

City of Clayton 10 N. Bemiston Clayton, MO 63105

Public Works Department

Public Right-of-Way Standard Details

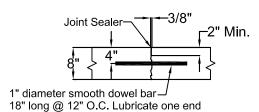
July 2012

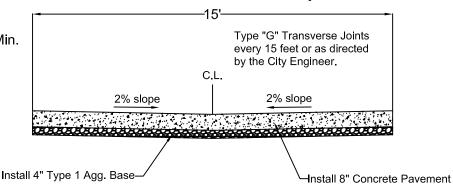
Standard Details List

SD-1	15' Alley Cross Section
	20' Alley Cross Section
SD-2A	Asphalt Pavement Excavation Repair Detail with Utility
	Trench
SD-2B	Concrete Pavement Excavation Repair Detail with Utility
	Trench
SD-3 A	Asphalt Pavement Excavation Repair Detail
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SD-4	Driveway Approach & Sidewalk Specifications (No Tree
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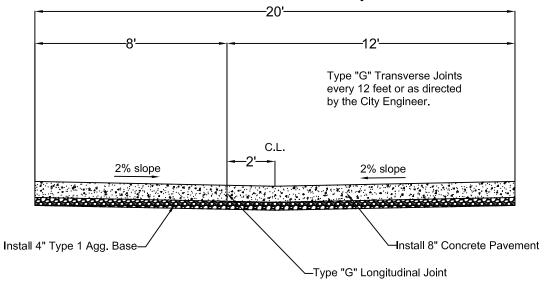
Type "G" Joint

Cross Section of 15' Alley





Cross Section of 20' Alley



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.



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ASPHALT PAVEMENT EXCAVATION REPAIR DETAIL WITH UTILITY TRENCH



CITY OF CLAYTON TANDARD DETAILS

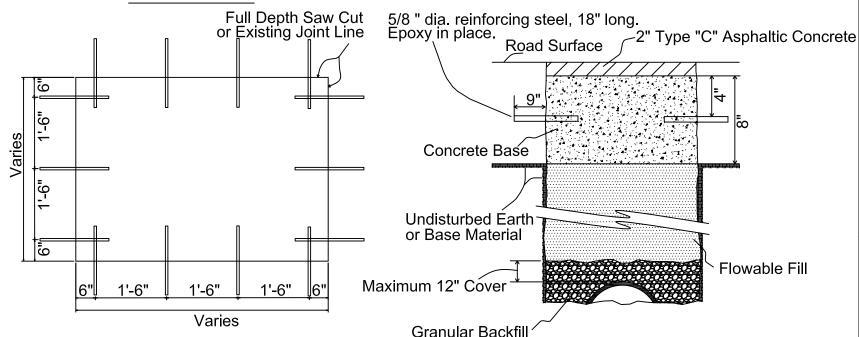
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SD-2A

PAVEMENT CUT



- 1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximun 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 WITH UTILITY TRENCH

PAVEMENT CUT Full Depth Saw Cut 1" dia. reinforcing steel, 18" long. or Existing Joint Line Epoxy in place. Road Surface ō 4 1-6 Varies Concrete Base <u>.</u>9 **Undisturbed Earth** or Base Material 6 Flowable Fill Maximum 12" Cover

Granular Backfill

- 1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximun 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.

1'-6"

1'-6"

1'-6"

Varies

3. Contractor shall notify Public Works (290-8540) 24 hours in advance of pouring for inspection.



CITY OF CLAYTON STANDARD DETAILS

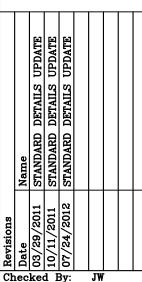
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ASPHALT PAVEMENT EXCAVATION REPAIR DETAIL



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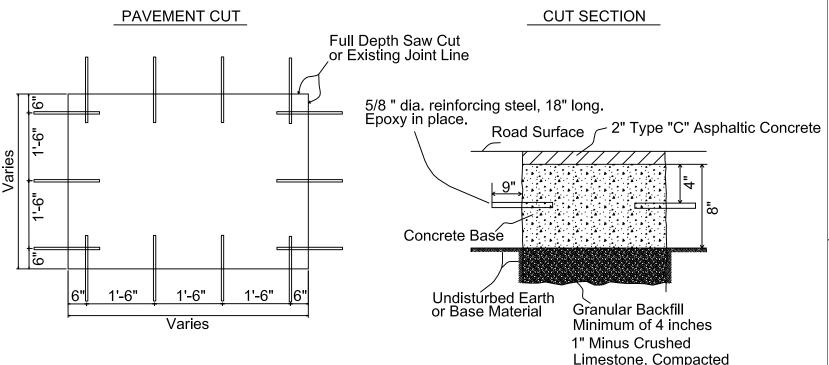


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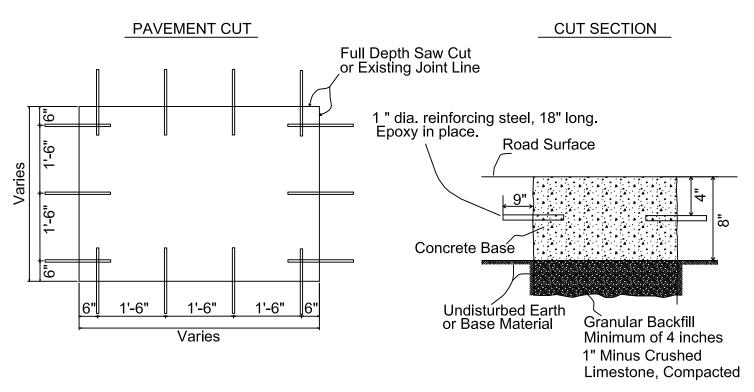
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SD-3A



- 1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximun 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



- 1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximun 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.



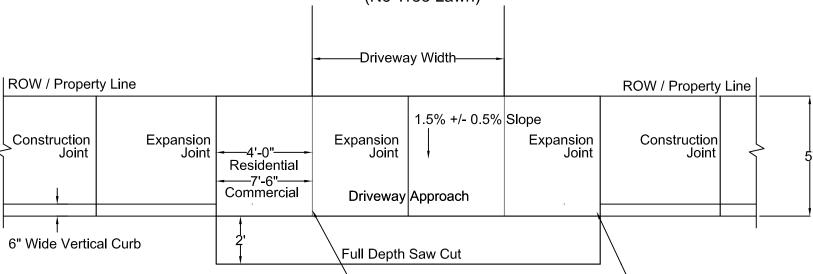
CITY OF CLAYTON STANDARD DETAILS

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Driveway Approach & Sidewalk Specifications

(No Tree Lawn)



STANDARD DETAILS

Height of vertical curb

to be rolled out in 18"

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").

Dashed lines for alignment purposes only

- 4) Sidewalks shall be a min. 5" thick with expansion joins 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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Driveway Approach & Sidewalk Specifications -Driveway Width-**ROW / Property Line ROW / Property Line** Expansion Expansion Joint 1.5% +/- 0.5% Slope Expansion Construction Construction **Joint** Joint Joint Joint Driveway Approach Tree Lawn Tree Lawn VARIES 4% min. 4'-0" Residential 6" Wide Vertical Curb -7'-6" Commercial Full Depth Saw Cut Height of vertical curb -Dashed lines for alignment purposes only to be rolled out in 18"

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 joins 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.



CITY OF CLAYTON STANDARD DETAILS

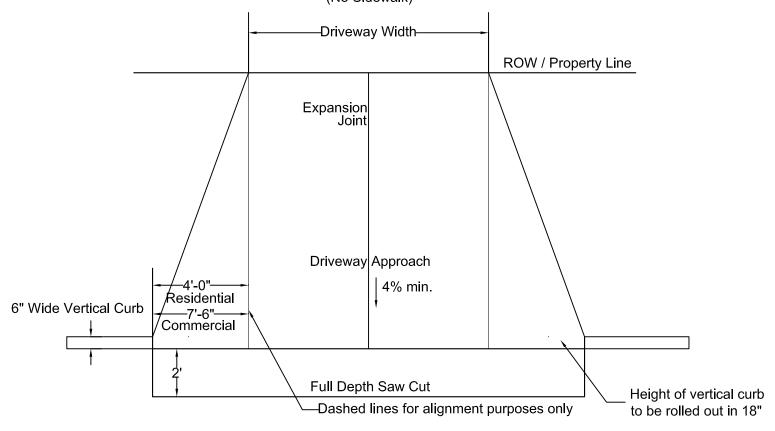
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Driveway Approach Specifications (No Sidewalk)



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 STANDARD DETAILS

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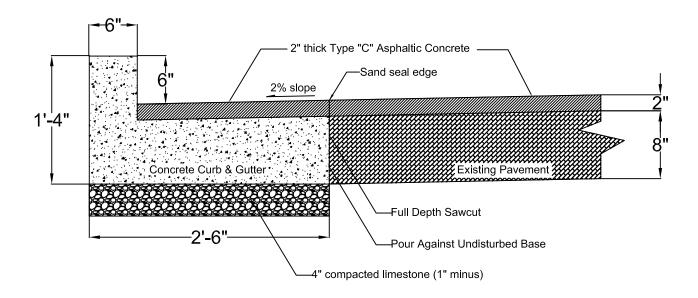
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SD-6

CURB & GUTTER SPECIFICATION

(2" Asphalt Overlay)



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.



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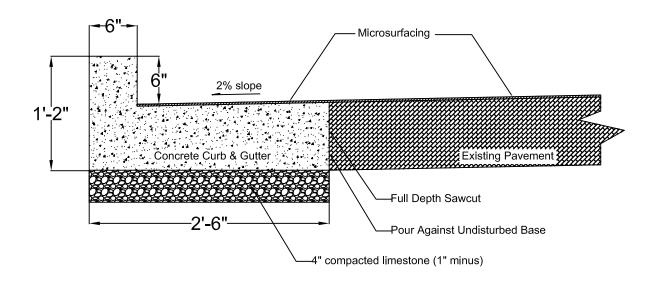
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1"=3'

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.



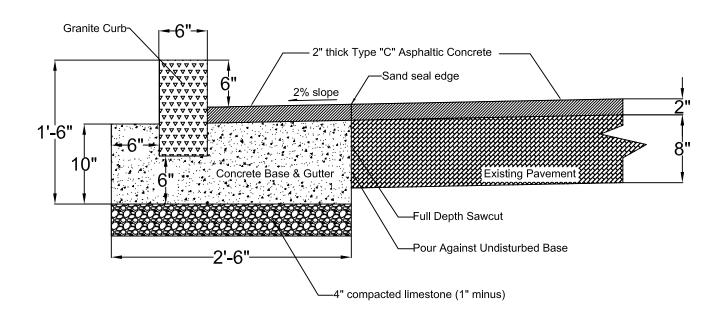
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GRANITE CURB SPECIFICATION

(2" Asphalt Overlay)



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.



CITY OF CLAYTON

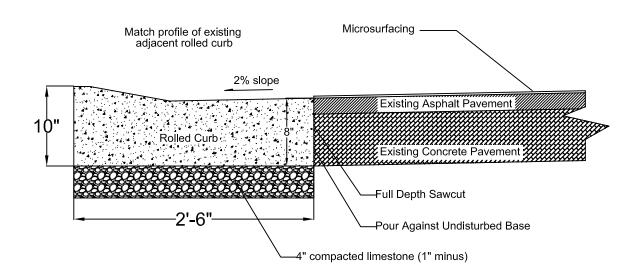
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ROLLED CURB SPECIFICATION

(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.



CITY OF CLAYTON

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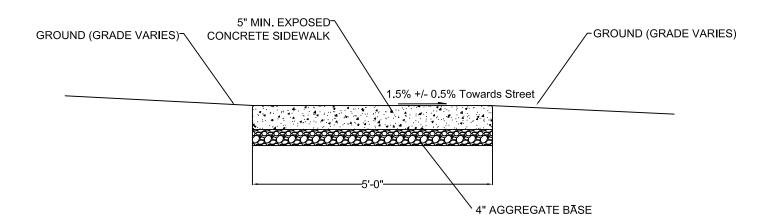


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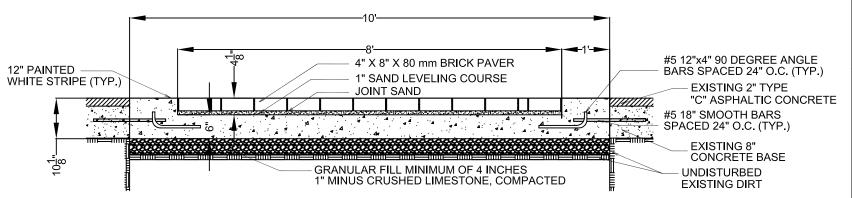
SIDEWALK DETAIL



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 joins 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.

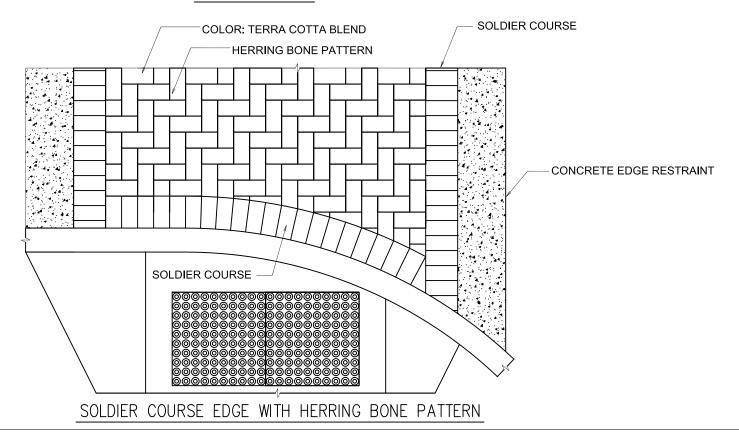
CONCRETE PAVER CROSSWALK DETAIL



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 ENTRAINED.

CONCRETE CONTROL JOINTS SHALL BE DETERMINED BY THE CITY ENGINEER.

CROSS SECTION





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