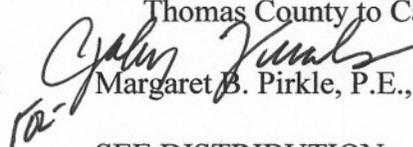


D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No.0001567, Mitchell County **OFFICE** Preconstruction
NHS-0001-00(567)
SR 300/US 19 Median Turn Lanes from
Thomas County to Camilla **DATE** January 25, 2006

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

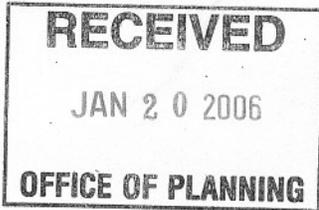
Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Babs Abubakari
Joe Sheffield
BOARD MEMBER



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE NHS-0001-00(567) Mitchell County
SR 300/US 19 Median Turn Lanes from
Thomas County to Camilla
P.I. No. 0001567
M. Abubakari
OFFICE Atlanta, Georgia
DATE January 17, 2006
FROM Mohammed (Babs) Abubakari, P. E., State Consultant Design Engineer
to Meg Pirkle, P. E., Assistant Director of Preconstruction

SUBJECT Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling and approval in accordance with the Plan Development Process

The concept is being revised to change the project termini by deleting the work at the median crossover at MP 0.09 in Mitchell County. The work at the crossover will be included in project NHS-0001-00(570) Thomas County, PI 0001570. The work at the crossover at MP 0.09 overlaps with the work at the median opening at State Route 111 in Thomas County. By including both intersections in the same project, it will eliminate any problems created if the two projects are let at different times or if the projects have different contractors.

A corresponding revised concept report for NHS-0001-00(570) Thomas County will be prepared.

If you have any questions, please contact Joe Wheeler at (404)657-9759.

JDW
MBA:JDW
Attachment

The revised 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: 1/18/06

Joseph Palladi

State Transportation Planning Administrator

cc: Brian Summers
Harvey Keeper
Keith Golden
Joseph Palladi
Jamie Simpson
Joe Sheffield

REVISED PROJECT CONCEPT REPORT

Need and Purpose: Accident history for the years of 1995-1998 shows 16% of the accidents are angle intersecting, 11% are rear end, 26% are struck object and 21% are side swipe. The proposed improvements would decrease these numbers considerably. The offset left turn lanes will improve sight distance to oncoming traffic. The construction of these turn lanes would allow vehicles to move out of the flow of traffic to decelerate, decreasing rear end and side swipe accidents. To improve the safety and orderly progression of traffic through the corridor and help eliminate angle intersecting, rear end and side swipe accidents, these improvements are recommended.

Project location: The project begins at the Thomas County/Mitchell County line and runs north through Mitchell County to approximately 0.19 miles south of the Camilla Limits on SR 3/SR 300/US 19. The project length is approximately 12.80 miles.

Description of the approved concept: At various locations on this corridor the existing median cross over will be reconstructed to provide Type "B" Median Crossovers – Offset left turn lanes for SR 3. The existing Type "A" Median Crossovers – Adjacent Left Turn Lanes will be reconstructed as Type "B" Median Crossovers. Right turn lanes will also be constructed and/or extended to meet speed design deceleration distances at various locations. Right turn lanes will only be constructed if they can be done within the existing right of way. The locations as shown in the approved concept are:

Median X-Over MP 0.09	CR 124/Mill Pond Road
CR 159/Big Creek Road	Median X-Over MP 8.22
Median X-Over MP 1.48	CR 169/Microwave Road
CR 145/Register Road & Sourwood Road	CR 379/Midway Road
Median X-Over MP 2.83	CR 126/Mayhaw Lane
Median X-Over MP 3.40	CR 91/Tanglewood Road
Median X-Over MP 4.16	CR 357/Danie Road
Median X-Over MP 4.47	CR 360/Royal Heights Circle
Median X-Over MP 6.27	CR 306/Old SR 3
Median X-Over MP 6.35	CS 839/Burson Road
Median X-Over MP 6.80	CS 835/Campbell Drive

PDP Classification: Major _____ Minor X

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

Functional Classification: MP 0.76 to MP 9.19 – Rural Principal Arterial
MP 9.19 to End Project – Urban Principal Arterial

U. S. Route Number(s): 19 **State Route Number(s):** 3/300

Traffic (AADT) as shown in the approved concept:

Current Year: 1998 Design Year: None

MP 0.00 to MP 4.95 – 5,500 VPD

MP 4.95 to MP 5.43 – 7,300 VPD

MP 5.43 to MP 12.36 – 7,900 VPD

MP 12.36 to MP 12.80 – 13,300 VPD

Proposed features to be revised: It is proposed to revise the project by changing the project termini to remove the median crossover at MP 0.09 and adding it to project NHS-0001-00(570) Thomas County, PI 0001570. The proximity of the median crossover at MP 0.09 to State Route 111 in Thomas County (approximately 1000 feet) requires some overlap in the tapers between the two intersections. The addition of the crossover at MP 0.09 to project NHS-0001-00(570) will facilitate ease of construction if this project and project NHS-0001-00(570) are let at different times or if the projects are awarded to different contractors.

Please note that a separate revised concept report will be submitted for project NHS-0001-00(570).

Describe the revised feature(s) to be approved: The revised feature to be approved is a change in the project termini. The project will be for the reconstruction of the existing median crossovers on SR 3/SR 300/US 19 to provide Type “B” Median Crossovers. Right turn lanes will also be constructed and/or extended to meet speed design deceleration distances at various locations as long as they can be constructed within the existing right of way. The project limits are from CR 159/Big Creek Road (MP 0.76) to CS 835/Campbell Drive (MP 12.78). Including tapers, the revised project length is approximately 12.32 miles. The specific locations of the crossovers are:

CR 159/Big Creek Road	Median X-Over MP 8.22
Median X-Over MP 1.48	CR 169/Microwave Road
CR 145/Register Road & Sourwood Road	CR 379/Midway Road
Median X-Over MP 2.83	CR 126/Mayhaw Lane
Median X-Over MP 3.40	CR 91/Tanglewood Road
Median X-Over MP 4.16	CR 357/Danie Road
Median X-Over MP 4.47	CR 360/Royal Heights Circle
Median X-Over MP 6.27	CR 306/Old SR 3
Median X-Over MP 6.35	CS 839/Burson Road
Median X-Over MP 6.80	CS 835/Campbell Drive
CR 124/Mill Pond Road	

Updated traffic data (AADT):

Location	Current Year (2012)	Design Year (2032)
Big Creek Road to Register Road/Sourwood Road	4,300	6,650
Register Road/Sourwood Road to Microwave Road	5,100*	7,950*
Microwave Road to Midway Road	5,500	8,450
Midway Road to Tanglewood Road	5,450	8,400
Tanglewood Road to Danie Road	5,600	8,600
Danie Road to Royal Heights Circle	5,675	8,700
Royal Heights Circle to Old SR 3	5,900	9,000
Old SR 3 to Burson Road	6,600	9,950

Burson Road to Campbell Drive	6,250	9,500
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* Includes local build up

Programmed/Schedule:

P.E.: 2002

R/W: None

Construction: 2013 (2007 proposed)

Revised cost estimates:

- | | |
|---|--------------|
| 1. Construction cost including inflation and E&C, | \$11,627,800 |
| 2. Right-of-way, and | \$0 |
| 3. Utilities | \$0 |

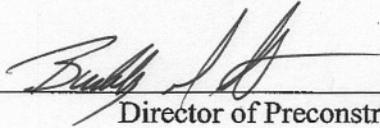
Is the project located in a Non-attainment area? Yes No X

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

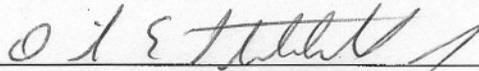
1. Sketch Map
2. Cost Estimate

Concur:

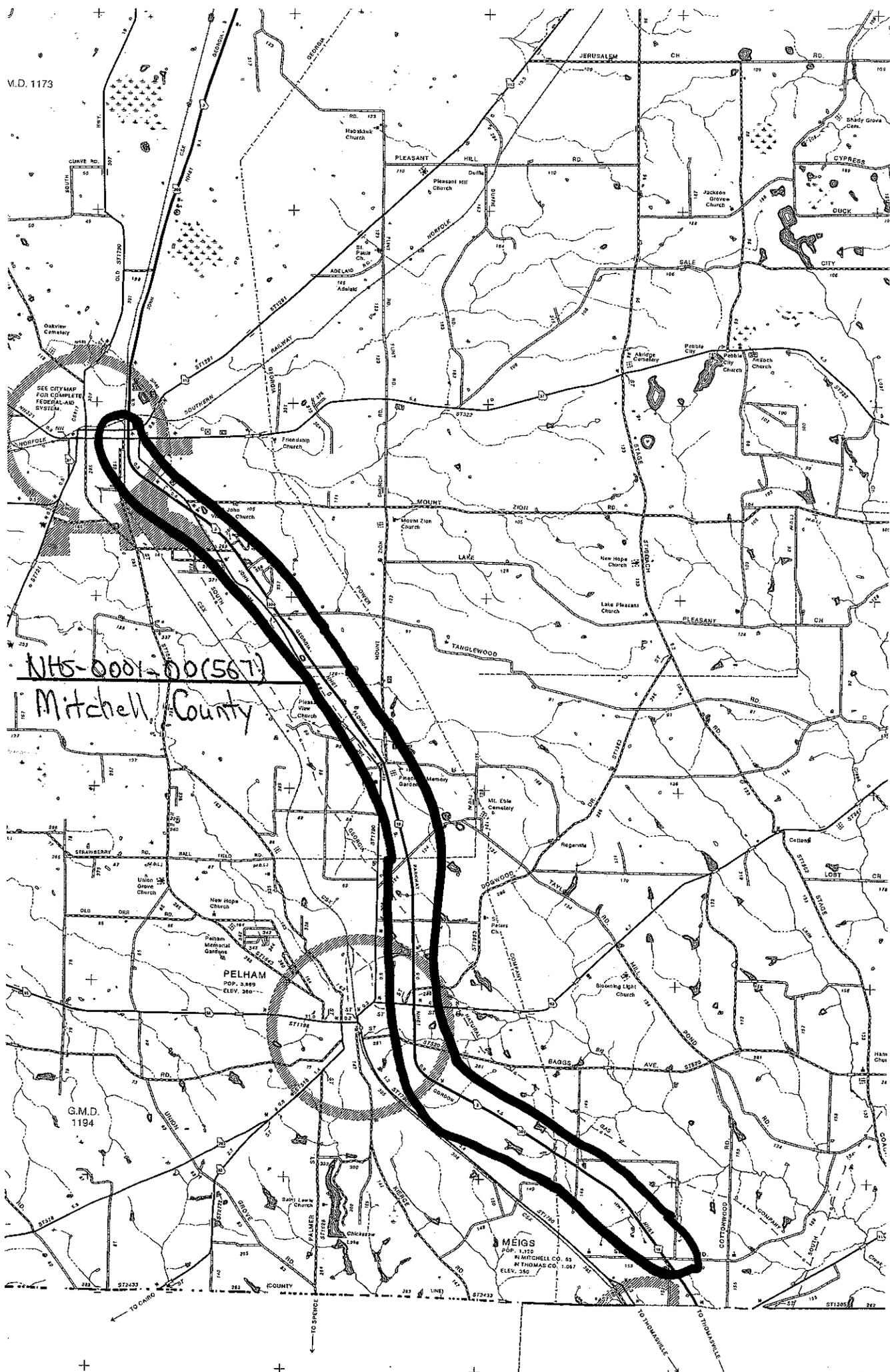


Director of Preconstruction

Approve:



Chief Engineer



NH5-0001-00(567)
 Mitchell County

PELHAM
 POP. 3,889
 ELEV. 380'

MEIGS
 POP. 1,128
 M. MITCHELL CO. 53
 M. THOMAS CO. 1,087
 ELEV. 350'

G.M.D.
 1194

TO CAROLINA

TO SPRING

TO THOMASVILLE

TO THOMASVILLE

PRELIMINARY COST ESTIMATE
OFFICE OF CONSULTANT DESIGN

DATE: 01/17/06

PREPARED BY: Volkert & Assoc.

PROJECT NUMBER: NHS-0001-00(567)

FILE NAME:

P.I. NO: 0001567

MILEAGE:

PROJECT DESCRIPTION/CONCEPT: SR 300/ Intersection Improvements - Mitchell County

EXISTING ROADWAY:

TRAFFIC: CURRENT ADT

PROJECTED ADT

- () PROGRAMMING PROCESS
- () CONCEPT DEVELOPMENT
- (X) DURING PROJECT DEVELOPMENT

PROJECT COSTS

A. RIGHT OF WAY	lump sum		\$0.00
		SUBTOTAL	\$0.00
B. UTILITIES (Reimbursable)	lump sum		\$0.00
		SUBTOTAL	\$0.00
C. CLEARING AND GRUBBING	lump sum		\$0.00
		SUBTOTAL	\$0.00
D. EARTHWORK			
<u>Embankment</u>			
In-Place Embankment	0 cubic yards @ \$9.00		\$0.00
Borrow Incl Haul	0 cubic yards @ \$5.00		\$0.00
Grading Complete	lump sum		\$900,000.00

Excavation

Soil	0 cubic yards @ \$2.60	\$0.00
Rock	0 cubic yards @ \$10.00	\$0.00

Miscellaneous

Wick Drains	0 linear feet @ \$1.00	\$0.00
Filter Fabric	0 square yards @ \$7.00	\$0.00
Channel Excavation	0 cubic yards @ \$6.75	\$0.00
Drill Holes	0 linear feet @ \$2.00	\$0.00

SUBTOTAL \$900,000.00

E. BASE AND PAVING

Aggregate Base

Graded Aggregate 6"	0 square yards @ \$7.50	\$0.00
Graded Aggregate 10"	84,365 square yards @ \$20.00	\$1,687,305.56

Asphalt Paving

12.5mm Superpave	12,105 tons @ \$72.00	\$871,530.00
19mm Superpave	16,139 tons @ \$63.00	\$1,016,785.00
25mm Superpave	48,418 tons @ \$62.00	\$3,001,936.67
Leveling	15,249 tons @ \$75.00	\$1,143,678.94
Tack Coat	19,894 gallons @ \$1.75	\$34,813.72
Milling	184,837 square yards @ \$2.00	\$369,674.00

SUBTOTAL \$8,125,723.88

F. DRAINAGE

Cross Drain System

15" Conc. Pipe	0 linear feet @ \$23.00	\$0.00
18" Conc. Pipe	0 linear feet @ \$28.00	\$0.00
24" Conc. Pipe	0 linear feet @ \$36.41	\$0.00
30" Conc. Pipe	0 linear feet @ \$43.50	\$0.00
36" Conc. Pipe	0 linear feet @ \$53.22	\$0.00
42" Conc. Pipe	0 linear feet @ \$63.10	\$0.00
48" Conc. Pipe	0 linear feet @ \$72.84	\$0.00
15" F.E.S.	0 each @ \$289.01	\$0.00
18" F.E.S.	0 each @ \$374.83	\$0.00
24" F.E.S.	0 each @ \$390.96	\$0.00
30" F.E.S.	0 each @ \$519.30	\$0.00
36" F.E.S.	0 each @ \$628.51	\$0.00
42" F.E.S.	0 each @ \$752.59	\$0.00
48" F.E.S.	0 each @ \$1,300.00	\$0.00

Longitudinal System

15" Conc. Pipe	1025 linear feet @ \$39.00	\$39,964.86
18" Conc. Pipe	2391 linear feet @ \$43.00	\$102,815.58
24" Conc. Pipe	0 linear feet @ \$52.00	\$0.00

Drainage Structures

Catch Basins	0 each @ \$1,520.00	\$0.00
Drop Inlets	35 each @ \$2,000.00	\$70,000.00
Manholes	39 each @ \$2,000.00	\$78,000.00

Drainage Lump Sum

Cost per Mile	0 miles @ \$350,000.00	\$0.00
	SUBTOTAL	\$290,780.44

G. CONCRETE WORK

Approach Slabs	0 square yards \$120.00	\$0.00
Median Barrier - sidewalk	0 lump sum	\$0.00
"V" Gutter	0 linear feet @ \$10.00	\$0.00
Curb and Gutter (Type 7)	0 linear feet @ \$10.00	\$0.00
Valley Gutter	0 square yards \$30.00	\$0.00
Conc. Median Barrier, Met	0 linear feet @ \$23.00	\$0.00
Median Paving	0 square yards \$35.00	\$0.00
	SUBTOTAL	\$0.00

H. TRAFFIC CONTROL

lump sum	\$175,000.00
SUBTOTAL	\$175,000.00

I. EROSION CONTROL

lump sum	\$100,000.00
SUBTOTAL	\$100,000.00

J. GUARDRAIL

lump sum	\$10,000.00
SUBTOTAL	\$10,000.00

K. SIGNS, STRIPING, SIGNALS, LIGHTING

Striping -signals - signs	lump sum		\$75,000.00
Roadside Signs	lump sum		\$25,000.00
Overhead Signs w/ Lights	each @	\$0.00	\$0.00
Traffic Signals	each @	\$40,000.00	\$0.00
Lighting	lump sum		\$0.00
Signal Modification	lump sum		\$0.00
		SUBTOTAL	\$100,000.00

L. GRASSING/LANDSCAPING

	lump sum		\$20,000.00
		SUBTOTAL	\$20,000.00

M. MISCELLANEOUS

	lump sum		\$0.00
		SUBTOTAL	\$0.00

N. MAJOR STRUCTURES

Bridge	square feet @	\$50.00	\$0.00
<u>Box Culverts</u>			
Concrete	cubic yards @	\$320.00	\$0.00
Bar Reinf. Steel	pounds @	\$0.50	\$0.00
		SUBTOTAL	\$0.00

ESTIMATE SUMMARY

A. Right of Way	\$0.00
B. Reimbursable Utilities	\$0.00

CONSTRUCTION COST SUMMARY

C. Clearing and Grubbing	\$0.00
D. Earthwork	\$900,000.00
E. Base and Paving	\$8,125,723.88
F. Drainage	\$290,780.44
G. Concrete Work	\$0.00
H. Traffic Control	\$175,000.00
I. Erosion Control	\$100,000.00
J. Guardrail	\$10,000.00
K. Signs, Striping, Signals, Lighting	\$100,000.00
L. Grassing/Landscaping	\$20,000.00
M. Miscellaneous	\$0.00

SUBTOTAL CONSTRUCTION \$9,721,504.32

N. Major Structures	\$0.00
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SUBTOTAL \$9,721,504.32

1 Years of Inflation at 4 %	\$388,860.17
15 % E & C *	\$1,516,554.67

TOTAL CONSTRUCTION ESTIMATE \$11,626,919.16

*10% ETC plus an additional 5%
for uncertainty of conceptual quantities*