PUBLIC WORKS DEPARTMENT
CENTRAL SERVICES REPRODUCTION
111 NW 1ST STREET
SUITE 1600
MIAMI, FL 33128-1970
305-375-2690
October 26, 1990

TO WHOM IT MAY CONCERN:

Re: Revised Standard Details of Part 1, Public Works Manual

Attached are current revised Standard Details of Part 1 of the Public Works Manual. These replace the corresponding existing sheets in your manual as follows:

ROAD DETAILS

R 19.4 (Sheet 1)
R 19.4 (Sheet 2)

for

Walter A. Berndon, Jr., P.E.
Director
Public Works Department

WAH: PW: nc
REVISIONS
June 26, 1990

TO WHOM IT MAY CONCERN:

Re: Revised Standard Details of Part 1, Public Works Manual

Attached are current revised Standard Details of Part 1 of the Public Works Manual. These replace the corresponding existing sheets in your manual as follows:

**GENERAL DETAILS**

G 2.1 (Sheet 2)
G 2.1 (Sheet 4)

The revisions as shown on G 2.1 (Sheet 2) "D", and G 2.1 (Sheet 4) "3A" show the minimum vertical clearance of any overhead facility over all Streets and Avenues of Dade County to be 16'. This is based on Section 225.16 and Section 230.24 (b), NFPA 70, National Electrical Code, 1990 Edition.

[Signature]

Walter K. Herndon, Jr., P.E.
Director
Public Works Department
TO: Honorable Harvey Ruvin  DATE: June 10, 2003
Clerk of the Courts

FROM: Aristides Rivera, P.E., P.L.S.  SUBJECT: Revision to Standards of the
Director  Public Works Manual
Public Works Department

In accordance with Section 2-100 (d) of the County Code, I am hereby filing with you
one (1) revised sheet of the Public Works Manual.

Attached for your records is sheet 1 pertaining to Plate No. R 1.1 which contains
standards for 50' right-of-way - 2 lanes, swale.

Attachment

Cc: Valerie Sandoval, Chief Personnel Division
Ovidio Rodriguez, P.E., Chief Construction Division
Francisco Rodriguez, P.E. Land Development Division
Raul Pino, P.L.S., Chief Land Development Division
Robert Borgmann, Chief Inspector Construction Division
MEMORANDUM

To: Honorable Harvey Ruvin  
   Clerk of the Courts

FROM: Aristides Rivera, P.E., P.L.S.  
      Acting Director  
      Public Works Department

DATE: March 25, 1996

SUBJECT: Revisions to Standards of the Public Works Manual

In accordance with Section 2-100 (d) of the County Code, I am hereby filing with you six (6) revised sheets of the Public Works Manual.

Attached for your records are sheets 3.1, 3.2A, 4.4, 4.5, 5.2A, 6.2 which contains standards for road details.

Attachment

cc: Valerie Sandoval, Chief
   Personnel Division
MEMORANDUM

Honorable Harvey Ruvin
Clerk of the Courts

DATE: February 23, 1999

SUBJECT: Revisions to Standards of the Public Works Manual

ROM: Arisudes Roata, P.E., P.L.S.
Acting Director
Public Works Department

In accordance with Section 2-100 (d) of the County Code, I am hereby filing with you two (2) revised sheets of the Public Works Manual.

Attached for your records are sheets 1 and 2 of 2, pertaining to Plate No. R 12.5, which contains standards for concrete driveways.

Attachment:

cc: Valerie Sandoval, Chief Personnel Division
MEMORANDUM

Honorable Harvey Ruvin
Clerk of the Courts

DATE: February 23, 1999

SUBJECT: Revisions to Standards of the Public Works Manual

OM: Aristides Rivera, P.E., F.L.S.
Acting Director
Public Works Department

In accordance with Section 2-100 (d) of the County Code, I am hereby filing with you two (2) revised sheets of the Public Works Manual.

Attached for your records are sheets 1 and 2 of 2, of Plate No. SD 2.3, which pertains to grate standards for catch basins.

Attachment

cc: Valerie Sandoval, Chief Personnel Division
MEMORANDUM

TO: Honorable Harvey Ruvin
     Clerk of the Courts

DATE: February 2, 1999

SUBJECT: Public Works Manual

FROM: Aristides Riviera, P.E., P.L.S.
      Acting Director
      Public Works Department

In accordance with Section 2-100(d) of the code we are hereby informing you that we have removed Standard Details SD 1.2 sheet 1 of 2 and SD 1.2 sheet 2 of 2 from the Public Works Manual.

Please modify your records accordingly.

AR/RCK/gl

RECEIVED
FEB 5  1999
PUBLIC WORKS DEPT.
DIRECTOR'S OFFICE
PLAN

NOTES:

1. All main valves at intersections shall be located at the intersection of the main with the projection of the R/W line.
2. All sanitary sewer manholes at intersections shall be located at the centerline of the intersecting streets.
3. Fire hydrants at intersections shall be located opposite the P.C. of the R/W line.
4. All underground utilities shall be placed parallel or perpendicular to the centerline of right of way.

GENERAL DETAIL

UTILITY PLACEMENT WITHIN PUBLIC RIGHT-OF-WAY FOR RESIDENTIAL STREETS
SECTION A-A

A MINIMUM COVER FOR LATERAL NOT CROSSING CENTERLINE

B MINIMUM COVER FOR SANITARY SEWER
1) 24" FOR EXTRA STRENGTH VC PIPE AND FOR SCHEDULE 80 CI PIPE
2) 36" FOR OTHER PIPE

C WATER METER SHALL BE PLACED AT OUTER EDGE OF SIDEWALK WHEN SIDEWALK ALREADY EXISTS, WHEN CONDITIONS PERMIT

<table>
<thead>
<tr>
<th>R/W Widths</th>
<th>Sewer and Water Main OFFSETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>50&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>60&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>70&quot;</td>
<td>17&quot;</td>
</tr>
</tbody>
</table>

NOTES:
1 ALL CONSTRUCTION OR ADJUSTMENT OF UNDERGROUND UTILITIES MUST BE COMPLETED BEFORE FINAL ASPHALT CONCRETE SURFACE MAY BE PLACED

2 ON STREETS WITH CURB AND GUTTER PLACE UTILITY PULLS AT 118" R/W LINE, AND FIRE HYDRANTS 20' FROM R/W LINE (SEE SHEET 2 I, SHEETS 1, 11)

3 WHERE UTILITY CROSSES ARTIFICAL USE MINIMUM 36" COVER THROUGH ARTIFICAL

4 (SEE SHEET 4, NOTE 6)
NOTES:
1. All main valves at intersections shall be located at the intersection of the main with the projection of the R/W line.
2. Fire hydrants at intersections shall be located opposite the PC of the R/W line.
3. All underground utilities shall be placed parallel or perpendicular to the centerline of right-of-way.
4. Access manholes shall not be placed in traffic lanes unless special approval is obtained. Median and sidewalk areas shall be used.
NOTES:
1. PLASTIC FILTER FABRIC (AT EA SIDE) SHALL BE USED IN SANDY AREAS AS NOTED
   ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.

2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING
   GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.

3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT
   SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO
   ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR IF IT DOES TAKE
   PLACE. ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE
   BALLAST ROCK TO THE PROPER ELEVATION SO THAT THE EXFILTRATION
   TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS.

4. INVERT ELEVATION TO BE AS SHOWN IN WC 22 (AVG OCTOBER GROUND WATER LEVEL)

NOTE: THIS DETAIL IS TO BE USED FOR PRETREATMENT OF STORMWATER RUN OFF. THE INVERT OF PIPE
TO BE AS SHOWN IN WC 22; IF PRETREATMENT HAS
BEEN PROVIDED THEREFORE THE INVERT OF PIPE CANNOT BE LOWER THAN SHOWN IN WC 22.

TRANVERSE SECTION
SIDE ELEVATION

NOTE #
THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.

1. PLASTIC FILTER FABRIC EACH SIDE OVERLAPPED ON TOP SHALL BE USED IN SANDY AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. CATCH BASIN TO BE 36" HELICAL CMP. 12 GAGE GALVANIZED STEEL BITUMINOUS COATED BOTH SIDES 3'-1", OR 2'-0" "I" CORRUGATION, OR 16 HELICAL ALUMINUM CMP. WITH 1'-0" OSF AND 2'-0" "I" CORRUGATION.
3. CATCH BASIN TO BE ON NATURAL ROCK OR 2'-0" BALLAST ROCK.
4. IS PERFORATED CORRUGATED METAL PIPE STUB 16 GAGE GALVANIZED STEEL BITUMINOUS COATED BOTH SIDE OR 15 CMP STUB 1'-0" ALUMINUM PIPE.
5. PLATE TO BE GALVANIZED STEEL BITUMINOUS COATED BOTH SIDE OR 1'-0" ALUMINUM PLATE.
6. BRICK MASONRY CONSTRUCTION TO BE PLASTERED WITH 1" MORTAR INSIDE AND OUTSIDE.
7. INVERT ELEVATION TO BE AS SHOWN IN WC 2 21 AVG OCTOBER GROUND WATER LEVEL LOWER WHEN SLAB COVERED WHICH IS ALLOWED.
# B DIAGNOL BARS

W W M 6'' x 6'' 10/10

# 8 E W EQUAL SPACING

2 # 5 CONT HOOP

6'' 6''

# 8 DIAG BAR TYP

---

**NOTES**

1. CONCRETE fc = 3,400 P.S.I.
2. STEEL: ASTM A-615 GRADE 40
3. MIN. COVER 1 1/2''
4. LAP FOR #5 HOOP SHALL BE 12'' MINIMUM.
5. CONCRETE SLAB TO BEAR ON COMPACTED SOIL.

