

**Utility Accommodation & Appurtenance Specifications  
For Public Rights of Ways**

**Sections 370, 375, 380, 385**

**A portion of  
Part 2 of the Public Works Manual**

**First Edition**

## Section 370

370.01

**Intent and Purpose:** It is the intent of the County to promote the public health, safety and general welfare by adopting and administering reasonable rules and regulations not inconsistent with State and Federal law for the placement or maintenance of cables, conduits, cabinets, transformers, pedestals, handholes, manholes, poles, auxiliary structures or any other appurtenance related to utility installations in the Public Rights-of-Way within the County; Establishing reasonable rules and regulations necessary to manage the placement and maintenance of utility installations in the Public Rights-of-Way by all companies and his or her contractors and minimizing the disruption to the Public Rights-of-Way. It is the intent of the County to treat all utility companies in a nondiscriminatory and competitively neutral manner when imposing rules or regulations governing the placement or maintenance of Facilities in public roads and/or Public Rights-of-Way.

370.02

**Use of County Public Rights-of-Way; Construction Requirements; Alteration of the System; Access by County:** Subject to all applicable provisions of the County, a utility company may perform all necessary work to construct, occupy and maintain its Facilities. The utility must comply at all times with all policies, procedures and directives of the Public Works Department, the Planning and Zoning Department and the Building Department. Prior to the installation, placement or removal of any conduits, cables, pole or pole lines, facilities, appurtenances or the start of any other type of construction on the County's public rights-of-way, the Utility shall, pursuant to the requirements of existing or subsequently enacted County ordinances, obtain all permits from, and where applicable pay all fees to, the Public Works Department, the Planning and Zoning Department and the Building Department. The issuance of a permit by the County shall not be construed by the utility as a warranty that the placement by the utility of its conduits, cables, pole or pole lines, facilities, appurtenances or the start of construction, is in compliance with all applicable rules, regulations or laws. All construction and maintenance of the utility's installation within County public rights-of-way incident to utility's provision of service shall, regardless of who performs installation and/or construction, be and remain the responsibility of the utility.

The utility's work performance, equipment, and job sites shall be in compliance with all applicable County, State and Federal requirements and shall conform to the provisions of the Public Works manual. The utility's work, while in progress, shall be properly protected at all times with suitable barricades, flags, lights, flares or other devices as required by the Manual on Uniform Traffic Control Devices, FDOT Roadway and Traffic Design Standards and/or any requirements of the Public Works Department to protect all members of the public having occasion to use the portion of the streets involved or adjacent property. The utility shall at all times employ due care and shall install, maintain and use commonly accepted methods and devices for preventing failures and accidents which are likely to cause damage, injuries or nuisances to the public. All of the utility's structures and lines, equipment and connection in, over, under and upon the public rights-of-way of the County wherever situated or located shall at all times be kept and maintained in a safe, suitable, substantial condition, and in good order and repair.

All transmission and distribution structures, poles, fixtures, lines, appurtenances and equipment erected by the utility within the County's rights of way shall be so located as to cause minimum interference with the proper use of streets, alleys, and other public ways and places, and to cause minimum interference with the rights and reasonable convenience of property owners who may join any of the said street, alleys or other public ways and places. Construction or maintenance of cables, conduits, cabinets, transformers, pedestals, handholes, manholes, poles, auxiliary structures or any other appurtenance related to utility installations in the Public Rights-of-Way within the County shall be constructed, operated or maintained in such a manner that it does not violate Americans with Disabilities Act (ADA), as it shall be amended from time to time and regulations promulgated thereunder.

Construction plans submitted for review shall be drawn to scale and show dimensions of all features existing in the rights-of-way or that are proposed for a distance no less than two hundred (200'). Features will include but not limited to:

- Rights of Way
- Public utility easements
- Recorded easements
- Property lines
- Drainage features
- Existing utilities
- Driveways
- Landscaping
- Any other feature as required by the department

**370.03**      **Protection of Underground utilities:** In connection with excavation in the public rights-of-way, utilities, where applicable, shall comply with the requirements of Article XIII.5 of Chapter 21 of the Code of Miami Dade County.

**370.04**      **Chapter 8AA of the Code of Miami-Dade County:** All articles under this Chapter shall apply to the public rights-of-ways.

**370.05**      **Restoration:** The public rights-of-ways, including sidewalks, curbs, gutters and landscaping must be restored to their legally permissible pre-existing condition, including any aesthetic enhancements thereto and any adjacent private property damaged during construction, maintenance or repair, of the Utility's facility within forty-five (45) days of completion of the construction, maintenance or repair. Construction and/or Reconstruction shall be in accordance with the Public Works Manual, the approved construction plans and with applicable codes, regulations and/or Ordinance of Miami Dade County, the Florida Green Book, FDOT Standard Specifications for Road and Bridge Construction and FDOT Roadway and Traffic Design Standards and the Florida Building Code.

**370.06**      **Approved excavation bridging methods:** If the work is stopped on the whole, or if any part of the trench is left open for an unreasonable length of time as determined by the public works department, the contractor shall refill or construct bridging of such trench or part thereof, in order to provide temporary access for vehicles and pedestrians:

- (a) Steel plates placed in any part of a roadway surface shall be pinned with railroad type spikes a minimum of four (4) inches long and three quarters ( $\frac{3}{4}$ ) of an inch in diameter with a minimum of two pins per side of each plate to prevent the steel plates from shifting or moving. Asphalt is required around the entire perimeter of the steel plates and shall be maintained by the contractor.
- (b) Temporary asphalt mix shall be placed over the trench immediately after backfilling, the temporary pavement shall be laid even with existing pavement as not to create a bump or a depression, and shall be maintained by the contractor.

**370.07**

**Bridging method for sidewalk:** When sidewalk is removed, the contractor must comply with the (ADA) and provide pedestrian access at all times. Immediately after work is complete, or work has been secured until the next work period, ADA access around the worksite must be provided. If access cannot be provided around the work site because of site conditions, then the path must be immediately restored using one of the following methods:

- (a) Temporary asphalt mix shall be placed immediately after backfilling. The temporary pavement shall be laid even with existing sidewalk as not to create a bump, depression or a vertical separation exceeding one quarter ( $\frac{1}{4}$ ) of an inch per foot and shall be maintained by the contractor.
- (b) Steel plates shall also be allowed to bridge damaged or missing sidewalks; however, the leading edges perpendicular to pedestrian traffic shall not exceed a quarter of an inch ( $\frac{1}{4}$ "") in vertical separation.
- (c) Any other method approved by the Engineer that meets the ADA standards.

**370.08**

**Limits of restoration:** The limits of asphalt restoration shall be in accordance to standard detail R21.1 pages 1, 2 & 3.

- (a) Patches to concrete sidewalks shall not be allowed. The sidewalk shall be saw cut to the nearest joints (Type A, B or C as described in the Public Works Manual) and the entire width and length to the joints of the sidewalk flag shall be replaced and installed to match existing.
- (b) Patches to plain concrete or stamped concrete driveway approaches shall not be allowed. If an aforementioned approach is cut or damaged by a utility, then the approach shall require full reconstruction from the edge of pavement to the right-of-way line or as required by the Director of Public Works.
- (c) Utilities shall be responsible for the maintenance of roadway and trench restorations to include the patch, full lane restoration and all other utility related issues for the lifetime of the utility.

## Appurtenances

**375.01**     **Exemptions:** All County utilities are exempt from section 375 of the Public Works Manual.

**375.02**     **Appurtenances:** For purposes outlined within this section of the Miami-Dade County Public Works Manual, the word “appurtenance” shall mean any cabinet, splice box, transformer, amplifier, pedestal, auxiliary structure or any other at grade equipment associated with any utility facility. It is the intent of this section to address all facilities located at grade which service underground, overhead lines or any other type of facility in the public rights-of-way.

**375.03**     **Appurtenance size restrictions:**

At grade appurtenance size limit per the referenced public rights-of-way.

(1) Fifty (50) feet rights-of-way: Two (2) cubic feet, not to exceed thirty (30) inches in height.

(2) Sixty (60) to Seventy (70) feet rights of way: Eight (8) cubic feet, not to exceed forty eight (48) inches in height.

(3) Eighty (80) to One Hundred (100) feet rights-of-way: twenty four (24) cubic feet, not to exceed seventy two (72) inches in height.

**375.04**     **Zoning Districts not subject to 375.03.** Maximum appurtenance size restrictions for any roadway in the following districts: Seventy Five (75) cubic feet

BU-1	Neighborhood Business District
BU-1A	Limited Business District
BU-2	Special Business District
BU-3	Liberal Business District
IU-1	Industrial, Light Manufacturing District
IU-2	Industrial, Heavy Manufacturing District
IU-3	Industrial, Unlimited Manufacturing District
IU-C	Industrial District, Conditional
AU	Agricultural District
GP	Government Property
ORD	Office Park District

Restrictions: Appurtenance cannot be located within one hundred feet (100’) of any other zoning district not listed.

**375.05**     **Appurtenance installation:**

(a) No at grade appurtenance installations will be allowed in the public rights-of-way within one hundred and fifty (150’) feet of an identified public utility easement.

(b) At grade appurtenance in the public rights-of-way shall be mounted with their widest side parallel to the street.

(c) A maximum of two (2) appurtenances shall be allowed within five (5) feet of each other. Groupings of two (2) shall be located a minimum of one hundred (100) feet away from each other.

(d) No two appurtenances serving the same installation shall be allowed within one-hundred (100) feet of each other.

(e) The paint on appurtenances shall resist graffiti removal techniques.

(f) All appurtenances shall be marked with the name of the utility. The information shall be inconspicuous and no larger than one (1) inch lettering.

(g) Appurtenances shall not display any advertising.

(h) The placement of any at grade appurtenance shall not be placed:

- within fifteen (15) feet of a fire hydrant,
- within twenty (20) feet of a crosswalk,
- within thirty (30) feet of the approach to a stop sign or traffic control signal located at the side of the road,
- in a place or manner which blocks an existing access to a property,
- within ten (10) feet of the intersection of a sidewalk and the edge of a driveway,
- within seventy-five (75) feet of the center of the intersection of two streets,
- within six (6) feet of a tree,
- within thirty (30) feet of a bus stop,
- above a drainage facility,
- within ten (10) feet of any turn radius

(i) No installation shall interfere with any other utility up to and including, stormwater, sewer, water, gas, electric, communications utility or any other utility that is pre-existing in the public rights-of-way.

(j) Installation of any appurtenances must comply with Stopping Sight Distance and Sight Triangle requirements as defined in The Florida Green Book and FDOT Index 546 as it may be updated from time to time.

(k) All appurtenances must comply with the "Minimum Width of Clear Zone" standards as set forth by the Florida Greenbook as it may be updated. PWD may require guardrail, curb & gutter, or any other device if deemed necessary to protect the motoring public from the roadside hazard.

(m) Underground utility vaults shall be flush with the swale or sidewalk area. The cover shall be HS-20 loading and made of an anti-corrosive material.

(n) No concrete foundation for whatever purpose shall be allowed to be constructed more than four (4) inches above the existing grade.

**375.06 Screening of appurtenance:**

At the discretion of the Public Works Department, the utility will be required to install landscape as designed by the department or mechanical screening depending on the area. Applicant may be requested to landscape surrounding area as well.

**375.07 Compliance with current standards:** Compliance with the above referenced requirements will be necessary if the utility desires to upgrade existing facilities currently not in compliance or the utility changes more than fifty (50) percent of the existing appurtenance.

**375.08 Utility Handholes, Manholes, Pull Boxes:**

- (a) All utility handholes, manholes and pull boxes located in the public rights-of-way shall be able to resist HS-20 loading. No handholes or pull boxes shall be allowed on the roadway surface.
- (b) No handhole, manhole or pull box shall be located within ten (10) feet of any turning radius.
- (c) All handholes, manholes and pull boxes shall have the name of the utility clearly indicated on the lid.

## Utility Poles

380.01

**Poles:** For purposes of this section, a pole shall be defined as a wood, steel, concrete or fiberglass, slender, cylindrical or square structure with a base no greater than ten (10) percent larger in girth than the top of the pole. Poles are to be enclosed in nature with no lattice, A-Frame, web, or any other type of open construction. Poles are also referred to as utility pole, telegraph pole, telephone pole, power (electricity) pole, telegraph post or pole, or street light pole, upon which the utility's network equipment is situated.

- (a) Installation of any pole for any purpose within Miami-Dade County Rights-of-ways will not willfully, or otherwise, obstruct, damage, destroy or interfere in any way with the functioning of any drain or drainage system. Poles will not be installed within the drain field of a drainage system.
- (b) Installation of any pole must comply with the "Minimum Width of Clear Zone" standards as set forth by the Florida Greenbook as it may be updated.
- (c) Installation of any pole greater than eighteen (18") in width must comply with Stopping Sight Distance and Sight Triangle requirements as defined in The Florida Green Book and FDOT Index 546 as it may be updated from time to time.
- (d) All utilities will use existing poles whenever possible. No location of any pole or wire-holding structure of the utility shall be a vested interest and such pole shall be removed or modified by the grantee at its own expense whenever the governmental authority determines that the public convenience would be enhanced thereby.
- (e) All poles shall be so installed and located as to cause minimum interference with the rights and reasonable convenience of property owners who join on any road and at all times shall be kept and maintained in a safe, adequate and substantial condition, and in good order and repair.
- (f) Pursuant to Section G2.1 of this manual, on streets with curb & gutter, all poles shall be placed at the right-of-way line whenever possible.

380.02

### **Towers and Masts:**

No towers and/or masts shall be allowed in the public rights-of-way.

For purposes of this section, a tower and/or mast shall be any lattice, A-Frame, H-Frame or any open web type structure.

380.03

### **Installation of a pole for the sole purpose of locating wireless communication facilities.**

- (a) **New pole installation:** In areas where no other pole is available for co-locating wireless communication antennas, a new pole may be installed. This pole must be capable of co-locating other facilities up to and including other wireless antenna arrays.

- (b) No pole for the exclusive purpose of mounting a wireless communication antenna shall be allowed if any other utility pole is located within a one square quarter (¼) of a mile of the proposed installation. Documentation of denial for co-location from pole owner will be required.

**380.03.1 Permitted Rights-of-ways:**

- (a) Section Line and arterial roadways. In any zoning district
- (b) Half Section Line and collector roadways. In any zoning district
- (c) Any roadway within Approved Zoning Districts:

**380.03.2 Approved Zoning Districts:**

BU-1	Neighborhood Business District
BU-1A	Limited Business District
BU-2	Special Business District
BU-3	Liberal Business District
IU-1	Industrial, Light Manufacturing District
IU-2	Industrial, Heavy Manufacturing District
IU-3	Industrial, Unlimited Manufacturing District
IU-C	Industrial District, Conditional
AU	Agricultural District
GP	Government Property
OPD	Office Park District

**380.03.3 Restrictions:**

- (a) Poles for the purpose of placing wireless communication facilities within any local roadway within an approved zoning district cannot be located within one hundred feet (100') of any other zoning district not listed.
- (b) Pole and antenna maximum height restrictions will comply with section 385 of the Public Works Manual.
- (c) Appurtenances associated with Wireless Telecommunication facilities will comply with Section 375 of the Public Works Manual
- (d) Setback shall be equal to a minimum of 110 percent of the height of the Antenna and mounting structure, whichever is higher, to any residential structure.

**380.04 Poles for the sole purpose of leasing to other providers:**

No pole shall be allowed in the public right-of-way for the sole purpose of prospecting or speculative leasing to others. Communication providers must occupy and operate the facilities associated with the pole installation.

**380.05 Co-location: In the event a pole is installed pursuant to section 380.03 and the current provider refuses to allow co-location. The Public Works Department has the right to rescind all permits of the current provider and is subject to issuance of uniform civil violation.**

## Antennas

385.01

**Antennas in the public rights-of-way:** For purposes outlined within this section of the Miami-Dade County Public Works Manual, the word "Antenna" shall mean any device capable of transmitting or receiving audio, video or any other signal.

(a) The applicant shall demonstrate that all possible locations for installing the wireless communication facility in the public rights-of-way have been exhausted within one square quarter (¼) mile area. This will include a written, signed and notarized affidavit stating why these alternate private locations were not possible. The application will be considered if the justification is properly documented and cites a minimum of one or more of the following items as a reason to locate the facility in the public rights-of-way:

- (1) Attempts for zoning variances denied at the public hearing. (documentation is required from zoning).
  - (2) Available buildings or structures on private property within one square quarter (¼) mile are at structural capacity and cannot accommodate additional facilities. An affidavit signed and sealed from a structural engineer indicating that the structure used for co-locating is at capacity and additional providers are not possible.
- Financial Burden will not be considered an acceptable reason to locate the facility in the public right-of-way.

(b) Applicants seeking to erect antennas in the public rights-of-way shall demonstrate to the reasonable satisfaction of the county that no existing or approved tower or structure, irrespective of municipal and county jurisdictional boundaries, can accommodate the applicant's proposed antenna. The county reserves the right to hire an independent expert witness to evaluate any evidence submitted by applicants pursuant to this section.

(c) The applicant shall demonstrate that the proposed antenna will cure:

- (1) Signal interference problems; or
- (2) The applicant's lack of service coverage or capacity in the area intended to be served by the proposed antenna.

(d) The applicant shall provide information to permit independent verification of factual data relied upon by the applicant to establish 385.01(c) above, including, but not limited to the following:

- (1) The purpose for the proposed antenna; and
- (2) The following technical data for the antenna for each existing, authorized, pending and proposed adjacent facility:
  - site name or other reference;
  - facility latitude and longitude;
  - site elevation;

(3) For each antenna at each of the included facilities:

- height of antenna radiation center;
- antenna type and manufacturer;
- maximum effective radiated output power, including the maximum total power radiated from all channels;
- azimuth of main antenna lobe; and
- beam tilt and null-fill of each antenna.

(e) That the applicant shall reimburse the department for fees charged to the department for independent verification of factual data relied upon by the applicant.

**385.02** Permitted Rights-of-ways: Antennas used as part of a Wireless Communication Service Facility shall be permitted within the following type of roadways:

(a) Section Line and arterial roadways. In any zoning district

(b) Half Section Line and collector roadways. In any zoning district

(c) Any local roadway within Approved Zoning Districts:

**385.02.1** Approved Zoning Districts:

BU-1	Neighborhood Business District
BU-1A	Limited Business District
BU-2	Special Business District
BU-3	Liberal Business District
IU-1	Industrial, Light Manufacturing District
IU-2	Industrial, Heavy Manufacturing District
IU-3	Industrial, Unlimited Manufacturing District
IU-C	Industrial District, Conditional
AU	Agricultural District
GP	Government Property
OPD	Office Park District

**385.02.2** Restrictions:

(a) Antennas cannot be located within one hundred feet (100') of any other zoning district not listed.

(b) Setback shall be equal to a minimum of 110 percent of the height of the Antenna and mounting structure, whichever is higher, to any residential structure.

385.03

**Maximum height restrictions:** The top of the uppermost antenna array shall not exceed the following height per referenced rights of way. No antennas will be allowed on local roads outside of approved districts.

- (a) Section Line roadways and arterials: The top of the uppermost antenna array shall not exceed seventy five (75) feet in height as measured from grade.
- (b) Half Section Line roadways and collectors: Top of the uppermost antenna array shall not exceed fifty five (55) feet in height as measured from grade.
- (c) Any roadway within approved zoning district: The top of the uppermost antenna array shall not exceed seventy five (75) feet in height as measured from grade.

385.04

**Antenna Arrays:**

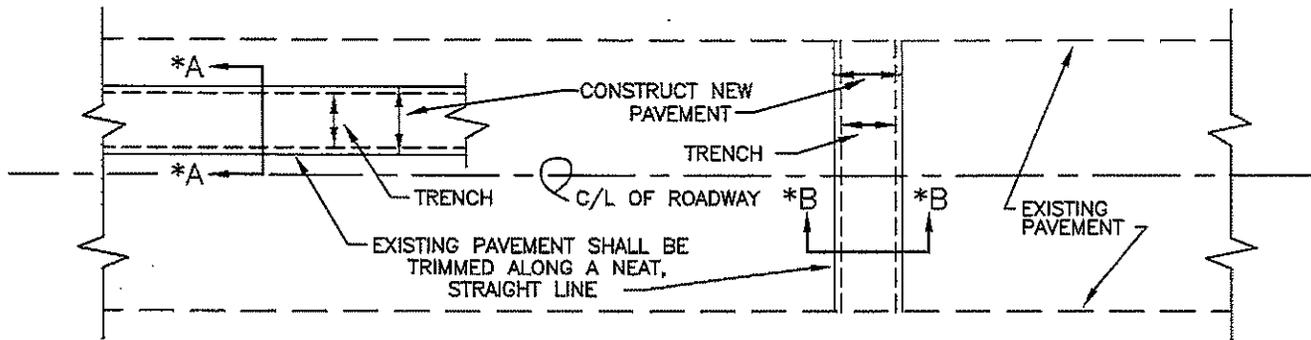
- (a) Cylinder Type Antennas arrays: No more than two cylinder type antenna shall be allowed per pole. Antennas shall be limited to two (2) levels of concealed antenna array up to a maximum of ten (10) feet per array, total height for both arrays, twenty (20) feet maximum. Antennas must be concealed in a cylinder to provide screening and shall match in color the existing surface of the pole. The screen shall not exceed the diameter at the top of the pole on which the antenna is mounted.
- (b) Omni-Directional type of whip antennas: these types of antennas may be co-located on other utility poles, but may not exceed three (3) whip antennas per pole. Said antenna shall not exceed five (5) feet from the top of the pole and not mounted more than twelve (12) inches from the pole.
- (c) Square Panel types of antennas: These types of antennas, shall not exceed eighteen (18) square inches in area, shall not be more than four (4) inches deep and shall be mounted within twelve (12) inches of the pole. No more than three (3) of such type antennas shall be located on a single pole. These antennas can be mounted in combination with cylinder type and omni-directional type.
- (d) Other antennas: No other antennas, transponders, repeaters, dishes, grid type dishes or any other type of antenna transmitting or receiving device shall be allowed in the public rights-of-way.

385.05

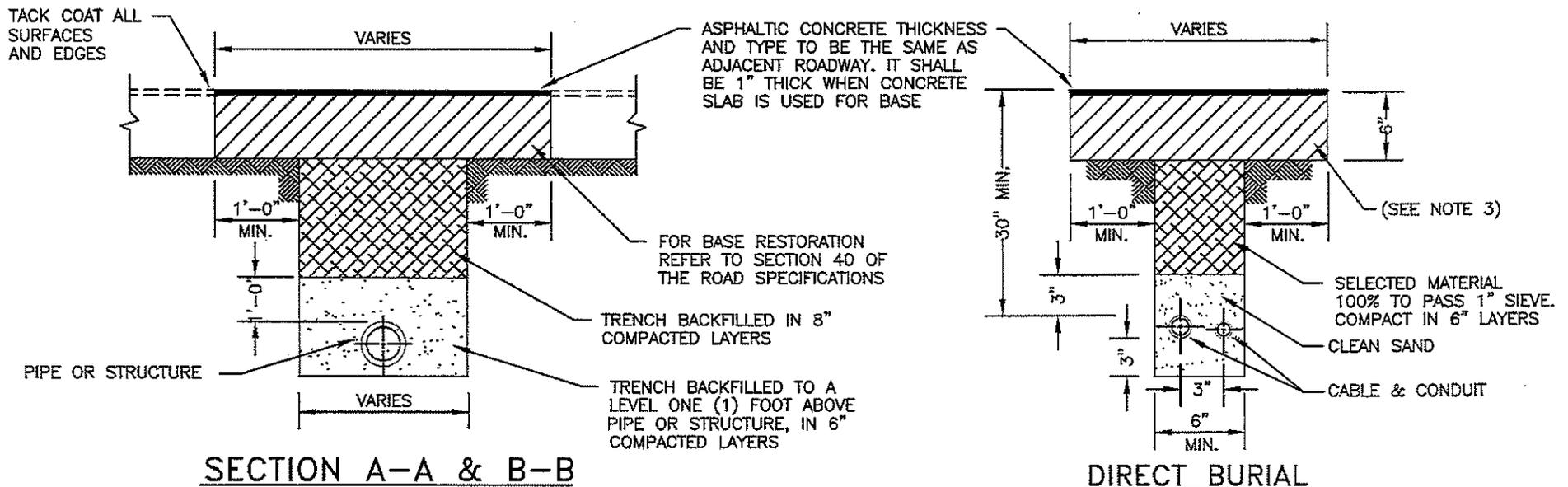
**Other Antenna Criteria**

- (a) No antenna facilities shall be allowed on the front of a home or a business in which the property address faces. Antenna facilities will be required on the side or back of the property not interfering with any access points to the property.
- (b) No signs or advertising shall be allowed on an Antenna.
- (c) No signals, lights, or illumination shall be permitted on an Antenna, unless required by any applicable federal, state or local rule, regulation or law.

- 385.06 **Abandonment of Antenna facilities:** Antenna facilities will be subject to Section 8AA-166. Abandonment of Facilities as outlined in the Code of Miami Dade.
- 385.07 **Antennas for amateur radio stations and Satellite dish antennas:** Shall not be allowed in the public rights-of-ways.
- 385.08 **Co-Location:** Utilities shall enter into agreements for the joint or common use of poles or other wire holding structures where poles or other wire holding structures already exist for the use in serving the County or serving the public convenience. No location of any pole or wire holding structure of the Provider shall be a vested interest, and such pole or structure shall be removed or modified by the licensee at its own expense whenever the County determines it to be necessary.



**PLAN**



**SECTION A-A & B-B**

**DIRECT BURIAL  
CABLE OR CONDUIT**

**NOTES:**

- 1.- PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.
- 2.- IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.
- 3.- CONTRACTOR MAY ELECT TO BACKFILL WITH 1:10 SAND-CEMENT MIX.

PVMT. RESTORATION		SEC 40
UTILITY PLACEMENT	G-21	
ASPHALTIC CONCRETE		SEC 133
BASE COURSE		SEC 51
ITEM	CROSS REF.	SPEC. REF.

**METROPOLITAN  
DADE COUNTY  
PUBLIC WORKS  
DEPARTMENT**

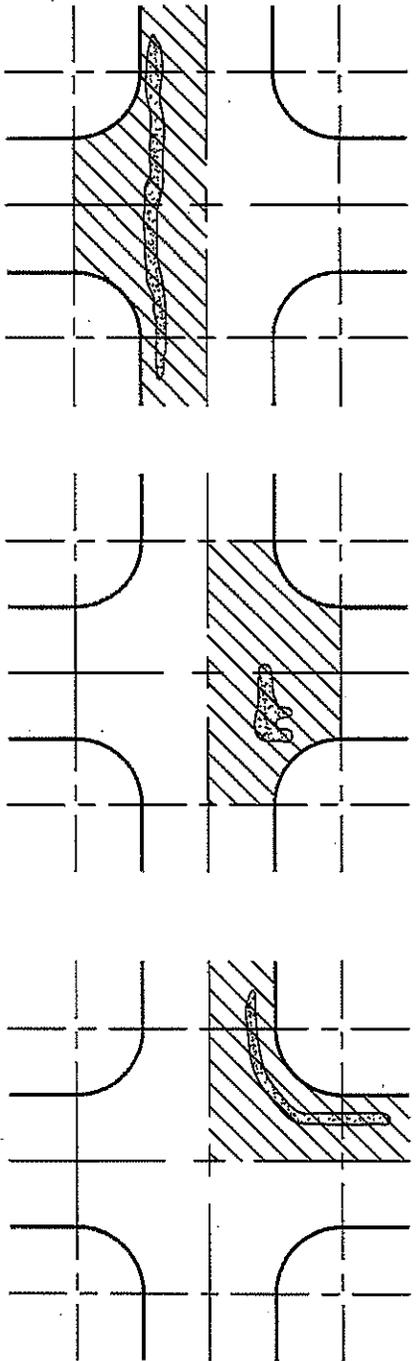
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6/5/61

**REVISED**  
5/17/72  
7/14/80  
6/4/86

**STANDARD ROAD DETAIL  
PAVEMENT RESTORATION FOR  
TRENCHES CUT IN PUBLIC  
RIGHTS-OF-WAY**

**R  
21.1**

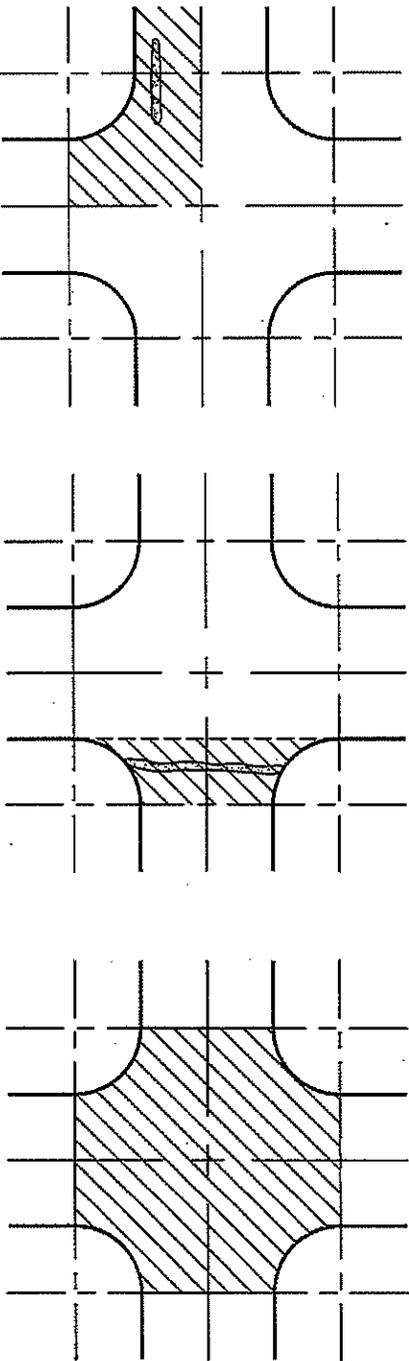
SHEET 1 OF 3  
R21-1.DWG CASS LV



CASE 1

CASE 2

CASE 3



CASE 4

CASE 5

SIGNALIZED INTERSECTIONS

NOTES:

- 1.-PLEASE NOTE THAT FOR CASES 1-5 NOTED ABOVE, FULL INTERSECTION OVERLAY WILL BE REQUIRED FOR ALL SIGNALIZED INTERSECTIONS WITHOUT EXCEPTIONS.
- 2.-RESTORE ALL PAVEMENT MARKINGS AS PER DADE COUNTY PUBLIC WORKS STANDARD.
- 3.-ANY VARIATION OF THE LIMITS OF PAVEMENT OVERLAYS SHOWN ABOVE, MUST BE APPROVED PRIOR TO REPLACEMENT BY DADE COUNTY PUBLIC WORKS DEPARTMENT
- 4.-ANY DAMAGE ENTERING AN ADJACENT INTERSECTION QUADRANT WILL REQUIRE THE REPAIR OF SAID QUADRANT

LEGEND:

- RIGHT OF WAY LINE
- ▨ LIMITS OF PAVEMENT.

ASPHALTIC CONCRETE		SEC.133
ITEM	CROSS REF.	SPEC. REF.

MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED 5/20/2009	REVISED _____ _____ _____	STANDARD ROAD DETAIL PAVEMENT RESTORATION FOR ROADWAY INTERSECTIONS	R 21.1 SHEET 2 OF 3
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MIAMI-DADE COUNTY  
PUBLIC WORKS DEPARTMENT

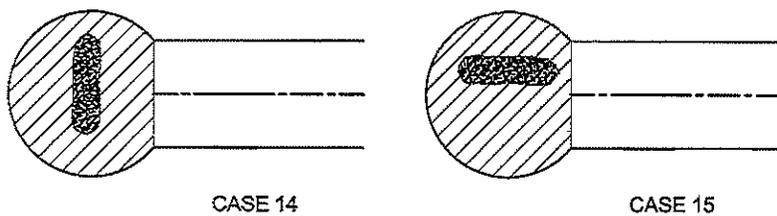
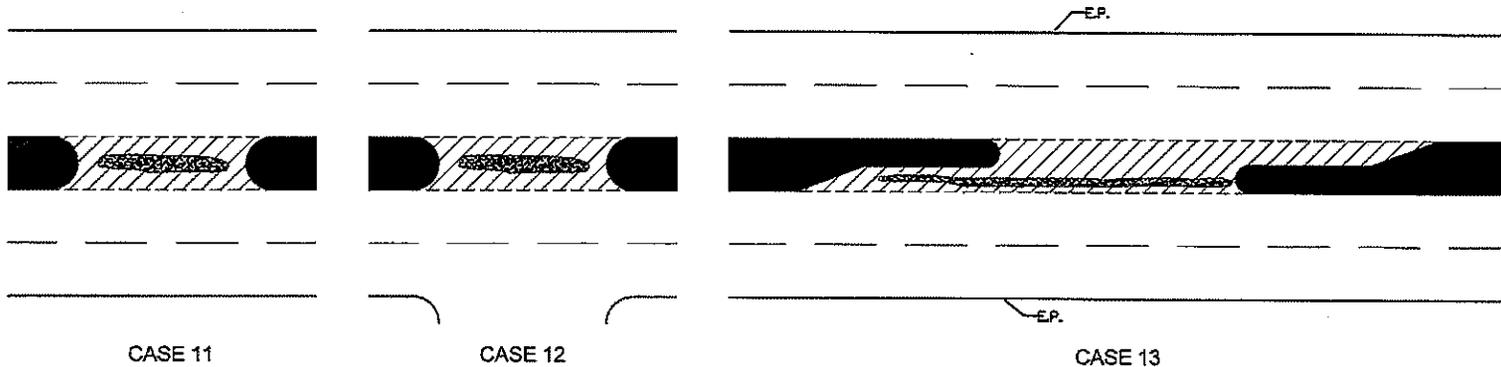
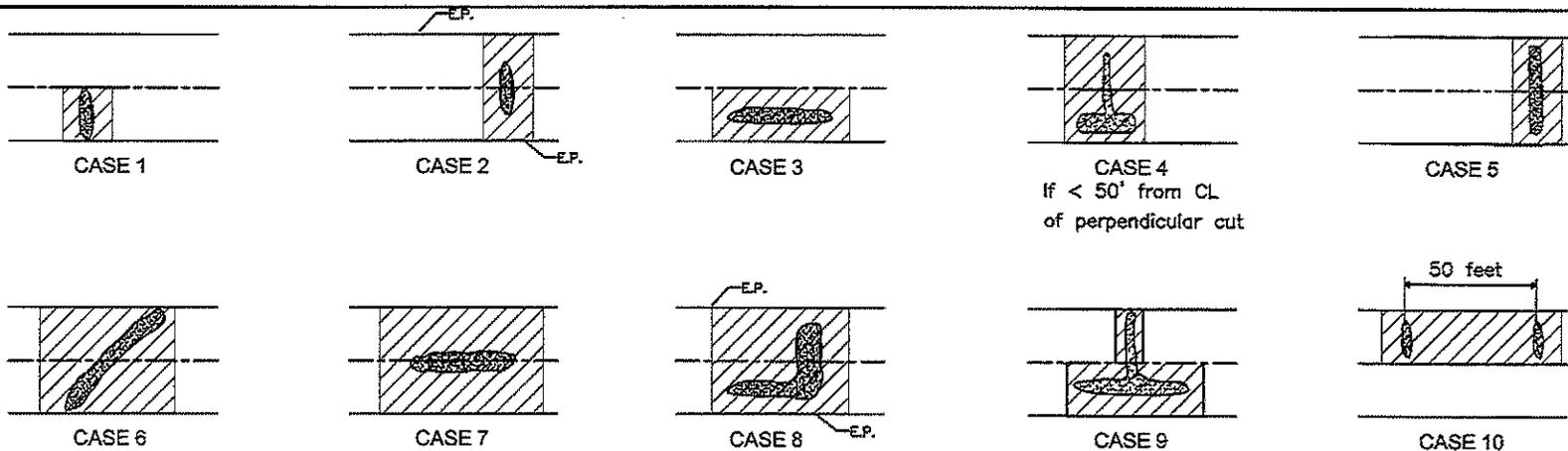
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REVISED

STANDARD ROAD DETAIL  
PAVEMENT RESTORATION FOR  
TRENCH CUTS

SHEET 3 OF 3

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21.1



**NOTES:**

1. ALL DAMAGED TRAFFIC LOOPS SHALL BE PROPERLY REPAIRED IN ACCORDANCE WITH CURRENT MIAMI-DADE COUNTY PUBLIC WORKS STANDARDS.
2. ALL PAVEMENT MARKING SHALL BE REPLACED IN ACCORDANCE WITH CURRENT MIAMI-DADE COUNTY PUBLIC WORKS STANDARDS.
3. ANY VARIATION TO THE LIMITS OF MILLING OR PAVEMENT OVERLAYS SHOWN ABOVE, MUST BE APPROVED PRIOR TO RESTORATION BY MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
4. PAVEMENT CUTS WITHIN FIFTY (50) FEET OF EACH OTHER SHALL BE RESTORED UNDER THE SAME PATCH.

**LEGEND:**

- RIGHT OF WAY LINE
- ▨ LIMITS OF PAVEMENT.

ASPHALTIC CONCRETE		SEC.133
ITEM	CROSS REF.	SPEC. REF.

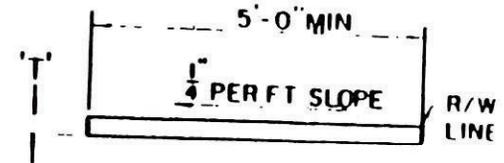
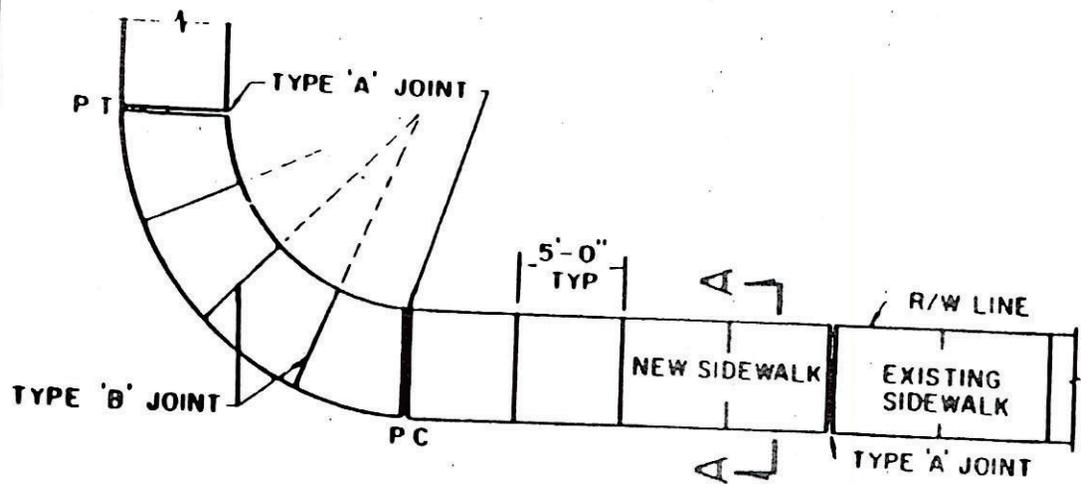
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DADE COUNTY  
PUBLIC WORKS  
DEPARTMENT

APPROVED  
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REVISED  
5/17/72  
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6/4/86

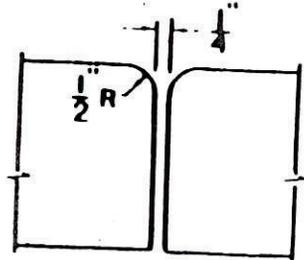
STANDARD ROAD DETAIL  
SIDEWALK CONSTRUCTION

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13.1  
SHEET 1 OF 1

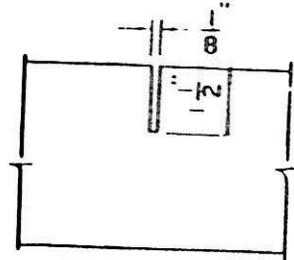


PLAN

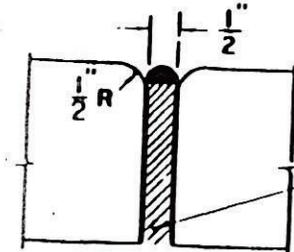
SECTION A-A



TYPE 'A'  
(OPEN TYPE JOINTS)



TYPE 'B'  
(SAWED JOINTS)



TYPE 'C'  
(EXPANSION JOINTS)

SIDEWALK JOINTS

TABLE OF SIDEWALK THICKNESS - 'T'	
LOCATION	T
RESIDENTIAL AREAS	4"
AT DRIVEWAYS AND OTHER AREAS	6"

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
A	PC AND PT OF CURVES. JUNCTION OF EXISTING AND NEW SIDEWALKS.
B	5'-0" CENTER TO CENTER ON SIDEWALKS.
C	* WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES

ITEM	CROSS REF	SPEC REF
ST INTERSECTION CONC SIDEWALK	R-152	SEC 145

\* AT THE DISCRETION OF THE ENGINEER

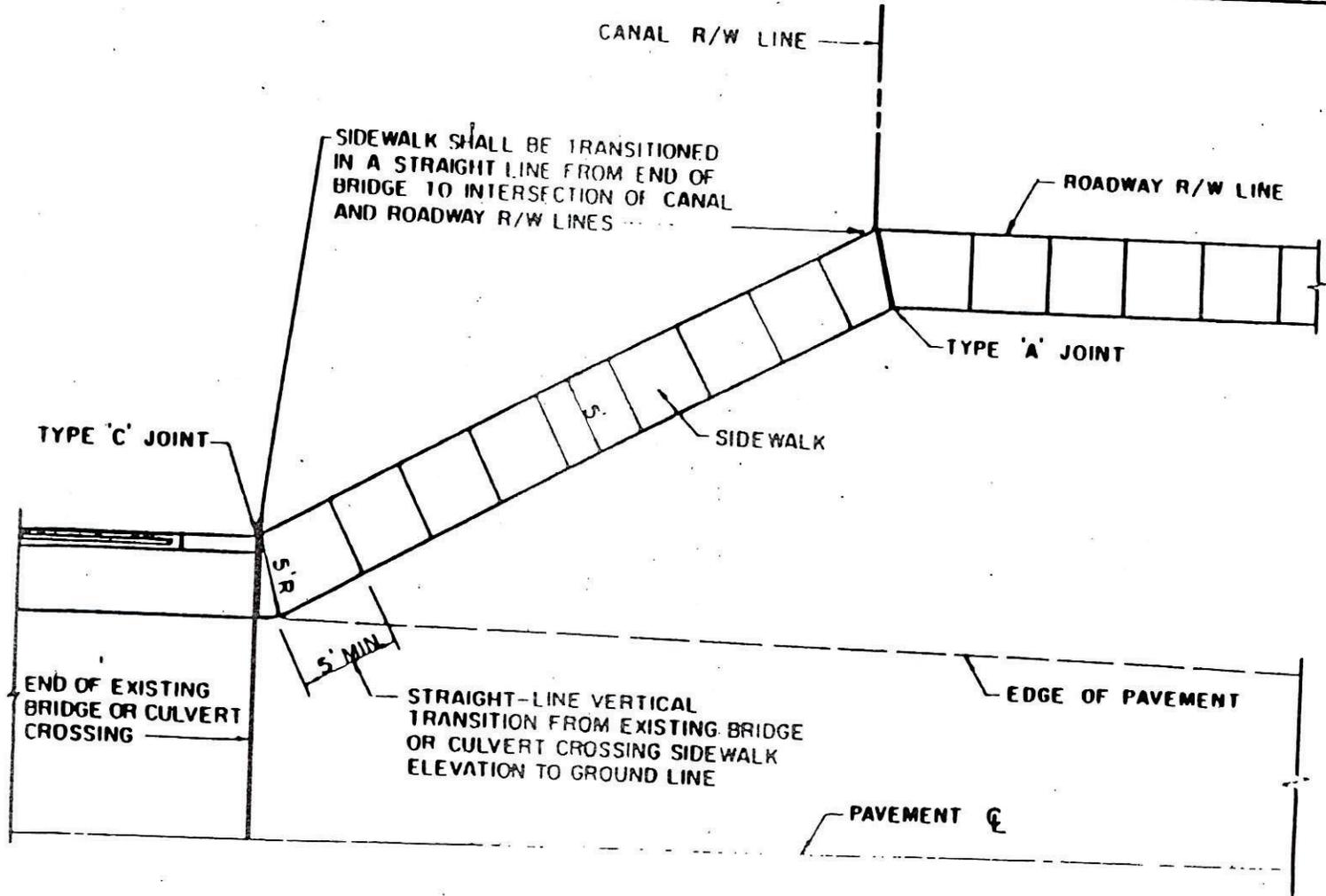
METROPOLITAN  
DADE COUNTY  
PUBLIC WORKS  
DEPARTMENT

APPROVED  
6/5/6

REVISED  
5/17/72  
3/5/77

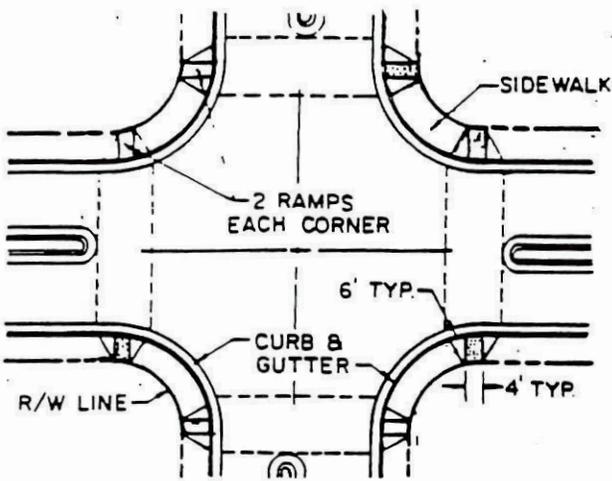
STANDARD ROAD DETAIL  
STANDARD SIDEWALK  
TRANSITION

R  
13.2  
SHEET 1 OF 1



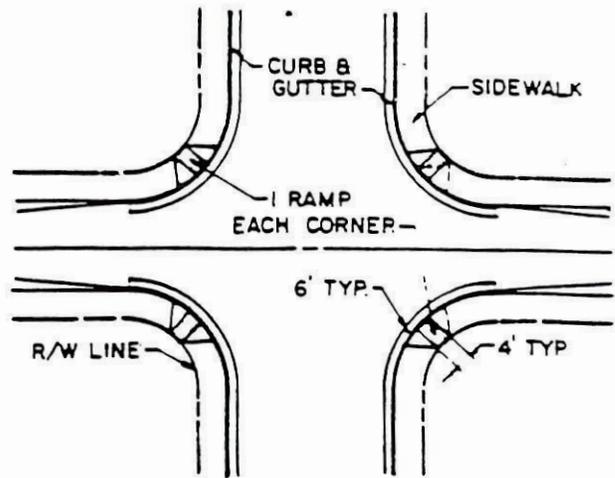
NOTE FOR NEW CROSSING CONSTRUCTION,  
SEE APPROPRIATE BRIDGE & CULVERT  
SECTION STANDARD DETAIL

ITEM	CROSS REF	SPEC. REF.
SIDEWALK CONST	R-13.1	SEC 145



**2 MAJOR ROADWAYS  
(CURB & GUTTER)**

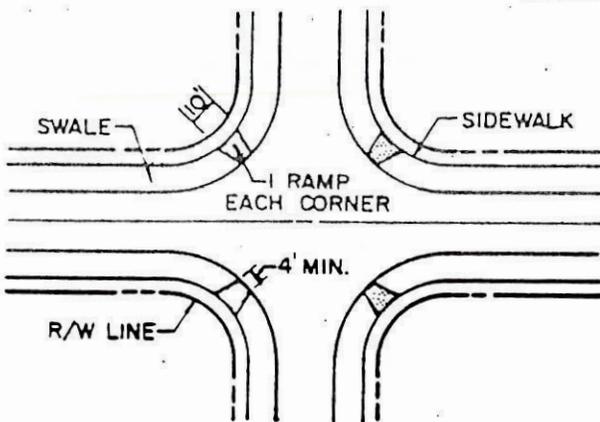
REF: Sec. 2a (1)(a)\*



**LOCAL ROADWAY OR ENTRANCE  
TO MAJOR SHOPPING CENTER  
(CURB & GUTTER)**

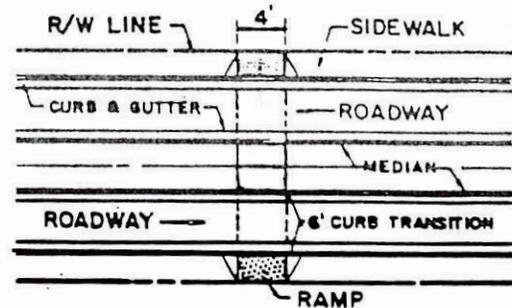
REF: Sec. 2a (1)(b)\*

**ROADWAY  
INTERSECTIONS**



**(RESIDENTIAL ROADWAYS)  
2 MAJOR ROADS, LOCAL & MAJOR  
ROADWAY, & 2 LOCAL ROADWAYS  
(SWALE)\*\***

REF: Sec. 2b (1)\*



**MID-BLOCK AT NORMAL  
PEDESTRIAN CROSSING  
(SWALE or CURB & GUTTER)\*\***

REF: Sec. 2a (2)\*

\*\* 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".

**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.

CURB & GUTTER	R 15.2	
ASPH. CONC. S. COURSE		SEC. 133
CONC. DRIVEWAY	R 12.6	
CONC. SIDEWALK	R-13.1	SEC. 145
ITEM	CROSS REF.	SPEC. REF.

METROPOLITAN  
DADE COUNTY  
PUBLIC WORKS  
DEPARTMENT

APPROVED  
9/15/72

REVISED

4/5/74

6/4/86

STANDARD ROAD DETAIL  
PEDESTRIAN RAMPS  
IN PUBLIC RIGHTS-OF-WAY

R  
13.3