

**TRAVEL LANE REQUIREMENTS**

BARRIER SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE CENTERLINE TO ALLOW THE TRAFFIC TO USE THE NORMAL LANE WIDTH.

EDGELINES WILL HAVE TO BE REMOVED AND NEW EDGELINES APPLIED WHEN A 14' WIDTH CANNOT BE MAINTAINED BETWEEN POSITIVE BARRIER AND EXISTING EDGELINE.

REMOVAL AND PLACEMENT OF EDGELINE SHALL BEGIN 600 FEET IN ADVANCE AND BEYOND BARRIER PLACED ON TANGENT. NEW EDGELINES SHALL BE A MINIMUM OF TWO FEET FROM BARRIER. TRAVEL LANES SHALL BE 12 FEET WIDE.

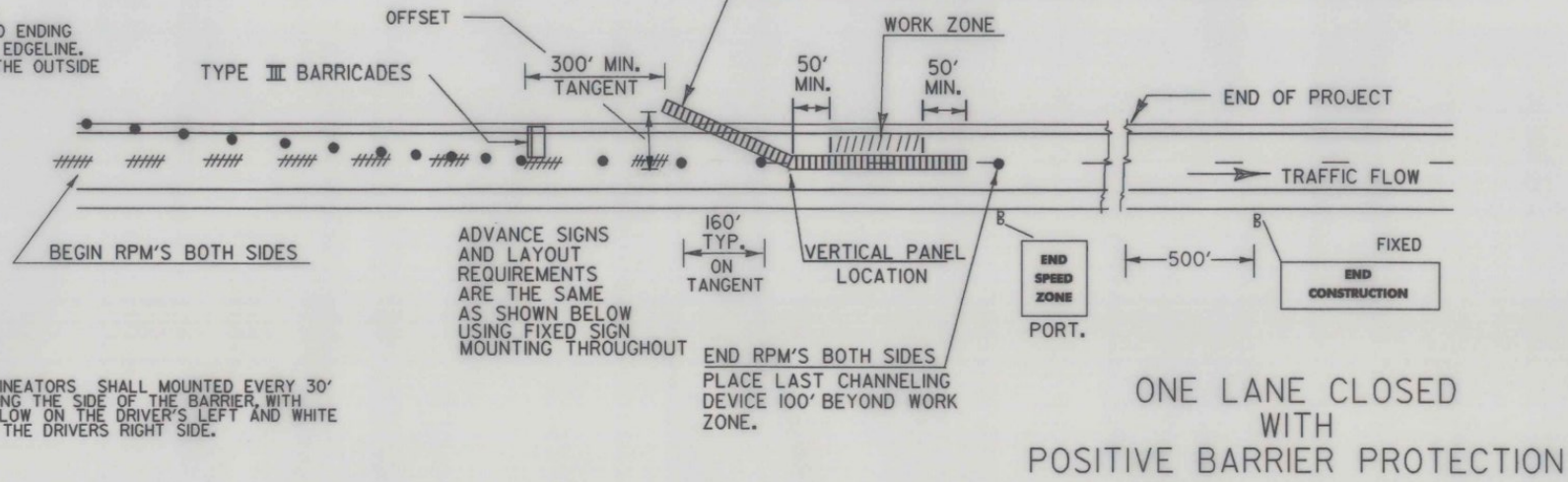
RAISED REFLECTORIZED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED, AT 20 FT SPACING BEGINNING AND ENDING AS SHOWN BELOW. COLORS SHALL MATCH ADJACENT EDGELINE. THEY SHALL BE POSITIONED ADJACENT TO, BUT ON THE OUTSIDE EDGE OF THE EDGELINE.

