| FED. ROAD DIST. NO. | STATE | STATE PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 14 | N.C. | 9-256 | | 1 | 41 |
| F.A. Proj. S-739 (1) | | | | | |

**INDEX OF SHEETS**


Sheet No. 1. Title Page
" " 2. Estimate of Quantities
" " 1. Typical Cross Section of Improvement
" " 3. Typical Grading Sections for Intersection Areas
" " 3RH. Details of Concrete Endwalls
" " 3RS Details of Drainage, etc.
" " 3RD 1 Std Conc. Drop Inlet 3RD1 #200
" " 3HOSE Details of Superelevating Curves.
" " 4-11 Plans & Profile.
" " 12 Summary of Earthwork.
" " 13-41 Cross Sections.
" " S1-S10 Bridge plans.


STATE OF NORTH CAROLINA

STATE HIGHWAY AND PUBLIC WORKS COMMISSION

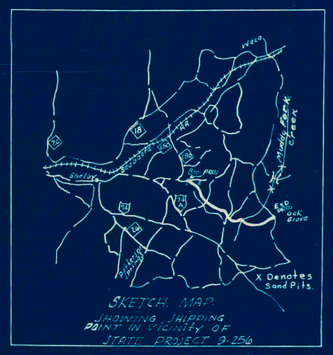
# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

# CLEVELAND COUNTY

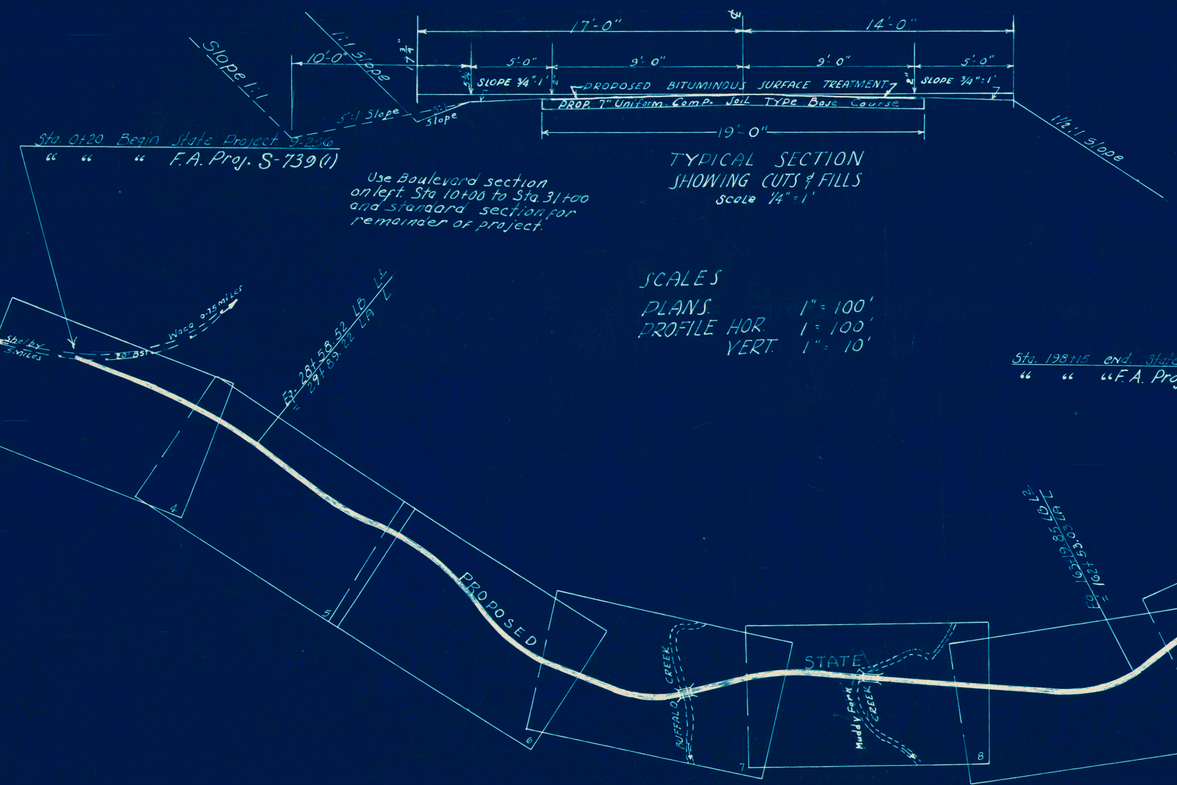
Begin at Sta 0+20 a point at the edge of a paved County road, approximately 5.0± miles east of Shelby, N.C. and extending in a general Southeasterly direction along and near existing County road to a point on paved road near Oak Grove Sta. 198+15 End of Project.

