

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-72(28) Madison County **OFFICE** Preconstruction
P. I. No. 122100
CWH/H **DATE** January 21, 1998
FROM C. Wayne Hutto, Assistant Director of Preconstruction
TO SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

- Walker Scott
- Bobby Mustin
- David Studstill (ATTN: Harvey Keeper)
- Jerry Hobbs
- Herman Griffin
- Marta Rosen (ATTN: Michael Henry)
- Marion Waters
- Toni Dunagan
- Paul Liles
- Jim Hitt (Traffic Ops)
- Hugh Tyner

RECEIVED

JAN 23 1998

OFFICE OF PROGRAMMING

| | |
|-------|-----------------------|
| ADMIN | <i>[Signature]</i> |
| DEV | <i>PBM</i> |
| MGT | |
| SCHED | <i>✓ R</i> |
| | <i>Ruba 1/21/98 @</i> |
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1/26/98
Note
2/10/98
Limit 10/1/98
change

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS 72(28) OFFICE Environment/Location
P.I. No.: 122100 DATE December 12, 1997
Madison County

FROM *David E. Studstill* ^{3AM}
David E. Studstill, P.E., State Environment/Location Engineer

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

SUBJECT Revised Project Concept Report - S.R. 72 Improvements

Approved Concept

EDS 72(28) in Madison County is proposed to improve SR 72 from a two and three lane rural roadway to a rural four lane roadway with a 6.00 m raised median. It begins at SR 172 and continues along SR 72 through the city of Comer to CR 277/Hill Street. A one way pair is proposed through the city of Comer. The proposed design speed is 90 km/h west of Comer and 70 km/h through Comer. The length of the project is 7.72 km.

The project begins at SR 172 and widens existing SR 72 by adding two lanes with a 6.00 m raised median to the north side of the existing roadway. It continues on the north side to 183.00 m west of Ivy Street in Comer where it changes to a one way pair through Comer. It ties back into a four lanes 6.00 m raised median at CR 277/Hill Street, at the east city limits of Comer.

Revised Concept

It is recommended that the eastern termini be revised from CR 277 ~~back to the west city limits of Comer, 1100.00 m east of South Fork Broad River.~~ This project will then tie to the next project that will be on new location bypassing Comer and Carlton to the north. This will eliminate the one way pair through Comer and change the length of the project from 7.72 km to 4.51 km, which is from milepost 6.8 to milepost 9.6. The typical section will remain the same; which consist of improving the two and three lane rural roadway to a rural four-lane roadway with a 6.00 m raised median. The existing R/W varies from 24.38 m to 30.50 m.

The revision is recommended because of an overwhelming support from the local officials and citizens to bypass Comer and Carlton to the north.

Revised Concept Report
EDS 72(28), Madison County
P.I. No. 122100
December 12, 1997
Page 2 of 2

| Estimated Cost: | <u>Proposed</u> | <u>Approved (1994)</u> | Prog. Date |
|------------------------------------|-----------------|------------------------|---------------|
| | 2.8 miles | 4.7miles | |
| Construction (incl.E&C + infl.) | \$ 6,378,000 | \$8,623,000 | LR |
| Right-of-way | \$ 2,378,000 | \$2,692,000 | LR |
| Utilities | LGPA | LGPA | |

*Describe
Begin
End
Mileage
DE
est
RW*

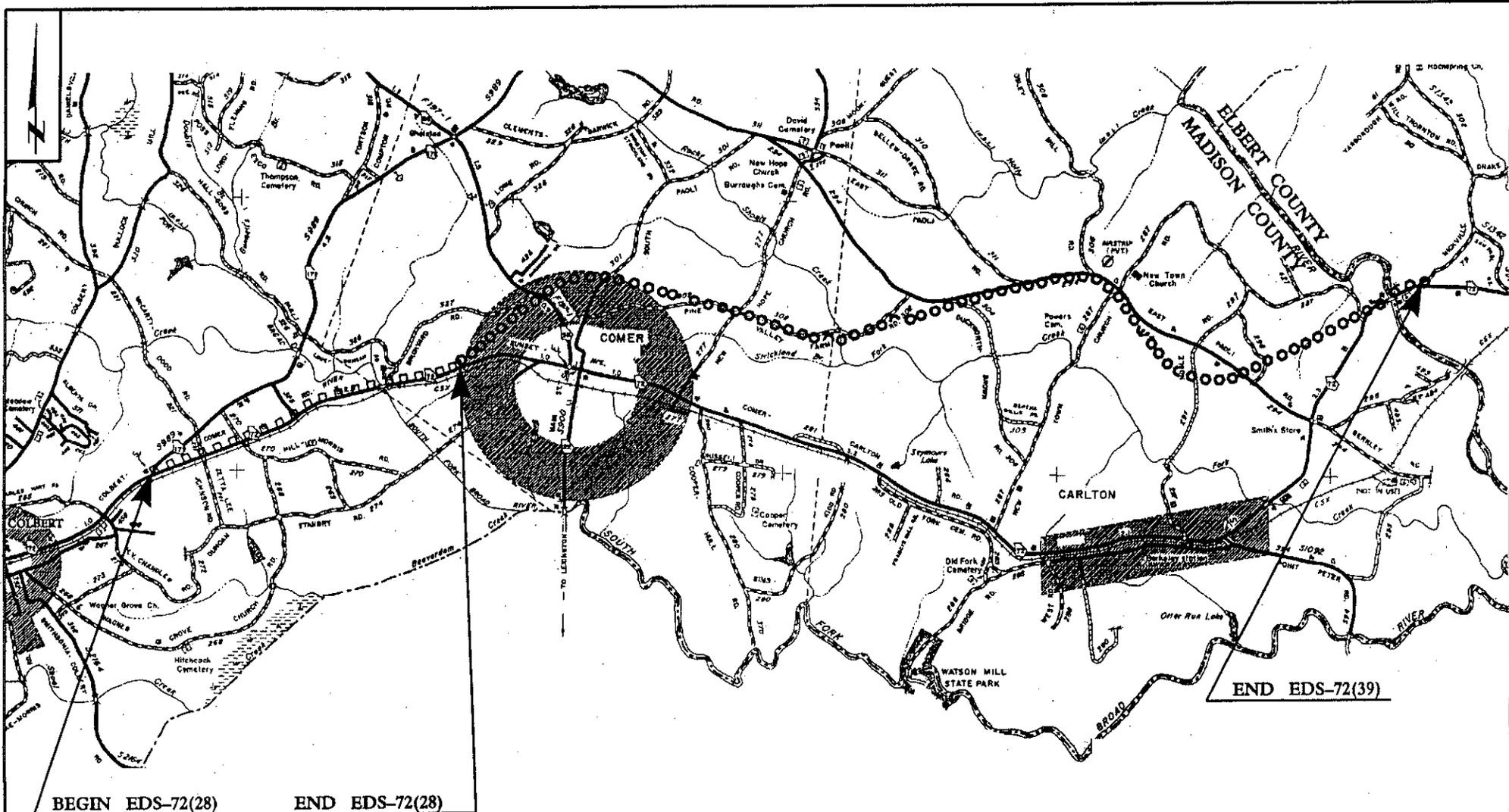
Recommendation: It is recommended that the proposed revision to the concept be approved for implementation.

Concur: *Walker W. Scott*
Walker W. Scott, P.E.
Director of Preconstruction

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

DES/FRM

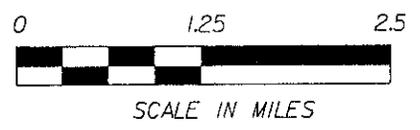
Attachments: Sketch Map
Cost Estimate
Typical Sections



BEGIN EDS-72(28) END EDS-72(28)
 BEGIN EDS-72(39)

END EDS-72(39)

| LEGEND FOR PROJECTS | |
|---------------------|--------|
| EDS-72(28) | □□□□□□ |
| EDS-72(39) | ○○○○○○ |



EDS-72(28),(39)
 SR 72 IMPROVEMENTS
 MADISON COUNTY
 P.I.# 122100 & 122650
 OCTOBER 23, 1997

SOURCE: GENERAL HIGHWAY MAP, MADISON CO., GEORGIA
 PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1991

ESTIMATE SUMMARY

10/21/97

PROJECT LENGTH 2.8 MILES
EDS 72(28) / SR 72 IMPROVEMENTS / MADISON COUNTY
SECTION I & 2

| | | |
|---------------------------------------------------------------------------|--------------|--------------------|
| A. RIGHT OF WAY | \$ 2,378,000 | \$849,000 per mile |
| B. REIMBURSABLE UTILITIES (includes 5% per year for 2 years inflation) | \$ _____ | |

CONSTRUCTION COSTS SUMMARY

| | | |
|--------------------------------------|---------------------|-----------------------------|
| C. MAJOR STRUCTURES | \$ 731,000 | |
| D. GRADING AND DRAINAGE | \$ 1,073,000 | |
| E. BASE AND PAVING | \$ 2,330,000 | |
| F. LUMP ITEMS | \$ 635,000 | |
| G. MISCELLANEOUS | \$ 405,000 | |
| H. SPECIAL FEATURES | \$ <u>85,000</u> | |
| SUBTOTAL CONSTRUCTION COST | \$ 5,259,000 | |
| E & C(10%) | \$ 526,000 | |
| INFLATION (5% per year for 2 years) | \$ 593,000 | |
| TOTAL CONSTRUCTION COST | \$ <u>6,378,000</u> | \$2,278,000 per mile |
| | | |
| GRAND TOTAL CONSTRUCTION COST | \$ 8,756,000 | \$3,127,000 per mile |

PRELIMINARY COST ESTIMATE
OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 122100

DATE: 10-21-1997

PROJECT NO: EDS 72(28)

PROJECT NAME: SR 72 IMPROVEMENTS

COUNTY: MADISON

PROJECT DESCRIPTION:

SECTION I OF II ALONG SR 72 FROM SR 172 TO COMER
CITY LIMITS.

PROJECT LENGTH: 2.800 MILES

SECTION LENGTH: 2.220 MILES

TYPICAL SECTION:

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

*~~PROPOSED~~ R / W = 175 ft

EXISTING ROADWAY (If Applicable):

SR 72

TRAFFIC:

INITIAL DESIGN YEAR: 1996

DAILY VOLUME (AADT): 6,700

FINAL DESIGN YEAR: 2016

DAILY VOLUME (AADT): 9,900

COMMENTS:

RIGHT OF WAY IS FOR TOTAL 2.8 MILES

PREPARED BY: FRED MATHENY

PROJECT COSTS

A. RIGHT - OF - WAY

| | |
|----------------------------------|---------------------|
| 1. PROPERTY (Land and Easements) | \$ 114,000 |
| 2. DISPLACEMENTS | \$ 1,198,000 |
| 3. OTHER COST | \$ 1,066,000 |
| SUBTOTAL | <u>\$ 2,378,000</u> |

B. REIMBURSABLE UTILITIES

| | |
|-----------------------|-------------|
| 1. RAILROAD | \$ 0 |
| 2. TRANSMISSION LINES | \$ 0 |
| 3. SERVICES | \$ 0 |
| SUBTOTAL | <u>\$ 0</u> |

C. MAJOR STRUCTURES

| | |
|---------------------------------------------------------------------|-------------------|
| 1. WALLS | \$ 0 |
| <hr/> | |
| 2. BRIDGE STREAM CROSSING WIDENING SOUTH FORK BROAD RIVER BRIDGE | <u>\$ 731,000</u> |
| 3. BRIDGE OVER/UNDERPASS | \$ 0 |
| <hr/> | |
| 4. BOX CULVERTS | \$ 0 |
| <hr/> | |
| SUBTOTAL | <u>\$ 731,000</u> |

