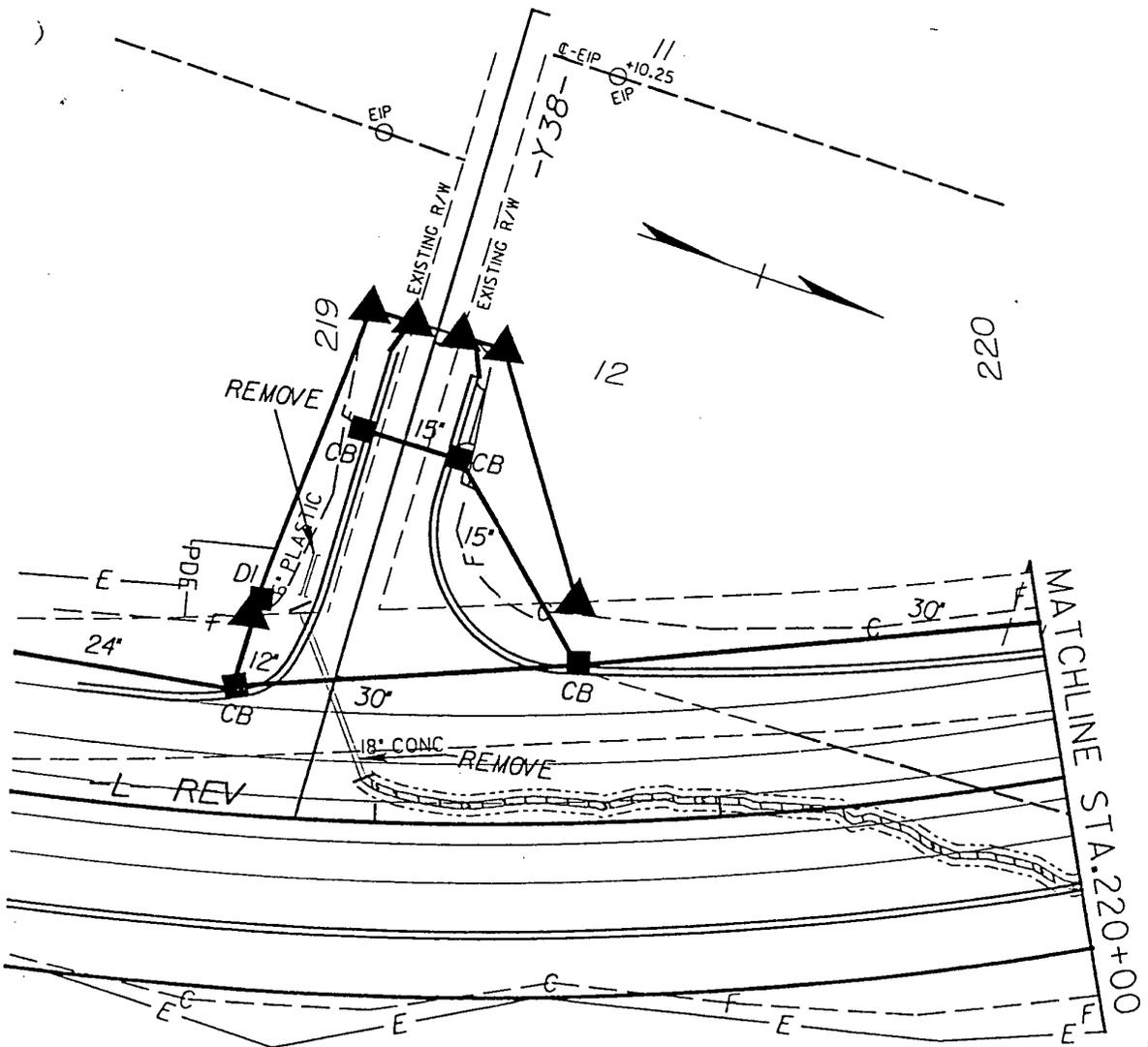
SITE #5

SCALE



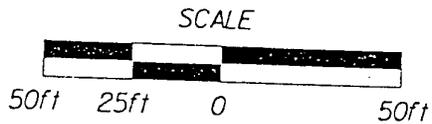
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101
 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 14 OF 37
 SEPTEMBER 25, 2000



SITE #6

NELLIE M. RAY



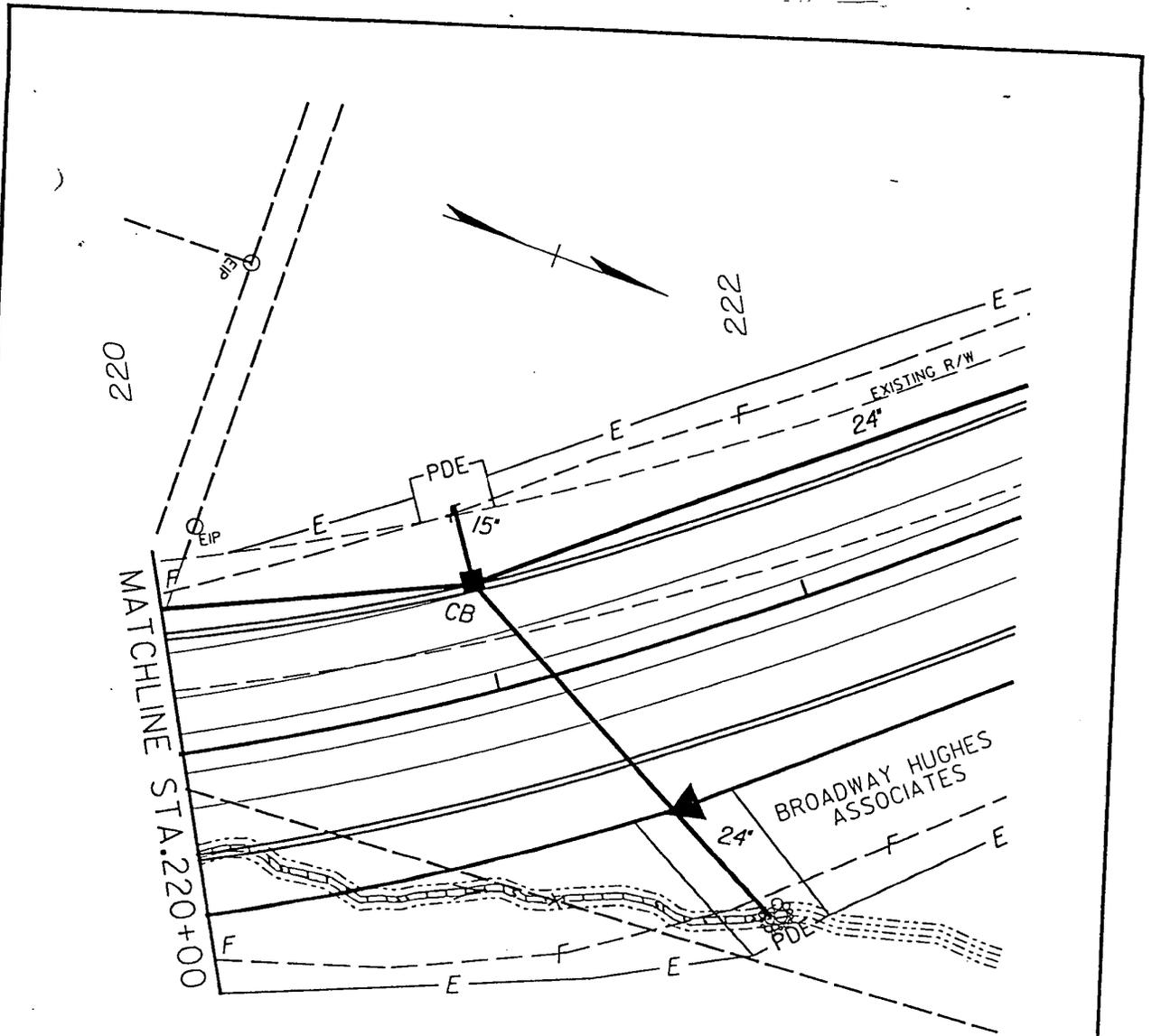
 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

SCALE AS SHOWN

SHEET 15 OF 37

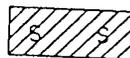
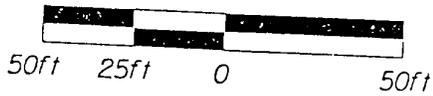
SEPTEMBER 25, 2000



