<table>
<thead>
<tr>
<th>DETAIL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-5</td>
<td>AREA DRAIN</td>
</tr>
<tr>
<td>DR-105</td>
<td>SINGLE INLET (PRECAST)</td>
</tr>
<tr>
<td>DR-110</td>
<td>DOUBLE INLET (PRECAST)</td>
</tr>
<tr>
<td>DR-115</td>
<td>TRIPLE INLET (PRECAST)</td>
</tr>
<tr>
<td>DR-132</td>
<td>FRAME AND GRADE FOR FLUSH MOUNTED INLET</td>
</tr>
<tr>
<td>DR-133</td>
<td>SQUARE MANHOLE FRAME</td>
</tr>
<tr>
<td>DR-134</td>
<td>ROUND MANHOLE FRAME</td>
</tr>
<tr>
<td>DR-135</td>
<td>ROUND MANHOLE FRAME (RECESSED TYPE)</td>
</tr>
<tr>
<td>DR-150</td>
<td>STRAIGHT ENDWALL FOR CIRCULAR PIPE</td>
</tr>
<tr>
<td>DR-151</td>
<td>STRAIGHT ENDWALL FOR ARCH PIPE</td>
</tr>
<tr>
<td>DR-152</td>
<td>CONCRETE HEADWALL WITH WINGS</td>
</tr>
<tr>
<td>DR-160</td>
<td>CONCRETE LINED DITCH</td>
</tr>
<tr>
<td>DR-161</td>
<td>TYPICAL STABILIZED DITCH SECTION</td>
</tr>
<tr>
<td>ST-101A</td>
<td>LOW &amp; MEDIUM DENSITY URBAN RESIDENTIAL ACCESS LANE</td>
</tr>
<tr>
<td>ST-101B</td>
<td>LOW &amp; MEDIUM DENSITY URBAN RESIDENTIAL ACCESS STREET</td>
</tr>
<tr>
<td>ST-102</td>
<td>HIGH DENSITY URBAN RESIDENTIAL ACCESS LANE</td>
</tr>
<tr>
<td>ST-105</td>
<td>HIGH DENSITY URBAN ACCESS STREET</td>
</tr>
<tr>
<td>ST-106</td>
<td>LOW &amp; MEDIUM DENSITY URBAN RESIDENTIAL COLLECTOR STREET</td>
</tr>
<tr>
<td>ST-108</td>
<td>HIGH DENSITY URBAN RESIDENTIAL COLLECTOR OR</td>
</tr>
<tr>
<td>ST-109</td>
<td>LOW &amp; MEDIUM DENSITY URBAN COMMUNITY COLLECTOR</td>
</tr>
<tr>
<td>ST-111</td>
<td>HIGH DENSITY URBAN COMMUNITY COLLECTOR STREET</td>
</tr>
<tr>
<td>ST-112</td>
<td>NON-RESIDENTIAL ACCESS STREET</td>
</tr>
<tr>
<td>ST-121</td>
<td>NON-RESIDENTIAL COMMUNITY COLLECTOR</td>
</tr>
<tr>
<td>ST-200</td>
<td>CUL-DE-SAC DETAILS</td>
</tr>
<tr>
<td>ST-201</td>
<td>STANDARD CURB WITH GUTTER</td>
</tr>
<tr>
<td>ST-202</td>
<td>CONCRETE POST CURB</td>
</tr>
<tr>
<td>ST-203</td>
<td>MOUNTABLE CURB WITH GUTTER</td>
</tr>
<tr>
<td>ST-204</td>
<td>HIGH PROFILE EXTRUDED CURB</td>
</tr>
<tr>
<td>ST-210</td>
<td>CONCRETE SIDEWALK AND HAUNCHED CURB</td>
</tr>
<tr>
<td>ST-211</td>
<td>STANDARD CONCRETE SIDEWALK</td>
</tr>
<tr>
<td>ST-212</td>
<td>STANDARD CURB RAMP NOTES</td>
</tr>
<tr>
<td>ST-213</td>
<td>HAUNCHED CURB AND CONCRETE SIDEWALK (RES)</td>
</tr>
<tr>
<td>ST-217</td>
<td>EXPANSION JOINT &amp; CONTROL JOINT</td>
</tr>
<tr>
<td>ST-270</td>
<td>TRENCH REPAIR WITHIN ROADWAY</td>
</tr>
<tr>
<td>ST-271</td>
<td>TRENCH REPAIR OUTSIDE ROADWAY</td>
</tr>
<tr>
<td>ST-304</td>
<td>PARALLEL CURB RAMP</td>
</tr>
<tr>
<td>ST-305</td>
<td>PARALLEL CURB RAMP WITH A DROP LANDING - 2' GRASS STRIP</td>
</tr>
<tr>
<td>ST-306</td>
<td>CURB RAMPS AT MARKED CROSSINGS</td>
</tr>
<tr>
<td>ST-307</td>
<td>FRAME AND GRADE FOR VERTICAL CURB &amp; GUTTER</td>
</tr>
<tr>
<td>ST-313</td>
<td>RESIDENTIAL CONCRETE DRIVEWAY RAMP</td>
</tr>
<tr>
<td>ST-314</td>
<td>COMMERCIAL CONCRETE DRIVEWAY RAMP</td>
</tr>
</tbody>
</table>
CAST IRON FRAME & COVER AS MANUFACTURED BY JOHN BOUCHARD & SONS CO. NO. 2418, OR APPROVED EQUAL

PLAN

GROUT CONNECTION

TOP OF CASTING ELEVATION (SEE PLANS)

SECTION "A"

NO. 5 REINFORCING BAR @ 8" O.C.

FORM SMOOTH INVERT TO 0/2 HEIGHT

48" X 6" OPENINGS ALL FOUR SIDES

NOTE:
1. WHEN DEPTH EXCEEDS 4' INCREASE MIN. WIDTH TO 4'-0".
2. WHEN DEPTH IS 4' OR LESS, BRICK MAY BE USED IN LIEU OF CONCRETE SIDE WALLS.
3. USE LADDER BARS (DWG. E-103) FOR DEPTH EXCEEDING 4'.

AREA DRAIN

DETAIL NO.: B-5
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTE: CASTING FOR MT. JULIET
STANDARD CURB AND GUTTER
SECTION ST-200 FOR NON-RESIDENTIAL
STREETS

MIN. OF 3 BRICK
ADJUSTMENT
COURSES

TOP OF CURB

JOHN BOUCHARD
& SONS NO. 3101
OR APPROVED
EQUAL

MIN. SLOPE
1" IN 12"

AS REQUIRED

6'-4"

SECTION A-A

CONCRETE: 4000 PSI AT 28 DAYS
MIN. REINFORCEMENT: 0.14 SQ. IN./SQ. FT.
GRADE 60 STEEL

SECTION B-B

SINGLE INLET (PRECAST)

DETAIL NO.: DR-105
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
BACK OF CURB

CAST IRON LINTEL TO BE 1"x 6"x 33" OR K+10" FOR PIPES 24" AND LARGER

PLAN

TOP OF CURB

SECTION A-A

MIN SLOPE 3/8" IN 12"

MIN OF 3 BRICK ADJUSTMENT COURSES

JOHN BOUCHARD & SONS
NO. 3101 CASTING OR APPROVED EQUAL.

NOTE: CASTING FOR MT. JULIET
STANDARD CURB AND GUTTER
SECTION ST-200 FOR NON-RESIDENTIAL STREETS
CONCRETE: 4000 PSI AT 28 DAYS
MIN. REINFORCEMENT: 0.14 SQ. IN/SQ. FT.
GRADE 60 STEEL

DOUBLE INLET (PRECAST)

DETAIL NO.: DR-110
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
USE $K = 1.250$ FOR 24" AND LARGER PIPES (D=OUTSIDE PIPE DIAMETER)

CAST IRON LINTEL TO BE 1"x 6"x 38" OR K+10" FOR PIPES 24" AND LARGER

MIN. SLOPE 3/4" IN 12"

NOTE: CASTING FOR MT. JULIET STANDARD CURB AND GUTTER SECTION ST 200 FOR NON-RESIDENTIAL STREETS.

CONCRETE: 4000 PSI AT 28 DAYS
MIN. REINFORCEMENT: 0.14 SQ. IN./SQ. FT. GRADE 60 STEEL

TRIPLE INLET (PRECAST)

DETAIL NO.: DR-115
SCALE: NONE
CITY OF MT. JULIET PUBLIC WORKS DEPARTMENT
NOTES:
OMIT BASE FLANGE ON ONE SIDE OF FRAME FOR DOUBLE INSTALLATIONS AND END FRAMES OF OTHER MULTIPLE INSTALLATIONS. OMIT ON TWO (2) SIDES (OPPOSITE) FOR CENTER UNITS OF MULTIPLE INSTALLATIONS. FOR INSTALLATION WITH CURB INLET TYPE "A" OMIT BASE ON ONE SIDE OF SINGLE, TWO ADJACENT SIDES OF DOUBLE, AND THREE SIDES OF CENTER UNITS OF OTHER MULTIPLE INSTALLATIONS.

