

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP-012-1(107) Cherokee County **OFFICE** Preconstruction
P. I. No. 632790
CWH **DATE** October 20, 1999
FROM C. Wayne Hutto, Assistant Director of Preconstruction
TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Walker Scott
David Mulling
David Studstill (ATTN: Harvey Keeper)
Jerry Hobbs
Herman Griffin
Georgene Geary (ATTN: Michael Henry)
Marion Waters
Marta Rosen
Paul Liles
Don Mills
Charles Law

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE STP-012-1(107) Cherokee County **OFFICE** Preconstruction
P.I. No. 632790
DATE September 14, 1999

FROM  Walker W. Scott, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the intersection improvements and climbing lanes along SR 20 from I-575 east to SR 69. State Route 20 is a major east-west route with high traffic volumes and a high percentage of trucks along the section in eastern Cherokee County. State Route 20 is currently a two lane rural roadway with a posted speed limit of 55 MPH. Traffic is projected to be 15,000-25,000 VPD in the year 2004 and 30,000-50,000 VPD in the year 2024.

The construction proposes truck climbing lanes along three sections of this roadway in both the eastbound and westbound directions. The construction is proposed as follows:

1. Site #1 will provide an eastbound truck climbing lane from MP 13.0 to MP 13.50.
2. Site #2 will provide a westbound truck climbing lane from MP 17.1 to MP 19.30.
3. Site #3 will provide an eastbound truck climbing lane from MP 21.1 to MP 22.3.

Intersection improvements will be done at Key Road, Scott Road, Upper Union/Harmony Road, and Old orange Mill Road. A design exception will be requested for the existing substandard horizontal and vertical alignment. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion be prepared; 22 displacements (6 residences, 5 businesses, and 1 mobile home); three possible UST sites impacted; a public information meeting will be held; time saving procedures are appropriate.

Wayne Shackelford

Page 2

STP-012-1(107) Cherokee

September 14, 1999

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$5,826,00	\$4,275,000	2002	01-07
Right-of-Way	\$4,374,000	\$2,082,000		
Utilities*	\$ 671,000	-----		

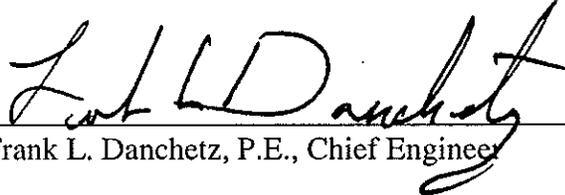
*LGPA to be sent.

This project is in the STIP. I recommend this project concept be approved.

WWS:JDQ/cj

Attachment

CONCUR



Frank L. Danchetz, P.E., Chief Engineer

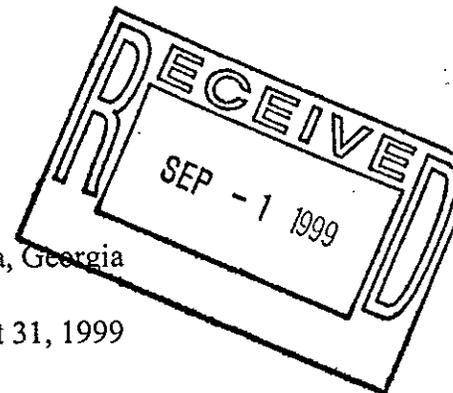
APPROVE



Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE



FILE: STP-012-1(107) Cherokee
P.I. Number 632790

OFFICE: Atlanta, Georgia

DATE: August 31, 1999

FROM: David Mulling, Project Review Engineer *DTM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT

We have reviewed the concept report submitted August 31, 1999 by the letter from Charles E. Law dated August 25, 1999, and have no comment.

The costs for the project are:

Construction	\$4,624,000
Inflation	\$ 462,000
E&C	\$ 509,000
Preliminary Engineering	\$ 231,000
Reimbursable Utilities	\$ 671,000
Right of Way	\$4,374,000

DTM

c: Charles Law – Attention: Jim Hullett

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

STP 012 - 1 - (107) CHEROKEE COUNTY

P.I. NUMBER 632790

Federal Route No.: F 12 -1

Date of Report: August 25, 1999

State Route No.: 20

RECOMMENDATION FOR APPROVAL

8-25-99

Date

James W. Hullett Jr.
Project Manager

This project concept is contained in the Regional Transportation Improvement Program (RTIP) and/or in the State Transportation Improvement (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and/or the STIP.

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

8/25/99

Date

Charles Jew
District Engineer

8/31/99

Date

David J. Mullen
Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

STP 012 - 1 - (107) CHEROKEE COUNTY

P.I. NUMBER 632790

Federal Route No.: F 12 -1

Date of Report: August 25, 1999

State Route No.: 20

RECOMMENDATION FOR APPROVAL

8-25-99

Date

James W. Hullett Jr.

Project Manager

This project concept is contained in the Regional Transportation Improvement Program (RTIP) and/or in the State Transportation Improvement (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and/or the STIP.