D. GRADING AND DRAINAGE

| | |
|-----------------------------------------------------------------------|---------------------|
| 1. EARTHWORK | |
| a. UNCLASSIFIED EXCAVATION SOIL | \$ 365,000 |
| 160,000 CY @ \$2.28 | |
| b. UNCLASSIFIED EXCAVATION ROCK | \$ 375,000 |
| 75,000 CY @ \$5.00 | |
| c. BORROW EXCAVATION | \$ 0 |
| 0 CY @ \$3.00 | |
| 2. DRAINAGE | |
| a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System) | \$ 151,000 |
| 2.220 MILES @ \$68,040 | |
| b. CURB AND GUTTER | \$ 111,000 |
| 12,000 LF @ \$9.21 | |
| SUBTOTAL | <u>\$ 1,002,000</u> |

PROJECT COSTS

con't.

E. BASE AND PAVING

| | | |
|------------------------------|-------------|-----------|
| 1. GRADED AGGREGATE BASE | \$ | 586,000 |
| 12.00" -- 50,637 T @ \$11.57 | | |
| <hr/> | | |
| 2. ASPHALT PAVING | | |
| a. ASPHALTIC CONCRETE "E" | \$ | 222,000 |
| 1.50" -- 6,740 T @ \$33.01 | | |
| b. ASPHALTIC CONCRETE "B" | \$ | 285,000 |
| 2.00" -- 8,987 T @ \$31.76 | | |
| c. ASPHALTIC CONCRETE BASE | \$ | 687,000 |
| 6.25" -- 22,466 T @ \$30.58 | | |
| d. BITUMINOUS TACK COAT | \$ | 7,000 |
| 8,572 G @ \$0.86 | | |
| <hr/> | | |
| 3. CONCRETE PAVING | \$ | 0 |
| 4. OTHER PAVING | \$ | 179,000 |
| | SUBTOTAL \$ | 1,966,000 |

F. LUMP ITEMS

| | | |
|------------------------------------------|-------------|---------|
| 1. TRAFFIC CONTROL | \$ | 25,000 |
| 2. CLEARING AND GRUBBING | \$ | 221,000 |
| 47 ACRES @ \$4,700 | | |
| <hr/> | | |
| 3. LANDSCAPING | \$ | 191,000 |
| 2.220 MILES @ \$86,040 | | |
| <hr/> | | |
| 4. EROSION CONTROL | \$ | 102,000 |
| 2.220 MILES @ \$46,050 | | |
| <hr/> | | |
| 5. DETOURS (Including Temporary Bridges) | \$ | 0 |
| | SUBTOTAL \$ | 539,000 |

G. MISCELLANEOUS

| | | |
|-------------------------------------------|-------------|---------|
| 1. SIGNING/STRIPING | \$ | 82,000 |
| 2.220 MILES @ \$37,000 | | |
| <hr/> | | |
| 2. GUARDRAIL | \$ | 7,000 |
| 480 LF @ \$10.78 + 2 Anchors @ \$1,230.99 | | |
| <hr/> | | |
| 3. OTHER | \$ | 266,000 |
| 2.220 MILES @ \$120,000 | | |
| <hr/> | | |
| | SUBTOTAL \$ | 355,000 |

H. SPECIAL FEATURES

| | | |
|--------------------|----|--------|
| CROSS ROAD TIE INS | \$ | 60,000 |
|--------------------|----|--------|

ESTIMATE SUMMARY

| | | SECTION COST (per mile) |
|---------------------------|--------------|----------------------------|
| A. RIGHT-OF-WAY | \$ 2,378,000 | \$ 1,071,000 |
| B. REIMBURSABLE UTILITIES | \$ 0 | \$ 0 |

CONSTRUCTION COST SUMMARY

| | | |
|---------------------------------|-------------------|------------------|
| C. MAJOR STRUCTURES | \$ 731,000 | |
| D. GRADING AND DRAINAGE | \$ 1,002,000 | |
| E. BASE AND PAVING | \$ 1,966,000 | |
| F. LUMP ITEMS | \$ 539,000 | |
| G. MISCELLANEOUS | \$ 355,000 | |
| H. SPECIAL FEATURES | <u>\$ 60,000</u> | |
| SUBTOTAL CONSTRUCTION COST | \$ 4,653,000 | \$ 2,096,000 |
| E. & C. (10%) | \$ 465,000 | |
| INFLATION 2 yr(s) @ 5% per year | <u>\$ 525,000</u> | |
| TOTAL CONSTRUCTION COST | \$ 5,643,000 | \$ 2,542,000 |

| | | |
|-------------------------------|--------------|--------------|
| GRAND TOTAL CONSTRUCTION COST | \$ 8,021,000 | \$ 3,613,000 |
|-------------------------------|--------------|--------------|

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

PRELIMINARY COST ESTIMATE
OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 122100

DATE: 10-21-1997

PROJECT NO: EDS 72(28)

PROJECT NAME: SR 72 IMPROVEMENTS

COUNTY: MADISON

PROJECT DESCRIPTION:

SECTION II OF II ALONG SR 72 FROM SR 172 TO COMER
CITY LIMITS.

PROJECT LENGTH: 2.800 MILES

SECTION LENGTH: 0.580 MILES

TYPICAL SECTION:

PROPOSED WIDENING=2 ITS 4 LANES WITH 20' RAISED MEDIAN WIDEN ON ONE SIDE (48' PAV'T)

EXISTING ROADWAY (If Applicable):

SR72

TRAFFIC:

INITIAL DESIGN YEAR: 1996

DAILY VOLUME (AADT): 6,700

FINAL DESIGN YEAR: 2016

DAILY VOLUME (AADT): 9,900

COMMENTS:

RIGHT OF WAY IS 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 |
| <hr/> | | |
| 2. BRIDGE STREAM CROSSING | \$ | 0 |
| <hr/> | | |
| 3. BRIDGE OVER/UNDERPASS | \$ | 0 |
| <hr/> | | |
| 4. BOX CULVERTS | \$ | 0 |
| <hr/> | | |
| SUBTOTAL | \$ | 0 |

D. GRADING AND DRAINAGE

| | | |
|-----------------------------------------------------------------------|----|--------|
| 1. EARTHWORK | | |
| a. UNCLASSIFIED EXCAVATION SOIL | \$ | 21,000 |
| 9,000 CY @ \$2.28 | | |
| b. UNCLASSIFIED EXCAVATION ROCK | \$ | 4,000 |
| 750 CY @ \$5.00 | | |
| c. BORROW EXCAVATION | \$ | 0 |
| 0 CY @ \$3.00 | | |
| 2. DRAINAGE | | |
| a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System) | \$ | 17,000 |
| 0.580 MILES @ \$29,970 | | |
| b. CURB AND GUTTER | \$ | 29,000 |
| 3,100 LF @ \$9.21 | | |
| SUBTOTAL | \$ | 71,000 |

PROJECT COSTS

con't.

E. BASE AND PAVING

| | | |
|-----------------------------------|-----------|----------------|
| 1. GRADED AGGREGATE BASE | \$ | 85,000 |
| 12.00" -- 7,350 T @ \$11.57 | | |
| <hr/> | | |
| 2. ASPHALT PAVING | | |
| a. ASPHALTIC CONCRETE "E" | \$ | 70,000 |
| 1.50" -- 2,113 T @ \$33.01 | | |
| <hr/> | | |
| b. ASPHALTIC CONCRETE "B" | \$ | 89,000 |
| 2.00" -- 2,817 T @ \$31.76 | | |
| <hr/> | | |
| c. ASPHALTIC CONCRETE BASE | \$ | 86,000 |
| 6.00" -- 2,817 T @ \$30.58 | | |
| <hr/> | | |
| d. BITUMINOUS TACK COAT | \$ | 1,000 |
| 1,739 G @ \$0.86 | | |
| <hr/> | | |
| 3. CONCRETE PAVING | \$ | 0 |
| <hr/> | | |
| 4. OTHER PAVING | \$ | 33,000 |
| <hr/> | | |
| SUBTOTAL | \$ | 364,000 |

F. LUMP ITEMS

| | | |
|-------------------------------------------------|-----------|---------------|
| 1. TRAFFIC CONTROL | \$ | 7,000 |
| <hr/> | | |
| 2. CLEARING AND GRUBBING | \$ | 58,000 |
| 12 ACRES @ \$4,700 | | |
| <hr/> | | |
| 3. LANDSCAPING | \$ | 14,000 |
| 0.580 MILES @ \$24,960 | | |
| <hr/> | | |
| 4. EROSION CONTROL | \$ | 17,000 |
| 0.580 MILES @ \$30,000 | | |
| <hr/> | | |
| 5. DETOURS (Including Temporary Bridges) | \$ | 0 |
| <hr/> | | |
| SUBTOTAL | \$ | 96,000 |

G. MISCELLANEOUS

| | | |
|-----------------------------------------|-----------|---------------|
| 1. SIGNING/STRIPING | \$ | 21,000 |
| 0.580 MILES @ \$37,000 | | |
| <hr/> | | |
| 2. GUARDRAIL | \$ | 0 |
| 0 LF @ \$10.78 + 0 Anchors @ \$1,230.99 | | |
| <hr/> | | |
| 3. OTHER | \$ | 29,000 |
| 0.580 MILES @ \$50,100 | | |
| <hr/> | | |
| SUBTOTAL | \$ | 50,000 |

H. SPECIAL FEATURES

| | | |
|----------------------|----|--------|
| <u>CR 221 TIE IN</u> | \$ | 25,000 |
| <hr/> | | |

