CITY OF MIAMI

MIAMI-DADE COUNTY, FLORIDA

ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION

December, 2010

DEPARTMENT OF PUBLIC WORKS

444 S.W. 2ND AVENUE
MIAMI, FLORIDA, 33130

CITY OF MIAMI, FLORIDA

INTER-OFFICE MEMORANDUM

TO: Bill Anido
Interim Director, Public Works

DATE: November 17, 2009

FILE:

SUBJECT: Public Works Standards

FROM: Francis Mitchell
Assistant Director, Public Works

REFERENCES:

ENCLOSURES:

The long overdue revisions to the Public Works Department Engineering Standards for Design and Construction have been completed. These revisions include new standard sheets related to ADA requirements, streets typical sections, and other drainage details.

The following individuals have reviewed the current preliminary standards, and their signature states their approval.

11/17/09
Francis Mitchell, P.E.

11/17/09
David Mendez, P.E.

11/17/09
Len Helmers, P.E

At this time we are requesting your approval before making it official.

Bill Anido, P.E.

PREFACE

THIS MANUAL HAS BEEN PREPARED PURSUANT TO ORDINANCE NO. 7529, ADOPTED BY THE COMMISSION OF THE CITY OF MIAMI ON MARCH 17, 1967. IT ESTABLISHES MINIMUM STANDARDS PERTAINING TO THE DESIGN AND CONSTRUCTION OF ALL PUBLIC WORKS CONSTRUCTED IN THE RIGHT OF WAY AND PRESENTS THE LATEST ENGINEERING STANDARDS AS AN AID TO BOTH DESIGN AND CONSTRUCTION.

THE PRESENTATION OF THESE STANDARDS IN BOOK FORM SHOULD MAKE THE JOB OF THOSE PERSONS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL CITY OR PRIVATE PROJECTS MUCH EASIER. THEY WILL NOW HAVE THE MOST COMPLETE AND LATEST INFORMATION AT THEIR DISPOSAL. ANY EXISTING STANDARDS WHICH ARE IN CONFLICT WITH THIS MANUAL ARE HEREBY SUPERSEEDED.

THE DEPARTMENT OF PUBLIC WORKS ALSO PROPOSES TO USE PORTIONS OF THIS MANUAL AS INDIVIDUAL SHEETS TO BE INCLUDED IN THE SPECIFICATIONS, THEREBY ELIMINATING THE NECESSITY OF PRINTING LARGE STANDARD DETAIL SHEETS TO ACCOMPANY CONTRACT DRAWINGS.

THE FULL COOPERATION OF ALL DIVISIONS AND SECTIONS OF THE DEPARTMENT OF PUBLIC WORKS IS NECESSARY IN ORDER TO MAKE THIS MANUAL SERVE ITS INTENDED PURPOSE.

GENERAL INFORMATION

SECTION:

THIS MANUAL IS PROVIDED WITH DIVIDER SHEETS ON WHICH ARE PRINTED THE TITLE AND INDEX FOR EACH SECTION.

THE NUMBERING SYSTEM USED CONSISTS OF THREE NUMBERS GROUPED TOGETHER TO FROM A METHOD OF PAGE IDENTIFICATION, THESE NUMBERS DENOTE GENERAL OFFICE FILE, SECTION, AND PAGE NUMBER (i. e. 35–85–4).

35 – GENERAL OFFICE FILE
85 – CIVIL SECTION
4 – PAGE FOUR

THIS NUMBER IS LOCATED IN THE LOWER RIGHT HAND CORNER OF EACH PAGE OF THE TEXT.

NEW PAGES & REVISIONS:

BESIDES THE SECTION INDEX AN INDEX OF NEW PAGE NUMBERS AND OF REVISION NUMBERS WILL BE PREPARED AS REQUIRED. THIS INDEX WILL BE DISTRIBUTED WITH THE NEW OR REVISED SHEETS AND IS TO BE INSERTED IN THE MANUAL. THE USER CAN, BY CHECKING THIS SHEET, READILY FIND IF HIS COPY CONTAINS ALL OF THE LATEST CHANGES. NEW SHEETS WILL BE GIVEN THE NEXT NUMBER, IN SEQUENCE, OF THE SECTION IN WHICH THEY ARE TO BE PLACED. REVISIONS WILL BE ASSIGNED, BESIDES THE GENERAL NUMBER, A REVISION NUMBER AND A DATE, TO BE PLACED TO THE LEFT OF THE GENERAL NUMBER, THUS,

R–1	MISC.
7–56	00–00–00

"R–1" INDICATES THE FIRST REVISION OF THIS SHEET AND "7–56" THE EFFECTIVE DATE, IN THIS CASE JULY, 1956.

IN THE CASE OF A SHEET BEING DELETED FROM THE BOOK THAT NUMBER WILL BE DROPPED FROM THE SEQUENCE AND WILL NOT BE USED FOR ANY OTHER SHEET.

