



		DIMENSIONS (INCHES)										
		A	B	C	D	E	F	G	H	J	K	L
	MIN.	24	8	0.375	0.375	4B	2	2	9.5	2	8.5	1.5
	SPEC.	30	12	0.375	0.625	5B	3.5	2	12.2	3	8.5	1.5
	EXPWY.	36	12	0.50	0.75	6B	3	2.5	14.8	3	8.5	1.875
	FWY.	48	18	0.625	0.875	8B	4	3.5	19.1	4	8.5	2.25

NOTE: THE SIGN IS TO HAVE A BLACK LEGEND ON AN ORANGE RETROREFLECTIVE BACKGROUND THAT IS ASTM TYPE VII MINIMUM.

WORK ZONE SIGN DETAIL
NOT TO SCALE

POSTED SPEED (MPH)	TAPER LENGTHS (FT)		TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤40	90	320	160	1:9	305	40	80
45	150	540	270	1:9	360	45	90
50	170	600	300	1:11	425	50	100
55	185	660	330	1:13	495	55	110
60	200	720	360	1:13	570	60	120
65	215	780	390	1:13	645	65	130

TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:
 $L = WS$ FOR POSTED SPEEDS OF 45 MPH OR GREATER
 $L = WS^2/60$ FOR POSTED SPEEDS OF 40 MPH OR LESS

L = MINIMUM LENGTH OF TAPER
W = WIDTH OF OFFSET IN FEET. (TYPICAL)
S = POSTED SPEED IN MPH

TRAFFIC CONTROL NOTES:

- SEE TRAFFIC CONTROL PLAN (1 OF 4), SHEET 5 FOR ADDITIONAL NOTES AND APPROACH SIGNING NOT SHOWN.
- IF THE LANE CLOSURE IS TO LAST LONGER THAN 3 DAYS, THE CONTRACTOR SHALL USE TEMPORARY TRAFFIC BARRIER AS SHOWN ON THIS SHEET AND PAID AS 621.90, "TEMPORARY TRAFFIC BARRIER", TEMPORARY TRAFFIC BARRIER SHALL BE A CONCRETE MEDIAN BARRIER (CMB) TYPE. STEEL BEAM GUARDRAIL WILL NOT BE ALLOWED FOR USE AS A TEMPORARY TRAFFIC BARRIER. WHEN ONE SIDE OF THE BRIDGE IS COMPLETE, MOVING THE BARRIER TO CLOSE THE OTHER SIDE TO TRAFFIC SHALL BE INCLUDED IN ITEM 621.95, "REMOVE AND RESET TEMPORARY TRAFFIC BARRIER".
- AN ENERGY ABSORPTION ATTENUATOR PAID AS ITEM 621.56, "ENERGY ABSORPTION ATTENUATOR", SHALL BE LOCATED AT THE END OF THE BARRIER.
- AT THE DISCRETION OF THE ENGINEER, MERGING TAPER AND BUFFER SPACE LENGTHS MAY BE EXTENDED BEYOND MINIMUM VALUES, ESPECIALLY IN CLOSE PROXIMITY TO INTERCHANGE RAMP, CURVES OR OTHER INFLUENCING FACTORS.
- QUANTITIES INCLUDE TWO ENERGY ABSORPTION ATTENUATORS PER BRIDGE FOR EACH LANE CLOSURE, AND ONE BACKUP ATTENUATOR FOR THE PROJECT (INCLUDED IN QUANTITY FOR BR 67) TO BE USED IN THE EVENT AN IN-SERVICE ATTENUATOR IS DAMAGED AND NEEDS TO BE REPLACED. COST TO MOVE ATTENUATORS FOR SHIFTING LANE CLOSURES SHALL BE INCLUDED IN ITEM 621.56, "ENERGY ABSORPTION ATTENUATOR".
- THE TYPE II RAISED PAVEMENT MARKERS SHALL BE PLACED TO THE OUTSIDE OF THE TEMPORARY TAPE PAVEMENT MARKINGS. THE TYPE II RAISED PAVEMENT MARKERS SHALL BE SPACED AT 20 FEET.
- SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL REQUIREMENTS AND LIMITS ON LANE CLOSURES DURING DAYTIME AND NIGHTTIME HOURS ON BRIDGES 63N AND 63S.

PROJECT NAME: WILLISTON-GEORGIA
PROJECT NUMBER: IM MEMB(25)

FILE NAME: z10a184+cp2.dgn
PROJECT LEADER: M.A. COLGAN
DESIGNED BY: J.W. GOLEK
TRAFFIC CONTROL PLAN (2 OF 4)

PLOT DATE: 5/4/2011
DRAWN BY: J.W. GOLEK
CHECKED BY: S.E. BURBANK
SHEET 6 OF 38

