

TRAFFIC CONTROL PERMIT REQUIREMENTS

1. All work, including policies, methods and procedures shall be done in accordance with the latest edition of the California Manual on Traffic Control Devices, the latest edition of Standard Specifications for Public Works Construction "Greenbook", and City of San Bernardino Standards.
2. All materials and equipment shall conform to the requirements of the latest editions of the Standard Specifications for Public Works Construction "Greenbook" and all Supplements; the State of California, Department of Transportation (Caltrans) Standard Plans and Specifications, and the California Manual on Uniform Traffic Control Devices.
3. **The Contractor shall notify the City of San Bernardino, Public Works Department a minimum of 48 hours before implementing this Traffic Control Plan.** All required construction permits shall be obtained from the City of San Bernardino Public Works Department, prior to beginning construction. The Contractor shall inform the City Engineer (Inspector) in the event of a conflict or potential conflict with the plans and/or specifications for this project.
4. The City Engineer (and/or his designee) reserves the right to observe field conditions and to make any necessary changes in the field. Exact location of all equipment and control devices to be determined by the City Engineer (Inspector). Additional warning and/or construction signs may be required by the City Engineer (Inspector).
5. It shall be the responsibility of the Contractor to maintain barricades, delineators, or other traffic control devices at all times. The devices shall have dimensions, color, and lettering conforming to the latest Caltrans sign specification sheets.
6. **Traffic controls devices must meet the following requirements:**
 - All traffic signs shall be a minimum size of 36 inches.
 - All traffic control advance warning signs shall be 36" X 36" minimum. Traffic control signs on arterials with an approach speed of 45 mph or higher shall be 48" X 48".
 - Signs shall not be placed in excess of 15 feet from the edge of traveled way. Portable sign standards shall be tied down or weighted to prevent toppling
 - The bottom of all signs shall be placed a minimum of 48 inches above the traveled surface and, wherever possible, 7 feet is the preferred height.
 - Signs shall not be placed in shadows or in obstructed locations.
 - All traffic control signs installed on the sidewalk shall be secured to an existing street light pole or a separate pole with a minimum height of 7' to the bottom of the sign.
 - All cones or portable delineators shall be a minimum of 28 inches in height and shall be internally illuminated or fitted with reflective sleeves, when used to delineate roadside obstacles during hours of darkness.
 - Delineators shall be spaced at 20 feet within 300 feet of an intersection. At areas where work is taking place on curves or where they separate two directions of traffic, the delineator spacing shall be reduced in half.

7. Access to existing businesses and residences shall be provided at all times. ADA compliant pedestrian access shall be provided through or around the work zone at all times.
8. **Flaggers shall be certified in flagging procedures.** Flaggers shall coordinate their efforts and stay in constant communication, via two-way radios, to prevent excessive queuing of traffic and to provide safe and smooth operation throughout the work zone.
9. The work zone and detour route shall be routinely inspected and maintained both day and night to ensure proper visibility and operation of all traffic control and advance warning devices. All flashing yellow beacons shall be inspected daily to ensure proper operation.
10. Night time work shall require adequate lighting to be provided at all flagger stations and work zones, but at no time shall lighting be directed away from the work zone into traffic with the potential to cause glare. All signs, cones, or delineators shall be illuminated or reflectorized with VIP or better reflective coating, and flashing yellow beacons shall be installed on all barricades located adjacent to travel lanes.
11. Any roadside obstacle associated with the work that must remain during non-work hours shall be, at a minimum, delineated with illuminated or reflectorized cones or delineators and barricades with flashing yellow beacons. In addition, advance C18 "ROAD CONSTRUCTION AHEAD" signs shall remain in operation with flashing yellow beacons. Electronic Changeable message signs may be required to adequately warn drivers about the work zone. In the event that traffic control measures must remain in place during hours of darkness, traffic control devices shall be illuminated or reflectorized with VIP or better reflective coating. Flashing yellow beacons shall be mounted on barricades to denote the work area.
12. **Warning Lights and barricades must meet the following requirements:**
 - All flashing yellow warning lights shall be portable, lens directed, enclosed and mounted at a minimum height of three (3) feet, measured from the bottom of the lens to the underlying surface.
 - Type "A" (low intensity) flashing yellow warning lights shall be used on all barricades used at night and they shall be in operation from dusk until dawn
 - Type "B" (high intensity) flashing yellow warning lights shall be used with the indicated signs and shall be in operation at all times (24 hours/day).
13. Striping and pavement markings shall be removed by wet sand blasting or grinding (thermoplastic) or as approved by the City Engineer. Blackout painting is not permitted.
14. All existing striping and pavement markings that are in conflict and/or are not applicable, shall be covered or removed, and replaced in kind during non-work hours. Upon completion of construction, contractor shall restore all signing, striping, barricades, and other traffic control devices to their original condition, or to the satisfaction of the City Engineer.
15. **Plate Bridging** – Non-skid steel plate covers shall be installed per City of San Bernardino standards. Plates shall be recessed to be flush with the pavement surface and secured with a minimum of 2 pins on all edges. Plated excavations that run parallel with and within traffic shall not exceed a lineal distance of 300 feet at any time.