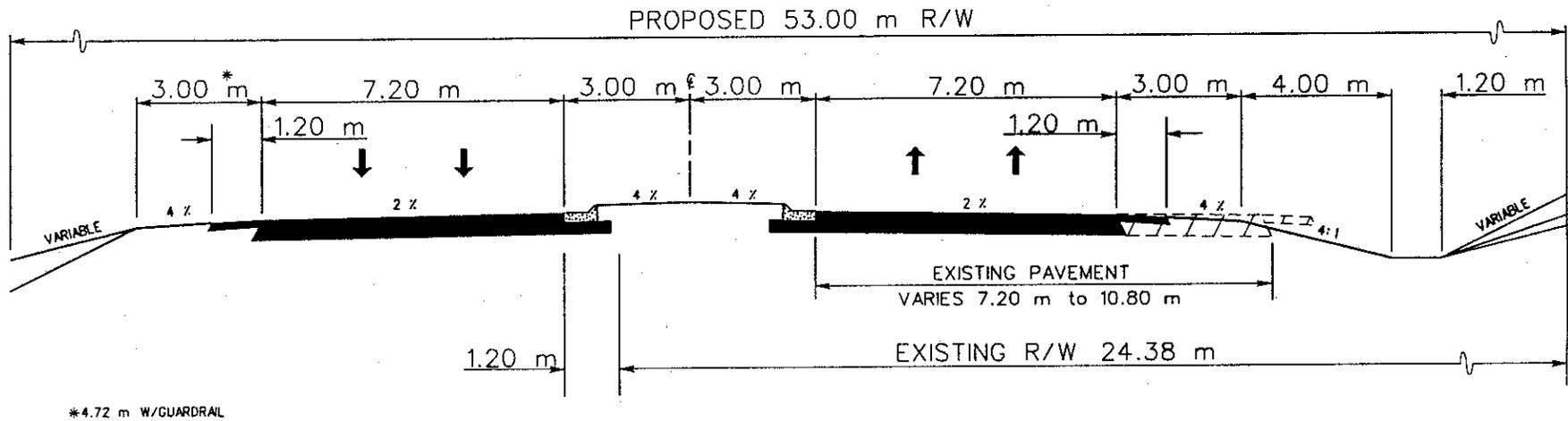
ESTIMATE SUMMARY

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

CONSTRUCTION COST SUMMARY

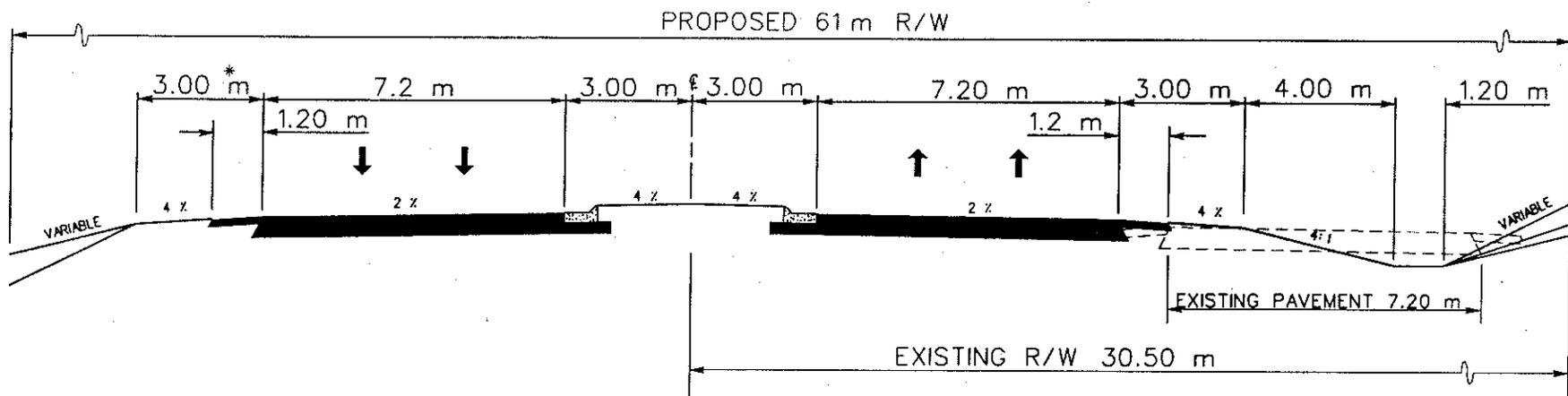
| | | |
|-------------------------------------|----------------------|------------------|
| C. MAJOR STRUCTURES | \$ 0 | |
| D. GRADING AND DRAINAGE | \$ 71,000 | |
| E. BASE AND PAVING | \$ 364,000 | |
| F. LUMP ITEMS | \$ 96,000 | |
| G. MISCELLANEOUS | \$ 50,000 | |
| H. SPECIAL FEATURES | <u>\$ 25,000</u> | |
| SUBTOTAL CONSTRUCTION COST | \$ 606,000 | \$ 1,045,000 |
| E. & C. (10%) | \$ 61,000 | |
| INFLATION 2 yr(s) @ 5% per year | <u>\$ 68,000</u> | |
| TOTAL CONSTRUCTION COST | \$ 735,000 | \$ 1,267,000 |
| <hr/> | | |
| GRAND TOTAL CONSTRUCTION COST | \$ 735,000 | \$ 1,267,000 |

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



TYPICAL CROSS SECTION
 S.R. 72 IMPROVEMENTS
 EDS-72(28), MADISON COUNTY
 FROM S.R. 172 TO C.R. 325

NOT TO SCALE



TYPICAL CROSS SECTION
 S.R. 72 IMPROVEMENTS
 EDS-72(28), MADISON COUNTY
 FROM C.R. 325 TO WEST CITY LIMITS COMER

NOT TO SCALE