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

8/25/99

Date

Charles Jewell

District Engineer

Date

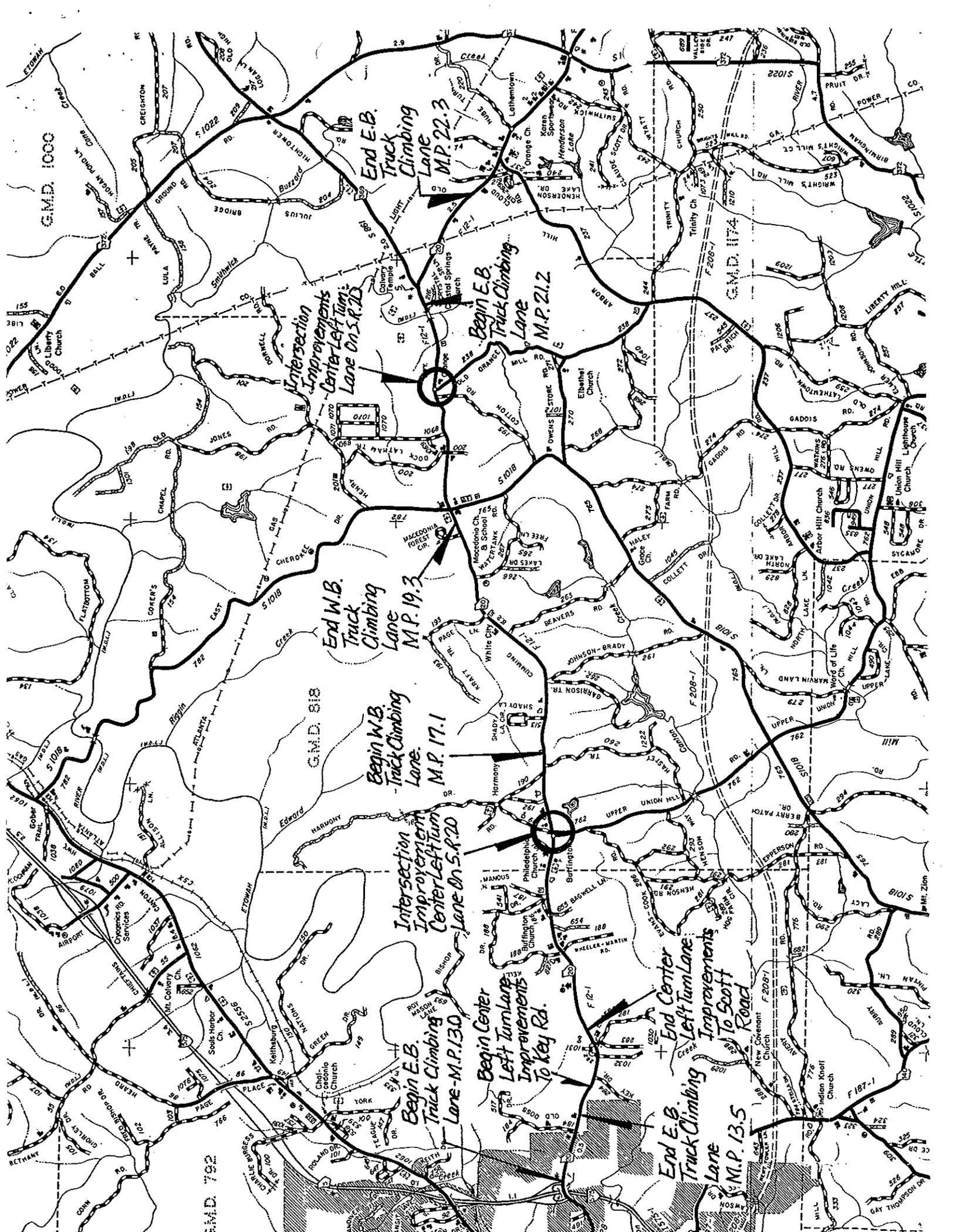
Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer



Begin W.B. Truck Climbing Lane
M.P. 17.1

End W.B. Truck Climbing Lane
M.P. 19.3

Begin E.B. Truck Climbing Lane
M.P. 21.2

End E.B. Truck Climbing Lane
M.P. 22.3

Intersection Improvements
Center Left Turn Lane On S.R. 20

Begin Center Left Turn Lane Improvements To Key Rd.

End E.B. Truck Climbing Lane
M.P. 13.5

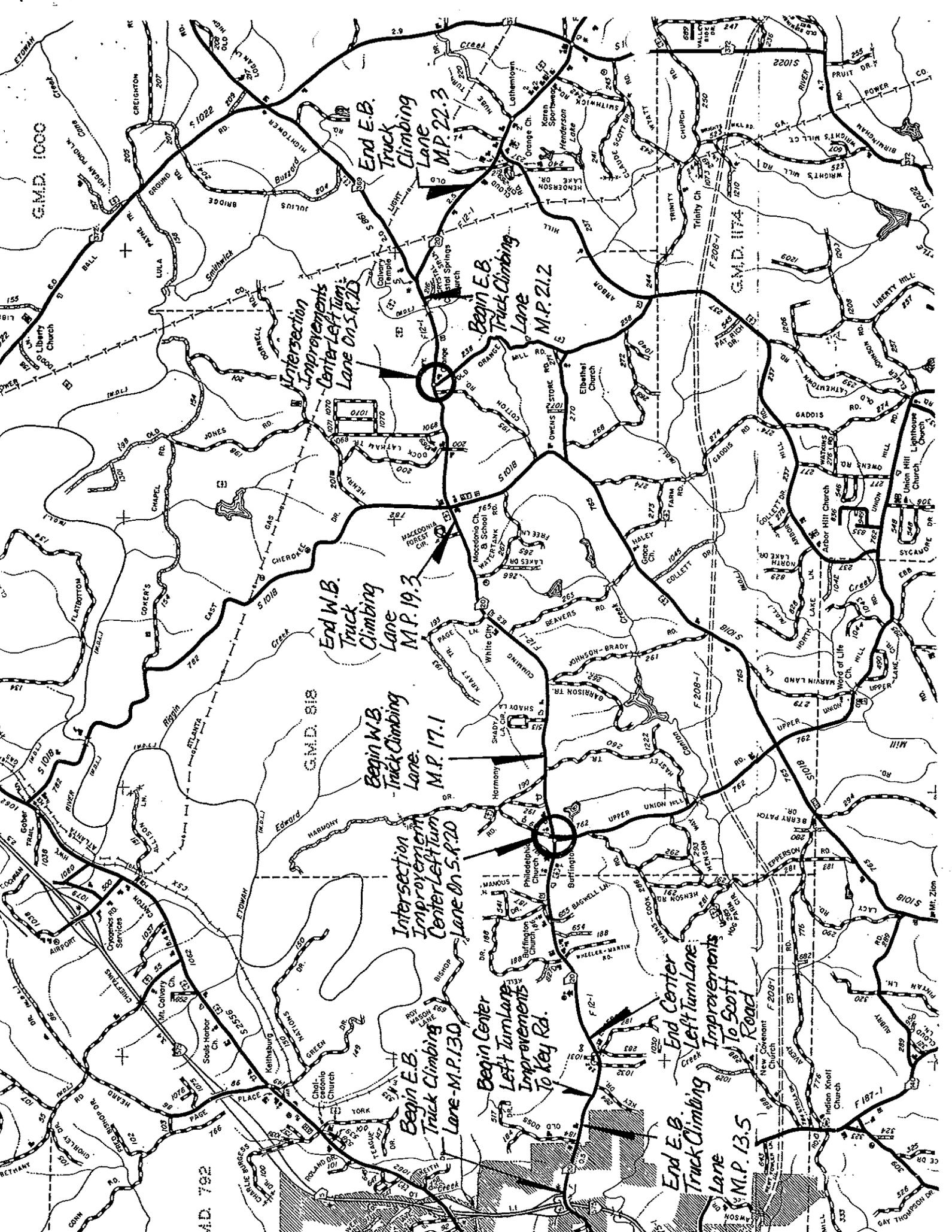
Begin Center Left Turn Lane Improvements To Scott Road

