

PEDESTRIAN BRIDGE CONSISTS OF

1 - 60'-0" PREFABRICATED STEEL PEDESTRIAN BRIDGE SPAN --- SPECIAL DESIGN
 2 - PILE END BENTS ----- SPECIAL DESIGN
 24" TYPE I RIP RAP
 BAR BENDING DETAILS ----- GA. STD. 3901(8-69)
 TYPICAL FILL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ----- 8.92 SQ. MI.

FLOOD FREQUENCY	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING BELOW FLOODSTAGE	BACKWATER
50 YEAR	1863.19 CFS	7.37 FPS	252.65 SF	1.03 FT
100 YEAR	1833.2 CFS	7.26 FPS	252.65 SF	0.98 FT

EXISTING UTILITIES

GAS MAIN (NOT ATTACHED) ----- ATLANTA GAS LIGHT COMPANY

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITIONS, AS MODIFIED BY CONTRACT DOCUMENTS.
 REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.
 CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
 EXISTING RIP RAP - INCLUDE THE COST OF REMOVING, RELAYING, AND/OR REPLACING RIP RAP IN THE OVERALL BID SUBMITTED.
 STEEL H-PILES - USE STEEL FOR H-PILES THAT MEETS THE REQUIREMENTS OF ASTM A 709 GR 50.
 PLAN DRIVING OBJECTIVE - AT EACH BENT, DRIVE ALL PILES TO THE DRIVING RESISTANCE AFTER ACHIEVING THE MINIMUM PILE TIP ELEVATION. SEE TABLE BELOW.
 PILOT HOLES - DRILL A 24" MAX. DIAMETER PILOT HOLE TO A MINIMUM ELEVATION FOR EACH PILE AS SHOWN IN TABLE BELOW OR 5'-0" INTO COMPETENT ROCK, WHICHEVER IS LOWER.

END BENT NUMBER	DRIVING RESISTANCE (TONS)	MINIMUM PILE TIP ELEVATION
1	70	905.00
2	70	903.00

PILE ENCASEMENT - ENCASE PILES AT BENTS 1 AND 2 IN CONCRETE UP TO TOP OF ROCK. ENCASEMENT SHALL BE IN ACCORDANCE WITH SECTION 547 OF THE GEORGIA DOT SPECIFICATIONS AND SPECIAL PROVISION SECTION 520.

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 AASHTO PEDESTRIAN BRIDGE SPECIFICATIONS 1ST EDITION, 1997 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
 LIVE LOAD ----- 85 PSF
 VEHICLE LOAD ----- 6,000 LB
 CONCRETE SUBSTRUCTURE ----- CLASS A, $f'_c = 3,000$ PSI
 REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI
 STEEL H-PILES: ----- GRADE 50, $f_y = 50,000$ PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3101	10.4	CY	CLASS A CONCRETE
511-1000	1694	LB	BAR REINF STEEL
520-1125	150	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-5000	30	LF	PILOT HOLES
547-2012	30	LF	PILE ENCASEMENT, 12 IN PILE
603-2024	100	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	100	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

G & A CONSULTING ENGINEERS PLLC
 2325 OLD ORCHARD DRIVE
 MARIETTA, GA 30068
 (678) 634-8919
 GA PEF NO: 006487

GEORGIA
 DEPARTMENT OF TRANSPORTATION
 ENGINEERING DIVISION-OFFICE OF BRIDGES & STRUCTURES

GENERAL NOTES
 IRWIN ROAD PED. BRIDGE OVER NOSES CREEK
 COBB COUNTY P.I. NO. 0010401

SCALE: NO SCALE APRIL 2015



DRAWING NO.
35 - 02
BRIDGE SHEET
2 OF 5

REVISIONS	DATE	BY	ADDED
	06-02-2015		

DESIGNED: JBA	CHECKED: NTG	REVIEWED: _____
DRAWN: JBA	DESIGN GROUP: _____	APPROVED: _____

RELEASED FOR CONSTRUCTION MAY 27, 2015