

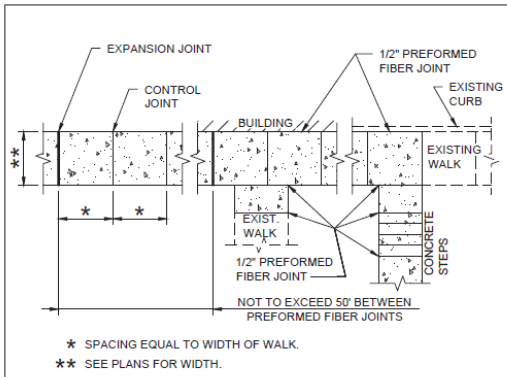


SPECIFICATIONS FOR PAVEMENT & SIDEWALK REPLACEMENT (rev: June 2017)

1. **All work shall be in accordance with** St. Louis County Standard Specifications for Highway Construction, St. Louis County Department of Highways and Traffic (1 Feb 2017), unless otherwise noted. Notify Warson Woods City Hall (314-965-3100) **at least one business day in advance** regarding location and date/ time when work crews will be repairing/ replacing sidewalks, driveways, or street pavement sections.
2. Excavation Permit. The City of Warson Woods Municipal Code, section 500.120, **paragraph B, requires that any person, firm or corporation desiring to “make an excavation, dig up or ditch or otherwise interfere with any of the streets including the right of way of the City adjacent to such street within the City limits.. for any purpose whatever apply to the City Clerk for an excavation permit, which permit shall only be issued by the City Engineer.” There is no charge for this permit. The permit application must state the following:** Name, phone number and address of the company or individual performing the excavation; purpose of the excavation; name, phone number and address of the person/ contractor directing this work; location (street address) of the excavation; notification details regarding utility locations (e.g., when the contractor called 800-DIG-RITE); and a sketch of the planned excavation site. This information must be provided at least **one business day in advance**.
3. Construction Hours:
Weekdays 7:00 a.m. – 5:00 p.m.
Saturdays 8:00 a.m. – 5:00 p.m.; Sundays and Holidays: **No Work**
Except in areas adjacent to Rohan Woods or St. Genevieve Du Bois Schools, where work shall be performed between the hours of 9:00 a.m. and 2:00 p.m. on school days. Contractor shall be responsible for verifying school calendar, and avoiding drop-off and pick-up hours to minimize disturbance to school traffic. Keep one lane of traffic open at all times. It is the responsibility of the Contractor to give twenty-four (24) hours notice to the Glendale Fire Department and Warson Woods Police Department before closing any street. Access to all drives will be maintained at all times except as follows: (1) Storm sewer construction across a driveway entrance: one (1) calendar day; (2) Removal of existing driveway and grade and form for four (4) days; pour and cure eight (8) days for new driveway: total twelve (12) working days. The Contractor shall notify each property owner in writing two (2) calendar days in advance of any driveway closing. Contractor will provide all barricades, flasher signs and construction signs in general accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways".
4. Verifications of underground utility locations will be the responsibility of the Contractor. Utility **conduit shall be bedded according to utility company's** specifications.
5. All sewer adjustments, relocations and construction shall be performed by the Contractor and shall comply with Standard Construction Specifications for Sewer and Drainage Facilities by the Metropolitan St. Louis Sewer District, 2009.
6. Pavement Removal/ Replacement. All pavement and walks are to be sawcut at locations of removal prior to removal. The City of Warson Woods requires that

where street pavements are removed for repair, replace entire pavement back to the centerline of joints. Sawcuts shall be made **a minimum of two inches (2") deep and** shall be in a straight line to assure a clean break during pavement removal/ demolition. Any irregular pavement adjacent to slab to be removed shall be sawcut to insure a smooth joint when work is completed. No irregular or jagged joints will be accepted in or immediately adjacent to new pavement. All excavations in sidewalk shall be saw cut and removed to the nearest joint.

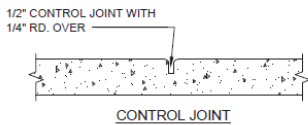
- a. Street pavement replacement shall consist of seven and one-half inches (7 **1/2") of Portland Cement (PC) concrete** reinforced with welded wire fabric (**6" x 6" – W2.9 x W2.9 WWF**). The base course shall consist of providing, placing and compacting of one and one-half inch (**1 1/2") minus crushed limestone. A minimum of six inches (6") of crushed stone shall be placed under all P.C. concrete pavement and four inches (4") under driveways.** Place curbs integrally with the pavement-curb type and height to match existing. Pavement replacement shall include the forming of approaches and sumps for inlet sills. Refer to Sheets P1 and P2 (attached) for concrete sidewalk, concrete pavement (street), driveway pavement, curbs, and pavement joint details.
 - b. Pavement joints may be sawcut or formed and sealed. Sealant material shall be a hot poured joint sealing compound conforming to (ASTM D-3405), Trumbull by Owens-Corning, Hi-Spec by R. W. Meadows or approved equal. Remove any excess joint material spilled from the pavement. Clean existing pavement adjacent to new pavement of any asphaltic patching for a minimum **of two feet (2') beyond the joint.** Seal the joint between new pavement and driveways. When placing concrete up to or against existing concrete paving, grades are to match. Also, in all cases, positive drainage into existing storm drains will be required.
 - c. **Seal Concrete Pavement. Seal new concrete pavement with "Ashford Sealer"** or approved equal. Apply **sealer per the manufacturer's written instructions** and after the concrete has been finished and the free water has left the surface. Apply at a minimum of one gallon for each two hundred (200) square feet of area. Keep the entire surface wet with the Ashford formula for thirty (30) minutes. Thirty (30) minutes after the initial application, broom all puddle or excess sealant to allow remaining material to penetrate into the surface.
7. Site Restoration. Restore the site to a similar condition that existed prior to the start of construction. Place any backfill material that has been stored on the site, after being excavated from the sewer or paving work. Heavy clay or gumbo shall not be used for backfill. Gravel, debris and excavated material shall not be stored on streets longer than three (3) calendar days. Placement and installation of top soil, seeding and mulching shall be in accordance with St. Louis County Standard Highway Specifications. Backfill along curbs will be done with material free of rocks, debris and clods. A minimum of six inches (6") of top soil shall be placed below the seedbed. Top soil shall be approved by the City Engineer. Seed shall be Ky-31 Fescue in accordance with County Specifications.



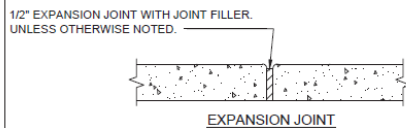
* SPACING EQUAL TO WIDTH OF WALK.
 ** SEE PLANS FOR WIDTH.



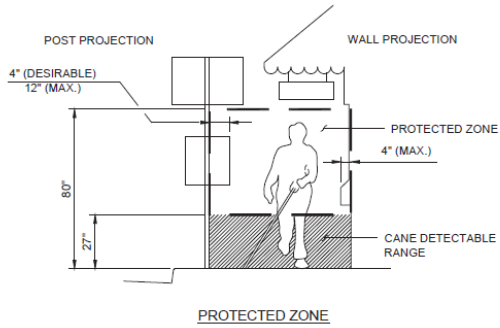
TYPICAL SECTION



CONTROL JOINT



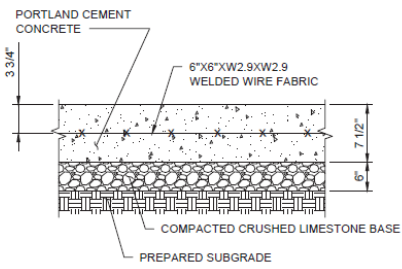
EXPANSION JOINT



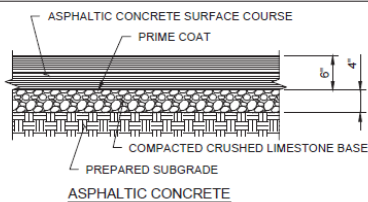
PROTECTED ZONE

NOTE
 WALL PROJECTIONS OR SIGNS OR OTHER OBJECTS ATTACHED TO POSTS DO NOT EXCEED 4" INTO THE PEDESTRIAN PATH BETWEEN 27" AND 80" ABOVE THE GROUND. EXCEPTION, SIGNS OR OTHER OBJECTS ATTACHED TO POSTS MAY PROJECT INTO THE PEDESTRIAN PATHWAY UP TO 12", BUT IS NOT PREFERRED AND SHOULD BE LIMITED TO 4" WHERE POSSIBLE.

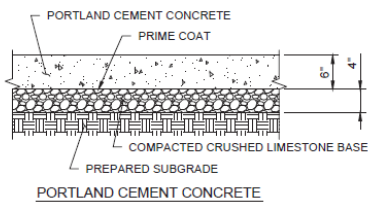
1 CONCRETE SIDEWALK
 SCALE: N.T.S.



2 CONCRETE PAVEMENT SECTION
 SCALE: N.T.S.

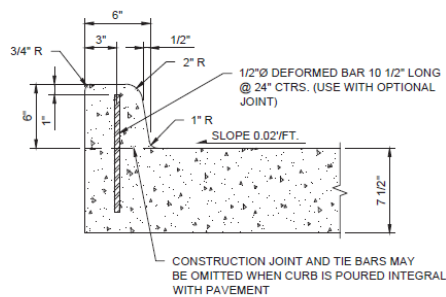


ASPHALTIC CONCRETE



PORTLAND CEMENT CONCRETE

3 DRIVEWAY PAVEMENT SECTIONS
 SCALE: N.T.S.



NOTE:
 ALL DEFORMED BARS FOR JOINTS AND CURBS SHALL BE ACCORDANCE WITH AASHTO M 31, GRADE 40 AND EPOXY COATED, CONFORMING TO THE REQUIREMENTS IN SECTION 1057.4 OF THE ST. LOUIS COUNTY STANDARD SPECIFICATIONS.

4 TYPE "A" VERTICAL CURB (INTEGRAL)
 SCALE: N.T.S.

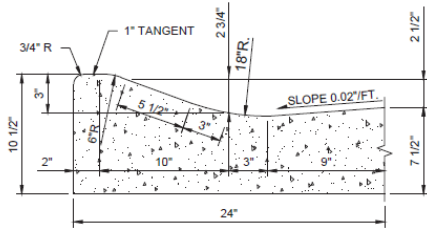
PROJECT: CITY OF WARSON WOODS



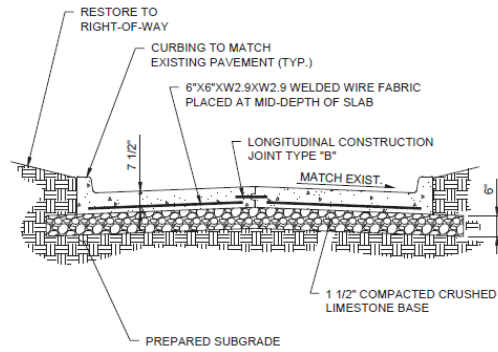
Kuhlmann design Group, Inc.
 66 Progress Parkway
 St. Louis, Missouri 63043-3706
 Tel: 314.434.8898 Fax: 314.434.8280
 St. Louis, MO • Belleville, IL

DATE: 06/09/2015
 DRAWN BY: JMU
 REVIEWED BY: AMG

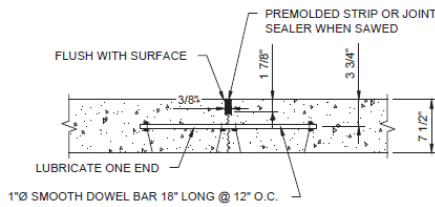
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5 INTEGRAL ROLLED CURB
SCALE: N.T.S.



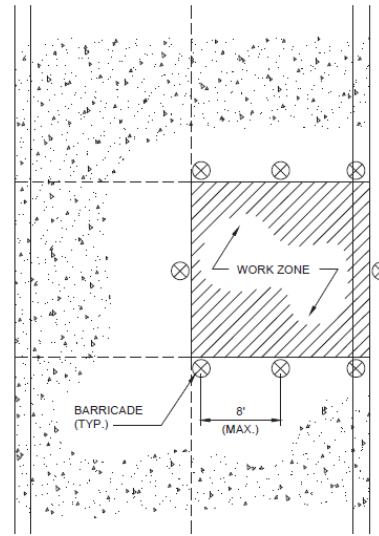
8 INTEGRAL ROLLED CURB
SCALE: N.T.S.



NOTE:
THE FREE END OF THE DOWEL BAR FOR A LENGTH OF AT LEAST 11 INCHES SHALL BE COATED WITH AN APPROVED GRAPHITE GREASE CONFORMING TO SECTION 1057.3.1 OF THE ST. LOUIS COUNTY STANDARD SPECIFICATIONS OR MAY SUBSTITUTE COMPLETED BASKET UNITS PRE-DIPPED IN AN APPROVED BOND BREAKER SOLUTION CONFORMING TO SECTION 1057.3.2

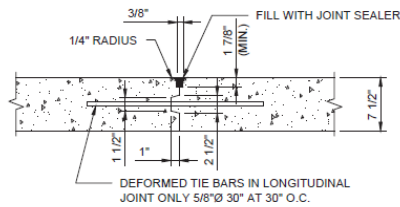
ALL DOWEL BARS 18" LONG AT 12" O.C. SHALL BE EPOXY COATED

6 TYPE "G" JOINT
SCALE: N.T.S.



NOTE:
ALL EXCAVATED AND POUR CONCRETE SLAB PORTIONS SHALL HAVE BARRICADES AT EACH CORNER AND AT LEAST ONE PER SIDE EXPOSED TO TRAFFIC. A MAXIMUM 8' SHALL EXIST BETWEEN BARRICADES. CAUTION TAPE SHALL BE STRUNG FROM ALL BARRICADES AND ADVANCED SIGNING SHALL BE PLACED IN CONFORMANCE TO CURRENT MUTCD STANDARDS.

9 TRAFFIC CONTROL
SCALE: N.T.S.



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7 TYPE "B" JOINT
SCALE: N.T.S.

PROJECT: CITY OF WARSON WOODS

KdG

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