ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-IM-575-1(32) Cherokee County
P. I. No. 611260

OFFICE Preconstruction

DATE March 28, 2002

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:

David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Jim Kennerly
Kent Sager
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-IM-575-1(32) Cherokee County
P.I. No. 611260

OFFICE Preconstruction

DATE February 18, 2002

FROM C. Wayne Hutto, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project is the construction of auxiliary lanes on I-575 between SR 20 and SR 5 Business for a total of 0.50 mile. Traffic increases on I-575 between the two interchanges, and decreases once it moves north and south of the area. The traffic can be attributed to accelerated growth in the SR 20 and the SR 5 Business corridors and in an increase of motorists trying to access I-575 from the two corridors. The need exists to provide a continuous movement of the traffic between SR 20, SR 5 Business, and I-575. The auxiliary lane will increase capacity and improve the level of service for this portion of the roadway.

The construction proposes to add an auxiliary lane between SR 20 and SR 5 Business on both the northbound and southbound side of I-575. The proposed typical section will consist of six, 12' lanes (3 in each directions) separated by a 64' grassed median with 14' shoulders (10' paved). This project does not require any reconfiguration or widening of ramps. Traffic will be maintained during construction.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$757,000	$1,000,000	2003	02-12
Right-of-Way & Utilities*	-0-	-0-		

*City of Canton signed LGPA for utilities.

NH-IM-575-1(32) Cherokee
February 18, 2002

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

CWH:JDQ/cj

Attachment

CONCUR Thomas L. Turner
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE Floyd Moore
for Division Administrator, FHWA

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: NH-IM-575-1(32) Cherokee
P.I. Number 611260-

OFFICE: Engineering Services

DATE: February 8, 2002

FEB 12 2002

FROM: David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted January 29, 2002 by the letter from James A. Kennerly dated January 23, 2002, and have the following comments:

1. The Need and Purpose Statement should clearly identify and describe the problems or other needs that the proposed action is intended to fix. A summarization of supporting data to clarify the problems, such as accident data, traffic capacity, level of service, etc. should also be presented in the Need and Purpose Statement. See Page 97, Appendix B, of the Plan Development Process for guidance.
2. In the concept cost estimate no quantities and unit prices were shown for several items of work. The costs can not be verified without this information.
3. No information is presented in the Project Responsibilities Section of the report.
4. In the Coordination Section of the report the concept meeting is incorrectly shown as pending.

The costs for the project are:

Construction	$573,000
Inflation	$115,000
E&C	$ 69,000
Reimbursable Utilities	$ 0
Right of Way	$ 0

DTM

c: Jim Kennerly

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
NH-IM-575-1(32)	CHEROKEE	611260-

Report Date: 1/23/02	**Concept By:**
	DOT Office: ROAD DESIGN
☒ CONCEPT	
	Consultant: N/A

Project Type: Choose One From Each Column	☒ Major ☐ Minor	☐ Urban ☒ Rural	☐ ATMS ☐ Bridge ☐ Building ☐ Interchange ☐ Intersection ☒ Interstate ☐ New Location ☐ Widening & Reconstruction ☐ Miscellaneous

FOCUS AREAS	SCORE	RESULTS
Presentation	80%	Problems justifying proposed action with summarization of supporting data should be in Need & Purpose Statement. Unit prices & quantities missing from concept cost estimate. Responsibility Section incomplete. Concept meeting date shown as pending.
Judgement	100%	
Environmental	100%	
Right of Way	100%	
Utility	100%	
Constructability	100%	
Schedule	100%	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH-IM-575-1 (32)
P.I. # 611260

OFFICE Road Design

DATE January 23, 2002

FROM James A. Kennerly, State Road and Airport Design Engineer

TO C. Wayne Hutto, Assistant Director of Preconstruction

JAN 29 2002

SUBJECT Project Concept Report

Attached is the original copy of the Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

JAK:jlm

Attachment

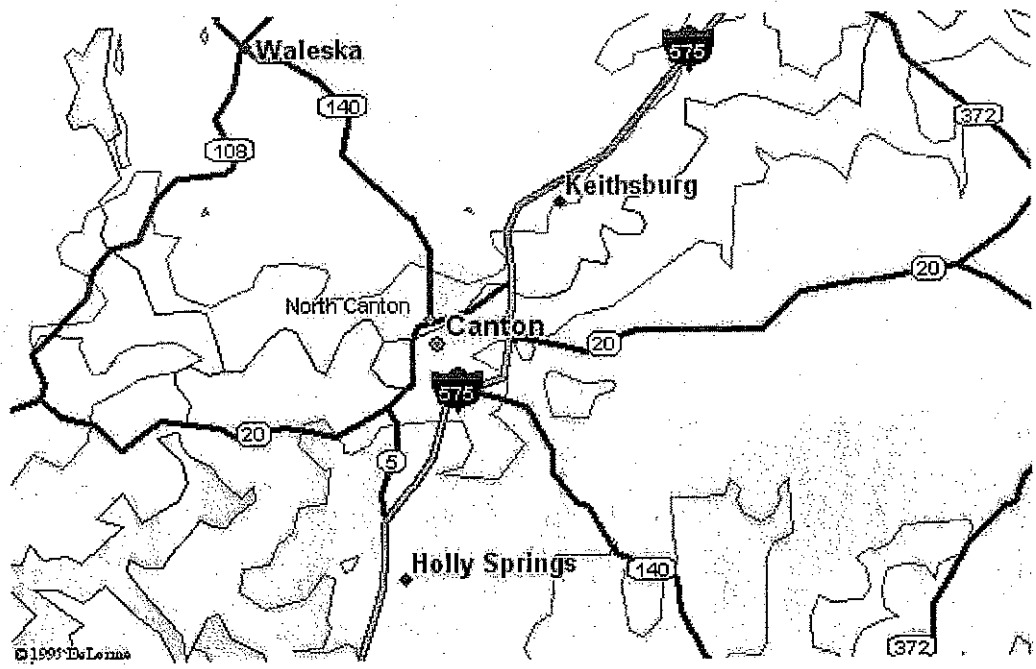
Distribution:

Marta V. Rosen, State Transportation Planning Administrator
Herman Griffin, State Transportation Programming Engineer
Harvey Keepler, State Environmental/Location Engineer
Phillip Allen, State Traffic Safety & Design Engineer
Kent Sager, District Engineer
David Mulling, Project Review Engineer

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



Recommendation for approval:

DATE 1-23-2002 — Project Manager

DATE 1-27-2002 — Office Head/District Engineer

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

DATE _____ State Transportation Planning Administrator

DATE _____ State Transportation Programming Engineer

DATE _____ State Environment/Location Engineer

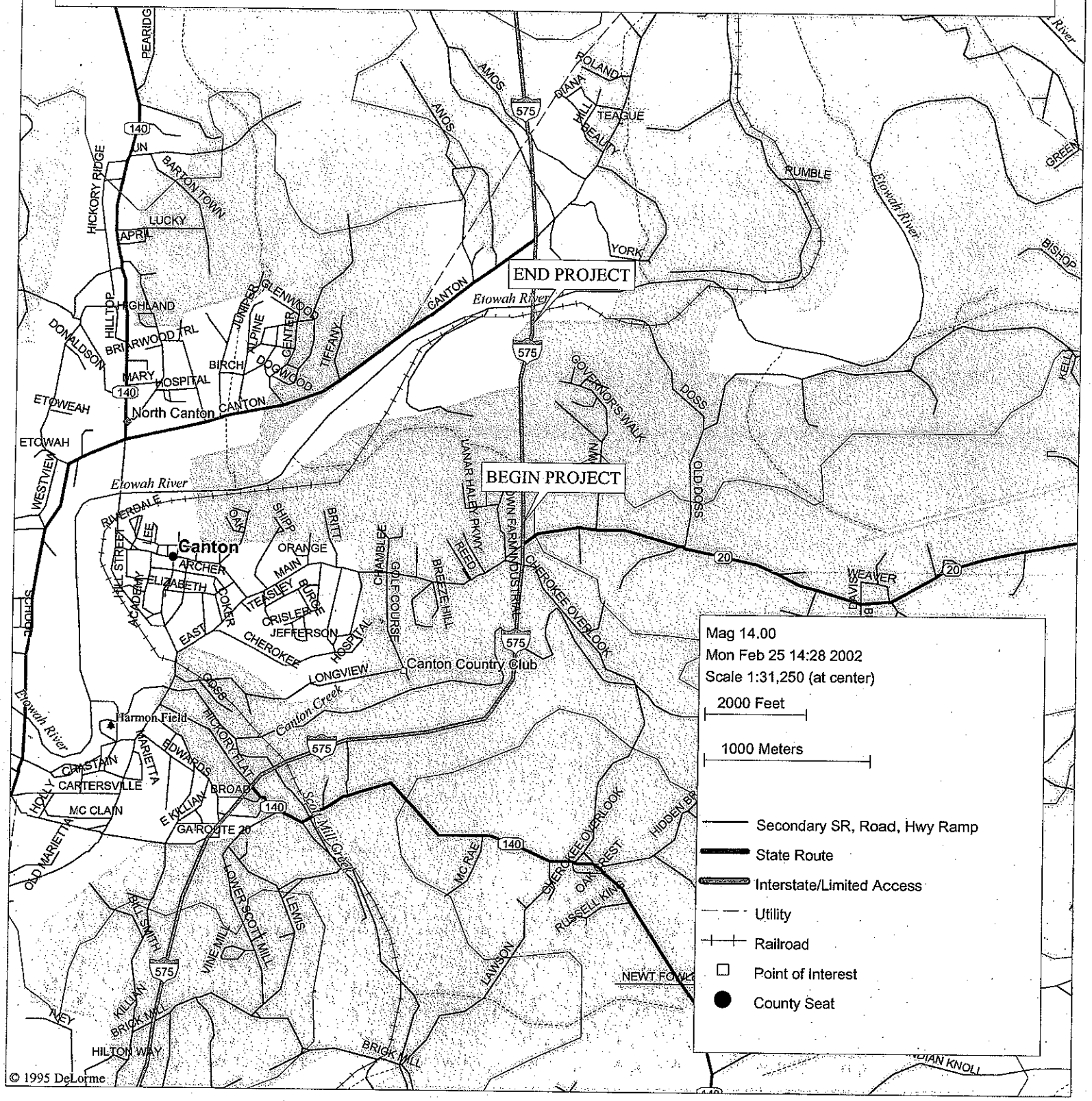
DATE _____ State Traffic Safety & Design Engineer

DATE _____ District Engineer

DATE _____

Project Concept Report Page 2
Project Number: NH-IM-575-1 (32)
P.I. Number: 611260
County: Cherokee

PROJECT MAP - Project No. NH-IM-575-1 (32) CHEROKEE COUNTY



Need and Purpose: The purpose of this project is to improve the efficiency of motorists traveling from S.R. 20 and SR 5 (bus) onto I-575. The traffic can be attributed to accelerated growth in the S.R. 20 and SR 5 (bus) corridors and in an increase of motorists trying to access I-575 from the two corridors.

The need exists to provide a continuous movement of the traffic between S.R. 20, SR 5 (bus) and I-575. The auxiliary lane would increase capacity and improve the Level of Service for this portion of roadway. The project will also reduce vehicle delays, improve weaving operations on I-575 between interchanges, and enhance safety.

