

2_10 APPLYING 2012 SHOULDER ROLLOVER STANDARDS

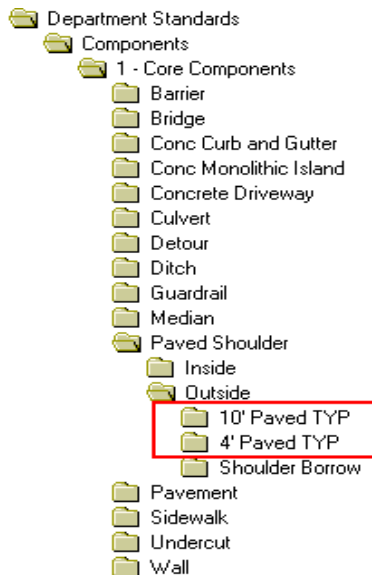
Question:

How are the new 2012 shoulder rollover standards applied on the templates?

Answer:

Shoulder rollover locks are applied in accordance with the 2012 Roadway Standard Drawings 560.02 (Method of Shoulder Construction). A simplified version used for corridor modeling templates has it broken out into two department categories:

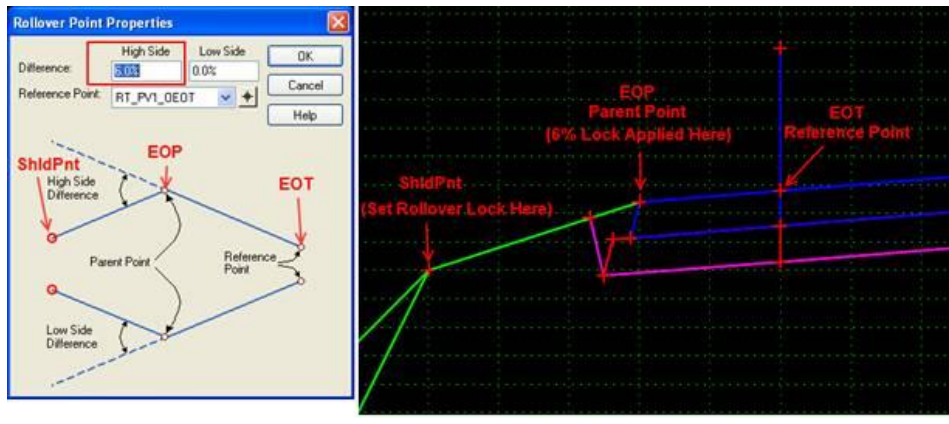
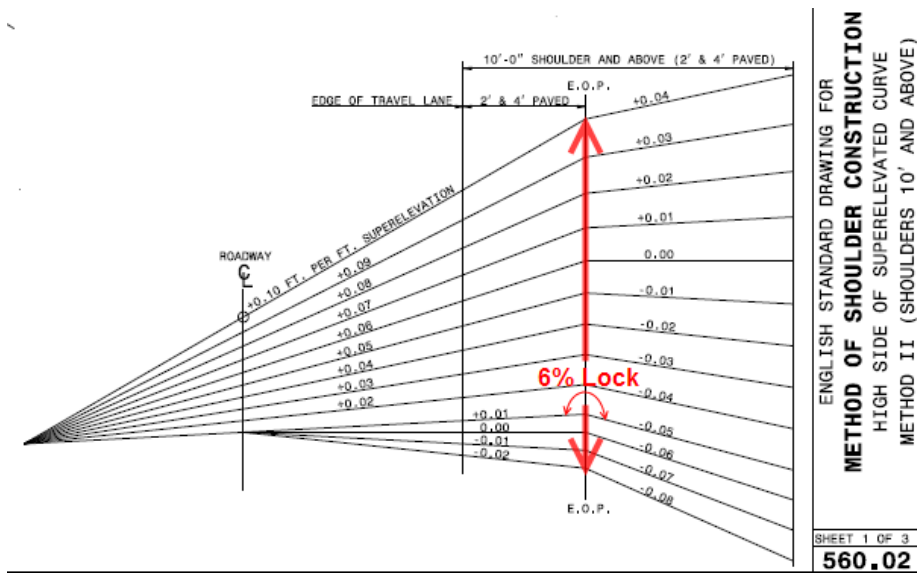
- 1) 4' Paved Shoulder (TYP)
- 2) 10' Paved Shoulder (TYP)



4' Paved Shoulder (TYP)

Because the paved shoulder width is fairly short, the same cross slope (super) is carried across the pavement onto the paved shoulder. The shoulder slope should break at the EOP (paved shoulder to turf shoulder) with a 6% rollover lock.

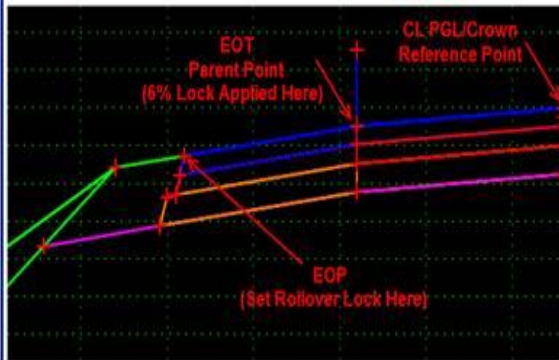
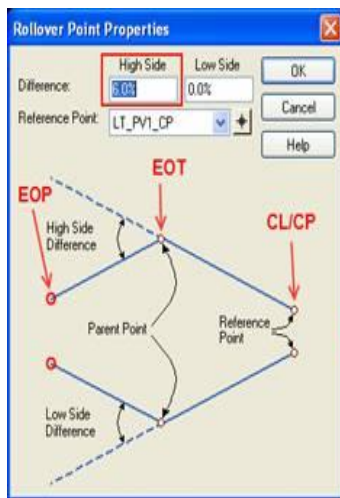
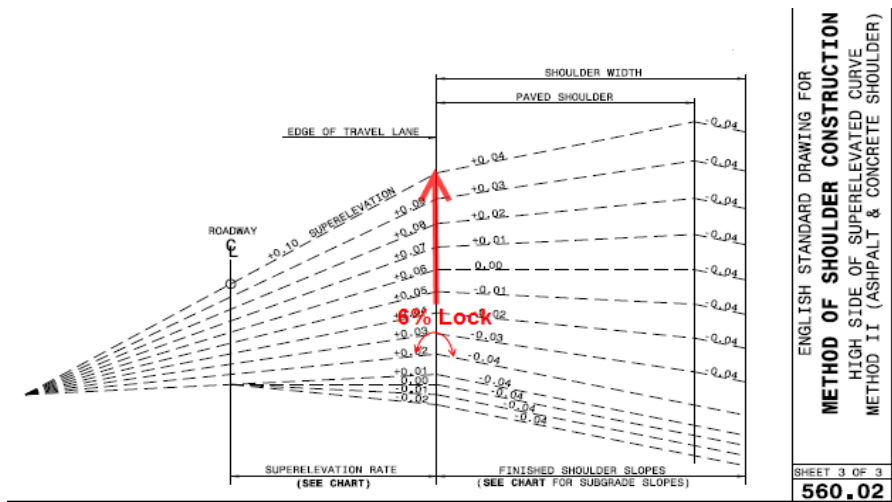
- Recommended use for 0' to 4' paved shoulder width (regardless of usable shoulder width).
- Complies with 2012 Roadway Standard Drawings 560.01 (Sheet 1 of 1) and 560.02 (Sheet 1 of 3).
- 6% Lock Applied at EOP Point High Side Only
- 0% Lock Applied at EOP Point Low Side Only. When super is less than -2%, maintain -8% or match the super whichever is less on remaining turf section.
- Rollover Point (to set the lock): ShldPnt (GS_OS_CTL)



10' Paved Shoulder (TYP)

Because the paved shoulder width is fairly wide, the shoulder slope should break at the EOT (pavement to paved shoulder) with a 6% rollover lock. A -4% slope is maintained on the remaining turf section of the shoulder.

- Recommended use for 10' and above paved shoulder or concrete shoulder (regardless of usable shoulder width).
- Complies with 2012 Roadway Standard Drawings 560.02 (Sheet 3 of 3).
- 6% Lock Applied at EOT Point High Side Only
- 0% Lock Applied at EOT Point Low Side Only. When super is less than +2%, maintain -4% or match the super whichever is less on remaining paved shoulder. -4% slope or paved shoulder slope, whichever is less, is maintained for the remaining turf section.
- Rollover Point (to set the lock): EOP (PS1_OEOP)



NOTE 1.

For paved shoulder widths between 5' to 9', at their discretion the Design Engineers may select which standard (4' or 10' TYP paved shoulder rollover) to follow for their project design criteria.

NOTE 2.

Standard Drawings 560.02 (Sheet 2 of 3) "Partial Depth Paved Shoulder" is being re-evaluated due to constructability issues. Shoulder rollover for this standard is not implemented currently.