G.M.D. 1000

G.M.D. 818

G.M.D. 1174

ROAD 792



PROJECT CONCEPT REPORT

PROJECT NUMBER: STP 0-12 1 (107) Cherokee County

PROJECT LOCATION AND DESCRIPTION

A series of truck climbing lanes and intersection improvements on S.R. 20 in Cherokee County between I 575 and SR 369.

An eastbound truck climbing lane from M.P. 13.0 to 13.5; a center left turn lane between Key Rd. and Scott Rd., with intersection improvements to Key Rd. and to align Scott Rd. and the easternmost intersection with Weaver Circle. Propose to close the westernmost intersection of Weaver Circle; An intersection improvement at Union Hill Rd. and Harmony Circle; a westbound truck climbing lane from M.P. 17.1 to 19.3; an intersection improvement at Old Orange Mill Rd.; an eastbound truck climbing lane from M.P.21.2 to 22.3.

PROJECT LENGTH: 4.9 MILES

TRAFFIC

CURRENT

PROJECTED

YEAR
2004

AADT
15,000 25,000
(Depending on location)

YEAR
2024

AADT
30,000 – 50,000
(Depending on location)

PDP CLASSIFICATION

FUNCTIONAL CLASSIFICATION

MINOR

RURAL MINOR ARTERIAL

NON-CA ()

CA ()

EXEMPT (X)

N/A ()

NEED AND PURPOSE

State Route 20 is a major east – west route in this area, with high traffic volumes and a high percentage of trucks using this section of roadway in eastern Cherokee County.

For safety reasons, these truck climbing lanes and intersection improvements are needed.

EXISTING ROADWAY

TYPICAL SECTION:		RIGHT-OF-WAY WIDTH
POSTED SPEED	MAXIMUM DEGREE OF CURVE	MAXIMUM GRADE
55 MPH	8	7%

MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
N/A				

HAZARD INDEX:

PROPOSED ROADWAY

Typical Section No.: 1: Truck climbing lane from M.P. 13.0 – 13.5: Propose to widen 12 ft. to the left with 8 ft. shoulders.

Typical Section No. 2: from Key Rd. to Scott Rd : Propose to widen 12 ft. to the right at Key Rd, shifting to widening 6 ft. lt. & rt. at Scott Rd. Propose 8 ft. shoulders. A truck climbing lane from M.P. 21.2 to 22.3; widen 12 ft. to the right, with 8 ft. shoulders.

Typical Section No. 3: A truck climbing lanes from MP 17.1 to 19.3, and for SR 20 at Scott Road, Union Hill Rd., and Old Orange Mill Rd.- Widen SR 20 6ft. left and right with 8 ft. shoulders.

Typical Section No. 4 for Scott Rd. ,Union Hill Rd., Old Orange Mill Rd: 2 - 12 ft. lanes, with 6 ft. shoulders.

DESIGN SPEED	MAXIMUM DEGREE OF CURVE		MAXIMUM GRADE	
MPH	ALLOWABLE		ALLOWABLE	
SR 20 : 55 MPH	PROPOSED	8	PROPOSED	7%

PROPOSED MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH
N/A		

PROPOSED RIGHT-OF-WAY

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS		
Variable from 100 ft. To 140 ft.	150	RES.:16	BUS.5	M.H.1

TYPE OF ACCESS CONTROL: Controlled by permit.

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: June 25, 1999

CONFORMS TO TIP/STIP? Yes

MEETS LOGICAL TERMINI REQUIREMENTS? Yes

P.A.R. MEETING: N/R

PERMITS REQUIRED: None

LEVEL OF PUBLIC INVOLVEMENT: Public Information Meeting

TIME SAVING PROCEDURES APPROPRIATE: Yes

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL:	18 MONTHS
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	9 MONTHS
TIME TO COMPLETE 404 PERMIT:	N/R MONTHS
TIME TO COMPLETE FINAL CONSTRUCTION PLANS	7 MONTHS
TIME TO BUY RIGHTS-OF WAY:	24 MONTHS

OTHER PROJECTS IN THE AREA: STP 187 1 (25) P.I. 632840; STP 187 1 (26) P.I. 632845; STP 187 1 (27) P.I. 632850; STP 187 1 (28) P.I. 632855; STP 187 1 (29) P.I. 632860

LOCAL GOVERNMENT COMMITMENTS: Nothing on File

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION: Stage Construction under traffic.
LEVEL OF ENVIRONMENTAL ANALYSIS: Categorical Exclusion
UNDERGROUND STORAGE TANKS: Possible at 3 locations
HAZARDOUS WASTE SITES: None Anticipated