12" X 36" VERTICAL PANEL TO BE INSTALLED AT END OF BARRIER TAPER. STRIPES SLOPE DOWNWARD TOWARD THE SIDE OF THE BARRIER ON WHICH TRAFFIC IS TO PASS. MOUNTING IS DETERMINED BY CONTRACTOR

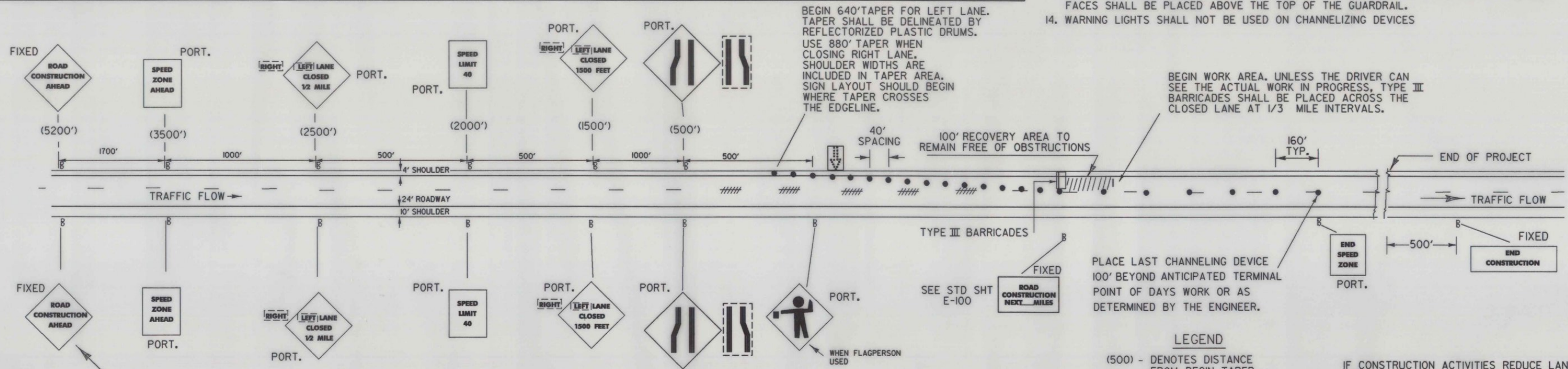


DELINEATORS SHALL MOUNTED EVERY 30' ALONG THE SIDE OF THE BARRIER, WITH YELLOW ON THE DRIVER'S LEFT AND WHITE ON THE DRIVER'S RIGHT SIDE.

"CONCRETE MEDIAN BARRIER". PROVIDE A MINIMUM TAPER RATE OF 1/4", WITH A MINIMUM OF 50 FT. OF TANGENT SECTION ON EACH END OF THE WORK ZONE. THE END OF THE BARRIER FACING APPROACHING TRAFFIC SHALL MEET THE FOLLOWING REQUIREMENTS: WHEN NO GUARDRAIL IS PRESENT, USE 30' OFFSET FROM EDGE OF TRAVELLED WAY. WHEN STEEL BEAM RAIL IS PRESENT, THE APPROACH END OF BARRIER SHALL BE PLACED 4 FEET BEHIND STEEL BEAM RAIL USING A POSITIVE CONNECTION AS DETAILED IN PROJECT PLANS. ALL OTHER CONDITIONS REQUIRE CRASH ATTENUATORS PLACED AT THE APPROACH END OF THE BARRIER.



