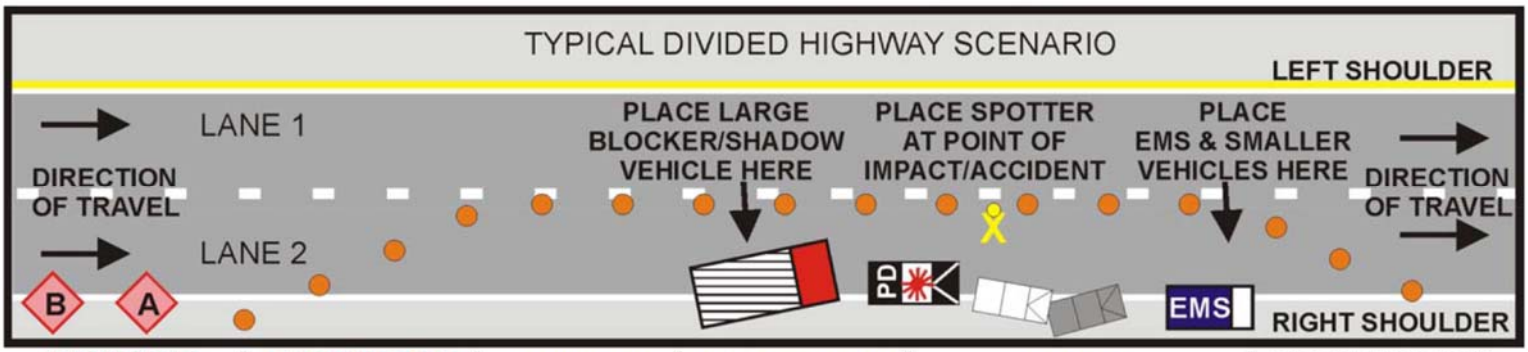
← UPSTREAM TEMPORARY TRAFFIC CONTROL (TTC) ZONE DOWNSTREAM →



INCIDENT MAGNITUDE		
MAGNITUDE	DURATION	STEPS TO TAKE
Minor	<30 Minutes	• Notify TOC if incident is on roadway where a minor delay can create significant traffic impact • Establish Advance Warning Area and other TTC Components as time/personnel permits
Intermediate	30 minutes - 2 hours	• Notify Transportation Operations Center (TOC) • Establish TTC Components • Consider DOT Response
Major	2+hours	• Notify Transportation Operations Center (TOC) • Request DOT Response Early • Establish Full Work Zone (Same as Non-Emergency)

ADVANCE WARNING AREA		TRANSITION AREA	
SPEED	SIGN DISTANCE	TAPER LENGTH	TYPICAL #CONES
40	A 350	320 ft.	8
55	A 750	660 ft.	16
65	A/B 1000/1500	780 ft.	18

RULES OF THUMB: 1. Travel lanes numbered from left-to-right. 2. Skip line is 10 ft. long with 30 ft. between skips. Taper cones at start of each skip line (40 ft.)
3. Length of Advance Warning Area = 8 x Roadway MPH. Use 12x factor for rural roads due to limited sight distance. Sign distance is from start of taper/transition.

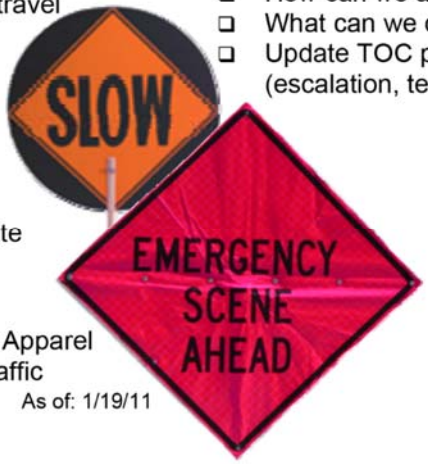
ResponderSafety.com
EMERGENCY RESPONDER CHECKLIST

Safe and Effective Traffic Control is the Responsibility of On-Scene Responders:
Communicate-Coordinate-Cooperate

INITIAL ACTION ITEMS: (Within first 15 minutes)
- ❑ Estimate magnitude/expected duration of incident
- ❑ Estimate vehicle queue (backup) length
- ❑ Establish Incident Command/Unified Command Post
  - ○ Assign Traffic Control Officer
- ❑ Identify the need for and request secondary response agencies: TOC, HazMat, Towing/Recovery, DPW, DOT, Accident Reconstruction, Medical Examiner, etc.
- ❑ Set-up appropriate TTC Components based on estimates. Upgrade TTC every 15 minutes.
- ❑ Set initial taper in direction of traffic travel
  - ○ Remove taper in opposite direction of traffic travel

VEHICLES:
- ❑ Limit number of responding vehicles
- ❑ Stage unnecessary vehicles off roadway
- ❑ Park *ALL* vehicles on same side of roadway
- ❑ Position apparatus to protect responders
- ❑ Minimize emergency lighting
- ❑ Create work area large enough to accommodate apparatus and responders *SAFELY!*

PERSONNEL:
- ❑ *ALL* responders *Identifiable* & in *High Visibility* Apparel
- ❑ *Always*: Be alert - Minimize exposure - Face traffic
- ❑ Place spotter at incident scene



CONSIDERATIONS:
- ❑ Time of the incident and amount of traffic congestion
- ❑ Can vehicles be moved from roadway? *Steer it. Clear it.*
- ❑ Can all lanes remain open?
  - ○ For Limited Access Highways:
    1 minute of lane closure = 1 mile of backup
- ❑ Determine emergency vehicle access route(s)
- ❑ Will closures create backups on other roadways?
- ❑ How quickly can lanes reopen? Minimize on-scene time.
  - ○ Post incident Recovery:
    1 minute of initial delay = 8 minutes to return to normal traffic
- ❑ How can we avoid secondary accidents?
- ❑ What can we do to make the scene *SAFER*?
- ❑ Update TOC periodically and as incident changes (escalation, termination, etc.)

As of: 1/19/11

REACT

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