



RIGHT-OF-WAY ACTIVITY INFORMATION SHEET

Department of Public Works

10 N. Bemiston Ave. • Clayton, Missouri 63105 • Phone (314) 290-8540 • Fax (314) 863-0296

“What You Need To Know When Performing Activities In The City of Clayton Public Right-of-Way”

The *Public Right-of-Way* (aka ROW) is the area typically defined by the back of sidewalk on either side of the roadway. But because locations of ROW differ on a roadway by roadway basis, it is always to verify the location of the ROW prior to performing any activity in or adjacent to it. Any activity (work, runs, walks, celebrations, etc.) to occur in the ROW that is not a typical use (i.e. driving a vehicle on the road, walking on the sidewalk, parking in a permitted on-street parking zone, etc.) requires a Right-Of-Way Activity Permit (aka ROWAP). When there is an activity that is to occur in the City of Clayton ROW, there are several standards that are intended to protect the safety of all ROW Users and shall be adhered to. This is a step by step guide to performing activity in the City of Clayton ROW.

Submitting the Application

- 1) *The Department of Public Works will not accept applications that have not been properly completed.*
- 2) *The Department of Public Works shall not accept applications from applicants with prior permits in poor standing.*
- 3) The “**Applicant**” is the person or company applying for and receiving the ROWAP. The Applicant is ultimately responsible for all work or activity associated with the ROWAP.
- 4) It is the applicant’s responsibility to contact the Missouri One Call System 1-800-DIG-RITE (800-344-7483) or 811 or www.mocall.com for all permits that include excavation. *The Department of Public Works will not accept applications that do not have a Missouri One Call ticket number listed.*
- 5) The “**Contact**” is the person whom the City may contact 24 hours a day, 7 days a week in cases of an emergency. Typically, this is the superintendent on the job site.
- 6) If the Applicant is installing “**New Facilities**” such as fiber optics, cable, conduit, pipe or other facilities, the owner of the “New Facilities” shall be listed on the application as the “**Provider**”. If the “Provider” is not a registered Facilities-Based Service Provider, a ROWAP cannot be issued. All companies seeking registration with the City of Clayton are to notify the City Clerk in writing at the above address.
- 7) The Applicant is to list all subcontractors that will work under the Applicant’s ROW Activity Permit. All work performed by subcontractors will be covered under the Applicant’s bond. *The Applicant and each subcontractor are required to submit a separate Certificate of Insurance. (see item 4 of Issuance of Permit section below)*
- 8) The Applicant shall measure the total length of all saw cutting of any asphalt pavement (the perimeter of the patch) and list it on the application under “**Total Length of Saw Cut**”.
- 9) The Applicant shall submit with the application five (5) copies of a site plan showing the nature of proposed work. A site plan shall include location of the proposed work with dimensions of its proximity to the curb, sidewalk, streetlights, street trees and other facilities that may be impacted. Please submit plans folded to a maximum size of 8 ½” x 14”.

- 10) If the proposed activity would impact any driving lanes, the Applicant shall submit with the application five (5) copies of a **Traffic Control Plan**. All traffic lanes, including parking lanes shall be shown on the plan as well as all proposed traffic control devices. **All traffic plans shall be in conformance with the latest version of Part VI of the Manual of Uniform Traffic Control Devices (MUTCD)**. Please submit plans folded to a maximum size of 8 ½” x 14”.
- 11) If the proposed activity in the ROW requires **blocking access to meter parking spaces, an Application for Parking Meter Rental is required**. Each meter rents at \$20 per day.
- 12) **Permit Fees:**
 - Application Fee (non-refundable).....\$50.00
 - Inspection Fee \$25.00 per inspection
 - Amendment Fee (time extensions, change to plans, etc.)\$50.00 + \$10.00 per page

Example of Costs based on Type of ROW Work Permit:

- Non-Excavation (i.e. crane lift, lane or roadway closure, etc.)\$100.00
(application fee plus 2 inspections)
- Excavation.....\$200.00
(application fee plus 6 inspections)
- Major Development\$50.00 + (\$25.00 x # inspections)
(application fee plus inspections)
- All additional inspections for all of the above \$25.00 each

Application Review

- 1) Review of applications requires a minimum of 2 days.
- 2) Applicant may be contacted for additional information or revised plans if needed for Public Works Department to a clear understanding of the activity/work to take place in ROW.
- 3) Upon final review of the application, a copy of the **Right-of-Way Activity Review Form**, which may have additional requirements to the proposed activity/work, will be attached to and considered part of the ROWAP.

Issuance of Permit

- 1) The Public Works Department shall notify the applicant when the application has been approved and identify all fees, bonds and certificates of insurance required to issue the ROWAP.
- 2) **Degradation Fee:** The fee charged by the City to recover the costs associated with a decrease in the useful life of any paved ROW caused by excavation or other disturbance. The Degradation Fee shall not apply to concrete slabs or curbs, which shall be replaced rather than restored. This fee is computed using the “*Total Length of Saw Cut*” submitted on the application as follows:

$$(\text{“Total Length of Saw Cut”}) \times (\text{Number of Years To Next Overlay}) \times (\$1.25)$$
 If the actual total length of the saw cut after completion of the work exceeds the “Total Length of Saw Cut” by five (5) feet or more, the Degradation Fee shall be increased accordingly. The applicant shall be responsible for all additional costs associated with the Degradation Fee.
- 3) **Performance and Maintenance Bond:** a bond in the City’s favor to ensure the restoration of the ROW shall be submitted prior to the issuance of the ROWAP. **The bond shall continue in full force and effect for a period of twelve (12) months following completion of the work. It is the responsibility of the applicant to request the release of the bond in writing.** The bond shall be issued by a surety with an “A” or better rating of insurance in Best's Key Rating Guide, Property/Casualty Edition, shall be subject to the approval of the City Attorney and shall contain the following endorsement:

"This bond may not be cancelled, or allowed to lapse, until sixty (60) days after receipt by the City, by certified mail, return receipt requested, of a written notice from the issuer of the bond of intent to cancel or not to renew."

- 4) **Certificate of Insurance:** All ROW Users shall maintain, for the duration of any ROWAP the following minimum liability insurance coverage: worker's compensation and employer liability insurance to meet all requirements of Missouri law and commercial general liability insurance with respect to the construction, operation, and maintenance of the Facilities, and the conduct of the ROW User's business in the City, in the minimum amounts of:
- (1) \$2,600,000 for property damage resulting from any one accident;
 - (2) \$2,600,000 for personal bodily injury or death resulting from any one accident;
 - (3) \$2,600,000 for all other types of liability.
- All insurance policies shall be with sureties qualified to do business in the State of Missouri, with an "A" or better rating of insurance by Best's Key Rating Guide, Property/Casualty Edition. All general liability insurance policies shall name ***"The City, its officers, boards, board members, commissions, commissioners, agents, and employees as additional insureds"*** and shall further provide that any cancellation or reduction in coverage shall not be effective unless thirty (30) days prior written notice thereof has been given to the City Clerk.
- 5) ***The issued permit shall be on the job site at all times.***
- 6) ***Upon issuance of a ROWAP, the Department of Public Works shall be notified at (314) 290-8540 at least 48 hours prior to commencing work for streetlight cable and traffic signal cable locates. These cables are owned by the city. Locates of city facilities are valid for two weeks from the date of locate.***

Inspections & Standards for Work

- 1) Working hours are from 7 a.m. to 6 p.m. Monday through Friday. Lane drops shall not be set up prior to 9 a.m. and shall be removed no later than 4 p.m. without specific approval by the Public Works Department.
- 2) Streets, alleys and sidewalks shall not to be blocked to traffic without specific approval by the Public Works Department.
- 3) The applicant shall be responsible for the setup, maintenance and removal of all traffic control devices per the approved traffic control plan.
- 4) Street cuts may not be permitted during the months of December, January, February and March except on an emergency basis.
- 5) The City does not allow stock piling of any material or equipment storage in the ROW. It is the applicant's responsibility to keep the job site clean and free of debris at all times.
- 6) Arterial and Urban Collector streets such as Brentwood Blvd. and Maryland Rd. have specific time restrictions when activity/work is permitted to occur. Check the Right-of-Way Activity Review Form.
- 7) All plumbing inspections are made by the Planning and Development Department and should be contacted at (314) 290-0452.
- 8) If an excavation is being made in the vicinity of a tree located in the public ROW, the Public Works Department shall be contacted prior to starting excavation to discuss and execute options that minimize the impact of the excavation on the health of the tree.
- 9) All new facilities (i.e. conduit, pipes, manholes, etc.) shall be installed in the utility corridor located between the curb and the parking lane (8 ft from the face of curb). ROW Users shall avoid placing infrastructure under sidewalks, curb ramps and street trees.

- 10) All access structures permitted in streets, alleys and approaches shall meet or exceed St. Louis County standards for manholes. The manhole shall have the name of the owner or type of facility permanently stamped on the cover.
- 11) All access structures permitted in the sidewalk shall use a Quauzite Composolite “PG” style service box or equivalent to be approved by the Public Works Department. No access points shall be permit in the pedestrian access route (aka PAR). The service box shall have the name of the owner or type of facility permanently stamped on the cover.
- 12) **All work in the Downtown Clayton between the curb and edge of ROW shall meet City of Clayton Streetscape Standards. Copies are available on the City’s Website at www.claytonmo.gov/rowdesignstandards.**
- 13) Utility locates are required for all excavation work. The number to call for locating utilities is **1-800-DIG-RITE** or **811** or www.mo1call.com. A ROWAP must be issued before the Public Works Department will mark City owned utilities including street lighting, irrigation, and traffic signals. The following industry standard colors codes shall be used for identifying underground utilities:

Red	Street Lighting (Electric)
Yellow	Gas-Oil-Steam
Orange	Communication - CATV
Blue	Water
Green	Sewer
Fluorescent Pink	Temporary Survey Markings
White	Proposed Excavation
Purple	Irrigation Lines (Reclaimed Water)

The applicant shall not begin or continue to excavate if the markings are no longer visible or have been dug up. The contractor shall call in to have the utilities re-located.

- 14) **For Street Excavations:** (see detail attached to the back of this document)
 - (1) **ALL EXCAVATIONS SHALL BE SAW CUT FULL DEPTH.**
 - (2) Fill/Subgrade material shall be flowable fill only. **Aggregate backfill is not acceptable.** Clean aggregate maybe used around utilities to maximum of 1 foot of cover with permission from the City Engineer. Subgrade elevation shall be ten (10) inches below existing pavement grade. **INSPECTION REQUIRED.**
 - (3) Base Pavement shall be a minimum eight (8) inches of 8-½ sack PCC. Base elevation shall be two (2) inches below existing pavement grade. If there is an existing concrete base, the patched area shall be doweled into existing concrete base. See attached detail. **INSPECTION REQUIRED.**
 - (4) Pavement Wearing Surface material shall be two (2) inches of County “C” ACC. All saw cuts shall be squared up with vertical edges prior to paving. **INSPECTION REQUIRED.**
 - (5) Edges of the patch shall be sealed with SS1 or equal product.
- 15) **For Tree Lawn Area (between sidewalk and curb) Excavations:**
 - (1) Fill material shall be topsoil, mechanically compacted in one (1) foot lifts.
 - (2) The area should be slightly heaped to compensate for settling. **INSPECTION REQUIRED.**
 - (3) The seed/sod, to be determined by the Public Works Department, shall match surrounding lawn.
 - (4) Excess dirt shall be hauled away by the applicant.

16) For Sidewalk Excavations:

- (1) Fill/Subgrade material shall be topsoil, mechanically compacted in one (1) foot lifts.
- (2) Base material shall be 1" minus crushed limestone, mechanically compacted and installed as needed to bring the elevation within 5 (five) inches of pavement grade.
- (3) Rigid, non-warped concrete forms are to be used to set up the sidewalk area for pouring.
- (3) ***INSPECTION REQUIRED.***
- (4) Wearing Surface material shall be five (5) inches of 6 sack Meramec sand & gravel concrete to match the adjacent pavement as close as possible. Fiber expansion joints are to be installed every fifteen (15) feet with control joints being grooved every five (5) feet. ***INSPECTION REQUIRED.***
- (5) Sealer shall be non-yellowing acrylic curing and sealing compound.

17) For Driveway Approach Excavations:

- (1) See City of Clayton ROW Design Standards or approved site plan for details and specifications.
- (2) ***INSPECTION REQUIRED*** for subgrade, form work, and concrete pour.

18) For Curb Excavations:

- (1) See City of Clayton ROW Design Standards or approved site plan for details and specifications.
- (2) ***INSPECTION REQUIRED*** for subgrade, form work, and concrete pour.

19) FINAL INSPECTION FOR ALL WORK:

After all disturbed ROW has been restored and cleaned up; a final inspection is required to close the permit.

Notes for Figure 6H-28—Typical Application 28

Sidewalk Detour or Diversion

Standard:

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

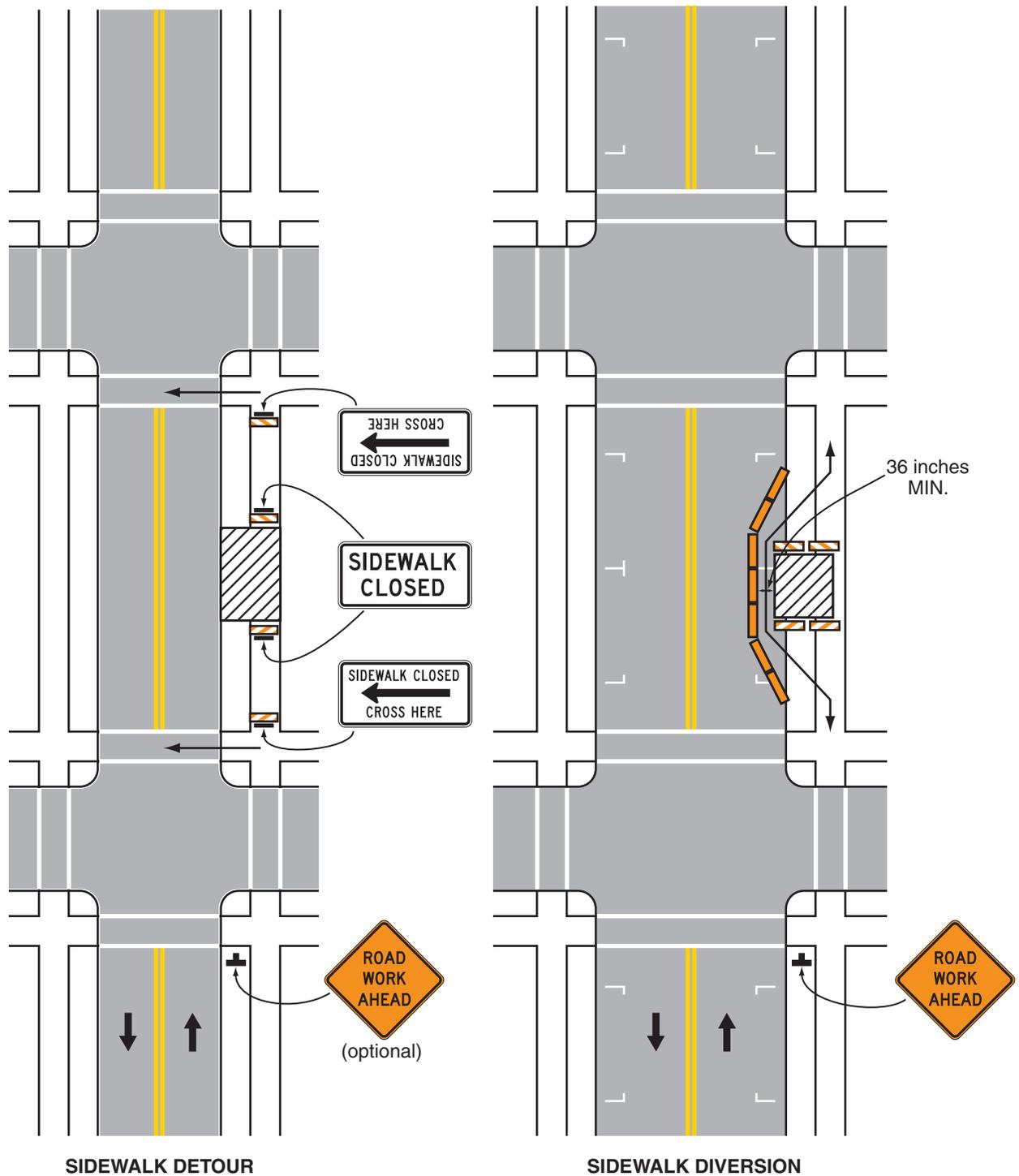
Guidance:

2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

Option:

4. Street lighting may be considered.
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the temporary sidewalks from vehicular traffic flow.
8. Signs, such as KEEP RIGHT (LEFT), may be placed along a temporary sidewalk to guide or direct pedestrians.

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Notes for Figure 6H-30—Typical Application 30
Interior Lane Closure on a Multi-Lane Street

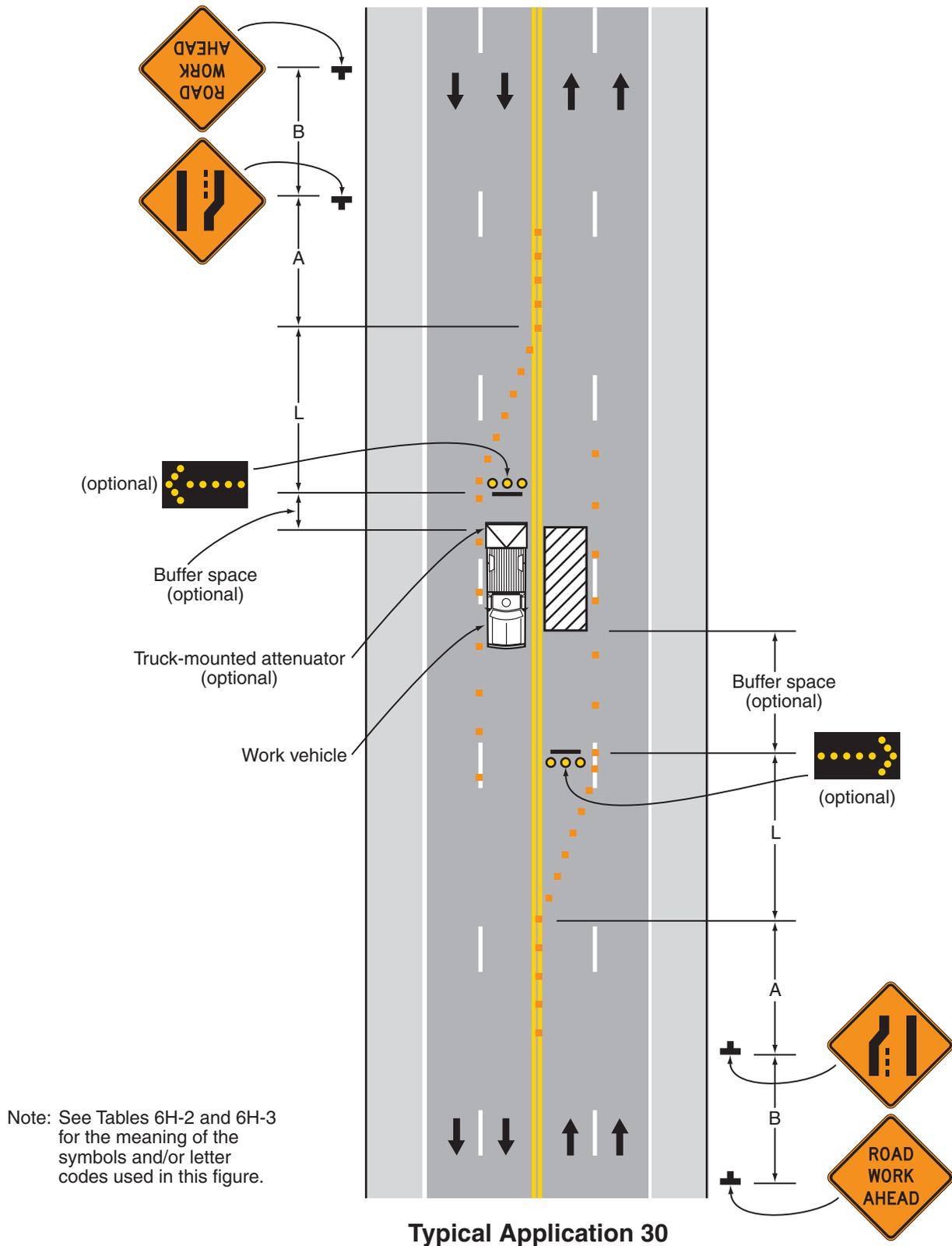
Guidance:

1. *This information applies to low-speed, low-volume urban streets. Where speed or volume is higher, additional signing such as LEFT LANE CLOSED XX FT should be used between the signs shown.*

Option:

2. The closure of the adjacent interior lane in the opposing direction may not be necessary, depending upon the activity being performed and the work space needed for the operation.
3. Shadow vehicles with a truck-mounted attenuator may be used.

Figure 6H-30. Interior Lane Closure on a Multi-Lane Street (TA-30)



Notes for Figure 6H-31—Typical Application 31
Lane Closure on a Street with Uneven Directional Volumes

Standard:

1. **The illustrated information shall be used only when the vehicular traffic volume indicates that two lanes of vehicular traffic shall be maintained in the direction of travel for which one lane is closed.**

Option:

2. The procedure may be used during a peak period of vehicular traffic and then changed to provide two lanes in the other direction for the other peak.

Guidance:

3. *For high speeds, a LEFT LANE CLOSED XX FT sign should be added for vehicular traffic approaching the lane closure, as shown in Figure 6H-32.*
4. *Conflicting pavement markings should be removed for long-term projects. For short-term and intermediate-term projects where this is not practical, the channelizing devices in the area where the pavement markings conflict should be placed at a maximum spacing of 1/2 S feet where S is the speed in mph. Temporary markings should be installed where needed.*
5. *If the lane shift has curves with recommended speeds of 30 mph or less, Reverse Turn signs should be used.*
6. *Where the shifted section is long, a Reverse Curve sign should be used to show the initial shift and a second sign should be used to show the return to the normal alignment.*
7. *If the tangent distance along the temporary diversion is less than 600 feet, the Double Reverse Curve sign should be used at the location of the first Two Lane Reverse Curve sign. The second Two Lane Reverse Curve sign should be omitted.*

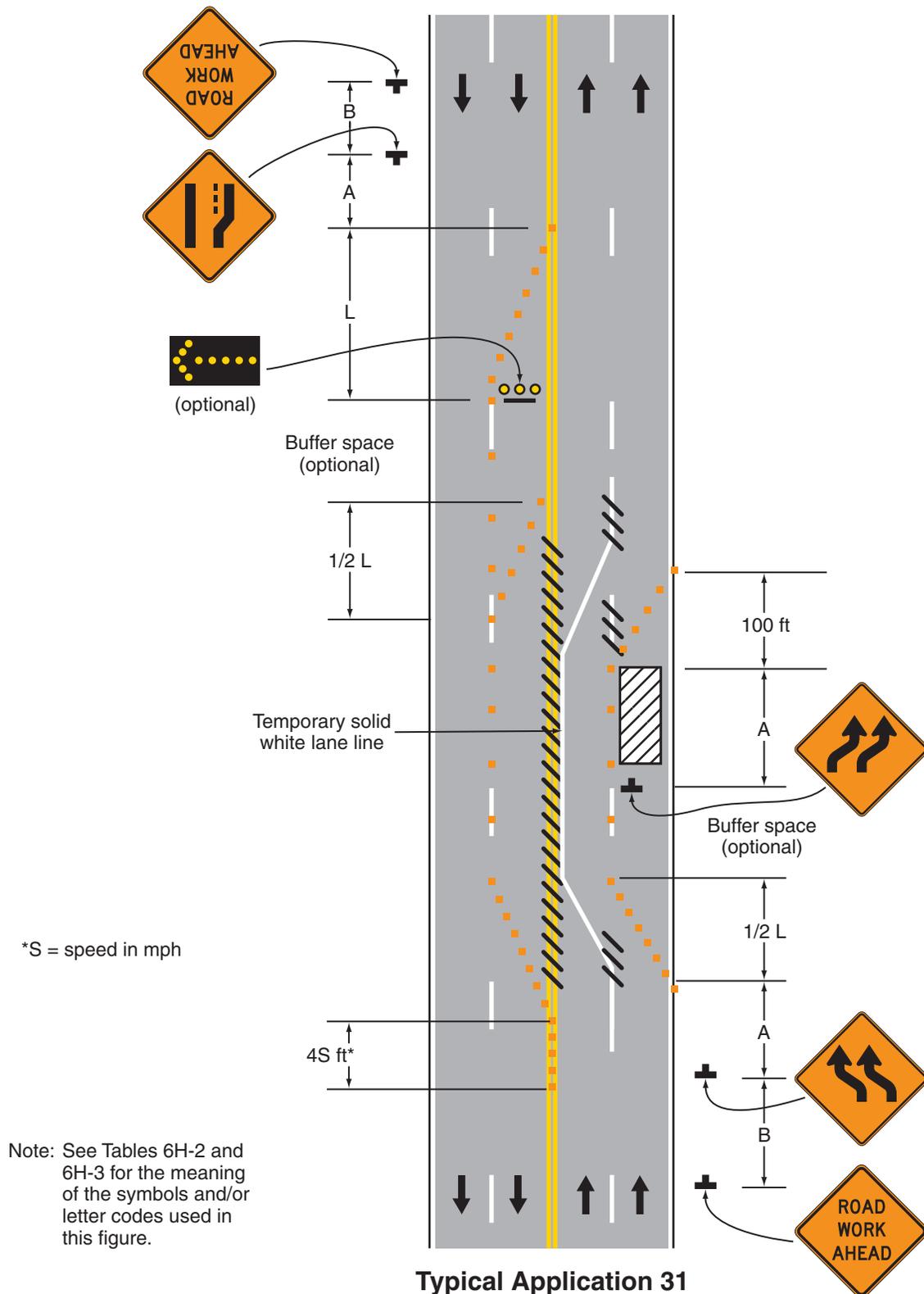
Standard:

8. **The number of lanes illustrated on the Reverse Curve or Double Reverse Curve signs shall be the same as the number of through lanes available to road users, and the direction of the reverse curves shall be appropriately illustrated.**

Option:

9. A longitudinal buffer space may be used in the activity area to separate opposing vehicular traffic.
10. Where two or more lanes are being shifted, a W1-4 (or W1-3) sign with an ALL LANES (W24-1cP) plaque (see Figure 6F-4) may be used instead of a sign that illustrates the number of lanes.
11. Where more than three lanes are being shifted, the Reverse Curve (or Turn) sign may be rectangular.
12. A work vehicle or a shadow vehicle may be equipped with a truck-mounted attenuator.

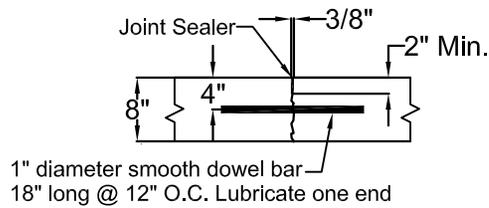
Figure 6H-31. Lane Closures on a Street with Uneven Directional Volumes (TA-31)



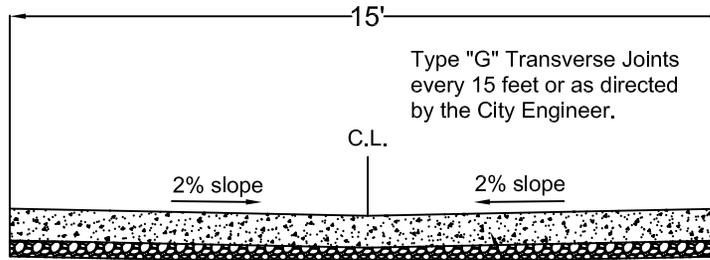
*S = speed in mph

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Type "G" Joint



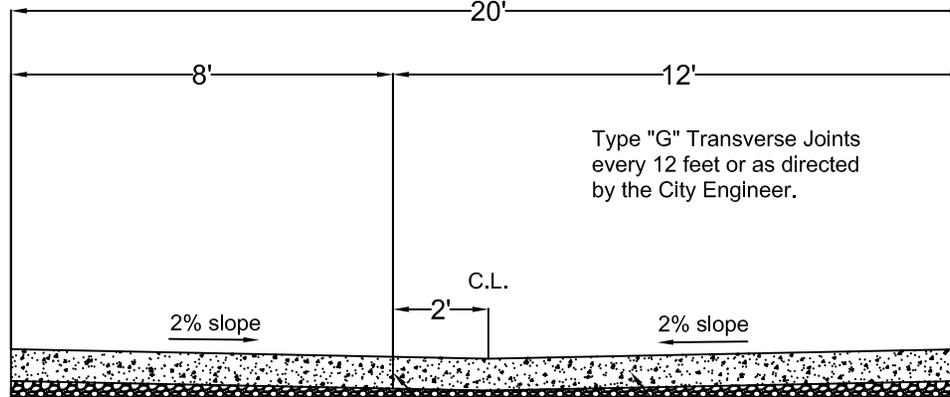
Cross Section of 15' Alley



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'

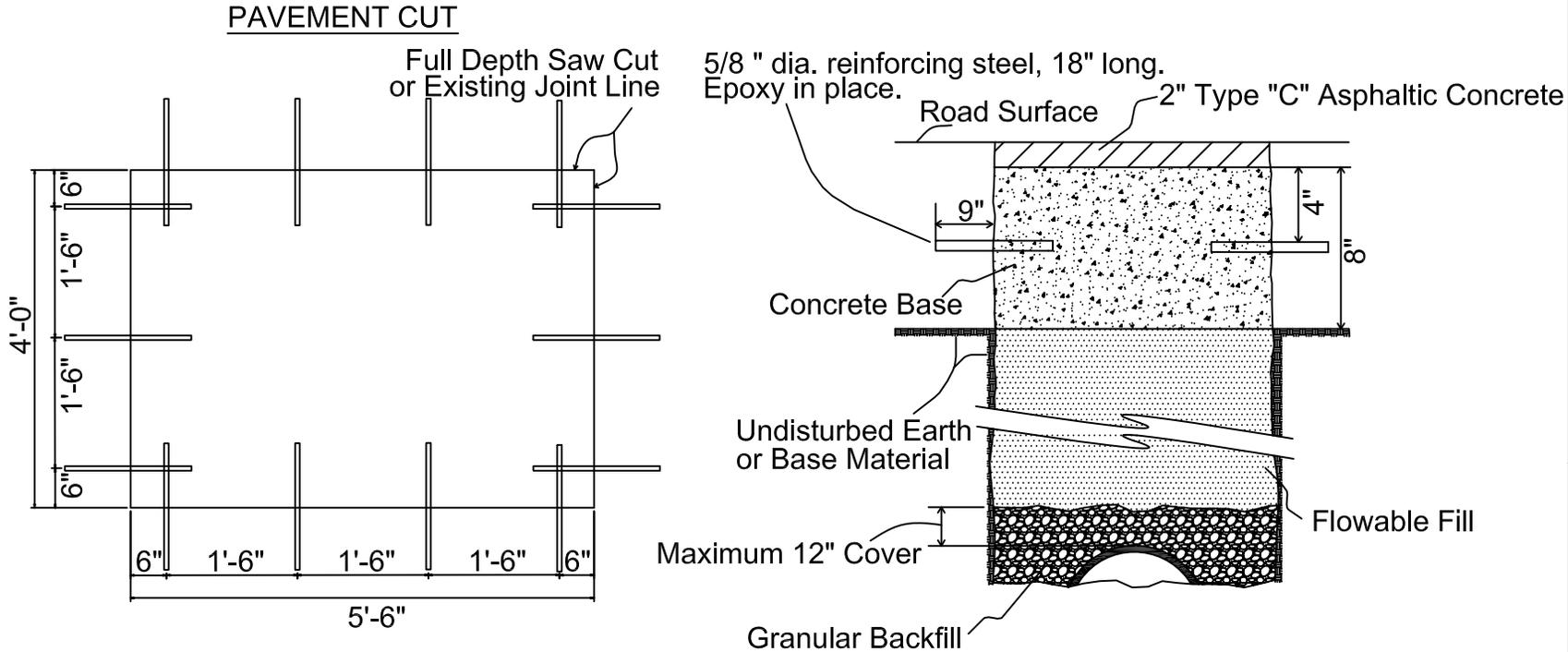
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SD-1

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.

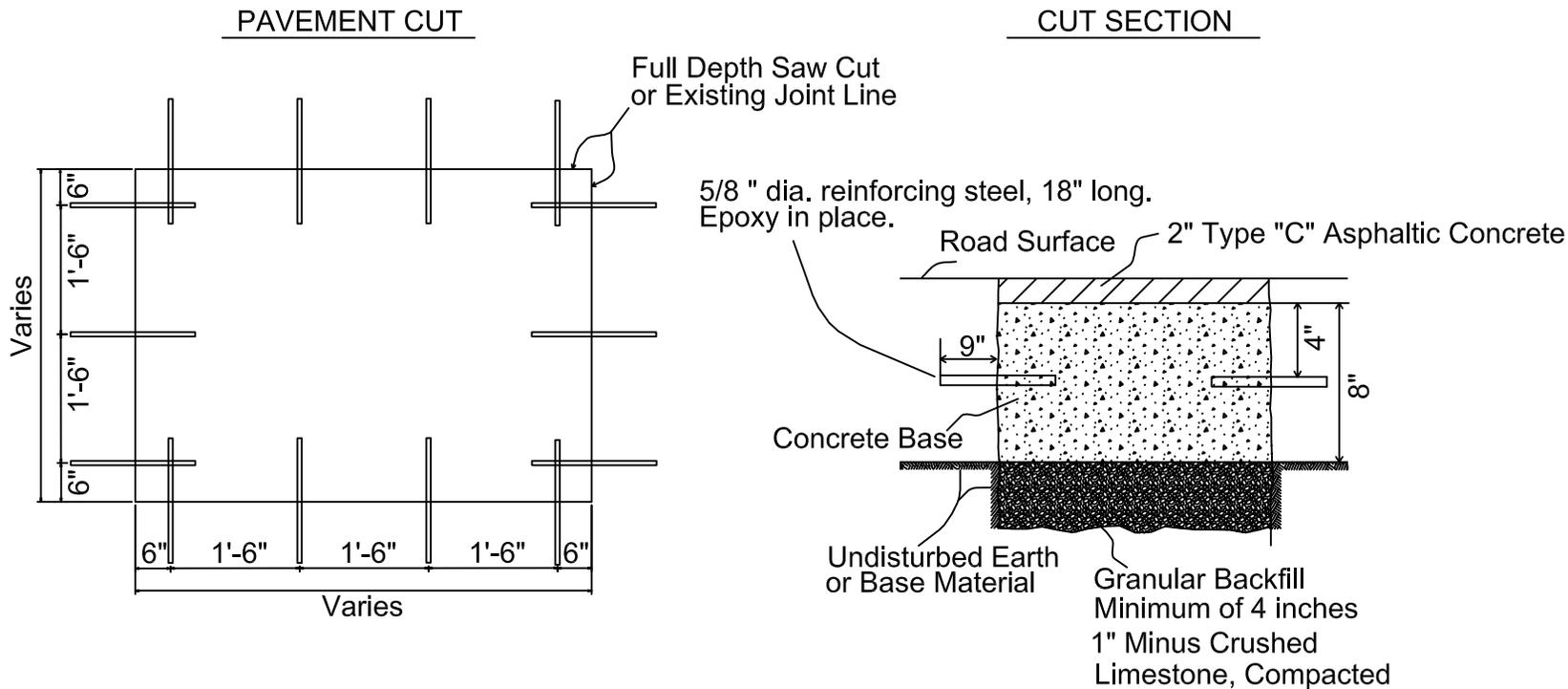
Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

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 Drawing Scale: NO SCALE
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SD-2

ASPHALT PAVEMENT EXCAVATION REPAIR DETAIL

CITY OF CLAYTON
STANDARD DETAILS



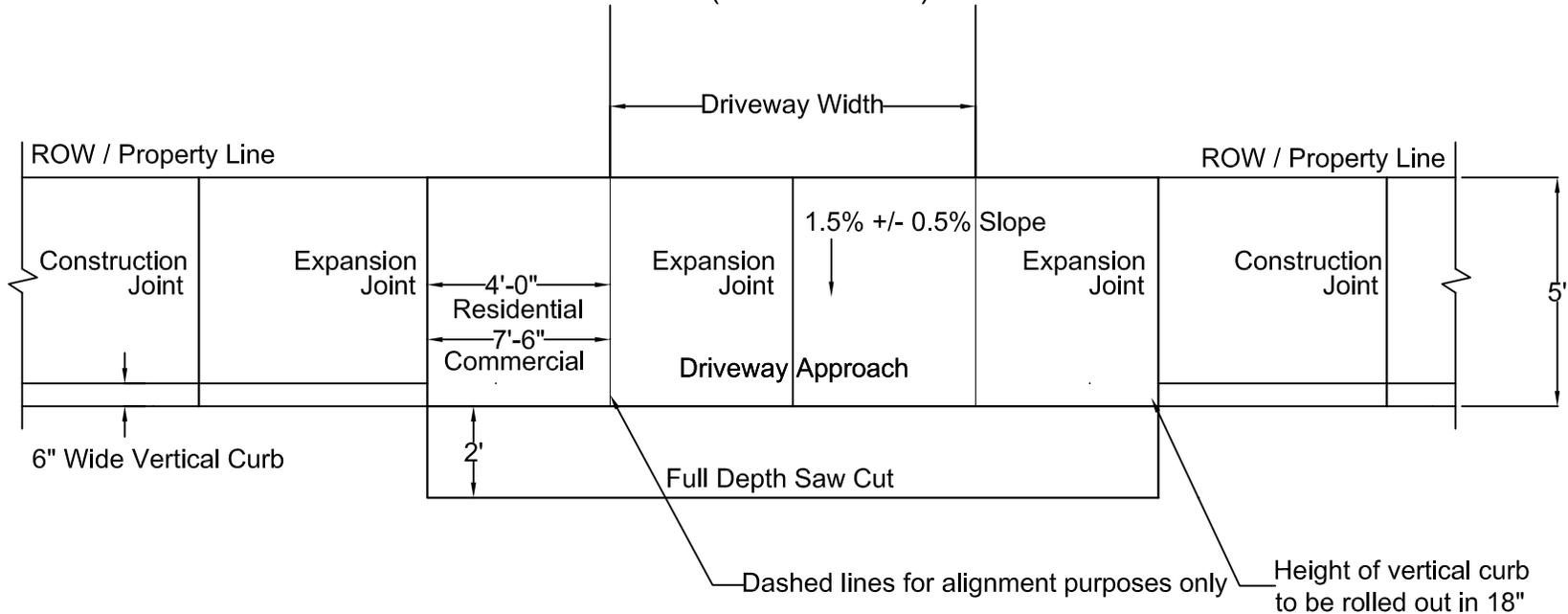
1. Concrete shall be a 8 1/2 sack mix with Meramec sand and gravel (maximum size 1"), shall attain a strength of 3,500 psi in 3 days and 4,500 psi in 28 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained.
2. 2" thick Type "C" Asphaltic Concrete overlay. Both air temperature and 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.

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Driveway Approach & Sidewalk Specifications

(No Tree Lawn)



CITY OF CLAYTON
STANDARD DETAILS

SPECIFICATIONS:

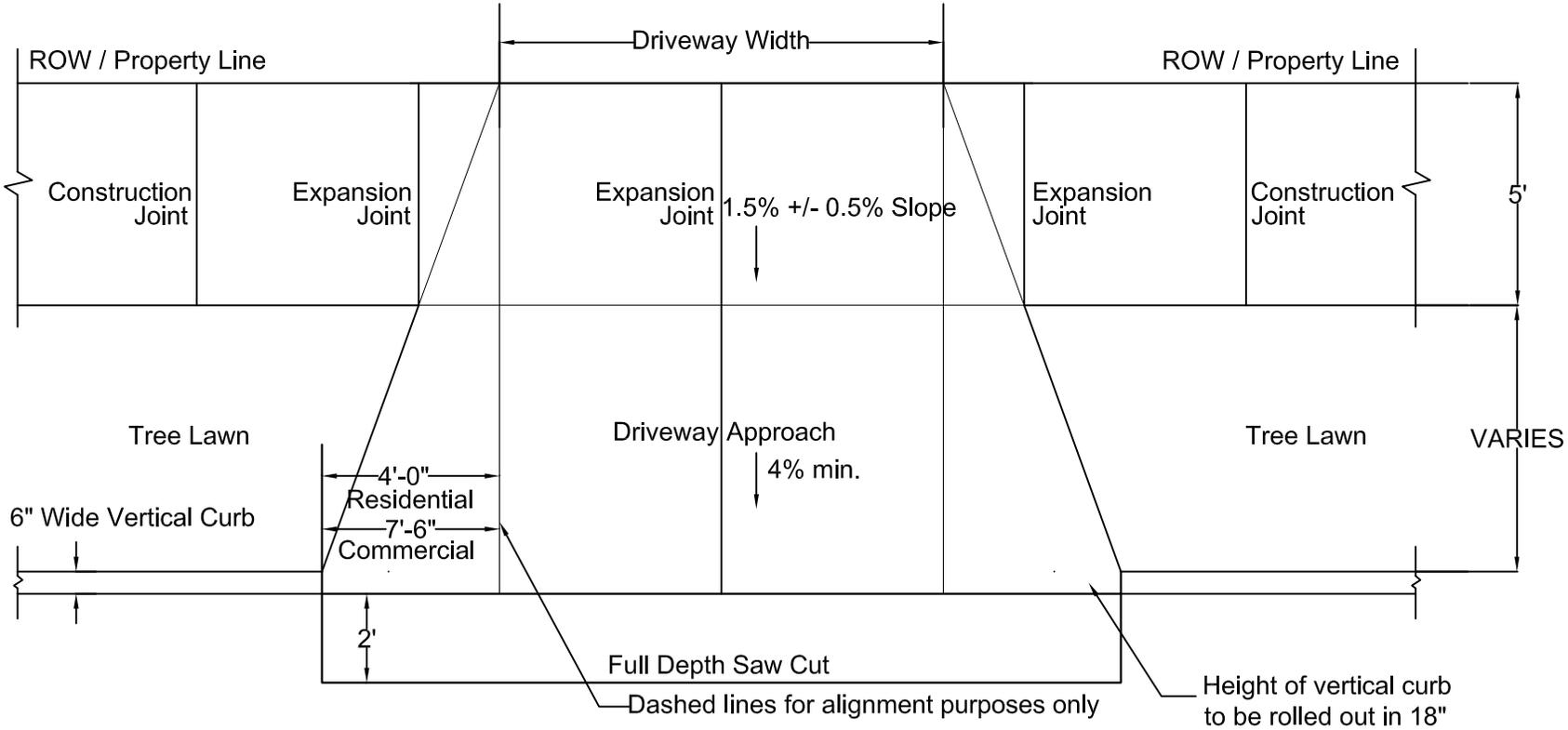
- 1) Concrete shall be a 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3,500 psi in 3 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR SHALL MATCH EXISTING.
- 2) Driveway approaches shall be 6" thick (residential) or 8" thick (commercial) 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.

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	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

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SD-4

Driveway Approach & Sidewalk Specifications



CITY OF CLAYTON
STANDARD DETAILS

SPECIFICATIONS:

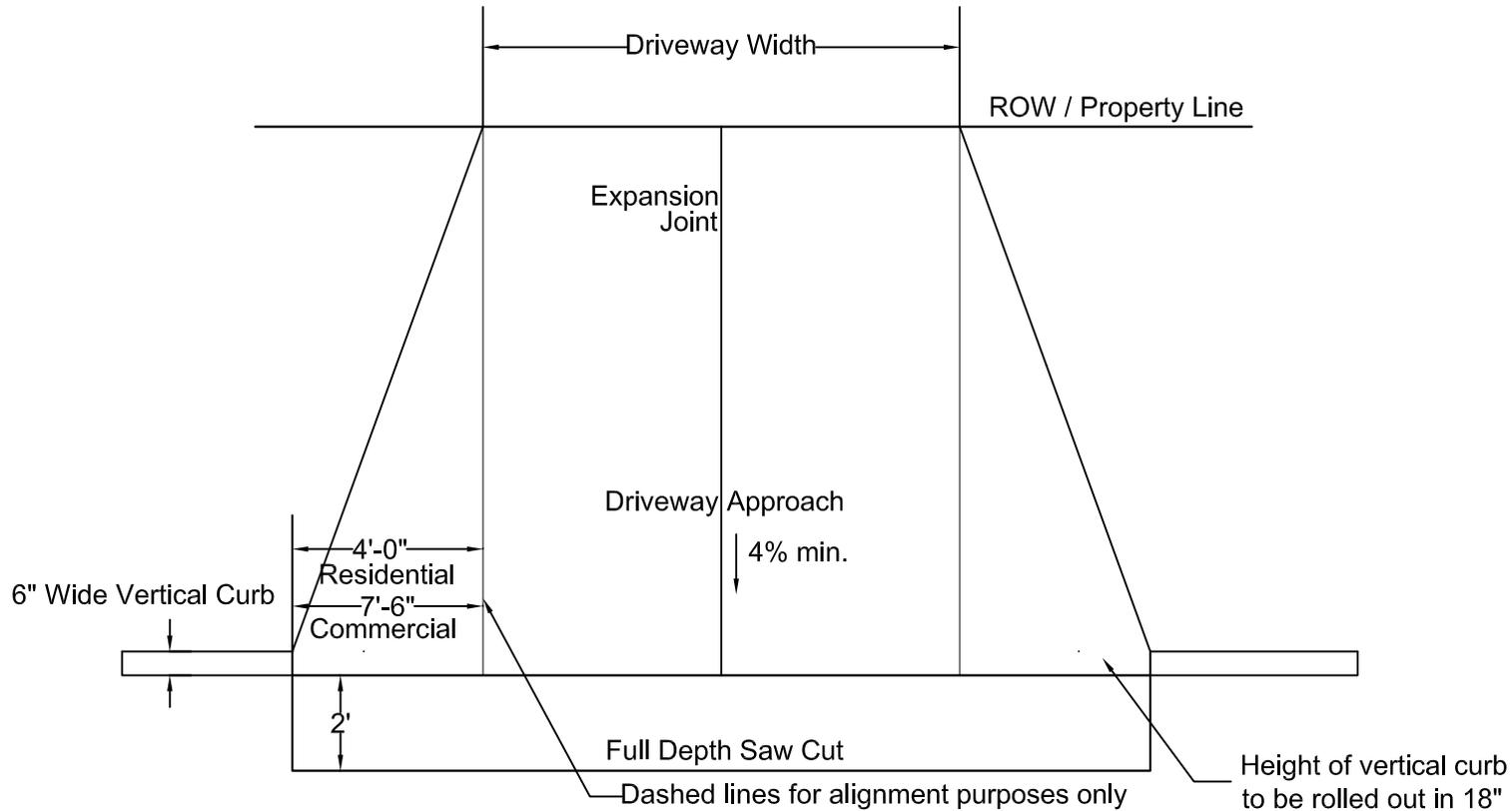
- 1) Concrete shall be a 8.5-sack mix with Meramec sand and gravel (max. size 1"), shall attain strength of 3,500 psi in 3 days, and shall have a 3.5" +/- 0.5" slump permitted, 4%-7% air entrained. COLOR SHALL MATCH EXISTING.
- 2) Driveway approaches shall be 6" thick (residential) or 8" thick (commercial) 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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	11/10/2010	STANDARD DETAILS UPDATE
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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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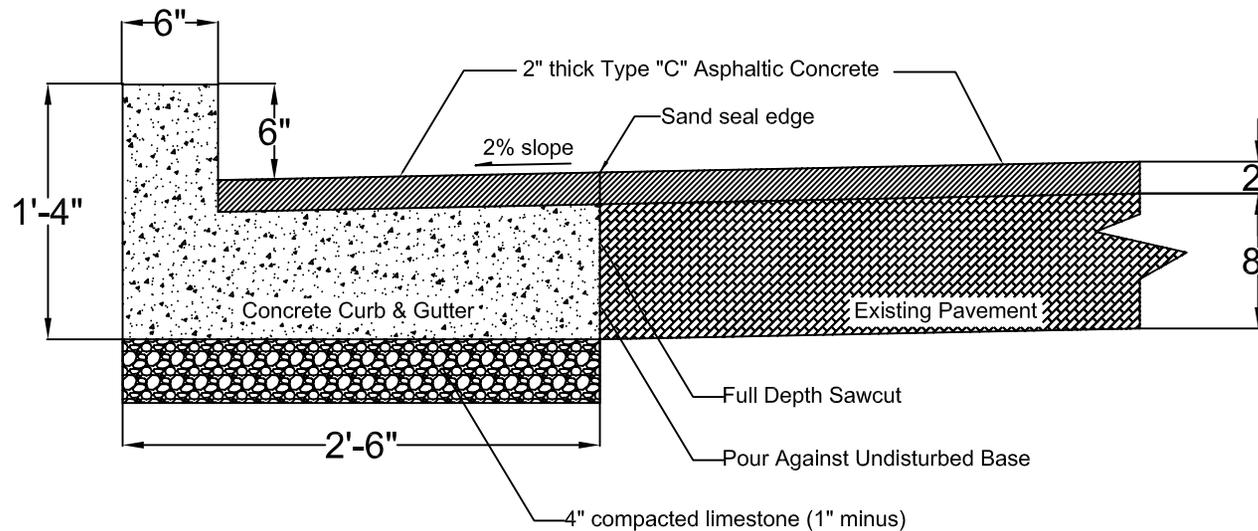
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	11/10/2010	STANDARD DETAILS UPDATE
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SD-6

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.

CITY OF CLAYTON
STANDARD DETAILS

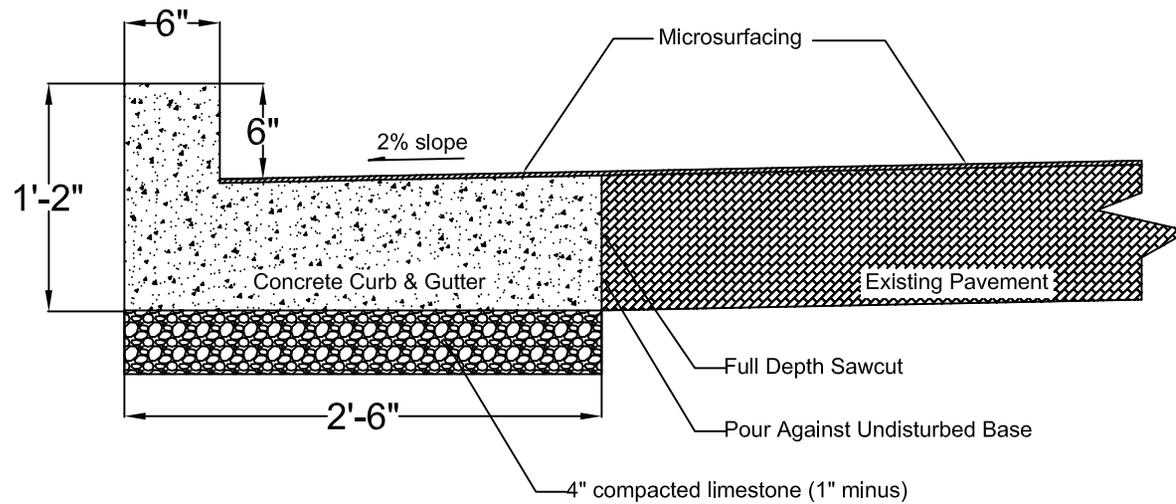
Revisions	Date	Name
	12/14/2009	STANDARD DETAILS
	05/05/2010	STANDARD DETAILS
	11/10/2010	STANDARD DETAILS UPDATE
	12/22/2010	STANDARD DETAILS UPDATE

Checked By: JW
 Drawn By: CAK
 Drawing Scale: 1"=3'
 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.

CITY OF CLAYTON
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'

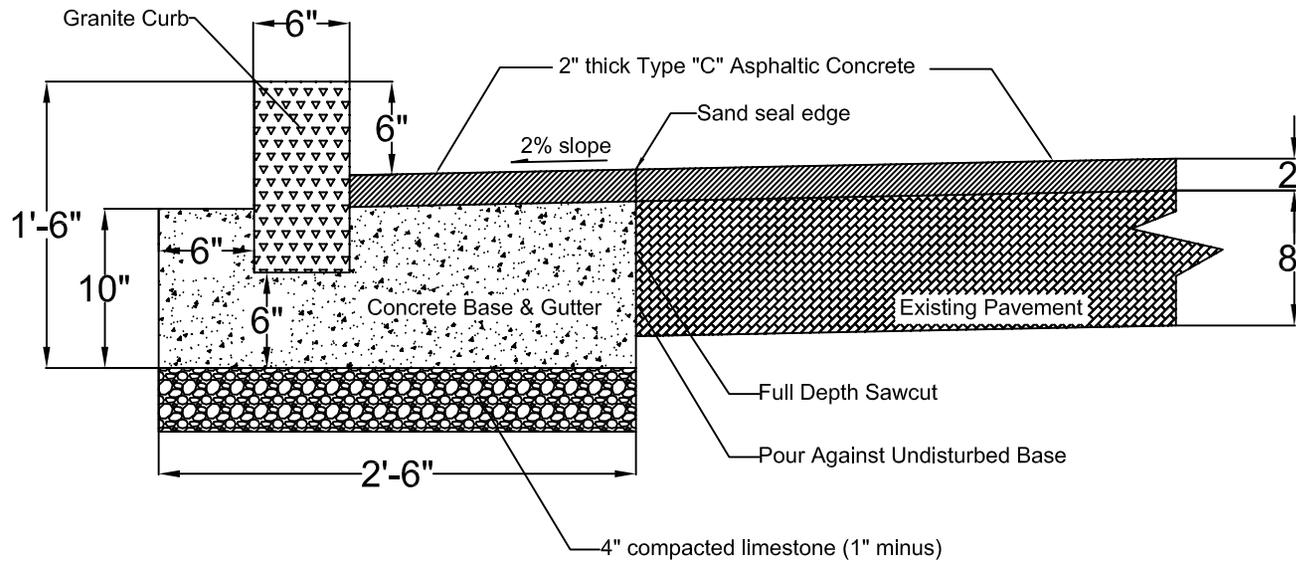
Drawing Number:

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.

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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

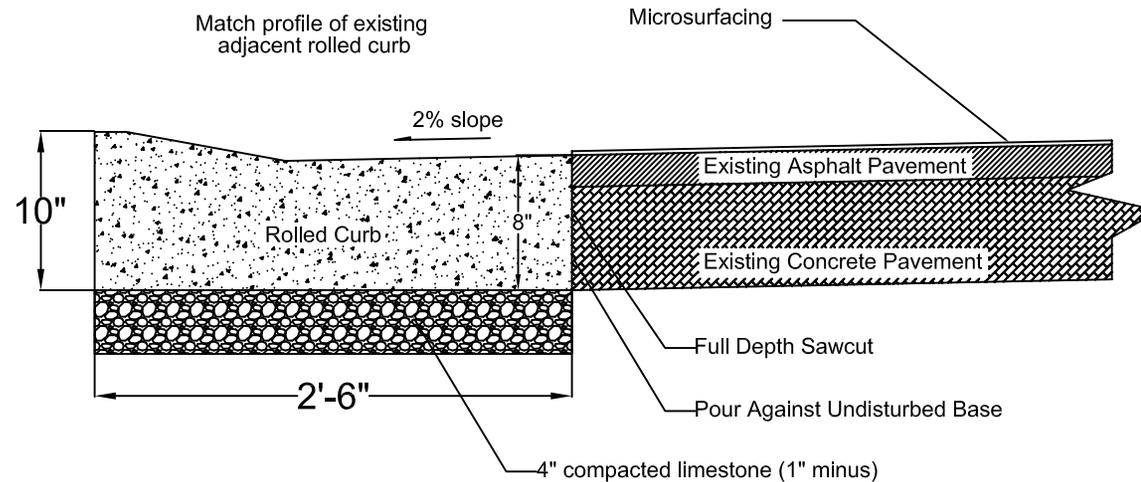
Drawing Scale: 1"=3"

Drawing Number:

SD-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.

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

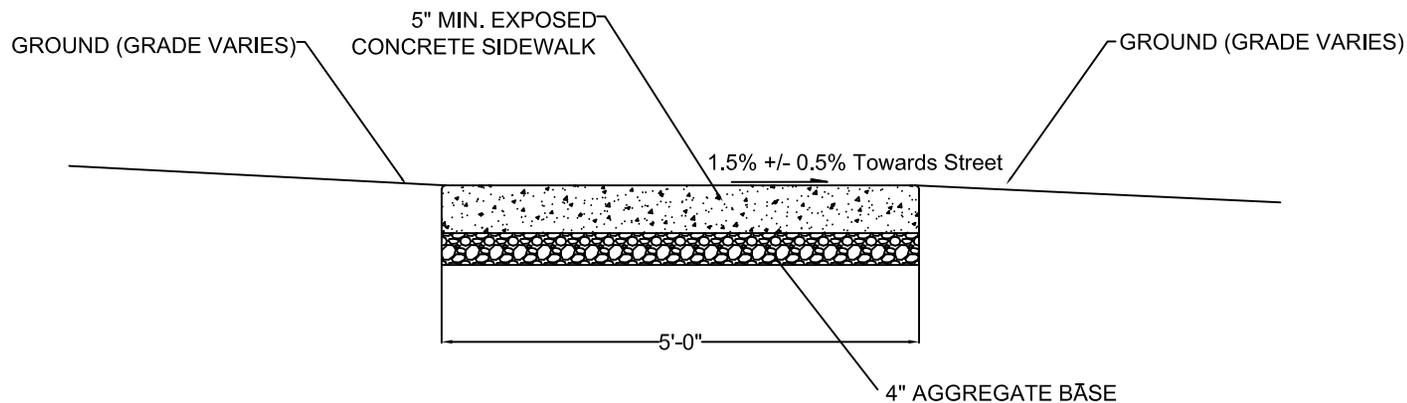
Drawn By: CAK

Drawing Scale: 1"=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
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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-11