Description of the proposed project: This project proposes to add an auxiliary lane between S.R. 20 and S.R. 5 Business on both the Northbound and Southbound side of I-575. The project will begin at a point just north of S.R. 20 and continue north for approximately 0.50 mile to point just south of S.R. 5 Business. The proposed project does not include the reconfiguration or widening of any ramps.

Is the project located in a Non-attainment area? ___X___ **Yes** ____ **No**

PDP Classification:
Full Oversight (X), Exempt ( ), State Funded ( ), or Other ( )

Functional Classification: Interstate Principal Arterial

U.S. Route Number(s): N/A **State Route Number(s):** 5

Traffic (AADT):
Current Year: (2000) 35,000 Design Year: (2020) 55,000

Existing design features:

- Typical Section: Four 12' wide lanes(Two each direction) separated by a 64' grassed median with 14' shoulders(10' paved/4'grassed).
- Posted speed: 65 mph Maximum degree of curvature: 1°30'
- Maximum grade: 2.80 % on mainline
- Width of right of way: 400 feet
- Major structures: None
- Major interchanges or intersections along the project:
  I-575 @ S.R. 20
  I-575 @ S.R. 5 BUSINESS
- Existing length of roadway: 0.50 mile

Proposed Design Features:

- Proposed typical section: 6 - 12' lanes(3 each direction) separated by a 64' depressed grass median with 14' shoulders(10' paved/4'grass).
- Proposed Design Speed Mainline: 65 mph
- Proposed Maximum grade Mainline: 2.90 % Maximum grade allowable: 4.0 %
- Proposed Maximum grade Side Street: N/A Maximum grade allowable: N/A
- Proposed Maximum grade driveway: N/A
- Proposed Maximum degree of curve: 1°30' Maximum degree allowable: 3° 45'
- Right of way
  - Width : 400'
  - Easements: Temporary ( ), Permanent ( ), Utility ( ), Other ( )
  - Type of access control: Full ( ), Partial ( ), By Permit( ), Other (X)
  - Number of parcels: 0 Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile Homes: 0
    - Other: 0

- Structures: None
- Major intersections:
  I-575 @ S.R. 20
  I-575 @ S.R. 5 BUSINESS
- Traffic control during construction: Two way traffic will be maintained by utilizing stage construction on this project.
- Design Exceptions to controlling criteria anticipated:

	Undetermined	Yes	No
HORIZONTAL ALIGHMENT:	( )	( )	(X)
ROADWAY WIDTH:	( )	( )	(X)
SHOULDER WIDTH:	( )	( )	(X)
VERTICAL GRADES:	( )	( )	(X)
CROSSING SLOPES:	( )	( )	(X)
STOPPING SIGHT DISTANCE:	( )	( )	(X)
SUPERELEVATION RATES:	( )	( )	(X)
HORIZONTAL CLEARNACE:	( )	( )	(X)
SPEED DESIGN:	( )	( )	(X)
VERTICAL CLEARANCE:	( )	( )	(X)
BRIDGE WIDTH:	( )	( )	(X)
BRIDGE STRUCTURAL CAPACITY	( )	( )	(X)

- Design Variances: None
- Environmental concerns: Permits required include Section 404, U.S. Army Corps of Engineers Nationwide Permit.
- Level of environmental analysis:
- Are Time Savings Procedures appropriate? Yes (X) No ( )
- Categorical exclusions (X)
- Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
- Environmental Impact Statement (EIS) ( )
- Utility involvement: Not known

Project responsibilities:

- Design - GDOT
- Right of Way Acquisition – GDOT (if req'd)
- Relocation of Utilities – Owner of Utility(if req'd)
- Letting to contract - GDOT
- Supervision of construction - GDOT
- Providing material pits – Construction Contractor
- Providing detours – Stage Construction Req'd

Coordination:

- Initial Concept Meeting date and brief summary. ~~Pending~~ HELD
- Concept meeting date and brief summary. ~~Pending~~ - ATTACHED
- P.A.R. meetings, dates and results. No meeting held
- FEMA, USCG and/or TVA. No coordination
- Public involvement. N/A
- Local government comments. Pending
- Other projects in the area: None

Scheduling - Responsible Parties' Estimate:

- Time to complete the environmental process: 8 Months
- Time to complete preliminary construction plans: 2 Months
- Time to complete right of way plans: N/A
- Time to complete the Section 404 Permit: 8 Months
- Time to complete final construction plans: 2 Months
- Time to complete to purchase right of way: N/A

List other major items that will affect the project schedule: N/A

Other Alternates Considered: No build

Comments: None

Attachments:

1. Cost Estimates:
    a. Construction including E & C
    b. Right of way, and
    c. Utilities

2. Sketch location map,
3. Typical sections,
4. Planning Schematic,
5. Accident summaries,
6. Minutes of Initial Concept Meeting.

Concur: _____
Director of Preconstruction

Approve: _____
Division Administrator, FHWA

Approve: _____
Chief Engineer

Project Number: NH-IM-575-1 (32)
P.I. Number: 611260
County: Cherokee

SUMMARY OF PROJECT COST

DATE: January 8, 2002 ESTIMATED LETTING DATE: November, 2005

PREPARED BY: C. Andy Casey PROJECT LENGTH (MILES): 0.50

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

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	$ -0-
2. DISPLACEMENTS; RES:0, BUS;0, M.H.:0	$ -0-
3. OTHER COST (ADM./COST, INFLATION)	$ -0-
SUBTOTAL:A	$ -0-
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	
2. TRANSMISSION LINES	$
3. SERVICES	$
SUBTOTAL:B	$ -0-
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	
a. RETAINING WALLS	$
b. BRIDGES	$
c. DETOURS BRIDGES	$
d. BOX CULVERTS	$
SUBTOTAL:C-1	$ -0-
2. GRADING AND DRAINAGE:	
a. EARTHWORK	$ 50,000