DESIGN VARIATIONS REQUESTED

	YES	NO	UNDETERMINED
SUBST HORIZ ALIGNMENT	(X)	()	()
SUBST ROADWAY WIDTH	()	(X)	()
SUBST SHOULDER WIDTH	()	(X)	()
SUBST VERTICAL GRADES	(X)	()	()
SUBST CROSS SLOPES	()	(X)	()
SUBST STOPPING SIGHT DIST	()	(X)	()
SUBST SUPERELEV RATES	()	(X)	()
SUBST HORIZONTAL CLEARANCE	()	(X)	()
SUBST SPEED DESIGN	()	(X)	()
SUBST VERTICAL CLEARANCE	()	(X)	()
SUBST BRIDGE WIDTH	()	(X)	()
SUBST BR STRUCT CAPACITY	()	(X)	()

ALTERNATIVES CONSIDERED

1. No Build.

ESTIMATED COST

CONSTRUCTION:	4,624,312.50	RIGHT-OF-WAY:	4,374,000.00
E & C (10%):	462,431.25	ACQUIRED BY:	D.O.T.
INFLATION:	508,674.38	REIMBURSABLE UTILITIES:	670,637.54
(2 yrs at 5% per yr):		ADJUSTED BY:	OWNERS
TOTAL CONST COST:	5,595,418.13		

COMMENTS

ATTACHMENTS: Cost Estimate
 Typical Sections
 FEMA Flood Hazard Map
 Location and Design Approval

PREPARED BY: Dennis Thompson

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: STP 012 1 (107)

COUNTY: CHEROKEE

DATE: AUGUST 25, 1999

ESTIMATED LETTING DATE: JULY, 2001

PREPARED BY: DENNIS THOMPSON

PROJECT LENGTH: 4.9 MILES

() PROGRAMMING PROCESS (XX) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$ 375,000.00
2. DISPLACEMENTS; RES:16, BUS;5, M.H.:1	\$ 2,865,000.00
3. OTHER COST (ADM./COST, INFLATION)	\$ 1,134,000.00
SUBTOTAL:A	\$ 4,374,000.00
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 670,637.54
3. SERVICES	\$ 0
SUBTOTAL:B	\$ 670,637.54
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	\$ 0
a. RETAINING WALLS	\$ 0
b. BRIDGES	\$ 0
c. DETOURS BRIDGES	\$ 0
d. BOX CULVERTS	\$ 30,625.00
SUBTOTAL:C-1	\$ 30,625.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK	\$ 660,000.00
b. DRAINAGE: 1) Side Drain Pipe - Underdrain Pipe	\$ 100,200.00
1) Cross Drain Pipe (exclude box culverts)	\$ 60,375.00
2) Curb and Gutter	\$ 7,875.00
3) Longitudinal System(include catch basins)	\$ 16,050.00
SUBTOTAL:C-2	\$ 844,500.00

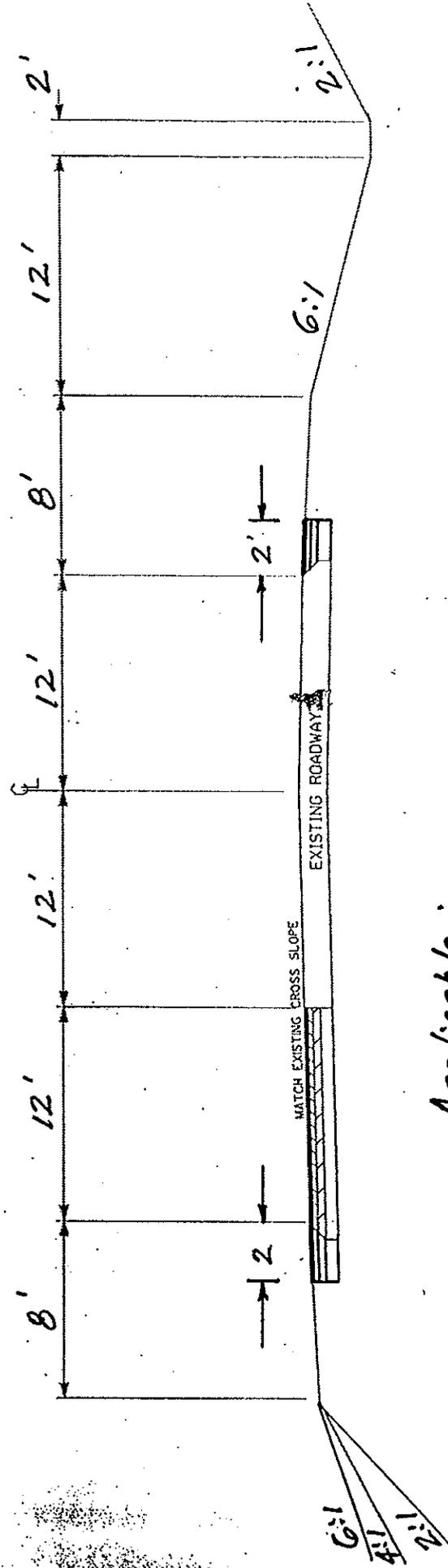
PROJECT COST

3. BASE AND PAVING:		
a. AGGREGATE BASE		\$ 568,500.00
b. ASPHALT PAVING: Surface	\$294,000.0	
Binder	\$431,200.0	
Base	\$744,800.0	
SUBTOTAL:C-3.b		\$ 1,470,000.00
c. CONCRETE PAVING		\$ 0
d. OTHER		\$ 661,737.50
SUBTOTAL:C-3		\$ 2,700,237.50
4. LUMP ITEMS:		
a. TRAFFIC CONTROL		\$ 425,000.00
b. CLEARING AND GRUBBING		\$ 100,000.00
c. LANDSCAPING		\$ 0
d. EROSION CONTROL		\$ 270,825.00
e. DETOURS		\$ 0
SUBTOTAL:C-4		\$ 795,825.00
5. MISCELLANEOUS:		
a. RIGHT OF WAY MARKERS		\$ 34,375.00
b. SIGNING - STRIPING - SIGNAL		\$ 109,000.00
c. GUARDRAIL		\$ 109,750.00
d. SIDEWALK - MEDIAN BARRIER		\$ 0
SUBTOTAL:C-5		\$ 253,125.00
6. SPECIAL FEATURES _____	SUBTOTAL:C-6	\$ 0

