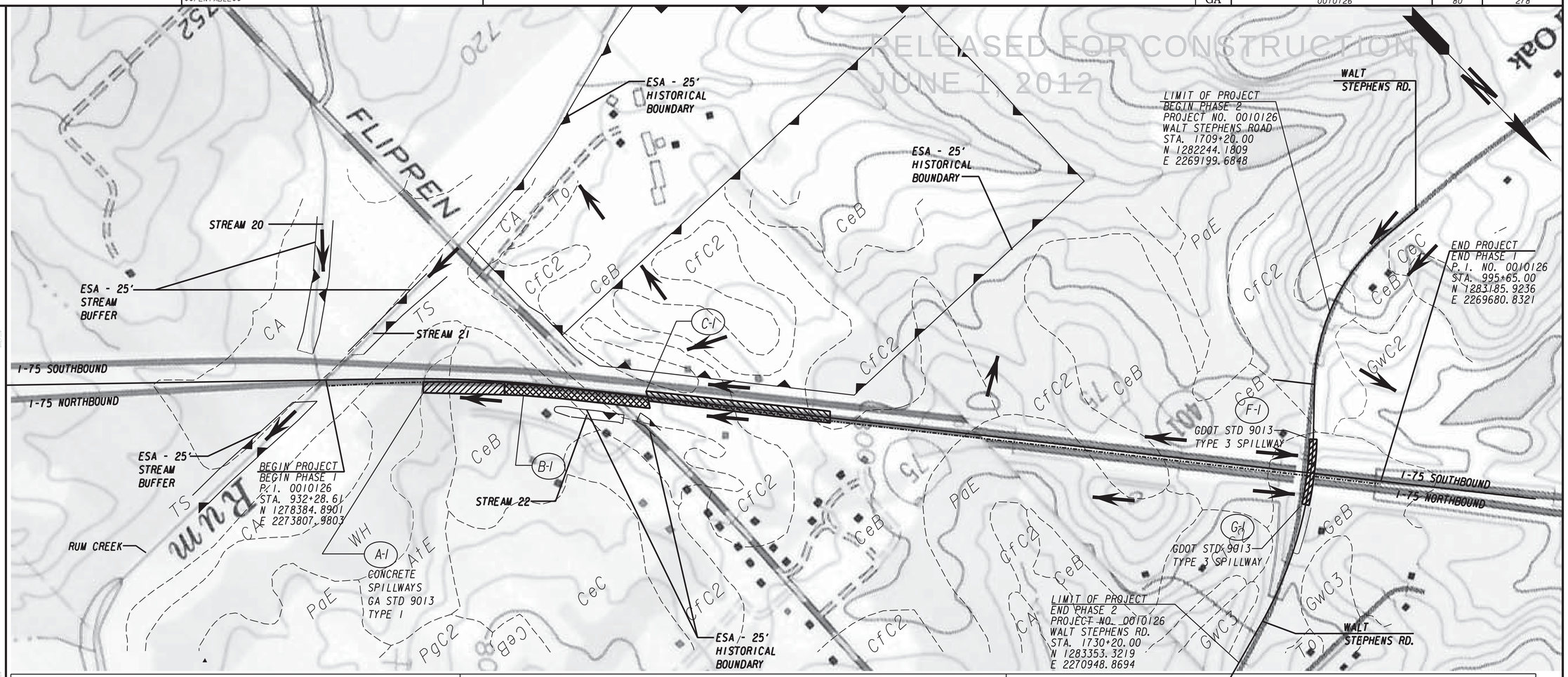
RELEASED FOR CONSTRUCTION
JUNE 1, 2012



DRAINAGE OUTFALLS

	DRAINAGE STRUCTURE/ AREA NO.	STATION	SKEW ANGLE	SIZE	DRAINAGE AREA ACRES	DRAINAGE AREA SQ. MI.	DISTURBED AREA (AC)	EXISTING CONDITIONS CHANNEL SLOPE %	EXISTING C	Q10 (CFS)	Q50 (CFS)	Q100 (CFS)	V10 (FPS)	V50 (FPS)	V100 (FPS)	HW10 (CFS)	HW50 (CFS)	HW100 (CFS)	PROPOSED CONDITIONS CHANNEL SLOPE %	PROPOSED C	Q10 (CFS)	Q50 (CFS)	Q100 (CFS)	V10 (FPS)	V50 (FPS)	V100 (FPS)	HW10 (CFS)	HW50 (CFS)	HW100 (CFS)
PHASE 1	A1	938+24 RT	-	2' CON FLUME	0.79	0.0012	0.27	*	*	*	*	*	*	*	*	***	***	***	5.77	0.95	4.58	5.76	6.29	**	**	**	***	***	***
PHASE 1	B1	942+90 RT	-	18" SLOPE DRAIN	1.36	0.0021	0.45	*	*	*	*	*	*	*	*	***	***	***	5.00	0.95	7.88	9.92	10.83	**	**	**	***	***	***
PHASE 1	C1	950+47 LT	-	15" STORM DRAIN	1.59	0.0025	0.90	4.86	0.75	7.27	9.16	10.00	5.93	7.47	8.14	***	***	***	4.86	0.95	9.21	11.60	12.66	7.51	9.45	10.32	***	***	***
PHASE 2	F1	1716+80 RT	-	2' CON FLUME	0.15	0.00023	0.15	*	*	*	*	*	*	*	*	***	***	***	4.00	0.95	0.86	1.03	1.24	**	**	**	***	***	***
PHASE 2	G1	1721+03 RT	-	2' CON FLUME	0.24	0.00038	0.24	*	*	*	*	*	*	*	*	***	***	***	4.27	0.95	1.45	1.74	2.09	**	**	**	***	***	***

TOTAL PROJECT AREA - 45.60 AC (PHASE 1)
- 6.40 AC (PHASE 2)
TOTAL DISTURBED AREA - 9.78 AC (PHASE 1)
- 5.55 AC (PHASE 2)

PHASE 1 RECEIVING WATER - RUM CREEK
PHASE 2 RECEIVING WATER - REEVES CREEK

PHASE 1 NOTES:
* Drainage areas for A1 and B1 are not concentrated in the existing condition. The addition of the side barrier concentrates the flow.
** Structures B1 is a slope drain. Structure C1 is a GDOT 9013 flume. No velocities are calculated. Structure B1 is a GDOT 1025 headwall with baffles and Structure C1 will be constructed with the recommened splash block. Both structures will have sufficient rip rap to limit the exit velocities.
*** Structure A1 is a flume. Structures B1 and C1 are closed drainage systems. No head water elevations can be calculated.

PHASE 2 NOTES:
* Drainage areas for F1 and G1 are not concentrated in the existing conditions.
** Structures F1 and G1 are flumes. No velocities are calculated. Both structures will be constructed with the recommended splash blocks and sufficient rip rap to limit exit velocities.
*** Structures F1 and G1 are flumes. No headwater elevations can be calculated.

Soil Legend

Map Unit Symbol	Map Unit Name
AtE	Ashlar sandy loam, very rocky, 10 to 25 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
CfC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded

Soil Legend

Map Unit Symbol	Map Unit Name
GeB	Gwinnett sandy loam, 2 to 6 percent slopes
PaE	Pacolet sandy loam, 10 to 25 percent slopes
WH	Wehadkee soils

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SCALE IN FEET
0 400 800 1600

REVISION DATES
09-12-2012

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE AREA MAP
I-75 NORTHBOUND AUXILIARY LANE PROJECT-PHASE 1 & 2

DRAWING No. 21-01

3/1/2007 GPLN