CONTENTS

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC.
CK:	CITY OF MIAMI, FLORIDA	

HIGHWAY INDEX

PLAN

STREET SIGN

WATER METER

FIRE HYDRANT

UTILITY VALVE

MANHOLE (EXIST.) } SMALL SCALE

MANHOLE (PROP.) } SMALL SCALE

MANHOLE (EXIST.) } LARGE SCALE

MANHOLE (PROP.) } LARGE SCALE

TYPE "F" CATCH BASIN (EXIST.)

TYPE "F" CATCH BASIN (PROP.)

TYPE "E" CATCH BASIN (EXIST.)

TYPE "E" CATCH BASIN (PROP.)

20' PVT. PROPOSED PAVEMENT

TYPE "D" CATCH BASIN (EXIST.)

TYPE "D" CATCH BASIN (PROP.)

MONUMENT

NAIL & DISK

UTILITY POLE (EXIST.)

UTILITY POLE (PROP..)

UTILITY POLE & GUY WIRE (EXIST.)

UTILITY POLE & GUY WIRE (PROP.)

ROCK WALL

CEMENT BLOCK WALL

SIDEWALK (EXIST.)

5' SWK SIDEWALK (PROP.)

N

STANDARD MERIDIAN

EXISTING PAVEMENT

(SHOW TRUNK DIA.)

TREE *PALM* *BUSH* *HEDGE*

—W— WATER MAIN SIDEWALK

—GAS— GAS MAIN

EXISTING SEWER LINE

(TYPES & SIZES NOTED ABOVE LINES)

PROPOSED SEWER LINE

—E— OR —T— ELECTRICAL OR TELEPHONE CONDUIT

—ML— MONUMENT LINE

—℄— CENTER LINE

CITY LIMTS LINE

—BBL— BASE BUILDING LINE

—x—x—x—x—x—x—x—x—x— FENCE

DESIGN AND CONSTRUCTION LEGEND

N.T.S. Jan. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-1
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

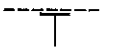
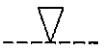
PROFILE

PROPOSED CURB GRADE

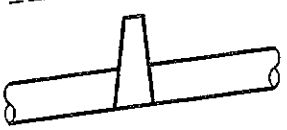
ELEVATION OF EXISTING CENTER LINE

ELEVATION OF N. OR E. BASE BUILDING LINE

ELEVATION OF S. OR W. BASE BUILDING LINE

	N. OR W.	*S. OR E.*
BACK OF EXISTING SIDEWALK		
TOP OF EXISTING CURB		
POINT 6" ABOVE EXISTING GUTTER WHERE CURB IS NON-EXISTENT		
APPROACH WALK OR DRIVEWAY AT B. B/L		
FLOOR ELEVATION OF BUILDING		
EXISTING CATCH BASIN (VERT. LINE = STATION) (HORIZ.. LINE = ELEV. OF FLOW LINE) (GUTTER)		

EXISTING UNDERGROUND AS NOTED



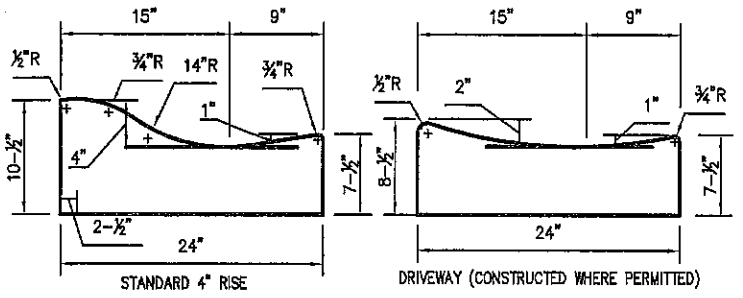
PROPOSED SEWER, TYPE AND SIZE AS NOTED

TITLE OF STREET OR AVENUE
SIDE STREET NAMES
ELEVATIONS & STATIONS
MISCELLANEOUS LETTERING
RECORD PROFILE TABLE

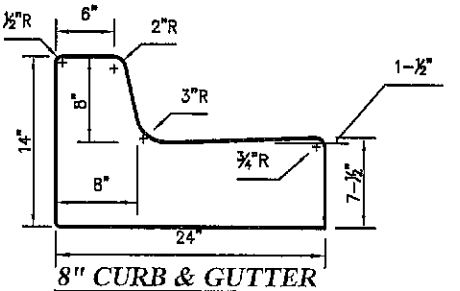
DESIGN AND CONSTRUCTION LEGEND

N.T.S. *Jan. 1954*

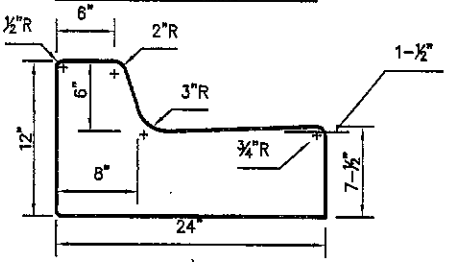
DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*R-1*	*MISC. 35-85-2*
CK:	*CITY OF MIAMI, FLORIDA*	*7-56*	*Sheet 1 of 1*