**CONVENTIONAL SIGNS**

- County Line
- Township Line
- City or Town Line
- Right of Way Line
- Survey Line
- Property Line
- Wire Fence
- Board Fence
- Present Traveled Road
- Railroad
- Grade Elevation — DATUM 1650
- Ground Elevation — DATUM 1650
- Pipe Culvert
- Box Culvert
- Woods
- Telephone or Telegraph Pole
- Tower Pole and Line
- Power Pole
- RIGHT OF WAY MARKERS




SKETCH MAP
SHOWING SHIPPING POINT IN VICINITY OF STATE PROJECT 9-256




Layout Map
Scale: 1" = 1000'

Length of Roadway F.A. Proj. S-739(1) = 3.663 mi.
" " Structures " " " " = .073 mi.
Total Length State Proj 9-256 = 3.736 mi.

Right of way on this project is 60' wide.

APPROVED: W. H. Rogers, Jr.
STATE HIGHWAY ENGINEER

Prepared in Office of
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
RALEIGH, N. C.

Surveyed by: GARLAND LLOYD
Plans Prepared by: R. D. TURNER
Date: MARCH 1954

1952
State Standard Specifications,
Approved by Bureau Control.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DISTRICT ENGINEER DATE

9-256

| FED. ROAD DIST. NO. | STATE | ~~FED.AID~~ PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | N.C. | 9.256 | | 7 | 41 |
| | FA Proj. S-7390) | | | | |

PLAN
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
No.

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
No.

80 85 90 95 100 105 110

L.S.RICH

F.L. CASH

S 50° 41 E

F.L. CASH

F.L. CASH

D.A. BEAM CO.

PI = 94+76.78
Δ = 36° 31 LT
D = 5°
T = 378.17
L = 730.33
R = 1146.28

PC 90+98.61

PT 98+28.49

D.A. BEAM CO.

MRS. GEORGE CARPENTER
&
MRS. C.S. AUSTELL

PC 109+84.27

PI 113+03.45
Δ = 18° 21 RT
D = 3°
T = 308.52
L = 611.67
R = 1910.08

S 87° 12 E

Buffalo Creek

Spring

Pasture & Scrub Oaks

F.L. CASH

F.L. CASH

MRS. GEORGE CARPENTER
&
MRS. C.S. AUSTELL

Woods

35 BW

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
No.
CULVERT NOTATIONS CHECKED
STRUCTURE NOTATIONS CHECKED

P.I. 83+00
El. 732.29

B.M. EL. 705.03
Nail in base 14" Oak
40' Rt. Sta. 88+15

-1.2%

800 V.C.

-6.0%

105.0'-18" Pipe Regd.
Remove ex. ST 103-12" C.M.P.

87+90.0'-15" Pipe Regd.
Under Drive on P.I.

Sta. 90+00 to Sta. 91+60
Enlarge Ditch rem. on Lt. 2' base

160.44'-18" Pipe Regd.
15° Rt. Skew

125.60'-36" Pipe Regd.
30° Lt. Skew

100.30'-36" Pipe Regd.
30° Rt. Skew

B.M. EL. 647.74
Nail in base 14" Pine
50' Rt. Sta. 98+45

Sta. 99+10 Existing Bridge

Sta. 100+32-6@15' I Beam & Conc. Bridge
15° Lt. Skew, 36'-0" Roadway, 5° Vert. Curve
Remove ex. 1 Lane Bridge, Open to Traffic
Offset Lines Temporary Crossing

Sta. 101+45 Ex. Bridge

Est. 355 Sq. Yds. Plain Rip Rap, Class 2, regd. for end bents

140.18'-18" Pipe Regd. 65° Lt. Skew
H.E.T.D. 2' Noise = 20 cu. yds.

B.M. EL. 679.59
Nail in base 18" Oak
55' Lt. Sta. 105+43

+10%

300 V.C.

+2.0%

-6.0%

Ditch grade

300 V.C.

P.I. 97+50
El. 645.29

P.I. 103+00
El. 656.29

Max. H.W. Elev. 629.0

Bot. Sta. 99+70.25

P.I. Sta. 101+45.5

Earth Emb. +20% = 5701 Cu. Yds.
" Excav. = 5392 " "
Borrow = 309 " "

730 20 10 700 90 80 70 60 650

660 50 640 660 650

700 90 80 70 60 50 40 30 620

80 1 2 3 4 5 6 7 8 9 90 1 2 3 4 5 6 7 8 9 100 1 2 3 4 5 6 7 8 9 110

PLATE 1 - PLAN-PROFILE O. P. R. & R. E. STANDARD

THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO. | STATE | N.C. | 4 H. | SHEET NO. | TOTAL SHEETS | 4

