ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0009711
Quick Response Project
Fulton County
Right turn lane reconfiguration on SR 400 northbound exit ramp at Windward Parkway, District 7

OFFICE Design Policy & Support

DATE April 7, 2010

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED CONCEPT REPORT**

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Adminstrator
Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Keith Golden, State Traffic Operations Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Jeff Baker, State Utilities Engineer
Jonathan Walker, District Utilities Engineer
Mike Lobdell, District Preconstruction Engineer/Project Manager
Bryant Poole, District Engineer
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

FULTON COUNTY

FEDERAL ROUTE NO: US 19
STATE ROUTE NO: SR 400
GADOT P.I. NO: 0009711

*** **QUICK RESPONSE PROJECT** ***

SEE ATTACHED
LOCATION SKETCH

Date of Report: December 17, 2009

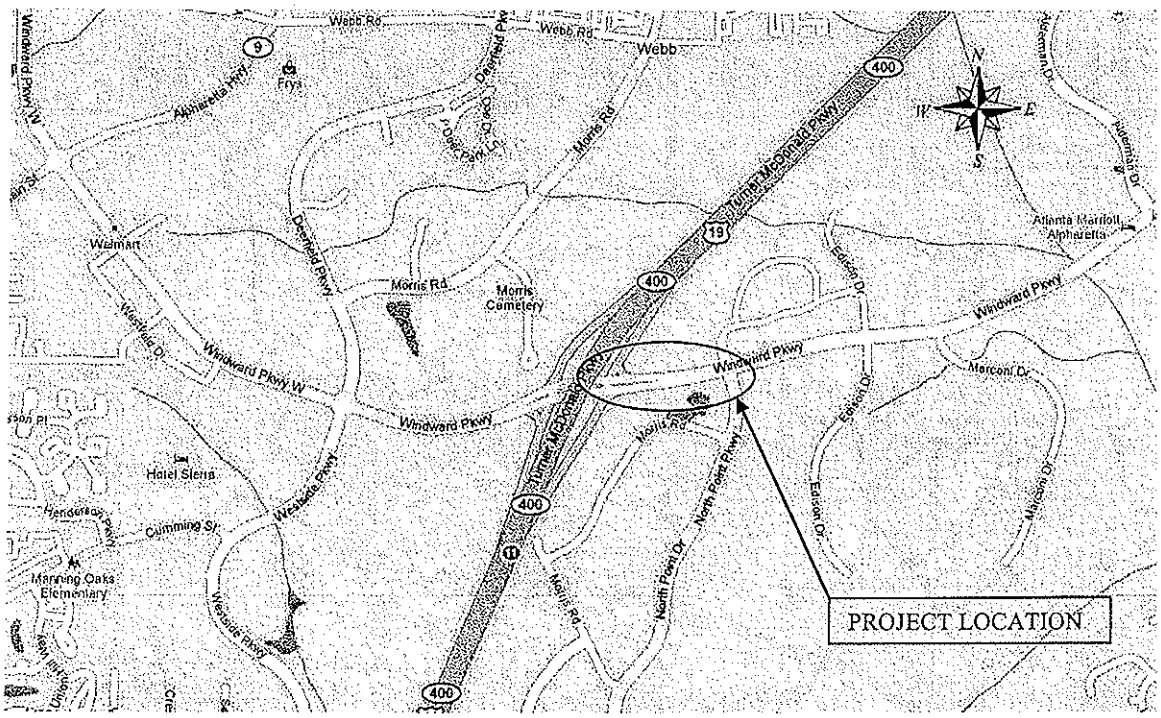
RECOMMENDED: 3/12/10 DATE DISTRICT PRECONSTRUCTION ENGINEER

RECOMMENDED: 4-2-10 DATE TRAFFIC OPERATIONS ENGINEER

RECOMMENDED: 3/15/10 DATE DISTRICT ENGINEER

APPROVED: 4/3/2010 DATE CHIEF ENGINEER

SR-400 AT WINDWARD PARKWAY
FROM SR 400 NORTHBOUND EXIT RAMP TO NORTH POINT PARKWAY



LOCATION SKETCH

PROJECT CONCEPT REPORT

P.I. NO.: 0009711

Route No.:
US-19/SR-400

Location:
The project is located in the City of Alpharetta, Fulton County at the interchange of SR-400 at Windward Parkway (Exit 11).

Description:
The proposed project consists of the reconfiguration of the right turn lanes on the SR 400 northbound exit ramp at Windward Parkway and the addition of a continuous right turn lane in the eastbound direction from the SR 400 Northbound exit ramp to North Point Parkway along Windward Parkway. The proposed reconfiguration of the right turn lanes would relocate the inside right turn lane parallel to the existing left turn lanes at the ramp intersection, and relocate the outside right turn lane to provide a continuous right turn lane eastbound to North Point Parkway. The typical section along the ramp would maintain the existing two 12-foot left turn lanes and two 12-foot right turn lanes, rural shoulders, and an open channel drainage system. The typical section along Windward Parkway eastbound would consist of three 12-foot travel lanes (two eastbound lanes, one right turn lane), a 4-foot bike lane, urban shoulders with curb and gutter, 5-foot sidewalks, and a closed drainage system. Additional improvements include signal modifications, relocation or replacement of mast arm signal poles, and relocation or replacement of lighting fixtures. Total project length is approximately 1,500 feet. The proposed project would be constructed within the existing right-of-way.