ESTIMATE SUMMARY

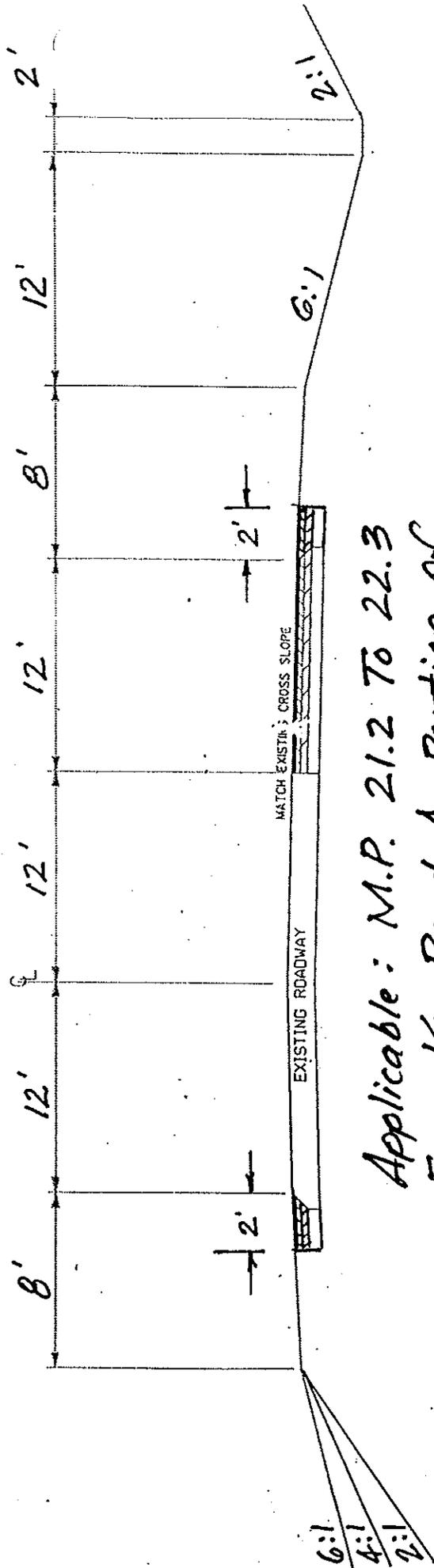
ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$4,374,000.00
B. REIMBURSABLE UTILITIES		\$670,637.54
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$ 30,625.00	
2. GRADING AND DRAINAGE	\$ 844,500.00	
3. BASE AND PAVING	\$2,700,237.50	
4. LUMP ITEMS	\$ 795,825.00	
5. MISCELLANEOUS	\$ 253,125.00	
6. SPECIAL FEATURES	\$ 0	
SUBTOTAL CONSTRUCTION COST	\$4,624,312.50	
E. & C. (10%)	\$ 462,431.25	
INFLATION (5% PER YEAR)	\$ 508,674.38	
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$5,595,418.13 0
GRAND TOTAL PROJECT COST		\$10,640,055.67 0

Typical Section No 1



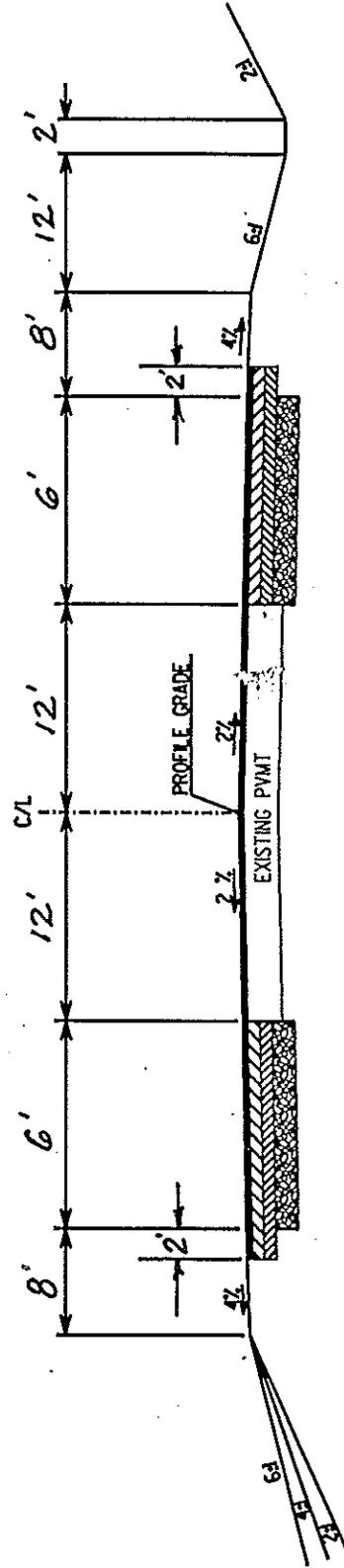
Applicable:
M.P. 13.0 To 13.5

Typical Section No 2



Applicable: M.P. 21.2 To 22.3
From Key Road A Portion of
The way to Scott Road

Typical Section No 3

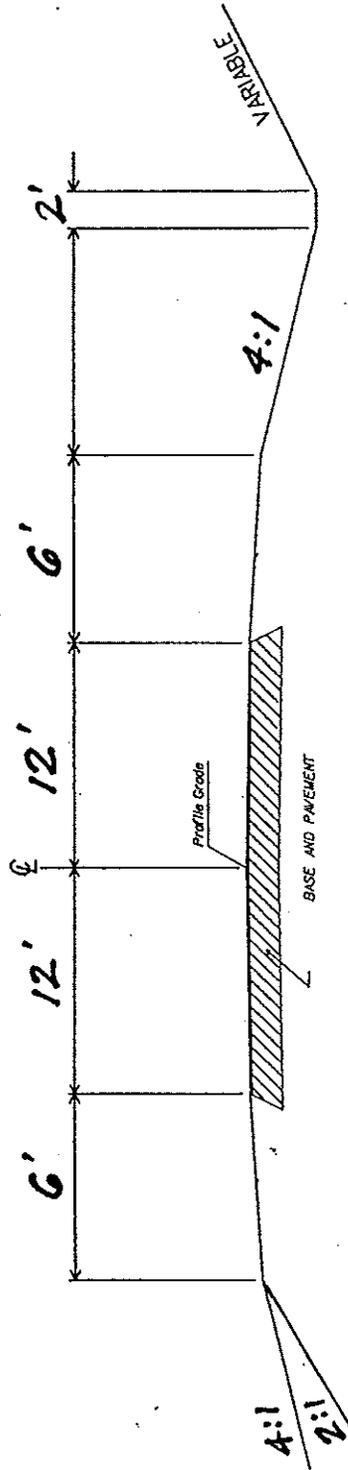


Applicable:

M.P. 17.1 To 19.3

S.R. 20 At Scott Road
 Union Hill Rd.
 Old Orange Mill Rd.

TYPICAL SECTION 4



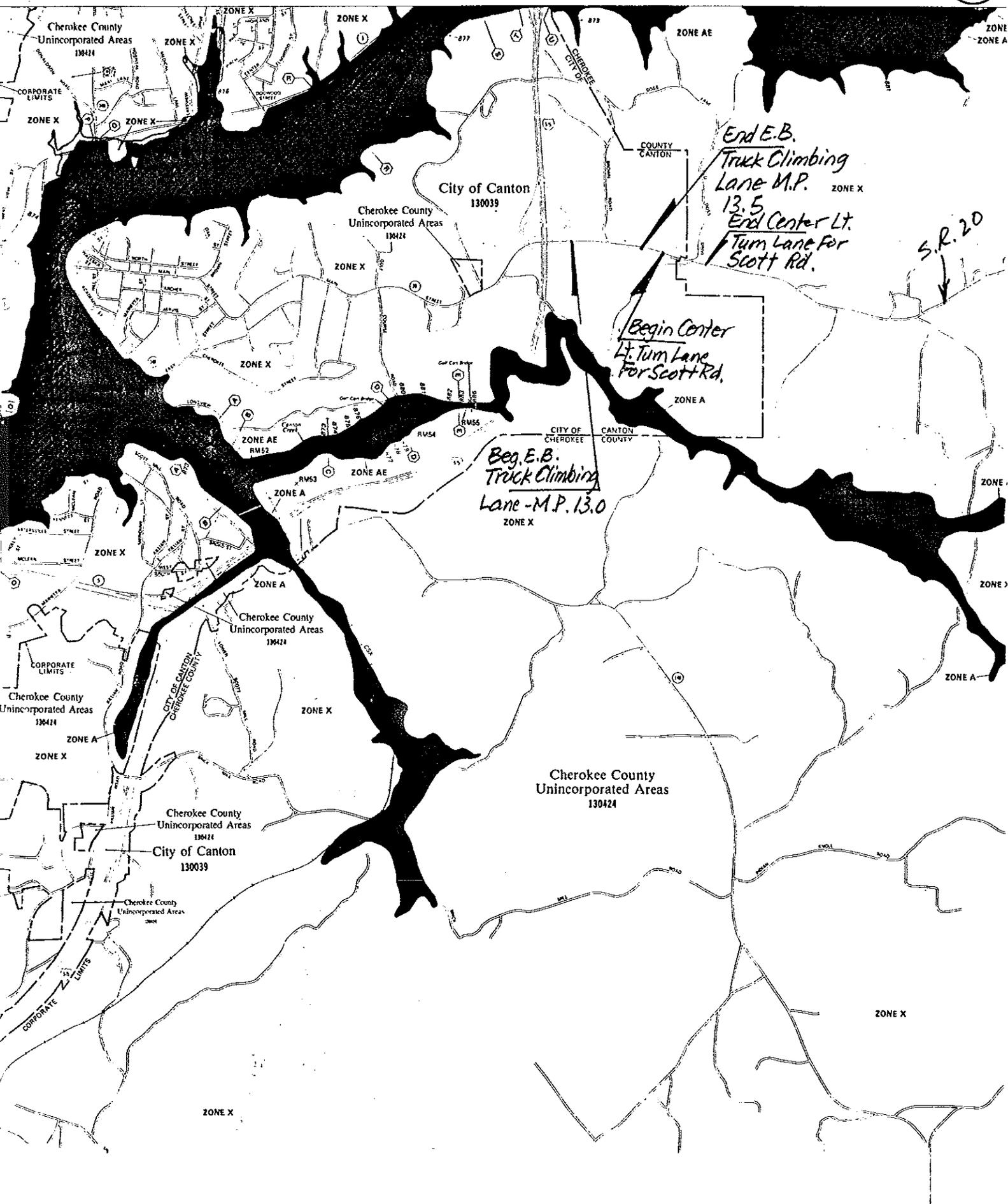
Applicable:

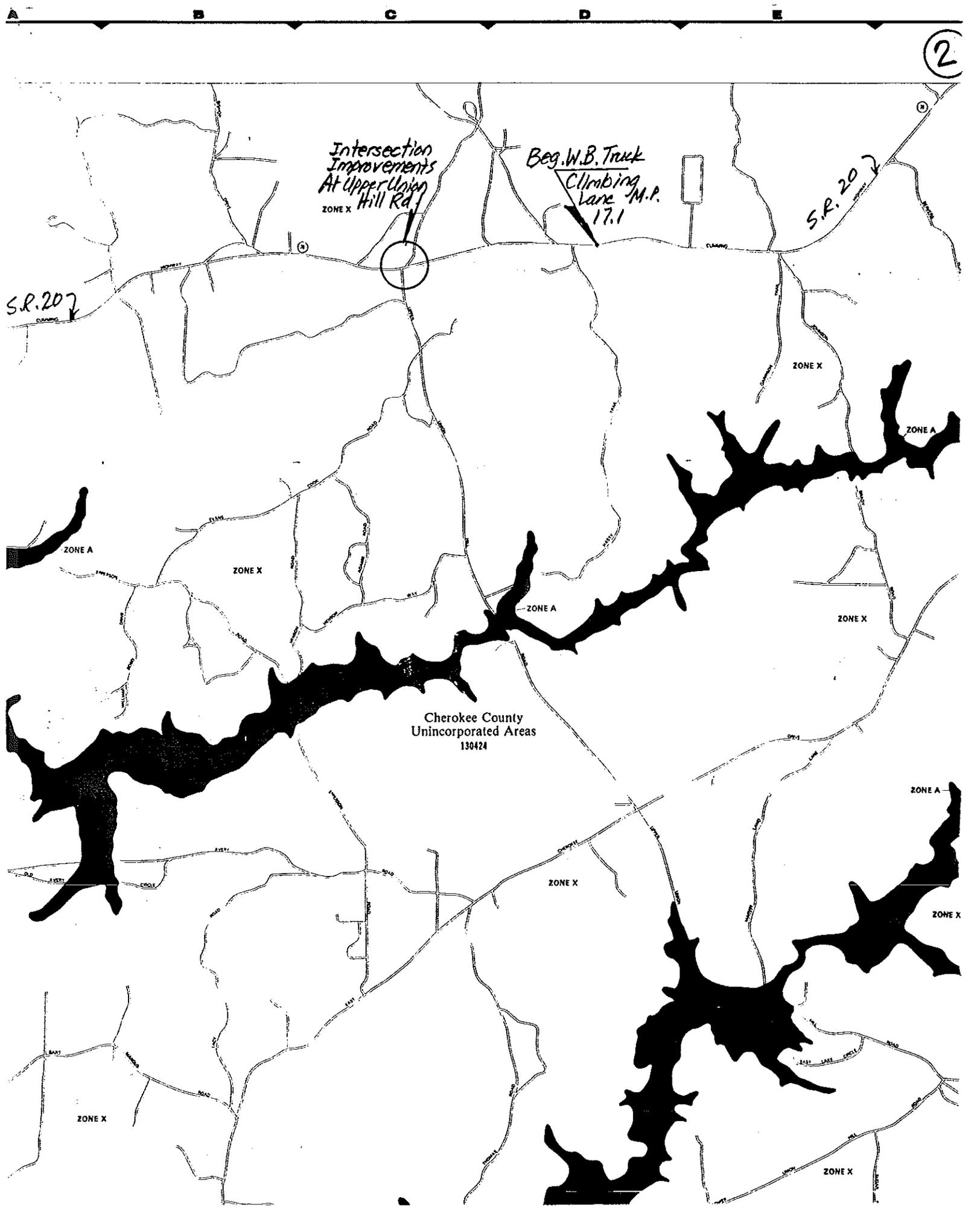
Key Road

Scott Road

Union Hill Road

Old Orange Mill Road





Intersection
Improvements
At Upper Union
Hill Rd
ZONE X

Beg. W.B. Truck
Climbing
Lane M.P.
17.1

S.R. 207

S.R. 207

Cherokee County
Unincorporated Areas
130424

ZONE X

ZONE X

ZONE A

ZONE X

ZONE X

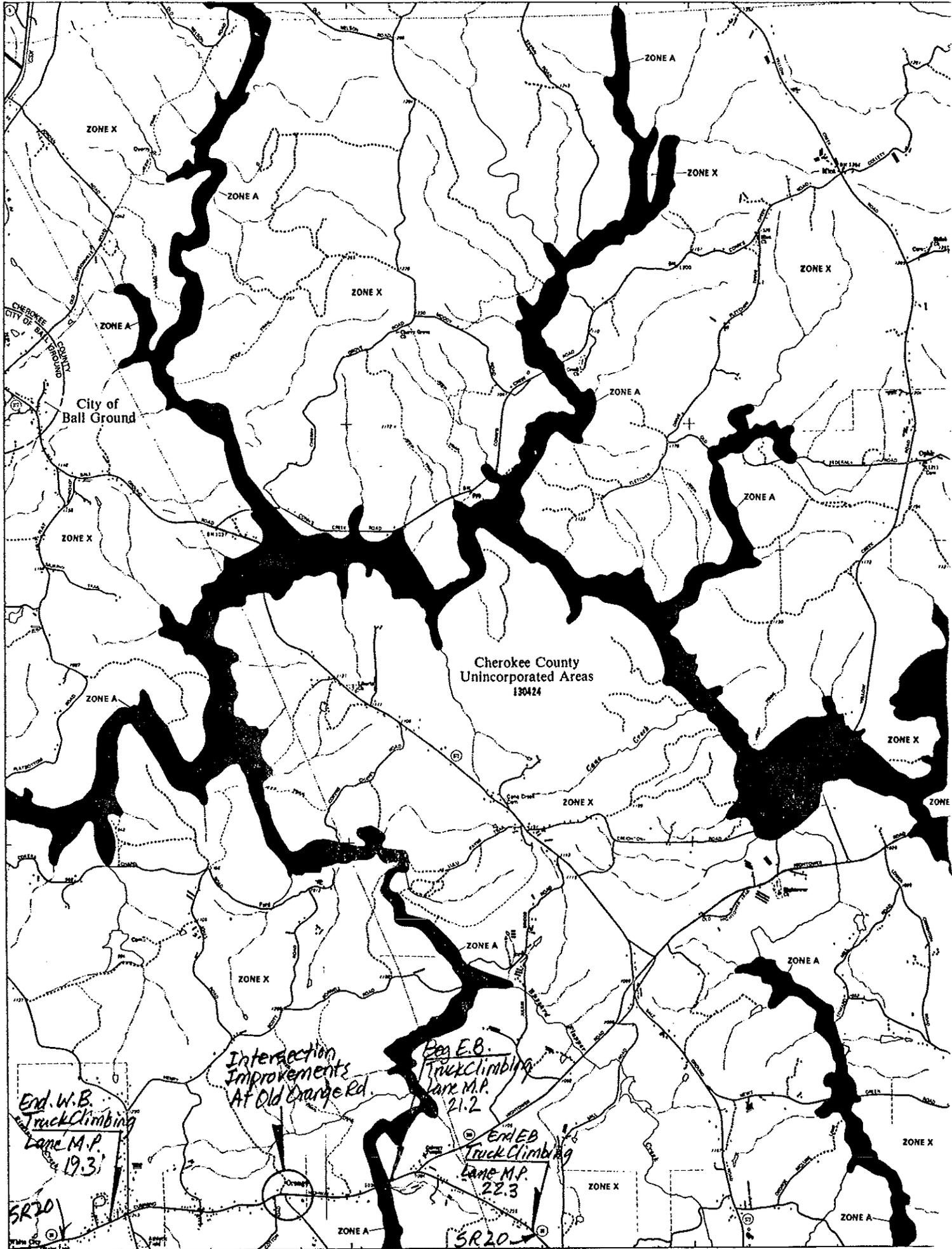
ZONE A

ZONE X

ZONE A

ZONE X

ZONE A



NOTICE OF LOCATION AND DESIGN APPROVAL

STP 012 1 (107) Cherokee
P.I. 632790

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

This project consists of 4.9 Miles of truck climbing lanes and intersection improvements. These improvements will be made in Land Lots 230, and 239 in the 14th District, and Land Lots 939,932,931,930,929,928,873,874,855,854,853,805,775,773,772,771,742,770,769,816,817, and 840, in the 3rd District, Cherokee County, Georgia.

Date of Location and Design approval:

This project will construct 4.9 miles of truck climbing lanes and 3 intersection improvements on State Route 20 between I 575 and the Forsyth County line. Truck climbing lanes will be built at M.P. 13.0 – 13.5; M.P. 17.1 – 19.3; M.P. 21.2 – 22.3; also, intersection improvements will be made to Scott Road, Upper Union Hill Rd., and Old Orange Road.

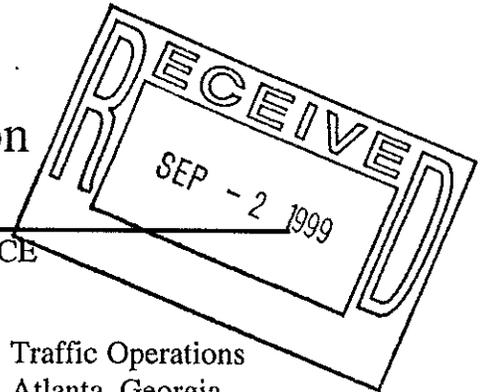
Drawings or maps of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation, 500 Joe Frank Harris Parkway, Cartersville, Georgia, 30120. Or, any interested party may obtain a copy of the drawings, maps of plats by writing to the Georgia Department of Transportation, No. 2 Capitol Square, Atlanta, Georgia, 30334, and paying a nominal cost therefor.

Any written request in reference to this Notice SHOULD include the PROJECT AND P.I. NUMBER AS NOTED AT THE TOP OF THIS NOTICE, and may be referred to:

James Hullett
Preconstruction Office
500 Joe Frank Harris Parkway