NELLIE M. RAY

SITE #6

SCALE



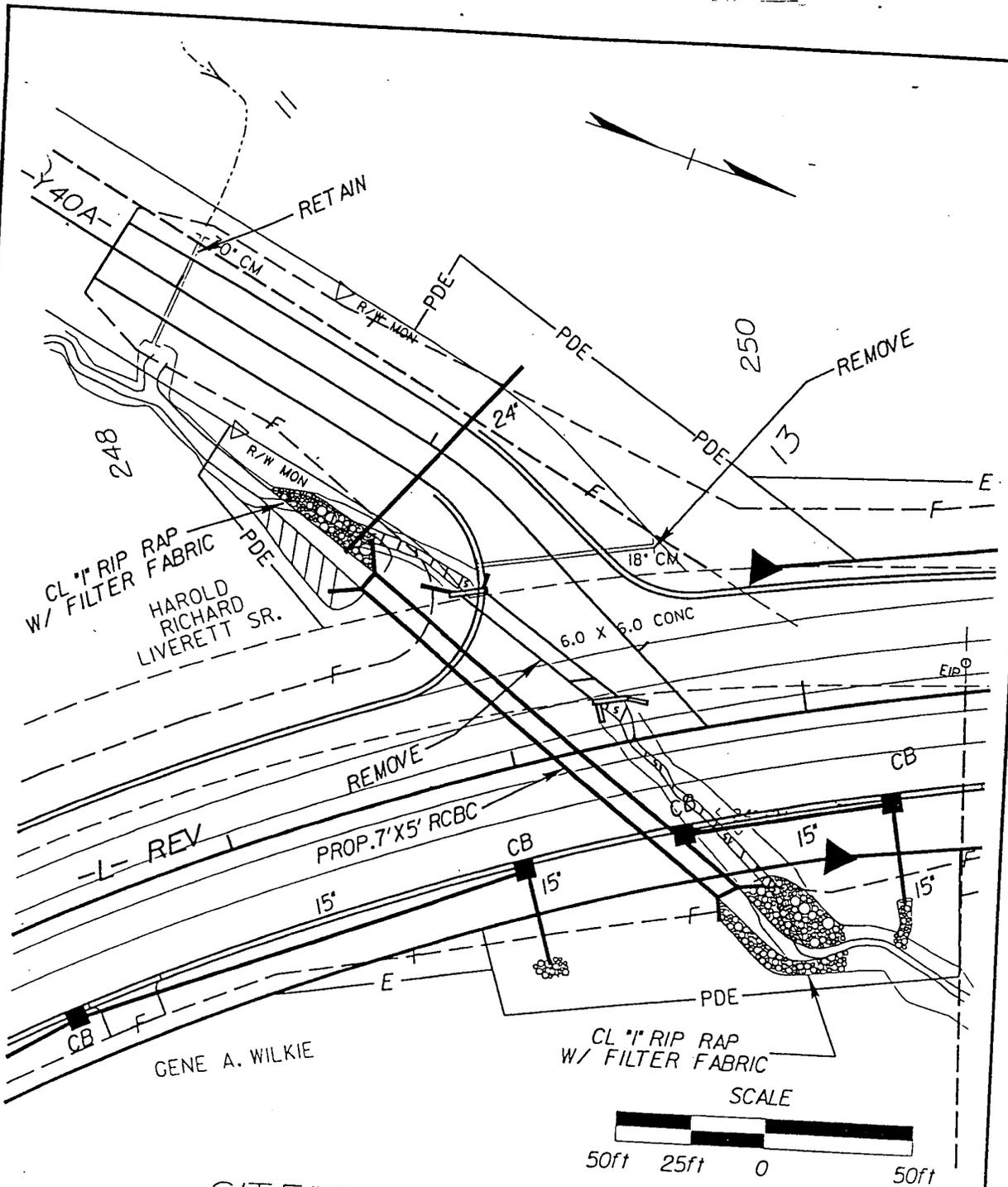
DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

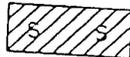
SCALE AS SHOWN

SHEET 16 OF 37

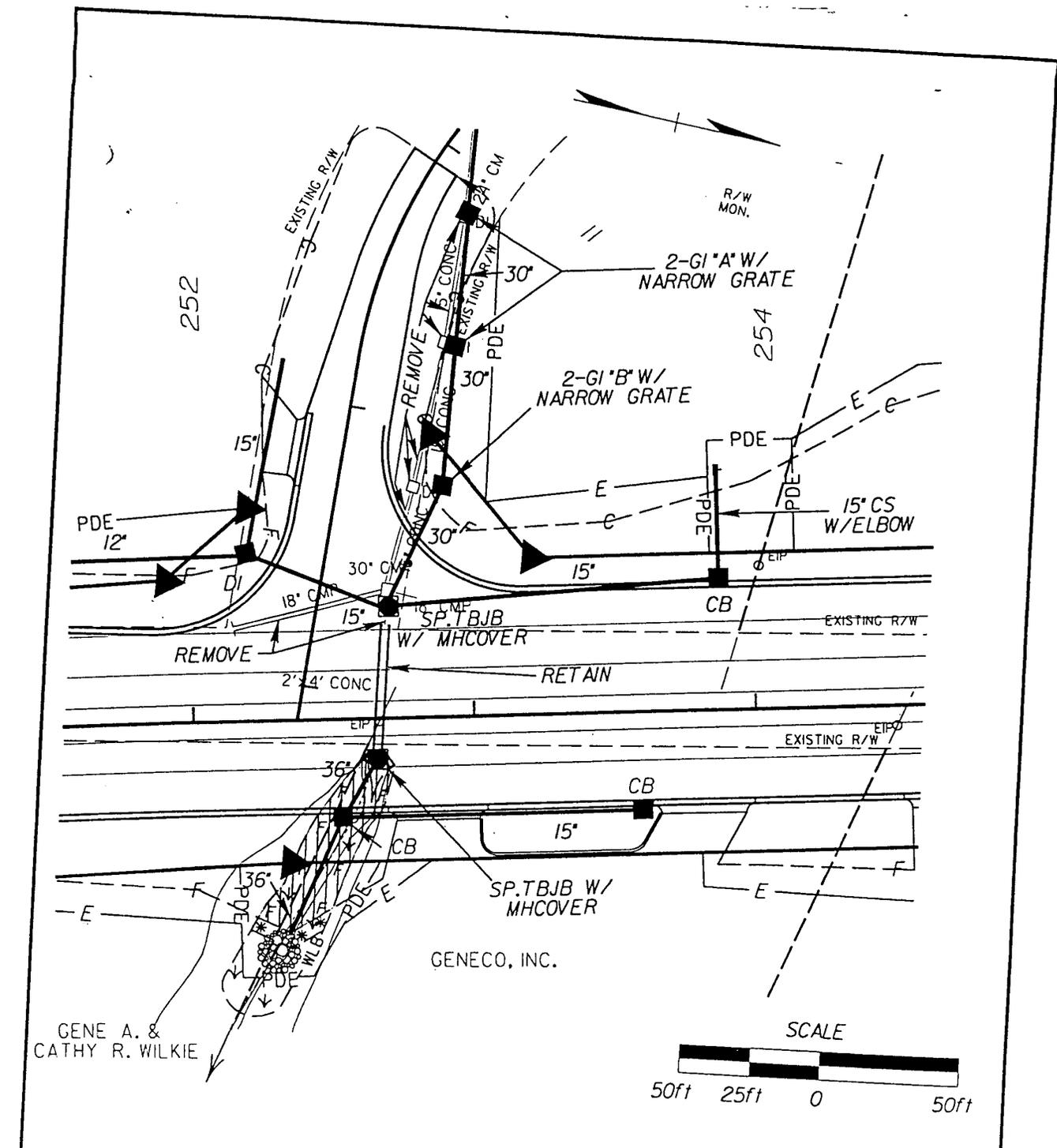
SEPTEMBER 25, 2000



SITE #8

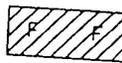
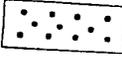
 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 18 OF 37 SEPTEMBER 25, 2000

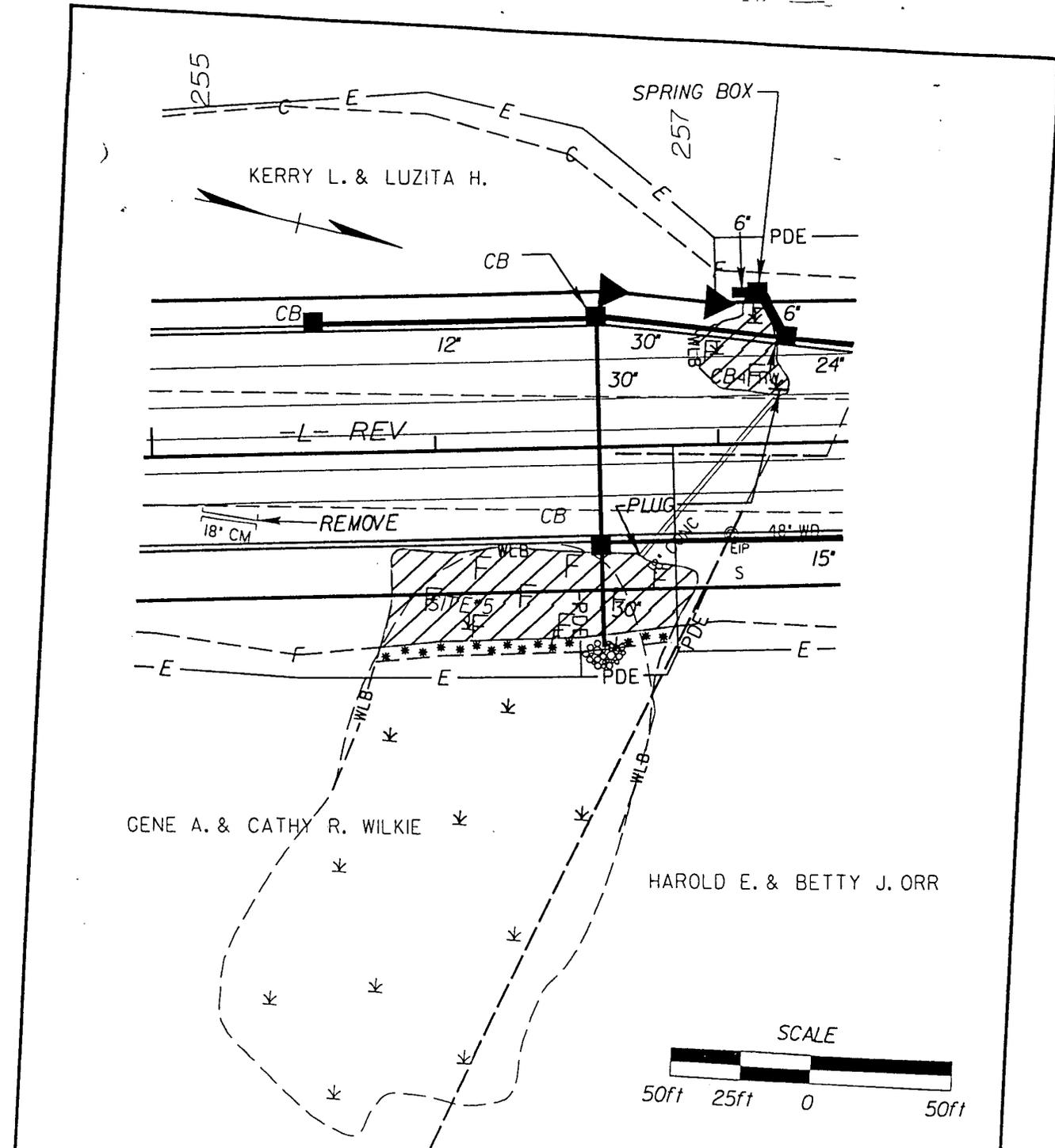


GENE A. & CATHY R. WILKIE

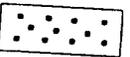
SITE #9

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 19 OF 37 SEPTEMBER 25, 2000

