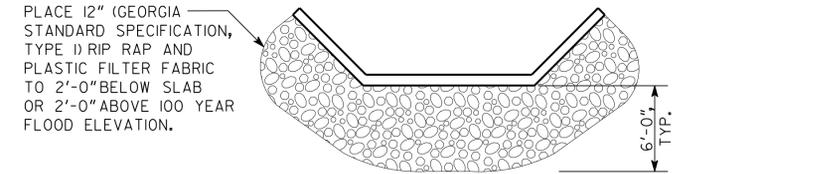


DRAINAGE DATA
DRAINAGE AREA ----- 0.10 SQ MI
NORMAL CONDITIONS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50-YR	216 CFS	6.25 FPS	34.54 SQ FT	0.00 FT
100-YR	248 CFS	6.32 FPS	39.25 SQ FT	0.00 FT
500-YR	342 CFS	6.63 FPS	51.56 SQ FT	0.00 FT

ABNORMAL CONDITIONS

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50-YR	29 CFS	0.38 FPS	75.31 SQ FT	0.04 FT
100-YR	27 CFS	0.36 FPS	75.31 SQ FT	0.03 FT
500-YR	26 CFS	0.35 FPS	75.31 SQ FT	0.05 FT



RIP RAP PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
1. MAINTAIN 2" CL. ON REINFORCEMENT UNLESS OTHERWISE NOTED.
 2. BOTTOM OF ABUTMENT SHALL BE LEVEL.
 3. STRUCTURE STEEL SHALL BE ASTM A-36, HOT DIPPED GALVANIZED PER A361-67.
 4. TIMBER SHALL BE PRESSURE TREATED SOUTHERN PINE GRADE NO. 2 WITH MINIMUM ALLOWABLE F_b :
RAIL TIMBER: 1250 PSI
POST TIMBER: 850 PSI
 5. BOLTS SHALL BE ANSI/ASME B18.2.1, GRADE 2, HOT DIP GALVANIZED.
 6. COMPACT ALL BASE AND BACKFILL TO 95% STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D 0698.
 7. ASSUMED FOUNDATION BACKFILL BEARING CAPACITY PROPERTIES:
40 PCF EQUIVALENT FLUID PRESSURE
300 PCF PASSIVE PRESSURE
0.35 SLIDING COEFFICIENT PRESSURE
2000 PSF ALLOWABLE BEARING CAPACITY
FOOTING SHALL BEAR ON UNDISTURBED SOIL.
FOUNDATION BEARING CAPACITY SHALL BE VERIFIED BY A REGISTERED ENGINEER.
 8. ALL BENTS ARE PARALLEL.
 9. THE PROPOSED BRIDGE WILL HAVE A FLAT CROSS SLOPE.
 10. DEWATERING OF FOOTING EXCAVATION MAY BE REQUIRED.
 11. SEE SHEET 29-031 FOR REINFORCING DETAILS.

BRIDGE CONSISTS OF

- 1 - 27'-0" X 6'-0" CONCRETE CAST-IN-PLACE SPAN ---- SPECIAL DESIGN
- 2 - CAST-IN-PLACE CONCRETE END BENTS ----- SPECIAL DESIGN

DESIGN DATA

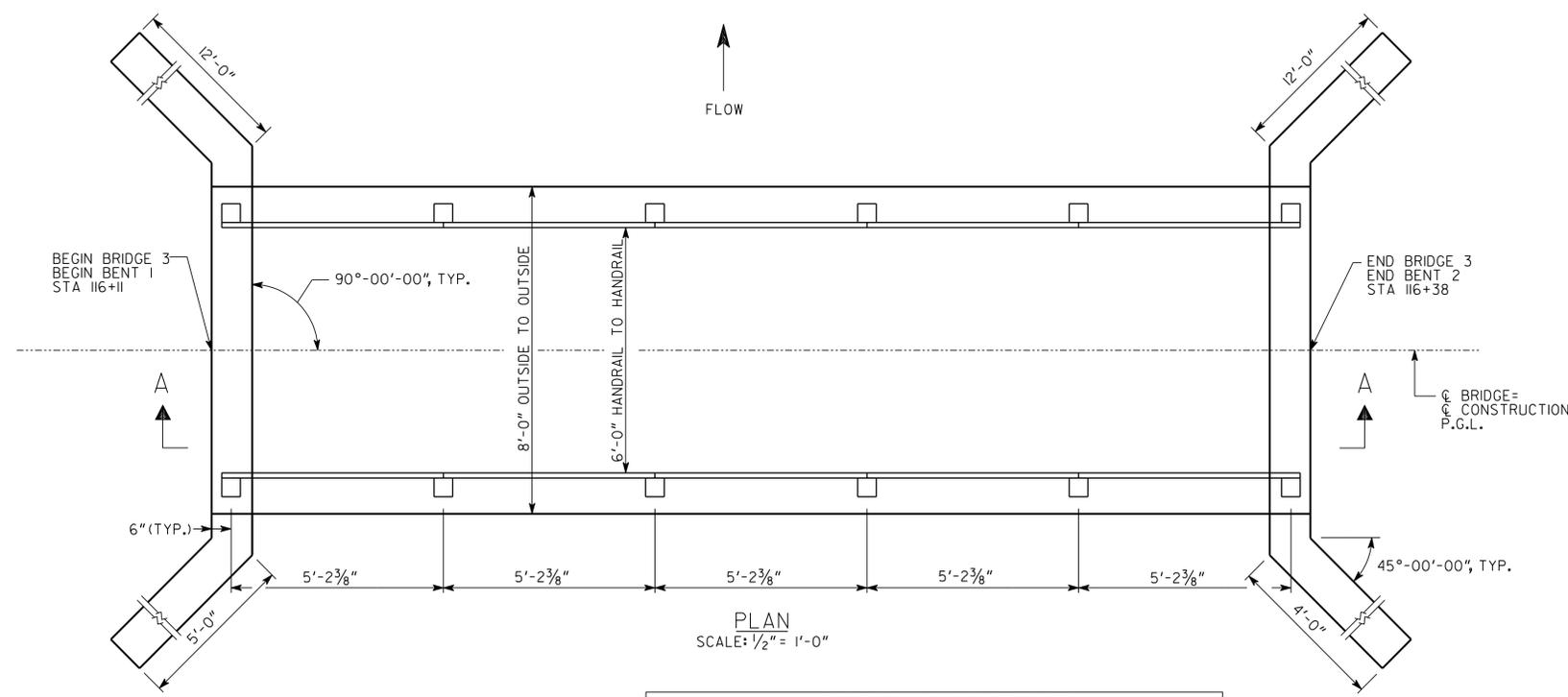
SPECIFICATIONS - AASHTO 17TH EDITION 2002 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

PEDESTRIAN LOADING ----- 85 PSF

VEHICLE LOADING ----- H-5 (TRUCK, W/O IMPACT)

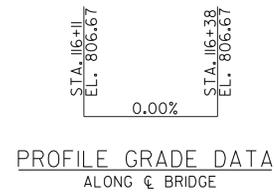
CONCRETE ----- CLASS A, $f_c = 3500$ PSI

REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI

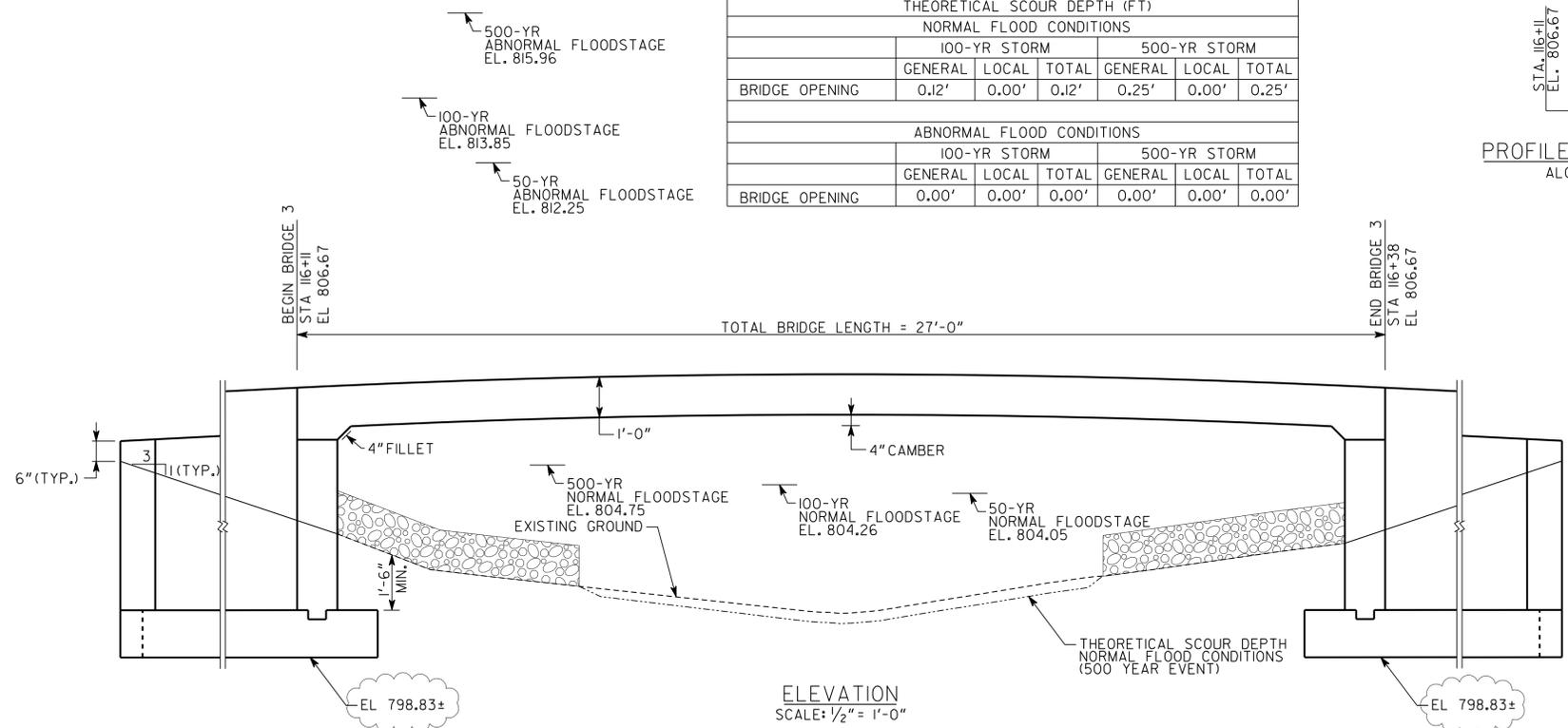


THEORETICAL SCOUR DEPTH (FT)

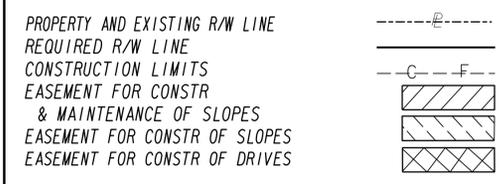
BRIDGE OPENING	NORMAL FLOOD CONDITIONS			ABNORMAL FLOOD CONDITIONS		
	100-YR STORM	500-YR STORM		100-YR STORM	500-YR STORM	
	GENERAL	LOCAL	TOTAL	GENERAL	LOCAL	TOTAL
	0.12'	0.00'	0.12'	0.25'	0.00'	0.25'
	0.00'	0.00'	0.00'	0.00'	0.00'	0.00'



PROFILE GRADE DATA
ALONG ϕ BRIDGE



ELEVATION
SCALE: 1/2" = 1'-0"



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

Archer Western Contractors

Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770)424-1668



REVISION DATES

09/26/13		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: Innovative Program Delivery

**PEDESTRIAN BRIDGE 3
PLAN & ELEVATION**

S. R. 400/ 1-85
CONNECTOR RAMPS

DRAWING No.
29-035

**RELEASED FOR CONSTRUCTION
FEBRUARY 28, 2012**