PLAN — SURVEYED | PLOTTED | NOTE BOOK | GRADES CHECKED | No. | STRUCTURE LOCATIONS CHECKED | DATE | BY

PROFILE — SURVEYED | PLOTTED | NOTE BOOK | GRADES CHECKED | No. | STRUCTURE LOCATIONS CHECKED | DATE | BY

MRS. GEORGE CARPENTER & MRS. C.S. AUSTELL

MRS. GEORGE CARPENTER & MRS. C.S. AUSTELL

MRS. GEORGE CARPENTER & MRS. C.S. AUSTELL

MRS. GEORGE CARPENTER & MRS. C.S. AUSTELL

S68°51E

35 BW

20' Soil Co. Rd.

Creek Bank

Muddy Fork Creek

Muddy Fork Creek

Prim.

PC 109+94.97

PI = 113+03.45
Δ = 18°21' Rt.
D = 3°
T = 308.52
L = 611.67
R = 1910.08

PT 116+06.64

Sta. 111+ Co. Road Conn. on Rt. & Lt.
Est. 250 Cu. Yds. Embank.

Sta. 115+ Co. Road Conn. on Lt.
Est. 200 Cu. Yds. Excav. &
300 Cu. Yds. Embank.

Min. 10'
1½:1
1½:1
5'
2.5'

SKETCH SHOWING DETAIL OF PROPOSED DYKE
Scale: 1" = 10'

Bank of Creek

Prop. Channel Change

Note: A dyke shall be constructed on the west side of the proposed channel change approximately to cross-section as shown above. Material removed from channel change shall be used to construct proposed dyke and paid for at the contract unit price bid per cu. yd. for Unclassified Excavation.

Estimated 50% Rock

B.M. El. 693.60
Nail in base 20" Beech
60' Rt. Sta 120+27

+10.0%

1400 V.C.

P.I. 112+70
El. 724.19

-6.0%

+00 40-18" Pipe Regd. Under Co. Road on Lt.

40-18" Pipe Regd. Under Co. Road on Lt.
Use extra section #1 Gage CM Pipe
+00 43 Riprap Regd.
El. 1 in ditch on Lt.
20' x 12' x 30'

| | | |
|---|---|---|
| Total Excav. | = 27,217 | Cu. Yds. |
| Rock " | = 8,050 | " " |
| Earth " | = 19,167 | " " |
| Total Emb | = 23,145 | " " |
| Rock " | = 8,050 | " " |
| Earth Emb. | = 15,095 | " " |
| Earth Excav. | = 19,167 | " " |
| Earth Emb + 20% | = 18114 | " " |
| Waste | = 1053 | " " |

500 V.C.

P.I. 125+49.5
El. 647.42

Sta. 128+19.25 Begin Bridge

120-20' (640') I Beam Span Gage Br. type Steel: 5 @ 4'-11" c.c. Beams; 5'-0" c.c. Change of El. Sta. 129+15 to Sta. 129+65 = 4.00% Slope; 1½:1 Slopes; 650 = 4.00% Vert. Curve. Remove exist. Bridge 600' N of other use as Temp. Detour. Cross. 29.

Sta. 129+80.25 End Bridge

Est. 240 Sq. Yds. Plain Rip Rap. Class 2, Regd. for end bents.

B.M. El. 647.63
Nail in base 7" Pine
100' Lt. Sta. 132+37

Sta. 131+ to Sta. 134+40 = Protect toe of L.S. slope with loose rock

+00 40-18" Pipe Regd. Under Co. Road on Lt.
"C" End Wall Regd. on Lt.

400 V.C.

+5.0%

Max. H.W. Elev. 641.5

P.I. 132+00
El. 647.42

| | | |
|---|---|---|
| Total Excav. | = 13,551 | Cu. Yds. |
| Rock " | = 8885 | " " |
| Earth " | = 4666 | " " |
| Total Emb. | = 13068 | " " |
| Rock " | = 8885 | " " |
| Earth " | = 4183 | " " |
| Earth Emb. + 20% | = 5020 | " " |
| " Excav. | = 4666 | " " |
| Borrow | = 354 | " " |

800 V.C.

P.I. 140+00
El. 687.42

710 700 90 80 70 60 50 40 630

110 1 2 3 4 5 6 7 8 9 120 1 2 3 4 5 6 7 8 9 130 1 2 3 4 5 6 7 8 9 140

PLATE 1 - PLAN-PROFILE G. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO