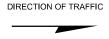
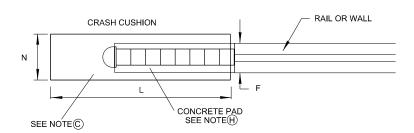
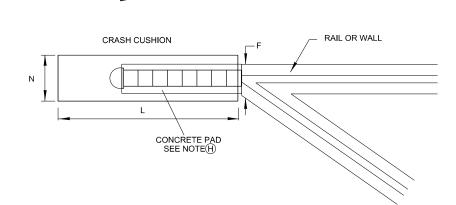
REV. 3-28-17: CHANGED PAY ITEM NUMBERS.





CRASH CUSHION AT THE END OF GUARDRAIL OR BARRIER WALL



CRASH CUSHION AT THE END OF DIVERGING GUARDRAILS OR BARRIER WALLS

N: APPROXIMATE WIDTH OF SPACE NECESSARY FOR THE PLACEMENT

L: APPROXIMATE LENGTH.

DIRECTION OF TRAFFIC

F: WIDTH OF A FIXED OBJECT THAT WILL BE SHIELDED WITH A CRASH CUSHION.

MINIMUM CRASH CUSHION RESERVE AREA (FT)

DESIGN SPEED MPH (MAIN LINE)	MINIMUM DIMENSIONS ①				DESIRABLE		
	RESTRICTED ② DIMENSIONS		UNRESTRICTED DIMENSIONS		DIMENSIONS		
	N	L	N	L	N	L	
30	6	8	8	11	12	17	
50	6	17	8	25	12	33	
70	6	28	8	45	12	55	

(1) MINIMUM DIMENSIONS SHOULD ONLY BE USED AT LOCATIONS WHERE IT IS INFEASIBLE TO PROVIDE THE DESIRABLE AREA. IN CASES WHEN MORE THAN THE MINIMUM AREA CAN BE PROVIDED, AS MUCH SPACE AS POSSIBLE SHOULD BE PROVIDED.

② RESTRICTED MINIMUM DIMENSIONS SHOULD ONLY BE USED IF THE MINIMUM UNRESTRICTED DIMENSIONS ARE UNATTAINABLE.

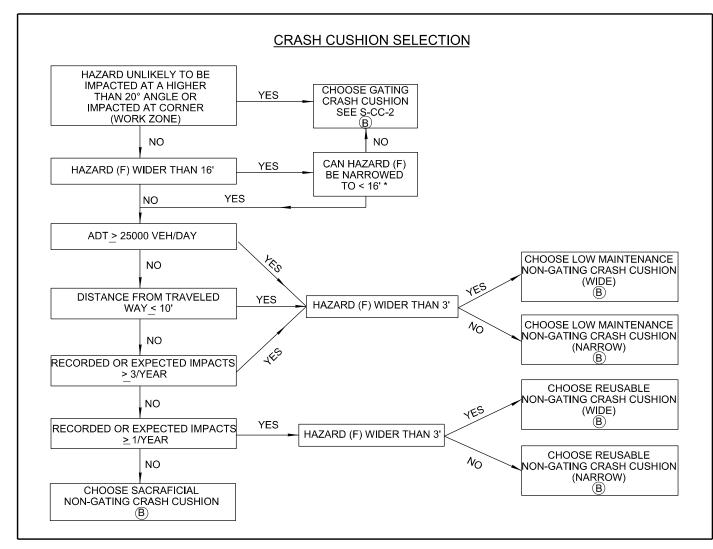
LEGEND:

ATTENUATOR CLASSES DESCRIPTION

SACRIFICIAL: DEVICES DESIGNED FOR A SINGLE IMPACT SHOULD ONLY BE USED IF FREQUENT ATTENUATOR IMPACTS ARE NOT EXPECTED

REUSABLE: DEVICES FREQUENT DESIGNED THAT CAN BE REPAIRED BY SALVAGING MOST MAJOR COMPONENTS.

LOW-MAINTENANCE: DEVICES DESIGNED TO BE EASILY RESET AFTER IMPACT WITH MINIMAL REPAIR, USE IN AREAS WITH FREQUENT



* REDUCTION TO 16' CAN BE DONE BY MODIFYING BARRIER OR TRANSITION SECTION

GENERAL NOTES

- A CRASH CUSHIONS SHOULD ONLY BE USED IF LIMITED SPACE (SUCH AS A GORE AREA) PRECLUDES THE USE OF GUARDRAIL END TERMINALS OR AT OTHER LOCATIONS WHERE GUARDRAIL END TERMINAL WILL NOT FUNCTION.
- B CRASH CUSHIONS SHALL BE INSTALLED PER MANUFACTURERS SHOP DRAWINGS. SYSTEMS APPEARING ON THE QUALIFIED PRODUCT LIST 34 SECTION C ONLY MAY BE USED FOR THE SPECIFIED CATEGORY DETERMINED.
- © THE NOSE OR FIRST BARREL OF THE CRASH CUSHION SHALL BE MARKED WITH OBJECT MARKER STRIPING TYPE 3 INCLUDED IN THE COST OF THE SYSTEM.
- D SYSTEMS SHALL BE INSTALLED ON HARD, SMOOTH SURFACES WITH SLOPES LESS THAN 5% AND VARIATION OF CROSS SLOPE LESS THAN 2% CHANGE FOR THE LENGTH OF RESERVE AREA.
- (E) ONLY TL-3 CRASH CUSHION SHALL BE USED ON TDOT PROJECTS.
- F CURBS SHALL NOT BE INSTALLED IN AREAS NEAR CRASH CUSHIONS, EXISTING CURBS TO BE REMOVED UNLESS OTHERWISE SPECIFIED.
- $\begin{tabular}{ll} \hline G \\ \hline \end{tabular}$ IF A CRASH CUSHION WOULD COMPROMISE SIGHT DISTANCE A SYSTEM WITH REDUCED HEIGHT (LESS THAN 36" HEIGHT) MAY BE SPECIFIED.
- (H) ALL PERMANENT INSTALLATIONS REQUIRE CONCRETE FOUNDATION AS SHOWN ON MANUFACTURERS SHOP DRAWINGS.
- (I) NON-GATING CRASH CUSHIONS (ATTENUATORS) SHALL BE PAID FOR:

705-20.20 LOW MAINT CRASH CUSHION NARROW (MASH TL-3) EACH 705-20.21 LOW MAINT CRASH CUSHION WIDE(MASH TL-3) EACH 705-20.22 REUSABLE CRASH CUSHION NARROW (MASH TL-3) EACH 705-20.23 REUSABLE CRASH CUSHION WIDE (MASH TL-3) EACH

THE PAYMENT OF ATTENUATOR INCLUDES CONCRETE FOUNDATION

WORK ZONES

705-20.25 TEMPORARY CRASH CUSHION (MASH TL-3)

CRASH CUSHION

STATE OF TENNESSEE

DEPARTMENT OF

TRANSPORTATION

S-CC-1

CRASH CUSHION