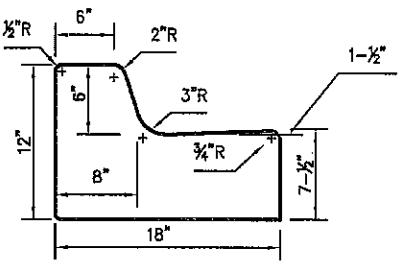
MOUNTABLE CURB & GUTTER



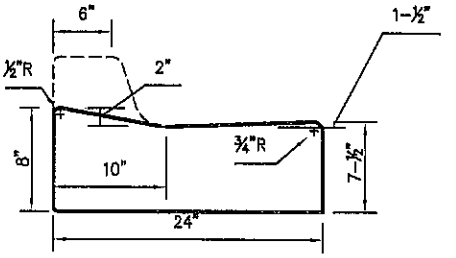
8" CURB & GUTTER



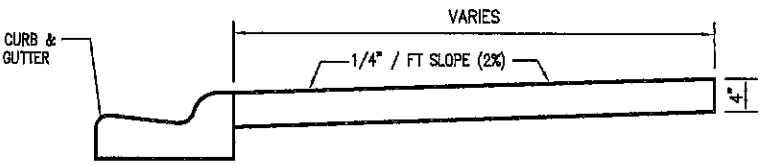
6" CURB & GUTTER (TYPE "F")



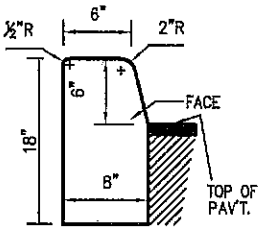
GREEN WAY CURB & GUTTER



DRIVEWAY CURB & GUTTER

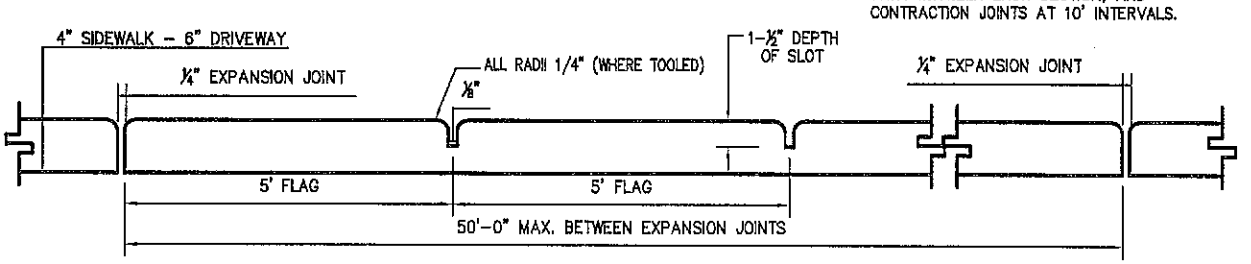


STANDARD CURB, GUTTER & SIDEWALK



6" CURB (TYPE "D")

CURB & GUTTER OR CURB SHALL BE CONSTRUCTED IN SECTIONS NOT TO EXCEED 50' IN LENGTH WITH ⅛" TO ½" OPEN EXPANSION JOINT BETWEEN EACH SECTION, AND CONTRACTION JOINTS AT 10' INTERVALS.



TYPICAL LONGITUDINAL SECTION OF SIDEWALK

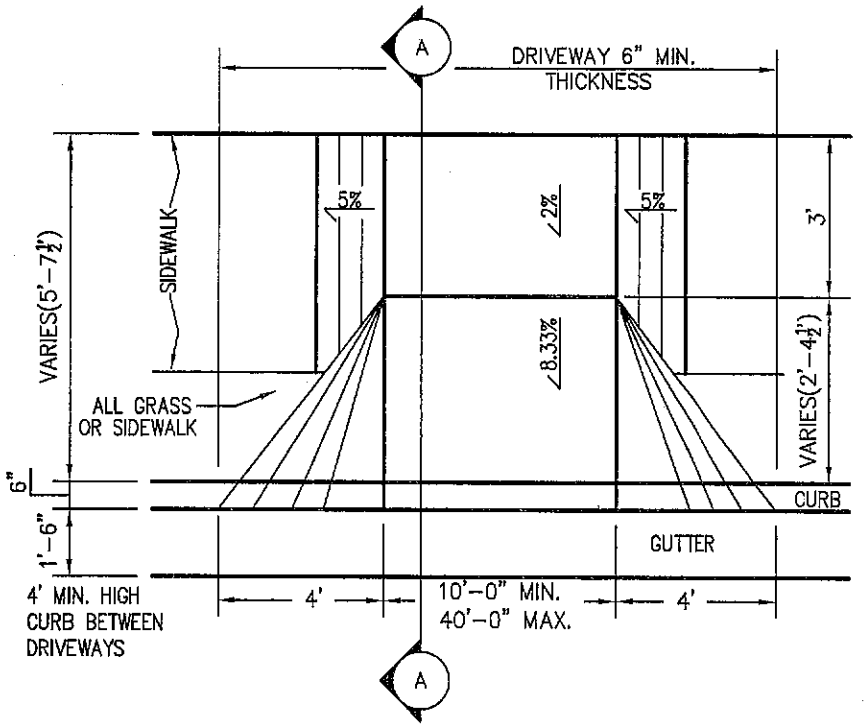
NOTE:

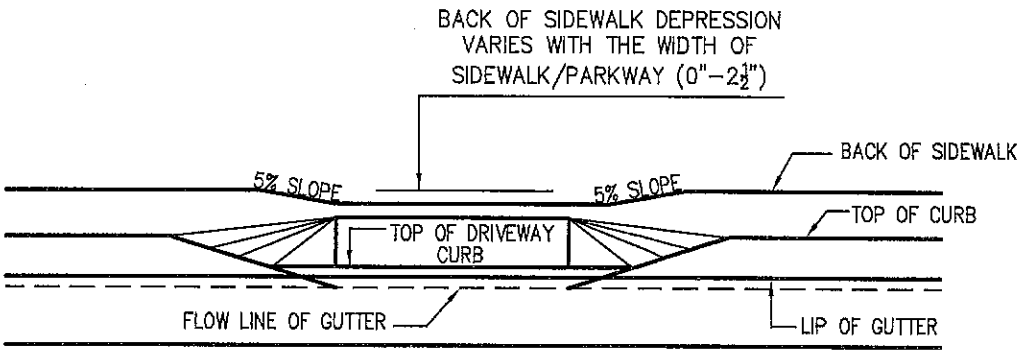
1.– ALL WORK SHALL COMPLY WITH CITY OF MIAMI STANDARD SPECIFICATIONS, MATERIALS: SEC. 302-1 & METHODS: SEC. 408.
2.– SUBGRADE COMPACTED TO 95% DENSITY AASHTO T-99.
3.– FOR ADDITIONAL GUTTER SECTIONS, REFER TO FDOT INDEX 300 SERIES.

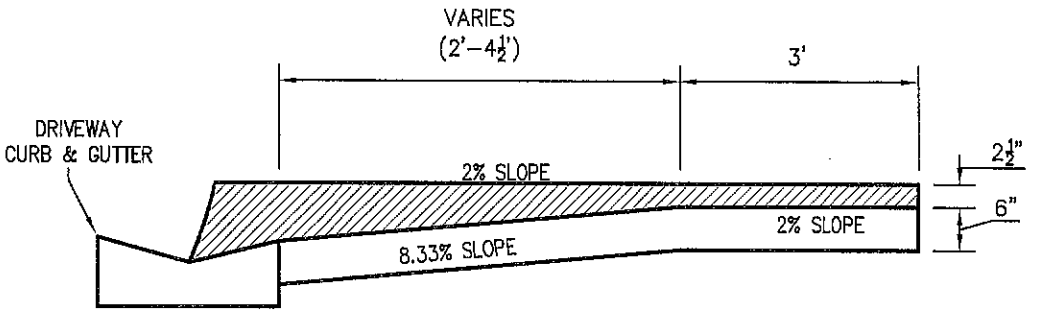
CURB & GUTTTER AND SIDEWALK DETAILS

N.T.S. Oct. 1962

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-14	MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 10



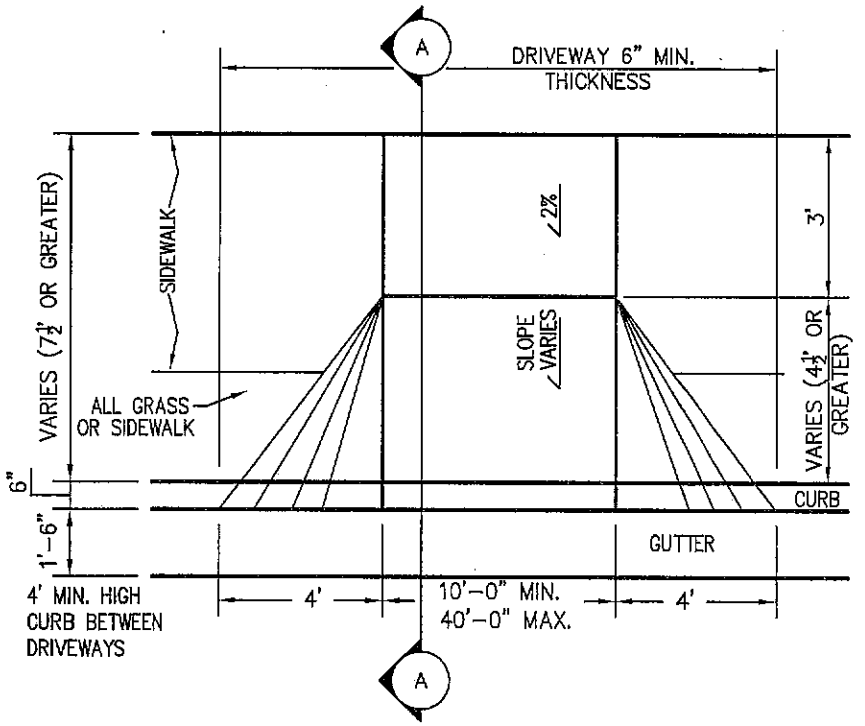


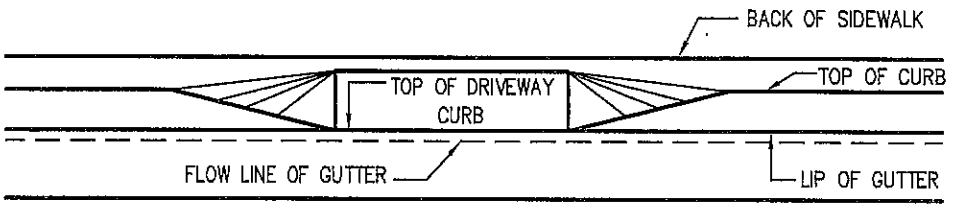


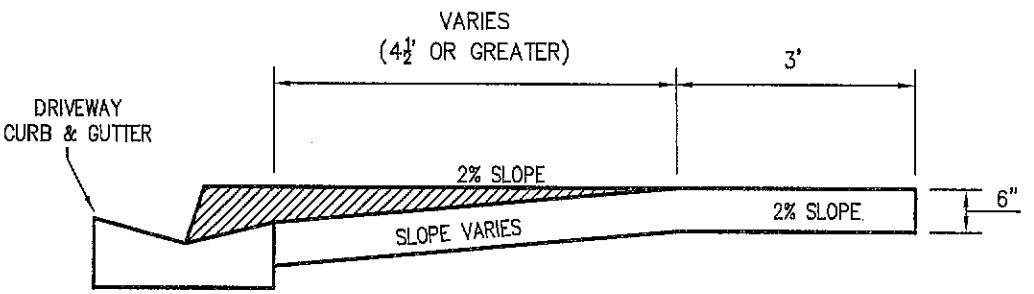
SECTION A-A

STANDARD DRIVEWAY DETAILS FOR SIDEWALK/PARKWAY LESS THAN 7'-6" IN WIDTH

	N.T.S.		Nov. 2007
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 10



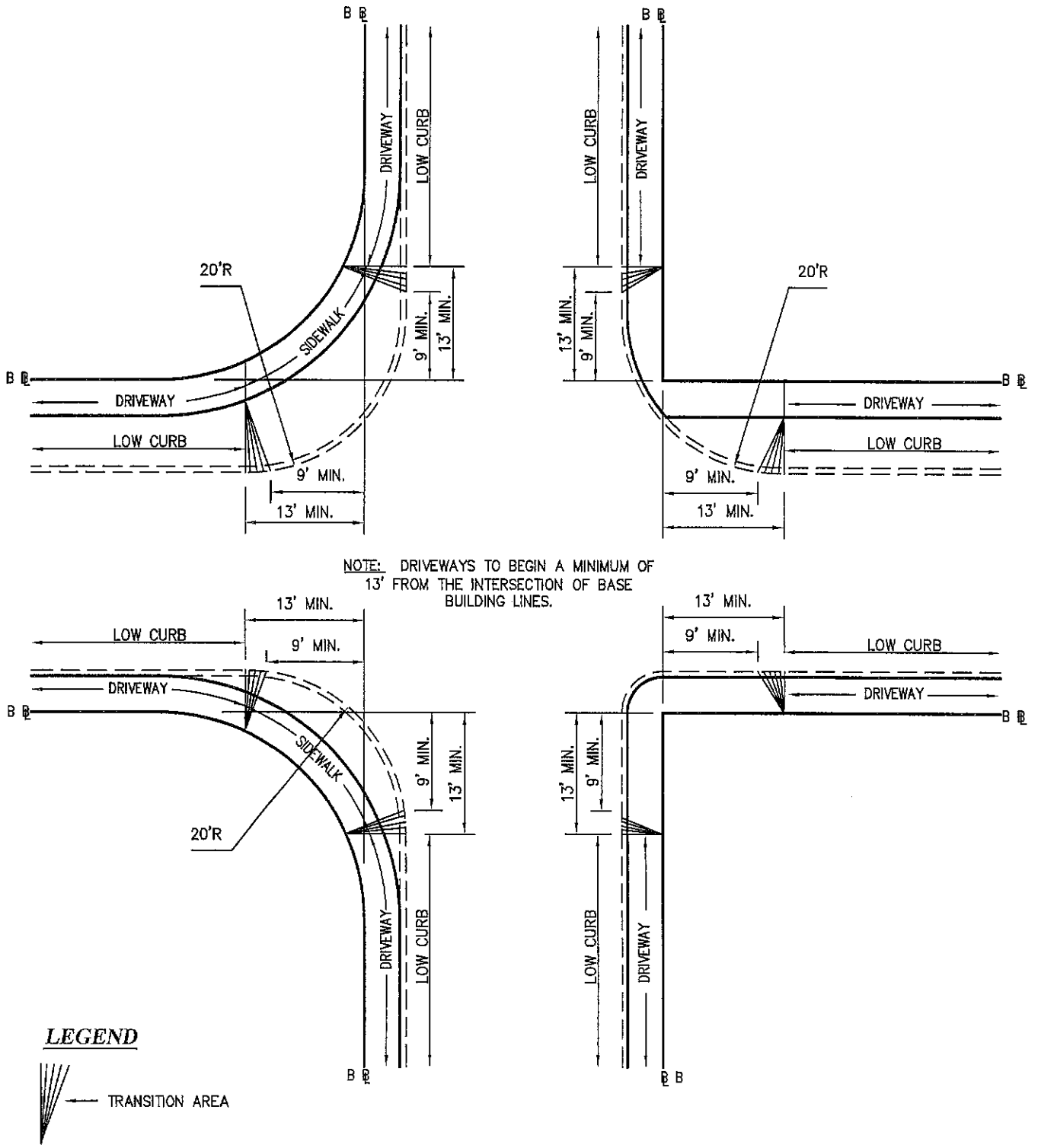




SECTION A-A

STANDARD DRIVEWAY DETAILS FOR SIDEWALK/PARKWAY GREATER THAN 7'-6" IN WIDTH

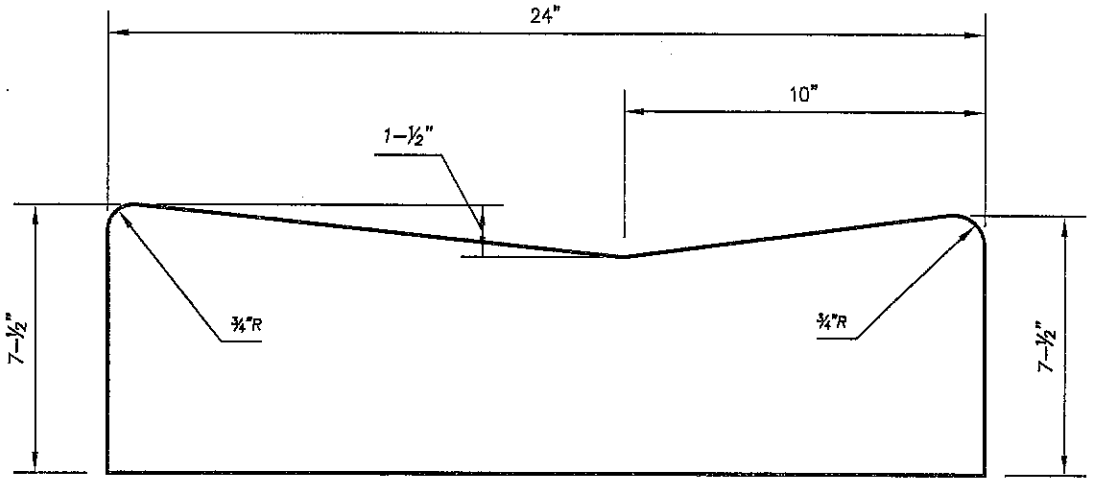
	N.T.S.		Nov. 2007
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 3 of 10