CASTINGS TO BE CLEANED AND PAINTED WITH BITUMINOUS COATING AFTER MACHINING.

NOTE:
CONTACT SURFACES OF FRAME AND GRATE MARKED "F" ARE TO BE GROUND.

SECTION C-C
TOTAL AREA OF ALL OPENINGS = 2.94 S.F.

SECTION B-B

FRAME AND GRATE FOR FLUSH MOUNTED INLET

DETAIL NO.: DR-132
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTE: CONTACT SURFACE OF FRAME MARKED *f
IS TO BE MACHINED.

CASTINGS TO BE CLEANED AND
PAINTED WITH BITUMINOUS COATING.

SQUARE MANHOLE FRAME
DETAIL NO.: DR-133
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTE: CONTACT SURFACE OF FRAME MARKED 'f' IS TO BE MACHINED.

CASTINGS TO BE CLEANED AND PAINTED WITH BITUMINOUS COATING

SECTION A-A

ROUND MANHOLE FRAME

DETAIL NO.: DR-134
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTE: CONTACT SURFACE OF FRAME MARKED *f* IS TO BE MACHINED.

SECTION A-A

CASTINGS TO BE CLEANED AND PAINTED WITH BITUMINOUS COATING.

ROUND MANHOLE FRAME (RECESSED TYPE)

DETAIL NO.: DR-135
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
EARTH BEYOND

ALL EXPOSED EDGES TO BE CHAMFERED ONE INCH

SLOPE SIDES OF DITCH AS SHOWN ON PLAN

---

CLASS "A" CONCRETE OR MORTARED STONE MASONRY

---

<table>
<thead>
<tr>
<th>D</th>
<th>H</th>
<th>B</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>12''</td>
<td>3'-8&quot;</td>
<td>1'-11&quot;</td>
<td>4'-0&quot;</td>
</tr>
<tr>
<td>15''</td>
<td>3'-11&quot;</td>
<td>1'-11¼&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>18''</td>
<td>4'-2&quot;</td>
<td>2'-0 ½&quot;</td>
<td>6'-0&quot;</td>
</tr>
<tr>
<td>21''</td>
<td>4'-5&quot;</td>
<td>2'-1 ¼&quot;</td>
<td>7'-0&quot;</td>
</tr>
<tr>
<td>24''</td>
<td>4'-8&quot;</td>
<td>2'-2&quot;</td>
<td>8'-0&quot;</td>
</tr>
<tr>
<td>30''</td>
<td>5'-2&quot;</td>
<td>2'-3 ½&quot;</td>
<td>9'-0&quot;</td>
</tr>
</tbody>
</table>

STRAIGHT ENDCAP FOR CIRCULAR PIPE

DETAIL NO.: DR-150
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
ELEVATION

SECTION

<table>
<thead>
<tr>
<th>S x R</th>
<th>H</th>
<th>B</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>18&quot;x11&quot;</td>
<td>3' 7&quot;</td>
<td>1'-10 3/4</td>
<td>4'-3&quot;</td>
</tr>
<tr>
<td>22&quot;x3 1/2&quot;</td>
<td>3'-9&quot;</td>
<td>1'-11 1/4</td>
<td>5'-1&quot;</td>
</tr>
<tr>
<td>26&quot;x5 1/2&quot;</td>
<td>4'-0&quot;</td>
<td>2'-0&quot;</td>
<td>6'-1&quot;</td>
</tr>
<tr>
<td>28&quot; 1/2x18&quot;</td>
<td>4'-2&quot;</td>
<td>2'-0 1/2</td>
<td>6'-11&quot;</td>
</tr>
<tr>
<td>36 1/4&quot;x22&quot;</td>
<td>4'-6&quot;</td>
<td>2'-1 1/2</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>43&quot; x 27&quot;</td>
<td>4'-11&quot;</td>
<td>2'-2 3/4</td>
<td>10'-4&quot;</td>
</tr>
<tr>
<td>50&quot; x 31&quot;</td>
<td>5'-3&quot;</td>
<td>2'-3 3/4</td>
<td>11'-11&quot;</td>
</tr>
</tbody>
</table>

SLOPE SIDES OF DITCH 1-1/2" TO 1

ALL EDGES OF EXPOSED SURFACES TO BE CHAMFERED ONE INCH.

