

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
MAY 05 1998
PRECONSTRUCTION

File: STP-1308 (10), Barrow Co.
P.I. No. 142150

Office: Traffic Operations
Atlanta, Georgia
Date: April 30, 1998

MGW
From: M.G. Waters, III, P.E., State Traffic Operations Engineer
To: Laland Owens, Acting District Engineer, Gainesville

Subject: Approved Concept Report

Attached is a copy of the approved concept report and a copy of our files on the above listed project for your use and further handling.

This concept consists of widening and realigning the intersection of SR 81 and Matthews School Rd. in Barrow Co.

By copy of this letter, we are transmitting a copy of the approved concept report to the Office of Environmental/ Location for their use in performing the appropriate environmental studies.

If you have any questions, please contact Ken Estes of our office at 404-635-8127.

MGW:CKE

Attachments

c: Frank Danchetz
Walker Scott, w/attach.
Bob Mustin, w/attach.
Wayne Hutto, w/attach.
Herman Griffin, w/attach.
David Studstill, w/attach.
Todd Long, w/attach.
General File

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

BARROW COUNTY

STP-1308 (10).

FEDERAL ROUTE NO:
STATE ROUTE NO: 81
GADOT P.I. NO: 142150

**SEE ATTACHED
LOCATION SKETCH**

DATE OF REPORT: AUGUST 27, 1997

RECOMMENDED: 12-9-97
DATE

Marion H. Latham
STATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED: 12-24-97
DATE

