D.O.T. 66

ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-27(93) Chattooga/Walker Counties
P.I. No. 621610

OFFICE Preconstruction

DATE September 6, 1995

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **REVISED CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

John Lively
Bobby Mustin
David Studstill
Herman Griffin
Jim Kennerly
Darrell Elwell
Marion Waters
Paul Liles
Charles Law
Toni Dunagan

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS 27(93),Chattooga/Walker
P.I. No. 621610

OFFICE Environment/Location
DATE August 10, 1995

FROM David E. Studstill, P.E., State Environment/Location Engineer

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

SUBJECT **Revised Project Concept Report** - U.S. 27/S.R. 1 Improvements

Description of proposed concept change: EDS 27(93), as approved and programmed, is proposed to widen U.S. 27/S.R. 1 from C.R. 331/Center Avenue in Trion in Chattooga County to the LaFayette Bypass in Walker County. This project will be intersected by the Summerville Bypass; EDS 27(95), at C.R. 325/Mountain View Road; which is the north Trion City limits in Chattooga County. The total length of this project is 18.8 km.

The typical section is proposed to be changed from a rural four lane divided highway with a 4.2 m flushed median to a rural four lane divided highway with 6.0 m raised median from C.R. 331/Center Avenue to C.R. 325/Mountain View Road at the Trion city limits.

It is also recommended that the posted speed limit of 90 km/h, between C.R. 331 and C.R. 325, be lowered to 70 km/h. C.R. 325 is at the north city limits of Trion. The 70 km/h speed limit would meet the speed design for the future tie in to the Summerville Bypass. This would extend the existing 70 km/h approximately 1.4 km.

The proposed typical section would be changed from a four lane divided highway with a 4.2 m flush median to a four lane divided highway with 6.0 m raised median from S.R. 337/James L. Clark Memorial Highway to the LaFayette city limits.

The typical section is proposed to be changed from a rural four lane divided highway with a 4.2 m flushed median to a urban four lane divided highway with 6.0 m raised median from the LaFayette city limits to 0.3 km north of Moore Avenue. The typical section from 0.3 km north of Moore Avenue to the LaFayette Bypass is proposed to be changed from curb and gutters only on the left to curb and gutters on both sides.

The Proposed R/W for the rural four lanes with a 13.6 m median would change from 61.0 m minimum to 76.2 m - 85.3 m minimum.

Several shifts are proposed to better accommodate earthwork. There would be a shift in the alignment from 0.5 km north of S.R. 151 to C.R. 49/East Rogers Road. The proposed center line shifts on the east side from 10.4 m to 3.6 m east of the existing center line. This shift does require constructing four new lanes with a 13.6 m median. Sixty per cent of the existing roadway would have been required to be reconstructed. There are two new bridges proposed at Cane Creek instead of one new parallel bridge because of the shift in the alignment. The sufficiency rating for the existing bridge is 57.7.

The alignment also shifts from being symmetrical about the center line from S.R. 337/James L. Clark Memorial Highway to 0.3 km north of Moore Avenue in LaFayette. It shifts to the west side from S.R. 337 to C.R. 562, to the east side from C.R. 562 to 0.3 km south of the LaFayette city limits, and to the west side from 0.3 km south of the LaFayette city limits to 0.3 km north of Moore Avenue. See attached detailed description.

Estimated Cost:	Proposed	Approved	Program Date
Construction (incl. E&C + infl.)	$29,195,000	$24,104,000	99-02
Right-of-way	$ 5,861,000	$ 2,618,000	
Utilities	(Revised cost requested)		LGPA

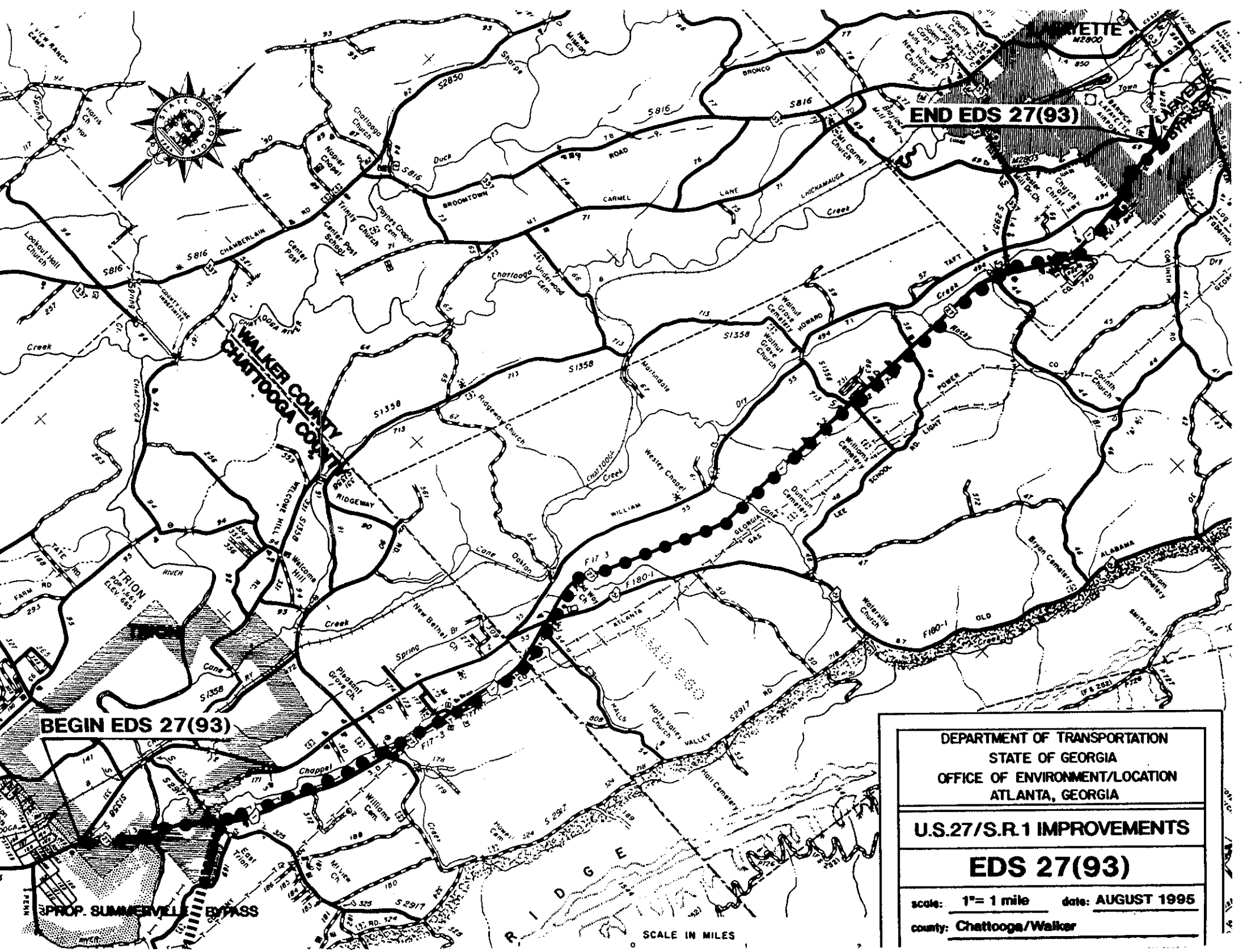
Recommendation: It is recommended that the above changes become a part of the finial concept for this project and be approved for implementation.

DES/FRM

Attachments: Sketch Map
Estimate Summary
Cost Estimates
Project Description
Typical Sections

Concur: _____
Hoyt J. Lively, Jr., P.E.
Director of Pre-Construction

Approve: _____
Frank L. Danchetz, P.E.
Chief Engineer



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF ENVIRONMENT/LOCATION
ATLANTA, GEORGIA

U.S.27/S.R.1 IMPROVEMENTS

EDS 27(93)

scale: 1"= 1 mile date: AUGUST 1995

county: Chattooga/Walker

ESTIMATE SUMMARY

SECTION I TO VI
PROJECT LENGTH 11.7 MILES

EDS 27(93) US 27/SR 1 IMPROVEMENTS CHATTOOGA/WALKER COUNTIES
8-8-95

A.	RIGHT OF WAY	$ 5,861,000
B.	REIMBURSABLE UTILITIES	$ 2,677,000

CONSTRUCTION COST SUMMARY

C.	MAJOR STRUCTURES	$ 2,451,000
D.	GRADING AND DRAINAGE	$ 6,866,000
E.	BASE AND PAVING	$ 8,886,000
F.	LUMP ITEMS	$ 2,587,000
G.	MISCELLANEOUS	$ 1,830,000
H.	SPECIAL FEATURES	$ 1,452,000

SUBTOTAL CONSTRUCTION COST	$ 24,072,000	
E & C (10%)	$ 2,407,000	
INFLATION (5% PER YEAR)	$ 2,716,000	(2 YEARS)
TOTAL CONSTRUCTION COST	$ 29,195,000	$ 2,495,000 per mile

GRAND TOTAL PROJECT COST $ 37,733,000

FRM

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-09-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION I OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 1.500 MILES

TYPICAL SECTION:
RURAL NEW LOCATION-4-LANES WITH 20' RAISED MEDIAN (48' PAV'T)

Minimum R/W = 150 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE FOR THE TOTAL 11.7 MILES

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY		
1. PROPERTY (Land and Easements)		$ 775,000
2. DISPLACEMENTS		$ 2,459,000
3. OTHER COST		$ 2,627,000
	SUBTOTAL	$ 5,861,000
B. REIMBURSABLE UTILITIES		
1. RAILROAD		$ 0
2. TRANSMISSION LINES		$ 1,041,000
3. SERVICES		$ 1,636,000
	SUBTOTAL	$ 2,677,000
C. MAJOR STRUCTURES		
1. WALLS		$ 0
2. BRIDGE STREAM CROSSING		$ 1,267,000
CHATTOOGA RIVER BRIDGE WIDENING		
3. BRIDGE OVER/UNDERPASS		$ 0
4. BOX CULVERTS		$ 198,000
DRY CREEK CULVERT EXTENSION 10X8 DLB.DLB.		
	SUBTOTAL	$ 1,465,000
D. GRADING AND DRAINAGE		
1. EARTHWORK		
a. UNCLASSIFIED EXCAVATION SOIL		$ 581,000
172,000 CY @ $3.38		
b. UNCLASSIFIED EXCAVATION ROCK		$ 106,000
13,000 CY @ $8.16		
c. BORROW EXCAVATION		$ 0
0 CY @ $4.35		
2. DRAINAGE		
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM)		$ 102,000
1.500 MILES @ $68,040		
b. CURB AND GUTTER		$ 135,000
15,840 LF @ $8.51		
	SUBTOTAL	$ 924,000

PROJECT COSTS
con't.

E. BASE AND PAVING		
1. GRADED AGGREGATE BASE		$ 387,000
12.00" -- 32,947 T @ $11.75		
2. ASPHALT PAVING		
a. ASPHALTIC CONCRETE "E"		$ 131,000
1.50" -- 4,250 T @ $30.71		
b. ASPHALTIC CONCRETE "B"		$ 179,000
2.00" -- 5,667 T @ $31.60		
c. ASPHALTIC CONCRETE BASE		$ 460,000
7.00" -- 17,002 T @ $27.06		
d. BITUMINOUS TACK COAT		$ 5,000
6,042 G @ $0.83		
3. CONCRETE PAVING		$ 0
4. OTHER PAVING		$ 116,000
	SUBTOTAL	$ 1,278,000
F. LUMP ITEMS		
1. TRAFFIC CONTROL		$ 30,000
2. CLEARING AND GRUBBING		$ 128,000
27 ACRES @ $4,700		
3. LANDSCAPING		$ 129,000
1.500 MILES @ $86,040		
4. EROSION CONTROL		$ 69,000
1.500 MILES @ $46,050		
5. DETOURS (INCL. TEMP. BRIDGES)		$ 0
	SUBTOTAL	$ 356,000
G. MISCELLANEOUS		
1. SIGNING/STRIPING		$ 56,000
1.500 MILES @ $37,000		
2. GUARDRAIL		$ 41,000
2,580 LF @ $12.09 + 11 Anchors @ $947.37		
3. OTHER		$ 180,000
1.500 MILES @ $120,000		
	SUBTOTAL	$ 277,000
H. SPECIAL FEATURES		$ 152,000
RELOCATION OF CR 331		

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 5,861,000	$ 3,907,000
B. REIMBURSABLE UTILITIES	$ 2,677,000	$ 1,785,000
CONSTRUCTION COST SUMMARY		
C. MAJOR STRUCTURES	$ 1,465,000	
D. GRADING AND DRAINAGE	$ 924,000	
E. BASE AND PAVING	$ 1,278,000	
F. LUMP ITEMS	$ 356,000	
G. MISCELLANEOUS	$ 277,000	
H. SPECIAL FEATURES	$ 152,000	
SUBTOTAL CONSTRUCTION COST	$ 4,452,000	$ 2,968,000
E. & C. (10%)	$ 445,000	
INFLATION...2 yr(s) @ 5% per year	$ 502,000	
TOTAL CONSTRUCTION COST	$ 5,399,000	$ 3,599,000
GRAND TOTAL CONSTRUCTION COST	**$ 13,937,000**	**$ 9,291,000**

RURAL NEW LOCATION-4-LANES WITH 20' RAISED MEDIAN (48' PAV'T)

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-08-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION II OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 0.500 MILES

TYPICAL SECTION:
RURAL WIDENING-2 TO 4 LANES WITH 20' RAISED MEDIAN WIDEN ON ONE SIDE (48' PAV'T

Minimum R/W = 150 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE INCLUDED IN SECTION I

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY	
1. PROPERTY (Land and Easements)	$ 0
2. DISPLACEMENTS	$ 0
3. OTHER COST	$ 0
SUBTOTAL	$ 0
B. REIMBURSABLE UTILITIES	
1. RAILROAD	$ 0
2. TRANSMISSION LINES	$ 0
3. SERVICES	$ 0
SUBTOTAL	$ 0
C. MAJOR STRUCTURES	
1. WALLS	$ 0
2. BRIDGE STREAM CROSSING	$ 0
3. BRIDGE OVER/UNDERPASS	$ 0
4. BOX CULVERTS	$ 0
SUBTOTAL	$ 0
D. GRADING AND DRAINAGE	
1. EARTHWORK	
a. UNCLASSIFIED EXCAVATION SOIL 25,000 CY @ $3.38	$ 85,000
b. UNCLASSIFIED EXCAVATION ROCK 3,000 CY @ $8.16	$ 24,000
c. BORROW EXCAVATION 0 CY @ $4.35	$ 0
2. DRAINAGE	
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM) 0.500 MILES @ $29,970	$ 15,000
b. CURB AND GUTTER 5,280 LF @ $8.51	$ 45,000
SUBTOTAL	$ 169,000

PROJECT COSTS
con't.

E. BASE AND PAVING

1. GRADED AGGREGATE BASE — $ 69,000
   12.00" -- 5,914 T @ $11.75

2. ASPHALT PAVING
   a. ASPHALTIC CONCRETE "E" — $ 50,000
      1.50" -- 1,619 T @ $30.71
   b. ASPHALTIC CONCRETE "B" — $ 68,000
      2.00" -- 2,159 T @ $31.60
   c. ASPHALTIC CONCRETE BASE — $ 77,000
      7.00" -- 2,834 T @ $27.06
   d. BITUMINOUS TACK COAT — $ 1,000
      1,484 G @ $0.83

3. CONCRETE PAVING — $ 0

4. OTHER PAVING — $ 27,000

SUBTOTAL $ 292,000

F. LUMP ITEMS

1. TRAFFIC CONTROL — $ 22,000

2. CLEARING AND GRUBBING — $ 43,000
   9 ACRES @ $4,700

3. LANDSCAPING — $ 12,000
   0.500 MILES @ $24,960

4. EROSION CONTROL — $ 15,000
   0.500 MILES @ $30,000

5. DETOURS (INCL. TEMP. BRIDGES) — $ 0

SUBTOTAL $ 92,000

G. MISCELLANEOUS

1. SIGNING/STRIPING — $ 19,000
   0.500 MILES @ $37,000

2. GUARDRAIL — $ 12,000
   900 LF @ $12.09 + 1 Anchors @ $947.37

3. OTHER — $ 25,000
   0.500 MILES @ $50,100

SUBTOTAL $ 56,000

H. SPECIAL FEATURES — $ 182,000
RELOCATED CR 494/WILLIAM HOWARD TAFT HIGHWAY

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 0	$ 0
B. REIMBURSABLE UTILITIES	$ 0	$ 0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$ 0	
D. GRADING AND DRAINAGE	$ 169,000	
E. BASE AND PAVING	$ 292,000	
F. LUMP ITEMS	$ 92,000	
G. MISCELLANEOUS	$ 56,000	
H. SPECIAL FEATURES	$ 182,000	
SUBTOTAL CONSTRUCTION COST	$ 791,000	$ 1,582,000
E. & C. (10%)	$ 79,000	
INFLATION...2 yr(s) @ 5% per year	$ 90,000	
TOTAL CONSTRUCTION COST	$ 960,000	$ 1,920,000
GRAND TOTAL CONSTRUCTION COST	**$ 960,000**	**$ 1,920,000**

RURAL WIDENING-2 TO 4 LANES WITH 20' RAISED MEDIAN WIDEN ON ONE SIDE (48' PAV'T)

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-08-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION III OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 0.200 MILES

TYPICAL SECTION:
URBAN NEW LOCATION-4-LANES WITH 20' RAISED MEDIAN (48' PAV'T)

Minimum R/W = 100 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE INCLUDED IN SECTION I

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY		
1. PROPERTY (Land and Easements)		$ 0
2. DISPLACEMENTS		$ 0
3. OTHER COST		$ 0
	SUBTOTAL	$ 0
B. REIMBURSABLE UTILITIES		
1. RAILROAD		$ 0
2. TRANSMISSION LINES		$ 0
3. SERVICES		$ 0
	SUBTOTAL	$ 0
C. MAJOR STRUCTURES		
1. WALLS		$ 0
2. BRIDGE STREAM CROSSING		$ 0
3. BRIDGE OVER/UNDERPASS		$ 0
4. BOX CULVERTS		$ 0
	SUBTOTAL	$ 0
D. GRADING AND DRAINAGE		
1. EARTHWORK		
a. UNCLASSIFIED EXCAVATION SOIL		$ 37,000
11,000 CY @ $3.38		
b. UNCLASSIFIED EXCAVATION ROCK		$ 0
0 CY @ $8.16		
c. BORROW EXCAVATION		$ 0
0 CY @ $4.35		
2. DRAINAGE		
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM)		$ 38,000
0.200 MILES @ $190,080		
b. CURB AND GUTTER		$ 36,000
4,224 LF @ $8.51		
	SUBTOTAL	$ 111,000

PROJECT COSTS
con't.

E. BASE AND PAVING

1. GRADED AGGREGATE BASE — $ 48,000
   12.00" -- 4,055 T @ $11.75

2. ASPHALT PAVING
   a. ASPHALTIC CONCRETE "E" — $ 15,000
      1.50" -- 486 T @ $30.71
   b. ASPHALTIC CONCRETE "B" — $ 20,000
      2.00" -- 648 T @ $31.60
   c. ASPHALTIC CONCRETE BASE — $ 61,000
      7.00" -- 2,267 T @ $27.06
   d. BITUMINOUS TACK COAT — $ 1,000
      763 G @ $0.83

3. CONCRETE PAVING — $ 0

4. OTHER PAVING — $ 15,000

SUBTOTAL $ 160,000

F. LUMP ITEMS

1. TRAFFIC CONTROL — $ 10,000

2. CLEARING AND GRUBBING — $ 11,000
   2 ACRES @ $4,700

3. LANDSCAPING — $ 17,000
   0.200 MILES @ $86,040

4. EROSION CONTROL — $ 9,000
   0.200 MILES @ $46,050

5. DETOURS (INCL. TEMP. BRIDGES) — $ 0

SUBTOTAL $ 47,000

G. MISCELLANEOUS

1. SIGNING/STRIPING — $ 7,000
   0.200 MILES @ $37,000

2. GUARDRAIL — $ 0
   0 LF @ $12.09 + 0 Anchors @ $947.37

3. OTHER — $ 24,000
   0.200 MILES @ $120,000

SUBTOTAL $ 31,000

H. SPECIAL FEATURES — $ 0

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 0	$ 0
B. REIMBURSABLE UTILITIES	$ 0	$ 0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$ 0	
D. GRADING AND DRAINAGE	$ 111,000	
E. BASE AND PAVING	$ 160,000	
F. LUMP ITEMS	$ 47,000	
G. MISCELLANEOUS	$ 31,000	
H. SPECIAL FEATURES	$ 0	
SUBTOTAL CONSTRUCTION COST	$ 349,000	$ 1,745,000
E. & C. (10%)	$ 35,000	
INFLATION...2 yr(s) @ 5% per year	$ 39,000	
TOTAL CONSTRUCTION COST	$ 423,000	$ 2,115,000
GRAND TOTAL CONSTRUCTION COST	**$ 423,000**	**$ 2,115,000**

URBAN NEW LOCATION-4-LANES WITH 20' RAISED MEDIAN (48' PAV'T)

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-08-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION IV OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 0.500 MILES

TYPICAL SECTION:
URBAN WIDENING-2 TO 4 LANES WITH 20' RAISED MEDIAN WIDEN ON ONE SIDE (48' PAV'T

Minimum R/W = 100 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE INCLUDED IN SECTION I

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY		
1. PROPERTY (Land and Easements)		$ 0
2. DISPLACEMENTS		$ 0
3. OTHER COST		$ 0
	SUBTOTAL	$ 0
B. REIMBURSABLE UTILITIES		
1. RAILROAD		$ 0
2. TRANSMISSION LINES		$ 0
3. SERVICES		$ 0
	SUBTOTAL	$ 0
C. MAJOR STRUCTURES		
1. WALLS		$ 0
2. BRIDGE STREAM CROSSING		$ 0
3. BRIDGE OVER/UNDERPASS		$ 0
4. BOX CULVERTS		$ 0
	SUBTOTAL	$ 0
D. GRADING AND DRAINAGE		
1. EARTHWORK		
a. UNCLASSIFIED EXCAVATION SOIL 56,000 CY @ $3.38		$ 189,000
b. UNCLASSIFIED EXCAVATION ROCK 3,000 CY @ $8.16		$ 24,000
c. BORROW EXCAVATION 0 CY @ $4.35		$ 0
2. DRAINAGE		
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM) 0.500 MILES @ $157,950		$ 79,000
b. CURB AND GUTTER 7,920 LF @ $8.51		$ 67,000
	SUBTOTAL	$ 359,000

PROJECT COSTS
con't.

E. BASE AND PAVING

1. GRADED AGGREGATE BASE — $ 60,000
   12.00" -- 5,069 T @ $11.75

2. ASPHALT PAVING
   a. ASPHALTIC CONCRETE "E" — $ 37,000
      1.50" -- 1,214 T @ $30.71
   b. ASPHALTIC CONCRETE "B" — $ 51,000
      2.00" -- 1,619 T @ $31.60
   c. ASPHALTIC CONCRETE BASE — $ 77,000
      7.00" -- 2,834 T @ $27.06
   d. BITUMINOUS TACK COAT — $ 1,000
      1,272 G @ $0.83

3. CONCRETE PAVING — $ 0

4. OTHER PAVING — $ 23,000

SUBTOTAL $ 249,000

F. LUMP ITEMS

1. TRAFFIC CONTROL — $ 17,000

2. CLEARING AND GRUBBING — $ 28,000
   6 ACRES @ $4,700

3. LANDSCAPING — $ 8,000
   0.500 MILES @ $15,960

4. EROSION CONTROL — $ 10,000
   0.500 MILES @ $19,050

5. DETOURS (INCL. TEMP. BRIDGES) — $ 0

SUBTOTAL $ 63,000

G. MISCELLANEOUS

1. SIGNING/STRIPING — $ 19,000
   0.500 MILES @ $37,000

2. GUARDRAIL — $ 0
   0 LF @ $12.09 + 0 Anchors @ $947.37

3. OTHER — $ 40,000
   0.500 MILES @ $80,100

SUBTOTAL $ 59,000

H. SPECIAL FEATURES — $ 46,000
RELOCATION OF US 27 BUSINESS

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 0	$ 0
B. REIMBURSABLE UTILITIES	$ 0	$ 0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$ 0	
D. GRADING AND DRAINAGE	$ 359,000	
E. BASE AND PAVING	$ 249,000	
F. LUMP ITEMS	$ 63,000	
G. MISCELLANEOUS	$ 59,000	
H. SPECIAL FEATURES	$ 46,000	
SUBTOTAL CONSTRUCTION COST	$ 776,000	$ 1,552,000
E. & C. (10%)	$ 78,000	
INFLATION...2 yr(s) @ 5% per year	$ 88,000	
TOTAL CONSTRUCTION COST	$ 942,000	$ 1,884,000
GRAND TOTAL CONSTRUCTION COST	**$ 942,000**	**$ 1,884,000**

URBAN WIDENING-2 TO 4 LANES WITH 20' RAISED MEDIAN WIDEN ON ONE SIDE (48' PAV'T)

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-08-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION V OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 5.000 MILES

TYPICAL SECTION:
RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)

Minimum R/W = 250 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE INCLUDED IN SECTION I

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY	
1. PROPERTY (Land and Easements)	$ 0
2. DISPLACEMENTS	$ 0
3. OTHER COST	$ 0
SUBTOTAL	$ 0
B. REIMBURSABLE UTILITIES	
1. RAILROAD	$ 0
2. TRANSMISSION LINES	$ 0
3. SERVICES	$ 0
SUBTOTAL	$ 0
C. MAJOR STRUCTURES	
1. WALLS	$ 0
2. BRIDGE STREAM CROSSING	$ 555,000
TWO NEW BRIDGES AT CANE CREEK	
3. BRIDGE OVER/UNDERPASS	$ 0
4. BOX CULVERTS	$ 302,000
CULVERT EXTENSIONS OF TRIBUTARIES TO CANE CREEK	
SUBTOTAL	$ 857,000
D. GRADING AND DRAINAGE	
1. EARTHWORK	
a. UNCLASSIFIED EXCAVATION SOIL	$ 2,657,000
786,000 CY @ $3.38	
b. UNCLASSIFIED EXCAVATION ROCK	$ 1,200,000
147,000 CY @ $8.16	
c. BORROW EXCAVATION	$ 0
0 CY @ $4.35	
2. DRAINAGE	
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM)	$ 410,000
5.000 MILES @ $82,080	
b. CURB AND GUTTER	$ 0
0 LF @ $8.51	
SUBTOTAL	$ 4,267,000

PROJECT COSTS
con't.

E. BASE AND PAVING

1. **GRADED AGGREGATE BASE** — $ 1,340,000
   12.00" -- 114,048 T @ $11.75

2. **ASPHALT PAVING**
   a. **ASPHALTIC CONCRETE "E"** — $ 466,000
      1.50" -- 15,180 T @ $30.71
   b. **ASPHALTIC CONCRETE "B"** — $ 640,000
      2.00" -- 20,240 T @ $31.60
   c. **ASPHALTIC CONCRETE BASE** — $ 1,534,000
      7.00" -- 56,672 T @ $27.06
   d. **BITUMINOUS TACK COAT** — $ 17,000
      20,669 G @ $0.83

3. **CONCRETE PAVING** — $ 0

4. **OTHER PAVING** — $ 400,000

SUBTOTAL $ 4,397,000

F. LUMP ITEMS

1. **TRAFFIC CONTROL** — $ 35,000

2. **CLEARING AND GRUBBING** — $ 712,000
   152 ACRES @ $4,700

3. **LANDSCAPING** — $ 255,000
   5.000 MILES @ $51,000

4. **EROSION CONTROL** — $ 240,000
   5.000 MILES @ $48,000

5. **DETOURS** (INCL. TEMP. BRIDGES) — $ 0

SUBTOTAL $ 1,242,000

G. MISCELLANEOUS

1. **SIGNING/STRIPING** — $ 185,000
   5.000 MILES @ $37,000

2. **GUARDRAIL** — $ 58,000
   3,520 LF @ $12.09 + 16 Anchors @ $947.37

3. **OTHER** — $ 806,000
   5.000 MILES @ $161,100

SUBTOTAL $ 1,049,000

H. SPECIAL FEATURES — $ 168,000
RELOCATION OF CROSS ROADS

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 0	$ 0
B. REIMBURSABLE UTILITIES	$ 0	$ 0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$ 857,000	
D. GRADING AND DRAINAGE	$ 4,267,000	
E. BASE AND PAVING	$ 4,397,000	
F. LUMP ITEMS	$ 1,242,000	
G. MISCELLANEOUS	$ 1,049,000	
H. SPECIAL FEATURES	$ 168,000	
SUBTOTAL CONSTRUCTION COST	$ 11,980,000	$ 2,396,000
E. & C. (10%)	$ 1,198,000	
INFLATION...2 yr(s) @ 5% per year	$ 1,351,000	
TOTAL CONSTRUCTION COST	$ 14,529,000	$ 2,906,000

GRAND TOTAL CONSTRUCTION COST $ 14,529,000 $ 2,906,000

RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)

PRELIMINARY COST ESTIMATE

OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 621610 **DATE:** 08-08-1995

PROJECT NO: EDS 27(93)

PROJECT NAME: US 27/SR 1 IMPROVEMENTS

COUNTY: CHATTOOGA/WALKER

PROJECT DESCRIPTION: FROM CR 331/CENTER AVENUE IN TRION IN CHATTOOGA COUNTY TO THE LAFAYETTE BYPASS IN WALKER COUNTY. SECTION VI OF VI

PROJECT LENGTH: 11.700 MILES **SECTION LENGTH:** 4.000 MILES

TYPICAL SECTION:
RURAL WIDENING-2 TO 4 LANES WITH 44' DIV MEDIAN (48' PAV'T)

Minimum R/W = 250 ft

EXISTING ROADWAY (If Applicable): SR 1

TRAFFIC:

INITIAL DESIGN YEAR: 1997 **DAILY VOLUME (AADT):** 10,600

FINAL DESIGN YEAR: 2017 **DAILY VOLUME (AADT):** 18,000

( )FEASIBILITY STUDY ( )PRE-PROGRAMMING PROCESS (X)PROGRAMMING PROCESS

COMMENTS: UTILITY COST AND R/W COST ARE INCLUDED IN SECTION I

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT-OF-WAY

1. PROPERTY (Land and Easements)	$ 0
2. DISPLACEMENTS	$ 0
3. OTHER COST	$ 0
SUBTOTAL	$ 0

B. REIMBURSABLE UTILITIES

1. RAILROAD	$ 0
2. TRANSMISSION LINES	$ 0
3. SERVICES	$ 0
SUBTOTAL	$ 0

C. MAJOR STRUCTURES

1. WALLS	$ 0
2. BRIDGE STREAM CROSSING	$ 0
3. BRIDGE OVER/UNDERPASS	$ 0
4. BOX CULVERTS ROCKY BRANCH 8X8 DLB. AND SPRING BRANCH 8X6 DLB.	$ 129,000
SUBTOTAL	$ 129,000

D. GRADING AND DRAINAGE

1. EARTHWORK	
a. UNCLASSIFIED EXCAVATION SOIL 153,000 CY @ $3.38	$ 517,000
b. UNCLASSIFIED EXCAVATION ROCK 44,000 CY @ $8.16	$ 359,000
c. BORROW EXCAVATION 0 CY @ $4.35	$ 0
2. DRAINAGE	
a. MINOR DRAINAGE (INCLUDING CROSS DRAIN PIPES & LONGITUDINAL SYSTEM) 4.000 MILES @ $39,960	$ 160,000
b. CURB AND GUTTER 0 LF @ $8.51	$ 0
SUBTOTAL	$ 1,036,000

PROJECT COSTS
con't.

E. BASE AND PAVING		
1. GRADED AGGREGATE BASE		$ 596,000
12.00" -- 50,688 T @ $11.75		
2. ASPHALT PAVING		
a. ASPHALTIC CONCRETE "E"		$ 448,000
1.50" -- 14,573 T @ $30.71		
b. ASPHALTIC CONCRETE "B"		$ 614,000
2.00" -- 19,430 T @ $31.60		
c. ASPHALTIC CONCRETE BASE		$ 613,000
7.00" -- 22,669 T @ $27.06		
d. BITUMINOUS TACK COAT		$ 11,000
12,719 G @ $0.83		
3. CONCRETE PAVING		$ 0
4. OTHER PAVING		$ 228,000
	SUBTOTAL	$ 2,510,000
F. LUMP ITEMS		
1. TRAFFIC CONTROL		$ 49,000
2. CLEARING AND GRUBBING		$ 570,000
121 ACRES @ $4,700		
3. LANDSCAPING		$ 72,000
4.000 MILES @ $18,000		
4. EROSION CONTROL		$ 96,000
4.000 MILES @ $24,000		
5. DETOURS (INCL. TEMP. BRIDGES)		$ 0
	SUBTOTAL	$ 787,000
G. MISCELLANEOUS		
1. SIGNING/STRIPING		$ 120,000
4.000 MILES @ $30,000		
2. GUARDRAIL		$ 98,000
6,720 LF @ $12.09 + 18 Anchors @ $947.37		
3. OTHER		$ 140,000
4.000 MILES @ $35,100		
	SUBTOTAL	$ 358,000
H. SPECIAL FEATURES		$ 904,000
RELOCATION OF CROSS ROADS WITH A SINGLE 10X10 CULVERT		

ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	$ 0	$ 0
B. REIMBURSABLE UTILITIES	$ 0	$ 0

CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	$ 129,000	
D. GRADING AND DRAINAGE	$ 1,036,000	
E. BASE AND PAVING	$ 2,510,000	
F. LUMP ITEMS	$ 787,000	
G. MISCELLANEOUS	$ 358,000	
H. SPECIAL FEATURES	$ 904,000	
SUBTOTAL CONSTRUCTION COST	$ 5,724,000	$ 1,431,000
E. & C. (10%)	$ 572,000	
INFLATION...2 yr(s) @ 5% per year	$ 646,000	
TOTAL CONSTRUCTION COST	$ 6,942,000	$ 1,736,000

GRAND TOTAL CONSTRUCTION COST $ 6,942,000 $ 1,736,000

RURAL WIDENING-2 TO 4 LANES WITH 44' DIV MEDIAN (48' PAV'T)

PROJECT DESCRIPTION
REVISION

EDS-27(93)
Chattooga/Walker Counties
U.S. 27/S.R. 1 Improvements
P.I. No. 621610
August 7, 1995

Project EDS-27(93), Chattooga/Walker Counties would consist of the widening and reconstruction of U.S. 27/S.R. 1 from C.R. 331/Center Avenue in Trion, in Chattooga County to the LaFayette Bypass in Walker County for a distance of 18.8 km.

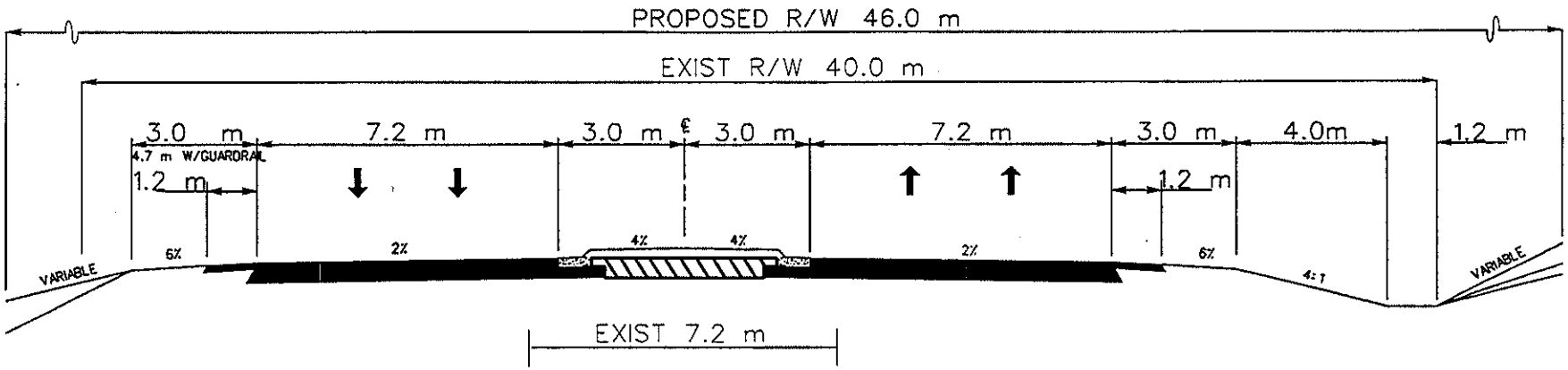
The existing two and three lane roadway; with R/W varying from 30.5 m to 39.6 m; would be widened to a rural and urban four lane divided highway; with R/W varying from 45.7 m to 85.3 m minimum; two 3.6 m lanes in each direction with either a 6.0 m raised median or a 13.6 m grassed median.

A rural four lane divided highway, two 3.6 m lanes in each direction with a 6.0 m raised median is proposed form C.R. 331/Center Avenue to C.R.325/ Mountain View Road. The typical section then changes to a rural four lane divided highway, two 3.6 m lanes in each direction with a 13.6 m wide grassed median from C.R. 325/Mountain View Road to S.R. 0.3 km south of S.R. 337/James L. Clark Memorial Highway. A rural four lane divided highway with a 6.0 m raised median is proposed from S.R. 337 to the LaFayette city limits. An urban four lane divided highway with a 6.0 m raised median is proposed from the LaFayette city limits to the LaFayette Bypass, which is an existing four lane roadway with a 4.2 m flush median.

Widening would begin with a four lane 6.0 m raised median at C.R. 331/ Center Avenue in Trion, symmetric about the existing center line and continue to 0.6 km south of C.R. 325/Mountain View Road. The widening would then transition to the east side and continue to 0.2 km south of C.R. 325. It would then transition to the west side to a 13.6 m median through the intersection of C.R. 325 continuing to C.R. 1/Halls Valley Road where it would transition back to the east side. It would continue on the east side to 0.5 km north of S.R. 151/Alabama Road. It would then shift to locate the proposed center line to the east edge of pavement of the existing road. This would require building two new lanes in each direction. This alignment would continue to C.R. 49/East Rogers Road where it would shift to the east side adding two lanes with a 13.6 m median to the existing two lanes. It then would continue on the east side to C.R. 44/Coffman Springs Road where it would shift to the west side to a 6.0 m raised median. It would continue on the west side from S.R. 337 to C.R. 562/Derby Drive. At C.R. 562 it would shift to the east side and continue to 0.3 km south of C.R. 494/William Howard Taft Highway, the LaFayette city limits. The alignment would then shift to the west side to a urban curb and gutter section and continue to 0.3 km north of Moore Avenue in LaFayette. The widening would then shift to the east side and continue to the LaFayette Bypass.

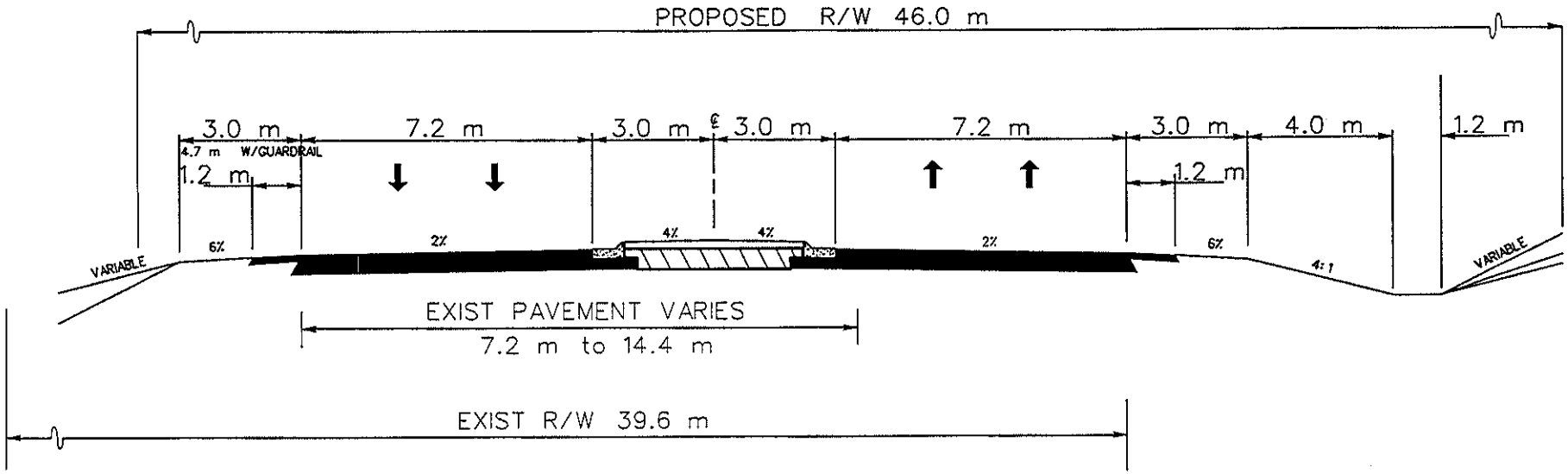
The intersections of C.R. 331/Center Avenue, C.R. 177/Gaytown Road, S.R. 151/Alabama Road, C.R. 48/Lee School Road, and C.R. 494/William Howard Taft Highway would be relocated to improve their intersections. The existing bridge over the Chattooga River would be widened from 8.5 m to 26.8 m. Two new bridges are proposed to be constructed over Cane Creek. The sufficiency rating of the existing bridge is 57.7. The existing culverts along U.S. 27/S.R. 1 would be lengthened to accommodate the widened section.

FRM



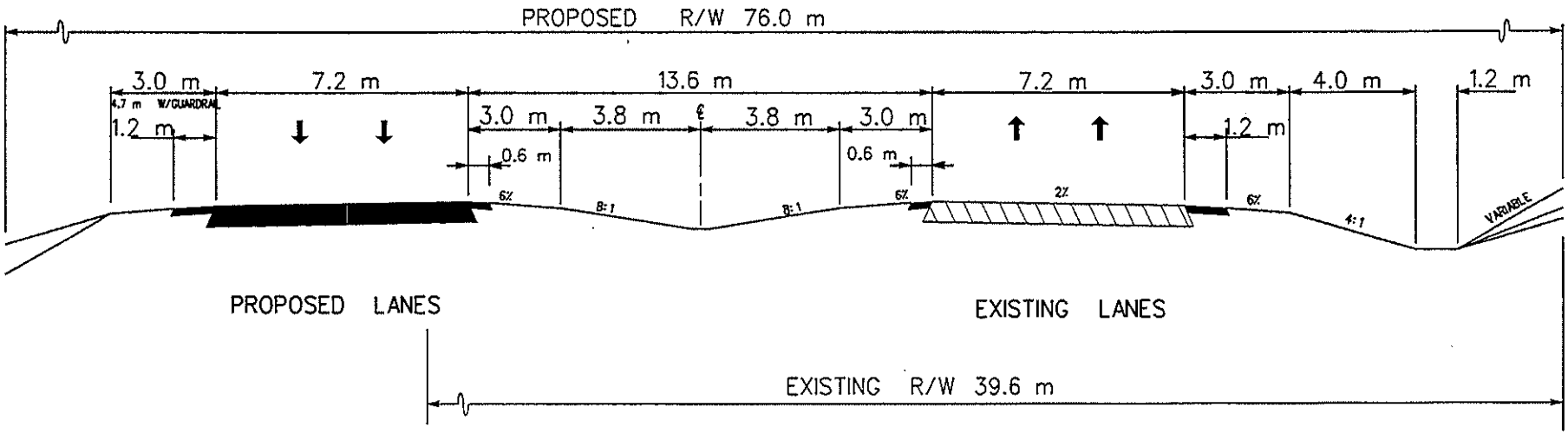
TYPICAL CROSS SECTION
EDS 27(93) CHATTOOGA / WALKER COUNTIES
FROM C.R. 331 / CENTER AVE. IN TRION
TO 0.6 km SOUTH OF C.R. 325

NOT TO SCALE



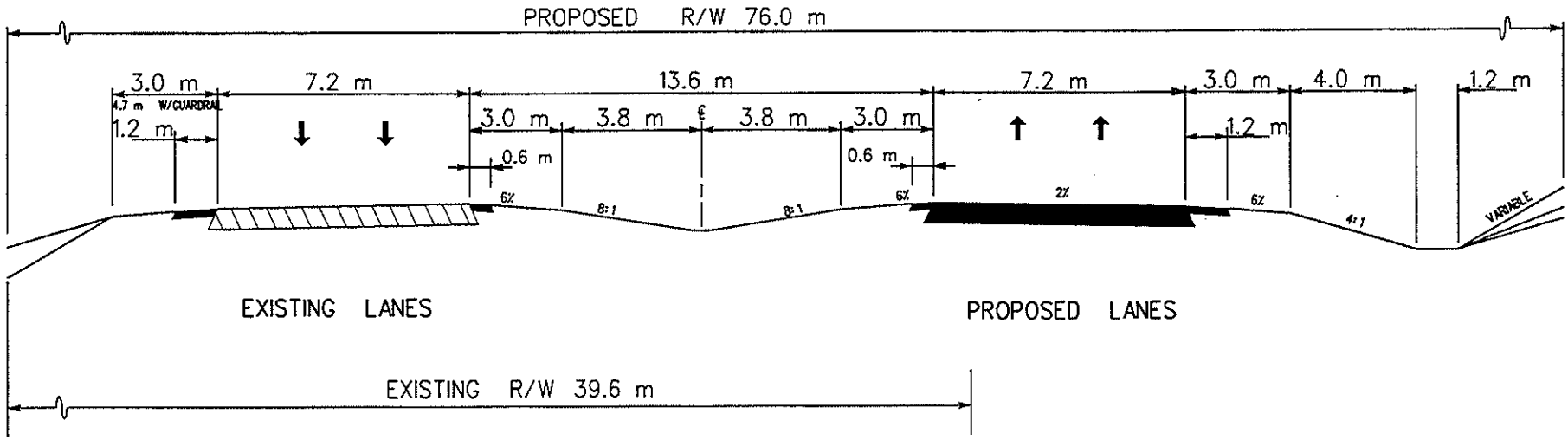
TYPICAL CROSS SECTION
EDS 27(93) CHATTOOGA / WALKER COUNTIES
FROM 0.6 km SOUTH C.R. 325
TO C.R. 325/MOUNTAIN VIEW ROAD

NOT TO SCALE



TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM C.R. 325 / MOUNTAIN VIEW ROAD
TO 0.2 km NORTH OF C.R. 1 / HALLS VALLEY ROAD

NOT TO SCALE

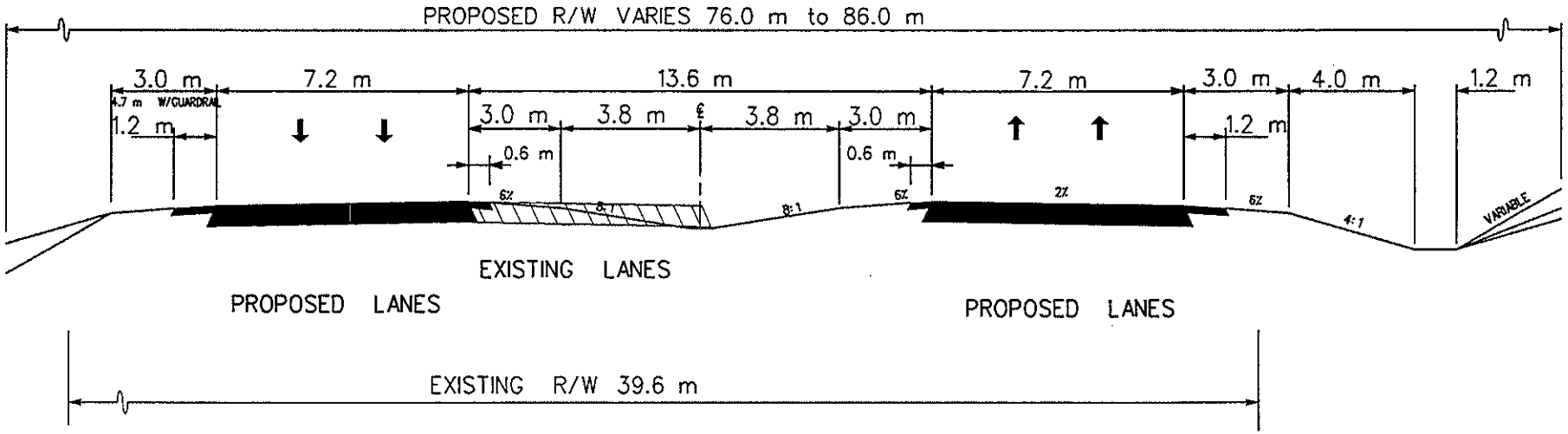


TYPICAL CROSS SECTION

EDS 27(93), CHATTOOGA / WALKER COUNTIES

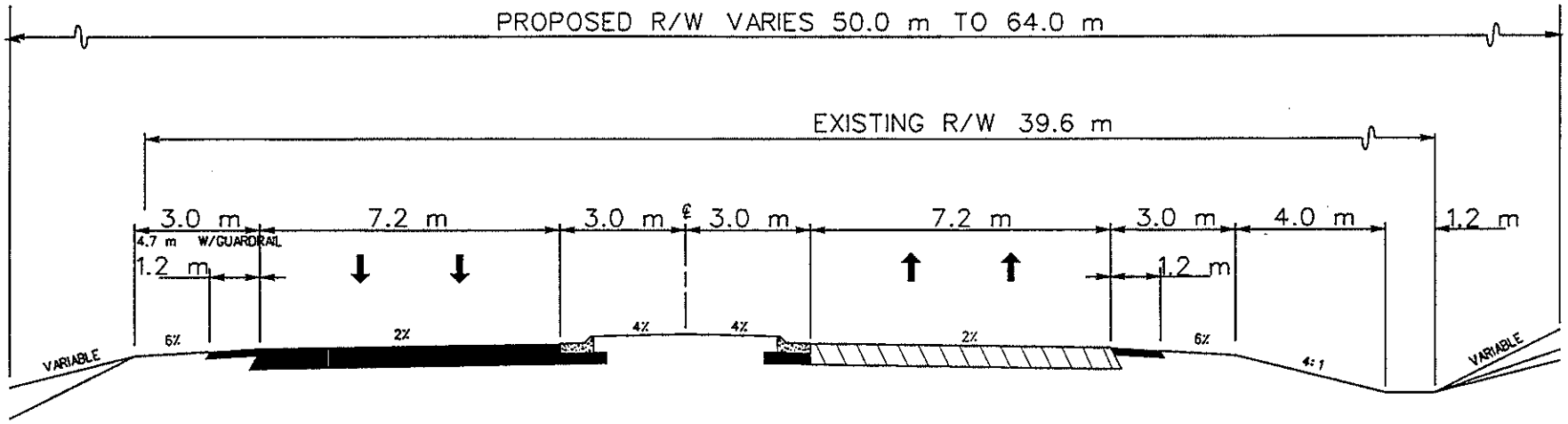
FROM 0.2 km NORTH OF C.R. 1 / HALLS VALLEY ROAD
TO 0.5 km NORTH OF S.R. 151 / ALABAMA ROAD
AND
FROM C.R. 49 / ROGERS ROAD
TO S.R. 337 / JAMES L. CLARK MEMORIAL HWY.

NOT TO SCALE



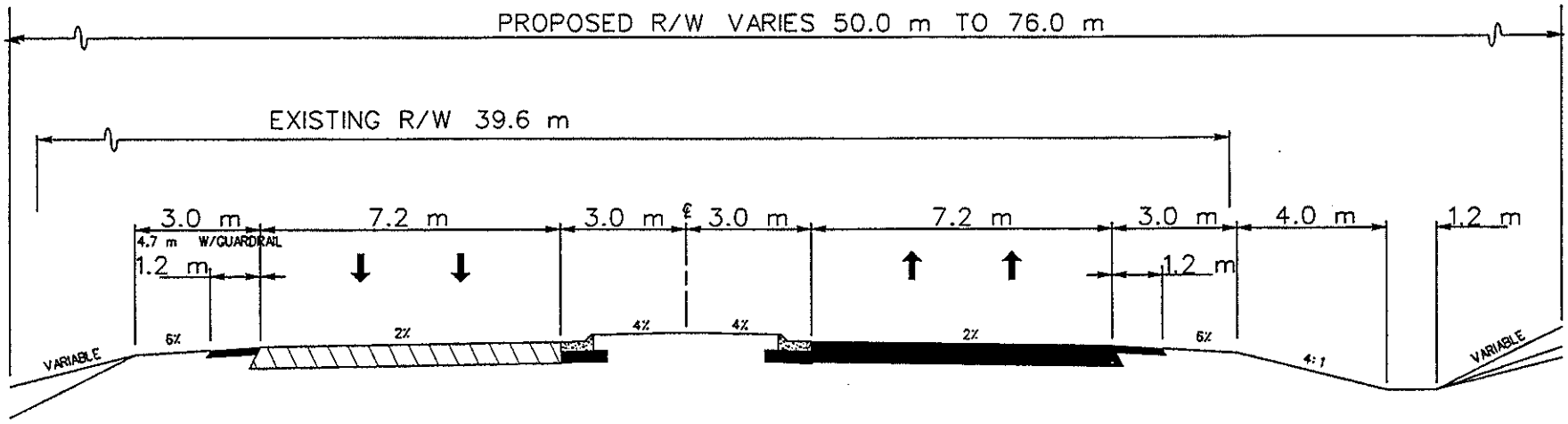
TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM 0.5 km NORTH OF S.R. 151 / ALABAMA ROAD
TO C.R. 49 / ROGERS ROAD

NOT TO SCALE



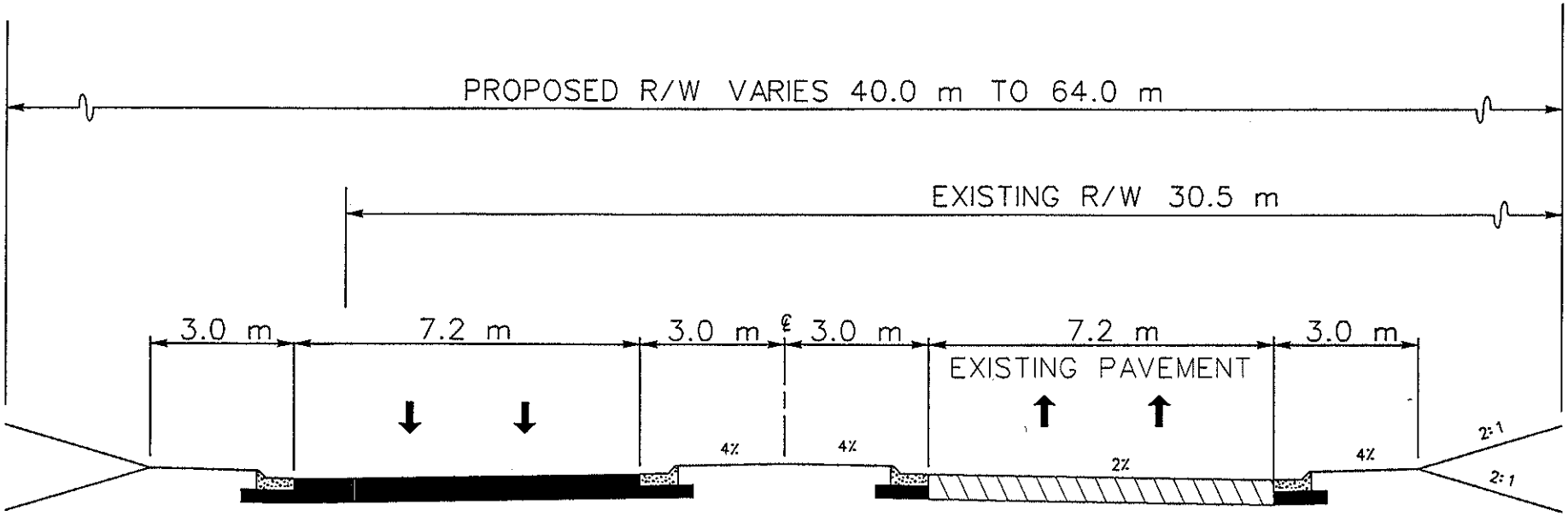
TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM S.R. 337 / JAMES L. CLARK MEMORIAL HWY. TO C.R. 562 / DERBY DRIVE

NOT TO SCALE



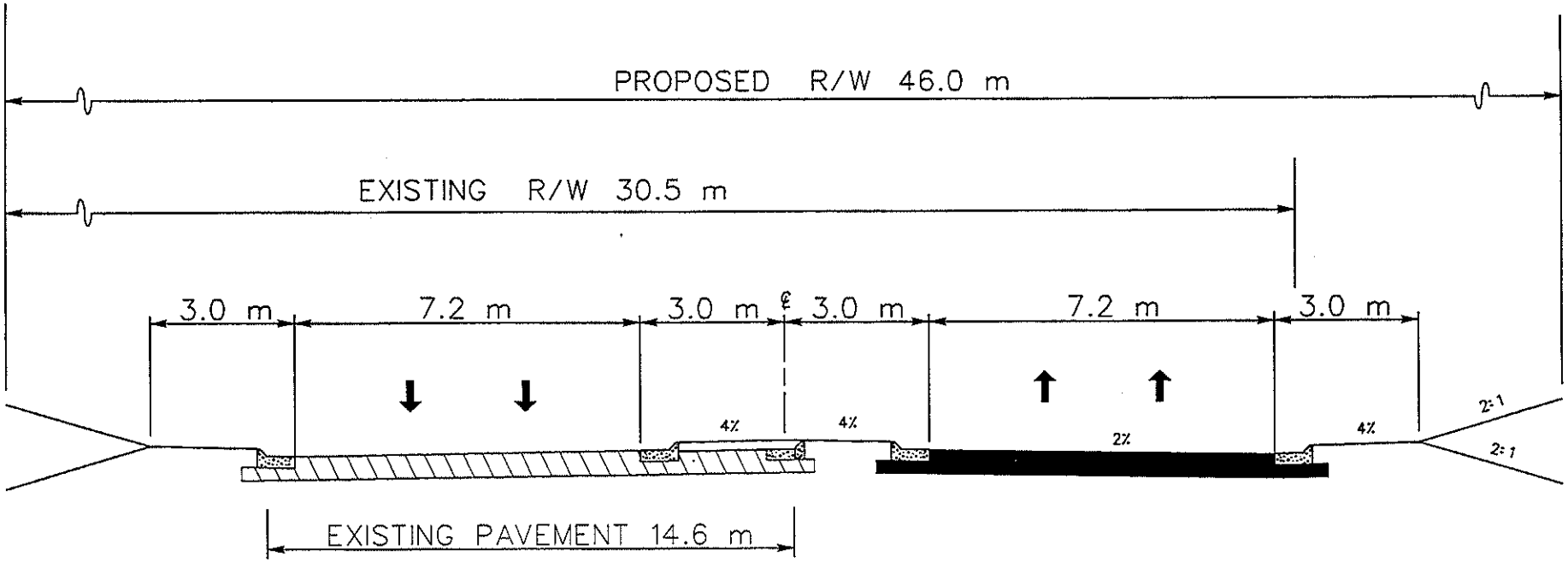
TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM C.R. 562 /DERBY DRIVE
TO C.R. 494 / WILLIAM HOWARD TAFT HWY.

NOT TO SCALE



TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM C.R. 494 / WILLIAM HOWARD TAFT HWY.
TO 0.3 km NORTH OF MOORE AVENUE IN LAFAYETTE

NOT TO SCALE



TYPICAL CROSS SECTION
EDS 27(93), CHATTOOGA / WALKER COUNTIES
FROM 0.3 km NORTH OF MOORE AVE.
TO THE LAFAYETTE BYPASS

NOT TO SCALE