This project satisfies the *Need and Purpose* by improving safety and operational efficiency through additional storage capacity on the ramps and increased efficiency of the signalized ramp terminal intersections.

Traffic – Current ADT:

Year	2009	2035
NB Exit Ramp:	14,400	17,500
Windward Parkway:	38,450	46,700

Existing Right of Way:
Varies. Improvements will occur within the existing Right-of-Way.

Existing Traffic Control:
Traffic Signals at the intersection of SR 400 Northbound Exit ramp and Windward Parkway and at the intersection of Windward Parkway and North Point Parkway

Existing Major Structures:
Bridge carrying SR-400 over Windward Parkway.

Statement of Need & Purpose
Currently, the SR 400 NB exit ramp at Windward Parkway backs onto the freeway in the AM peak hour causing the formation of a queue in the right lane of SR 400, often past the Webb

Bridge Road overpass (greater than 0.5 mile). This queuing occurs for up to 45 minutes in the AM period. The primary reason for the queuing on this exit ramp is the eastbound queuing on Windward Parkway from the North Point Parkway intersection to the SR 400 interchange. The queuing on Windward Parkway eastbound prevents vehicles from the NB exit ramp from turning right onto Windward Parkway. Since the right turning volume on the NB exit ramp onto Windward Parkway is so high, this traffic is unable to clear the ramp and queuing results. The queuing on Windward Parkway from the North Point Parkway intersection is due to lack of eastbound capacity at this intersection. There is currently only a left turn lane, a through lane and a shared through/right lane at this intersection.

The existing Level-of-Service (LOS) for both the NB exit ramp and Windward Parkway at North Point Parkway intersections experience LOS F conditions in the AM peak hour. Additionally, AM queuing at the SR 400 NB exit ramp to Windward Parkway exceeds the available storage (ramp length of approximately 1,900 feet) and backs traffic onto the freeway.

The purpose of the proposed project is to improve operations and reduce queuing at the SR 400 northbound exit ramp at Windward Parkway during the AM peak hour. The project consists of adding a free flow right turn lane from the SR 400 NB exit ramp onto Windward Parkway that would continue as a dedicated right turn lane that drops at the intersection of Windward Parkway and North Point Parkway. These improvements would significantly reduce queuing on Windward Parkway and the SR 400 NB exit ramp and allow both the SR 400/Windward Parkway and Windward Parkway/North Point Parkway intersections to operate at an acceptable LOS with reduced delay over existing conditions.

Bicycle & Pedestrian Considerations:
New pedestrian crosswalks and wheelchair ramps will be placed in raised islands separating the two right turn lanes at the NB ramp terminal. The existing bicycle lane on Windward Parkway will be maintained.

Length:
150-ft on the NB Ramp
1280-ft on Windward Parkway

Termini:
NB Exit Ramp: NB Exit Gore with SR-400 to Windward Parkway
Windward Parkway: SR 400 Exit Ramp to North Point Parkway

PDP Class:
Minor

Functional Class:
SR -400 – Urban Freeway
Windward Parkway – Urban Collector Street

Design Speed:
45 mph – Exit Ramp
45 mph – Windward Parkway (posted speed 35 mph)

Proposed Typical Section:
The proposed auxiliary lanes shall match existing grade. See attached Typical Sections.

Proposed Major Structures:
None

Type Access:
Limited Access

Traffic Control During Construction:
Improvements to be constructed under traffic with minor impacts to existing traffic flow patterns.

Right-of-Way Requirements:
Improvements will be constructed within the existing Right-of-Way.

Utilities:
Georgia Power, GDOT Traffic Operations, City of Alpharetta Traffic Operations, TW Telecommunications, AT&T, Atlanta Gas Light, Sawnee EMC, North Fulton Water and Sewer, Comcast

Estimated Cost:

Item	Total Amount
	STATE
R/W----------	$ 0
Utilities ----------	$ 0
Estimate LGPA Total----------	$ 0
Construction ----------	$ 494,773.36
E & C 10% ----------	$ 49,477.34
Total Construction ----------	$ 544,250.70

Permits Required:
Traffic Signal Modification Permit

Level of Environmental Analysis:
Programmatic Categorical Exclusion (PCE)

Level of Public Involvement:
None

Time Saving Procedures Appropriate: Yes(X) No ( )

Design Variances Required:
None

Alternates Considered:
No Build

Comments:

Attachments:

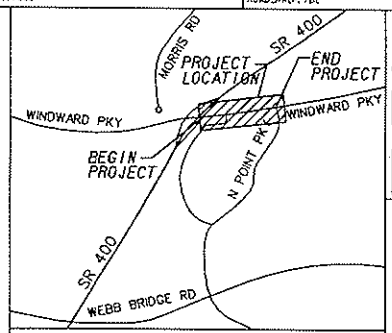
1. Design sketch – NB Exit Ramp
2. Typical section
3. Cost Estimate

DATE	CODTRead	p:\02\02472\006\DGN\2472006CV01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
cnod.read	ROAD_HALF.TBL	GRWCCV	GA		1	59

NORTH FULTON COMMUNITY IMPROVEMENT DISTRICT

PLAN AND PROFILE OF PROPOSED

S.R. 400 AT WINDWARD PARKWAY FROM NORTHBOUND EXIT RAMP TO NORTHPOINT PARKWAY



LOCATION SKETCH

DESIGN DATA:
TRAFFIC A.D.T.: 60810 (2011)
TRAFFIC A.D.T.: 82350 (2031)
TRAFFIC D.H.V.: 9275 (2031)
DIRECTIONAL DIST: 50/50
% TRUCKS: 2%
24 HR. TRUCKS %: 4%
SPEED DESIGN: 45 MPH

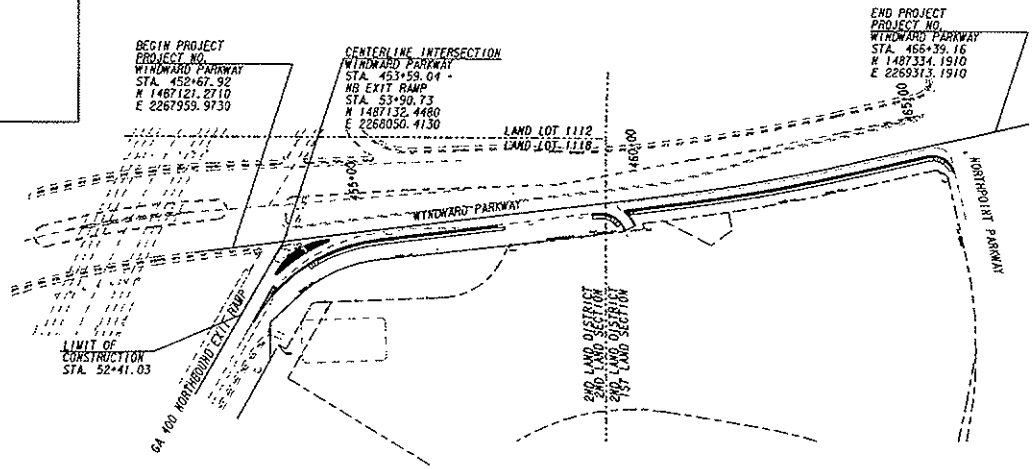
FUNCTIONAL CLASS:
URBAN COLLECTOR

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 6.

DESIGNED IN ENGLISH UNITS.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

MID-POINT COORDINATES
STA 459+53.54
N 1487205.3660
E 2268640.4200



NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", "STATE HIGHWAY DEPARTMENT ", GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

PREPARED BY: _____

RECOMMENDED FOR APPROVAL BY: _____

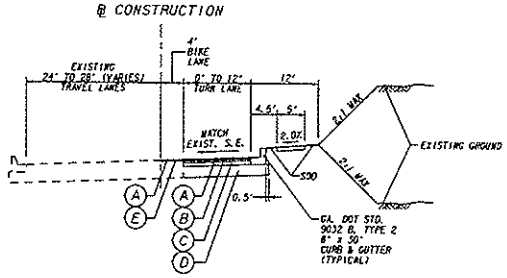
LENGTH OF PROJECT	COUNTY No. 121
COUNTY: FULTON	MILES
NET LENGTH OF ROADWAY	0.2597
NET LENGTH OF BRIDGES	0.0000
NET LENGTH OF PROJECT	0.2597
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF PROJECT	0.2597

SCALE IN FEET
0 100 200 400

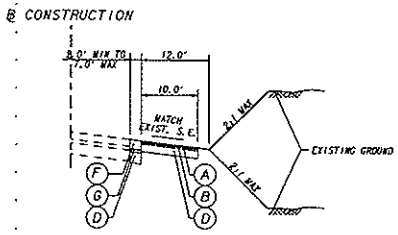
PLANS COMPLETED	- -
REVISIONS	

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

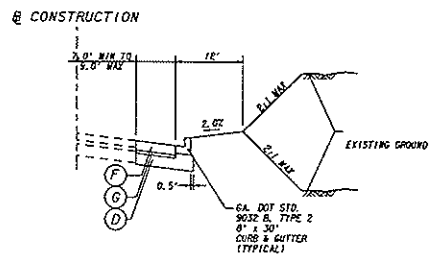
DATE	TIME			STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
chad.read	GDOTRoad RGAD_HALF.TDL	p:\02\02472\005\dgn\24T20061y01.dgn		GA		5	99



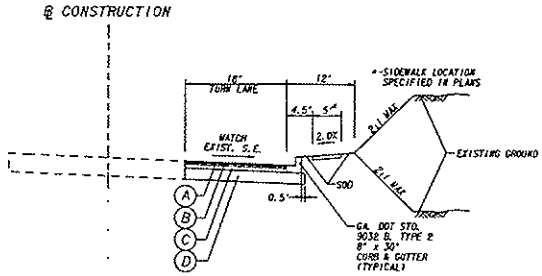
TYPICAL SECTION NO. 1
SUPERELEVATION
WINDWARD PARKWAY
STA. 452+67.92 TO STA. 466+39.16



TYPICAL SECTION NO. 2
SUPERELEVATION
GA 400 NORTHBOUND EXIT RAMP
STA. 52+41.03 TO STA. 52+95.90



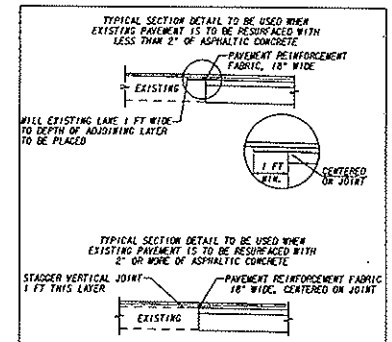
TYPICAL SECTION NO. 3
SUPERELEVATION
GA 400 NORTHBOUND EXIT RAMP
STA. 52+95.90 TO STA. 53+14.72



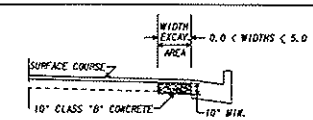
TYPICAL SECTION NO. 4
SUPERELEVATION
GA 400 NORTHBOUND EXIT RAMP
RIGHT FREE FLOW TURN LANE

PAVEMENT DESIGN

- (A) 165 LBS/SY ASPHALTIC CONCRETE. 12.5 mm SUPERPAVE - POLYMER MODIFIED
- (B) 440 LBS/SY ASPHALTIC CONCRETE. 19 mm SUPERPAVE
- (C) 660 LBS/SY ASPHALTIC CONCRETE BASE. 25 mm SUPERPAVE
- (D) 12" GRADED AGGREGATE BASE
- (E) 1-1/2" MILLING ASPHALTIC CONCRETE PAVEMENT
- (F) 11" PLAIN PCC PAVEMENT
- (G) 330 LBS/SY ASPHALTIC CONCRETE. 19 mm SUPERPAVE



PAVEMENT FABRIC DETAIL



NO SCALE

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

NORTH FULTON COMMUNITY IMPROVEMENT DISTRICT

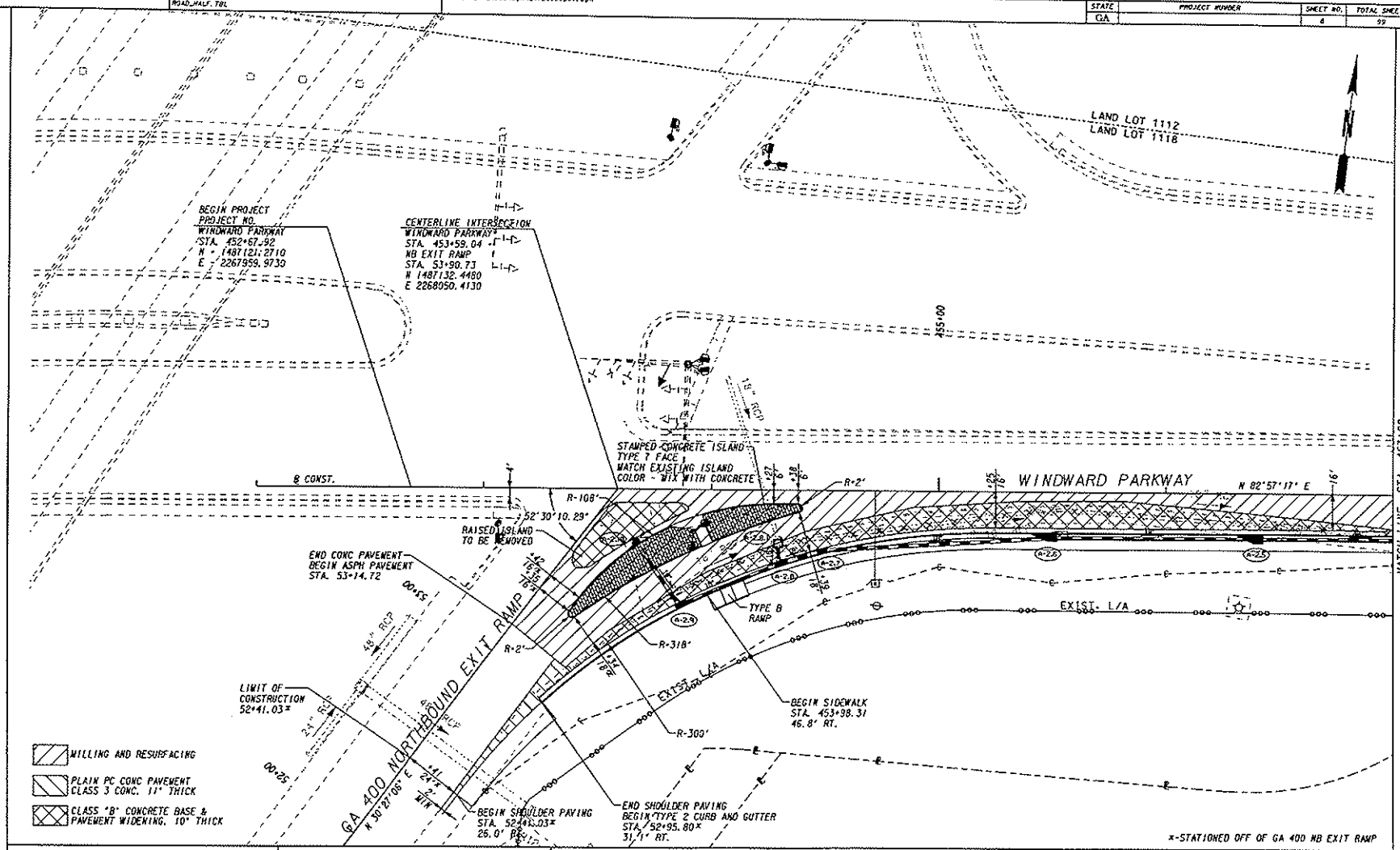
OFFICE:

TYPICAL SECTIONS

S.R. 400 AT WINDWARD PARKWAY

DRAWING No. 5-01

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		6	99



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

NOT RELEASED
FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

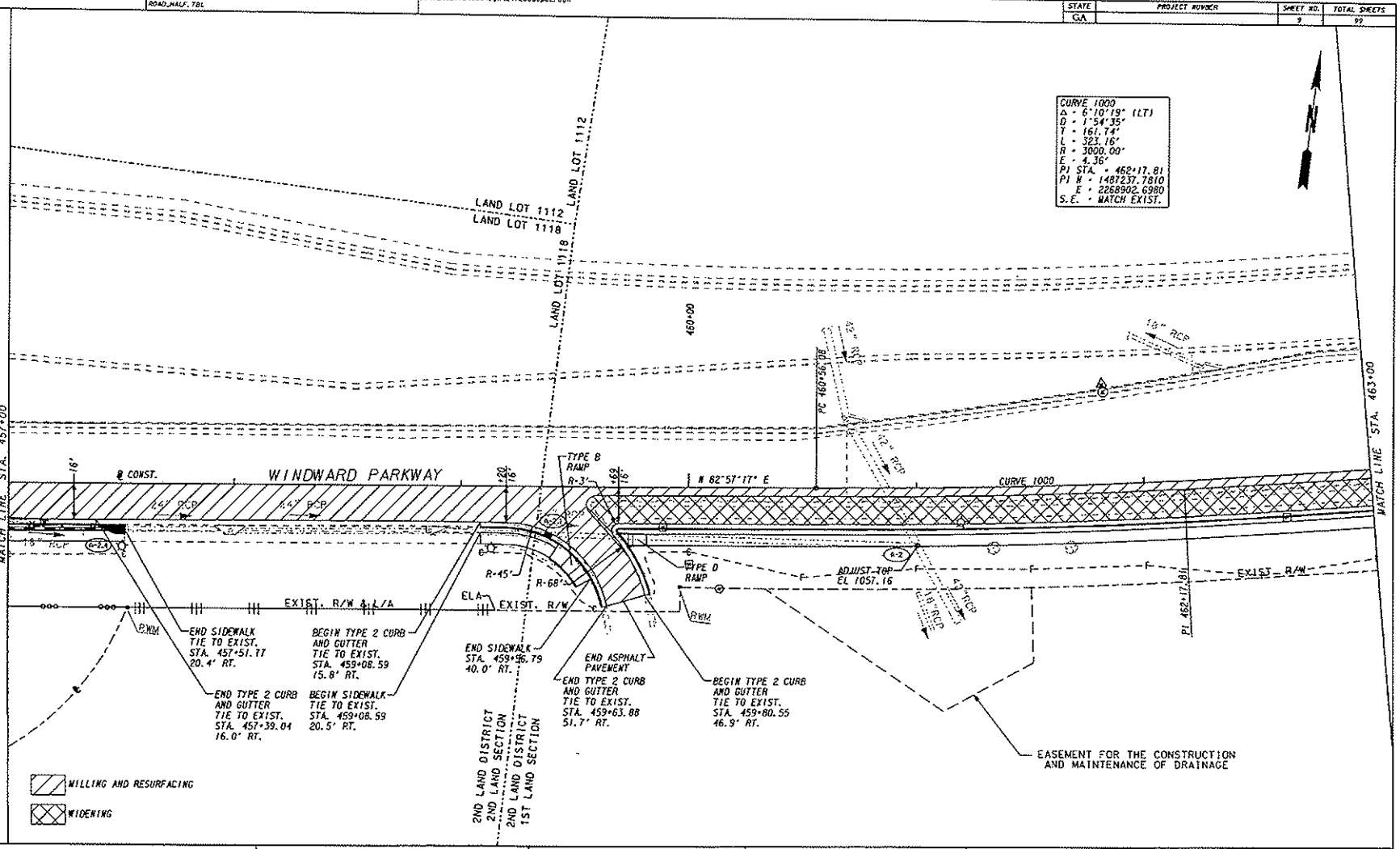
NORTH FULTON
COMMUNITY IMPROVEMENT DISTRICT
OFFICE:

MAINLINE PLAN

S.R. 400 AT
WINDWARD PARKWAY

DRAWING No.
13-01

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		9	99



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

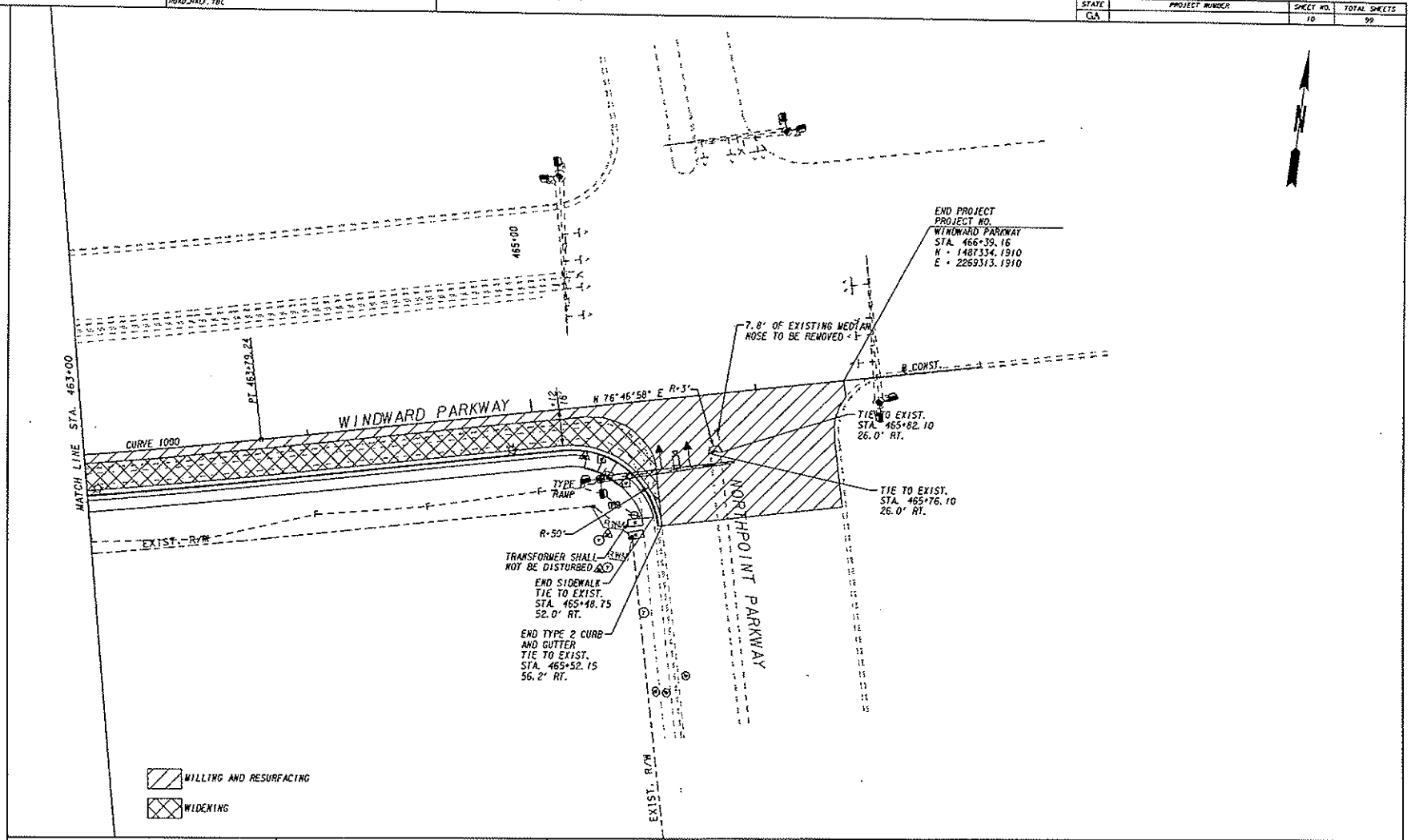
REVISION DATES

NORTH FULTON COMMUNITY IMPROVEMENT DISTRICT
OFFICE:
MAINLINE PLAN
S.R. 400 AT WINDWARD PARKWAY

DRAWING No. 13-02

DATE###	TIME###	GDOTRoad	p:\02\02472\006\dgn\2472006cp03.dgn
chad.reed		ROAD_HALF.TBL	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		10	99



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

NORTH FULTON COMMUNITY IMPROVEMENT DISTRICT

OFFICE:

MAINLINE PLAN

S.R. 400 AT WINDWARD PARKWAY

DRAWING No. 13-03

NORTH FULTON COUNTY COMMUNITY IMPROVEMENT DISTRICT
SR 400 NORTHBOUND EXIST RAMP AT WINDWARD PARKWAY

ROADWAY						
ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
150-1000	TRAFFIC CONTROL -	1	LS	$60,000.00	$ 60,000.00	
207-0203	FOUND BKFILL MATL, TP II	20	CY	$41.00	$ 820.00	
210-0100	GRADING COMPLETE -	1	LS	$130,000.00	$ 130,000.00	
310-1101	GR AGGR BASE CRS, INCL MATL	1100	TN	$20.00	$ 22,000.00	
402-1802	RECYCLED ASPH CONC PATCHING, INCL BITUM MATL & H LIME	10	TN	$93.00	$ 930.00	
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	10	TN	$65.00	$ 650.00	
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	430	TN	$62.00	$ 26,660.00	
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	295	TN	$67.00	$ 19,765.00	
402-4510	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	270	TN	$68.00	$ 18,360.00	
413-1000	BITUM TACK COAT	200	GL	$1.75	$ 350.00	
432-0206	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	1900	SY	$4.25	$ 8,075.00	
439-0024	PLAIN PC CONC PVMT, CLASS 3, 11 INCH THICK	40	SY	$62.00	$ 2,480.00	
441-0104	CONC SIDEWALK, 4 IN	580	SY	$35.00	$ 20,300.00	
441-0748	CONCRETE MEDIAN, 6 IN	140	SY	$35.00	$ 4,900.00	
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	1200	LF	$12.00	$ 14,400.00	
446-1100	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	1200	LF	$4.50	$ 5,400.00	
500-0100	GROOVED CONCRETE	40	SY	$6.00	$ 240.00	
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	18	CY	$150.00	$ 2,700.00	
620-0100	TEMPORARY BARRIER, METHOD NO. 1	100	LF	$45.00	$ 4,500.00	
				TOTAL	$ 342,530.00	

DRAINAGE						
ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	415	LF	$48.00	$ 19,920.00	
611-3000	RECONSTR CATCH BASIN, GP 1	1	EA	$2,025.00	$ 2,025.00	
611-8050	ADJUST MANHOLE TO GRADE	1	EA	$875.00	$ 875.00	
668-1100	CATCH BASIN, GP 1	2	EA	$2,000.00	$ 4,000.00	
668-1110	CATCH BASIN, GP 1, ADDL DEPTH	1	LF	$175.00	$ 175.00	
668-2100	DROP INLET, GP 1	5	EA	$1,900.00	$ 9,500.00	
668-2110	DROP INLET, GP 1, ADDL DEPTH	2	EA	$175.00	$ 350.00	
668-5000	JUNCTION BOX	1	EA	$1,700.00	$ 1,700.00	
				TOTAL	$ 38,545.00	

PERMANENT EROSION CONTROL						
ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
700-6910	PERMANENT GRASSING	1	AC	$625.00	$ 625.00	
700-7000	AGRICULTURAL LIME	1	TN	$90.00	$ 90.00	
700-7010	LIQUID LIME	3	GL	$25.50	$ 76.50	
700-8000	FERTILIZER MIXED GRADE	1	TN	$365.00	$ 365.00	
700-8100	FERTILIZER NITROGEN CONTENT	50	LB	$150.00	$ 7,500.00	
700-9300	SOD	700	SY	$4.50	$ 3,150.00	
716-2000	EROSION CONTROL MATS, SLOPES	200	SY	$1.00	$ 200.00	
				TOTAL	$ 12,006.50	

NORTH FULTON COUNTY COMMUNITY IMPROVEMENT DISTRICT
SR 400 NORTHBOUND EXIST RAMP AT WINDWARD PARKWAY

ROADWAY

TEMPORARY EROSION

ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
163-0232	TEMPORARY GRASSING	1	AC	$360.00	$ 360.00	
163-0240	MULCH	3	TN	$230.00	$ 690.00	
163-0300	CONSTRUCTION EXIT	1	EA	$1,000.00	$ 1,000.00	
163-0522	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - TYPE A SILT FENCE	10	EA	$350.00	$ 3,500.00	
163-0530	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	200	LF	$1.00	$ 200.00	
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	12	EA	$100.00	$ 1,200.00	
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	310	LF	$0.50	$ 155.00	
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	320	LF	$0.80	$ 256.00	
165-0040	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH	10	EA	$1.00	$ 10.00	
165-0070	MAINTENANCE OF BALED STRAW EROSION CHECK	100	LF	$1.00	$ 100.00	
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	2	EA	$350.00	$ 700.00	
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	12	EA	$40.00	$ 480.00	
167-1000	WATER QUALITY MONITORING AND SAMPLING	1	EA	$125.00	$ 125.00	
167-1500	WATER QUALITY INSPECTIONS	6	MO	$400.00	$ 2,400.00	
171-0010	TEMPORARY SILT FENCE, TYPE A	620	LF	$1.25	$ 775.00	
171-0030	TEMPORARY SILT FENCE, TYPE C	640	LF	$2.25	$ 1,440.00	
			TOTAL		$ 13,391.00	

TEMPORARY DRAINAGE

ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
			TOTAL			

SIGNING AND MARKING ITEMS

ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
610-6515	REM HIGHWAY SIGN, STD	6	EA	$ 70.00	$ 420.00	
611-5360	RESET HIGHWAY SIGN	2	EA	$ 125.00	$ 250.00	
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 9	80	SF	$ 18.99	$ 1,519.20	
636-2070	GALV STEEL POSTS, TP 7	150	LF	$ 8.19	$ 1,228.50	
652-0094	PAVEMENT MARKING, SYMBOL, TP 4	1	EA	$ 40.51	$ 40.51	
652-0110	PAVEMENT MARKING, ARROW, TP 1	1	EA	$ 39.39	$ 39.39	
652-5301	SOLID TRAFFIC STRIPE, 6 IN, WHITE	840	LF	$ 0.13	$ 109.20	
652-5451	SOLID TRAFFIC STRIPE, 5 IN, WHITE	840	LF	$ 0.20	$ 168.00	
652-6301	SKIP TRAF STRIPE, 6 IN, WHITE	330	GLF	$ 0.11	$ 36.30	
652-6501	SKIP TRAF STRIPE, 5 IN, WHITE	330	GLF	$ 0.12	$ 39.60	
653-0110	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	1	EA	$ 75.00	$ 75.00	
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	9	EA	$ 69.74	$ 627.66	
653-0210	THERMOPLASTIC PVMT MARKING, WORD, TP 1	3	EA	$ 105.03	$ 315.09	
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	1360	LF	$ 0.42	$ 571.20	
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	70	LF	$ 0.44	$ 30.80	
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	82	LF	$ 3.48	$ 285.36	
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	1435	LF	$ 1.58	$ 2,267.30	
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	70	GLF	$ 0.29	$ 20.30	
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	125	SY	$ 2.61	$ 326.25	
654-1002	RAISED PVMT MARKERS TP 2	10	EA	$ 3.00	$ 30.00	
654-1003	RAISED PVMT MARKERS TP 3	10	EA	$ 5.00	$ 50.00	
657-1054	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB	183	LF	$ 4.50	$ 823.50	
657-5001	PREFORMED PLASTIC PVMT MARKING, WHITE, TP PB	13	SY	$ 16.00	$ 208.00	
657-5005	PREFORMED PLASTIC PVMT MKG, WORDS AND/OR SYM, CONTRAST (BLACK-WHITE), TP PB	2	EA	$ 1,225.00	$ 2,450.00	
			TOTAL		$ 11,931.16	

NORTH FULTON COUNTY COMMUNITY IMPROVEMENT DISTRICT
SR 400 NORTHBOUND EXIST RAMP AT WINDWARD PARKWAY

ROADWAY						
ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
SIGNALIZATION						
ITEM CODE	ITEM DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	ITEM TOTAL	COMMENT
615-1200	DIRECTIONAL BORE - 3 IN	285	LF	$ 9.72	$ 2,770.20	
615-1200	DIRECTIONAL BORE - 5 IN	275	LF	$ 9.72	$ 2,673.00	
639-3004	STEEL STRAIN POLE, TP IV	1	EA	$ 11,329.00	$ 11,329.00	
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 1 - SR 400 NB EXIT RAMP AT WINDWARD PARKWAY	1	LS	$ 31,000.00	$ 31,000.00	
647-1000	TRAFFIC SIGNAL INSTALLATION NO - 2 - WINDWARD PARKWAY AT NORTH POINT PARKWAY	1	LS	$ 32,900.00	$ 32,900.00	
647-2160	PULL BOX, PB-6	2	EA	$ 700.00	$ 1,400.00	
682-6120	CONDUIT, RIGID, 2 IN	835	LF	$ 7.62	$ 6,362.70	
682-6233	CONDUIT, NONMETAL, TP 3, 2 IN	510	LF	$ 3.08	$ 1,570.80	
935-1113	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SM, 24 FIBER	1000	LF	$ 1.48	$ 1,480.00	
935-3103	FIBER OPTIC CLOSURE, UNDERGROUND, 24 FIBER	1	EA	$ 467.51	$ 467.51	
935-4010	FIBER OPTIC SPLICE, FUSION	48	EA	$ 32.29	$ 1,549.92	
				TOTAL	$ 93,503.13	

SUMMARY					
A. RIGHT OF WAY				TOTAL	
B. REIMBURSABLE UTILITIES				TOTAL	
C. CONSTRUCTION					
	1. ROADWAY			TOTAL	$342,530.00
	2. DRAINAGE			TOTAL	$38,545.00
	3. PERMANENT EROSION CONTROL			TOTAL	$12,006.50
	4. TEMPORARY EROSION CONTROL			TOTAL	$13,391.00
	5. TEMPORARY DRAINAGE			TOTAL	$0.00
	6. SIGNING AND MARKING			TOTAL	$11,931.16
	7. SIGNALIZATION			TOTAL	$93,503.13
				SUBTOTAL	$511,906.79
	INFLATION (5% PER YEAR)				$25,595.34
	NUMBER OF YEARS				$1.00
				SUBTOTAL	$537,502.13
	E. & C. (10%)				$53,750.21
GRAND TOTAL CONSTRUCTION COST					$591,252.34