Gutter edge may be tapered or battered. (Typical for all Curb & Gutter Types)
OUT FALL CURB & GUTTER
(FORT COLLINS ONLY)

BARRIER CURB (KEY WAY OR EPOXY) (SECTION B)
MOUNTABLE CURB (KEY WAY OR EPOXY) (SECTION M)

8" BARRIER CURB (CDOT TYPE 2 SECTION B M-609-1 CURB W/8" REVEAL)
6" MOUNTABLE CURB

NOTES:
a.) Bottom of curb shall be poured to a depth no less than on the compacted subgrade of the pavement.
b.) Raised center medians shall be 8" barrier curb or 8" epoxy curb only.

MEDIAN (ISLAND CURBS)
LARIMER COUNTY URBAN AREA STREET STANDARDS
CONSTRUCTION DRAWINGS REVISION NO: 2 DRAWING
DATE: 04/01/07 703
NOTES:

1. For areas where the median area is less that 5.5' wide and landscaping cannot be achieved.
2. May be used for portions where the median area is > 5.5' if a variance is granted by the local entity engineer.

* Design engineer to specify control joint pattern to prevent random shrinkage cracks.
NOTES:

1. All Splash Guard shall be constructed of stamped concrete, colored concrete or equivalent, or exposed aggregate as required by the Local Entity.

2. Use 10' joint spacing on the Splash Guard concrete (match C&G joints).

3. For the portions of medians where the landscape area is less than 2' wide, the landscape area shall be paved in concrete (same material as the Splash Guard).

4. Any median trees shall be trimmed so the minimum branch height is 8' above the pavement.

5. A drainage system may be required whenever an irrigation system is proposed within the median.
NOTES:

1. All Splash Guard shall be constructed of stamped concrete, colored concrete or equivalent, or exposed aggregate as required by the Local Entity.

2. Use 10' joint spacing on the Splash Guard concrete (match C&G joints).

3. For the portions of medians where the landscape area is less than 2' wide, the landscape area shall be paved in concrete (same material as the Splash Guard).

4. Any median trees shall be trimmed so the minimum branch height is 8' above the pavement.

5. A drainage system may be required whenever an irrigation system is proposed within the median.
Refer to Chapter 25 for minimum removal dimensions.

**PERSPECTIVE**

W = Width

Ramp if necessary

ROW

1:12 (max.)

Varies **

Ramp Length

See note 3

See Note 2

x=2' (min.)

A

Ramp if necessary

1:12 (max.)

Varies **

Ramp Length

See note 3

See Note 2

5' per ft.

1:50 (max.)

1/4" per ft.

Detached Sidewalk

Back of curb

Lip

NOTE:

1. Concrete driveway must be provided to the property line.
2. 0" Curb Height, See Section A-A
3. Standard Curb and Gutter Section, See Standard Drawing 701

** Ramp length not to exceed 15'-0", slope must be uniform.

Expansion Joint if drive continues as concrete

SECTION A-A
N.T.S.

NOT TO SCALE
X = Curb Transition Length. Varies*
W = Driveway Width (See Drawing Series 707)
T = Concrete Thickness - 6" Residential,
     8" Commercial.

Refer to Chapter 25 for minimum removal dimensions.

PERSPECTIVE

W = Width

ROW

1:12 (max.)
1:50 (max.)
1:12 (max.)

Attached Sidewalk
Back of curb
FL
Lip
See Note 3
See Note 2
See Note 3
See Note 2

Driveway Width
Varies

Varies

* Ramp length not to exceed 15'-0", slope must be uniform.

NOTE:

1. Concrete driveway shall be provided to the property line.
2. 0" Curb Height. See Section A-A

SECTION A-A
N.T.S.

NOT TO SCALE

STANDARD DRIVEWAY APPROACH ATTACHED WALK (TYPE II)
**Type III**
*Detached Walk*

**Type IV**
*Attached Walk*

**Driveway Widths**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Approach Type</th>
<th>Minimum Width</th>
<th>Maximum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential:</td>
<td>I or II</td>
<td>12'</td>
<td>24' *</td>
</tr>
<tr>
<td>Multi Family:</td>
<td>I, II, III, or IV</td>
<td>24'</td>
<td>36' **</td>
</tr>
<tr>
<td>Commercial:</td>
<td>I, II, III, or IV</td>
<td>24'</td>
<td>36' **</td>
</tr>
<tr>
<td>Industrial:</td>
<td></td>
<td>24'</td>
<td>36'</td>
</tr>
</tbody>
</table>

- *High volume driveways (Type III or IV) allowed for 350 or greater trip ends/day.*
- *30' maximum for 3 car garages.*
- **No single opening shall exceed 36'. Wider driveways shall be divided w/a median not less than 6' wide.*

**Notes:**
1. 6' wide pan for residential streets.
2. All intersections to have access ramps.
3. 6' Curb Height.
4. 0' Curb Height.
5. All of these pedestrian improvements must be in ROW or a pedestrian or public access easement.
6. Truncated Dome Warning Detection.
NOTES:

1. 6' wide pan for residential streets.
2. All intersections to have access ramps.
4. 0' Curb Height, See Section A-A
5. All of these pedestrian improvements must be in ROW or a pedestrian or public access easement.
6. Pedestrian landing area, minimum required 4 ft. Length x 4 ft width, max slope in any direction is 1:50 or 1/2 per foot.
7. Detectable Warning to extend the full width of the landing area and be 2.0' in the direction of travel beginning 6' from flowline. Material to be approved by the local engineer.
8. T = Concrete thickness, 6' for Residential and 8' for Commercial

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>APPROACH TYPE</th>
<th>MINIMUM WIDTH</th>
<th>MAXIMUM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDENTIAL:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Family</td>
<td>I or II</td>
<td>12'</td>
<td>24'</td>
</tr>
<tr>
<td>Multi Family</td>
<td>I, II, III, or IV</td>
<td>24'</td>
<td>36'</td>
</tr>
<tr>
<td>Commercial</td>
<td>I, II, III, or IV</td>
<td>24'</td>
<td>36'</td>
</tr>
<tr>
<td>Industrial</td>
<td>I, II, III, or IV</td>
<td>24'</td>
<td>36'</td>
</tr>
</tbody>
</table>

- High volume driveways (Type III or IV) allowed for 350 or greater trip ends/day.
- * 30' maximum for 3 car garages.
- ** No single opening shall exceed 36'. Wider driveways shall be divided w/a median not less than 6' wide.
**Plan View**

**Section A-A**

Transition from C & G section to pan section, typical both sides.

6' Minimum (Local)

8' Minimum (Collector)

10' Minimum (Arterial)

*8" Min. for residential. Use concrete pavement design + 1/2" for collector & arterials.

**NOTE:** All intersections to have access ramps

<table>
<thead>
<tr>
<th>PARALLEL STREET CLASSIFICATION</th>
<th>W CROSS PAN WIDTH</th>
<th>LOVELAND DEPTH OF INVERT</th>
<th>FT. COLLINS DEPTH OF INVERT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arterial</td>
<td>10'</td>
<td>d (MIN.)</td>
<td>d (MAX.)</td>
</tr>
<tr>
<td>Collector</td>
<td>8'</td>
<td>1 1/4&quot;</td>
<td>2 1/2&quot;</td>
</tr>
<tr>
<td>Local</td>
<td>6' **</td>
<td>3/4&quot;</td>
<td>1 1/2&quot;</td>
</tr>
</tbody>
</table>

****8' Min. width where crossing a collector roadway.
Notes:
1. Length of steel plate varies.
2. Chase and cover plate run from Right of Way line to flow line unless approved by the Engineer.
   With curb walk, cover plate extends from property line to top of walk face.

PLAN VIEW

SECTION C-C

5/8" Rolled Steel Tread Plate
1/2" x 3/4" Flat Head Mach.
Screw Brass or Electro-galv.
finish 12" on center (typical both sides)

Concrete to be drilled to allow
screw to extend into the concrete
(typical both sides).

3' #4 Bar Welded at 12" on
center, Nelson Standard Anchor
or equivalent. (typical both sides)

SECTION B-B

5/8" Rolled Steel Tread Plate
(diamond pattern)
Dimension Variable

SECTION A-A (2 VIEWS)

STANDARD DETAILS FOR DRAINAGE UNDER SIDEWALK

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION DRAWINGS

REVISION NO: 1

DATE: 04/01/07

DRAWING 709
Asphalt paving detail (Crosspan)

T = Thickness of Crosspan
W = Width of Crosspan

*If subgrade is flyash treated, use T instead of 2T.
**Bus Bay Transition Lengths**

<table>
<thead>
<tr>
<th>Speed Limit</th>
<th>Lead in Length (Li) (ft.)</th>
<th>Lead Out Length (Lo) (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;35</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>40</td>
<td>100</td>
<td>70</td>
</tr>
<tr>
<td>45</td>
<td>150</td>
<td>80</td>
</tr>
<tr>
<td>50</td>
<td>200</td>
<td>90</td>
</tr>
<tr>
<td>55</td>
<td>250</td>
<td>100</td>
</tr>
</tbody>
</table>

**Note:**
1. Length of bus pad varies as directed by the Local Entity.
2. All pads shall be a minimum of 10" thick concrete.
SUBDRAIN SERVICE DETAIL

FORT COLLINS ONLY

PLAN VIEW

- Sanitary Sewer Main
- Subdrain Main
- Sanitary Service
- Subdrain Service (No Perforations)
- Reducing WYE
- Stake Identifier (Sanitary Sewer)
- Stake Identifier (Subdrain)
- Trench
- Sanitary Sewer Main
- Bedding

CROSS SECTION

- Subdrain Main (Non-Perforated Pipe)
- Pipe Sizes to be specified by the approved plans.

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION DRAWINGS

REVISION NO: 713.1F

DATE: 04/01/07
Initial lift shall not exceed 3 feet in depth.

NOTE: All underdrain mains will be pressure tested and video taped by contractor.
NOTE:

1. See SD 704, 704-B or 705 for more details.
2. Medians may also be painted; see Chapter 7.

* 7' (4' Retrofit) in Fort Collins and 4' in Loveland.
STREET
ALLEY W/ SIDE DRAINAGE
Drainage May Cross the Walk Up to a Maximum of 0.5 cfs for the Design 2 Year Storm.

STREET
ALLEY W/ CENTER DRAINAGE
Drainage May Not Cross the Walk Unless The Water is Sheet Flow and does not interfere with pedestrian use of walk.

ALLEY INTERSECTIONS
LARIMER COUNTY URBAN AREA STREET STANDARDS
CONSTRUCTION DRAWINGS
REVISION NO: 2
DATE: 04/01/07
DRAWING 803
NOTES:
1. Asphalt or concrete driveway.
2. F.E.S. required for each end of pipe. Reinforced concrete F.E.S. rec'd. in Ft. Collins City Limits. Drain pipe to be 15" minimum diameter.
3. Ditch must be no more than 4:1 sideslope & sodded throughout.

ACCESS ON RURAL ROADWAYS (W/O CURB AND GUTTER)
LARIMER COUNTY URBAN AREA STREET STANDARDS CONSTRUCTION DRAWINGS
REVISION NO: 2 DRAWING
DATE: 04/01/07  901