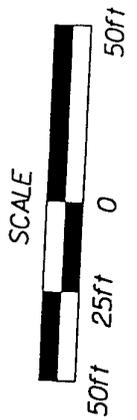
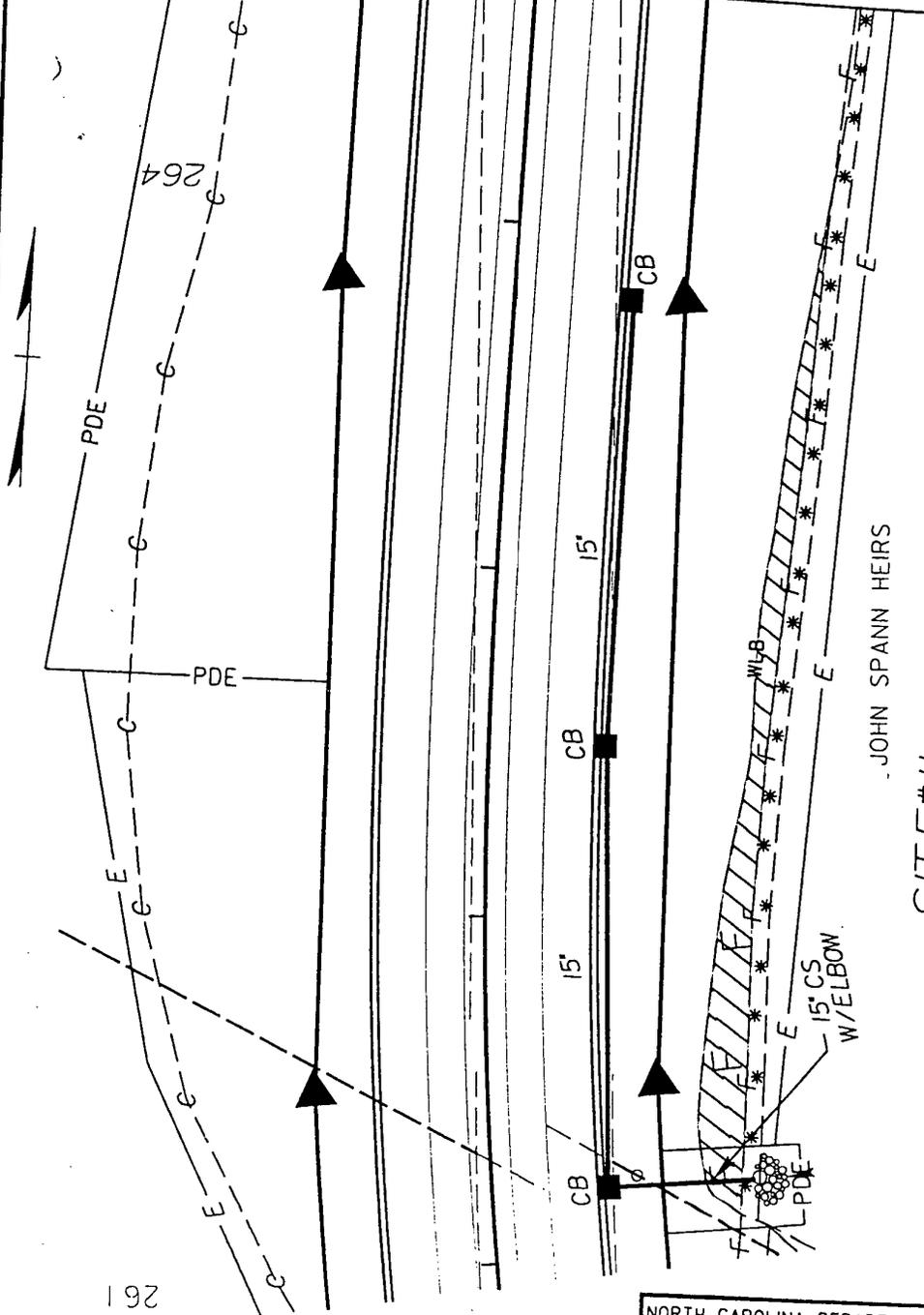


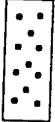
SITE #10

-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 20 OF 37
 SEPTEMBER 25, 2000

MATCHLINE STA. 264+69 -L-



 DENOTES FILL IN WETLAND
 DENOTES MECHANIZED CLEARING

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101
 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

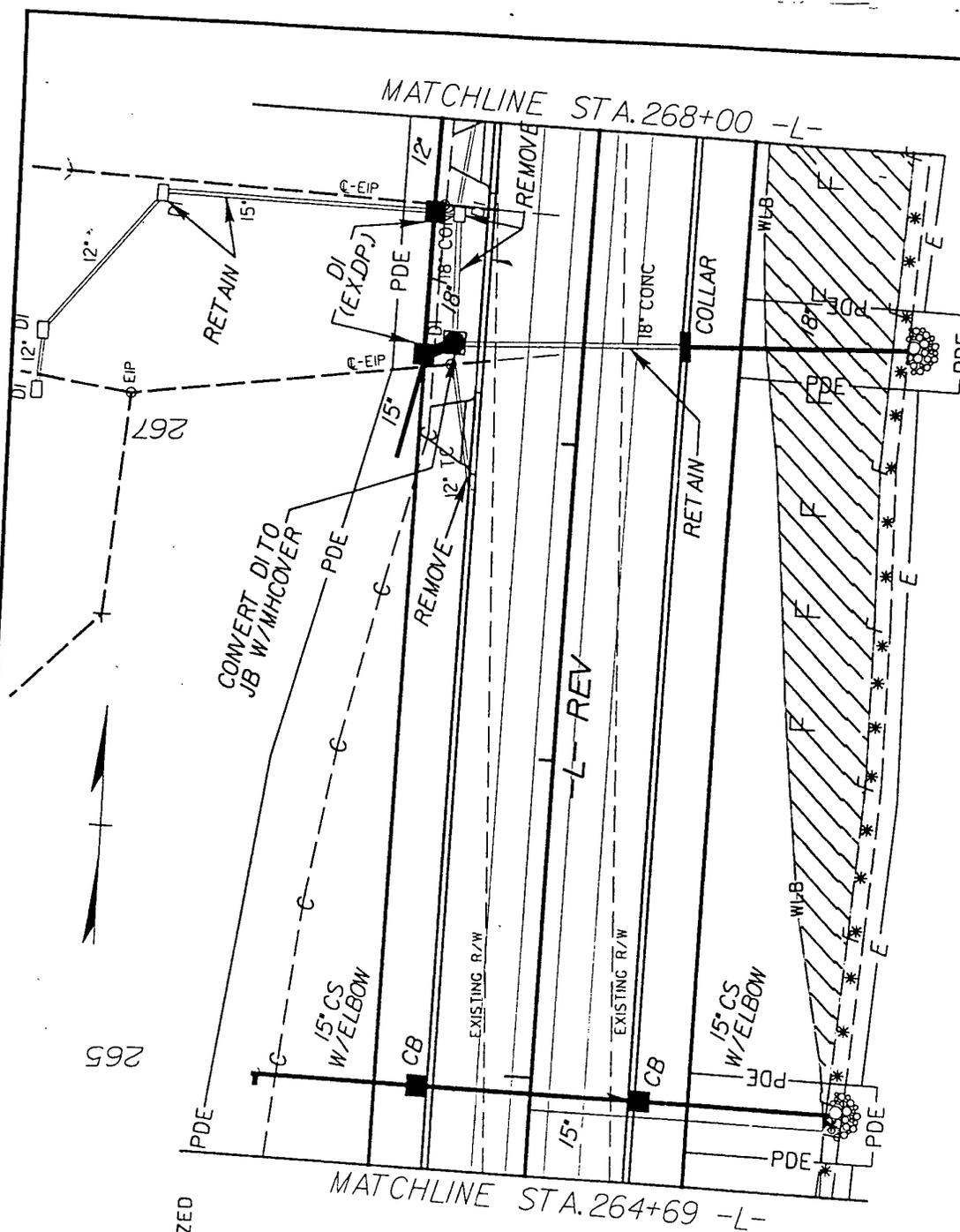
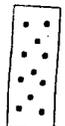
SCALE AS SHOWN
 SHEET 21 OF 37