EARTH BEYOND

3500 P.S.I. CONCRETE OR MORTARED STONE MASONRY

6X6 W1.4 X W1.4 W.W.M.

STRAIGHT ENDWALL FOR ARCH PIPE

DETAIL NO.: DR-151
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>A</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>T (MIN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15&quot;</td>
<td>2-5&quot;</td>
<td>5-0&quot;</td>
<td>2-6&quot;</td>
<td>1-9&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>18&quot;</td>
<td>2-5&quot;</td>
<td>5-0&quot;</td>
<td>2-6&quot;</td>
<td>1-9&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>21&quot;</td>
<td>2-5&quot;</td>
<td>5-0&quot;</td>
<td>2-6&quot;</td>
<td>1-9&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>24&quot;</td>
<td>4-0&quot;</td>
<td>6-6&quot;</td>
<td>4-0&quot;</td>
<td>3-3&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>30&quot;</td>
<td>4-0&quot;</td>
<td>6-6&quot;</td>
<td>4-0&quot;</td>
<td>3-3&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>36&quot;</td>
<td>5-5&quot;</td>
<td>8-0&quot;</td>
<td>3-6&quot;</td>
<td>4-5&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>42&quot;</td>
<td>5-5&quot;</td>
<td>8-0&quot;</td>
<td>3-6&quot;</td>
<td>4-5&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>48&quot;</td>
<td>5-5&quot;</td>
<td>8-0&quot;</td>
<td>3-6&quot;</td>
<td>4-5&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>54&quot;</td>
<td>7-0&quot;</td>
<td>9-5&quot;</td>
<td>4-6&quot;</td>
<td>5-9&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>60&quot;</td>
<td>7-0&quot;</td>
<td>9-5&quot;</td>
<td>4-6&quot;</td>
<td>5-9&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>66&quot;</td>
<td>8-6&quot;</td>
<td>11-0&quot;</td>
<td>5-6&quot;</td>
<td>6-11&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>72&quot;</td>
<td>8-6&quot;</td>
<td>11-0&quot;</td>
<td>5-6&quot;</td>
<td>6-11&quot;</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

CONCRETE:
4000 PSI AT 28 DAYS REINFORCED WITH NO. 4 BARS 10" CC EACH WAY WITH WINGS AND TOE SLAB DOWELLED TO HEADWALL WITH NO. 5 BARS.

34° CHAMFER ON ALL EXPOSED EDGES.

CONCRETE HEADWALL

DRAWING NO.: DR-152
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
TYPICAL SECTION
NOT TO SCALE

TYPICAL SECTION AT EXPANSION JOINTS
NOT TO SCALE

NOTE:
1. TRANSVERSE GROOVE MARKING TO BE PLACED IN TOP OF CONCRETE AT 10' O.C. BETWEEN EXPANSION JOINTS.
2. TOP SURFACE OF CONCRETE LINING TO HAVE A LIGHT, BROOM FINISH.

CONSTRUCTION JOINTS SHALL BE USED ONLY WHERE DEPTH OF LINING PERMITS A MINIMUM DEPTH OF 2'-4" OF LINING ABOVE THE JOINTS AS SHOWN IN TYPICAL SECTION ABOVE.

CONCRETE LINED DITCH

DRAWING NO.: DR-160
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
b = PIPE DIAMETER + 2 FEET

T = b + 4d

d = 1/2 PIPE DIAMETER
ROADWAY SECTION
NOT TO SCALE

NOTE:
SIDEWALK NOT REQUIRED ON PERMANENT DEAD-END STREETS LESS THAN 300' IN LENGTH.

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 8" STONE (GRADING D PUG MILL MIX)
ROADWAY SECTION
NOT TO SCALE

NOTE.
SIDEWALK NOT REQUIRED ON PERMANENT DEAD-END STREETS LESS THAN 300' IN LENGTH.

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 8" STONE (GRADING D PUG MILL MIX)
NOTES:
(A) SIDEWALK REQUIRED ONLY ON ONE SIDE OF STREET.
(B) 4:1 MAX. SLOPE REQUIRED ON SIDE OF STREET WITHOUT SIDEWALK.

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 10" STONE (GRADING D PUG MILL MIX)
ROADWAY SECTION
NOT TO SCALE

NOTES:
(A) 25' PAVEMENT REQUIRED FOR STREET WITH 2000 OR LESS ADT.
(B) 27' PAVEMENT REQUIRED FOR STREET WITH 2000 OR MORE ADT.
(C) SIDEWALK REQUIRED ONLY ON ONE SIDE OF STREET.

