

Basic Worker Safety



SAFETY

Traffic Control in Work Zones

- Temporary
- Constantly changing
- Not well liked by motorists
- Unexpected by the road users
- Workers may be present
 - –3 workers die each day!!
 - -20% of work zone fatalities







Record High!

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WORKER SAFETY

Nation

Deaths in highway work zones reach record

By Hava El Kaleson USAY CLUM

WASHINGTON - The numon of people killed along highway work copes has reached a r or egrand could get higher as tecerni dellare ça a ič ili THE ME AN AUGS COMMERCED BE, BANDAL

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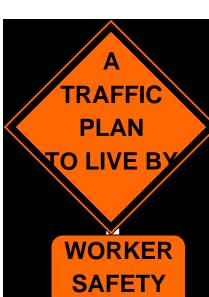


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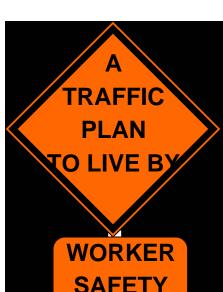


Working Near Traffic

- Extremely dangerous
- Requires
 - Training in safe practices
 - -Alertness
 - -Common sense
 - Sense of responsibility







Responsibilities of Traffic Workers

- His/her own safety
- Safety of other workers
- Safety of the driving public
- Safety of pedestrians and bicyclists

Know how to do the job right!!

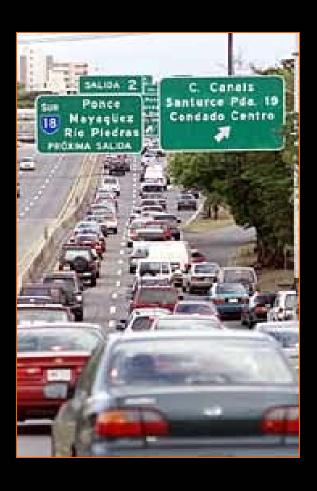




Are tired or preoccupied

- Workers need to be alert
 - –To protect themselves
 - To protectfellow workers
 - To protect motorists

Drivers



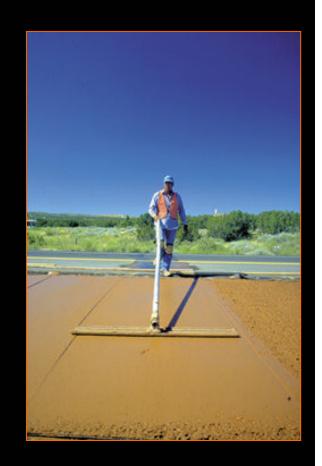




Most Common Accidents

WORKER SAFETY

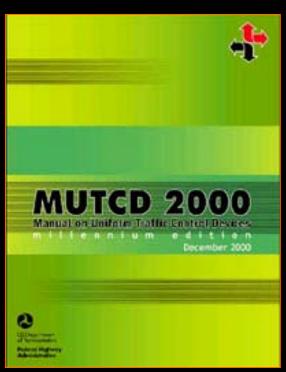
- Flaggers struck by motorists
- Workers struck by construction equipment
- Workers struck by motorists

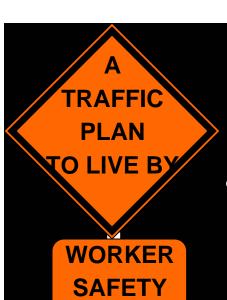




Worker Safety Regulations

- Temporary traffic control
 - Manual on Uniform TrafficControl Devices (Part 6)
 - Minimum Federal standards
 - Includes worker safety regulations
 - Applies everywhere, including utility operations



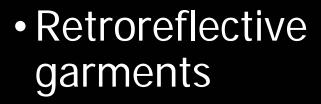


Worker Safety Regulations

Worker safety

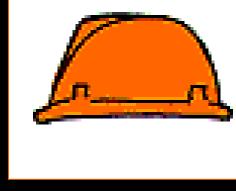
MUTCD

Occupational Safety
 and Health
 Administration
 (OSHA) may enforce
 worker safety
 requirements in the



Hardhats





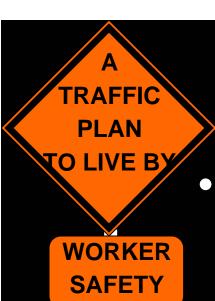




Keys to Improve Worker Safety

- Training
- Worker visibility
- Temporary traffic barriers
- Speed reduction
- Additional elements





Training

- All workers should be trained on
 - How to work near traffic
 - Safe traffic control practices
 - Device usage
 - Device placement







SAFFTY

Training

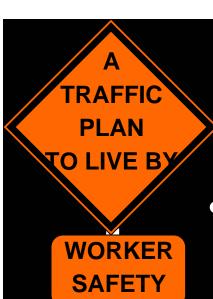
 "Each person whose actions affect temporary traffic control safety – from upper-level management personnel through field personnel – should receive training appropriate to the job decision each is required to make."

»Manual on Uniform Traffic Control Devices



Is training needed?





Worker Visibility

- Bright, highly visible garments
- Retroreflective for nighttime work
- Visible at a minimum distance of 1,000 ft.
- Identify the wearer as a person







Garments
should identify
the wearer as a
person;
throughout all
body motions..





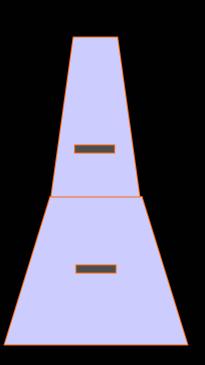




Temporary Traffic Barriers

- Should be placed along the work space depending on
 - Lateral clearance of workers
 - -Speed of traffic
 - Duration and type of work
 - –Time of day
 - –Volume of traffic







Speed Reduction

- Reducing the speed of motor vehicles should be considered
 - Regulatory speed zoning
 - Requires approval
 - Funneling
 - Use of law enforcement officials
 - Lane reduction
 - Flaggers (last resort!)





Additional Elements...

WORKER SAFETY

- Shadow vehicles
- Road closures
- Police use
- Lighting
- Special devices





Shadow Vehicles

- Used during mobile and moving operations
- Equipped with
 - -appropriate lights
 - -Warning signs
 - Rear-mounted impact attenuator
 - Retroreflective markings





Truck-Mounted Impact Attenuators

 Used to protect workers during moving operations







SAFETY

Road Closures

• If alternate routes are available

- Facilitate project completion
- Reduce worker vulnerability





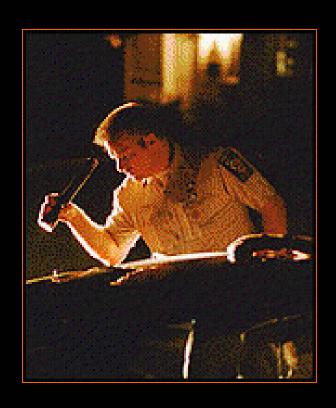
WORKER

SAFETY

Police Use

In highly vulnerable work situations

- Particularly short duration
- Dramatically improved safety

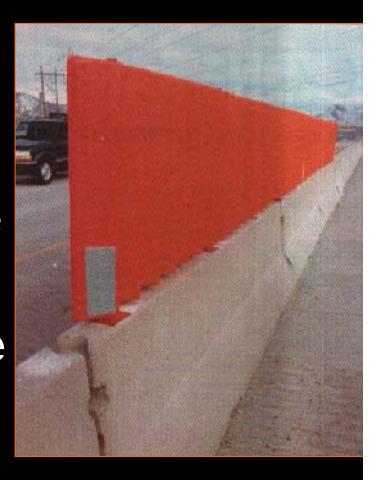






Lighting

- Essential for nighttime work
- Beware of disability glare
 - -Consider glare screens
- Key to nighttime visibility!!







WORKER

SAFETY

Disability Glare

- Glare that reduces the contrast of objects on the eye's retina to the point of invisibility.
- Specially critical for older drivers.





Special Devices

- "Judicious" use of these device may be helpful
 - Rumble strips
 - Changeable message signs
 - -Beacons
 - Portable signals
 - Warning lights







Special Devices

 Misuse or overuse may lessen their effectiveness







Remember the Keys to Improve Worker Safety

- Training
- Worker visibility
- Temporary traffic barriers
- Speed reduction
- Additional elements

Add common sense and a sense of responsibility!!

