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**Note:**

1. All excavations within the City of Kirkwood Right-of-Way require an excavation permit. Contact the Engineering Department at 314.822.5822.
2. St. Louis County Department of Transportation Standard Drawings and Specifications shall apply except as modified by the City Code and/or these Standard Drawings and Specifications.
3. All concrete within the City of Kirkwood Right-of-Way shall use Meramec large and fine aggregates.
4. Any excess construction and/or excavation materials shall be removed from the Right-of-Way at the end of each work day.
5. Contractor to disturb affected areas the minimum amount necessary to complete the work and to take extra care not to disturb any areas outside the construction area.
6. All backfill shall be granular fill with 1" nominal max aggregate size.
7. Mechanically compact all backfill in excavated areas and sod disturbed areas.
8. The Contractor shall be responsible for installing erosion control devices as necessary to control erosion for the duration of the project.
9. The Contractor is responsible for establishing & maintaining traffic control, in accordance with the MUTCD.
# Concrete Diagram and Notes

**Diagram Description:**
- **Concrete Lane:** The diagram depicts a concrete lane with thickness specifications for different classes of streets.
- **Aggregate Base:** A 2" clean aggregate base is shown.
- **Concrete Base:** A 7" concrete base with Meramec Sand/Gravel, 7.27 sack with air (5-8%) is specified.
- **Non-Woven Geotextile:** A non-woven geotextile (AASHTO M288 Type 2) with 2' overlap is indicated.

## Thickness Per Table

<table>
<thead>
<tr>
<th>Class of Street</th>
<th>Major (inches)</th>
<th>Collector (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete pavement:</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Rolled stone base</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Asphalib concrete</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Surface course</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Asphalib concrete base</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Subgrade Notes:**
- **Aggregate Base:** A 2" clean aggregate base is specified.
- **7" Concrete Base:** A 7" concrete base with Meramec Sand/Gravel, 7.27 sack with air (5-8%) is indicated.

## Notes:
1. **Concrete Pavement:** Full panel replacement if one or more of the following exist:
   - Any arterial street less than 15 years old or any street less than 10 years old.
   - Any slab where the cut removes more than 1/3 of the slab.
   - Any diagonal cut.
   - Any slab where the proposed cut will leave the slab with 3 or more pieces.
   - Any trenching that transverses any arterial.

2. **Asphalt Pavement:** Minimum width of replacement overlay shall be to the centerline on two lane roads.

3. **Joint Reinforcement:**
   - 30" long, longitudinal tie bar #5 grade 40 epoxy coated (12" on center).
   - 18" long, 1" grade 40 smooth epoxy, shall be installed in all transverse joints spaced on 24" centers.

4. **See Engineer for Pavement Requirements**
1. CONCRETE PAVEMENT (SHEET 4): WHERE PARTIAL PANEL REPLACEMENT IS ALLOWED, ADDITIONAL PAVEMENT REPLACEMENT BEYOND THE EXCAVATION WILL BE REQUIRED UNDER THE FOLLOWING CONDITIONS:

A. CUTS LESS THAN 18 SQUARE FEET AND WHERE THE DEPTH OF THE EXCAVATION IS 6 FEET OR LESS BELOW GRADE AND NOT WITHIN IT’S INITIAL SIZE.

B. MINIMUM RESTORATION SLAB SHALL BE 3 FEET WIDE IN THE LONGITUDINAL DIRECTION AND 5 FEET LONG IN TRANSVERSE DIRECTION.

C. IF CUT IS LESS THAN 3 FEET FROM THE LONGITUDINAL OR 5 FEET FROM THE TRANSVERSE JOINT OR OTHER PATCHES OR CRACKS, THE INTERVENING PORTION OF THE SLAB MUST BE REMOVED.

D. 18” SMOOTH 1” DIAMETER EPOXY COATED DOWELS WILL BE USED ON 24’ CENTERS.

2. ASPHALT PAVEMENT (SHEET 5):

A. THE LENGTH OF REPLACEMENT SHALL BE THE LENGTH OF THE EXCAVATION PLUS 24 INCHES ALL THE WAY AROUND. SEAL JOINTS WITH SST-5 AND SAND MIXTURE.

B. WHERE EXISTING CONCRETE BASE IS PRESENT, 30” #5 GRADE 40 TIE BARS SHALL BE INSTALLED IN ALL JOINTS SPACED 24” ON CENTER.
1. ADDITIONAL INFORMATION FOR LIMITS OF REPAIR AND REINFORCEMENT CAN BE FOUND ON SHEET 2.
1. ADDITIONAL INFORMATION FOR LIMITS OF REPAIR AND REINFORCEMENT CAN BE FOUND ON SHEET 2.
Curb and Cutter Replacement

Rolled Curb and Cutter Replacement

Vertical Curb Replacement / Full Depth Asphalt

See Asphalt Pavement Restoration for Details

Sawcut Existing Asphalt Street Pavement for Replacement

Prepared Subgrade

Asphalt Curb Replacement

* Molds Available with Street Department
* Tack Curb to Pavement Surface

Notes:

1. Concrete curbs shall be replaced joint to joint.

2. Concrete streets less than 5 years in age shall require replacement of the entire slab. Verify with engineering department.

3. Dowel bars required when replacing curbs on existing concrete pavement.
   A. 18" long, #5 grade 40 epoxy coated bar
   B. Shall be installed in all transverse joints spaced on 24" centers
   C. Concrete shall meet concrete pavement standards

City of Kirkwood
Curb Restoration Details
139 S. Kirkwood Road
Kirkwood, Missouri 63122

Standard Drawings

Date: 1/21/20
Checked: N/A
Drawing: N/A
Scale: None

No Date Remarks
Issue / Revision Descriptions
1. ADD END CAP AND RODENT SCREEN TO PIPE.

2. FULL ROADWAY WIDTH WHEN POSSIBLE OR AS WIDE AS EXCAVATION IS.
1) Commercial entrances and entrances to multifamily units (over two units) shall be constructed of 6.25 sack concrete with Meramec sand and gravel. With a minimum thickness of seven inches.

2) Commercial entrances shall not be more than 35 feet wide or less than 12 feet wide for one-way traffic. The opening at the curb or pavement edge shall not be less than a radius of 10 feet nor more than 20 feet.

*Apron may also be 2" asphaltic concrete over 6" Type 5 base. Sidewalk must be 6.25 sack Meramec sand/gravel concrete concrete.
RESIDENTIAL

4" THICK SIDEWALK

5.0' WIDE ADA PASSING ZONE

PROPOSED TOOLED JOINTS DEPENDING ON SIZE

EXP. JT.

10' MIN - 20' MAX

1' Min

EXP. JT.

6" THICK CONCRETE SIDEWALK
1.5% MAX CROSS SLOPE

4" MAX

Curb transition

Width to match driveway

4" MAX

MATCH EXISTING OR 6" MAIL

4" THICK SIDEWALK

"APRON MAY ALSO BE 2" ASPHALTIC CONCRETE OVER 6" TYPE 5 BASE. SIDEWALK MUST BE 6.25 SACK MERAMEC SAND/GRAVEL CONCRETE CONCRETE.

1.) COMMERCIAL ENTRANCES AND ENTRANCES TO MULTIFAMILY UNITS (OVER TWO UNITS) SHALL BE CONSTRUCTED OF 6.25 SACK CONCRETE WITH MERAMEC SAND AND GRAVEL. WITH A MINIMUM THICKNESS OF SEVEN INCHES.

2.) COMMERCIAL ENTRANCES SHALL NOT BE MORE THAN 35 FEET WIDE OR LESS THAN 12 FEET WIDE FOR ONE-WAY TRAFFIC. THE OPENING AT THE CURB OR PAVEMENT EDGE SHALL NOT BE LESS THAN A RADIUS OF 10 FEET NOR MORE THAN 20 FEET.
NOT USED

Concrete Vertical Curtain Section

(6) Tri-Wide, Teal, V. Vertical Curtain

Section A - B, View B - A

Section A - B

General Notes:

- NOT USED

1. All structures should be cast in place. Details should be shown except for on Kirkwood Road where this shall be red.

2. A standards not provided with shall be followed from the St. Louis County Department of Transportation specifications.
Section "B-B".

Configuration 6

Concrete Curb Ramps

Section "A-A".

Configuration 7

Concrete Curb Ramps

GENERAL NOTES:

1) All truncated domes shall be cast in place. Domes should be yellow except for on Kirkwood Road where they shall be red.

2) ADA standards not provided within shall be followed from the ST Louis County Standard Plans and Specifications.

3) Stormceptor access is covered by the configuration.