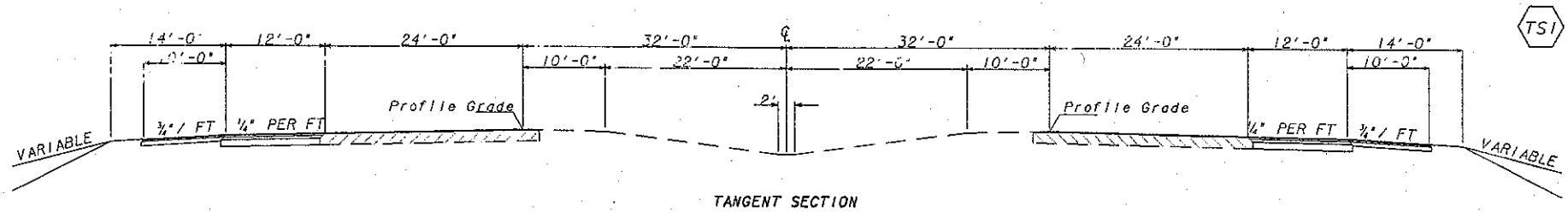
b. DRAINAGE:			
1) Cross Drain Pipe (exclude box culverts)			$ 15,000
2) Curb and Gutter			$
3) Longitudinal System(include catch basins)			$ 10,000
		SUBTOTAL:C-2	$ 75,000
3. BASE AND PAVING:			
a. AGGREGATE BASE	$13.06 x 9000 tons		$ 117,540
b. ASPHALT PAVING:	Surface$38.55 x 1,064 tons	$ 41,017	
	Binder $37.10 x 1,420 tons	$ 52,682	
	Base $35.31 x 5,000 tons	$176,550	
	SUBTOTAL:C-3.b	$270,249	
c. CONCRETE PAVING			
d. OTHER			
		SUBTOTAL:C-3	$ 387,789
4. LUMP ITEMS:			
a. TRAFFIC CONTROL			$ 25,000
b. CLEARING AND GRUBBING			$ 25,000
c. LANDSCAPING			$
d. EROSION CONTROL			$ 35,000
e. DETOURS			$
		SUBTOTAL:C-4	$ 85,000
5. MISCELLANEOUS:			$
a. LIGHTING			$
b. SIGNING - STRIPING - SIGNAL			$ 25,000
c. GUARDRAIL			$
d. SIDEWALK - MEDIAN BARRIER			$
		SUBTOTAL:C-5	$ 25,000
6. SPECIAL FEATURES_____		SUBTOTAL:C-6	$

Project Concept Report Page 9
Project Number: NH-IM-575-1 (32)
P.I. Number: 611260
County: Cherokee

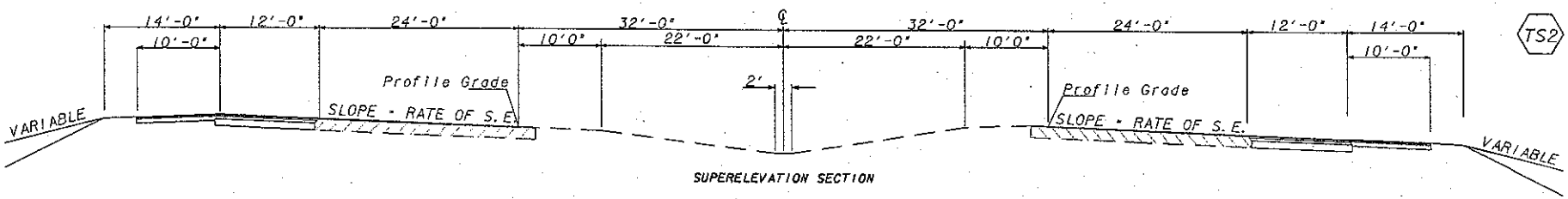
ESTIMATE SUMMARY		
A. RIGHT-OF-WAY	$ -0-	
B. REIMBURSABLE UTILITIES	$ -0-	
C. CONSTRUCTION		
1. MAJOR STRUCTURES	$ -0-	
2. GRADING AND DRAINAGE	$ 75,000	
3. BASE AND PAVING	$ 387,789	
4. LUMP ITEMS	$ 85,000	
5. MISCELLANEOUS	$ 25,000	
6. SPECIAL FEATURES	$ -0-	
SUBTOTAL CONSTRUCTION COST	$ 572,789	
E. & C. (10%)	$ 57,278	
INFLATION (5% PER YEAR)	$ 135,784	
NUMBER OF YEARS 4		
TOTAL CONSTRUCTION COST	**$**	**765,851**
GRAND TOTAL PROJECT COST	**$**	**765,851**

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NH-IM-575-1(32)		

TYPICAL SECTIONS
I-575



TANGENT SECTION



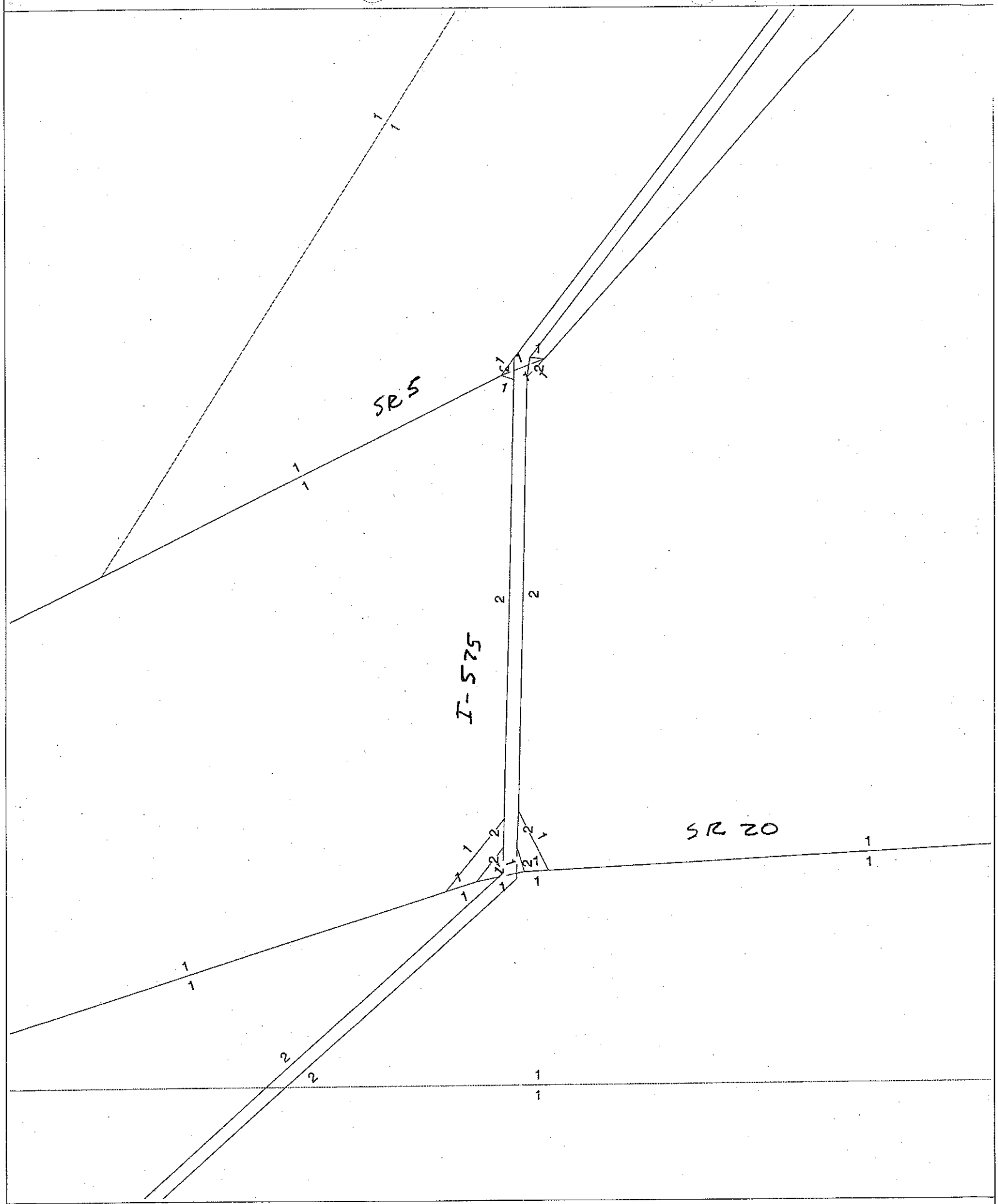
SUPERELEVATION SECTION

NH-IM-575-1(32)

TYPICAL SECTIONS
1&2

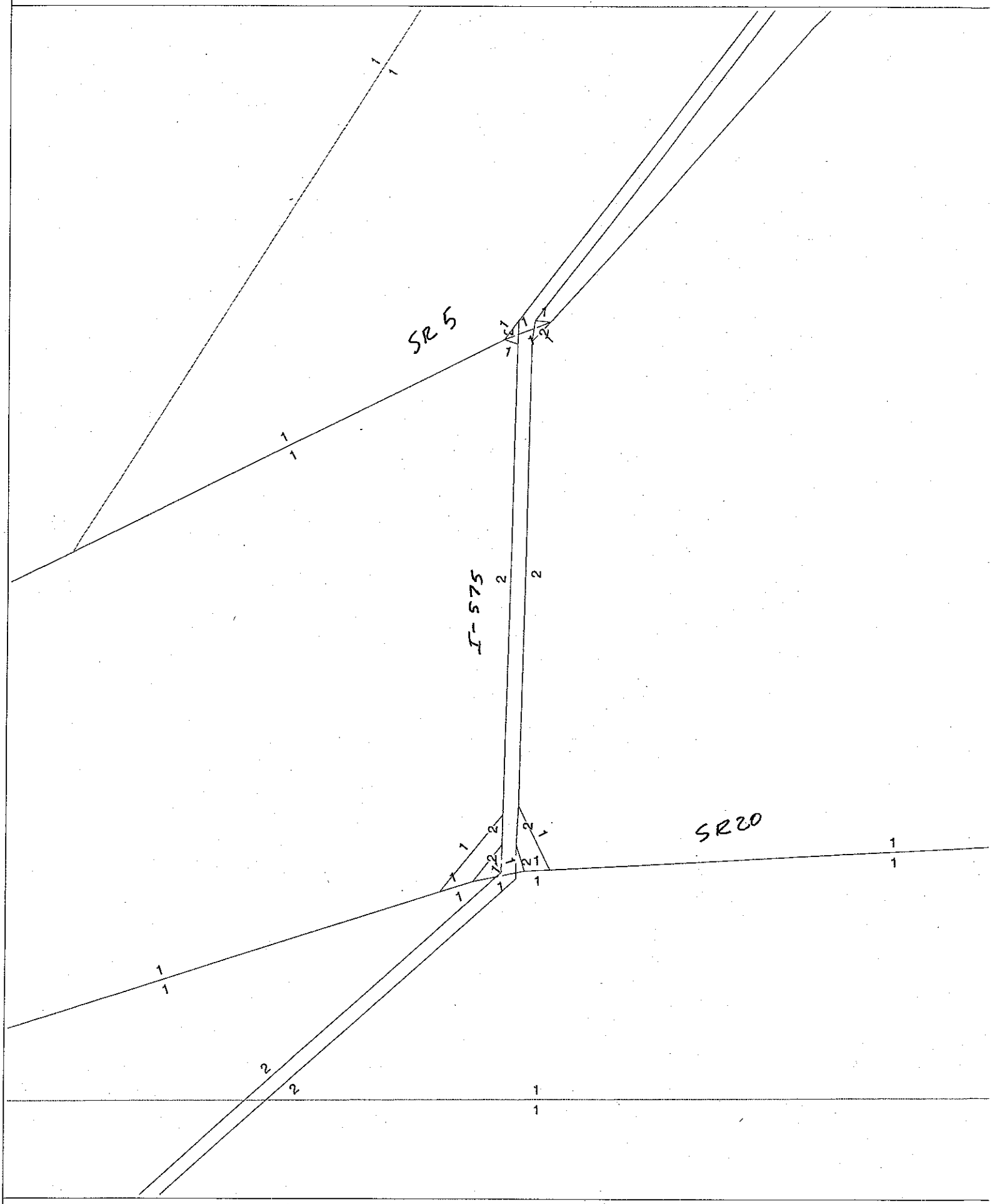
SHOWDATETIME$$$$$$
DGN#SPECIFICATION$$$$$$$$$$$$$$$$$$$$$$$$$$$$

I-5 From SR 20 to SR 5 2000



Cherokee County #611250 January 2002

I-575 From SR 5 to SR 20 2005



Cherokee County #611250 January 2002

Accident Data
For
NH-IM-575-1(32) Cherokee Co.
P.I. No. 611260

Year	Number of Accidents	Number of Injuries	Number of Fatalities
1995	7	2	0
1996	7	4	2
1997	5	3	0

Concept Team Meeting Minutes
NH-IM-575-1 (31)&(32)&(33)
Cherokee County

The meeting came to attention at approximately 1:30 p.m. on October 11, 2001 in the Road Design conference room. The following persons were in attendance for this meeting:

1. Honorable William G. Hasty, Sr., Member State Transportation Board
2. Joe Leoni - GDOT
3. Jason McCook - GDOT
4. Andy Casey – GDOT
5. Dee Corson – GDOT
6. Royce Turner – GDOT
7. Scott Kordys – GDOT
8. David Mulling – GDOT
9. Brook Martin – GDOT

The meeting started with detailed descriptions of all three projects by Jason McCook.

Mr. Hasty commented on the need of the projects.

The floor was then open for comments:

David Mulling from GDOT Engineering Services commented on the need for lump sum items in the cost estimate to be more detailed. He also stated the need for R/W and Utilities cost estimates to be included into the project cost estimates. He also ask if the pavement section on the ramps would be concrete or asphalt.

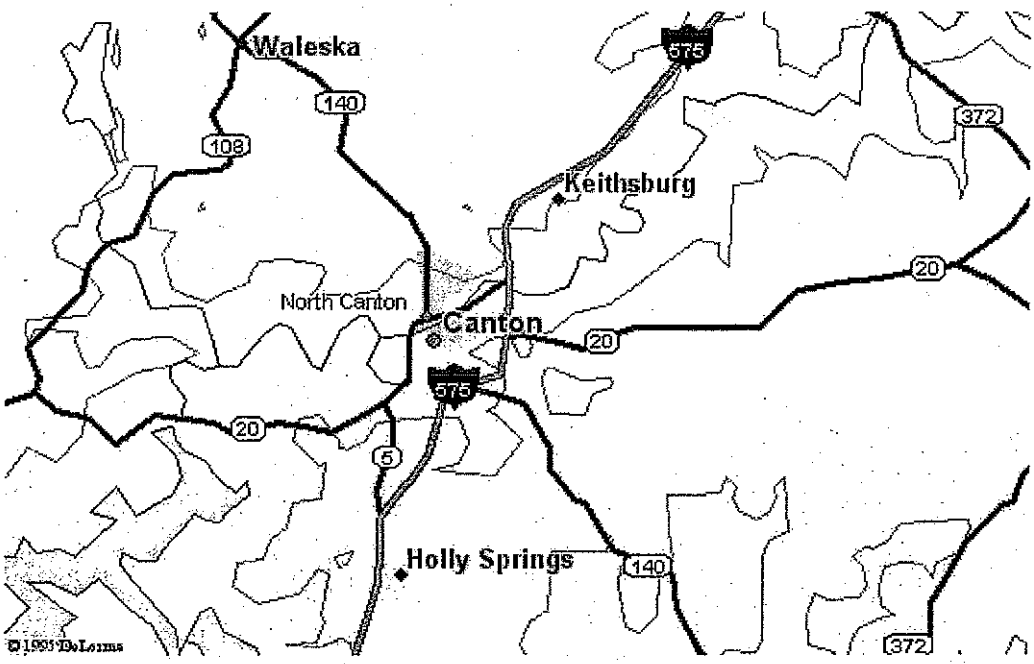
Dee Corson from GDOT District 6 Traffic Operations commented on the need for lighting at the interchanges.

The meeting adjourned at 2:15 p.m.

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



Recommendation for approval:

DATE 1-23-2002 _____ Project Manager

DATE 1-27-2002 _____ Office Head/District Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environment/Location Engineer

DATE _____ _____ State Traffic Safety & Design Engineer

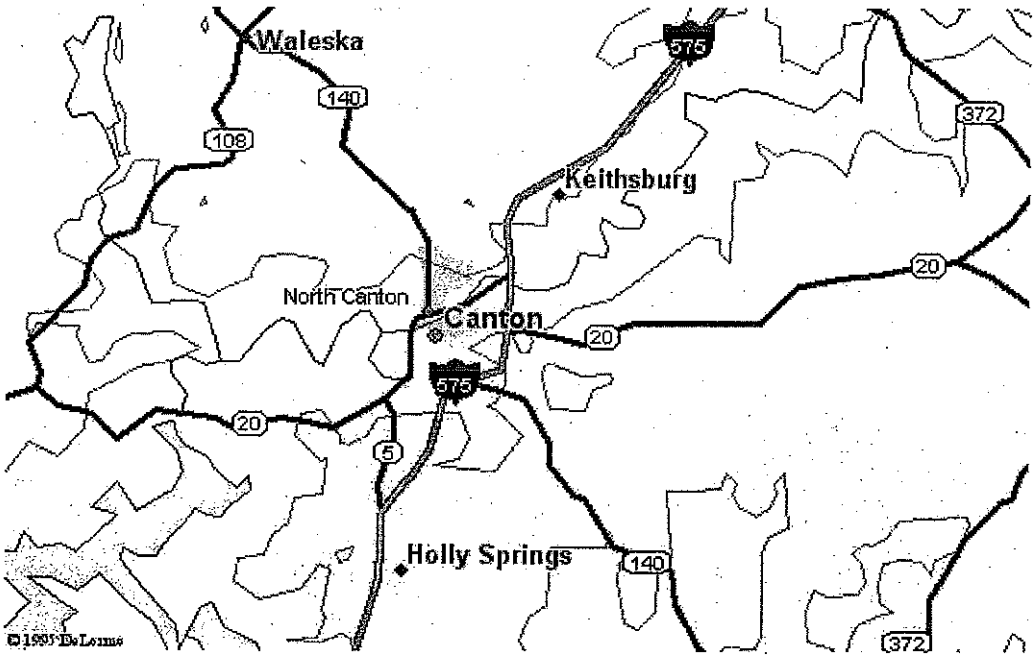
DATE 1/29/02 _____ District Engineer

DATE _____ _____

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



Recommendation for approval:

DATE 1-23-2002 _____ Project Manager

DATE 1-27-2002 _____ Office Head/District Engineer

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

DATE 1/31/02 _____ State Transportation Planning Administrator

DATE _____ State Transportation Programming Engineer

DATE _____ State Environment/Location Engineer

DATE _____ State Traffic Safety & Design Engineer

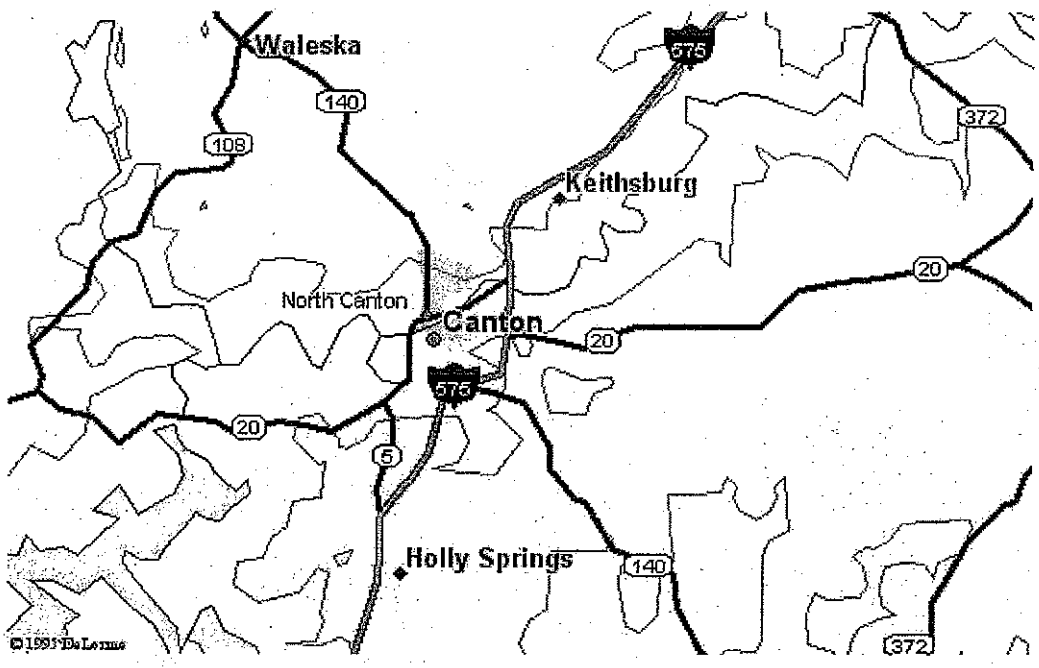
DATE _____ District Engineer

DATE _____

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



Recommendation for approval:

DATE 1-23-2002 _____ Project Manager

DATE 1-21-2002 _____ Office Head/District Engineer

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

DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE 2/4/02 _____ State Environment/Location Engineer

DATE _____ _____ State Traffic Safety & Design Engineer

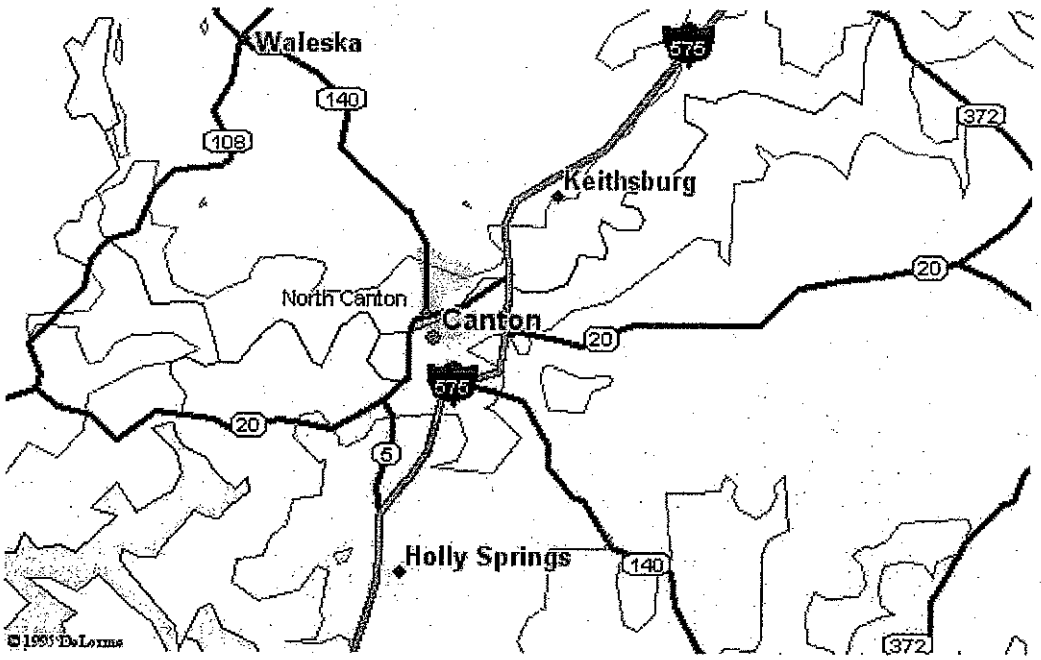
DATE _____ _____ District Engineer

DATE _____ _____

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



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DATE 1-23-2002 _____ Project Manager

DATE 1-27-2002 _____ Office Head/District Engineer

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DATE _____ _____ State Transportation Planning Administrator

DATE _____ _____ State Transportation Programming Engineer

DATE _____ _____ State Environment/Location Engineer

DATE _____ _____ State Traffic Safety & Design Engineer

DATE _____ _____ District Engineer

DATE 2/11/02 _____

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: NH-IM-575-1(32), Cherokee County
P.I. No. 611260

Office: Traffic Safety & Design
Atlanta, Georgia
Date: February 4, 2002

PMA

From: Phillip M. Allen, State Traffic Safety and Design Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the above referenced concept report for the proposed auxiliary lanes along I-575 between SR 20 & SR 5 bus. in Cherokee County.

The Office of Traffic Safety & Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/sz

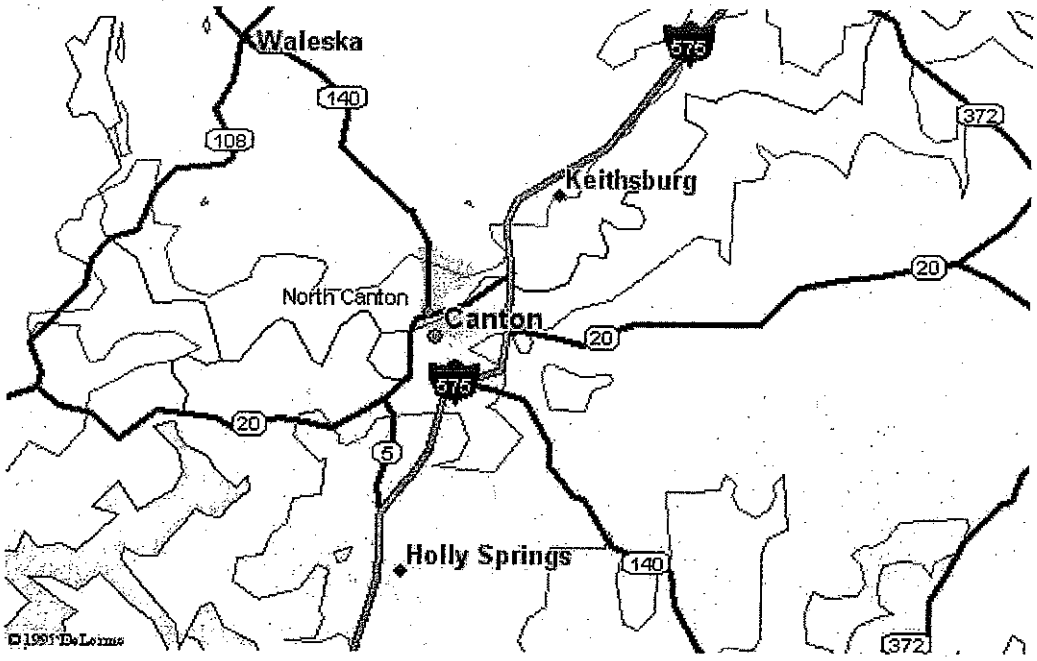
Attachment (signature page)

Cc: Harvey Keepler, State Environment/Location Engineer
James A. Kennerly, State Road & Airport Design Engineer
Attention: Jason McCook
Kent L. Sager, District Engineer
Attention: William M. Darby, District Design Engineer
David Mulling, State Review Engineer, w/ attachment
Marta Rosen, State Transportation Planning Administrator
Chuck Hasty, TMC
General Files
Office Files

DEPARTMENT OF TRANSPORTATION
STATE OR GEORGIA
Office of Road and Airport Design

Project Number: NH-IM-575-1 (32)
County: Cherokee
P.I. Number: 611260

Federal Route Number: I-575
State Route Number: 5



Recommendation for approval:

DATE 1-23-2002 — Project Manager

DATE 1-27-2002 — Office Head/District Engineer

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DATE _____ — State Transportation Planning Administrator

DATE _____ — State Transportation Programming Engineer

DATE _____ — State Environment/Location Engineer

DATE 2/4/02 — Phillip M. Allen — State Traffic Safety & Design Engineer

DATE _____ — District Engineer

DATE _____