1. WHEN CONSTRUCTION EQUIPMENT IS WORKING AT OR NEAR THE EXIT OR ENTRANCE RAMP, FLAGPERSONS OR UNIFORMED TRAFFIC CONTROL OFFICERS (UTO'S) SHALL BE USED TO ASSIST IN CONTROLLING TRAFFIC. LANE CLOSURE ADVANCE WARNING SIGNS SHALL BE INSTALLED ON ENTRANCE RAMP.
2. ALL SIGNS SHALL BE PLACED BEFORE ANY WORK BEGINS OR EQUIPMENT IS PUT ON THE ROADWAY. SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE, SEE STANDARD SHEET E-100 FOR REQUIREMENTS.
3. CONTRACTOR SHALL HAVE CHANNELIZING DEVICES AND SIGNS FOR LEFT SIDE CLOSURE AND RIGHT SIDE CLOSURE ON PROJECT BEFORE STARTING PROJECT.
4. PRIVATE VEHICLES SHALL NOT BE PARKED IN OR AROUND WORKING AREA. CONTRACTOR WILL PROVIDE PARKING FOR WORK CREW VEHICLES OFF PROJECT.
5. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED.
6. CHANNELIZING DEVICES OTHER THAN REFLECTORIZED PLASTIC DRUMS WILL BE ALLOWED ALONG TANGENT SECTIONS AS LONG AS THEY CONFORM TO THE M.U.T.C.D. AND ARE APPROVED BY THE RESIDENT ENGINEER.
7. REFER TO PROJECT "SPECIAL PROVISIONS" FOR SPEED ZONE ENACTMENT.
8. THE "SPEED LIMIT 40" AND OTHER RELATED SIGNS SHALL BE REMOVED OR COVERED WHEN WORK IS NOT IN PROGRESS AND ROADWAY IS NOT RESTRICTED.
9. THE FLASHING ARROW SHALL BE MOUNTED ON A BREAKAWAY OR YIELDING SYSTEM. PLACEMENT AT THE START OF THE TAPER IS PREFERRED TO PLACEMENT IN THE MIDDLE OF THE TAPER. THE FLASHING ARROW BOARD SHALL BE EQUIPPED WITH AN AUTOMATIC DIMMER FOR NIGHTTIME USE, AND SHALL BE DIMMED AT NIGHT. CONTROL BOX SHALL BE KEPT LOCKED.
10. "REDUCED SPEED AHEAD" SIGNS MAY BE USED IN LIEU OF "SPEED ZONE AHEAD".
11. THE SIGNS "LOW SHOULDER", "BUMP", "MOTORCYCLE" SYMBOL, "PAVEMENT CHANGE" AND OTHER RELATED SIGNS ARE TO BE USED AND PLACED AS DIRECTED BY THE RESIDENT ENGINEER.
12. ALL FIXED SIGNS SHALL BE MOUNTED ON YIELDING STEEL OR ALUMINUM SUPPORT AS SHOWN ON STANDARD SHEETS E-160 AND E-162.
13. PORTABLE SIGNS SHALL BE KEPT LEVEL WHEN PLACED ON THE EDGE OF ROADWAY AND ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED, PAYMENT SUBSIDIARY TO OTHER ITEMS. WHEN PLACED BEHIND GUARDRAIL, THE BOTTOM OF THE SIGN FACES SHALL BE PLACED ABOVE THE TOP OF THE GUARDRAIL.
14. WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES



USE PORTABLE "RIGHT OR LEFT LANE CLOSED 1/2 MILE" WHEN SIGN PACKAGE IS MOVED FORWARD. SIGNS NOTED AS FIXED SHALL REMAIN IN PLACE THROUGH THE ENTIRE PROJECT. SIGNS NOTED AS PORTABLE SHALL MOVE AS THE WORK AREA CHANGES. ALL SIGNS SHALL BE REMOVED OR COVERED WHEN NOT NEEDED.

- LEGEND**
- (500) - DENOTES DISTANCE FROM BEGIN TAPER
  - [Flashing Arrow Panel Symbol] - FLASHING ARROW PANEL
  - [ReflectORIZED Plastic Drum Symbol] - REFLECTORIZED PLASTIC DRUM
  - [Pavement Marking Removal Symbol] - PAVEMENT MARKING REMOVAL
  - [Concrete Median Barrier Symbol] - CONCRETE MEDIAN BARRIER
  - [Type III Barricade Symbol] - TYPE III BARRICADE
- IF CONSTRUCTION ACTIVITIES REDUCE LANE WIDTHS TO THE POINT WHERE 40 MPH CANNOT BE MAINTAINED, ADDITIONAL ADVISORY SPEED PLATE SIGNS SHALL BE INSTALLED UNDER THE LANE REDUCTION TRANSITION SIGN. FLAGPERSON AND U.T.O'S SHALL NOT BE ALLOWED TO INTERFERE WITH TRAFFIC BY STEPPING INTO THE LANE TO REDUCE DRIVER'S SPEED.

REVISIONS AND CORRECTIONS

APPROVED

OCT. 30, 1987  
DATE  
*David B. Kelley*  
CHIEF ENGINEER  
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DIRECTOR OF PLANNING  
AND PRE-CONSTRUCTION  
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TRAFFIC AND SAFETY ENGINEER

**MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY  
ONE LANE CLOSED**



**STANDARD  
E-103**