

RESIDENTIAL ROADWAY (C-GC-60, C-GC-61 AND C-GC-65)

Residential roadways are classified as low volume, light duty traffic, with 20 year ADT projections less than 3,500 vehicles per day. Standard typical sections will be per the City's Thoroughfare Map and as further defined in Standard Drawings C-GC-60, C-GC-61 and C-GC-65.

Residential/Local Streets (C-GC-60) is a 26-ft pavement section with curb and gutter and a 50-ft right-of-way width. This section shall be used for short one to two block streets where on-street parking is not permitted.

Residential/Local Streets (C-GC-61) is a 32-ft pavement section with curb and gutter and a 60-ft right-of-way width. This section shall be used where residential streets connect to other residential streets, collector streets, secondary streets, or primary arterials.

Residential/Local Streets (C-GC-65) is a 28-ft pavement section with curb and gutter and a 60-ft right-of-way width. This section shall be used for short residential streets, loop drives, or dead end streets with a cul-de-sac where no future extensions are expected, and parking is permitted on one side of the street only.

Sub-grade specifications:

The Developer shall be required to submit to the City Engineer for review a traffic study showing a 20 year projection for Average Daily Traffic (ADT) for each of the proposed streets and a soils report showing a soaked California Bearing Ratio (CBR) result for each of the proposed streets with the plan submission. The sub-grade CBR must be 4 or above as established by a Geotechnical Engineer's report. CBR values less than 4 (or which fail a proof roll) will require undercut with granular replacement or soil stabilization in addition to the pavement sections shown below. Sub grade preparation shall be in accordance with ODOT 201, 203 and 204.

Residential Pavement Options:

The following pavement options are available for roadways meeting the residential street specifications as stated above. The pavement option shall not vary between parts, phases or sections of a subdivision or development area.

Option 1: Flexible Pavement Section composed of the following:

- 204 Subgrade Compaction
- 304 Aggregate Base - 6-in
- 301 Asphalt Concrete Base - 5-in
- 407 Tack Coat
- 441 Asphalt Concrete Intermediate Course, Type 1, (448), T - 1.75-in
- 407 Tack Coat
- 441 Asphalt Concrete Surface Course, Type 1, (448) PG 64-22, T - 1.25-in

Option 2: Composite Pavement Section composed of the following:

- 304 Aggregate Base - 4-in
- 305* Portland Cement Concrete Base - 7-in (dowels not required at transverse joints)
- 407 Tack Coat
- 441 Asphalt Concrete Intermediate Course, Type 1, (448), T -1.75-in
- 407 Tack Coat
- 441 Asphalt Concrete Surface Course, Type 1, (448), PG 64-22, T -1.25-in
- 409** Sawing & Sealing AC Pavement Joints-along centerline and all transverse joints
- 454 Pavement Relief Joints

*Item 305 may be installed as Roller-Compacted Concrete using CMSC supplemental specification 1523. A submittal will be required and a test strip constructed prior to construction of this alternate.

**Concrete expansion joints per C-GC-59 shall be placed as approved on plans or directed by the City Engineer.

Note: This does not imply that RCC pavements are accepted as meeting CMSC supplemental specification 1523 for any other City of Grove City Street where CMSC Item 305 is specified.

<p>Approved By:</p>  <p>City Engineer, EMH&T Inc</p>  <p>City Service Director</p>	<p>STANDARD DIMENSIONS FOR</p> <p>PAVEMENT DESIGN SPECIFICATIONS FOR PUBLIC STREETS</p>	<p>CITY OF GROVE CITY, OHIO</p>		
		<p>STANDARD CONSTRUCTION DRAWING</p>		
<p>Revised February 2019</p>	<p>Sheet 1/2</p>	<p>Drawing No. C-GC-90</p>		

COLLECTOR(C-GC-62)/MINOR ARTERIAL (C-GC-63)/PRINCIPAL ARTERIAL (C-GC-64)

Collector, Minor Arterial and Principal Arterial streets are identified on the City’s Thoroughfare Map dated October 28, 2010. Standard typical sections will be based on the respective standard drawings.

Collector Streets (C-GC-62) have a curb and gutter and a 70-ft right-of-way width. This section shall be used on streets identified as Collector Streets on the Thoroughfare Map or as determined by the City.

Minor Arterial Streets (C-GC-63) have a 44-ft pavement section with curb and gutter and an 80-ft right-of-way width. This section shall be used on streets identified as Minor Arterial Streets on the Thoroughfare Map or as determined by the City.

Principal Arterial Streets (C-GC-64) have a 68-ft pavement section with curb and gutter and a 100-ft right-of-way width. This section shall be used on streets identified as a Principal Arterial Streets on the Thoroughfare Map or as determined by the City.

Collector, Minor Arterial and Principal Arterial Roadway Pavement Options:
The Developer is required to submit a traffic study showing a 20 year projection for ADT’s for each proposed street along with a soils report showing a soaked CBR result with the draft plan submission. The City Engineer will then determine the pavement section requirements based on the current ODOT pavement design methods and specifications and provide this to the Developer.

Short extensions to existing roadways will not require this analysis. The existing pavement section will be used for the extension provided the subgrade passes a proof roll as observed by The City Engineer.

GENERAL PAVEMENT REQUIREMENTS FOR ALL ROADWAYS

Testing and Acceptance:
Prior to acceptance of pavement, the City Engineer will perform core samples every 200’ to verify thickness and material compliance. Pavement thickness as stated above or provided by the City Engineer shall be considered a minimum requirement. Maximum acceptable tolerance is 1/2” for under performance of the entire pavement section thickness and/or any component thereof.
No credit will be given for cores which exceed the minimum requirements.

The City will not accept pavement sections that fail to meet the minimum requirements of thickness and/or are not in conformance with the applicable City of Columbus or ODOT specifications. Unacceptable pavement sections must be removed and replaced from the lip of curb to lip of curb. All saw cuts must be a neat and straight line cut perpendicular to the direction of travel at each end.

Applicability:
This policy will be applied to all proposed residential developments submitting for plan review.

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<p>STANDARD CONSTRUCTION DRAWING</p>		<p>Revised February 2019</p>	<p>Sheet 2/2</p>	<p>Drawing No. C-GC-90</p>