PAVING SCHEDULE
1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2 TACK COAT (SS-1)
3 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4 PRIME COAT (RS-2)
5 8" STONE (GRADING D PUG MILL MIX)
NOTES:
(A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 10" STONE (GRADING D PUG MILL MIX)
NOTES:

(A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.

ROADWAY HALF SECTION
NOT TO SCALE

EXTRUDED CURB
SEE STANDARD DRAWING ST-203

PAVEMENT COURSES
NOT TO SCALE

(PARTIAL) #5 REBAR
@ 6' O.C.

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 10" STONE (GRADING D PUG MILL MIX)
ROADWAY HALF SECTION
NOT TO SCALE

PAVEMENT COURSES
NOT TO SCALE

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. TACK COAT (SS-1)
5. 4" ASPHALTIC CONCRETE BASE (307A)
6. PRIME COAT (RS-2)
7. 8" STONE (GRADING D PUG MILL MIX)

NOTES:

(A) SIDEWALK REQUIRED ONLY ON ONE SIDE OF STREET.
(B) 4:1 MAX. SLOPE REQUIRED ON SIDE OF STREET WITHOUT SIDEWALK.

NON-RESIDENTIAL ACCESS STREET

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

DETAIL: ST-111

09-22-03
ROADWAY HALF SECTION
NOT TO SCALE

CURB AND GUTTER SECTION
SEE STANDARD DRAWING ST-200

PAVEMENT COURSES
NOT TO SCALE

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. TACK COAT (SS-1)
5. 4" ASPHALTIC CONCRETE BASE (307A)
6. PRIME COAT (RS-2)
7. 8" STONE (GRADING D PUG MILL MIX)

NOTES:

(A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.

(B) RIGHT-OF-WAY SHOWN IS MINIMUM REQUIRED.

NON-RESIDENTIAL
COMMUNITY COLLECTOR

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

DETAIL: ST-112

09-22-03
STANDARD CUL-DE-SAC DETAIL

OFFSET CUL-DE-SAC DETAIL

FOR RIGHT-OF-WAY = 50'
FOR RIGHT-OF-WAY = 40'

CUL-DE-SAC DETAILS

DRAWING NO. ST-121
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
TYPICAL CROSS SECTION

FRONT VIEW

GENERAL NOTES:

1. EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.

2. EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.

3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.

4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.

5. COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER.

6. FOR USE ON NON-RESIDENTIAL STREETS.

STANDARD CURB WITH GUTTER

DRAWING NO. ST-200

SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.

2. EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.

3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.

4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.

5. COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER.

6. MT. JULIET STANDARD PRIOR TO JULY 17, 2003.

MOUNTABLE CURB WITH GUTTER

DRAWING NO.: ST-202
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. WHERE CONCRETE MEDIAN PAVEMENT IS Poured BEHIND EXTRUDED 8-INCH CONCRETE CURB, IT MAY BE POURED MONOLITHICALLY WITH THE CURB.

2. THE EXTRUDED 8-INCH CONCRETE CURB IS TO BE USED AS THE STANDARD FOR RESIDENTIAL STREETS AND ROADS.

3. WHERE CURB INLETS ARE REQUIRED, USE JOHN BOUCHARD & SONS CO. GRATE NOS. 3103 OR 3103-V, OR APPROVED & EQUAL.


5. RESIDENTIAL DRIVEWAYS: CURB TO BE CUT TO CONFORM TO STANDARD DRAWING NO. ST-313.

HIGH PROFILE EXTRUDED CURB

DRAWING NO. ST-203

SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

08-20-03
CONCRETE SIDEWALK
AND HAUNCHED CURB

DETAIL NO.: ST-204
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

PROVIDE CONTROL JOINTS PER DETAIL ST-213 SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL ST-213 EVERY 20 FT.
GENERAL NOTES:
1. SIDEWALKS SHALL BE A MINIMUM OF 4 INCHES IN THICKNESS AND MAINTAIN A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.
2. MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
3. SIDEWALK SHALL BE CONSTRUCTED OF WHITE CONCRETE PER DEPARTMENT OF PUBLIC WORKS TECHNICAL SPECIFICATIONS.
4. WHERE A GRASS AREA IS NOT PROVIDED, A MAXIMUM OF 2 FEET FURNISHING ZONE IS REQUIRED, MAINTAINING A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.

STANDARD CONCRETE SIDEWALK

DRAWING NO.: ST-210
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTES:
(A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.

PAVING SCHEDULE
1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. PRIME COAT (RS-2)
5. 10" STONE (GRADING D PUG MILL MIX)
ROADWAY HALF SECTION
NOT TO SCALE

PAVEMENT COURSES
NOT TO SCALE

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. TACK COAT (SS-1)
5. 4" ASPHALTIC CONCRETE BASE (907A)
6. PRIME COAT (RS-2)
7. 8" STONE (GRADING D PUG MILL MIX)

NOTES:
(A) SIDEWALK REQUIRED ONLY ON ONE SIDE OF STREET.
(B) 4:1 MAX. SLOPE REQUIRED ON SIDE OF STREET WITHOUT SIDEWALK.

NON-RESIDENTIAL ACCESS STREET

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

DETAIL: ST-111

09-22-03
ROADWAY HALF SECTION
NOT TO SCALE

CURB AND GUTTER SECTION
SEE STANDARD DRAWING ST-200

PAVEMENT COURSES
NOT TO SCALE

PAVING SCHEDULE

1. 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
2. TACK COAT (SS-1)
3. 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
4. TACK COAT (SS-1)
5. 4" ASPHALTIC CONCRETE BASE (307A)
6. PRIME COAT (RS-2)
7. 8" STONE (GRADING D; PUG MILL MIX)

NOTES:
(A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.
(B) RIGHT-OF-WAY SHOWN IS MINIMUM REQUIRED.

NON-RESIDENTIAL COMMUNITY COLLECTOR

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

DETAIL: ST-112

09-22-03
STANDARD CUL-DE-SAC DETAIL

OFFSET CUL-DE-SAC DETAIL

FOR RIGHT-OF-WAY = 50'
FOR RIGHT-OF-WAY = 40'

PAVEMENT WIDTH MAY VARY

CUL-DE-SAC DETAILS
DRAWING NO. ST-121
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.

2. EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.

3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.

4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.

5. COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER.

6. FOR USE ON NON-RESIDENTIAL STREETS.
GENERAL NOTES:

1. EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.

2. EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.

3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.

4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.

5. COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER.

6. MT. JULIET STANDARD PRIOR TO JULY 17, 2003.

MOUNTABLE CURB WITH GUTTER

DRAWING NO.: ST-202
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
TYPICAL CROSS-SECTION

GENERAL NOTES:

1. WHERE CONCRETE MEDIAN PAVEMENT IS POURED BEHIND EXTRUDED 8-INCH CONCRETE CURB, IT MAY BE POURED MONOLITHICALLY WITH THE CURB.

2. THE EXTRUDED 8-INCH CONCRETE CURB IS TO BE USED AS THE STANDARD FOR RESIDENTIAL STREETS AND ROADS.

3. WHERE CURB INLETS ARE REQUIRED, USE JOHN BOUCHARD & SONS CO. GRATE NOS. 3103 OR 3103-V, OR APPROVED & EQUAL.


5. RESIDENTIAL DRIVEWAYS: CURB TO BE CUT TO CONFORM TO STANDARD DRAWING NO. ST-313.

HIGH PROFILE EXTRUDED CURB

DRAWING NO. ST-203
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

08-20-03
CONCRETE SIDEWALK
AND HAUNCHCHED CURB

DETAIL NO.: ST-204
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

PROVIDE CONTROL JOINTS PER DETAIL ST-213 SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL ST-213 EVERY 20 FT.
GENERAL NOTES:
1. SIDEWALKS SHALL BE A MINIMUM OF 4 INCHES IN THICKNESS AND MAINTAIN A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.
2. MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL NOT EXCEED 1:48 (VERTICAL: HORIZONTAL).
3. SIDEWALK SHALL BE CONSTRUCTED OF WHITE CONCRETE PER DEPARTMENT OF PUBLIC WORKS TECHNICAL SPECIFICATIONS.
4. WHERE A GRASS AREA IS NOT PROVIDED, A MAXIMUM OF 2 FEET FURNISHING ZONE IS REQUIRED. MAINTAINING A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.

STANDARD CONCRETE SIDEWALK

DRAWING NO.: ST-210
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
NOTES:

1. CURB RAMPS SHALL BE PROVIDED TO ALLOW ALL USERS TO MAKE THE TRANSITION IN GRADE FROM THE STREET TO THE SIDEWALK.

2. CURB RAMPS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND FINISHED ELEVATIONS AS SPECIFIED IN THE PLANS AND/OR CONTRACT DOCUMENTS AND SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROomed FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE CURB RAMP. LONGITUDINAL AND TRANSVERSE JOINT MARKINGS SHALL NOT BE ALLOWED ON THE LANDINGS OR RAMPS.

3. DRAINAGE AND UTILITY STRUCTURES SHALL NOT BE PLACED IN CURB RAMP OR LANDING.

4. THE GUTTER LINE PROFILE OF THE STREET SHALL BE MAINTAINED THROUGH THE AREA OF THE CURB RAMP.

5. THE FURNISHING ZONE BUFFERS PEDESTRIANS FROM THE ADJACENT ROADWAY AND IS ALSO AN AREA WHERE ELEMENTS SUCH AS MAIL BOXES, STREET TREES, SIGNAL POLES, UTILITY POLES, STREET LIGHTS, CONTROLLER BOXES, HYDRANTS, SIGNS, PARKING METERS, DRIVEWAY APRONS, GRATES, HATCH COVERS, AND STREET FURNITURE ARE PROPERLY LOCATED.

STANDARD CURB RAMP NOTES

DRAWING NO.: ST-211
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
HAUNCHED CURB AND CONCRETE SIDEWALK (RES.)

DETAIL NO.: ST-212
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

PROVIDE CONTROL JOINTS PER DETAIL ST-213 SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL ST-213 EVERY 20 FT.
**EXPANSION JOINT**

1/2" EXP. JOINT POLYURETHANE SEALANT

BROOM FINISH

PREMOLDED EXPANSION JOINT MATERIAL

CONCRETE

**CONTROL JOINT**

3" SMOOTH TROWEL FINISH ON EACH SIDE OF JOINT AND ALONG PERIMETER EDGE OF WALKWAY PANELS WHERE SHOWN ON DETAILED PLAN

1/4" HAND GROOVED JOINT

BROOM FINISH

BROOM FINISH

CONCRETE WALK

**DETAIL NO.: ST-213**
**SCALE: NONE**
**CITY OF MT. JULIET**
**PUBLIC WORKS DEPARTMENT**
MATCH EXISTING REBAR WITH MINIMUM SHOWN.

CLASS "A" CONCRETE

#4 BARS @ 8" O.C.

5" MIN.

DOWEL INTO EXISTING SLAB 4" MIN. TO 8" MAX.

CRUSHED STONE #67 COMPACTED IN 6" LAYERS

CONCRETE PAVEMENT

2" ASPHALTIC CONCRETE SURFACE (411D)

9" BITUMINOUS BINDER (B-M2)

DOWEL INTO EXISTING SLAB 4" MIN. TO 8" MAX.

CRUSHED STONE #67 COMPACTED IN 6" LAYERS

ASPHALTIC SURFACE (CROSSING CUTS)

2" ASPHALTIC CONCRETE SURFACE

CRUSHED STONE #67 COMPACTED IN 6" LAYERS

ASPHALTIC SURFACE (PARALLEL CUTS)

GENERAL NOTES:

1. ALL WORK SHALL BE FIELD CHECKED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ITS BEGINNING AND AFTER COMPLETION THEREOF.

2. INSPECTION PERSONNEL OF THE DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO COMMENCING WORK.

3. THE WORK PERFORMED SHALL BE FREE FROM WORKMANSHIP DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION.

4. EXISTING PAVEMENTS, BASES, CURBS & GUTTERS AND SIDEWALKS SHALL BE CUT AND BROUGHT TO A NEAT LINE BY USE OF AN AIR HAMMER, SAW OR OTHER SUITABLE EQUIPMENT. EXPANSION JOINTS REMOVED SHALL BE REPLACED.

5. THE MINIMUM WIDTH TO BE TRIMMED ON EACH SIDE OF THE TRENCH LINE, AS SEEN IN THE SECTION, MAY BE WAIVED OR AMENDED UPON APPROVAL OF THE INSPECTOR; HOWEVER, A MINIMUM WIDTH OF REPLACEMENT SHALL BE 4'-0" TO ALLOW FOR PROPER COMPACTION.

6. IF PERMANENT PAVEMENT REPAIRS CANNOT BE MADE WITHIN THREE (3) DAYS, THEN TEMPORARY REPLACEMENT SHALL BE MADE WITH 2" COLD MIX OR HOT BITUMINOUS SEAL COAT OVER COMPACTED CRUSHED STONE.

7. ALL EXCAVATIONS MADE WITHIN PUBLIC RIGHT-OF-WAY REQUIRE EXCAVATIONS AND STREET CLOSURE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING WORK.

8. FLOWABLE FILL SHALL MEET THE REQUIREMENTS IN TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 204.

TRENCH REPAIR WITHIN ROADWAY

DETAIL NO.: ST-270
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. ALL WORK SHALL BE FIELD CHECKED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ITS BEGINNING AND AFTER COMPLETION THEREOF.

2. INSPECTION PERSONNEL OF THE DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO COMMENCING WORK.

3. THE WORK PERFORMED SHALL BE FREE FROM WORKMANSHIP DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION.

4. EXISTING PAVEMENTS, BASES, CURBS & GUTTERS, AND SIDEWALKS SHALL BE CUT AND BROUGHT TO A NEAT LINE BY USE OF AN AIR HAMMER, SAW, OR OTHER SUITABLE EQUIPMENT. EXPANSION JOINTS REMOVED SHALL BE REPLACED.

5. THE MINIMUM WIDTH TO BE TRIMMED ON EACH SIDE OF THE TRENCH LINE AS SEEN IN THE SECTION MAY BE WAIVED OR AMENDED UPON APPROVAL OF THE INSPECTOR; HOWEVER, A MINIMUM WIDTH OF REPLACEMENT SHALL BE 4'-0" TO ALLOW FOR PROPER COMPACTION.

6. IF PERMANENT PAVEMENT REPAIRS CANNOT BE MADE WITHIN THREE (3) DAYS, THEN TEMPORARY REPLACEMENT SHALL BE MADE WITH 2" COLD MIX OR HOT BITUMINOUS SEAL COAT OVER COMPACTED CRUSHED STONE.

7. ALL EXCAVATIONS MADE WITHIN PUBLIC RIGHT-OF-WAY REQUIRE EXCAVATIONS AND STREET CLOSURE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING WORK.
GENERAL NOTES:
1. LANDING SHALL BE FLUSH WITH THE GUTTER OR EDGE OF PAVEMENT.
3. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
4. BACK CURB HEIGHT ALONG RAMPS SHALL TRANSITION FROM ZERO (0) INCHES AT EXPANSION JOINTS TO SIX (6) INCHES AT LANDING AND SHALL BE A CONSTANT HEIGHT OF SIX (6) INCHES THROUGH LANDING. CROSS-SLOPE (BACK TO FRONT) OF TOP OF BACK CURB SHALL BE THE SAME AS SIDEWALK CROSS-SLOPE.
5. HIGH SIDE AND LOW SIDE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL: HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED EIGHT (8) FEET (96 INCHES) IN LENGTH.

PARALLEL CURB RAMP

DRAWING NO. ST-304
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. LANDING SHALL BE FLUSH WITH THE GUTTER OR EDGE OF PAVEMENT.

2. CROSS-SLOPE OF LANDING AND OF SIDEWALK SHALL NOT EXCEED 1:46 (VERTICAL: HORIZONTAL).

3. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROomed FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.

4. BACK CURB HEIGHT ALONG RAMPs SHALL TRANSITION FROM 0 INCHES AT EXPANSION JOINTS TO 6 INCHES AT LANDING AND SHALL BE A CONSTANT HEIGHT OF 6 INCHES THROUGH LANDING. CROSS-SLOPE (BACK TO FRONT) OF TOP OF BACK CURB SHALL BE THE SAME AS SIDEWALK CROSS-SLOPE.

5. HIGH SIDE AND LOW SIDE RAMPs SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL: HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED 8 FEET (96 INCHES) IN LENGTH.

PARALLEL CURB RAMP WITH A DROP LANDING
2' GRASS STRIP

DETAIL: ST-305
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT
GENERAL NOTES:

1. SEE CURB RAMP STANDARD DRAWINGS FOR CONSTRUCTION DETAILS.

2. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS.

3. ALL MARKINGS TO CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
NOTES:

1. CONTACT SURFACES OF FRAME MARKED \( \checkmark \) ARE TO BE GROUND.

2. FRAME TO BE SIZED FOR MOUNTING EITHER VANE OR SUMP TYPE GRATE.

3. CASTINGS TO BE CLEANED AND PAINTED WITH BITUMINOUS COATING.

FRAME AND GRATE FOR VERTICAL CURB & GUTTER

DETAIL NO.: ST-307
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

RESIDENTIAL CONCRETE DRIVeway RAMP
DETAIL NO.: ST-313
SCALE: NONE
CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

COMMERCIAL CONCRETE DRIVeway RAMP

DETAIL NO.: ST-314
SCALE: NONE

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT