



City of Clayton  
10 N. Bemiston  
Clayton, MO 63105

Public Works Department

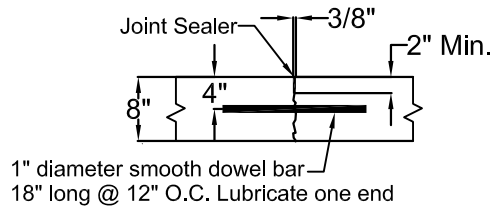
Public Right-of-Way  
Standard Details

July 2012

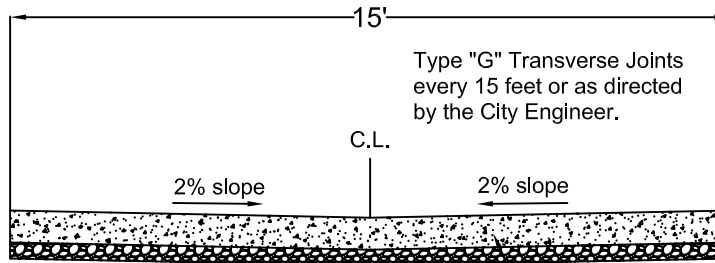
## Standard Details List

- SD-1**      15' Alley Cross Section  
              20' Alley Cross Section
- SD-2 A**     Asphalt Pavement Excavation Repair Detail with Utility  
              Trench
- SD-2 B**     Concrete Pavement Excavation Repair Detail with Utility  
              Trench
  
- SD-3 A**     Asphalt Pavement Excavation Repair Detail
- SD-3B**     Concrete Pavement Excavation Repair Detail
  
- SD-4**      Driveway Approach & Sidewalk Specifications (No Tree  
              Lawn)
- SD-5**      Driveway Approach & Sidewalk Specifications (With Tree  
              Lawn)
- SD-6**      Driveway Approach Specifications (No Sidewalk)
- SD-7**      Curb & Gutter Specification (2" Asphalt Overlay)
- SD-8**      Curb & Gutter Specification (Microsurfaced)
- SD-9**      Granite Curb Specification (2" Asphalt Overlay)
- SD-10**     Rolled Curb Specification (Microsurfaced)
- SD-11**     Sidewalk Detail (New Construction)
- SD-12**     Concrete Paver Crosswalk Detail (Central Business District)

### Type "G" Joint



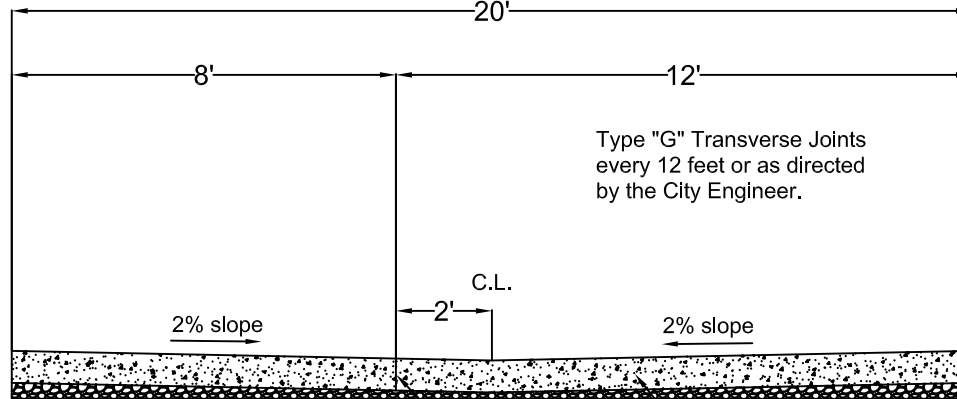
### Cross Section of 15' Alley



Install 4" Type 1 Agg. Base

Install 8" Concrete Pavement

### Cross Section of 20' Alley



Install 4" Type 1 Agg. Base

Install 8" Concrete Pavement

Type "G" Longitudinal Joint

#### SPECIFICATIONS:

- 1) Concrete shall be 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
- 2) Approaches shall be 8" thick over 4" of compacted limestone (1" minus).
- 3) Curing shall be accomplished by spraying Type 2 curing compound at the rate of 200 S.F. per gallon.
- 4) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.



CITY OF CLAYTON  
STANDARD DETAILS

Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW

Drawn By: CAK

Drawing Scale: 1"=4'

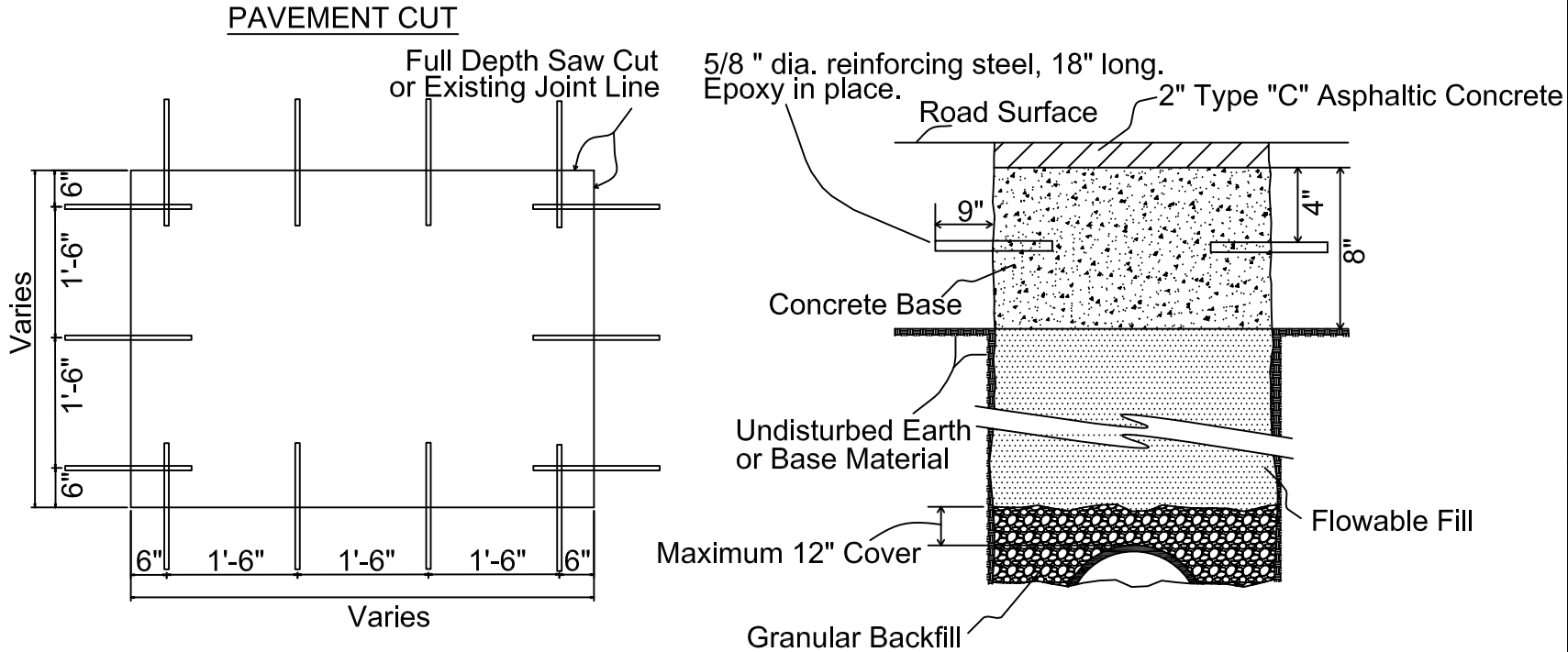
Drawing Number:

SD-1

# ASPHALT PAVEMENT EXCAVATION REPAIR DETAIL WITH UTILITY TRENCH



CITY OF CLAYTON  
STANDARD DETAILS



1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximum size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
2. 2" thick Type "C" Asphaltic Concrete overlay. Both air temperature and surface temperatures shall be above 40 degrees F. Minimum temperature for asphalt during installation shall be 225 degrees F. Minimum 98% compaction required.
3. Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.

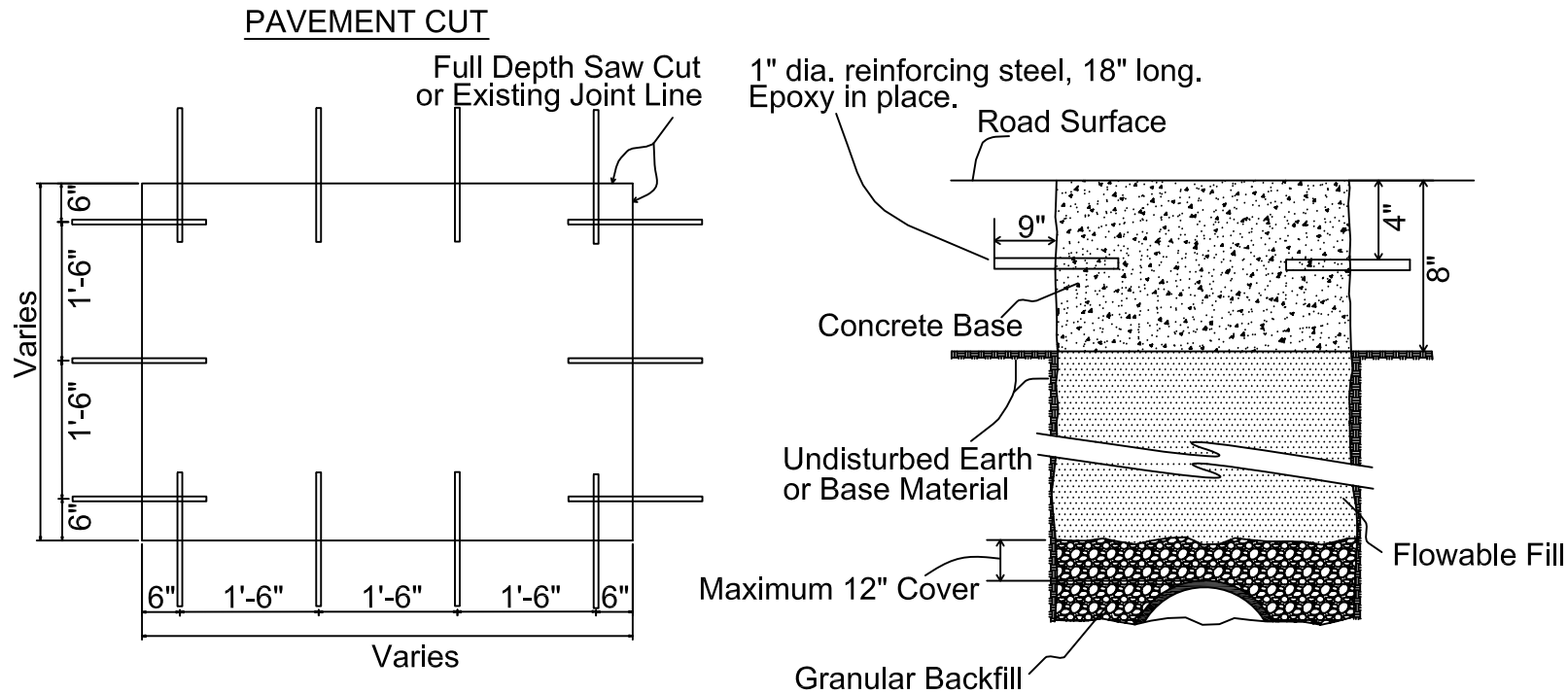
Revisions	Name	Date
	STANDARD DETAILS UPDATE	03/29/2011
	STANDARD DETAILS UPDATE	10/11/2011
	STANDARD DETAILS UPDATE	07/24/2012

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: NO SCALE  
 Drawing Number:

SD-2A

# CONCRETE PAVEMENT EXCAVATION REPAIR DETAIL WITH UTILITY TRENCH

CITY OF CLAYTON  
STANDARD DETAILS



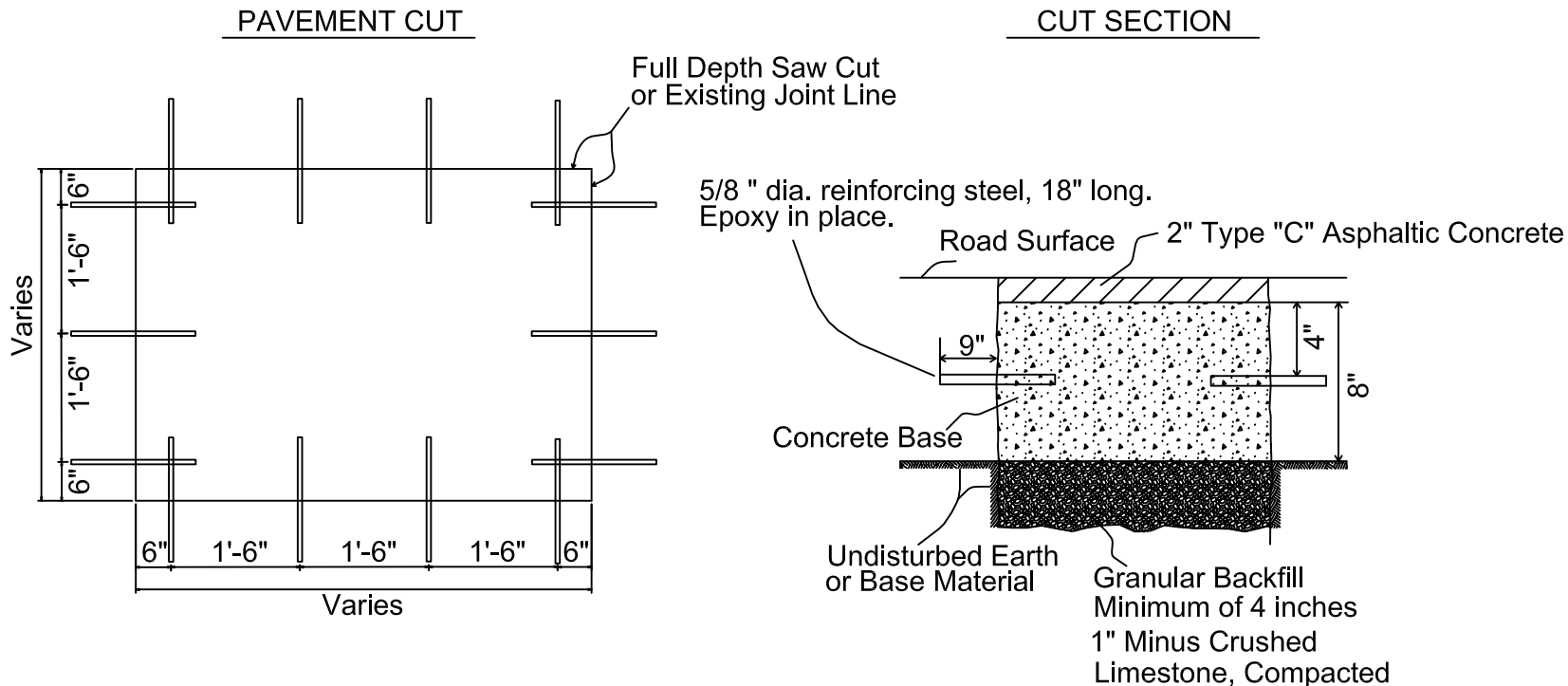
1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximum size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
2. All exposed concrete must be a full slab replacement to the full depth joint.
3. Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.

Revisions	Date	Name
	03/29/2011	STANDARD DETAILS UPDATE
	10/11/2011	STANDARD DETAILS UPDATE
	07/24/2012	STANDARD DETAILS UPDATE

Checked By: JW  
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 Drawing Scale: NO SCALE  
 Drawing Number:

SD-2B

## ASPHALT PAVEMENT EXCAVATION REPAIR DETAIL



CITY OF CLAYTON  
STANDARD DETAILS

Revisions	Date	Name
	03/29/2011	STANDARD DETAILS UPDATE
	10/11/2011	STANDARD DETAILS UPDATE
	07/24/2012	STANDARD DETAILS UPDATE

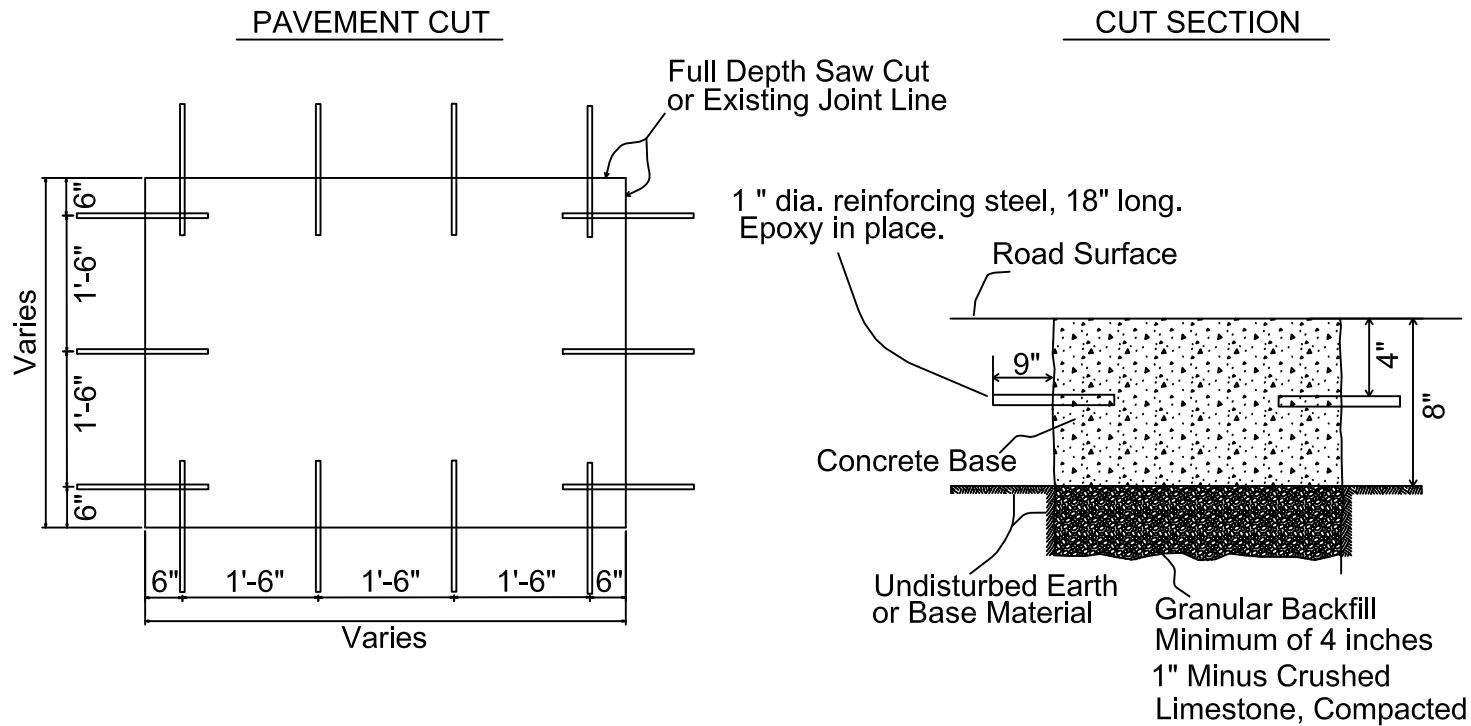
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 Drawing Number:

SD-3A

1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximum size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
2. 2" thick Type "C" Asphaltic Concrete overlay. Both air temperature and surface temperatures shall be above 40 degrees F. Minimum temperature for asphalt during installation shall be 225 degrees F. Minimum 98% compaction required.
3. Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.

## CONCRETE PAVEMENT EXCAVATION REPAIR DETAIL

CITY OF CLAYTON  
STANDARD DETAILS



1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximum size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
2. All exposed concrete must be a full slab replacement to the full depth joint.
3. Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.

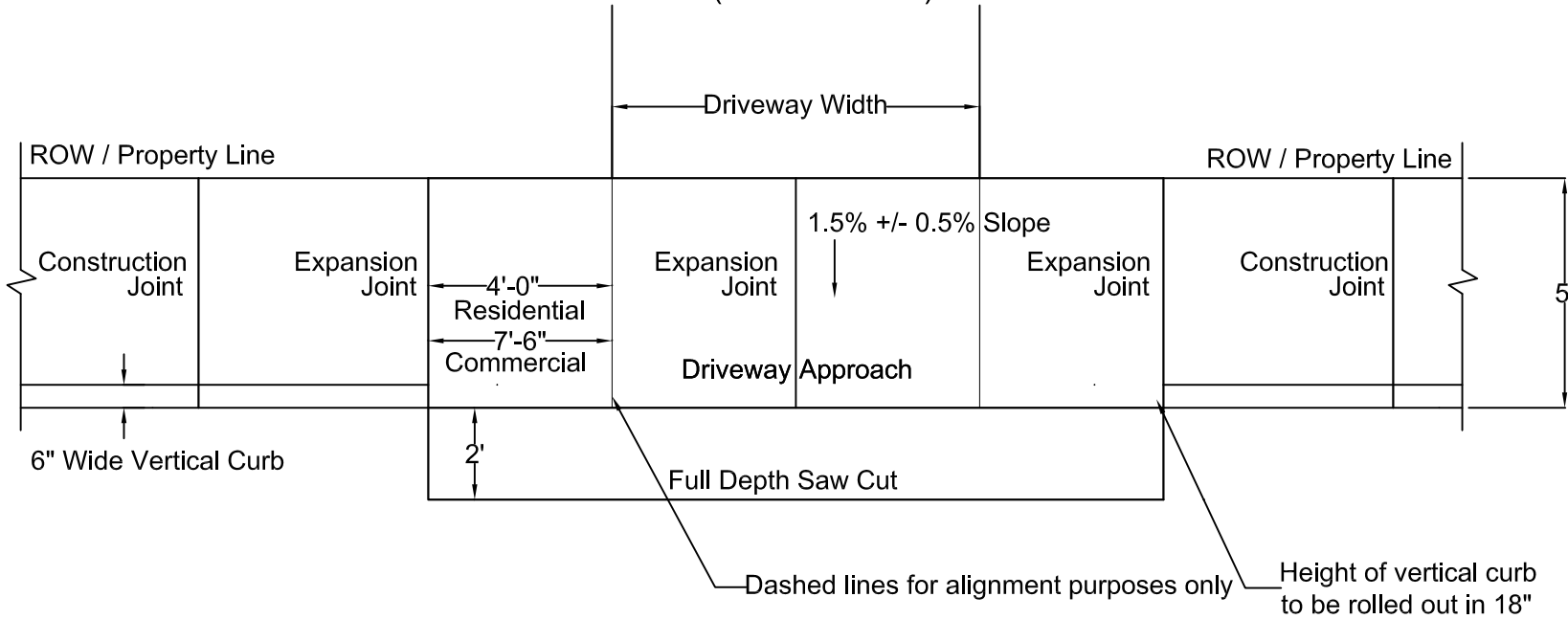
Revisions	Date	Name
	03/29/2011	STANDARD DETAILS UPDATE
	10/11/2011	STANDARD DETAILS UPDATE
	07/24/2012	STANDARD DETAILS UPDATE

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: NO SCALE  
 Drawing Number:

SD - 3B

# Driveway Approach & Sidewalk Specifications

(No Tree Lawn)



CITY OF CLAYTON  
STANDARD DETAILS

## SPECIFICATIONS:

- 1) Concrete shall be a 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3,500 psi in 3 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR SHALL MATCH EXISTING.
- 2) Driveway approaches shall be 6" thick (residential) or 8" thick (commercial) concrete over 4" of compacted limestone (1" minus).
- 3) The thickness of the first section of sidewalk on each side of the entrance shall be increased to match the driveway approach pavement thickness (6").
- 4) Sidewalks shall be a min. 5" thick with expansion joints at 15' max. spacing and control joints at 5' intervals.
- 5) Expansion joints will be 1/2" premolded and extend from subgrade to 1/2" below top of finished surface. The upper 1/2" shall be open and edges of new concrete shall be rounded to 1/4" radii.
- 6) Streetside face of approach shall be approximately 3/4" above finished pavement grade.
- 7) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 8) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete for inspection.

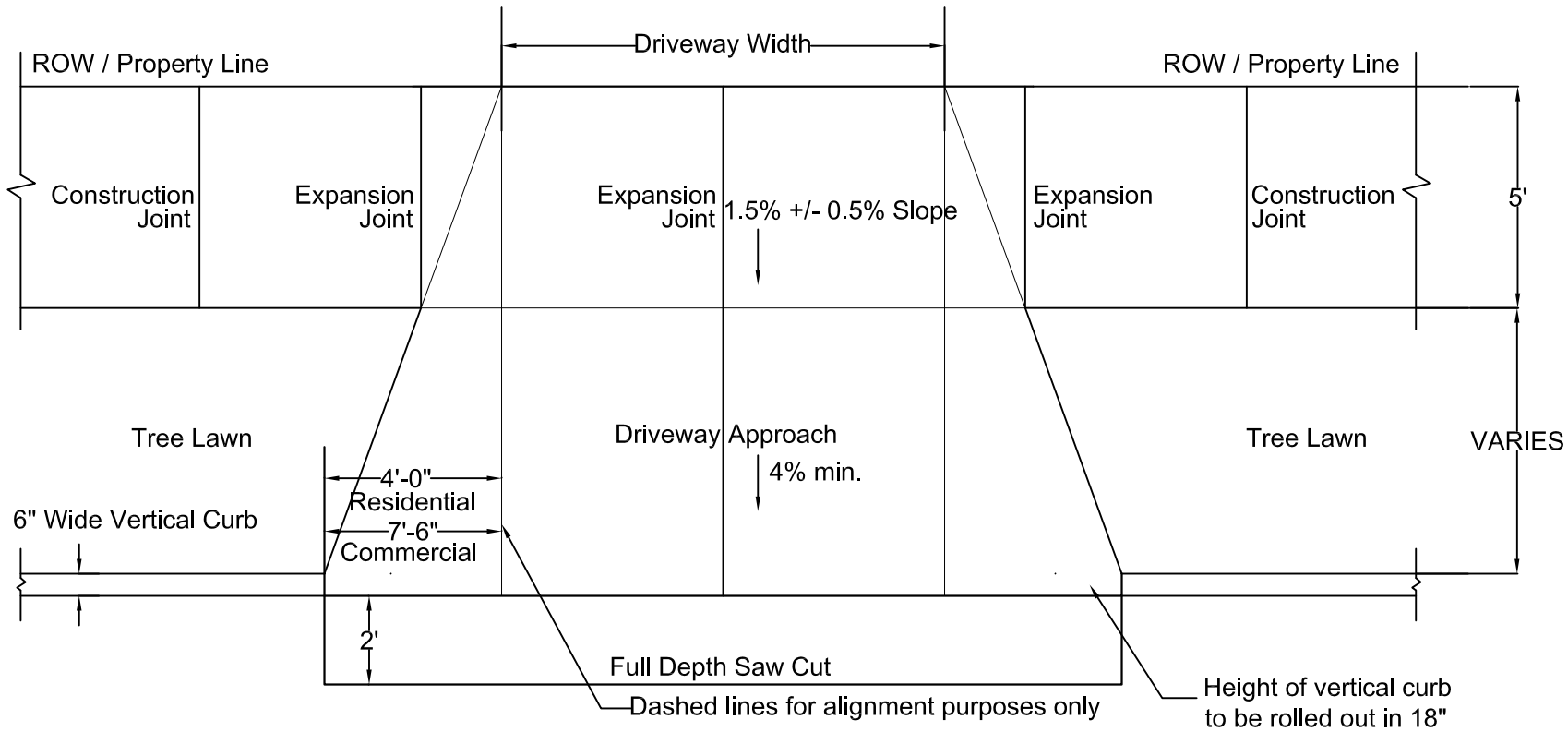
Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: 1"=4'  
 Drawing Number:

SD-4



# Driveway Approach & Sidewalk Specifications



CITY OF CLAYTON  
STANDARD DETAILS

## SPECIFICATIONS:

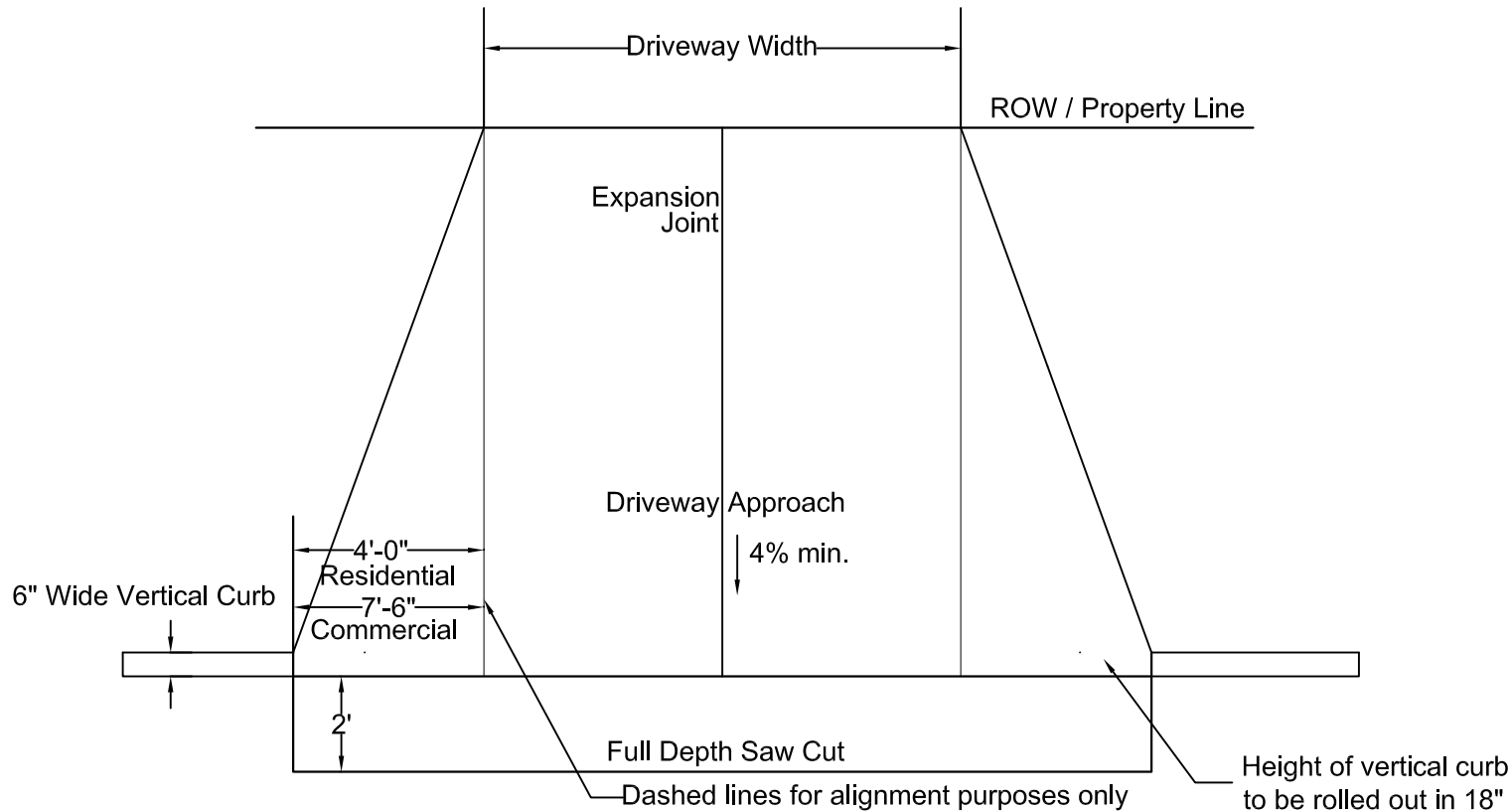
- 1) Concrete shall be a 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3,500 psi in 3 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR SHALL MATCH EXISTING.
- 2) Driveway approaches shall be 6" thick (residential) or 8" thick (commercial) concrete over 4" of compacted limestone (1" minus).
- 3) The thickness of the first section of sidewalk on each side of the entrance shall be increased to match the driveway approach pavement thickness.
- 4) Sidewalks shall be a min. 5" thick with expansion joints at 15' max. spacing and control joints at 5' intervals.
- 5) Expansion joints will be 1/2" premolded and extend from subgrade to 1/2" below top of finished surface. The upper 1/2" shall be open and edges of new concrete shall be rounded to 1/4" radii.
- 6) Streetside face of approach shall be approximately 3/4" above finished pavement grade.
- 7) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 8) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete for inspection.

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	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: 1'=4'  
 Drawing Number:

SD-5

# Driveway Approach Specifications (No Sidewalk)



## SPECIFICATIONS:

- 1) Concrete shall be a 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3,500 psi in 3 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR SHALL MATCH EXISTING.
- 2) Driveway approaches shall be 6" thick (residential) or 8" thick (commercial) concrete over 4" of compacted limestone (1" minus).
- 3) Expansion joints will be 1/2" premolded and extend from subgrade to 1/2" below top of finished surface. The upper 1/2" shall be open and edges of new concrete shall be rounded to 1/4" radii.
- 4) Streetside face of approach shall be approximately 3/4" above finished pavement grade.
- 5) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 6) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete for inspection.



CITY OF CLAYTON  
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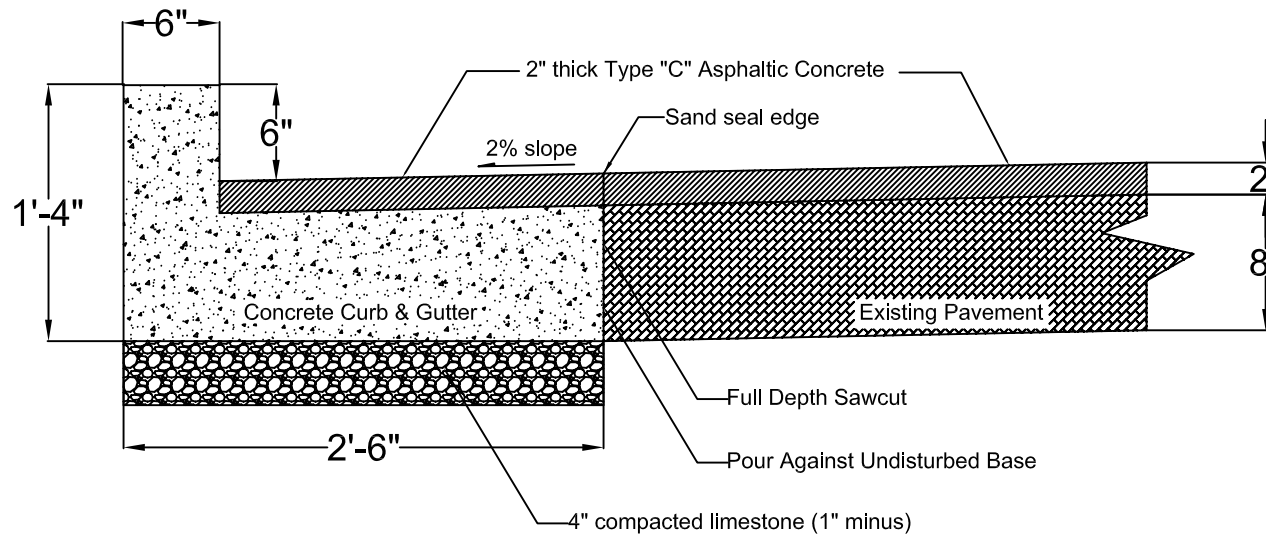
Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: 1"=4'  
 Drawing Number:

SD-6

# CURB & GUTTER SPECIFICATION

(2" Asphalt Overlay)



CITY OF CLAYTON  
STANDARD DETAILS

## SPECIFICATIONS:

- 1) Concrete shall be 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3500 p.s.i. in 3 days, and shall have 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR OF CURB SHALL MATCH EXISTING.
- 2) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 3) 2" thick Type "C" Asphaltic Concrete overlay. Both air temperature and surface temperatures shall be above 40 degrees F. Minimum temperature for asphalt during installation shall be 225 degrees F. Minimum 98% compaction required.
- 4) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete or laying asphalt for inspection.

Revisions	Date	Name
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	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW

Drawn By: CAK

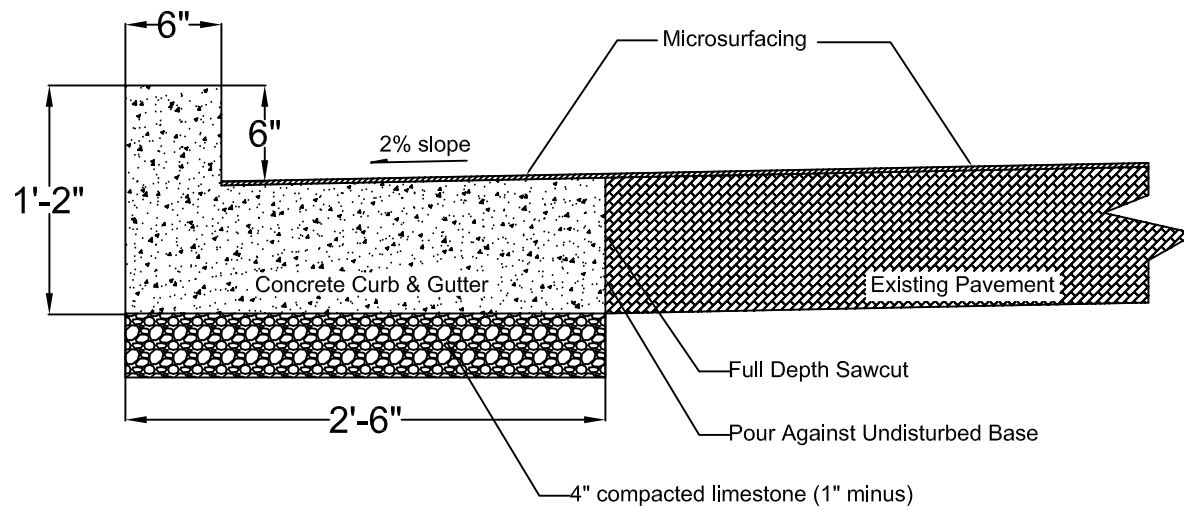
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Drawing Number:

SD-7

## CURB & GUTTER SPECIFICATION

(Microsurfaced)



### SPECIFICATIONS:

- 1) Concrete shall be 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3500 p.s.i. in 3 days, and shall have 3.5" +/- 0.5" slump max. permitted, 4%-7% air entrained. COLOR OF CURB SHALL MATCH EXISTING.
- 2) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 3) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete or laying asphalt for inspection.

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STANDARD DETAILS

Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
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	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW

Drawn By: CAK

Drawing Scale: 1"=3'

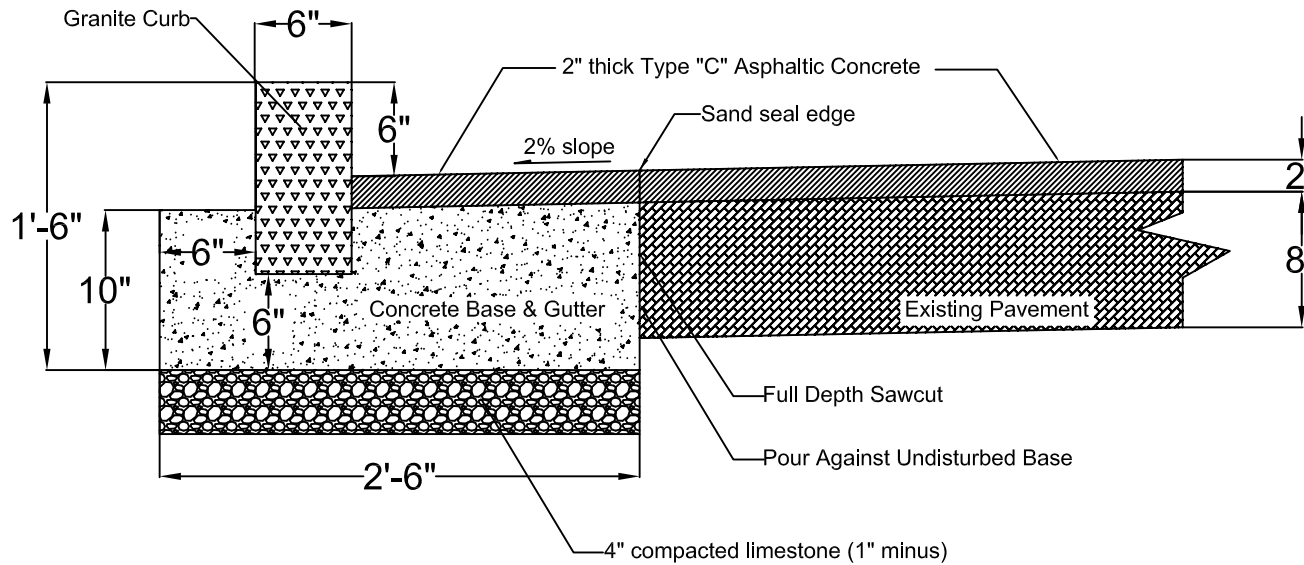
Drawing Number:

SD-8

# GRANITE CURB SPECIFICATION

(2" Asphalt Overlay)

CITY OF CLAYTON  
STANDARD DETAILS



## SPECIFICATIONS:

- 1) Concrete shall be 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3500 p.s.i. in 3 days, and shall have 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
- 2) Tuckpoint joints between granite curb sections
- 3) All granite curb is the property of the City of Clayton. It is to be salvaged and reused. Unused, salvaged granite curb is to be delivered to 8300 Shaw Park Drive. Contact Public Works at 290-8540 to schedule delivery.
- 4) Additional granite curb can be purchased from Cold Spring Granite Co., 202 S. 3rd Ave., Cold Spring, MN 56320. 1-800-328-7038. Material ID: Rockville (white & black) or Carnelian (red & black)
- 5) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete or laying asphalt for inspection.

Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

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Drawn By: CAK

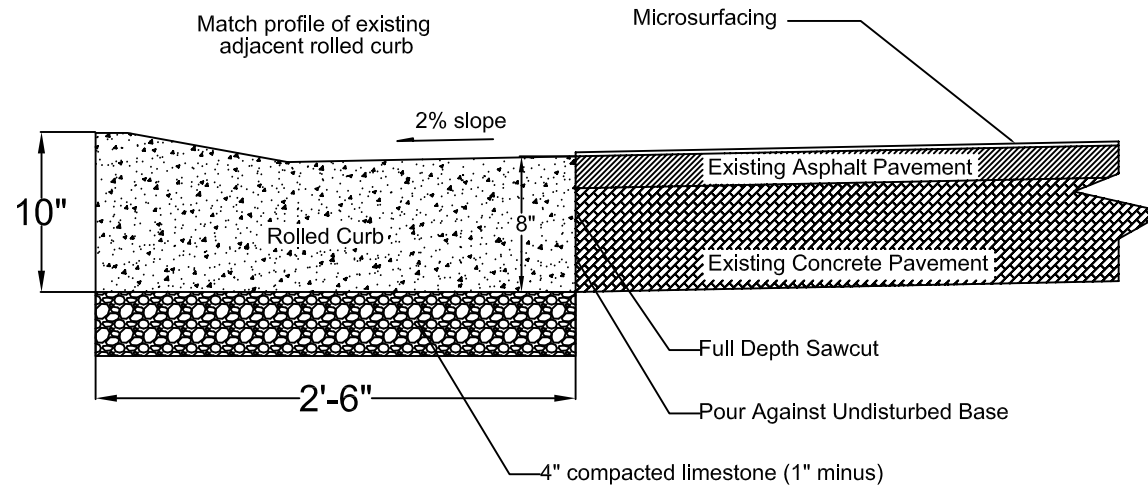
Drawing Scale: 1"=3"

Drawing Number:

SD-9

## ROLLED CURB SPECIFICATION

(Microsurfaced)



### SPECIFICATIONS:

- 1) Concrete shall be 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3500 p.s.i. in 3 days, and shall have 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR OF CURB SHALL MATCH EXISTING.
- 2) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 3) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete or laying asphalt for inspection.

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STANDARD DETAILS

Revisions	Date	Name
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	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW

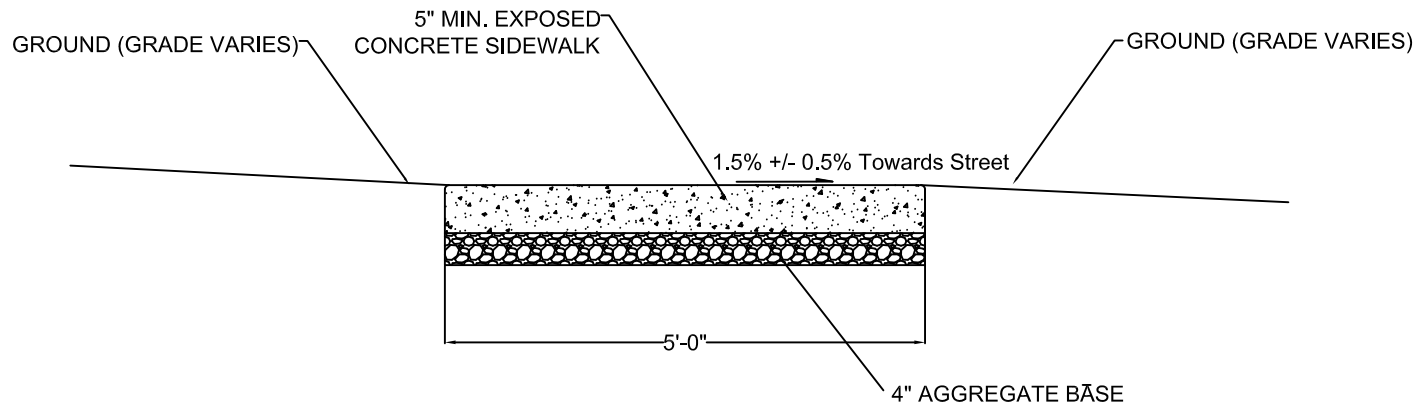
Drawn By: CAK

Drawing Scale: 1"=3'

Drawing Number:

SD-10

## SIDEWALK DETAIL



### SPECIFICATIONS:

- 1) Concrete shall be 6-sack mix with Meramec sand and gravel (max. size 1"), and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR AND TEXTURE OF SIDEWALK SHALL MATCH EXISTING.
- 2) Curing shall be accomplished by spraying Type 1-D curing compound at the rate of 200 S.F. per gallon.
- 3) Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring concrete for inspection.
- 4) Sidewalks shall be a min. 5" thick with expansion joints at 15' max. spacing and control joints at 5' intervals.
- 5) Expansion joints will be 1/2" premolded and extend from subgrade to 1/2" below top of finished surface. The upper 1/2" shall be open and edges of new concrete shall be rounded to 1/4" radii.

Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

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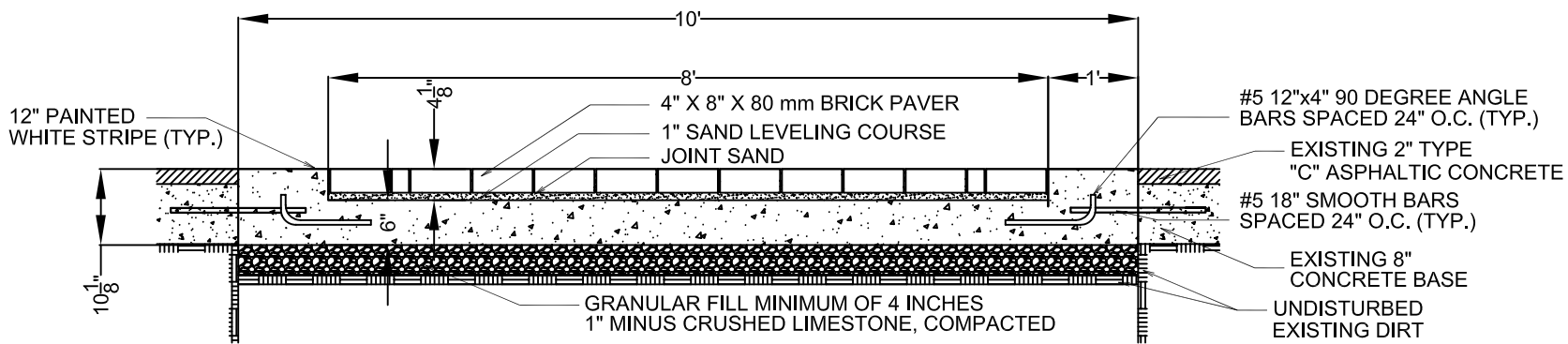
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Drawing Number:

SD-11

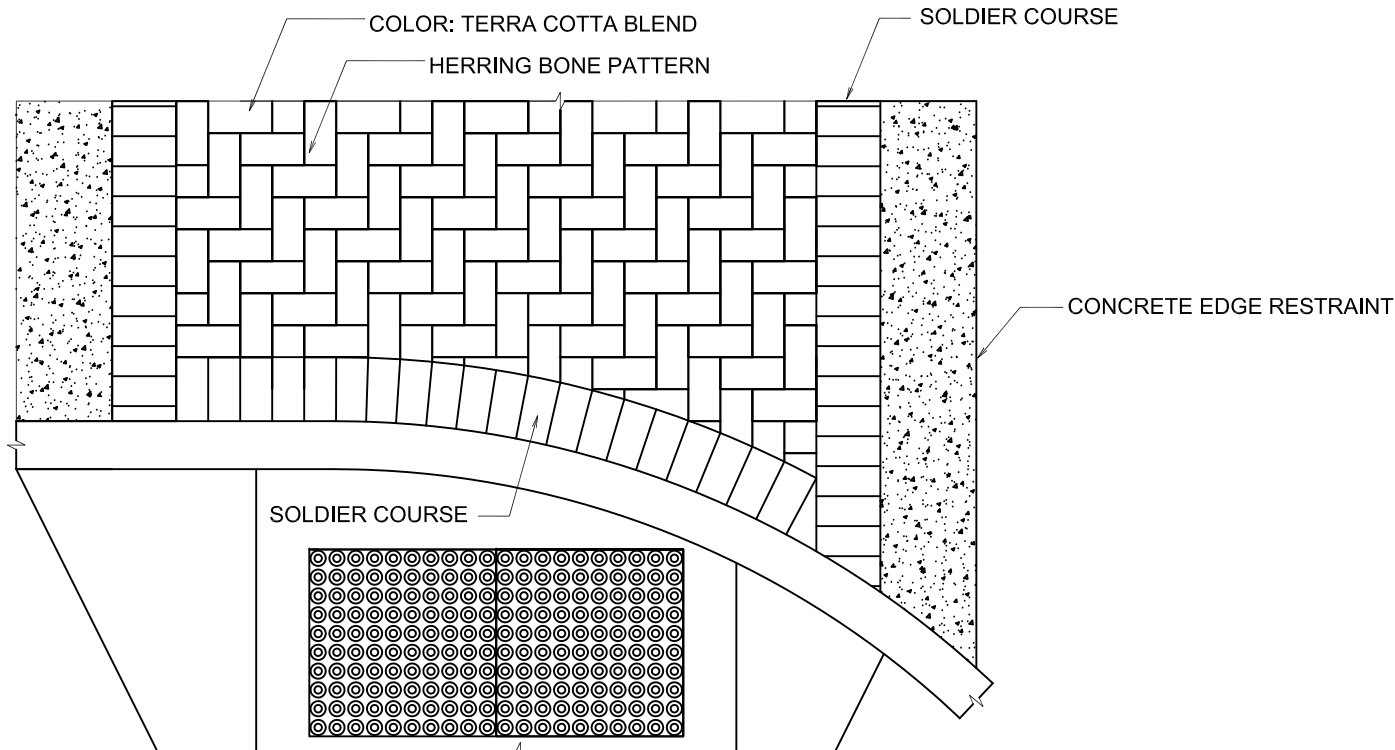
# CONCRETE PAVER CROSSWALK DETAIL



CONCRETE SHALL BE A 10 1/2 SACK MIX WITH MERAMEC SAND AND GRAVEL (MAXIMUM SIZE 1") WITH ON-SITE CALCIUM ADDITION, SHALL ATTAIN A STRENGTH OF 2,000 PSI IN 4 HOURS AND 4,500 PSI IN 28 DAYS, AND SHALL HAVE A 3.5" +/- 0.5" SLUMP, 4%-7% AIR ENTRAINMENT.

CONCRETE CONTROL JOINTS SHALL BE DETERMINED BY THE CITY ENGINEER.

## CROSS SECTION



## SOLDIER COURSE EDGE WITH HERRING BONE PATTERN



CITY OF CLAYTON  
STANDARD DETAILS

Revisions	Date	Name
	03/29/2011	STANDARD DETAILS UPDATE
	10/11/2011	STANDARD DETAILS UPDATE
	07/24/2012	STANDARD DETAILS UPDATE

Checked By: JW  
 Drawn By: CAK  
 Drawing Scale: 1/2"=1'  
 Drawing Number:

SD-12