

**INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS FOR RESIDENTIAL STREETS**

**GENERAL NOTES**

- Do not scale drawing, follow dimensions.
- All street inlets shall be separated from the pavement and curb by separate (non-reinforced) extending concrete through curb and sidewalk, minimum centerline to the pavement depth shall be as shown in the "Sewer Construction Details" (Drawing C613.02).
- When a joint falls within 5ft. of or concrete inlets, manholes or other structures, provide one or two grade stone courses of opening to permit joint to fall on round structures and at or between corners of rectangular structures.
- Driveway configurations are shown in the "Entrance Construction Details".
- Construction joints and tie bars may be omitted when curb is poured monolithically with pavement.
- Minimum thickness for pavement is: Residential 22' or less streets 6 inches Residential 22' wide streets 7 inches
- For joint and bar requirements refer to the "Pavement Construction Details for Slabs" (Standard Drawing C502.13) and "Pavement Construction Details for Curb" (Standard Drawing C502.14). Note the width and location may change the type of joint required.
- Transverse or longitudinal construction joints in 6ft. thick pavements may be made with a groove or full depth sawcut. Refer to Section 1039.30 in the "Sewer Construction Details" approved by the Department.
- The locations of the TYPE B longitudinal construction joints in the sections may be interchanged for the different widths of construction if approved by the Department.
- All 6/8 inch and 1 inch diameter smooth dowel bars, 18 inches long at 12 inch centers, shall be epoxy coated.

**JOINT REQUIREMENTS FOR CONCRETE PAVEMENT**

Pavement Thickness (T) in inches	Transverse Dowel Bars		Longitudinal Tie Bars	
	Dowel Diameter (D) in inches	Dowel Spacing (S) in inches	Tie Bar No. Size	Tie Bar Spacing (S) in inches
T < 6	A, 42	None	B, C	None
T = 6	A, 42	None	E	No. 6 x 30
T > 6	A, 42	None	B, C, E, F	No. 6 x 30

**GENERAL NOTES**

- Joint filler material shall meet ASTM specifications as follows: Bituminous Type II, Non-Extruding Expansion Joint Filler (ASTM D-294); Non-Extruding and Non-Absorbent Type (Vulcaniz., ASTM D-712).
- Where variable widths of intersecting pavements are shown joint spacing must conform to locations indicated on Standard Typical Sections, Intersection Channelization Details or the Approved Construction Plans.

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**PAVEMENT CONSTRUCTION DETAILS INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS**

REVISION DATE: October 8, 2012 DRAWING C502.02

**ROLLED CURB**

Distance to Back of Curb Varies - SEE TYPICAL SECTIONS 6" min.

**3 INCH HIGH CURB (Continuous Through Driveway Entrances)**

**GENERAL NOTES**

- Do not scale drawing, follow dimensions.
- For application of tack coat refer to Section 407 of the Saint Louis County Standard Specifications for Highway Construction.

**VERTICAL CURB**

Distance to Back of Curb Varies - SEE TYPICAL SECTIONS 6" min.

**6 INCH HIGH CURB**

**GENERAL NOTES**

- Do not scale drawing, follow dimensions.
- For application of tack coat refer to Section 407 of the Saint Louis County Standard Specifications for Highway Construction.

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**PAVEMENT CONSTRUCTION DETAILS BITUMINOUS CONCRETE CURB AND PAVEMENT DETAILS**

REVISION DATE: January 1, 2010 DRAWING C502.04

**BITUMINOUS OVER CONCRETE PAVEMENT CUT**

**CONCRETE PAVEMENT CUT**

**BITUMINOUS CONCRETE PAVEMENT CUT**

PAVEMENT THICKNESS	DIAMETER	LENGTH
7 inches	1 inch	18 inches
8 inches	1 inch	18 inches
9 inches	1-1/4 inches	18 inches
10 inches	1-1/4 inches	18 inches
11 inches or greater	1-1/2 inches	18 inches

**GENERAL NOTES**

- If a permit is issued to replace the existing asphaltic concrete pavement with full depth bituminous concrete pavement and concrete pavement is found under the existing asphaltic concrete pavement, the applicant will be required to follow the detail for bituminous concrete over concrete pavement cut case Cut Section "A" above. The applicant will use high early Type III cement with an approved water reducer and non-chloride accelerator (Cure Specification 613.2.1) to replace existing concrete for 4 hour opening. Use 4 inches of Type 5 aggregate over granular backfill as a subbase. Compact all backfill and base materials per County specifications.
- Refer to Standard Drawing C502.03, Type "D" joint at transverse joints.
- Longitudinal and transverse joints: Do not drill concrete pavement less than 7 inches thick. For all other pavement thicknesses, install longitudinal bars by drilling holes with a gang-mounted drill, supplying epoxy in accordance with Section 1039.3, and cleaning hole, installing epoxy and tie bar in accordance with epoxy manufacturer's guidelines. The bars are to be installed no closer than 15 inches from transverse joint. Tie bar size and length shall be as follows:
  - Epoxy-Coated Tie Bars, For Pavement Thicknesses:
    - Less than 11 inches, use No. 5 deformed bars, 30-inches long at 30 inch centers.
    - Greater than or equal to 11 inches, use No. 6 deformed bars, 40-inches long at 30 inch centers.
- Do not drill 6 inch pavement. Use epoxy coated Number 5 reinforcement bars, 18 inches long on 30 inch centers at longitudinal joint.
- Pavement Repair Date Stamping: This is to be applied to concrete pavement repairs that will not be overlaid. Using Metal dies in accordance with Sec 502.3.11 the contractor shall stamp the pour date into the repair after surface texturing, but before curing is applied. The placement date (MM-DD-YY) of each pavement repair shall be stamped in the plastic concrete. The stamped date shall be located near the repair transverse and longitudinal joint on a transverse surface not closer than 1 foot to any edge of the pavement repair and face outward so as to be read from the rear shoulder. On roadways with narrow shoulders or curbs, the numbers shall be oriented (parallel with the transverse joint) so that they can be read from the roadway in the direction of traffic flow.
- Joint Depth and Sealer material in accordance with Standard Drawings C502.13, "Joints" and C502.14, "Curbs".
- Epoxy Anchoring Material in accordance with Section 1039.30, "Epoxy or Polyester Bonding Agents for Dowels".

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**CONSTRUCTION DETAILS OF FULL DEPTH PAVEMENT REPAIR**

REVISION DATE: October 8, 2012 DRAWING C613.00

**PATCH CONSTRUCTION DETAILS**

**GENERAL NOTES**

- Minimum Thickness (T) for Pavement Replacement is:
  - Concrete Thickness 6"
  - All Residential Minor and Local Streets Residential Collector, All County and Non-Residential Streets 7"
  - All Arterial Streets 8"
- For additional details refer to Standard Drawings C613.02 and C613.03, and Standard Specifications for Highway Construction Manual, Section 613.
- Longitudinal and transverse joints: Do not drill 6 inch thick concrete pavement. Install longitudinal bars by drilling holes with a gang-mounted drill, supplying epoxy in accordance with Section 1039.3, and cleaning hole, installing epoxy and tie bar in accordance with epoxy manufacturer's guidelines. Tie bars are to be installed no closer than 15 inches from transverse joint. Tie bar size and length shall be as follows:
  - Epoxy-Coated Tie Bars, For Pavement Thicknesses:
    - Less than 11 inches, use No. 5 deformed bars, 30-inches long at 30 inch centers.
    - Greater than or equal to 11 inches, use No. 6 deformed bars, 40-inches long at 30 inch centers.
- Where base material exists under pavements, replacement will be made with 4 inches of Type 5 aggregate base course, granular backfill and base materials will be compacted and installed per St. Louis County Specifications.
- Wherever tie bars, tie bolts, dowels or other load transfer devices are found in a joint, the exposed ends will be cleaned and left in place. All smooth slip dowels should be straightened if necessary and greased prior to placing in patch.
- Refer to Standard Drawing C502.03, Type "D" joint at transverse joints.

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**CONSTRUCTION DETAILS FOR CONCRETE CONSTRUCTION PATCHES**

REVISION DATE: October 8, 2012 DRAWING C613.01

**CONSTRUCTION DETAILS FOR P.C.C. REPAIR**

**GENERAL NOTES**

- For additional details refer to Standard Drawings C613.00, C613.01, C613.02 and C613.04.
- If the repair area can not be confined to the dimension shown, then the entire slab shall be replaced.
- Full depth sawcutting is required around the repair area.
- Repair depth shall match surrounding pavement.
- No longitudinal sawcutting of slabs will be permitted.
- Half slab replacement not allowed on slabs less than 20 feet.

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**CONSTRUCTION DETAILS FOR P.C.C. REPAIR**

REVISION DATE: October 8, 2012 DRAWING C613.03

**TYPE A (MODIFIED) CONSTRUCTION JOINT**

**GENERAL NOTES**

- THE NUMBER OF BACKER RODS REQUIRED WILL VARY WITH THE PAVEMENT THICKNESS. BACKER RODS AND FLEXIBLE FOAM FILLER MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.
- JOINT FILLER SHALL BE A FLEXIBLE, NON-ABSORBENT, NON-GASSING, NON-STAINING, NON-SHRINKING MATERIAL, EXTRUDED FROM A CLOSED-CELL POLYMER, ASTM D-5249.
- JOINT FILLER COMPOSED OF CELLULAR FIBERS, ASTM D-1751, MAY BE USED AT DRIVEWAY, SIDEWALK, AND SEWER INLET AND MANHOLE LOCATIONS.
- SEE "INTEGRAL CURB DETAIL "B" AT DRIVEWAYS" FOR EXPANSION JOINT REQUIREMENTS AT DRIVEWAY CONNECTIONS TO THE STREET AND THE GARAGE.

**ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC CLAYTON, MISSOURI**

**CONSTRUCTION DETAILS FOR P.C.C. REPAIR**

REVISION DATE: October 8, 2012 DRAWING C502.04

**MCKELVEY HOMES**

218 CHESTERFIELD TOWNE CENTRE  
CHESTERFIELD, MISSOURI 63005  
(636) 363-9990

**VOLZ Incorporated**

ENGINEERS  
LAND PLANNING  
LAND SURVEYING  
TRANSPORTATION MANAGEMENT

10848 Indian Head Trcl. Blvd.  
St. Louis, Missouri 63114  
314-426-0212 Main  
314-426-0213 Fax  
www.volzinc.com  
Authority #203

**TIMOTHY J MEYER**

Professional Engineer  
MO E-24665

**INVERNNESS**

CONSTRUCTION DETAILS PHASE 3

1575 BRYAN RD. PROJECT # 22450

01/10/2022 C44

**SANIT CHARLES COUNTY HIGHWAY DEPARTMENT ST. CHARLES, MISSOURI**

PAVEMENT CONSTRUCTION DETAILS  
Type "A" Expansion Joint

DWG: May, 2002 DRAWING C502.04

H:\CADD\24-600-22450\mp\Drawings\Master\Modl\3771\2022\_2150.dwg - C44 - Construction Details.dgn - Master Model 3/7/2022 2:50:44 PM Plotted by jpekins Plot Scale:50.000000 / in. Plot Driver:volz5 PDF.plt, Pen Table:volz5 PDF.plt