

**IMPEDIMENTS**

- Count Manhole "A" and inlet in "Lane 3".
- Count Manhole "B" in "Lane 1" & "Lane 2".
- Count Manhole "C" & "D" in "Lane 3".

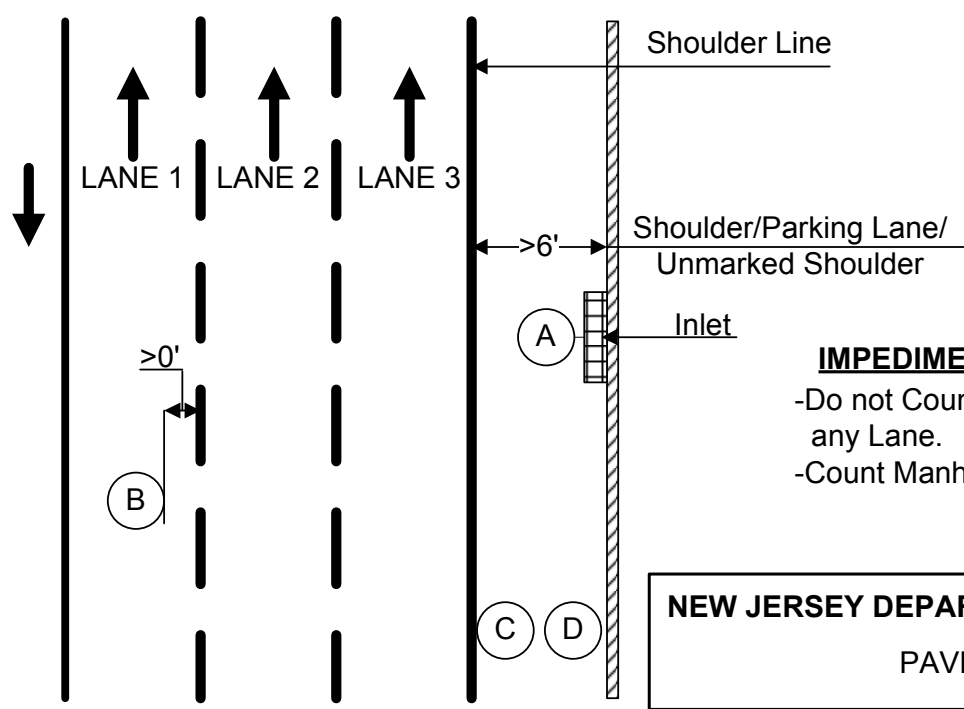
*Note: Parking lane or unmarked shoulder is additional area adjacent to 12 ft wide travel way available for parking, break down etc. and not marked as a shoulder.*

**IMPEDIMENTS/ SHORT SECTION (SS)**

- Count "L" in Lane 1 as a "SS", if Left Shoulder width is  $\leq 6'$ . Do not count any manhole or inlet or any impediment, if located within  $L+20'$ .

**Figure-2**

**Figure-1**



**Figure-3**

**IMPEDIMENTS**

- Do not Count Manholes "A, C & D" and inlet in any Lane.
- Count Manhole "B" in "Lane 1".

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PAVEMENT DESIGN

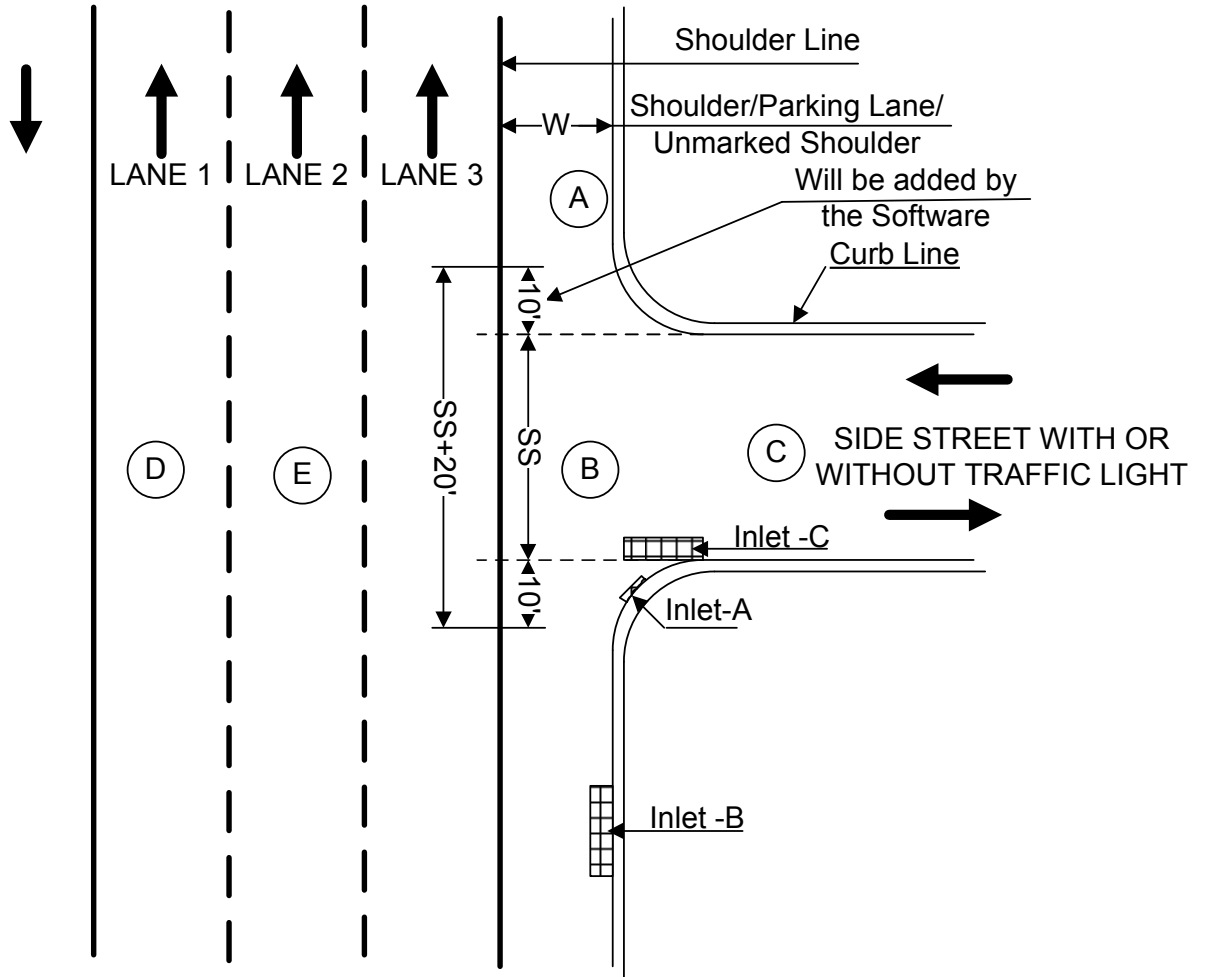
LOCALIZED FACTORS - EXAMPLES  
(RIDE QUALITY SPECIFICATIONS 2010)

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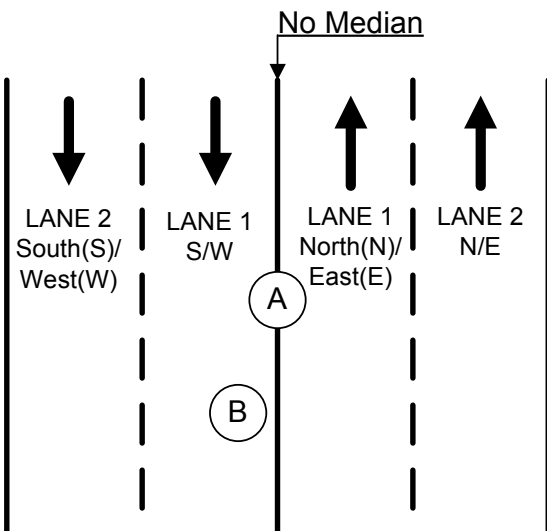
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**IMPEDIMENTS/ SHORT SECTION (SS) (Figure-4)**

- Count Manhole "A" in "Lane 3", if  $W \leq 6'$
- Count SS (Short Section) in "Lane 3", if  $W \leq 6'$ .
- Do not Count Manhole "B" in "Lane 3", if it is located within SS+20' i.e. excluded Area.
- Count Inlet "A" in "lane 3", if  $W$  is  $\leq 6'$  and located outside the excluded length i.e. SS+20'.
- Count Inlet "B" in Lane 3, if  $W \leq 6'$
- Do not count inlet "C" and manhole "C".
- Count Manhole "D" & "E" in "Lane 1" & "Lane 2" respectively.



**IMPEDIMENTS (Figure-5)**

- Count Manhole "A" in "Lane 1 S/W" and "Lane 1 N/E"
- Count Manhole "B" in "Lane 1 S/W"

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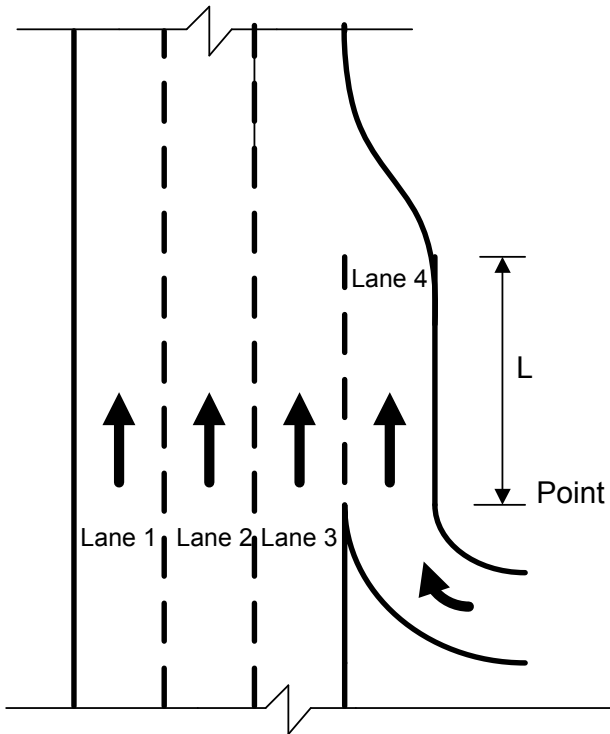
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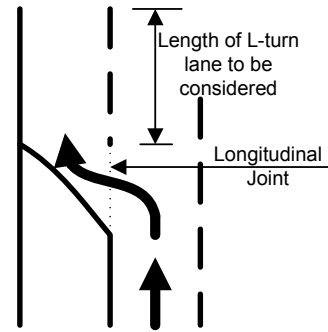


**FIGURE 6**  
ACCELARTION LANE LENGTH

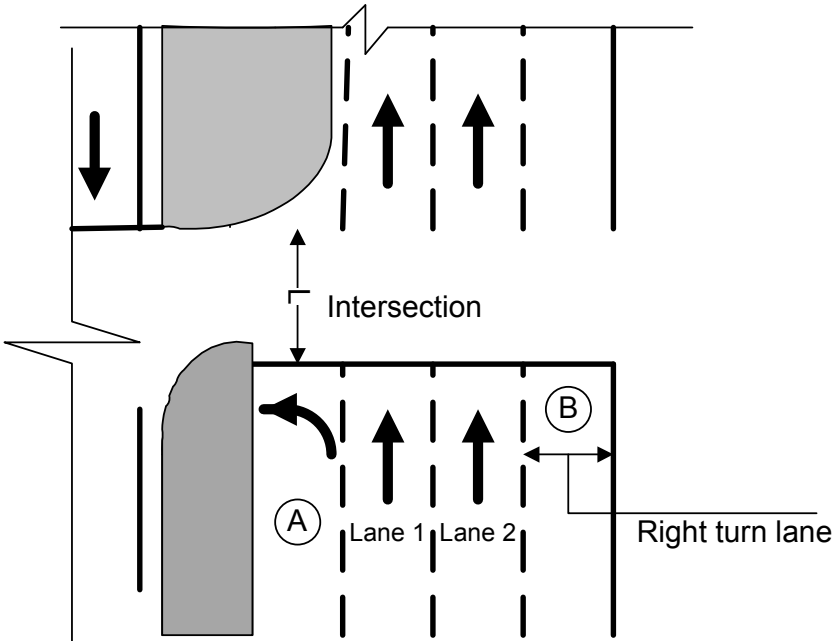
Lane 4 will be tested, if  $L \geq 1000$  ft.

Note: -If multiple curves are existing within the length L, Pavement Design Unit should be consulted to determine limits of ride quality.

Point of Tangent ( PT)



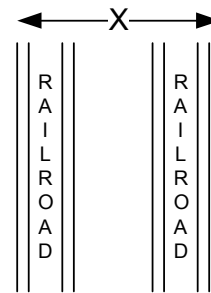
**FIGURE 8**  
LENGTH OF L-TURN LANE



**FIGURE 7**

**INTERSECTION WITH TURNING LANES**

1. If left turn lane < 1000 ft, left turn lane will not be tested. Do not count "L" as "SS" for lane 1. Also, do not count Manhole "A" for lane 1.
2. If left turn lane  $\geq 1000$  ft, left turn lane will be tested as a Lane. Do not count "L" as "SS" for L-turn lane, if lane terminate at the intersection. If L-turn lane continue after intersection, count "L" as "SS" for L-turn lane. Count manhole/inlet/utility valves located in L-turn lane for L-turn lane.
3. if right turn lane < 1000', right turn lane will not be tested. Do not count "L" as "SS" for Lane .
4. If right turn lane  $\geq 1000$  ft, right turn lane will be tested as a lane. Count "L" as "SS" for right turn lane and count all metal as "IM" located within R-turn lane for R-turn lane.



Exclusion Width= $X$ +Threshold length of Impediment

**FIGURE 9**  
LENGTH OF L-TURN LANE

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PAVEMENT DESIGN

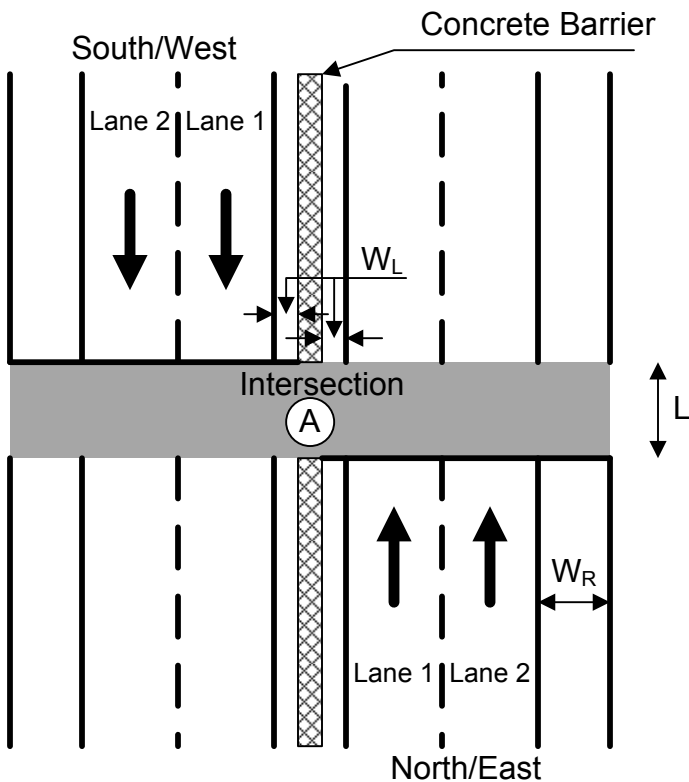
IMPEDIMENT EXCLUSIONS IN  
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$W_L$  = Width of left shoulder

**FIGURE 10**

**PAVING BOTH DIRECTIONS UNDER THE CONTRACT**

1. Do not count "L" as SS for lane 1 for any width of  $W_L$ .
2. Count all metals located within left shoulder as IM for Lane 1, if  $W_L \leq 6'$ .
3. Count "A" as "IM" for Lane 1 of both directions, if  $W_L \leq 6'$ .
4. Do not Count any metal or manhole A as "IM", if  $W_L > 6'$ .

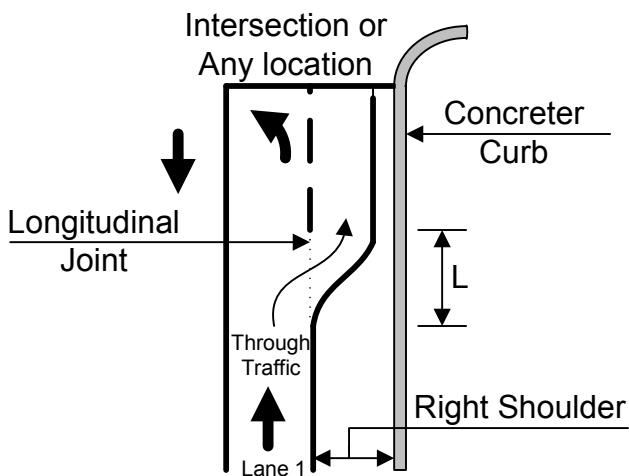
**PAVING ONE DIRECTION UNDER THE CONTRACT**

5. Count "L" for lane 1, if  $W_L \leq 6'$ .
6. Count "A" as "IM" for Lane 1, if  $W_L \leq 6'$ .
7. Do not count "L" for lane 1 as SS, if  $W_L > 6'$ .
8. Do not count any metal located within left shoulder, if  $W_L > 6'$ .

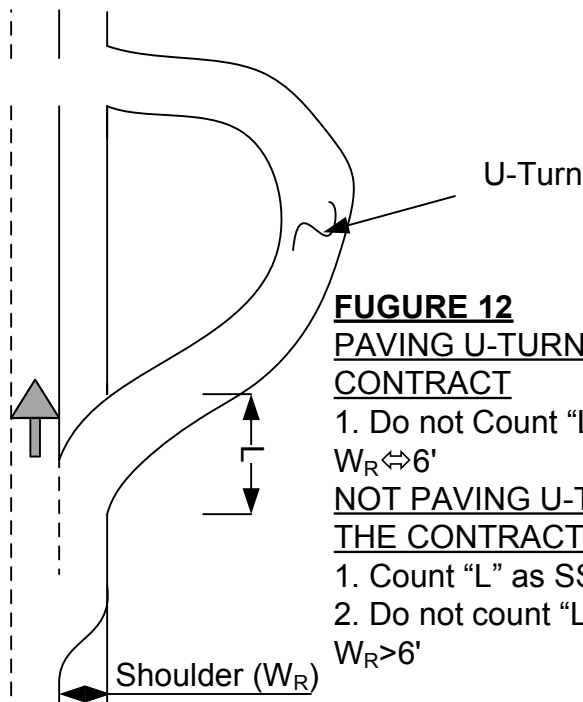
**RIGHT SHOULDER**

9. Count "SS" for lane 2, if  $W_R \leq 6'$ .
10. Do not Count "SS" for lane 2, if  $W_R > 6'$ .

**FIGURE 11 – CROSSING OVER LONGITUDINAL JOINT**



Count "L" for Lane 1 as SS.



**FIGURE 12**

**PAVING U-TURN UNDER THE CONTRACT**

1. Do not Count "L" as SS, if  $W_R \leq 6'$

**NOT PAVING U-TURN UNDER THE CONTRACT**

1. Count "L" as SS, if  $W_R < 6'$
2. Do not count "L" as SS, if  $W_R > 6'$

**NEW JERSEY DEPARTMENT OF TRANSPORTATION**

**PAVEMENT DESIGN**

**IMPEDIMENT EXCLUSIONS IN RIDE QUALITY SPECIFICATION 2010**

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