STANDARD DRIVEWAY LOCATION AT INTERSECTION DETAILS

N.T.S. Jul. 1957

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 4 of 10



NOTES:

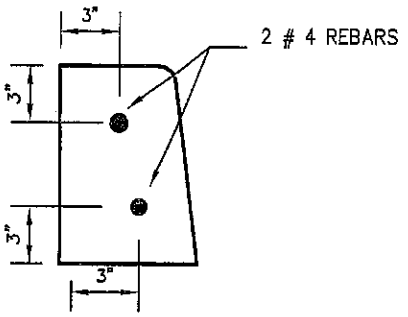
1.– ALL WORK SHALL COMPLY WITH CITY OF MIAMI STANDARD SPECIFICATIONS, MATERIALS: SEC. 302–1, AND METHODS: SEC. 408.

2.– SUBGRADE SHALL BE COMPACTED TO 95% DENSITY AASHO T–99.

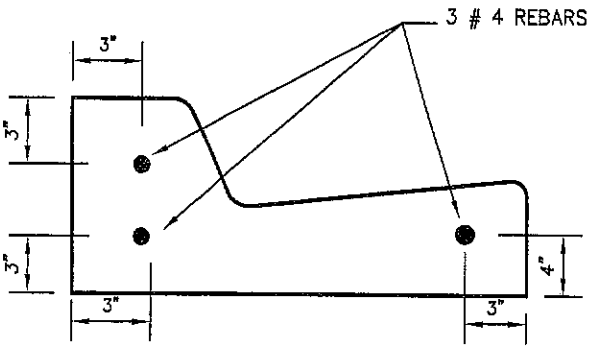
3.– VALLEY GUTTER SHALL BE CONSTRUCTED IN 50' MAXIMUM SECTIONS WITH ⅛" TO ¼" OPEN EXPANSION JOINT BETWEEN EACH SECTION AND CONTRACTION JOINTS AT 10' INTERVALS.

