US 58 Arterial Preservation Plan

Figure 1
Intersections & Median Crossovers
Mecklenburg County

I-# - Intersection #
C-# - Crossover #

Intersection 1: Pooles Mill Rd with US 58
Recommendation: Lengthen all existing turn lanes and construct eastbound right-turn lane on US 58.
Cost: $0.5M to $0.8M

Intersection 2: Carters Point Rd with US 58
Recommendation: Lengthen all existing turn lanes on US 58.
Cost: $0.5M to $0.8M

Crossover 1:
Recommendation: Lengthen all existing left-turn lanes on US 58.
Cost: $0.4M to $0.5M

Intersection 3: Tabernacle Rd with US 58
Recommendation: Lengthen all existing turn lanes on US 58. Construct eastbound right turn lane on US 58.
Cost: $0.5M to $0.8M

Crossover 2:
Recommendation: Lengthen all existing left-turn lanes on US 58.
Cost: $0.4M to $0.5M

Crossover 3:
Recommendation: Lengthen all existing left-turn lanes on US 58.
Cost: $0.4M to $0.5M
US 58 Arterial Preservation Plan
Figure 2
Intersections & Median Crossovers
Mecklenburg County

Intersection 4: Tabernacle Rd with US 58
Recommendation: Reconfigure intersection to directional median permitting left turns and U-Turns from westbound US 58. Lengthen existing westbound left-turn lane and construct eastbound right-turn lane on US 58
Cost: $0.4M to $0.6M

Intersection 5: Buffalo Springs Rd with US 58
Recommendation: Reconfigure intersection to directional median permitting left turns and U-Turns from eastbound US 58. Lengthen existing eastbound left-turn and westbound right-turn lanes on US 58
Cost: $0.4M to $0.6M

Intersection 6: Hite Dr with US 58
Recommendation: Lengthen all existing turn lanes and construct eastbound right-turn lane on US 58.
Cost: $0.5M to $0.8M

Intersection 7: Lake Ridge Dr with US 58
Recommendation: Lengthen all existing turn lanes and construct westbound right-turn lane on US 58.
Cost: $0.5M to $0.8M

Intersection 8: Cherry Hill Church Rd with US 58
Recommendation: Reconfigure intersection to directional median permitting left turns and U-Turns from westbound US 58. Lengthen existing westbound left-turn lane and construct eastbound right-turn lane on US 58
Cost: $0.4M to $0.6M

Intersection 9: Bull Rd with US 58
Recommendation: Lengthen all existing turn lanes and construct right-turn lanes on US 58.
Cost: $0.6M to $1.0M

Crossover 4:
Recommendation: Lengthen all existing turn lanes on US 58. Consolidate access along eastbound US 58.
Cost: $0.5M to $0.7M
Figure 3
Intersections & Median Crossovers
Mecklenburg County

Crossover 5:
Recommendation: Lengthen all existing left-turn lanes on US 58.
Cost: $0.4M to $0.5M

Crossover 6:
Recommendation: Lengthen all existing left-turn lanes on US 58.
Cost: $0.4M to $0.5M

Crossover 7:
Recommendation: Reconfigure crossover to directional median to permit lefts in only from eastbound US 58.
Construct westbound right-turn lane on US 58.
Cost: $0.4M to $0.5M

Intersection 10: Clarksville Rd with US 58
Recommendation: Lengthen all existing turn lanes and construct eastbound right-turn lane on US 58.
Cost: $0.5M to $0.8M

Intersection 11: Clarksville Rd with US 58
Recommendation: Reconfigure crossover to directional median to permit lefts in only from westbound US 58.
Construct eastbound right-turn lane on US 58.
Cost: $0.5M to $0.7M

Intersection 12: Pen Rd with US 58
Recommendation: Lengthen existing eastbound left-turn lane and construct right-turn lane on US 58.
Cost: $0.4M to $0.7M
US 58 Arterial Preservation Plan
Figure 4
Intersections & Median Crossovers
Mecklenburg County

<table>
<thead>
<tr>
<th>Crossover</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-8</td>
<td>Remove crossover.</td>
<td>$0.2M to $0.3M</td>
</tr>
</tbody>
</table>

Intersection 13: Greenhouse Dr with US 58
Recommendation: No Recommendation
Cost: Not Applicable

Intersection 14: Virginia Ave with US 58
Recommendation: See Figure 5
Cost: $1.1M to $1.4M
Route 58 Arterial Management Plan

Intersection #14: US 58 and Virginia Ave
Mecklenburg County

Recommendation:
Reconfigure main intersection of US 58 and Virginia Ave to Continuous Green-T (CGT). Reconstruct existing turn-lanes on US 58 to VDOT Design Standards. Improvements are required at Intersection 15, Noblin Farm Rd and US 58.

ROW Impacts: All improvements are within the ROW

Improvement Type: Safety, Travel Time Preservation

Traffic Operations & Safety:
- Traffic Operations: Reduced delay times for vehicles traveling eastbound on US 58 from Virginia Ave
- Safety: Reduced conflict points where vehicles cross paths. Reduced risk of angle crashes from Virginia Ave onto US 58

Cost: $1.1M to $1.4M
Intersections & Median Crossovers

Intersection 15: Noblin Farm Rd with US 58
Recommendation: Reconfigure intersection to right-in/right out only.
Cost: $0.1M to $0.2M

Intersection 16: Shiny Rock Rd with US 58
Recommendation: Reconfigure intersection to directional median to permit lefts in from eastbound and westbound US 58.
Cost: $0.3M to $0.4M

Crossover 9:
Recommendation: No recommendation
Cost: Not Applicable

Crossover 10:
Recommendation: No recommendation
Cost: Not Applicable
US 58 Arterial Preservation Plan
Figure 7
Intersections & Median Crossovers
Mecklenburg County

I-# - Intersection #
C-# - Crossover #

No Recommendation
Recommended Removal
Minor Improvement
Major Improvement

Intersection 17: Occoneechee Park Rd with US 58
Recommendation: Lengthen existing eastbound right turn lane on US 58.
Cost: Not Applicable

Crossover 11:
Recommendation: Construct westbound right turn lane on US 58.
Cost: $0.3M to $0.4M

Intersection 18: Commerce Dr with US 58
Recommendation: No recommendation
Cost: Not Applicable

Crossover 12:
Recommendation: Remove Crossover
Cost: $0.2M to $0.3M
US 58 Arterial Preservation Plan
Figure 8
Intersections & Median Crossovers
Mecklenburg County

I-# - Intersection #
C-# - Crossover #

Intersection 19: Tower Rd with US 58
Recommendation: Reconfigure crossover to directional median to permit lefts in only from westbound US 58.
Construct westbound right-turn lane on US 58.
Cost: $1.1M to $1.3M

Intersection 20: Chandler Rd with US 58
Recommendation: No recommendation
Cost: Not Applicable

Intersection 21: Chandler Rd with US 58
Recommendation: Reconfigure intersection to right-in/right-out only.
Cost: $0.3M to $0.4M

Intersection 22: Puryear's Rd with US 58
Recommendation: No recommendation
Cost: Not Applicable

Intersection 23: Wilkerson Rd with US 58
Recommendation: No recommendation
Cost: Not Applicable

Crossover 13:
Recommendation: No recommendation
Cost: Not Applicable

Crossover 14:
Recommendation: Remove crossover
Cost: Not Applicable
US 58 Arterial Preservation Plan
Figure 9
Intersections & Median Crossovers
Mecklenburg County

Crossover 15:
Recommendation: No recommendation
Cost: Not Applicable

Intersection 24: Rogers Rd with US 58
Recommendation: No recommendation
Cost: Not Applicable

Crossover 16:
Recommendation: No recommendation
Cost: Not Applicable

Intersection 25: Rogers Rd with US 58
Recommendation: Lengthen existing westbound right-turn lane on US 58
Cost: $0.1M to $0.2M

Crossover 17:
Recommendation: No recommendation
Cost: Not Applicable

Intersection 26: Rochichi Dr with US 58
Recommendation: No recommendation
Cost: Not Applicable
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Figure 10
Intersections & Median Crossovers
Mecklenburg County

Crossover 18:
Recommendation: No recommendation
Cost: Not Applicable

Intersection 27: Mayfield Dr with US 58
Recommendation: Reconfigure intersection to restricted crossing U-turn (RCUT). Construct U-turn area west of main intersection.
Cost: $3.5M to $4.6M

Intersection 28: Jefferson St with US 58
Recommendation: Reconfigure intersection to restricted crossing U-turn (RCUT). Reconfigure Crossover #19 to U-turn area.
Cost: $2.2M to $3.1M

Crossover 19:
Recommendation: Reconfigure crossover to U-turn area for Intersection #28. Permit eastbound US 58 left-turn movements.
Cost: See Intersection 28: Jefferson St with US 58

Crossover 20:
Recommendation: Reconfigure crossover to directional median to permit lefts in only from eastbound US 58.
Cost: $0.3M to $0.4M

Intersection 29: Skipwith Rd with US 58
Recommendation: Reconfigure intersection to restricted crossing U-turn (RCUT). Construct U-turn area east and west of main intersection.
Cost: $1.1M to $1.6M