SEPTEMBER 25, 2000

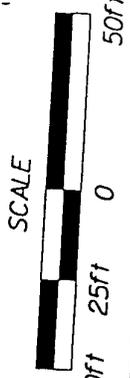
SITE #11

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING



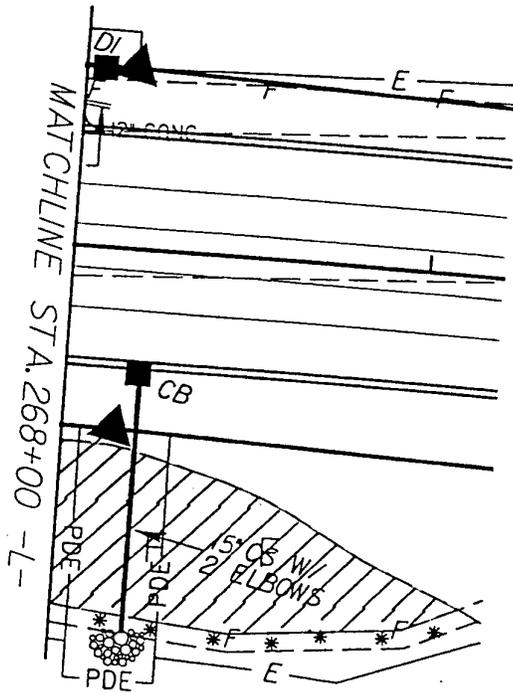
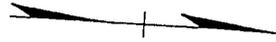
JOHN SPANN HEIRS



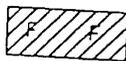
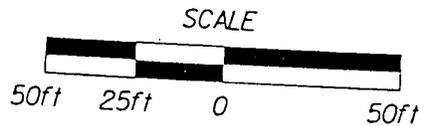
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

SCALE AS SHOWN
 SHEET 22 OF 37
 SEPTEMBER 25, 2000

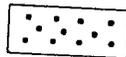
269



SITE #11



DENOTES FILL IN WETLAND



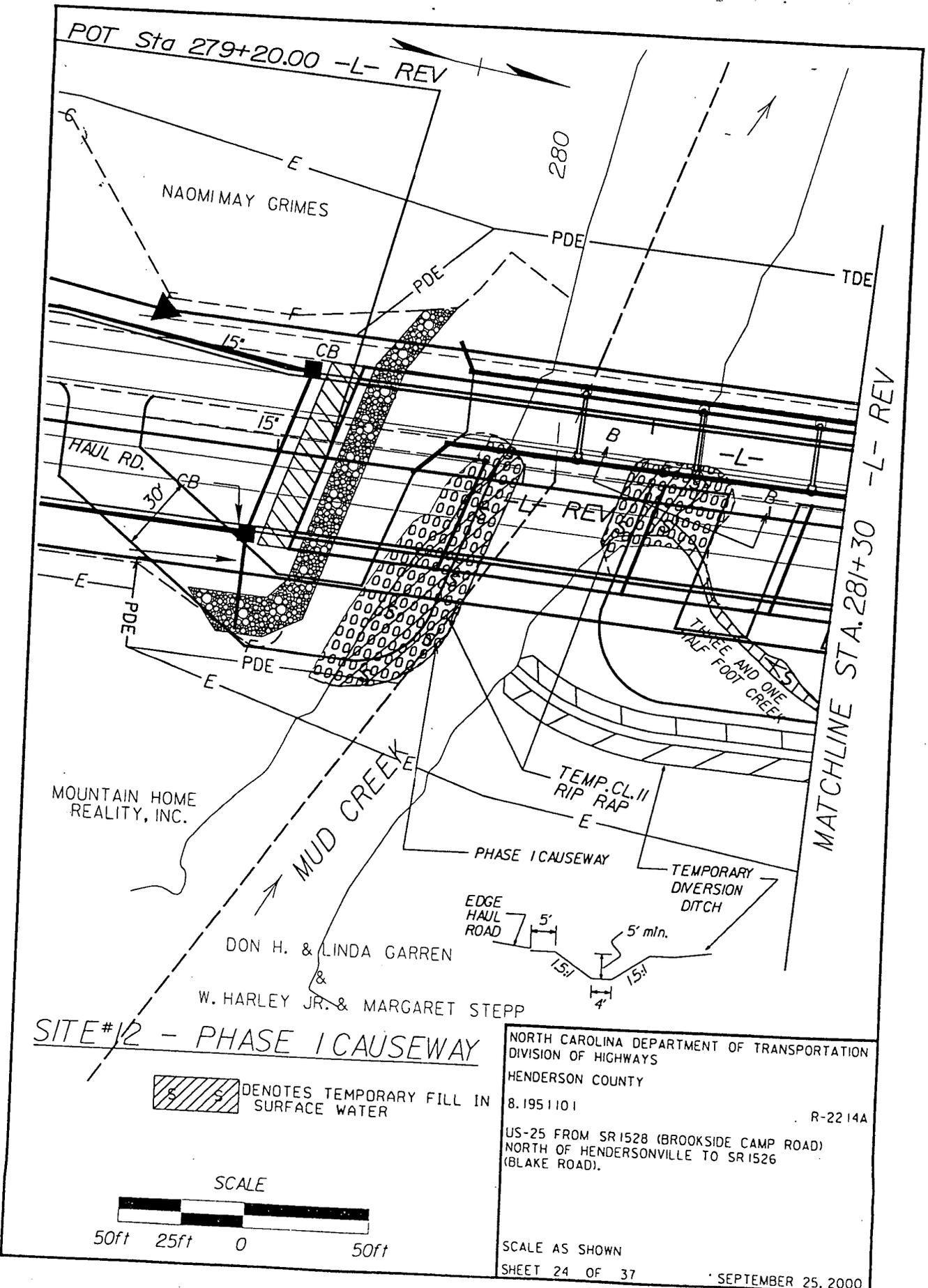
DENOTES MECHANIZED CLEARING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 B.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

SCALE AS SHOWN

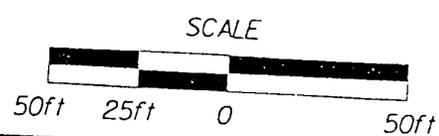
SHEET 23 OF 37

SEPTEMBER 25, 2000

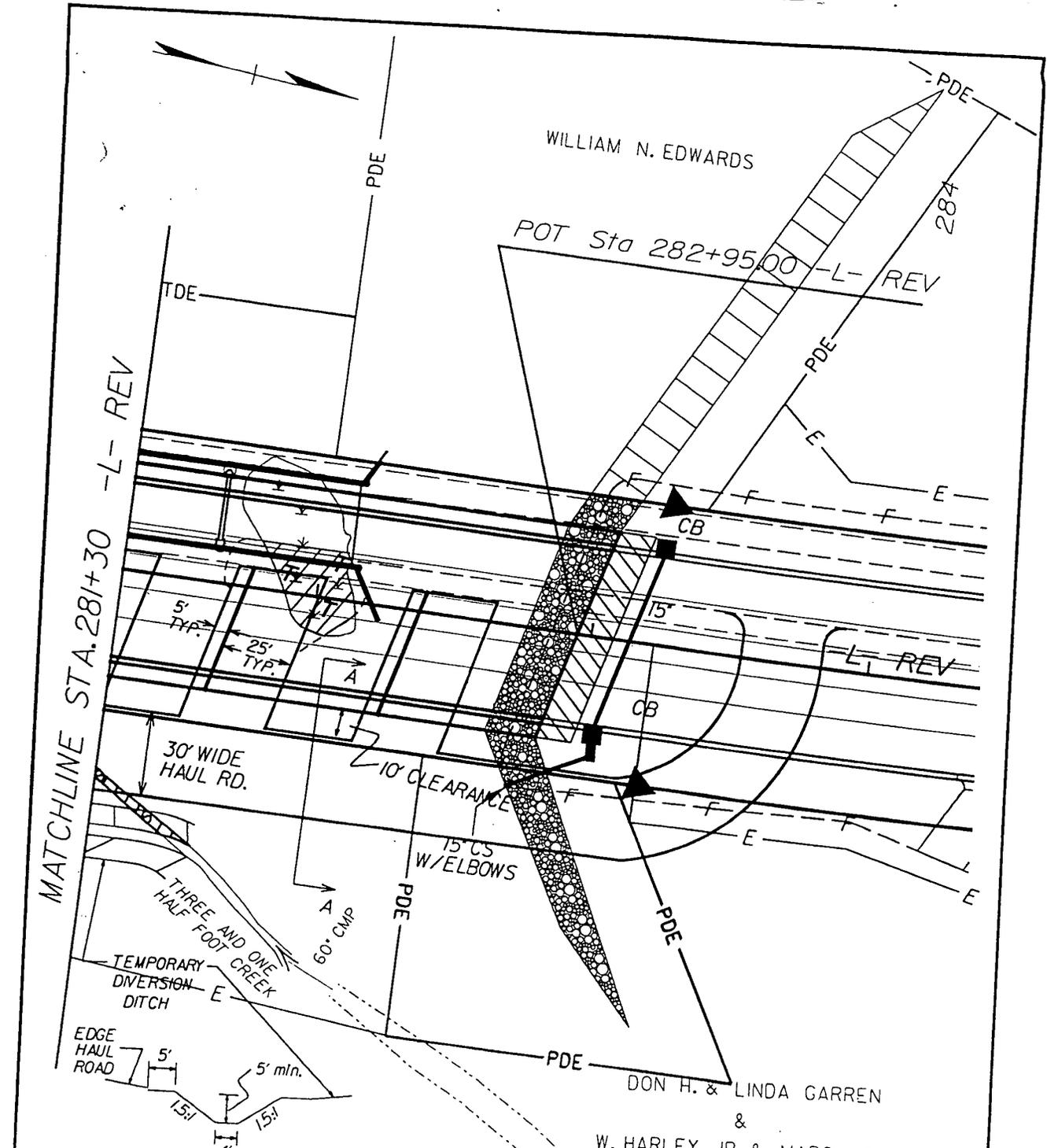


SITE #12 - PHASE I CAUSEWAY

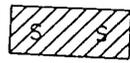
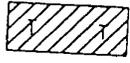
 DENOTES TEMPORARY FILL IN SURFACE WATER

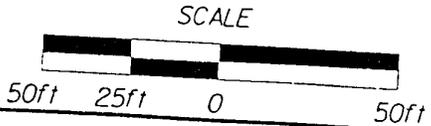


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 24 OF 37
 SEPTEMBER 25, 2000



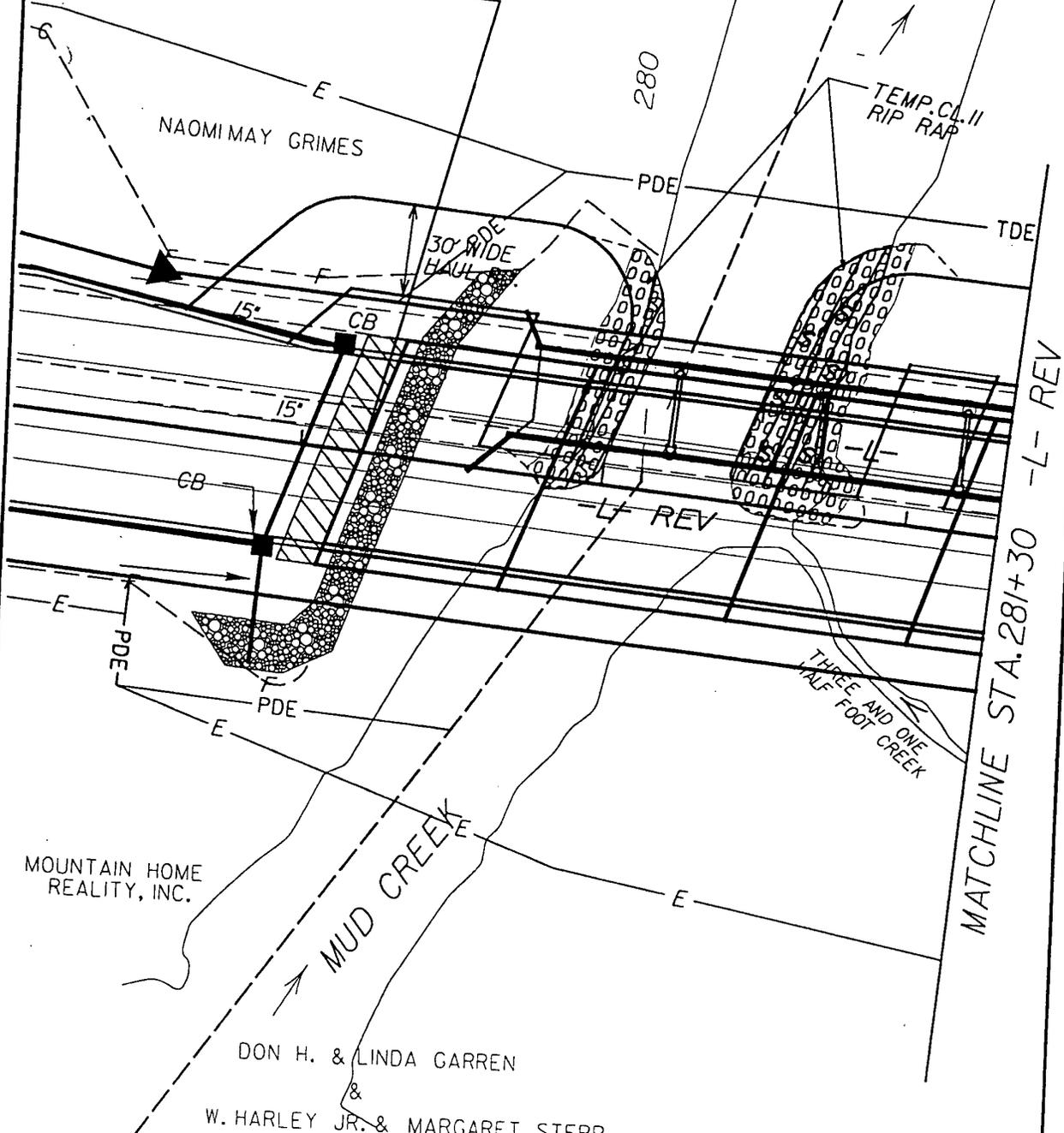
SITE#12 - PHASE I CAUSEWAY

-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES TEMPORARY FILL IN WETLAND

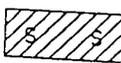


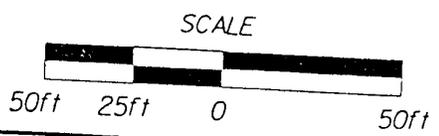
W. HARLEY JR. & MARGARET STEPP
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101
 R-22 14A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

POT Sta 279+20.00 -L- REV



SITE #12 - PHASE 2 CAUSEWAY

 DENOTES TEMPORARY FILL IN SURFACE WATER



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY

8.1951101

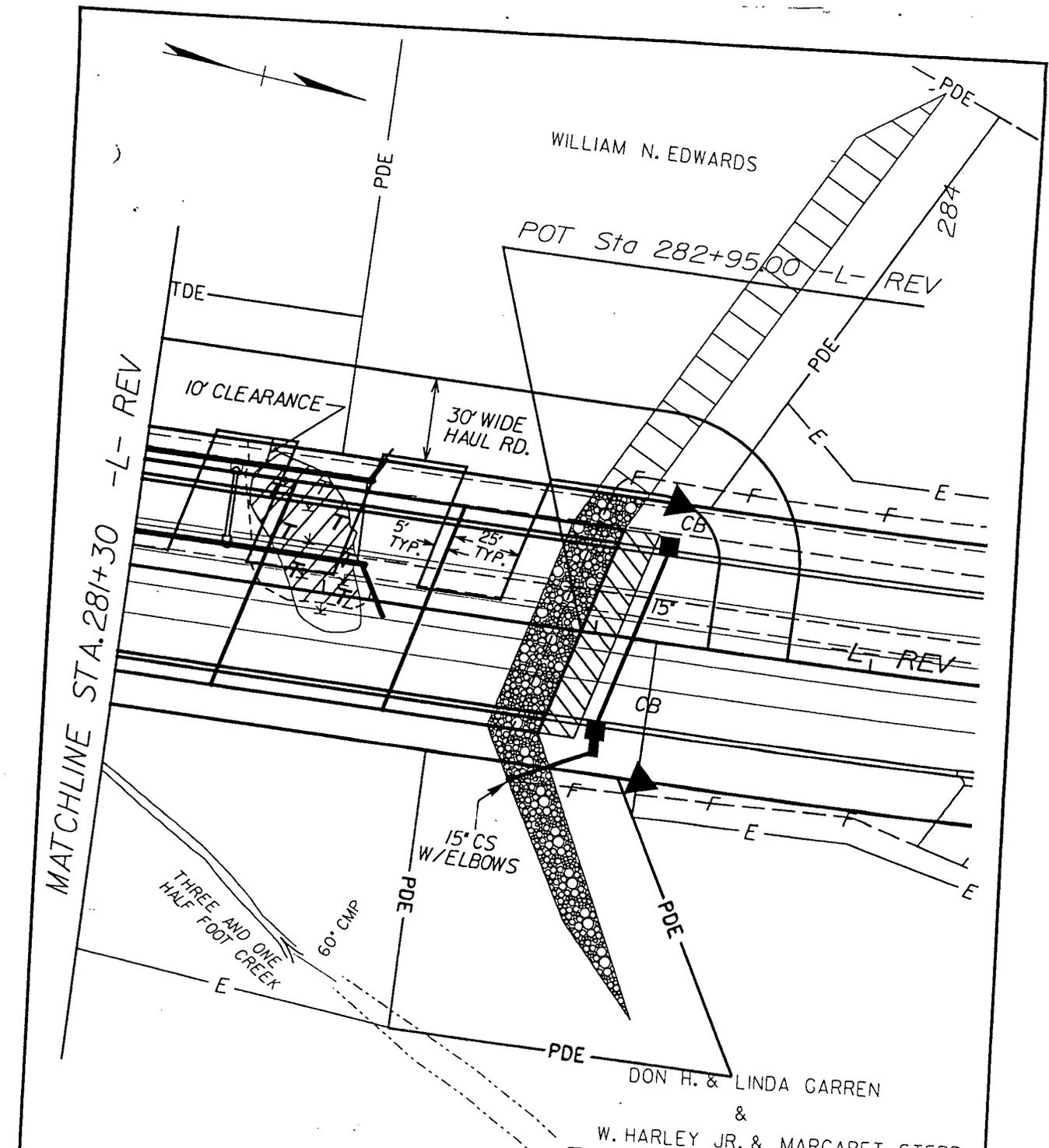
R-2214A

US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR 1526
(BLAKE ROAD).

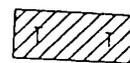
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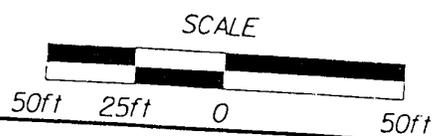
SHEET 26 OF 37

SEPTEMBER 25, 2000



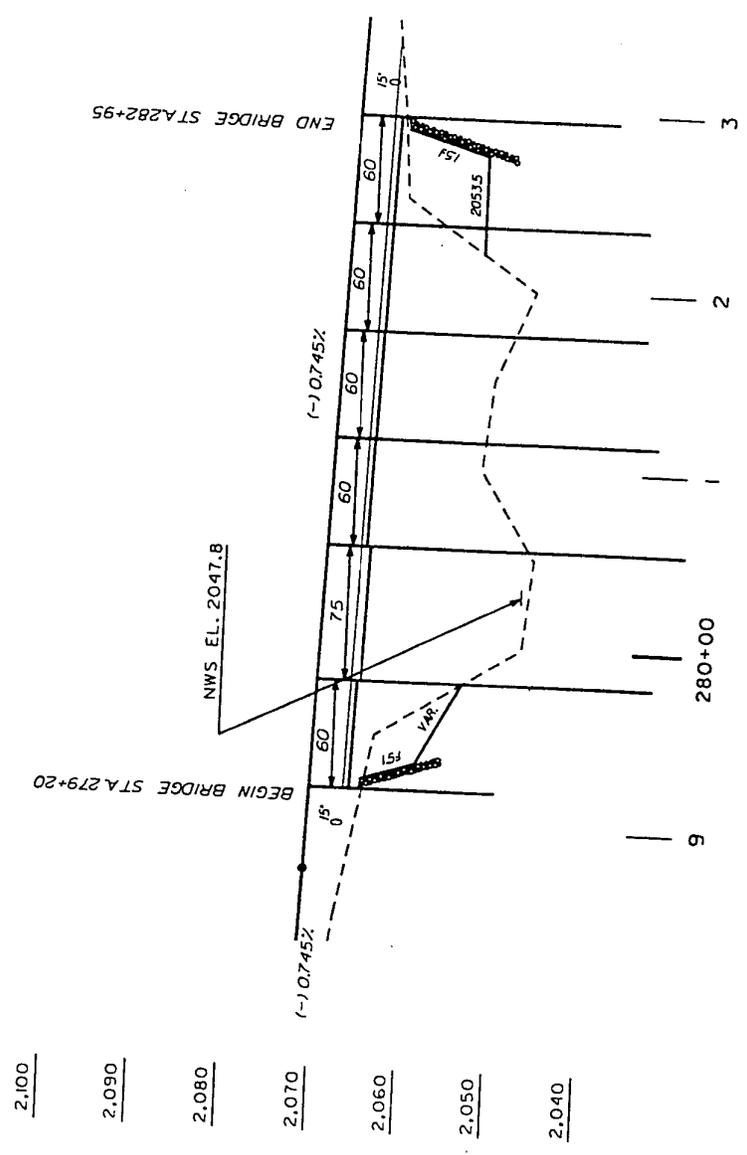
SITE #12 - PHASE 2 CAUSEWAY

 DENOTES TEMPORARY FILL IN WETLAND



W. HARLEY JR. & MARGARET STEPP
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

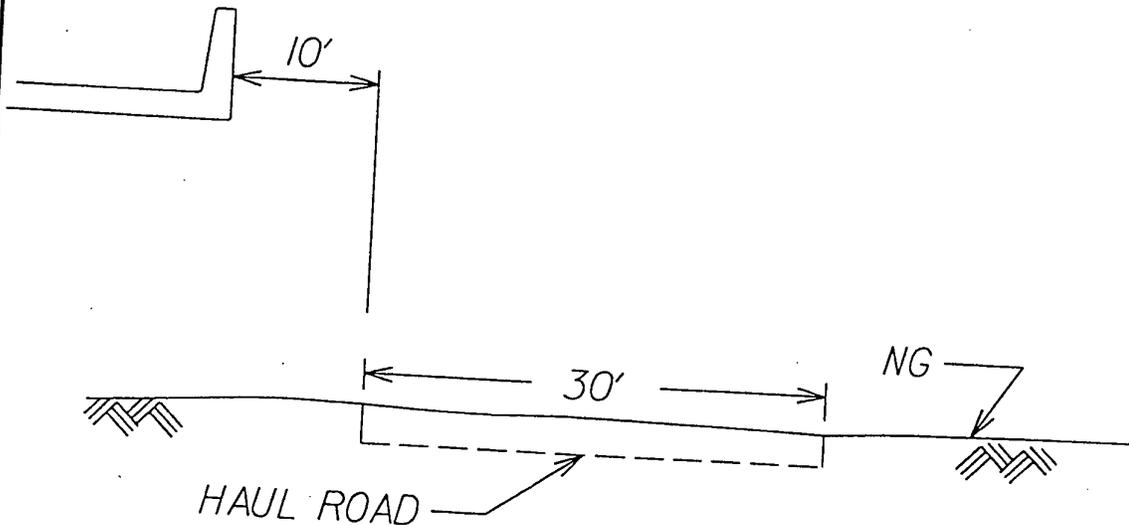
SCALE AS SHOWN
 SHEET 27 OF 37
 SEPTEMBER 25, 2000



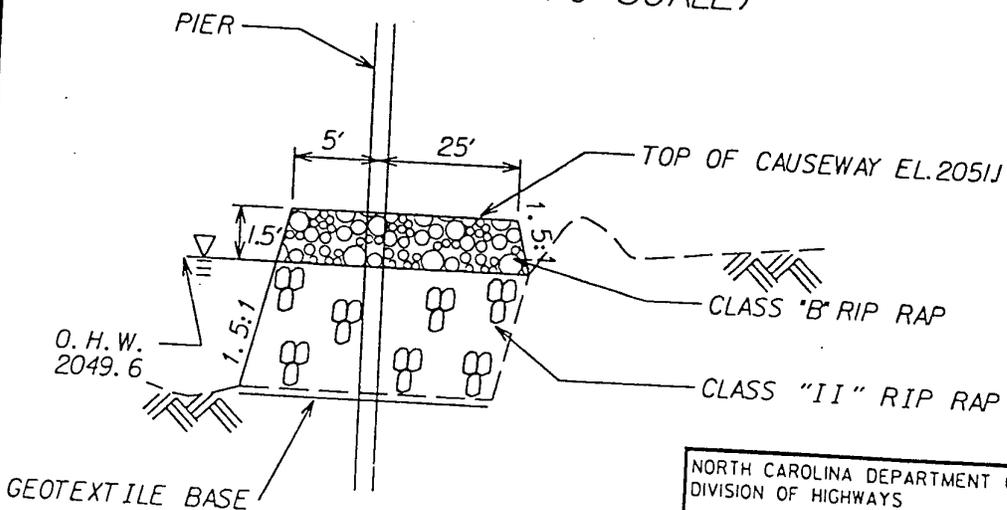
SITE #12 PROFILE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 28 OF 37 SEPTEMBER 25, 2000

SECTION A-A
(NOT TO SCALE)



SECTION B-B
(NOT TO SCALE)



SITE #12 - CAUSEWAY DETAILS

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY

8.1951101

R-2214A

US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR1526
(BLAKE ROAD).

SCALE AS SHOWN

SHEET 29 OF 37

SEPTEMBER 25, 2000

I. CAUSEWAY PHASE I

- 1.) CONSTRUCT TEMPORARY DIVERSION DITCH.
- 2.) CONSTRUCT HAUL ROADS ON BOTH NORTH & SOUTH SIDES OF MUD CREEK ON UPSTREAM SIDE OF THE EXISTING BRIDGE.
- 3.) CONSTRUCT 30' WIDE CAUSEWAY AT BOTH BENT #1 & BENT #2. INSTALL A GEOTEXTILE BASE AND PLACE CLASS 'II' RIP RAP TO ELEVATION 2049.5, PLACE CLASS 'B' RIP RAP TO ELEVATION 2051.0.
- 4.) INSTALL PHASE I PORTION OF BENTS #1 THRU #5 AND END BENTS.
- 5.) INSTALL PHASE I GIRDERS & BRIDGE DECK AND DIVERT TRAFFIC ONTO PHASE I.
- 6.) REMOVE CAUSEWAYS & DIVERSION DITCH.

II. CAUSEWAY PHASE II

- 1.) CONSTRUCT HAUL ROADS ON BOTH NORTH & SOUTH SIDES OF MUD CREEK ON DOWNSTREAM SIDE OF THE EXISTING BRIDGE.
- 2.) CONSTRUCT 30' WIDE CAUSEWAY AT BOTH BENT #1 & BENT #2. INSTALL A GEOTEXTILE BASE AND PLACE CLASS 'II' RIP RAP TO ELEVATION 2049.5, PLACE CLASS 'B' RIP RAP TO ELEVATION 2051.0.
- 3.) REMOVE EXISTING BRIDGE.
- 4.) INSTALL PHASE II PORTION OF BENTS #1 THRU #5 AND END BENTS.
- 5.) INSTALL PHASE II GIRDERS & BRIDGE DECK.
- 6.) UPON COMPLETION, REMOVE BOTH CAUSEWAYS.

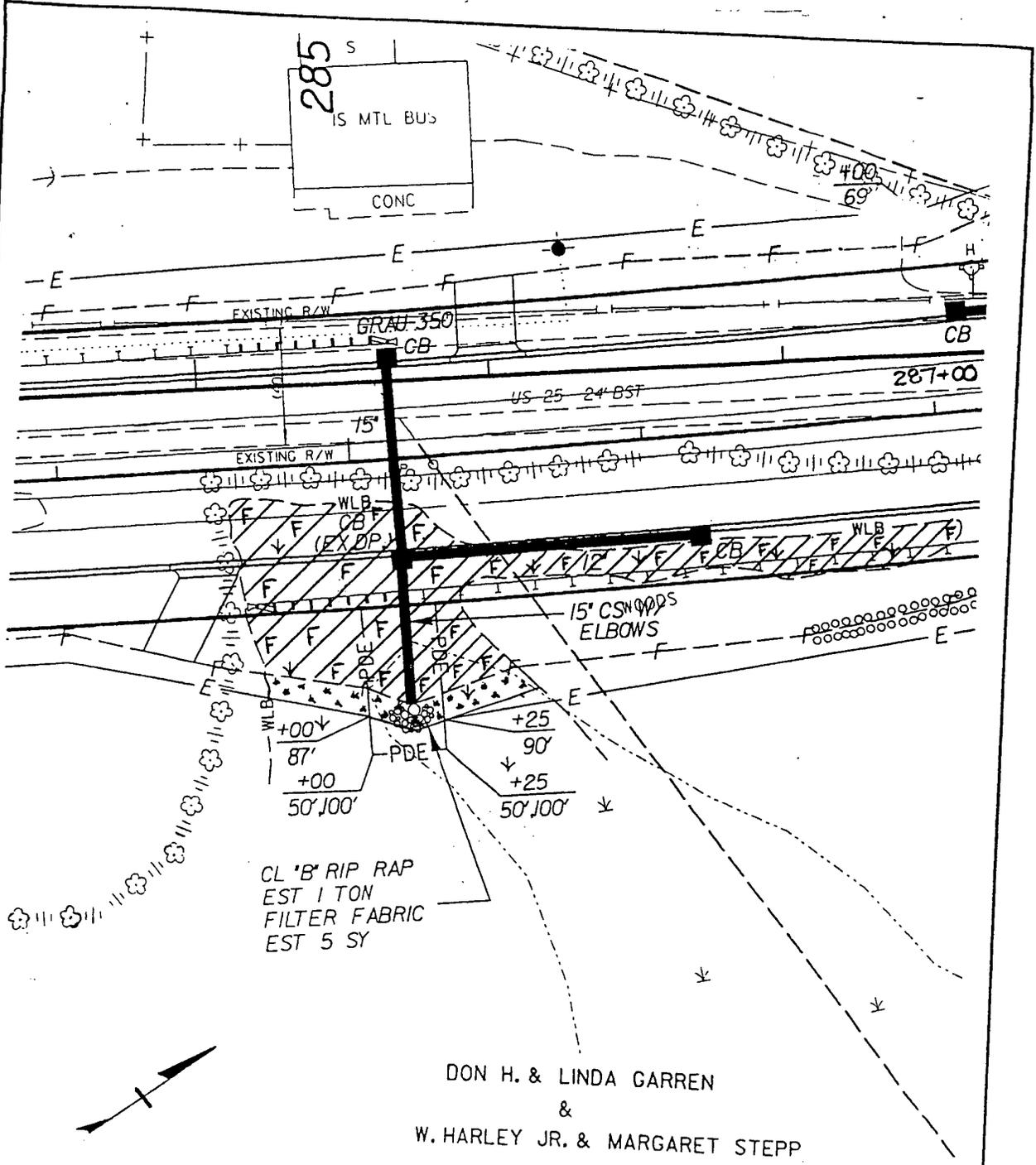
SITE#12

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
8.1951101 R-2214A
US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR1526
(BLAKE ROAD).

SCALE AS SHOWN

SHEET 30 OF 37

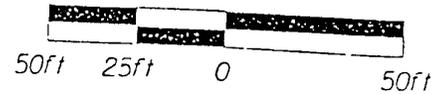
SEPTEMBER 25, 2000

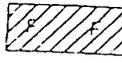
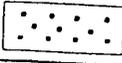


DON H. & LINDA GARREN
 &
 W. HARLEY JR. & MARGARET STEPP
 DB 482 PG 415

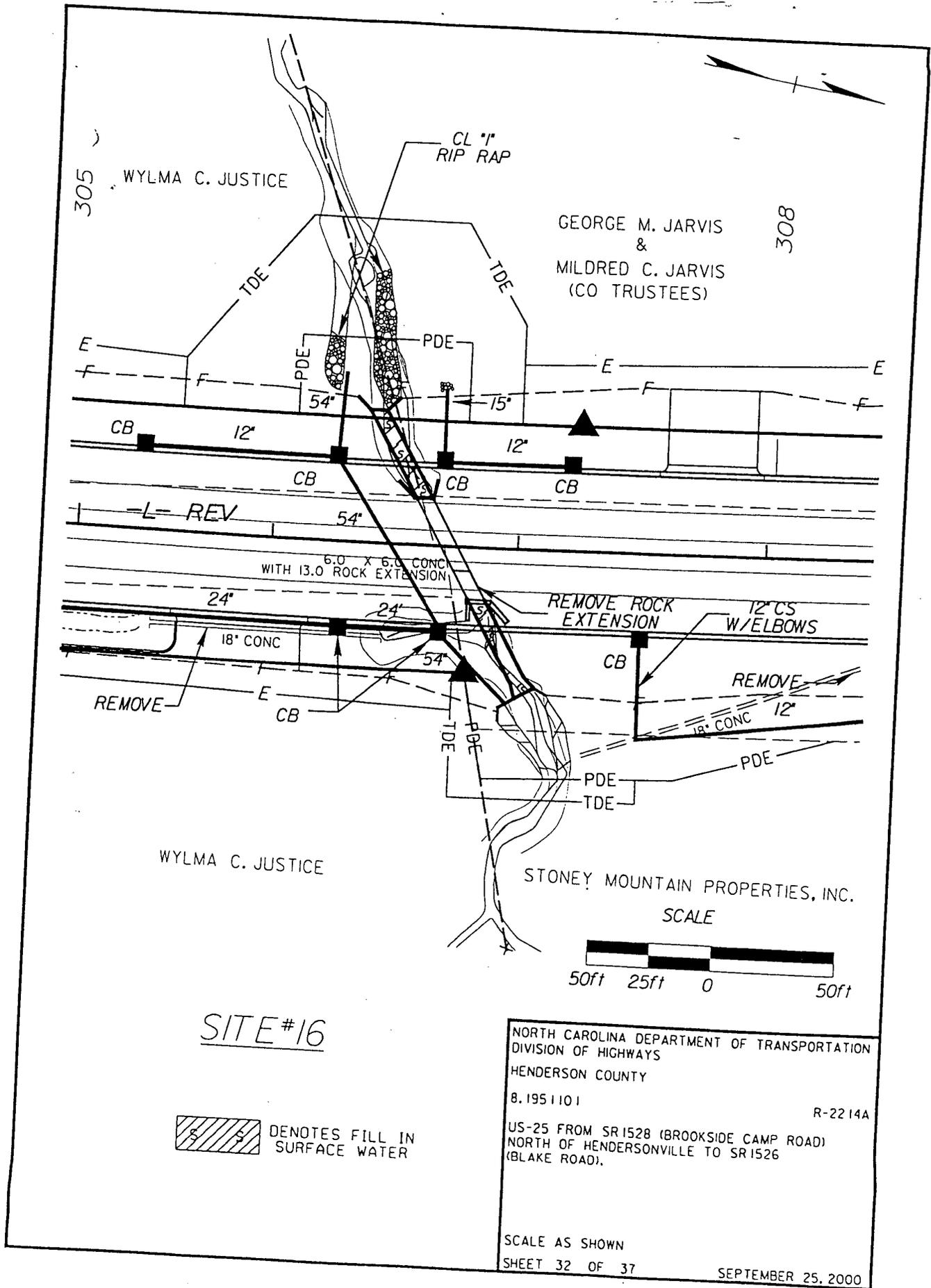
SITE #13

SCALE



-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101 R-22144
 US-25 FROM SR1526 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).
 SCALE AS SHOWN
 SHEET 31A OF 37
 OCTOBER 25, 2001



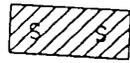
305

WYLMA C. JUSTICE

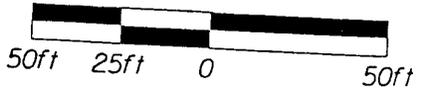
GEORGE M. JARVIS
&
MILDRED C. JARVIS
(CO TRUSTEES)

308

SITE #16

 DENOTES FILL IN SURFACE WATER

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
8.1951101
R-2214A
US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR 1526
(BLAKE ROAD).
SCALE AS SHOWN
SHEET 32 OF 37
SEPTEMBER 25, 2000

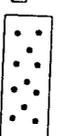


319

SCALE

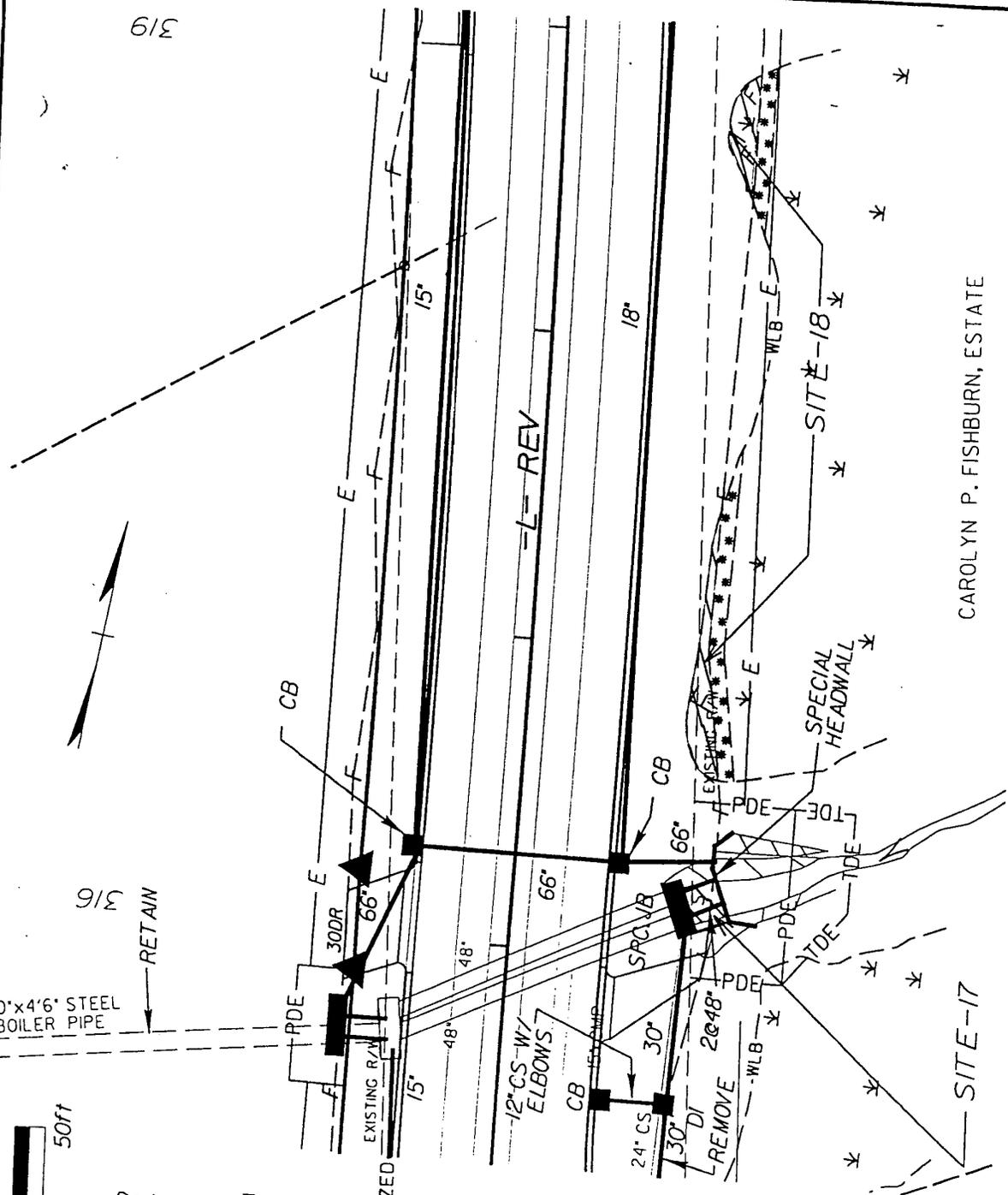


SITE #17 & #18

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

6'0"x4'6" STEEL BOILER PIPE

RETAIN 316



CAROLYN P. FISHBURN, ESTATE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 8.1951101
 R-2214A
 US-25 FROM SR1528 (BROOKSIDE CAMP ROAD)
 NORTH OF HENDERSONVILLE TO SR1526
 (BLAKE ROAD).

SCALE AS SHOWN
 SHEET 33 OF 37

NOVEMBER 15, 2000

PROPERTY OWNER
NAME AND ADDRESS

OWNER'S NAME	ADDRESS
ROBIN D. GORDON	3315 Asheville Hwy. Hendersonville, NC 28791
MARCELLE I. DRYMAN WALLACE	3418 Cely Drive Hendersonville, NC 28739
C. W. GOODE	P.O. BOX 640 MOUNTAIN HOME, NC 28758
DAISEY LOILETTE SIMMERS	22 Chipperdale Dr. Horseshoe, NC 28742-9744
EUGINE & DIXIE NIX	P.O. BOX 5038 HENDERSONVILLE, NC 28793
DANIELS ACQUISITION, INC.	P.O. BOX 43687 ATLANTA, GA 30378
W.R. JOHNSON JR. GAIL H. JOHNSON	P.O. BOX 241 MOUNTAIN HOME, NC 28758
ROBERT K. & JOYCE N. EHLERS	P.O. BOX 216 MOUNTAIN HOME, NC 28758
NELLIE M. RAY	P.O. BOX 129 MOUNTAIN HOME, NC 28758
BROADWAY HUGHES ASSOCIATES	34 AUDOBON DR. ASHVILLE, NC 28804
NAOMI MAY GRIMES	P.O. BOX 1218 HENDERSONVILLE, NC 28793
John F. Cely, II	P.O. Box 75 Mountain Home, NC 28758
DONALD T. WINGATE HELEN C. WINGATE	P.O. BOX 550 MOUNTAIN HOME, NC 28758
GENE A. WILKIE	201 NEWMAN DR. HENDERSONVILLE, NC 28792
HAROLD R. LIVERETT	P.O. BOX 6454 TYLER, TX 75711

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
8.1951101 R-2214A
US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR 1526
(BLAKE ROAD).

SCALE AS SHOWN
SHEET 34 OF 37

SEPTEMBER 25, 2000

PROPERTY OWNER

NAME AND ADDRESS

OWNER'S NAME	ADDRESS
Geneco, Inc C/O Gene & Cathy Wilkie	P.O. Box 1920 Mountain Home, NC 28758
GENE A. WILKIE CATHY R. WILKIE	201 NEWMAN DR. HENDERSONVILLE, NC 28792
HAROLD E. & BETTY J. ORR	RT. 8 BOX 124A HENDERSONVILLE, NC 28792
JOHN SPANN HEIRS	MOUNTAIN HOME, NC 28758
WILLIAM N. EDWARDS	P. O. BOX 153 HENDERSONVILLE, NC 28792
DON H. & LINDA GARREN W. HARLEY JR. & MARGARET STEPP	605 Ransier Drive Hendersonville, NC 28739
SOUTHERN STATES CORP., INC.	P.O. BOX 26234 RICHMOND, VA 23260
ARNOLD KEMP C/O DIAMOND BRAND	NAPLES, NC 28760
Alice B. Cunningham	290 Howard Gap Rd. Fletch, NC 28732
WYLMA C. JUSTICE	P. O. BOX 426 NAPLES, NC 28760
GEORGE M. JARVIS MILDRED C. JARVIS	P. O. BOX 356 FLETCHER, NC 28732
CAROLYN P. FISHBURN, ESTATE C/O ANN TABER	907 LUMINA RD. WRIGHTSVILLE BEACH, NC 28480
Dawjoncourt, Inc. C/O Jon Hall, Sr.	P.O. Box 1952 Winter Park, Fla. 32790

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
8.1951101 R-2214A
US-25 FROM SR 1528 (BROOKSIDE CAMP ROAD)
NORTH OF HENDERSONVILLE TO SR 1526
(BLAKE ROAD).

SCALE AS SHOWN

SHEET 35 OF 37

SEPTEMBER 25, 2000

SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Interchange Isolated Wetland (ac)	Mechanized Clearing (Method I) (ac)	Fill In SW (Natural) (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Temp. Fill In SW (ac)	Temp. Fill Channel Impacts (ft)
1	156 + 14 - 156 + 90 - L - REV	60" RCP	<0.01	0	0	0	0	0	<0.01	98	0	0
2	159 + 80 - 159 + 92 - L - REV	60" RCP	0	0	0	0	0	0.01	155	0	0	
3	183 + 02.5 - 186 + 91 - L - REV	12.1' x 5.1' RCBC	0	0	0	0	0	0.07	565	464	0	
4	12 + 00 - 12 + 09 - Y33-	30" RCP	0	0	0	0	0	0	14	0	0	
5	11 + 08 - 11 + 32 - Y36-	18" RCP	<0.01	0	0	0	<0.01	0	19	0	0	
6	218 + 00 - 221 + 60 - L - REV	18" RCP	0	0	0	0	0	0.02	400	0	0	
7	227+19 - 227+46 - L - REV 227+67 - 228+38 - L - REV	10.1' x 4.1' RCBC	0.01	0	0	0	<0.01	0.01	210	0	0	
8	248+46 - 249+88 - L - REV	7' x 5' RCBC	0	0	0	0	0	0.01	177	0	0	
9	252+21 - 252+71 - L - REV	2' x 4' RCBC	0.03	0	0	0	<0.01	0	0	0	0	
10	255+79 - 257+26 - L - REV	30" RCP	0.09	0	0	0	0.01	0	0	0	0	

* METHOD II CLEARING w/ MODIFICATION (5ft CLEARING BEYOND SLOPE STAKES)

NOTE: THERE IS NO FILL IN PONDS ON THIS PROJECT

N.C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY
 PROJECT: 8.1951101 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP RD.)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE RD.)
 SHEET 36 OF 37 September 25, 2000

SUMMARY

Site No.	Station (From/To)	Structure Size	WETLAND IMPACTS					SURFACE WATER IMPACTS						
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Interchange Isolated Wetland (ac)	Mechanized Clearing (Method II) (ac)	Fill In SW (Natural) (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)	Temp. Fill In SW (ac)	Temp. Fill Channel Impacts (ft)		
11	261+10 - 269+15 -L- REV	15" CS w/ ELBOW	0.32	0	0	0	0.09	0	0	0	0	0	0	
12	279+20 - 282+95 -L- REV	BRIDGE- 1 @ 60'; 1@75'; & 4 @ 60'	0	0.03	0	0	0	0	0	0	0	0	0.14	360
13	284+58 - 287+05 -L- REV	15" CS w/ELBOW	0.15	0	0	0	0.01	0	0	0	0	0	0	0
14	290+70 - 291+70 -L- REV	N/A	0.09	0	0	0	0.01	0	0	0	0	0	0	0
15	291+40 - 294+42 -L- REV	24" RCP	0.28	0	0	0	0.02	0	0	0	0	0	0	0
16	306+42 - 307+07 -L- REV	6' x 6' RCBC	0	0	0	0	0	0.01	171	0	0	0	0	0
17	315+02 - 315+25 -L- REV	2 @ 48"	0	0	0	0	0	<0.01	55	0	0	0	0	0
18	316+10 - 316+27 -L- REV	2 @ 48"	0.01	0	0	0	0.02	0	0	0	0	0	0	0
	316+59 - 318+87 -L- REV													
		TOTALS	0.98	0.03	0	0	0.16	0.13	1864	464	0.14	360		

* METHOD II CLEARING w/ MODIFICATION (5ft CLEARING BEYOND SLOPE STAKES)

NOTE: THERE IS NO FILL IN PONDS ON THIS PROJECT

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HENDERSON COUNTY
 PROJECT: 8.1951101 R-2214A
 US-25 FROM SR 1528 (BROOKSIDE CAMP RD.)
 NORTH OF HENDERSONVILLE TO SR 1526
 (BLAKE RD.) 9/1/01
 SHEET 37 OF 37 September-26, 2000-