Cartersville, Georgia 30120
770-387-3619

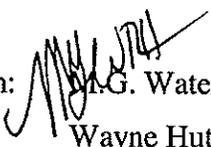
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE



File: STP-012-1(107)/Cherokee County
P.I. No. 632790

Office: Traffic Operations
Atlanta, Georgia
Date: September 1, 1999

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the intersection improvements and climbing lanes along SR 20 from I-575 proceeding easterly to SR 369, a distance of 4.9 miles.

SR 20 is currently a two lane rural roadway with a posted speed limit of 55mph. The AADT will double by the design year of 2024 and these improvements are needed.

Truck climbing lanes will be built along four sections of this roadway in both the eastbound and westbound directions. Intersection improvements will be done at Key Road, Scott Road, Upper Union Hill Road and Harmony Circle, and Old Orange Mill Road.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill
Charles Law, P.E., District Engineer, Cartersville
Attention: Jim Hullett
David Mulling, w/ attachment
Marta Rosen
General Files

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA
 OFFICE OF ROAD AND AIRPORT DESIGN

PROJECT CONCEPT REPORT

STP 012 - 1 - (107) CHEROKEE COUNTY

P.I. NUMBER 632790

Federal Route No.: F 12 -1

Date of Report: August 25, 1999

State Route No.: 20

RECOMMENDATION FOR APPROVAL

8-25-99

Date

James W. Hullett Jr.
 Project Manager

This project concept is contained in the Regional Transportation Improvement Program (RTIP) and/or in the State Transportation Improvement (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and/or the STIP.

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

State Road Design Engineer

8/25/99

Date

Charles Jew
 District Engineer

Date

Project Review Engineer

9-2-99

Date

Marion Hulet
 State Traffic Operations Engineer

Date

State Bridge & Structural Engineer