---

**SD 1.3**

**PRECAST CONCRETE SLAB**

**FOR METAL CATCH BASIN**

---

**METROPOLITAN**

**DADE COUNTY**

**PUBLIC WORKS DEPARTMENT**

**APPROVED**

1/30/81

**REVISED**

7/9/83

**STANDARD STORM DRAINAGE DETAIL**
Notes:
1. Concrete fc: 3,400 psi
2. Steel: ASTM A-615 Grade 60
3. Min. cover 1 1/4"
4. Lap for #6 hoop shall be 18" minimum
5. Concrete slab to be on compacted soil

Plan

Section A-A

Concrete Block Wall Catch Basin Structure (Use on Private Property Only)
NOTES:
1. CONCRETE BLOCK SHOULD MEET STANDARD SPECIFICATION ASTM C-139 (FOR SEGMENTAL UNITS) FOR CONSTRUCTION OF CATCH BASINS AND MANHOLES.
2. WHEN CONCRETE BRICKS ARE USED, THEY SHOULD BE PLASTERED OUTSIDE AND INSIDE WITH TYPE 'S' MORTAR. (REFER TO ASTM C-139.)
3. CONSTRUCT ALL MASONRY WALLS IN HORIZONTAL COURSES, WITH STAGGERED VERTICAL JOINTS. FILL ALL JOINTS COMPLETELY WITH TYPE 'M' MORTAR.
4. BACKFILL MATERIAL & PLACEMENT TO FOLLOW SD 1.3.

SECTION

BOTTOM SLAB DETAILS

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CLASS</th>
<th>SPEC.</th>
</tr>
</thead>
</table>

CONCRETE BOTTOM SLAB (FOR CONCRETE BLOCK WALL CATCH BASIN STRUCTURE)
NOTE

1. Minimum size catch basin per STD DETAIL SD 2.2 or larger.

ELEVATIONS AS SHOWN ON GRADING PLANE

MIN. 10" RISER & CLEANOUT COVER

PROVIDE TEE OR WELDED RISER

OUTLET PIPE 12" MIN (C.M.P. OR P.V.C.)

2' MIN. SUMP REQUIRED

"SET PIPE INVERT TO OCT WATER LEVEL SEE DETAIL WC 2.2 - SECTION D4, WATER CONTROL"

---

STANDARD STORM DRAINAGE DETAIL

CATCH BASIN WITH GREASE & OIL SEPARATOR

SD 29
In compliance with Section 2.3 Administration of the Metropolitan Dade County Code, please file the following items:


DELETIONS from the Dade County Public Works Manual, Part 1, Standard Details:

**Standard Water Supply Details:**
WS 1.1 through WS 6.2 (8 Details)

**Standard Sanitary Sewer Details:**
SS 1.1 through SS 10.1 (21 Details)

Above-noted adoption and deletions were approved as per Resolution No. R-135-67 by the Board of County Commissioners on February 3, 1967.
FOREWORD

The Code of Metropolitan Dade County authorized the Public Works Department to prepare the Public Works Manual.

The Public Works Manual, also referred to as the "MANUAL," sets forth minimum requirements governing public and private construction work which is under the jurisdiction and control of the Public Works Department. The following drawings constitute a portion of the Manual entitled "Standard Details." These details establish requirements for various types of construction which are to be construed as minimum and may be exceeded.

As these details are revised and new drawings added, the appropriate index sheets will also be revised and made available.

SEVENTH PRINTING

JUNE 1987

REVISED JANUARY, 1991
## TABLE OF CONTENTS

### STANDARD ROAD DETAILS

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Abbrev</th>
<th>Last Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-1.1</td>
<td>50' R/W — 2 Lanes, Swale</td>
<td>6/5/61</td>
<td>6-4-66</td>
</tr>
<tr>
<td>R-1.2</td>
<td>50' R/W — 2 Lanes, Curb and Gutter</td>
<td>6/5/61</td>
<td>8-5-63</td>
</tr>
<tr>
<td>R-1.2 (sheet 2)</td>
<td>50' R/W — 2 Lanes, Curb and Gutter</td>
<td>6/5/61</td>
<td>8-5/63</td>
</tr>
<tr>
<td>R-2.1</td>
<td>60' R/W — 2 Lanes, Swale</td>
<td>6/5/61</td>
<td>6-4-66</td>
</tr>
<tr>
<td>R-2.2</td>
<td>60' R/W — 2 Lanes, Curb and Gutter (Local Street)</td>
<td>6/5/61</td>
<td>8-5/63</td>
</tr>
<tr>
<td>R-2.3</td>
<td>60' R/W — 3 Lanes, Curb and Gutter (Collector St.)</td>
<td>5/17/72</td>
<td>6-4-68</td>
</tr>
<tr>
<td>R-2.4</td>
<td>60' R/W — 2 Lanes, Industrial</td>
<td>6/5/61</td>
<td>3-5-63</td>
</tr>
<tr>
<td>R-3.1</td>
<td>70' R/W — 2 Lanes, Swale</td>
<td>6/5/61</td>
<td>3-5-63</td>
</tr>
<tr>
<td>R-3.2</td>
<td>70' R/W — 4 Lanes, Curb and Gutter (with Striped Median)</td>
<td>6/5/61</td>
<td>3-10-81</td>
</tr>
<tr>
<td>R-3.3</td>
<td>70' R/W — 2 Lanes, Industrial (Without Parking)</td>
<td>8/28/74</td>
<td>9/10/81</td>
</tr>
<tr>
<td>R-3.4</td>
<td>70' R/W — 3 Lanes, Industrial</td>
<td>9/9/61</td>
<td>—</td>
</tr>
<tr>
<td>R-4.4</td>
<td>80' R/W — 4 Lanes Divided, Curb and Gutter</td>
<td>6/5/61</td>
<td>10-12-63</td>
</tr>
<tr>
<td>R-4.5</td>
<td>86' R/W — 4 Lanes Divided, Curb and Gutter</td>
<td>5/17/72</td>
<td>10-12-63</td>
</tr>
<tr>
<td>R-5.2</td>
<td>100' R/W — 6 Lanes, Divided, Curb and Gutter</td>
<td>6/5/61</td>
<td>10-12-63</td>
</tr>
<tr>
<td>R-6.2</td>
<td>110' R/W — 6 Lanes, Divided, Curb and Gutter</td>
<td>6/5/61</td>
<td>10-12-63</td>
</tr>
<tr>
<td>R-8.1 (sheet 2)</td>
<td>Requirements for 40', 43', 50' and 55½ Rights-of-Way</td>
<td>5/17/72</td>
<td>10-12-63</td>
</tr>
<tr>
<td>R-9.1</td>
<td>Access Road Adjacent to an Arterial Road</td>
<td>6/1/62</td>
<td>6-4-66</td>
</tr>
<tr>
<td>R-9.2</td>
<td>Access Road Adjacent to Canal or Other Water Areas</td>
<td>6/1/62</td>
<td>6-4-66</td>
</tr>
<tr>
<td>R-10.1 (2 sheets)</td>
<td>Sample Plateau Intersection</td>
<td>5/17/72</td>
<td>—</td>
</tr>
<tr>
<td>R-11.2 (sheet 1)</td>
<td>Cul-De-Sac, Curb and Gutter Residential</td>
<td>6/5/61</td>
<td>7-20-83</td>
</tr>
<tr>
<td>R-11.2 (sheet 2 &amp; 3)</td>
<td>Cul-De-Sac, Curb and Gutter: Commercial &amp; Industrial</td>
<td>5/17/72</td>
<td>7-27-83</td>
</tr>
<tr>
<td>R-11.3</td>
<td>T-Turnaround — 50' R/W Residential</td>
<td>6/5/61</td>
<td>8-5/83</td>
</tr>
<tr>
<td>R-11.4 (sheet 1)</td>
<td>T-Turnaround — 60' R/W Residential</td>
<td>6/5/61</td>
<td>8-5/83</td>
</tr>
<tr>
<td>R-11.4 (sheet 2)</td>
<td>T-Turnaround — 70' R/W Commercial &amp; Industrial</td>
<td>6/5/61</td>
<td>8-5/83</td>
</tr>
<tr>
<td>R-12.1</td>
<td>Residential Driveway Spacing</td>
<td>6/5/61</td>
<td>6-4-86</td>
</tr>
<tr>
<td>R-12.2</td>
<td>Commercial and Industrial Driveway Spacing</td>
<td>6/6/61</td>
<td>6-4-86</td>
</tr>
<tr>
<td>R-12.3</td>
<td>Asphalt Driveway Residential</td>
<td>6/5/61</td>
<td>6-4-86</td>
</tr>
<tr>
<td>R-12.5</td>
<td>Asphalt Driveway Commercial</td>
<td>6/5/61</td>
<td>6-4-86</td>
</tr>
<tr>
<td>R-12.6 (2 sheets)</td>
<td>Concrete Driveway</td>
<td>6/5/61</td>
<td>9-22-86</td>
</tr>
</tbody>
</table>
## STANDARD ROAD DETAILS (Cont'd.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Approved</th>
<th>Last Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-12.7</td>
<td>Driveway Detail for Large Shopping Center</td>
<td>8/9/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-14.1</td>
<td>Curb and Gutter Sections</td>
<td>6/5/61</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-14.2</td>
<td>Curb Sections</td>
<td>6/5/61</td>
<td>4/2/82</td>
</tr>
<tr>
<td>R-14.3</td>
<td>Valley Gutter</td>
<td>5/5/61</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-14.4</td>
<td>Curb Endings</td>
<td>6/5/61</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-14.5</td>
<td>Access Road Curb Separators</td>
<td>6/5/61</td>
<td>6/1/62</td>
</tr>
<tr>
<td>R-14.6</td>
<td>Concrete Valley Gutter (for 2 and 4 Lane Pavements)</td>
<td>7/30/62</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-15.1</td>
<td>Street Intersection Swale</td>
<td>6/5/61</td>
<td></td>
</tr>
<tr>
<td>R-15.2</td>
<td>Street Intersection Curb and Gutter</td>
<td>6/5/61</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-15.3</td>
<td>Residential Pavement Transition — Divided to Undivided</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-15.3</td>
<td>Arterial Pavement Transition — Divided to Undivided</td>
<td>5/17/72</td>
<td></td>
</tr>
<tr>
<td>R-15.4</td>
<td>Radius Return for Industrial Areas</td>
<td>5/17/72</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-15.5</td>
<td>Median Opening on Divided Roadways</td>
<td>8/21/72</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-16.1</td>
<td>FEC RR Crossing Major &amp; Minor Streets</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-16.2</td>
<td>SCL RR Crossing Major &amp; Minor Streets</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-17.1</td>
<td>Superelevation: General Notes</td>
<td>8/9/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-17.1</td>
<td>Superelevation: 2 Lanes, Swale Section</td>
<td>6/5/61</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-17.1</td>
<td>Superelevation: Multi-Lane Divided, Swale Section</td>
<td>6/5/61</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-17.1</td>
<td>Superelevation: Curb and Gutter Section</td>
<td>7/11/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-17.2</td>
<td>Superelevation: Transition for Reverse Curves</td>
<td>8/9/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-18.1</td>
<td>Street Sign Post Assembly</td>
<td>6/4/86</td>
<td></td>
</tr>
<tr>
<td>R-18.1</td>
<td>Street Sign Post Typical Installation</td>
<td>6/4/86</td>
<td></td>
</tr>
<tr>
<td>R-18.1</td>
<td>Street/Stop Sign (Assembly &amp; Fabrication)</td>
<td>6/4/86</td>
<td></td>
</tr>
<tr>
<td>R-18.1</td>
<td>Sign Message Details</td>
<td>6/4/86</td>
<td></td>
</tr>
<tr>
<td>R-18.2</td>
<td>Street/Stop Sign Location</td>
<td>6/4/86</td>
<td>7/7/88</td>
</tr>
<tr>
<td>R-19.1</td>
<td>Typical Traffic Control Signs</td>
<td>8/1/62</td>
<td>9/5/71</td>
</tr>
<tr>
<td>R-19.2</td>
<td>Typical Traffic Control (Utility Repair)</td>
<td>8/1/62</td>
<td>10/22/76</td>
</tr>
<tr>
<td>R-19.2</td>
<td>(Road Closed Beyond Detour Point)</td>
<td>8/8/62</td>
<td>6/10/76</td>
</tr>
</tbody>
</table>

*Note: Codes R-12 through R-19.2 are specific to different aspects of road design and construction, including details for driveways, sidewalks, curbs, and street signs.*
<table>
<thead>
<tr>
<th>R-19.4 (sheet 1-2)</th>
<th>Typical Traffic Control (2 Lane Divided Roadway, Minor and Major Construction)</th>
<th>Approved</th>
<th>Last Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-19.5 (sheet 1)</td>
<td>Typical Traffic Control (4 Lane Divided Roadway, 1 Roadway Closed)</td>
<td>8/8/62</td>
<td>10/20/90</td>
</tr>
<tr>
<td>R-19.5 (sheet 2)</td>
<td>Typical Traffic Control (4 Lane Undivided Roadway, 2 Lanes Closed)</td>
<td>8/8/62</td>
<td>7/7/86</td>
</tr>
<tr>
<td>R-19.5 (sheet 3)</td>
<td>Typical Traffic Control (4 Lane Divided Roadway, 1 Lane Closed)</td>
<td>8/8/62</td>
<td>7/7/86</td>
</tr>
<tr>
<td>R-19.5 (sheet 4)</td>
<td>Typical Traffic Control (4 Lane Undivided Roadway, 1 Lane Closed)</td>
<td>8/3/66</td>
<td>7/7/86</td>
</tr>
<tr>
<td>R-19.5 (sheet 5)</td>
<td>Typical Traffic Control (Multi-Lane Roadway, Multiple Lanes Closed)</td>
<td>6/10/74</td>
<td>7/7/86</td>
</tr>
<tr>
<td>R-19.6 (sheet 1)</td>
<td>Typical Traffic Control Barricades</td>
<td>8/3/66</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-19.6 (sheet 2)</td>
<td>Typical Traffic Control Barricades</td>
<td>6/10/74</td>
<td>6/4/86</td>
</tr>
<tr>
<td>R-19.7</td>
<td>Approach Sign for Private Culvert Crossing</td>
<td>8/3/66</td>
<td>—</td>
</tr>
<tr>
<td>R-20.1</td>
<td>Guardrail Post Details</td>
<td>6/5/61</td>
<td>6/29/76</td>
</tr>
<tr>
<td>R-20.2</td>
<td>Metal Guardrail (Standard Beam Type)</td>
<td>6/5/61</td>
<td>4/6/83</td>
</tr>
<tr>
<td>R-20.3 (2 sheets)</td>
<td>Metal Guardrail and Anchorages</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-20.4</td>
<td>Guardrail Installation at T-Intersection Adjacent to Canal or Ditch</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-20.5</td>
<td>Guardrail Installations for Roadway Hazards</td>
<td>6/5/61</td>
<td>3/17/72</td>
</tr>
<tr>
<td>R-20.6 (sheet 1)</td>
<td>Roadway Shoulder Requirements Along Canal and Pond Frontage</td>
<td>6/1/62</td>
<td>3/10/81</td>
</tr>
<tr>
<td>R-20.6 (sheet 2)</td>
<td>Roadway Shoulder Requirements Along Lake Frontage</td>
<td>5/17/72</td>
<td>—</td>
</tr>
<tr>
<td>R-20.7</td>
<td>Guardrail Requirements on Fill</td>
<td>6/1/62</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-22.1</td>
<td>Pavement Endings</td>
<td>6/5/61</td>
<td>6/23/77</td>
</tr>
<tr>
<td>R-24.1</td>
<td>Pavement Widening on 2 Lane Residential Street</td>
<td>7/30/62</td>
<td>—</td>
</tr>
</tbody>
</table>

**STANDARD BRIDGE AND CULVERT DETAILS**

| 1.2               | Culvert Crossing — Type B                                                     | 6/5/61   | 8/13/83       |
| 2.1               | Bridge Cross-Section and Loading Requirements for 50’ & 60’ Right-of-Way      | 6/5/61   | 10/12/83      |
BC-2.2 (sheets 1.2) Bridge Cross-Section and Loading Requirements for 70’ Right-of-Way 5/17/72 10/12/83
BC-2.3 Bridge Cross-Section and Loading Requirements for 80’ & 86’ Right-of-Way 5/17/72 10/12/83
BC-2.4 Bridge Cross-Section and Loading Requirements for 100’ & 110’ Right-of-Way 5/17/72 10/12/83
BC-2.5 Bridge Cross-Section and Loading Requirements for Private Crossings 6/5/69 10/12/83
BC-2.6 (sheet 1) Concrete Parapet Wall 6/24/72 —
BC-2.6 (sheet 2 & 3) Concrete Parapet Wall 6/24/72 —
BC-3.1 Straight Concrete Headwall 6/1/62 6/24/83
BC-3.2 Concrete Headwall with 45° Wings 6/1/62 6/24/83
BC-3.3 Concrete Headwall “U” Type 6/1/62 6/24/83
BC-3.4 Straight Sand-Cement Rip Rap Headwall 6/1/62 6/24/83
BC-3.5 Sand-Cement Rip Rap Headwall 6/1/62 6/24/83

GENERAL DETAILS

C-1.1 Datum Plane Relationships 6/5/61 6/20/83
C-1.2 Permanent Reference Monument 6/5/61 —
C-2.1 (sheets 1.2) Utility Placement within a Public Right-of-Way for Residential Streets 6/5/61 6/20/83
C-2.1 (sheets 3.4) Utility Placement within a Public Right-of-Way for Arterial Streets 5/17/72 6/20/83
C-2.2 Utility Placement within Real Lot Easement 6/5/61 6/4/83
C-2.3 Utility Placement at Road (or Proposed Road) Crossing of Canal 6/1/62 6/6/81
C-3.1 Standard Symbols (Road) 6/5/61 6/6/81
C-3.2 Standard Symbols (Utility) 6/5/61 6/6/81
C-3.3 Standard Symbols (Miscellaneous) 6/5/61 6/6/81
C-3.4 Standard Symbols (Surveyors, Natural Features, Architectural and Structural) 6/5/61 6/1/82
C-3.5 Standard Symbols (Abbreviations) 6/5/61 6/1/82
C-3.6 Underground Utilities (Color Code) 3/3/78 —
J-5.1 Location of Mailboxes within Public Right-of-Way 6/1/62 —
J-5.1 Location of Planting within Public Right-of-Way 6/11/64 5/2/83
## GENERAL DETAILS (Cont’d.)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Approved</th>
<th>Last Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-5.2</td>
<td>Fences within Canal Maintenance Easements</td>
<td>4/9/68</td>
<td>6/24</td>
</tr>
<tr>
<td>G-5.3 (sheet 1)</td>
<td>Sight Restrictions for Access to Collector Roads</td>
<td>5/17/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>G-5.3 (sheet 2)</td>
<td>Sight Restrictions for Access to Arterial Roads</td>
<td>5/17/72</td>
<td>6/4/86</td>
</tr>
<tr>
<td>G-6.1</td>
<td>Location of Residential Roadway Markers (within Public R/W)</td>
<td>5/17/72</td>
<td>7/24</td>
</tr>
<tr>
<td>G-7.1</td>
<td>Township, Range and Section Location in Dade County</td>
<td>3/10/81</td>
<td>-</td>
</tr>
<tr>
<td>G-7.2</td>
<td>Flood Criteria Map</td>
<td>3/10/81</td>
<td>-</td>
</tr>
<tr>
<td>G-7.3</td>
<td>Base Map of Dade County</td>
<td>3/10/81</td>
<td>-</td>
</tr>
</tbody>
</table>

## STANDARD STORM DRAINAGE DETAILS

| SD-1.1 (sheet 1) | Exfiltration Trench                                                       | 5/5/61    | 3/12/90        |
| SD-1.1 (sheet 2) | Exfiltration Trench (Pipe Culvert Notes)                                | 5/5/61    | 3/12/90        |
| SD-1.1 (sheet 3) | French Drain Detail (For Metal Catch Basin)                             | 5/21/81   | 3/12/90        |
| SD-1.2 (2 sheets) | Slab Covered Trench                                                      | 5/17/72   | 6/4/86         |
| SD-1.3 (sheet 1) | Catch Basin, Drainfield, & Stub Pipes                                    | 5/17/72   | 3/12/90        |
| SD-1.3 (sheet 2) | Corrugated Aluminum or Steel Catch Basin, Drainfield, & Stub Pipes      | 5/17/72   | 3/12/90        |
| SD-1.3 (sheet 3) | Precast Concrete Slab (For Metal Catch Basin)                           | 5/17/72   | 3/12/90        |
| SD-1.2 | Catch Basin                                                              | 1/30/81   | 7/7/86         |
| SD-2.1 | Catch Basin Frame and Grate                                              | 6/26/86   | 6/4/86         |
| SD-2.4 | Catch Basin Location in Commercial and Residential Driveways             | 6/26/86   | 3/7/81         |
| SD-2.4 | Catch Basin Pavement (Other Than Driveway Locations)                    | 6/26/86   | 6/4/86         |
| SD-2.5 (sheet 1) | Typical Inlet Pavement at Intersections                                  | 5/17/72   | 3/7/81         |
| SD-2.5 (sheet 2) | Manhole & Junction Box (Type J)                                          | 5/17/72   | 3/6/81         |
| SD-2.6 (sheet 1, 2) | Manhole & Junction Box (Type P)                                         | 5/17/72   | 6/4/86         |
| SD-2.6 (sheet 3) | Manhole & Junction Box (Type P & J)                                      | 5/17/72   | 6/4/86         |
| SD-2.8 (2 sheets) | Swale Inlet (Type 101)                                                   | 5/17/72   | 6/4/86         |
| SD-2.8 | Driveway Curb Inlet (Type P-11)                                          | 5/17/72   | 6/4/86         |
| SD-3.1 (2 sheets) | Swale Inlet & Modified Curb Inlet                                        | 6/26/86   | 6/4/86         |
| SD-3.2 (2 sheets) | Curb Inlet (For 50' & 60' R/W)                                          | 6/1/72    | 5/17/72        |
| SD-3.3 | Curb Inlet Frame and Cover                                               | 6/26/86   | -              |
| SD-3.4 (sheet 1) | Curb Inlet Throat (Types 5 & 6)                                          | 5/17/72   | -              |
| SD-3.4 (sheet 2) | Frame and Grate (Driveway Type 'Q' Grains)                              | 5/17/72   | -              |
| SD-3.5 | Inlet Spacing for Positive Drainage Systems                              | 5/17/72   | 6/4/86         |
| SD-3.6 | Junction Box, Manhole Top & Precast Concrete Riser Details               | 5/17/72   | 6/4/86         |
| SD-3.6 | Storm Sewer: Manhole Frame and Cover                                     | 5/17/72   | 6/4/86         |
| SD-3.6 | Leveling Course                                                          | 6/26/86   | 7/21/77        |
| SD-3.6 | Manhole Step                                                             | 6/1/62    | 6/4/86         |
ROAD
DETAILS
NOTE
AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

<table>
<thead>
<tr>
<th>CURB &amp; GUTTER</th>
<th>R-441</th>
<th>R-451</th>
<th>R-461</th>
<th>CROSS REF</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE: SIDEWALK</td>
<td>ASPHALTIC CONCRETE</td>
<td>ASPHALTIC CONCRETE</td>
<td>BASE COURSE</td>
<td>ITEM</td>
<td>1.2</td>
</tr>
<tr>
<td>STANDARD ROAD DETAIL</td>
<td>50' R/W - 2 LANES</td>
<td>CURB AND GUTTER</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NOTE:
AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

A. RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
B. SPECIAL CONCRETE CURB-SIDEWALK COMBINATION
C. LEVEL LINE
D. ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
E. BASE COURSE, PRIMED ENTIRE WIDTH
F. OFFSET FROM LEVEL LINE
G. STABILIZED SUBGRADE
CONCRETE SIDEWALK (4" THICK, 6" AT DRIVEWAY)

SWALE

ASPHALTIC CONCRETE SURFACE COURSE 1" THICK

BASE COURSE 8" THICK

STABILIZED SUBGRADE 12" THICK (MIN. CBR OF 30)

STANDARD PRIVATE ROAD DETAIL (42')

PRIVATE ROAD
42'-2 LANES
STANDARD PRIVATE ROAD DETAIL (40')

- SWALE
- ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
- BASE COURSE 8" THICK
- STABILIZED SUBGRADE 12" THICK (MIN. CBR OF 30)

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

PRIVATE ROAD
40' - 2 LANES
NOTES
1. THIS DETAIL APPLIES TO COLLECTOR STREETS WHERE INDICATED BY TRAFFIC PROJECTIONS
2. AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED

A. CONCRETE SIDEWALK WHERE REQUIRED
B. 6" CURB AND GUTTER
C. LEVEL LINE
D. ASPHALTIC CONCRETE SURFACE COURSE 2" THICK
E. RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
F. BASE COURSE, PRIMED ENTIRE WIDTH
G. STABILIZED SUBGRADE

| CURB & GUTTER | 14 | R-141 | REF. 145 |
| CONCRETE SIDEWALK | 15 | R-151 | REF. 135 |
| ASPHALTIC CONCRETE | | SEC.133 |
| BASE COURSE | | SEC.133 |
| PAVEMENT ENHANCED | | SEC.54.54 |
| 60' R/W 2-LANE | | SEC.2.2 |

CROSS REF | SPEC REF
--- | ---
CONCRETE SIDEWALK WHERE REQUIRED
LEVEL LINE
ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
STABILIZED SUBGRADE
BASE COURSE, PRIMED ENTIRE WIDTH
OFFSET FROM LEVEL LINE
SWALE (SOLID SOD), SEE R-14.6 FOR SPECIAL DRAINAGE CONDITIONS

* PRIVATE DRIVEWAY APPROACHES TO ALWAYS BE A STRAIGHT SLOPE.
NOTES:
1. THIS DETAIL APPLIES TO ARTERIAL STREETS, TOWN HOUSE & MULTI-FAMILY RESIDENTIAL AREAS, AND COMMERCIAL & INDUSTRIAL AREAS. IT ALSO APPLIES TO COLLECTOR STREETS USED FOR ACCESS TO THESE LAND USES WHERE INDICATED BY TRAFFIC PROJECTIONS.
2. AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

A
LEVEL LINE
B
ASPHALTIC CONCRETE SURFACE COURSE 2" THICK (MINIMUM) TO BE PLACED IN TWO (2) LIFTS.
C
RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
D
CONCRETE SIDEWALK WHERE REQUIRED
E
6" CURB AND GUTTER
F
BASE COURSE, PRIMED ENTIRE WIDTH
G
STABILIZED SUBGRADE
H
OFFSET FROM LEVEL LINE

<table>
<thead>
<tr>
<th>STABILIZING</th>
<th>SEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURB &amp; GUTTER</td>
<td>R-14.1</td>
</tr>
<tr>
<td>CONC. SIDEWALK</td>
<td>R-13.1  SEC.145</td>
</tr>
<tr>
<td>ASPHALTIC CONCRETE</td>
<td>SEC.122</td>
</tr>
<tr>
<td>BASE COURSE</td>
<td>SEC.9-54</td>
</tr>
<tr>
<td>ITEM</td>
<td>CROSS RFF</td>
</tr>
</tbody>
</table>

NOTE
AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

A LEVEL LINE
B ASPHALTIC CONCRETE 1" THICK
C RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
D BASE COURSE PRIMED, 8" THICK
E " " " , 6" THICK
F STABILIZED SUBGRADE
G OFFSET FROM LEVEL LINE
H 6" CONCRETE CURB BETWEEN APPROVED DRIVEWAY LOCATIONS WHERE REQUIRED BY SITE PLAN APPROVAL
NOTE: THIS 2 LANE DIVIDED ROADWAY MAY BE USED AS AN ALTERNATE IN INDUSTRIAL AREAS IN PLACE OF R-24, OR R-33.

A LEVEL LINE
B 6" CURB & GUTTER
C ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
D BASE COURSE 6" PRIMED ENTIRE WIDTH
E RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
F STABILIZED SUBGRADE
G OFFSET FROM LEVEL LINE
H SWALE (SOLID SOD)
NOTES:
1. THIS DETAIL APPLIES TO ARTERIAL STREETS AND TO TOWN HOUSE & MULTI-FAMILY RESIDENTIAL AREAS, AND COMMERCIAL & INDUSTRIAL AREAS. IT ALSO APPLIES TO COLLECTOR STREETS USED FOR ACCESS TO THESE LAND USES WHERE INDICATED BY TRAFFIC PROJECTIONS.

2. AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

A. 6" CURB AND GUTTER
B. ASPHALTIC CONCRETE SURFACE COURSE 2" THICK
C. LEVEL LINE
D. TYPE E' MEDIAN CURB
E. RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
F. CONCRETE SIDEWALK WHERE REQUIRED
G. BASE COURSE, PRIMED ENTIRE WIDTH
H. STABILIZED SUBGRADE
J. OFFSET FROM LEVEL LINE
L. MEDIAN (SOLID SOO)
NOTES:
1. THIS DETAIL APPLIES TO ARTERIAL STREETS AND TO TOWN HOUSE & MULTI-FAMILY RESIDENTIAL AREAS, AND COMMERCIAL & INDUSTRIAL AREAS. IT ALSO APPLIES TO COLLECTOR STREETS USED FOR ACCESS TO THESE LAND USES WHERE INDICATED BY TRAFFIC PROJECTIONS.
2. AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

6" CURB AND GUTTER
LEVEL LINE

ASPHALTIC CONCRETE SURFACE COURSE 2" THICK (MINIMUM) TO BE PLACED IN TWO (2) LIFTS.

BASE COURSE, PRIMED ENTIRE WIDTH
TYPE 'E' MEDIAN CURB
RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
CONCRETE SIDEWALK WHERE REQUIRED
STABILIZED SUBGRADE
OFFSET FROM LEVEL LINE
MEDIAN (SOLID SOD)
NOTES:
1. USE ONLY IF THE OTHER HALF OF THE ZONED RIGHT-OF-WAY IS NOT DEDICATED AT TIME OF CONSTRUCTION.
2. THIS DETAIL APPLIES ONLY TO LOCAL STREETS IN RESIDENTIAL AREAS OF DENSITY LESS THAN 10 UNITS PER ACRE FOR HIGHER DENSITY RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL USE, CURB AND GUTTER DETAILS SHALL APPLY.

A) LEVEL LINE
B) ASPHALTIC CONCRETE SURFACE COURSE 1" THICK (MIN)
C) BASE COURSE, PRIMED ENTIRE WIDTH
D) RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
E) CONCRETE SIDEWALK WHERE REQUIRED
F) SWALE (SOLID SOD), SEE R-14 & FOR SPECIAL DRAINAGE CONDITIONS
G) STABILIZED SUBGRADE
H) OFFSET FROM LEVEL LINE
I) Q OF PROPOSED FULL DEDICATION OR FRACTIONAL LINE
J) PRIVATE DRIVEWAY APPROACHES TO ALWAYS BE A STRAIGHT SLOPE

CONCRETE SIDEWALK R 0: SEC 45
ASPHALTIC CONCRETE SEC 33
BASE COURSE SEC 34
STABILIZING SEC 53

ITEM CROSS REF SPEC REF

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

APPROVED 6/5/86 8/5/83

STANDARD ROAD DETAIL REQUIREMENTS FOR 25', 30' & 35' 1/2 RIGHTS OF WAY

R 8.1 SHEET 1 OF 2
NOTE
I USE ONLY IF THE OTHER HALF OF THE ZONED RIGHT-OF-WAY IS NOT DEDICATED AT TIME OF CONSTRUCTION.

REQUIREMENTS FOR 40', 43', 50', & 55' 1/2 RIGHTS OF WAY
A CONCRETE SIDEWALK WHERE REQUIRED
B LEVEL LINE
C ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
D RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
E SWALE (SOLID SOD)
F BASE COURSE, PRIMED ENTIRE WIDTH
G CONTINUOUS BARRIER REQUIRED - WALL, FENCE, ETC
SUBJECT TO PUBLIC WORKS DEPARTMENT APPROVAL
H OFFSET FROM LEVEL LINE
I STABILIZED SUBGRADE

NOTE: PRIVATE DRIVEWAY APPROACHES TO ALWAYS BE A STRAIGHT SLOPE
PLAN

NOTES
1. CUL-DE-SAC STREET NOT TO EXCEED 600' IN LENGTH
2. MAINTAIN MIN 2% SLOPE IN SWALE FOR PROPER DRAINAGE
3. FOR SECTION ‘B-B’ SEE SHEET 3 OF 3

SECTION A-A

LOCATION ON PLAN REFERS TO THIS POINT(S).

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

STANDARD ROAD DETAIL
CUL-DE-SAC RESIDENTIAL (SWALE)

REVISED
6/3/81
3/10/81
7/2/83

R
11.1

CURVE DATA
Δ = 48° 11' 23"
R = 25 00
L = 21 03'
T = 11 18'

Δ = 48° 11' 23"
R = 44 00
L = 37 01'
T = 19 58'

CONCRETE SIDEWALK (WHERE REQUIRED)

ASPHALTIC CONCRETE SURFACE COURSE 1" THICK

BASE COURSE 3"

SWALE (SOLID SOD) STABILIZED SUBGRADE
PLAN

5'-0" 18'-0" 24'-0"" 18'-0"

R/W LINE

70'-0"

5'-SWK

B

18'-0"

Pavement Edge

PRC

PC

CURVE 'A'

CURVE 'B'

5'-SWK

A

B

8.09' -

63'-0"

50'-0"

55'-22.35.3" R = 38.00' L = 36.87' T = 20.01'

△ = 47'-00.5"

R = 25.00' L = 20.53' T = 10.87'

CURVE DATA

NOTES

1. CUL-DE-SAC STREETS NOT TO EXCEED 600' IN LENGTH

2. MAINTAIN MIN 2% SLOPE IN SWALE FOR PROPER DRAINAGE

3. FOR SECTION 'B'- 'B' SEE SHEET 2 OF 2

SECTION A-A

ON PLAN REFERS TO THIS POINT (S)

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"

CONCRETE SIDEWALK
( WHERE REQUIRED )

STABILIZED SUBGRADE
SWALE ( SOLID SOD )

ASPHALTIC CONCRETE
SURFACE COURSE 1" THICK

BASE COURSE

1/8" -

1/8"

1/8"

1/8"
SECTION B-B
(SEE SHEET 1 OF 3)

SECTION B-B
(SEE SHEET 2 OF 3)

* LOCATION ON PLAN REFERS TO THIS POINT(S).
**NOTES**

1. CUL-DE-SAC STREETS NOT TO EXCEED 600 IN LENGTH
2. MAINTAIN MIN. 3% SLOPE ALONG GUTTER FOR PROPER DRAINAGE

**SECTION A-A**

* LOCATION ON PLAN REFERS TO THIS POINT(S).
NOTES
1 CUL-DE-SAC STREETS NOT TO EXCEED 600 IN LENGTH
2 MAINTAIN MIN. 3% SLOPE ALONG CURB AND GUTTER FOR PROPER DRAINAGE
16 GRASS AREA (MIN.)
70° MIN
16° GRASS AREA (MIN.)

VERTICAL AND HORIZONTAL TRANSITION TO STANDARD ROAD SECTION

SECTION A-A

LOCATION ON PLAN REFERS TO THIS POINT(S).

STANDARD ROAD DETAIL
CUL-DE-SAC COMMERCIAL AND INDUSTRIAL (CURB AND GUTTER)

R 11.2
SECTION B-B

(SEE SHEET 1 OF 3)

SECTION B-B

(SEE SHEET 2 OF 3)

* LOCATION ON PLAN REFERS TO THIS POINT(S)
WHERE R/W DEDICATION IS NOT
CONTINUOUS, PROVIDE SUFFICIENT
SET-BACK TO ACCOMMODATE FILL OR
CUT SLOPE, AND GUARDRAIL.

LEVEL LINE
BASE COURSE, PRIMED ENTIRE WIDTH
ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
OFFSET FROM LEVEL LINE
RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
CONCRETE SIDEWALK WHERE REQUIRED
(6" THICK)
STABILIZED SUBGRADE

GUARDRAIL
CONCRETE SIDEWALK
ASPHALTIC CONCRETE
BASE COURSE

ITEM
CROSS REF
SPEC REF

R/202
R-3 SEC '85
SEC 133
SEC 5

T - TURNDOWN
50' R/W
(RESIDENTIAL)

STANDARD ROAD DETAIL

11.3

METROPOLITAN
DADE COUNTY
PUBLIC WORKS
DEPARTMENT

APPROVED 6/5/86
REvised 8/5/83

SHEET 1 of 1
PLAN

NOTE
WHERE R/W DEDICATION IS NOT CONTINUOUS, PROVIDE SUFFICIENT SET-BACK TO ACCOMMODATE FILL OR CUT SLOPE, AND GUARDRAIL

SECTION A-A

A LEVEL LINE
B BASE COURSE, PRIMED ENTIRE WIDTH
C ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
D OFFSET FROM LEVEL LINE
E RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
F CONCRETE SIDEWALK WHERE REQUIRED 16" THICK
G STABILIZED SUBGRADE

STANDARD ROAD DETAIL
T-TURNAROUND
60' R/W
(RESIDENTIAL)

11.4

METROPOLITAN
DADE COUNTY
PUBLIC WORKS
DEPARTMENT

REVISION
6/5/83
NOTE
WHERE R/W DEDICATION IS NOT CONTINUOUS, PROVIDE SUFFICIENT SET-BACK TO ACCOMMODATE FILL OR CUT SLOPE, AND GUARDRAIL.

SECTION A-A

A LEVEL LINE
B BASE COURSE, PRIMED ENTIRE WIDTH
C ASPHALTIC CONCRETE SURFACE COURSE 1" THICK
D OFFSET FROM LEVEL LINE
E RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
F CONCRETE SIDEWALK WHERE REQUIRED (6" THICK)
G STABILIZED SUBGRADE

NOTE
THIS DETAIL APPLIES IN AREAS WHERE THERE IS LIGHT COMMERCIAL INDUSTRY ONLY.

STANDARD ROAD DETAIL
T - TURNAROUND
70' R/W
(COMMERCIAL & INDUSTRIAL)
NOTES:

1. The limits within which driveways may not be constructed are determined by measuring from the PI of R/W lines a distance of 15' along the R/W line curve tangents.

2. All driveways must be constructed so that no part of the driveway (excluding the transition between the edge of roadway pavement and the R/W line) is closer than 5' from a side lot line extended.
PLAN

BACK OF SIDEWALK PROFILE

FRONT OF SIDEWALK PROFILE

TOP OF CURB PROFILE

PROFILE

**10" MIN MAY BE USED FOR RESIDENTIAL AREAS ZONED RU-TH OR LESS DENSITY.**

SECTION A-A

* FOR WIDTHS BETWEEN 40 & 60 SEE R-42.2

NOTE SPACE JOINTS IN ACCORDANCE WITH STD DETAIL R-131

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CROSS REF</th>
<th>SPEC. REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRIVeway CURB</td>
<td>R-161</td>
<td></td>
</tr>
<tr>
<td>CURB &amp; GUTTER</td>
<td>R-161</td>
<td></td>
</tr>
<tr>
<td>CONC SIDEWALK</td>
<td>R-131</td>
<td>SEC 16A</td>
</tr>
</tbody>
</table>

Table 1

<table>
<thead>
<tr>
<th>DRIVEWAY WIDTH</th>
<th>ADDTL 6&quot; CONC SWK (APPROACH SIDE ONLY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 TO 10</td>
<td>**ADDED WIDTH = **15</td>
</tr>
<tr>
<td>20</td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>25</td>
<td><strong>5</strong></td>
</tr>
<tr>
<td>30 TO 40</td>
<td><strong>ADDED WIDTH</strong></td>
</tr>
</tbody>
</table>

CONCRETE DRIVEWAY

STD  ROAD DETAIL

METRO COUNTY

PROGRAM WORKS

DEPARTMENT

APPROVED

REVISED

12.6

SHEET 1 OF 2
**FOR WIDTHS BETWEEN 40 & 60 SEE R-12.2 SPACE JOINTS IN ACCORDANCE WITH STD. DETAIL R-13.1**

**PROFILE**

**10 MIN MAY BE USED FOR RESIDENTIAL AREAS ZONED RU-TH OR LESS DENSITY**

**NOTE**

DECORATIVE SURFACE (BRICK, PAVERS, ETC.) WILL BE PERMITTED WHEN INSTALLED ON CONCRETE SLAB (3,000 PSI MIN.), 6" THICK IMEED IN CONCRETE OR ATTACH FIRMLY TO SLAB BY GROUTING, EPOXY OR OTHER MEANS TEXTURED OR IMPRINTED CONCRETE SURFACES WILL ALSO BE PERMITTED.

| TABLE 1 |
|------------------|------------------|------------------|------------------|
| **DRIVEWAY WIDTH** | **ADDTL 6 CONC SWK** | **ADD. WIDTH** |
| **UP TO 15** | **ADDED WIDTH** | **IN** |
| 10 | 5 | 10 |
| 20 | 5 | 10 |
| 30 and over | 5 | 10 |

| SECTION A-A |
|------------------|------------------|------------------|------------------|
| **DRIVEWAY CURB** | **R-161** | **CURB & GUTTER** | **R-161** |
| **CONC SIDEWALK** | **R-131** | **ITEM** | **CROSS REF** | **SPEC REF** |

<table>
<thead>
<tr>
<th>STANDARD ROAD DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONCRETE DRIVEWAY</strong></td>
</tr>
<tr>
<td><strong>R 12.6</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>METROPOLITAN ADEN COUNTY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PUBLIC WORKS DEPARTMENT</strong></td>
</tr>
<tr>
<td><strong>APPROVED 6/5/6</strong></td>
</tr>
</tbody>
</table>

SHEET 2 OF 2
SECTION A-A

- BASE COURSE 6" THICK
- ASPHALTIC CONCRETE SURFACE COURSE 1" THICK

SECTION B-B

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CROSS REF</th>
<th>SPEC REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. BASIN LOCATION</td>
<td>SD 2 A</td>
<td></td>
</tr>
<tr>
<td>WATER CONTROL</td>
<td>SEC D-6</td>
<td></td>
</tr>
<tr>
<td>DRIVEWAY SPACING</td>
<td>R-12 2</td>
<td></td>
</tr>
<tr>
<td>CONCRETE SIDEWALK</td>
<td>R-13</td>
<td>SEC 145</td>
</tr>
<tr>
<td>ASPHALTIC CONCRETE</td>
<td>SEC 133</td>
<td></td>
</tr>
<tr>
<td>BASE COURSE</td>
<td>SET: 5-54</td>
<td></td>
</tr>
</tbody>
</table>

TROPOLITAN ADE COUNTY PUBLIC WORKS DEPARTMENT

APPROVED:  6/5/61

REVISED:  6/4/86

STANDARD ROAD DETAIL

ASPHALT DRIVeways RESIDENTIAL

R 12.3
NOTE FOR WIDTHS BETWEEN 40 - 60 SEE R-122

USE VALLEY GUTTER FOR SPECIAL CONDITION - SEE R-14.6

PLAN

SECTION A-A

SECTION B-B

A BASE COURSE 6" THICK
B ASPHALTIC CONCRETE SURFACE COURSE 1" THICK

DRIVEWAY SPACING

<table>
<thead>
<tr>
<th>DRIVEWAY SPACING</th>
<th>R-122</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCRETE SIDEWALK</td>
<td>R-131</td>
</tr>
<tr>
<td>ASPHALTIC CONCRETE</td>
<td>SEC 133</td>
</tr>
<tr>
<td>BASE COURSE</td>
<td>SEC 9154</td>
</tr>
</tbody>
</table>

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

STANDARD ROAD DETAIL

ASPHALT DRIVEWAY COMMERCIAL

R 12.5

SHEET 1 OF 1
** 10' MIN. MAY BE USED FOR RESIDENTIAL AREAS ZONED RU-TH OR LESS DENSITY.

** FOR WIDTHS BETWEEN 40' & 60' SEE R-12.2

NOTE: SPACE JOINTS IN ACCORDANCE WITH STD. DETAIL R-13.1

---

PLAN

BACK OF SIDEWALK PROFILE

FRONT OF SIDEWALK PROFILE

DRIVEWAY CURB

CURB TRANSITION (OPTIONAL)

CURB TRANSITION

CURB TRANSITION

CURB TRANSITION

CURB TRANSITION

TOP OF CURB PROFILE

PROFILE

VARIES (MORE THAN 5'-0")

(SEE SHEET 2)

TYPE 'C' JOINT

SECTION A-A

---

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CROSS REF</th>
<th>SPEC. REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRIVEWAY CURB</td>
<td>R-14.1</td>
<td>R-14.1</td>
</tr>
<tr>
<td>CURB &amp; GUTTER</td>
<td>R-14.1</td>
<td>R-14.1</td>
</tr>
<tr>
<td>CONC. SIDEWALK</td>
<td>R-13.1</td>
<td>SEC.146</td>
</tr>
</tbody>
</table>

STANDARD ROAD DETAIL

CONCRETE DRIVEWAY

R 12.6

---

METROPOLITAN DADE COUNTY

PUBLIC WORKS DEPARTMENT

APPROVED

REVISED

1974

1986

1999

SHEET 1 OF 3
SIDEWALK SHALL BE TRANSITIONED IN A STRAIGHT LINE FROM END OF BRIDGE TO INTERSECTION OF CANAL AND ROADWAY R/W LINES.

TYPE 'A' JOINT

END OF EXISTING BRIDGE OR CULVERT CROSSING

NOTE: FOR NEW CROSSING CONSTRUCTION, SEE APPROPRIATE BRIDGE & CULVERT SECTION STANDARD DETAIL.

STANDARD ROAD DETAIL

STANDARD SIDEWALK TRANSITION

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

APPROVED 5/17/72

REvised 6/5/6

R 13.2

1 OF 1 SHEET
2 MAJOR ROADWAYS (CURB & GUTTER)
REF: Sec. 2a(1)(a)*

LOCAL ROADWAY OR ENTRANCE TO MAJOR SHOPPING CENTER (CURB & GUTTER)
REF: Sec. 2a(1)(b)*

ROADWAY INTERSECTIONS

2 MAJOR ROADS, LOCAL & MAJOR ROADWAY, B 2 LOCAL ROADWAYS (SWALE)**
REF: Sec. 2b(1)*

NOTES
1. Max. slope of ramps = 12:1 (for sidewalk widths greater than or equal to 6'-0")
2. Ramps may be 4" thick in residential areas.
3. Colors: All pedestrian ramps shall contrast visually with adjoining sidewalk surfaces. (i.e., locations within Dade Co. and outside of Coral Gables shall be integral colored "Coral Gables Beige"). Pedestrian ramps within Coral Gables, Miami Beach, and Key Biscayne shall have no color additive. All other construction (i.e., sidewalk, connections, etc.) Shall match the adjoining sidewalk color.

Alternate asph. conc. sidewalk ramp (same thickness), may be used as approved by Director of Public Works Department.

For all references, see Dade County Public Works Department "Policy on pedestrian ramps in Public Rights-Of-Way".

<table>
<thead>
<tr>
<th>CURB &amp; GUTTER</th>
<th>R 15.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPH. CONC. S.COURSE</td>
<td>SEC.133</td>
</tr>
<tr>
<td>CONC. DRIVEWAY</td>
<td>R 12.6</td>
</tr>
<tr>
<td>CONC. SIDEWALK</td>
<td>R-3.1</td>
</tr>
</tbody>
</table>

ITEM CROSS REF. SPEC. REF.
9" CURB AND GUTTER

6" CURB AND GUTTER
(TYPE F)

SLOPE TO MATCH
DRIVEWAY SLOPE

DRIVEWAY CURB

STANDARD ROAD DETAIL
CURB AND GUTTER
SECTIONS

R 14.1
DETAIL OF STANDARD CURB ENDING FOR 6" AND 9" CURB

DETAIL OF STANDARD CURB ENDING FOR TYPE 'A' AND 'B' MEDIAN CURB

DETAIL OF SPECIAL CURB ENDING FOR TYPE 'A' MEDIAN CURB

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Curb &amp; Gutter</th>
<th>1-4</th>
<th>Median Curb</th>
<th>8-142</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross Ref</td>
<td>Spec Ref</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**STANDARD ROAD DETAIL**

**CURB ENDINGS**
NOTES
1. PLACE CURB SECTION ON FOOTING OVER DOWELS. FILL HOLES WITH GROUT.
2. CURB SHALL BE STRUCTURAL CONCRETE.
3. FOOTING MAY BE NONSTRESS CONCRETE.

SECTION A-A

6'-0"
1'-0"

1'-0"
4'-0"

1" CHAMFER

2-NO 4 DOWELS PER CURB SECTION
POURED-IN-PLACE FOOTING

PLAN

ARTERIAL HIGHWAY R/W LINE
CURB SEPARATOR
2'-6" TYPICAL
ACCESS ROAD R/W LINE

LOCATION PLAN
2' VALLEY GUTTER

TYPICAL SECTION

NOTES
1. SUBJECT TO AN APPROVED DRAINAGE DESIGN, THIS DETAIL APPLIES TO FILL CONDITIONS OF MARL OR OTHER POORLY DRAINED SOIL AREAS
2. SLOPE OF VALLEY GUTTER TO BE NO LESS THAN 0.30 %
3' VALLEY GUTTER

TYPICAL SECTION

1. Subject to an approved drainage design, this detail applies to full conditions of marl or other poorly drained soil areas.
2. Slope of valley gutter to be no less than 0.30%.
NOTES:
1. THIS DETAIL APPLIES TO ARTERIAL STREETS AND TO TOWN HOUSE & MULTI-FAMILY RESIDENTIAL AREAS, AND COMMERCIAL & INDUSTRIAL AREAS. IT ALSO APPLIES TO COLLECTOR STREETS USED FOR ACCESS TO THESE LAND USES WHERE INDICATED BY TRAFFIC PROJECTIONS.
2. AN APPROVED DRAINAGE SYSTEM IS REQUIRED WHERE THIS DETAIL IS USED.

6" CURB AND GUTTER
LEVEL LINE
ASPHALT CONCRETE SURFACE COURSE 2" THICK (MINIMUM) TO BE PLACED IN TWO (2) LIFTS.
BASE COURSE, PRIMED ENTIRE WIDTH
TYPE 'E' MEDIAN CURB
RIGHT-OF-WAY LINE AT OR ABOVE FLOOD CRITERIA
CONCRETE SIDEWALK WHERE REQUIRED
STABILIZED SUBGRADE
OFFSET FROM LEVEL LINE
MEDIAN (SOLID SOD)
SWALE BOTTOM RADIUS = \left( \frac{a+b}{2} \right) + (R/W LINE RADIUS + SIDEWALK WIDTH)
STREET 'A'

WHERE SIDEWALK AND CURB AND GUTTER ARE REQUIRED ON STREET 'A' BUT NOT ON STREET 'B', CONSTRUCT SIDEWALK TO P.T. OF R/W LINE CURVE AND END CURB AND GUTTER AS SHOWN.
NOTES
1 DIVIDED PAVEMENT MUST BE 200' MIN
2 EQUIVALENT STRAIGHT TAPERS CAN BE USED
3 MEDIAN CAN BE ENDED AT PC OR PR C

TABLE 1

<table>
<thead>
<tr>
<th>OFFSET WIDTH (FEET)</th>
<th>MAXIMUM TRANSITION LENGTH (FEET)</th>
<th>OFFSET WIDTH (FEET)</th>
<th>MAXIMUM TRANSITION LENGTH (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>110</td>
<td>11</td>
<td>380</td>
</tr>
<tr>
<td>2</td>
<td>160</td>
<td>12</td>
<td>460</td>
</tr>
<tr>
<td>3</td>
<td>200</td>
<td>13</td>
<td>410</td>
</tr>
<tr>
<td>4</td>
<td>222</td>
<td>14</td>
<td>422</td>
</tr>
<tr>
<td>5</td>
<td>250</td>
<td>15</td>
<td>440</td>
</tr>
<tr>
<td>6</td>
<td>280</td>
<td>16</td>
<td>450</td>
</tr>
<tr>
<td>7</td>
<td>300</td>
<td>17</td>
<td>470</td>
</tr>
<tr>
<td>8</td>
<td>370</td>
<td>18</td>
<td>480</td>
</tr>
<tr>
<td>9</td>
<td>440</td>
<td>19</td>
<td>510</td>
</tr>
<tr>
<td>10</td>
<td>360</td>
<td>20</td>
<td>510</td>
</tr>
</tbody>
</table>
PLAN

SECTION A-A

A  ASPH. CONC. SURFACE COURSE 1" THICK
B  "       "       "   1/2"

---

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CROSS REF</th>
<th>SPEC REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALTIC CONCRETE</td>
<td>SEC 13</td>
<td></td>
</tr>
<tr>
<td>BASE COURSE</td>
<td>SEC 5-54</td>
<td></td>
</tr>
<tr>
<td>SPACING</td>
<td>R-122</td>
<td></td>
</tr>
</tbody>
</table>

RADIUS RETURN FOR INDUSTRIAL AREAS

METROPOLITAN DADE COUNTY
PUBLIC WORKS DEPARTMENT

REV. SEC 3/10/8
APPROVED 3/17/72

STANDARD ROAD DETAIL

SHEET 1 OF 1

15.4
HALF SECTION TYPE 'G'

NOTES

1. THE CONTRACTOR WILL CONSTRUCT HEADER CURBS AT LOCATIONS REQUESTED BY THE RAILROAD COMPANY, AND CONSTRUCT PAVEMENT AS SHOWN.

2. THE RAILROAD COMPANY WILL FURNISH AND INSTALL ALL MATERIALS WITHIN 5' OF C. OF TRACKS, EXCEPT PAVEMENT.

3. ALL RAILS SHALL BE LINED AND LEVELED AS SHOWN ON PLANS.

4. SURFACE COURSE SHALL MATCH ADJACENT PAVEMENT AND BE FLUSH WITH TOP OF RAIL.
PLAN

BY RAILROAD COMPANY EXCEPT AS NOTED

PAVEMENT BY 12" PAVING CONTR' 3' 3" 2' 3' 2'

SURFACE COURSE - FILLER BLOCKS

BASE COURSE

3 VII FLUTE DOWELS

PRESS'ED INTO 1/2 PREBORED HOLES

STEEL RAIL CLAMP

CROSS TIE

HALF SECTION TYPE 'L'

NOTES

1. THE CONTRACTOR WILL CONSTRUCT HEADER CURBS AT LOCATIONS REQUESTED BY THE RAILROAD COMPANY, AND CONSTRUCT PAVEMENT AS SHOWN ON R-16.1

2. THE RAILROAD COMPANY WILL FURNISH AND INSTALL ALL MATERIALS WITHIN 5' OF C. OF TRACKS, EXCEPT PAVEMENT.

3. ALL RAILS SHALL BE LINED AND LEVELED AS SHOWN ON PLANS

4. SURFACE COURSE SHALL MATCH ADJACENT PAVEMENT AND BE FLUSH WITH TOP OF RAIL.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CROSS REF.</th>
<th>SPEC REF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE COURSE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METROPOLITAN</td>
<td>STANDARD ROAD DETAIL</td>
<td>16.2</td>
</tr>
<tr>
<td>DADE COUNTY</td>
<td>S.C.L.</td>
<td></td>
</tr>
<tr>
<td>PUBLIC WORKS</td>
<td>RAILROAD CROSSING</td>
<td></td>
</tr>
<tr>
<td>DEPARTMENT</td>
<td>MAJOR &amp; MINOR STREETS</td>
<td></td>
</tr>
</tbody>
</table>
GENERAL NOTES FOR SUPERELEVATIONS

1. Maximum rate of superelevation shall be 0.05' per foot.

2. Super-elevation shall be obtained by rotating the plane successively about the break points of the section until a slope of +0.0208' per foot is obtained. The plane shall then be rotated about the centerline of construction until the maximum super-elevation is reached.

3. When positive super-elevation is required, the slope of the gutter on the high side shall be a continuation of the slope of the super-elevated pavement.

4. In construction, short vertical curves shall be placed at all angular profile breaks within the limits of the super-elevation transition.

5. Minimum gutter grades within the limits of the super-elevation transition shall be 0.2%.

6. The variable super-elevation transition length "L" shall have a minimum value of 50 feet for design speeds under 40 mph and 75 feet for design speeds of 40 mph or greater.

7. For undivided pavements wider than two lanes, the super-elevation transition length "L" shall be:
   A. 3 lanes: 1.2 times the length for 2 lane highway
   B. 4 lanes: 1.5 times the length for 2 lane highway
   C. 6 lanes: 2.0 times the length for 2 lane highway

8. Roadway sections having lane arrangements different from those shown, but composed of a series of planes, shall be super-elevated in a similar manner.

NORMAL CROWN SUPERELEVATION (VARIES, 50 MPH)

 design speed transition slope of l
 50 MPH 1 100
 40 MPH 1 125
 30 MPH 1 150

 TANGENT CURVE
 0.6 L 0.4 L

 FULL SUPERELEVATION

 STRAIGHT LINE TRANSITION OF OUTSIDE HALF OF PAVEMENT FROM NORMAL CROWN SLOPE TO SUPERELEVATION SLOPE.

 - OUTSIDE EDGE OF PAVEMENT
 - SHORT VERTICAL CURVES ARE TO BE USED ON CONSTRUCTION TO AVOID ANGULAR BREAKS IN EDGE PROFILES.

 Q PROFILE AND GRADE LINE

 PAVEMENT EDGES

 PAVEMENT ROTATED ABOUT Q

 INSIDE EDGE OF PAVEMENT

 PAVEMENT WIDTH

 PAVEMENT WIDTH

 CROSS SLOPE EQUAL TO NORMAL CROWN SLOPES. BEGIN ROTATION ABOUT CENTERLINE AT THIS POINT.

 NORMALLY THE SWALE GRADES WILL BE AS SHOWN, HOWEVER THEY MAY VARY AS GOVERNED BY THE DRAINAGE SCHEME

 SECTION A-A NORMAL CROWNED SECTION

 SECTION B-B PLANE INCLINED SECTION

 SECTION C-C FULLY SUPERELEVATED SECTION

 NOTE

 TO ASSURE ADEQUATE DRAINAGE OR MAINTAIN A MINIMUM ELEVATION OF THE EDGE OF PAVEMENT, ROTATION MAY BEGIN AT SECTION B-B ABOUT THE INSIDE EDGE OF PAVEMENT.
NORMAL CROWN

SUPERELEVATION TRANSITION L₁ (VARIES, 50' MIN)

FULL SUPERELEVATION
STRAIGHT LINE TRANSITION OF OUTSIDE
HALF OF PAVEMENT FROM NORMAL CROWN
SLOPE TO SUPERELEVATION SLOPE

INSIDE PAVEMENT EDGES

TANGENT CURVE

OUTSIDE PAVEMENT EDGES

0.6L₁ 0.4L₁

SUPERELEVATION
TRANS L₁ (VARIES, 75' MIN)

OUTSIDE EDGE OF PAVEMENT
(OUTER ROADWAY)

SUPERELEVATED PAVEMENT, OUTER ROADWAY

INSIDE EDGE OF PAVEMENT
(BOTH ROADWAYS)

SUPERELEVATED PAVEMENT, INNER ROADWAY

OUTSIDE EDGE OF PAVEMENT
(INNER ROADWAY)

STRaight LINE TRANSITION OF OUTSIDE
HALF OF PAVEMENT FROM NORMAL CROWN
SLOPE TO SUPERELEVATION SLOPE

SECTION A-A
NORMAL SECTION

SECTION B-B
FULLY SUPERELEVATED
SECTION

**Design Speed**

<table>
<thead>
<tr>
<th>Speed (MPH)</th>
<th>Transition Slope at L₁</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>1:100</td>
</tr>
<tr>
<td>40</td>
<td>1:125</td>
</tr>
<tr>
<td>50</td>
<td>1:150</td>
</tr>
</tbody>
</table>

RAISE GRADE & ROTATE ABOUT C
OF CURVE TO PROVIDE ADEQUATE
DRAINAGE & SMOOTH RIDING CHARAC
TERISTICS AT INTERSECTING SIDE
STREETS SEE SHEET No —

GRADE LINE REFERS
TO THESE POINTS

MIN ½" (OR STEEPER
TO MATCH PAVEMENT SLOPE)

PAVEMENT WIDTH

RAISED CROSS SLOPE REF. SHEET No —
SIGN POST & BASE POST

WEIGHT - 300 LBS/FT

SIGN POST

BASE POST

RETAINER SPACER STRAP

(6) 1/4" - 18 UNC x 1 1/2" BOLT - PER ASTM A-354,
GRADE BD (GRADE B)

NUT - PER ASTM A-563, GRADE DH

LOCK WASHER - HEAVY DUTY EXTERNAL TYPE

FINISH CADMIUM PLATED PER ASTM
A-165-80, TYPE OS

STANDARD ROAD DETAIL

STREET SIGN POST

ASSEMBLY

METROPOLITAN

JADE COUNTY

PUBLIC WORKS

DEPARTMENT

REVISIONS

6/4/95

R 18.1

SHEET 1 OF 4
LARGE ANCHOR PLATE

A. LINE-UP 6" x 12" ANCHOR PLATE WITH 30" BASE POST.
B. ATTACH ANCHOR PLATE TO BASE POST WITH TWO (2) 7/8 - 18 UNC X 2 1/2" BOLTS, NUTS, AND LOCK WASHERS.

NOTE:
BASE POST WILL ACTUALLY GROOVE THE CONCRETE AT THE FLANGED ENDS

DRIVE BASE POST TO SIX (6) INCHES ABOVE GROUND
ROTATE STRAP TO VERTICAL POSITION TO BE USED ON LOOSE FILL AND SANDY SOILS.

PRIOR TO DRIVING BASE POST:
A. BORE A 3" DIAMETER HOLE THROUGH THE CONCRETE FLAG
B. DRIVE BASE POST TO SEVEN (7) INCHES ABOVE GROUND.
C. ROTATE STRAP TO VERTICAL POSITION.

STANDARD ROAD DETAIL
STREET SIGN POST
TYPICAL INSTALLATION

OLITAN COUNTY
C. WORKS

REVIEWED
6/4/86

R 18.1
SHEET 2 OF 4
TYPICAL SIGN ASSEMBLY

SIGN BLANK

NOTE:
STREET NAME SIGN ATTACHED PERPENDICULAR TO POST ON APPROVED MOUNTING BRACKET ONLY.

ROADSIDE SIGNS
NOTE
SIGN MESSAGES SHALL BE SILVER ON GREEN BACKGROUND
SHEETING SHALL BE TYPE B ENCAPSULATED LENS (COMMONLY
KNOWN AS "HIGH INTENSITY"), SHEETING SHALL INCLUDE A
TYPE I PRECOATED PRESSURE SENSITIVE ADHESIVE BACKING
AS PER "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF
ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS," SECTION
633.06, SHEET REFLECTIVE MATERIALS.

(*) DIMENSIONS FOR SPAN WIRE OR
MAST ARM MOUNT SIGNS

24

GROUND MOUNT
(SINGLE AND DUAL MESSAGE)

SPAN WIRE OR MAST MOUNT
(SINGLE AND DUAL MESSAGE)
"X" MEASURED FROM EDGE OF PAVEMENT TO C OF SIGN POST.
"Y" DIMENSION DETERMINES RADIUS OF EDGE OF PAVEMENT.
(*) SEE R 18.1 SHEET 3 OF 4 FOR ADDITIONAL INFORMATION

<table>
<thead>
<tr>
<th>RADIUS &quot;Y&quot;</th>
<th>&quot;X&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>0' TO 20'</td>
<td>12'</td>
</tr>
<tr>
<td>30'</td>
<td>12'</td>
</tr>
<tr>
<td>35'</td>
<td>15'</td>
</tr>
<tr>
<td>40'</td>
<td>18'</td>
</tr>
<tr>
<td>45'</td>
<td>21'</td>
</tr>
<tr>
<td>50'</td>
<td>24'</td>
</tr>
</tbody>
</table>

MAJOR / MINOR INTERSECTIONS

THE MINOR STREET WILL HAVE STOP / STREET NAME SIGNS INSTALLED AT BOTH CORNERS: (ABOVE STOP SIGN - SEE R 18.1 SHEET 3)

MINOR INTERSECTIONS

IF THRU STREET RUNS NORTH / SOUTH, THE STREET NAME SIGN WILL BE INSTALLED ON NORTHEAST CORNER, ABOVE STOP SIGN.
IF THRU STREET RUNS EAST / WEST, THE STREET NAME SIGN WILL BE INSTALLED ON NORTHWEST CORNER, ABOVE STOP SIGN.

NOTE: (*)
IN CASES WHERE THE STREET DEAD ENDS AND HAS NO INTERSECTING STREETS, A WARNING SIGN WITHOUT OUTLET (W 14-2), MUST BE INSTALLED ON THE OPPOSITE SIDE OF THE STREET.