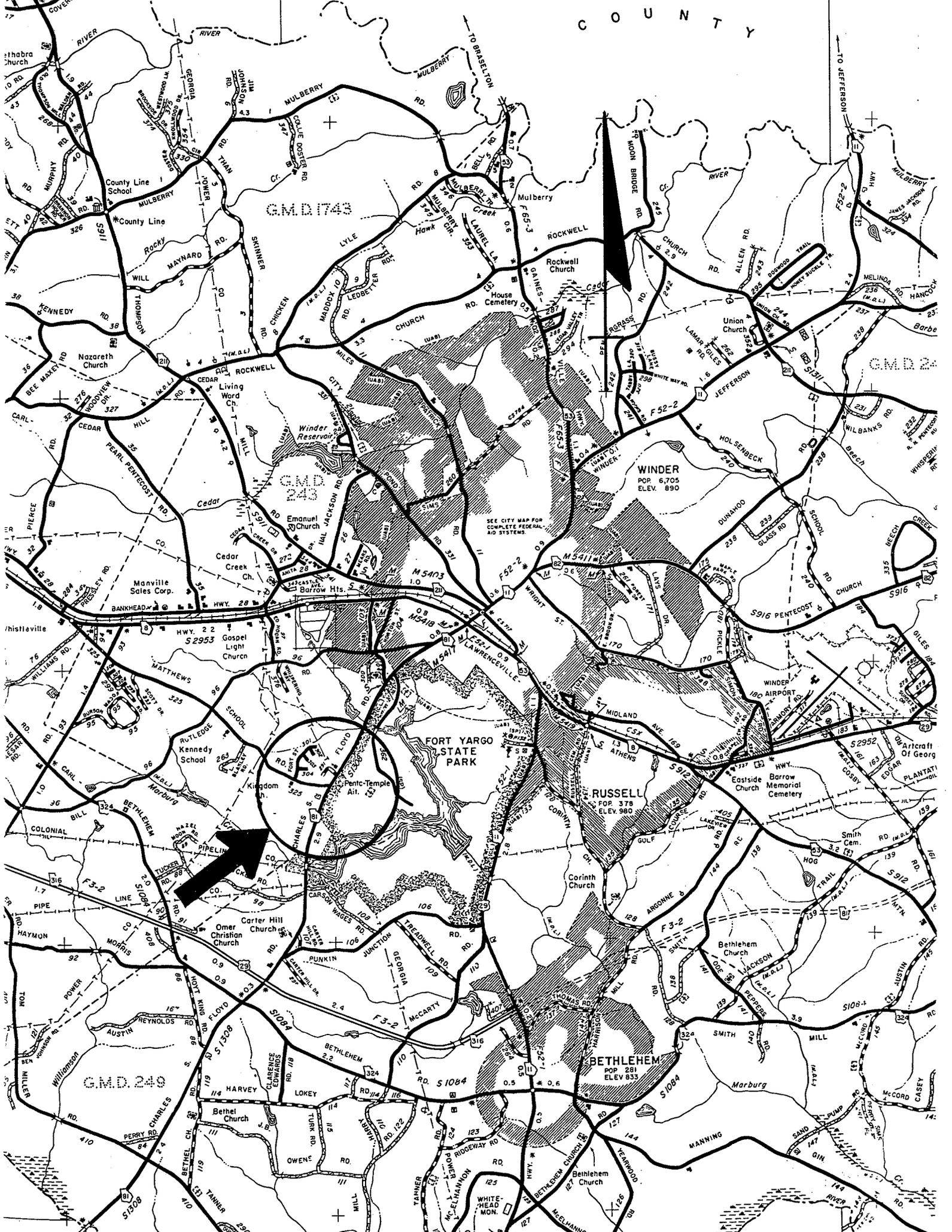
Hugh S. Tynes
DISTRICT ENGINEER

RECOMMENDED: 1-9-98
DATE

W. L. Douglas
CHIEF ENGINEER

APPROVED: 1-9-98
DATE

Wayne Shackelford
COMMISSIONER



GMD 1749

GMD 248

GMD 249

WINDER
POP. 6,705
ELEV. 890

FORT YARGO
STATE PARK

RUSSELL
POP. 378
ELEV. 980

BETHEHEM
POP. 281
ELEV. 833



SEE CITY MAP FOR COMPLETE FEDERAL AID SYSTEMS

PROJECT CONCEPT REPORT

P.I. NO.:

PROJECT NO.: BARROW COUNTY

ROUTE NO.: SR 81/CHARLES FLOYD ROAD
CR 325/MATTHEWS SCHOOL ROAD

DESCRIPTION: SR 81 @ CR 325 - INTERSECTION IMPROVEMENTS

LOCATION: THIS INTERSECTION IS LOCATED 1.45 km (0.9 miles) SOUTHWEST OF THE CITY LIMITS OF WINDER IN BARROW COUNTY.

TRAFFIC - CURRENT ADT: SR 81 ----- 7,700 (1994 ADT)
CR 325 ----- 700 (1994 ADT)

EXISTING TYPICAL SECTION:

SR 81: 2-3.3 m (11') TRAVEL LANES (ONE IN EACH DIRECTION) WITH 0.61 m (2') PAVED & 1.83 m (6') GRASS SHOULDERS.

CR 325: 2-3.3 m (11') TRAVEL LANES (ONE IN EACH DIRECTION) WITH 1.5 m (5') GRASS SHOULDERS.

EXISTING RIGHT-OF-WAY: SR 81 ----- 31 m (100') (ESTIMATED)
CR 325 ----- 31 m (100') (ESTIMATED)

EXISTING TRAFFIC CONTROL: SR 81 IS A THROUGH MOVEMENT WITH CR 325 CONTROLLED BY STOP AHEAD SIGNS AND A STOP SIGN.

EXISTING MAJOR STRUCTURES: NONE.

STATEMENT OF NEED & PURPOSE: TO IMPROVE THE SAFETY AND ORDERLY PROGRESSION OF TRAFFIC THROUGH THE "T" INTERSECTION OF SR 81 @ CR 325/MATTHEW SCHOOL ROAD, THIS OFFICE RECOMMENDS THE CONSTRUCTION OF A LEFT TURN LANE ON THE NORTHBOUND APPROACH, A RIGHT TURN LANE ON THE SOUTHBOUND APPROACH AND THE INSTALLATION OF A TRAFFIC SIGNAL ON SR 81.

IT IS RECOMMENDED THAT CR 325/MATTHEW SCHOOL ROAD BE WIDENED TO PROVIDE 3-3.6 m (12') LANES (1 TRAVEL LANE WESTBOUND, 1 LEFT TURN LANE EASTBOUND TO NORTHBOUND & 1 RIGHT TURN LANE EASTBOUND TO SOUTHBOUND). REALIGNMENT OF THE CENTERLINE +/- 24 m (80') TO THE SOUTH WILL PROVIDE IMPROVED SIGHT DISTANCE AND ELIMINATE THE SKEWED APPROACH TO THE INTERSECTION.

MURRAY O. KENNEDY ELEMENTARY SCHOOL IS LOCATED ONE MILE WEST OF SR 81 ON MATTHEW SCHOOL ROAD. THERE ARE 19 A.M. SCHOOL BUSES AND 15 P.M. SCHOOL BUSES UTILIZING THIS INTERSECTION. WITH THE COMPLETION OF THE MIDDLE SCHOOL SLATED FOR 1997, THESE NUMBERS WILL POSSIBLY DOUBLE WITH AN INCREASE OF PRIVATELY OWNED VEHICLES ALSO.

LENGTH: 0.73 km (0.45 miles)

TERMINI:	- SR 81 -	- CR 325 -
FROM M.P. :	4.33	2.75
TO M.P. :	4.64	2.61

PDP CLASS: MINOR EXISTING

FUNCTIONAL CLASS: SR 81 -----URBAN FAU MINOR ARTERIAL
CR 325 -----URBAN NFA LOCAL ROADS

MAX DEGREE OF CURVE: R= 1750 m (1 DEGREE) **MAX GRADE:** +/- 5.0 %

DESIGN SPEED: SR 81: 90 km/h (55 mph)
CR 325: 80 km/h (50 mph)

PROPOSED TYPICAL SECTION:

SR 81: 2-3.6 m (12') TRAVEL LANES (ONE IN EACH DIRECTION) WITH 3.6 m (12') LEFT TURN LANE (NORTHBOUND) & 3.6 m (12') RIGHT TURN LANE (SOUTHBOUND), WITH 3.0 m (10') SHOULDERS, 0.6 m (2') PAVED – 2.4 m (8') GRASSED.

CR 325: 2-3.6 m (12') TRAVEL LANES (ONE IN EACH DIRECTION) WITH 3.6 m (12') LEFT TURN LANE AND 2.4 m (8') GRASSED SHOULDERS.

PROPOSED MAJOR STRUCTURES: NONE.

TYPE ACCESS: BY PERMIT.

TRAFFIC CONTROL DURING CONSTRUCTION: EXISTING OPERATION SHALL BE MAINTAINED DURING CONSTRUCTION.

RIGHT-OF-WAY REQUIREMENT: BARROW COUNTY SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED RIGHT-OF-WAY FOR THIS PROJECT.

UTILITIES: BARROW COUNTY SHALL BE RESPONSIBLE FOR ALL UTILITY ADJUSTMENTS.

ESTIMATED COST:

<u>ITEM</u>	<u>TOTAL AMOUNT</u>
R/W	\$ 1,000 (BY COUNTY LGPA)
UTILITIES	35,000 (BY COUNTY LGPA)
LGPA TOTAL	\$ 36,000
CONSTRUCTION	\$ 160,968
TRAFFIC SIGNAL	50,000
E&C	21,097
TOTAL CONSTRUCTION	\$ 232,065

PERMITS REQUIRED: TRAFFIC SIGNAL PERMIT.

LEVEL OF ENVIRONMENTAL ANALYSIS: CATEGORICAL EXCLUSION.

LEVEL OF PUBLIC INVOLVEMENT: NONE.

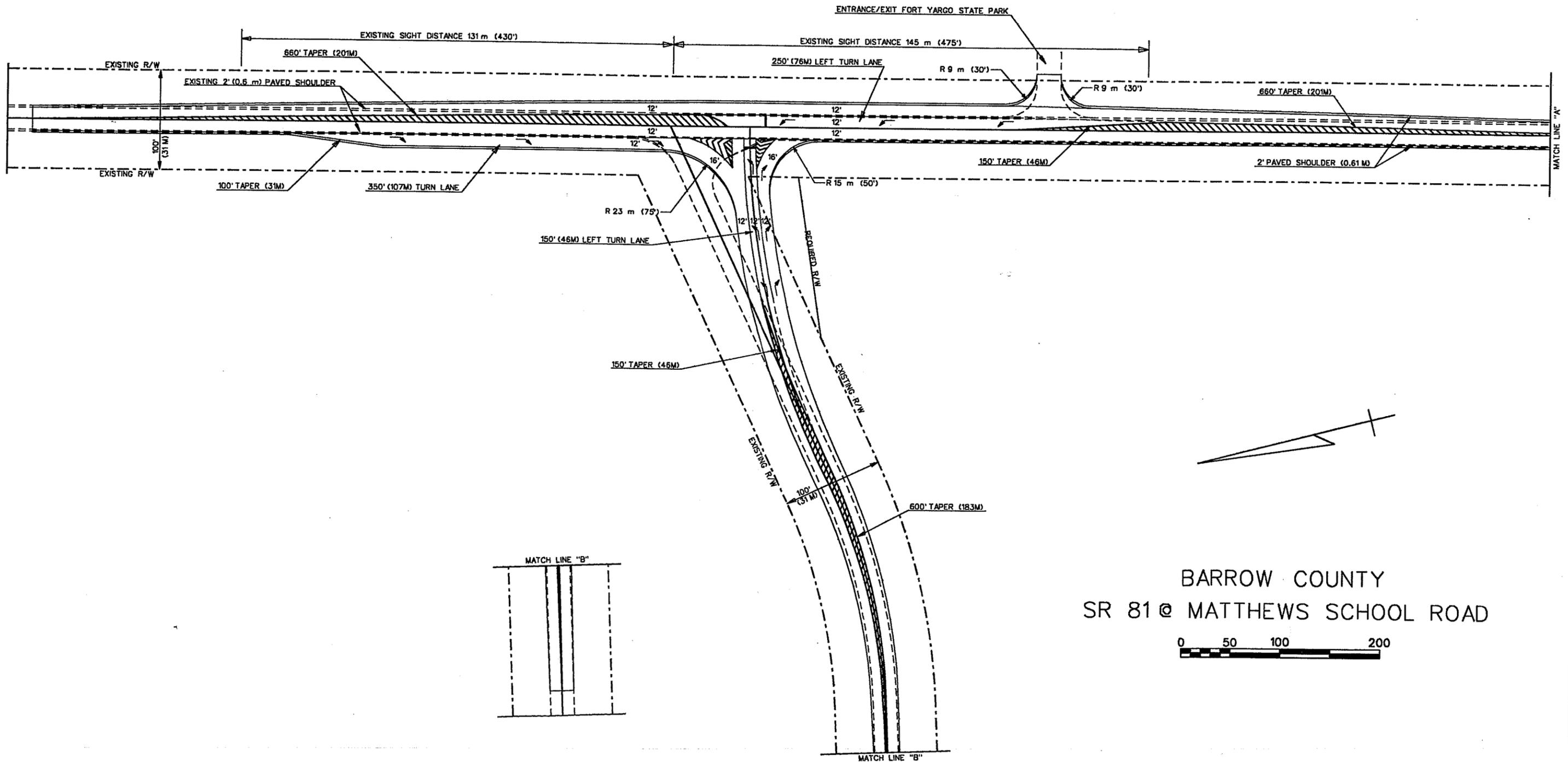
TIME SAVING PROCEDURES APPROPRIATE: YES (X) NO ()

DESIGN VARIANCES REQUIRED: NONE.

ALTERNATIVES CONSIDERED: NONE.

PREPARED BY:

KEN WERHO



BARROW COUNTY
 SR 81 @ MATTHEWS SCHOOL ROAD

