

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0630(10) Bryan County OFFICE Preconstruction
P.I. No. 532370 DATE March 18, 1993

FROM *CW Hutto*
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/se

Attachment

DISTRIBUTION:

- John Lively
- Robert E. Humphrey
- David Studstill
- Herman Griffin
- Roland Hinners
- Darrell Elwell
- George Boulineau
- Marion Waters
- Ronald Davis

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE.

FILE STP-0630(10) Bryan County **OFFICE** Preconstruction
P.I. No. 5B2370 **DATE** March 11, 1993

FROM Hoyt A. Lively, Jr., P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the widening of SR 144 for an eastbound passing lane from south of CR 244 to north of CR 154 which is located northwest of Hardwicke in Bryan County. The existing roadway consists of 24' pavement with 5' and variable shoulders. The posted speed and the design speed is 55 MPH. The base year traffic (1997) is 5,650 VPD and the design year traffic (2017) is 9,300 VPD.

The proposed widening will consist of an additional 12' on the south side. The shoulders will be widened to 10'. Traffic will be maintained on the existing roadway during traffic.

Environmental concerns include requiring a Nationwide 404 permit; a CE will be prepared; no displacements; a public hearing will not be offered; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$401,599	\$490,000	Long Range
Rights-of-way	\$37,700	\$6,000	
Utilities	*LGPA	---	

*LGPA anticipated

I recommend this project concept be approved.

HJL/TMR/se

Attachment

CONCUR: G. C. Lewis
G. C. Lewis
State Highway Engineer

APPROVED: Wayne Shackelford
Wayne Shackelford
Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RECEIVED

MAR 09 1993

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0630(10) Bryan County OFFICE Atlanta, Georgia
P.I. No. 532370
SR 144 EB Passing Lane DATE March 8, 1993

FROM Robert E. Humphrey, Project Review Engineer *REH*

TO Hoyt J. Lively, Jr., Director of Preconstruction

SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Minor project.

The Report states that Utility relocations will be the responsibility of local government, however, a Local Government Project Agreement was not included with the Report.

We have received signed cover sheets from the following offices:

Traffic and Safety
Environmental
Road Design

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	\$331,900
Inflation (5% per year) x 2 yrs.	\$ 33,200
E & C (10%)	\$ 36,500
Preliminary Engineering (5%)	\$ 16,600
Right of Way	\$ 37,700
Utilities	LGPA

BDM/kmp

Attachments

c: Ronald Davis

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0630 (10), Bryan County
SR-144 EB Passing Lane - MP 14.0 to 15.5
P.I. 532370

OFFICE Jesup
DATE February 3, 1993

FROM Ronald W. Davis, P.E., District Engineer
TO Robert Humphrey, State Project Review Engineer
Atlanta

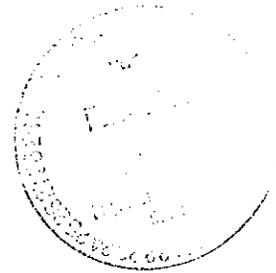
SUBJECT PROJECT CONCEPT REPORT

Attached for your review is the project concept report for the above captioned project.

HDB:WOL:1b

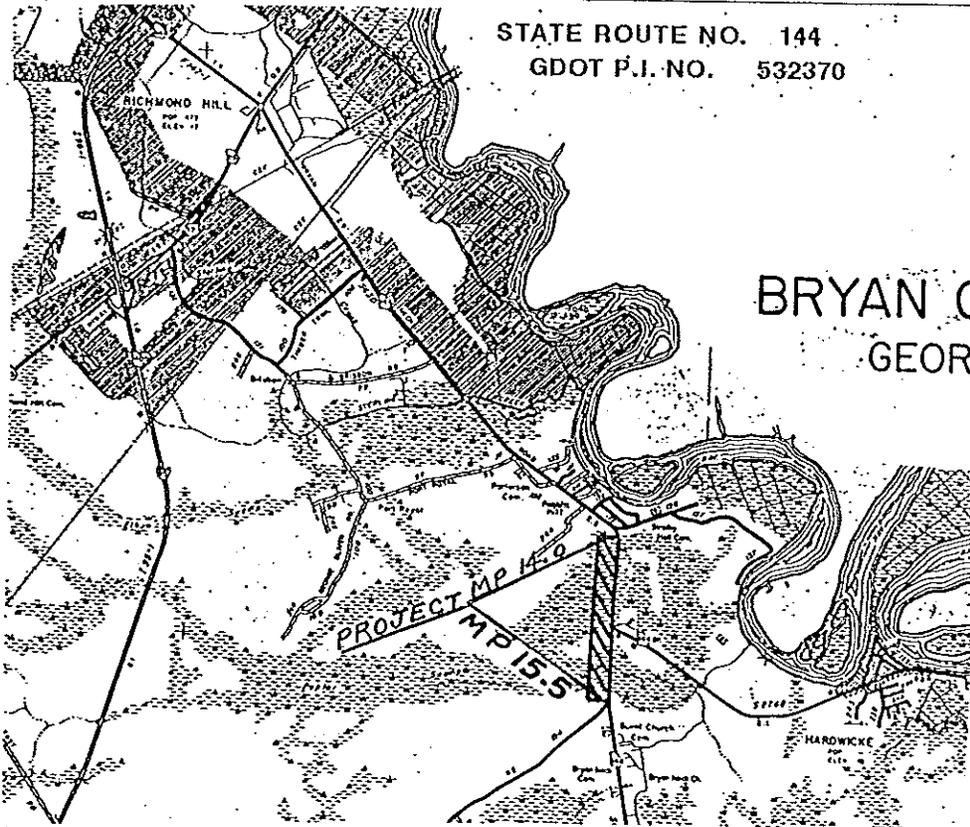
Attachments

- cc: w/attachments
- Mr. John Lively
- Mr. Ron Colvin
- Mr. Tom Turner
- Mr. Roland Hinners
- Mr. David Studstill
- Mr. Wayne Hutto
- Mr. Larry Dreggors
- Mr. Jerome Sheffield
- Mr. Gene Vinson
- Mr. Harold Joyner
- Mr. Franklin Griffis
- Mr. David Crim
- Mr. Andy Tanner
- Mr. Elton Aspinwall
- Mr. Pete Blocker



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

STP-0630(10) BRYAN COUNTY



STATE ROUTE NO. 144
GDOT P.I. NO. 532370

BRYAN COUNTY
GEORGIA

DATE OF REPORT 1-13-93

NO SCALE

RECOMMENDED FOR APPROVAL

DATE

ROAD & AIRPORT DESIGN ENGINEER

DATE

ENVIRONMENTAL/LOCATION ENGINEER

DATE

TRAFFIC & SAFETY ENGINEER

DATE

BRIDGE & STRUCTURAL DESIGN ENGINEER

DATE

2-2-93

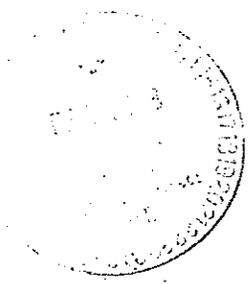
Ronald W. Davis
DISTRICT ENGINEER

DATE

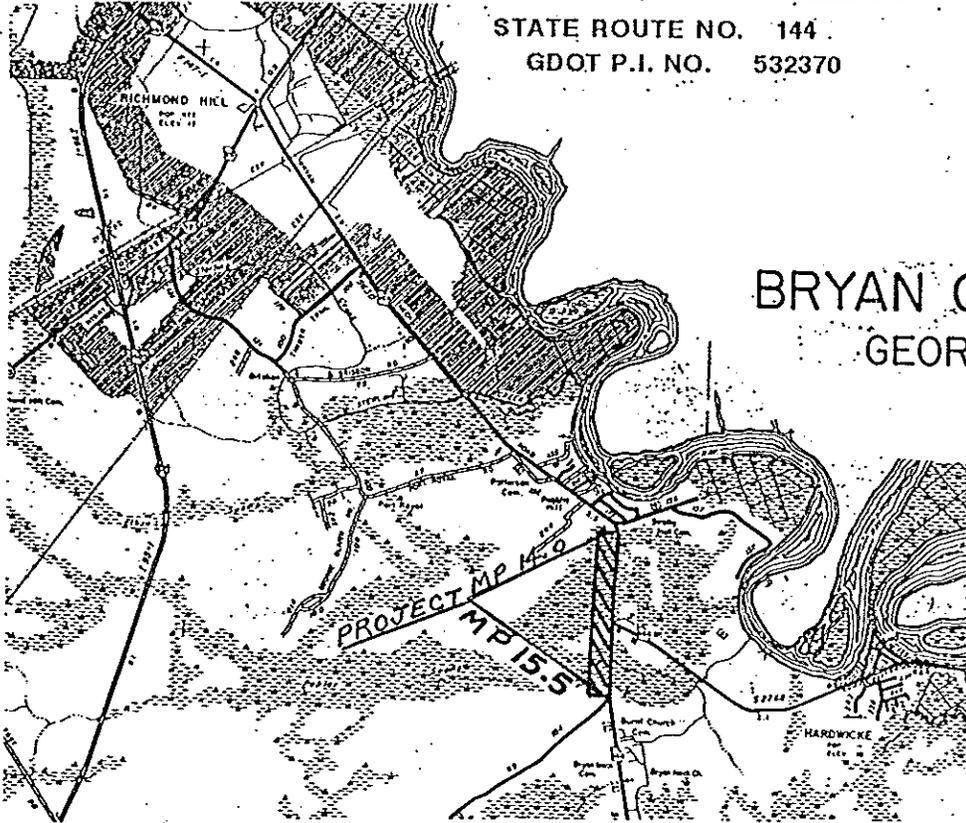
PROJECT REVIEW ENGINEER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

STP-0630(10) BRYAN COUNTY



STATE ROUTE NO. 144
GDOT P.I. NO. 532370



BRYAN COUNTY
GEORGIA



DATE OF REPORT 1-13-93

NO SCALE

RECOMMENDED FOR APPROVAL

DATE

ROAD & AIRPORT DESIGN ENGINEER

DATE

ENVIRONMENTAL/LOCATION ENGINEER

DATE

2/8/93

M. G. Waters, III
TRAFFIC & SAFETY ENGINEER

DATE

BRIDGE & STRUCTURAL DESIGN ENGINEER

DATE

2-2-93

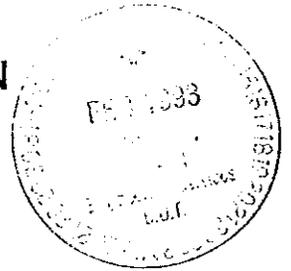
Ronald C. Davis
DISTRICT ENGINEER

DATE

PROJECT REVIEW ENGINEER

MW

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE STP-0630(10) OFFICE Atlanta, GA
 Bryan County
 P.I. No. 532370 DATE Feb. 8, 1993

FROM *ABR for* M. G. Waters III, P.E., State Traffic & Safety Engineer

TO Robert E. Humphrey, P.E., Project Review Engineer

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the proposed widening of SR 144 from the existing two lane roadway to a three lane section between CR 244 and CR 154 by constructing an eastbound passing lane. We believe this concept will improve safety and operational capacity along this section of roadway. We therefore find this report satisfactory for approval.

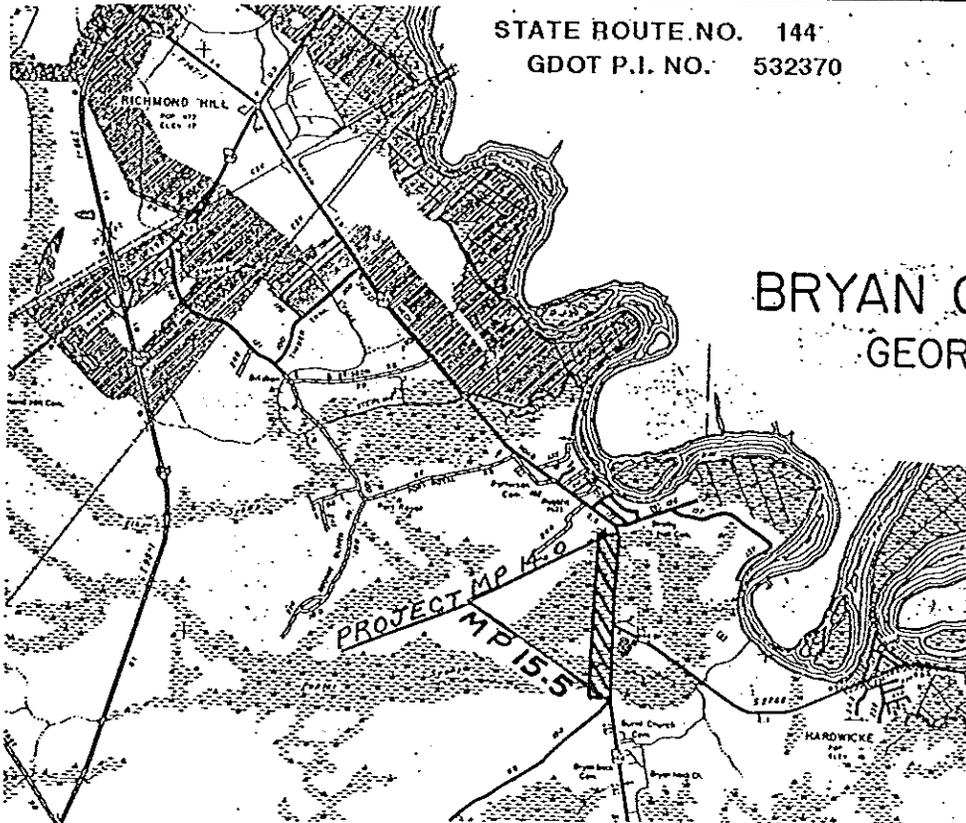
MGW:CKE:sm

Attachment

cc: Ronald Davis
Melinda Boothe

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

STP-0630(10) BRYAN COUNTY



STATE ROUTE NO. 144
GDOT P.I. NO. 532370

BRYAN COUNTY
GEORGIA

DATE OF REPORT 1-13-93

NO SCALE

RECOMMENDED FOR APPROVAL

DATE

DATE

DATE

DATE

DATE

DATE

ROAD & AIRPORT DESIGN ENGINEER

ENVIRONMENTAL/LOCATION ENGINEER

TRAFFIC & SAFETY ENGINEER

BRIDGE & STRUCTURAL DESIGN ENGINEER

DISTRICT ENGINEER

PROJECT REVIEW ENGINEER

2/17/93

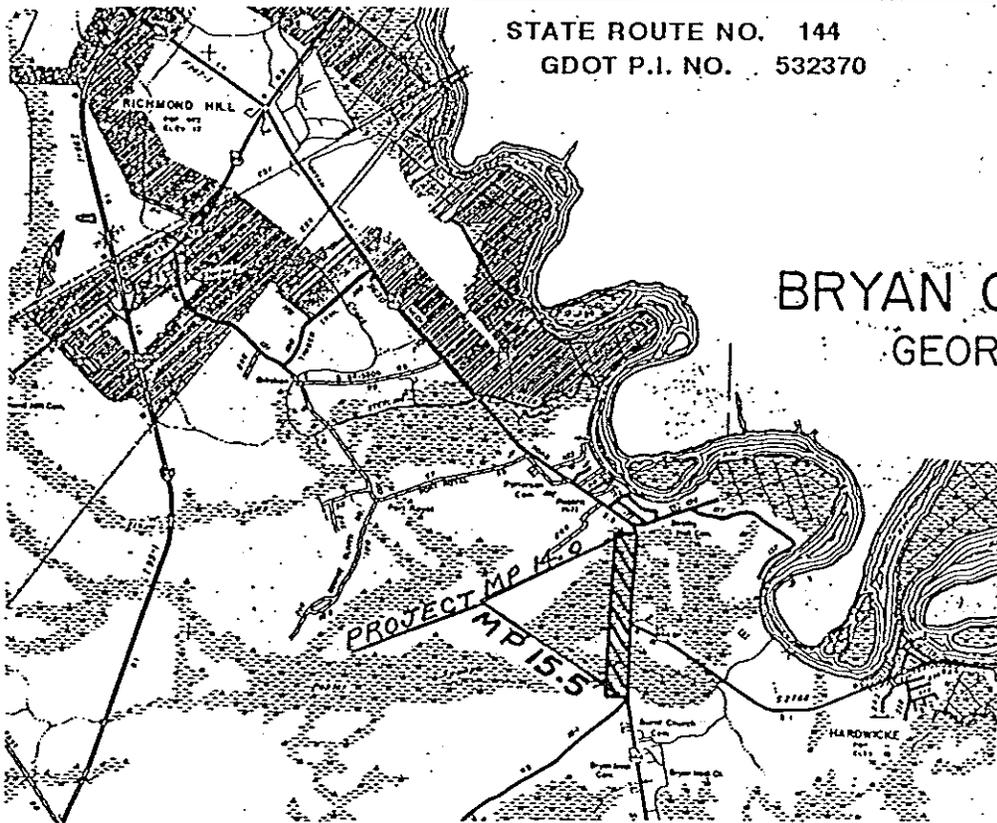
[Signature]

2-2-93

[Signature]

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

STP-0630(10) BRYAN COUNTY



STATE ROUTE NO. 144
GDOT P.I. NO. 532370

BRYAN COUNTY
GEORGIA



DATE OF REPORT 1-13-93

NO SCALE

RECOMMENDED FOR APPROVAL

2-19-93
DATE

Robert H. ...
ROAD & AIRPORT DESIGN ENGINEER

DATE

ENVIRONMENTAL/LOCATION ENGINEER

DATE

TRAFFIC & SAFETY ENGINEER

DATE

BRIDGE & STRUCTURAL DESIGN ENGINEER

2-2-93
DATE

Robert W. ...
DISTRICT ENGINEER

DATE

PROJECT REVIEW ENGINEER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-0630(10)Bryan County
P.I. No. 532370

OFFICE Atlanta

DATE Feb. 17, 1993

FROM *Roland Hinners*
Roland Hinners, State Road & Airport Design Engineer *RHB*
TO Robert Humphrey, Project Review Engineer

SUBJECT Concept Report

The concept report for this project has been reviewed and is considered to be satisfactory except as noted below.

The local government project agreement was not included in the report.

Cost Estimate: The cost estimate should contain a statement indicating within which Congressional District the project is located.

Typical Section: The typical section should have a rate of slope for the offside shoulder and embankment.

General: It appears that there may be wetland involvement on this project.

A signed concept report cover sheet is attached for your use.

RH:PMB:bc
Attachment

xc: Wayne Hutto
David Studstill
Marion Waters
Ronald Davis



PROJECT CONCEPT REPORT

DATE: 1-13-93

PROJECT NUMBER: STP-0630(10)

COUNTY: BRYAN

PROJECT NAME: SR 144 E.B PASSING LANE

LENGTH: 1.50 MI

P.I. NUMBER: 532370 U.S. ROUTE NO.: NONE

STATE ROUTE NO.: 144

LOCATION

SR 144 E.B. PASSING LANE

M.P. 14.0 TO M.P. 15.5 E.B. FROM S. C.R. 244 TO N. OF C.R. 154

TRAFFIC

<u>YEAR</u>	<u>CURRENT</u>	<u>AADT</u>	<u>YEAR</u>	<u>PROJECTED</u>	<u>AADT</u>
1997		5650	2017		9300

PDP CLASSIFICATION NON-CA CA EXEMPT FUNCTIONAL CLASSIFICATION
MINOR () () () RURAL FAS MAJOR COLLECTOR

EXISTING TYPICAL SECTION

24 FEET OF ASPHALT PAVEMENT WITH 5 FOOT AND VARIABLE SHOULDERS ON 80 FEET OF EXISTING R/W

POSTED SPEED MAX EXIST DEGREE OF CURVE MAX EXIST GRADE
55 mph NONE < 1 %

EXISTING MAJOR STRUCTURES

RANK: N.RTG S.RTG FEATURES INTERSECTED LENGTH WIDTH
NONE

PROJECT NEED: THIS PROJECT IS LOCATED ON A SECTION OF HIGHWAY WITH NUMEROUS TURN MOVEMENTS AND RELATIVELY HIGH TRAFFIC VOLUMES. CONSTRUCTION OF A PASSING LANE WILL BETTER FACILITATE TRAFFIC AND MAKE THIS A SAFER AND MORE EFFICIENT HIGHWAY.

PROPOSED TYPICAL SECTION

WIDEN EXISTING 24 FOOT WIDE PAVEMENT 12 FEET ON THE SOUTH SIDE TO PROVIDE AN EASTBOUND PASSING LANE. SHOULDERS TO BE WIDENED TO 10 FEET WIDE WITH 4:1 FRONT SLOPES TO PROVIDE A CLEAR ZONE OF 26 FEET WIDE FOR THE PROJECT. AREAS NOT MEETING CLEAR ZONE SHALL BE PROTECTED WITH GUARDRAIL OR OTHER APPROPRIATE MEASURES. 20 FEET ADDITIONAL R/W ON THE PL SIDE. OFFSIDE SHOULDERS & FRONT SLOPES TO BE UPGRADED TO MEET CLEAR ZONE. RESURFACING NOT REQUIRED AT THIS TIME.

<u>DESIGN SPEED</u>	<u>MAX DEGREE OF CURVE</u>	<u>MAX GRADE</u>
<u>55</u> mph	ALLOWABLE <u>6.00</u>	ALLOWABLE <u>6.5</u> %
	PROPOSED <u>NONE</u>	PROPOSED <u>< 1</u> %

MAJOR STRUCTURES

NONE

TYPE ACCESS: CONTROLLED BY PERMIT

TRAFFIC CONTROL DURING CONSTRUCTION: TRAFFIC SHALL BE

MAINTAINED THRU THE PROJECT DURING CONSTRUCTION.

DESIGN VARIATIONS REQUIRED:

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

DISPLACEMENTS: NONE

LEVEL OF ENVIRONMENTAL ANALYSIS: CATEGORICAL EXCLUSION

LEVEL OF PUBLIC INVOLVEMENT: NO PUBLIC HEARING WILL BE OFFERED

TIME SAVINGS PROCEDURES APPROPRIATE: YES NO

OTHER PROJECTS IN AREA:	NH-095-1(108)	BRSRB-2768(2)
STP-0630(8)	STP-009-2(72)	STP-2768(1)
STP-009-2(74)	STPN-009-2(73)	BRSRB-0630(7)

CONCEPT TEAM MEETING DATE: 1-07-93

LOCATION INSPECTION DATE: 1-07-93

PERMITS REQUIRED(COE 404,etc): NATIONWIDE 404

UNDERGROUND STORAGE TANKS: NONE

HAZARDOUS WASTE SITES: NONE

OTHER ALTERNATES CONSIDERED: NO BUILD

COMMENTS: RECOMMEND CONSTRUCTION OF THE EASTBOUND PASSING LANE FROM MILEPOST 14.0 TO MILEPOST 15.5.

attachments: TYPICAL SECTION
CONCEPT MEETING MINUTES
LOCATION SKETCH
ESTIMATE
RD. INV. DATA LISTING
LGPA (NOT AVAILABLE AT THIS TIME) (3)

Prepared by: Ollie Lindell
W.O. Lindell
District Design
Approved by: Gene Vinson
Gene Vinson
District Preconstruction
Engineer

PRELIMINARY COST ESTIMATE

DATE: 1-13-93

PROJECT NO.: STP-0630(10)

P.I. NO.: 532370

PROJECT DESCRIPTION: SR 144 EASTBOUND PASSING LANE
FROM MILEPOST 14.0 TO MILEPOST 15.5

PROPOSED CONCEPT: PASSING LANE

EXISTING ROADWAY(if applicable):

TRAFFIC: EXISTING (1997) 5650 DESIGN (2017) 9300

PROGRAMMING PROCESS CONCEPT DEVELOPMENT

DURING PROJECT DEVELOPMENT

PROJECT COSTS

A. RIGHT OF WAY

1. PROPERTY	\$	37,700	DOT
2. DISPLACEMENT & RELOCATION	\$	0	DOT
3. OTHER COSTS	\$	0	DOT
SUB-TOTAL	\$	37,700	DOT

B. REIMBURSABLE UTILITIES

1. RAILROAD	\$	0	LGPA
2. TRANSMISSION LINES	\$	0	LGPA
3. SERVICES	\$	0	LGPA
SUB-TOTAL	\$	0	LGPA

C. MAJOR STRUCTURES:

1. WALLS	\$	0
2. BRIDGE STREAM CROSSINGS	\$	0
3. BRIDGE OVER/UNDERPASS	\$	0
4. BOX CULVERTS	\$	0
SUB-TOTAL	\$	0

D. GRADING AND DRAINAGE:

1. EARTHWORK	\$	50,000
2. DRAINAGE		
a. CROSS DRAIN PIPES (EXC BOX CVTS)	\$	1,200
b. CURB & GUTTER	\$	0
c. LONGITUDINAL SYSTEM (INCL CATCH BASINS)	\$	0
SUB-TOTAL	\$	51,200

E. BASE AND PAVING:

1. AGGREGATE BASE	\$	0
2. ASPHALT PAVING	\$	209,700
3. CONCRETE PAVING	\$	0
4. OTHER	\$	0
SUB-TOTAL	\$	209,700

F. LUMP SUM ITEMS:

1. TRAFFIC CONTROL	\$	12,000
2. CLEARING & GRUBBING	\$	36,000
3. LANDSCAPING	\$	0
4. EROSION CONTROL	\$	15,000
5. DETOURS (INCL TEMP BRIDGES)	\$	0
SUB-TOTAL	\$	63,000

G. MISCELLANEOUS:

1. LIGHTING	\$	0
2. SIGNING & STRIPING	\$	8,000
3. GUARDRAIL	\$	0
4. OTHER-SIGNALS	\$	0
SUB-TOTAL	\$	8,000

H. SPECIAL FEATURES:

SUB-TOTAL	\$	0
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ESTIMATE SUMMARY

A. RIGHT OF WAY	\$	37,700	DOT
B. REIMBURSABLE UTILITIES	\$	0	LGPA

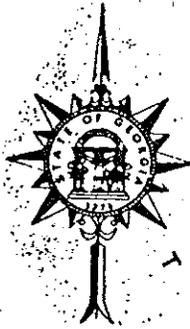
CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$	0
D. GRADING AND DRAINAGE	\$	51,200
E. BASE AND PAVING	\$	209,700
F. LUMP ITEMS	\$	63,000
G. MISCELLANEOUS	\$	8,000
H. SPECIAL FEATURES	\$	0

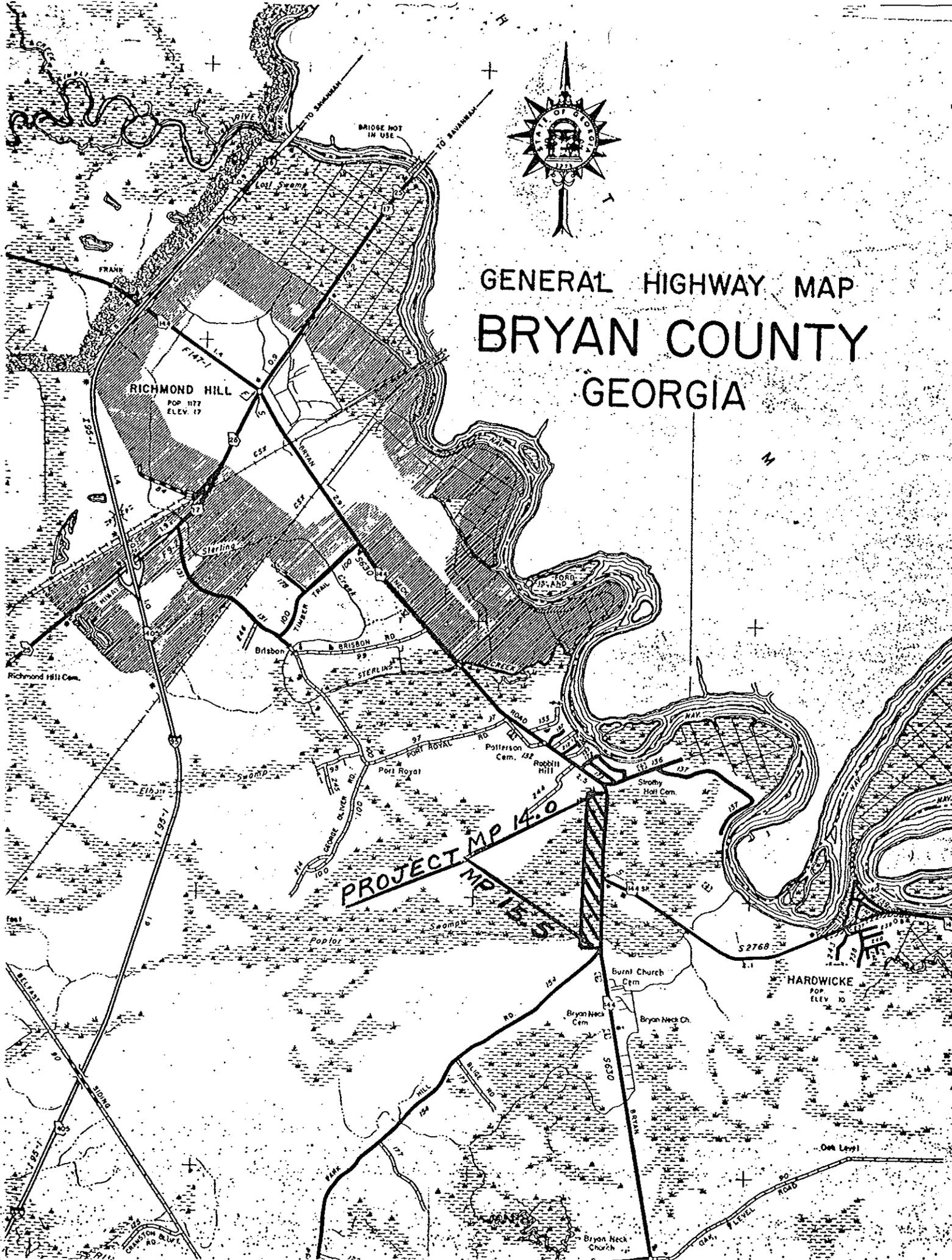
SUB-TOTAL CONSTR. COST	\$	331,900
E.& C. (10%)	\$	33,190
INFLATION (5% PER YEAR) (2 YEARS)	\$	33,190

TOTAL CONSTRUCTION COST	\$	398,280
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GRAND TOTAL PROJECT COST \$ 435,980



GENERAL HIGHWAY MAP BRYAN COUNTY GEORGIA



TEAM CONCEPT MEETING MINUTES
STP-0630 (10), BRYAN COUNTY
P.I. NO. 532370

A Team Concept Meeting for the above captioned project was held on Thursday, January 7, 1993, at the proposed site. The following persons were in attendance:

Gene Vinson, District Preconstruction Engineer
Jerome Sheffield, Area 5 Construction Engineer
Bobby Brown, Area 5 Construction
Dannis Smith, District Traffic & Safety & Utilities
Ollie Lindell, District Design

Project STP-0630 (10), Bryan County is for a proposed eastbound passing lane on S.R. 144 east of Richmond Hill from Milepost 14.0 to Milepost 15.5.

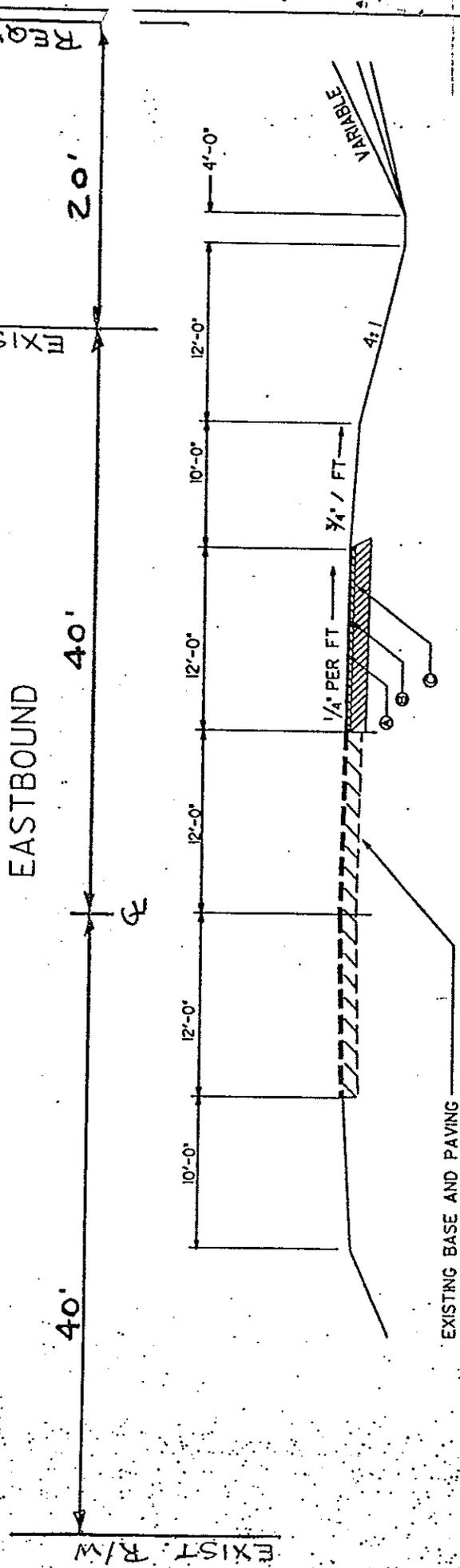
The Concept Team made an on site inspection of the proposed location of this passing lane. The team concurs with the milepost as stated.

Typical sections and a location map are attached for reference.

PREPARED BY: Ollie Lindell
W. O. Lindell
District Design

MILE	R/E	MILE	DESCRIPTION	SPD	CD	TRL	AUX	LAN	FC	R/W	90 ADP	RD1	RD2
1034	014400	1034		35	A	11	00	13B	07	080A	008510		
1039	014400	1039		35	A	11	00	00	07	080A	008510		
1044	014400	1044	CST 061803 L	35	A	11	00	00	07	080A	008510	HILL AVE	
1055	014400	1055	CST 060803 R	35	A	11	00	00	07	080A	008510	IVEY ST	
1060	014400	1060	CST 061703 L	35	A	11	00	00	07	080A	008510	DEARBORN DR	
1068	014400	1068	CST 060803 R	35	A	11	12000		07	080A	008510	IVEY ST	
1074	014400	1074	CST 060903 R	35	A	11	12000		07	080A	008510	CHERRY ST	
1077	014400	1077	RFG 635040D SCL	35	A	11	00	00	07	080A	008510		
1078	014400	1078	CST 061103 L	35	A	11	00	00	07	080A	008510	YACHT BASIN ST	
1084	014400	1084	CST 061203 R	35	A	11	00	00	07	080A	008510	PINECREST ST	
1092	014400	1092	CST 061403 R	35	A	11	00	00	07	080A	008510	MIMOSA ST	
1099	014400	1099	MP 011	35	A	11	00	00	07	080A	008510		
1100	014400	1100	CST 061603 R	35	A	11	00	00	07	080A	008510	MAGNOLIA ST	
1111	014400	1111	CST 061503 R	45	A	11	00	00	07	080A	008510	CHEROKEE ST	
1137	014400	1137		45	A	11	00	00	07	080A	008510		
1138	014400	1138	CRT 010000 R	45	A	11	00	00	07	080A	005760	TIMBER TR	
1199	014400	1199	MP 012	50	A	11	00	00	07	080A	005760		
1230	014400	1230	CRT 009900 R	50	A	11	00	00	07	080A	005760	ERISEON RD	
1241	014400	1241		55	A	11	140120		07	080A	005760		
1250	014400	1250		55	A	11	00	00	07	080A	005760		
1270	014400	1270	ERS00520	55	A	11	00	00	07	080A	005760	SHERLING CR	
1271	014400	1271	CL RICHMOND HILL CUP	55	A	11	00	00	07	080A	005760		
1299	014400	1299	MP 013	55	A	11	00	00	07	080A	005760		
1331	014400	1331	CRT 009700 R	55	A	11	00	00	07	080A	005760	FORT ROYAL RD	
1352	014400	1352	CRT 013300 L	55	A	11	00	00	07	080A	005760	PRIVATE RD	
1366	014400	1366	CRY 013200 R	55	A	11	00	00	07	080A	005760	RABBIT HILL RD	
1377	014400	1377	CRT 018700 L	55	A	11	00	00	07	080A	005760	BRIARWOOD LN	
1381	014400	1381	CRT 013400 L	55	A	11	00	00	07	080A	005760	SALLETT RD	
1388	014400	1388	CRT 021200 L	55	A	11	00	00	07	080A	005760	DURCHOWN RD	
1391	014400	1391	CRT 013500 L	55	A	11	00	00	07	080A	005760	PRIVATE RD	
1398	014400	1398	CRT 024400 R	55	A	11	00	00	07	080A	005760	CHARLES RD	
1400	014400	1400	MP 014	55	A	11	00	00	07	080A	005760		
1408	014400	1408	CRT 017200 L	55	A	11	00	00	07	080A	005760	OGEECHEE RD	
1433	014400	1433	CRT 013600 L	55	A	11	00	00	07	080A	005760	STRAIHY HALL RD	
1447	014400	1447		55	A	11	00	120	07	080A	005760		
1450	014400	1450	CRT 026100 L	55	A	11	13B120		07	080A	005760	STRAIHY HALL RD	
1451	014400	1451		55	A	11	13B00		07	080A	005760		
1453	014400	1453		55	A	11	00	00	07	080A	005760		
1491	014400	1491		55	A	11	14012E		07	080A	005760		
1494	014400	1494		55	A	11	12B00		07	080A	005760		
1496	014400	1496		55	A	11	00	00	07	080A	005760		
1500	014400	1500	MP 015	55	A	11	00	00	07	080A	005760		
1512	014400	1512	SRT 0144SP L	55	A	11	00	00	07	080A	005760	MALLISIER RD	
1576	014400	1576	CRT 015400 R	55	A	11	00	00	07	080A	002120	PARK HILL RD	
1605	014400	1605	MP 016	55	A	11	00	00	07	080A	002120		
1699	014400	1699	MP 017	55	A	11	00	00	07	080A	002120		
1799	014400	1799	MP 018	55	A	11	00	00	07	080A	002120		
1844	014400	1844	CRX 009000	55	A	11	00	00	07	080A	000900	OAK LEVEL RD	BELFAST KELLER RD
1863	014400	1863	ERS00200 SWEET HILL	55	A	11	00	00	07	080A	000900		
1880	014400	1880	CRY 009100 R	55	A	11	00	00	07	080A	000900	SWEET HILL RD	
1899	014400	1899	MP 019	55	A	11	00	00	07	080A	000900		

PASSING LANE TYPICAL SECTION



PROJECT CLEAR ZONE = 26 ft.

NOTE: SLOPE CONTROLS MAY BE VARIED IN AREAS NOT BEHIND GUARDRAIL IN ORDER TO MEET 'CLEAR ZONE' REQUIREMENTS FOR THIS PROJECT.

SLOPE	CUT	FILL
4:1	0-3'	0-6'
3:1	3'-5'	6'-10'
2:1	OVER 5'	OVER 10'

NOTE: FRONT SLOPES SHALL BE 4:1 OR FLATTER IN AREAS THAT ARE NOT BEHIND GUARDRAIL IN ORDER TO MEET 'CLEAR ZONE' REQUIREMENTS FOR THIS PROJECT.

NOTE: STANDARD CROSS-SLOPE OF 1/4" PER FOOT MAY BE VARIED, AS DIRECTED BY THE ENGINEER, BETWEEN 3/8" PER FOOT AND 5/8" PER FOOT TO BEST FIT THE EXISTING ROADWAY AS PER SECTION 149 OF THE STANDARD SPECIFICATIONS.

- (A) 1.65 lbs. ASPH. CONC. "E"
- (B) 2" ASPH. CONC. "B"
- (C) 6" ASPH. CONC. BASE