CONCRETE VALLEY GUTTER

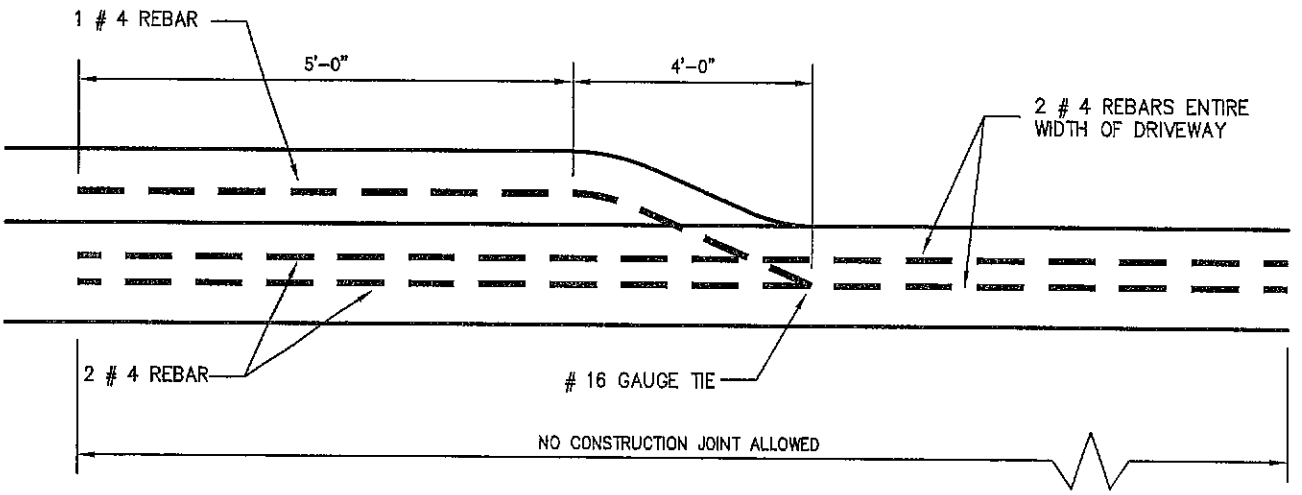
	N.T.S.		Oct. 1969
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35–85–22
CK:	CITY OF MIAMI, FLORIDA		Sheet 5 of 10



CROSS SECTION
STANDARD 6" CURB



CROSS SECTION
STANDARD CURB AND GUTTER



CROSS SECTION
TRANSITION TO LOW CURB

TYPICAL CURB OR CURB AND GUTTER REINFORCING

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC.35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 6 of 10

NOTE:

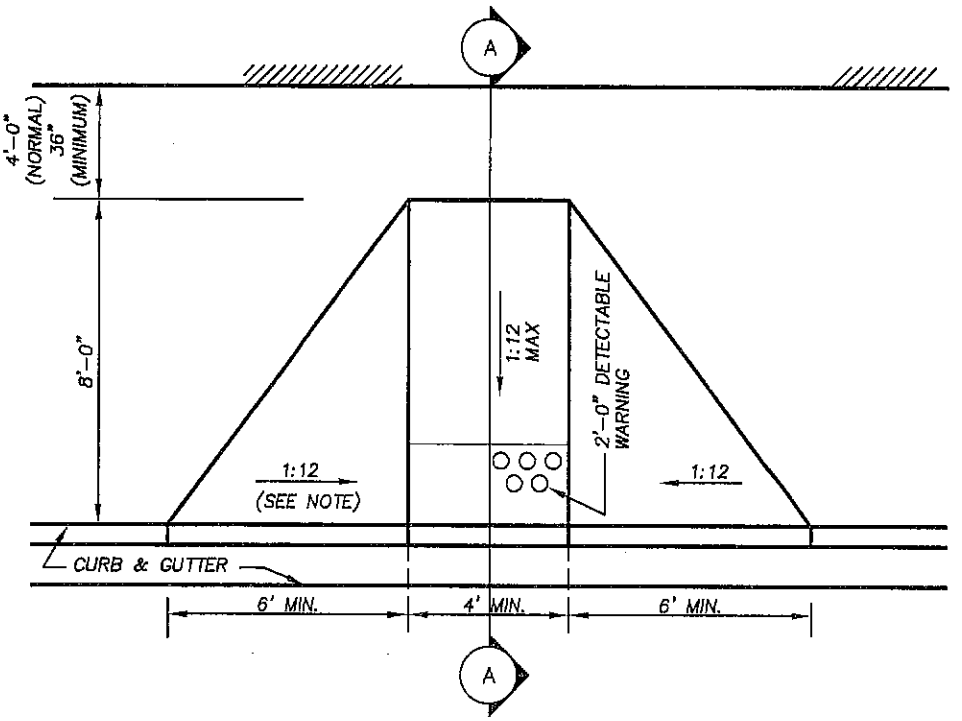
1–THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT SHALL REQUIRE HANDICAP RAMPS IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS" INDEX No. 0304 ENTITLED "PUBLIC SIDEWALK CURB RAMPS", LATEST REVISION.

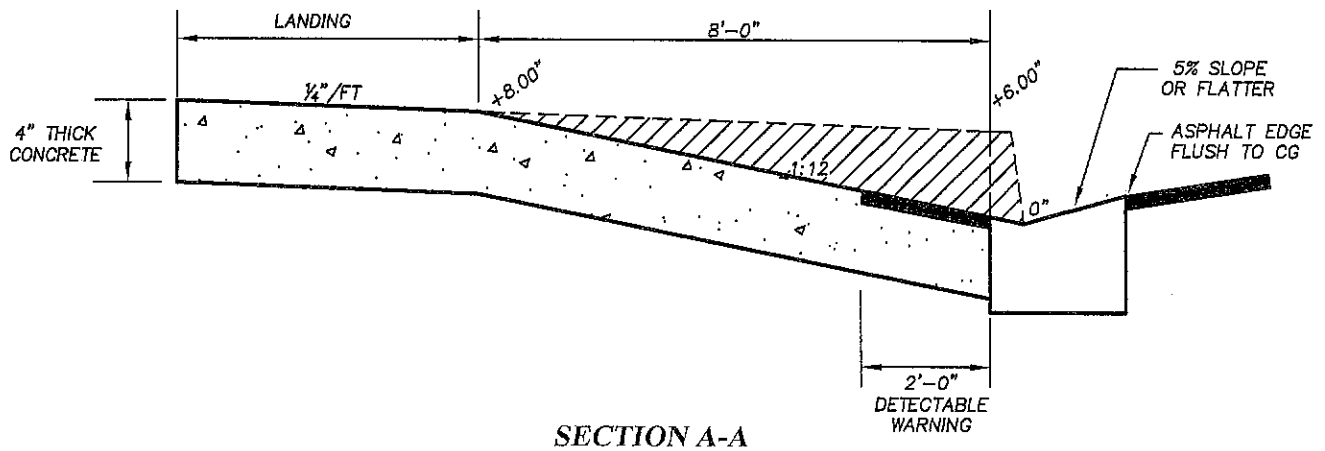
2–FOR CASES WHERE NO DETAIL IS AVAILABLE, THE DESIGNER SHOULD REFER TO THE AMERICAN WITH DISABILITIES ACT (ADA) MANUAL.

STANDARD RAMP FOR HANDICAPPED

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R–6	MISC. 35–85–22
CK:	CITY OF MIAMI, FLORIDA	3–05	Sheet 7 of 10





SECTION A-A

NOTE:

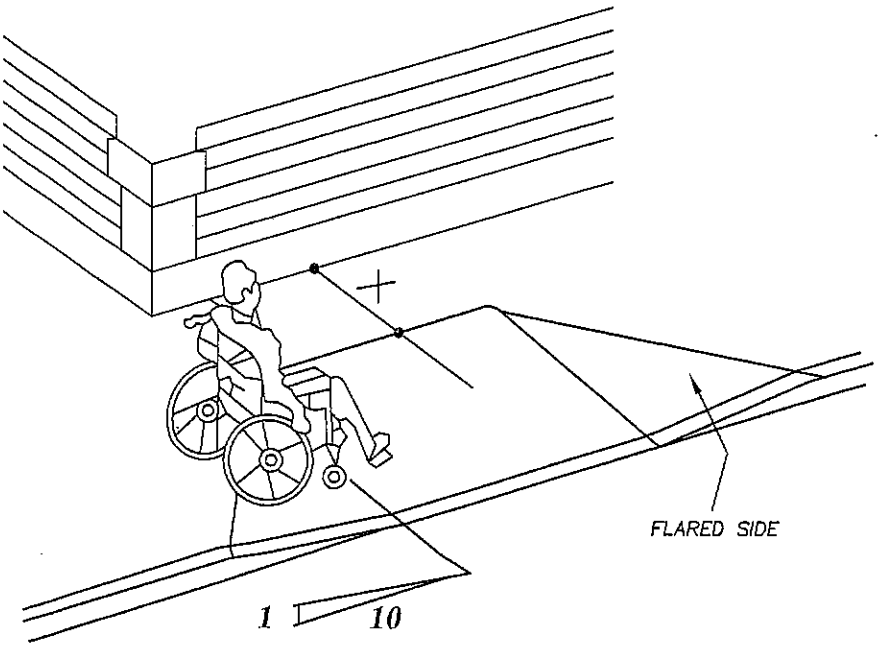
1– FLARE END SLOPE 1:12 IF LANDING LESS THAN 48" OTHERWISE FLARE END SLOPE 1:10

STANDARD RAMP FOR HANDICAPPED

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 8 of 10

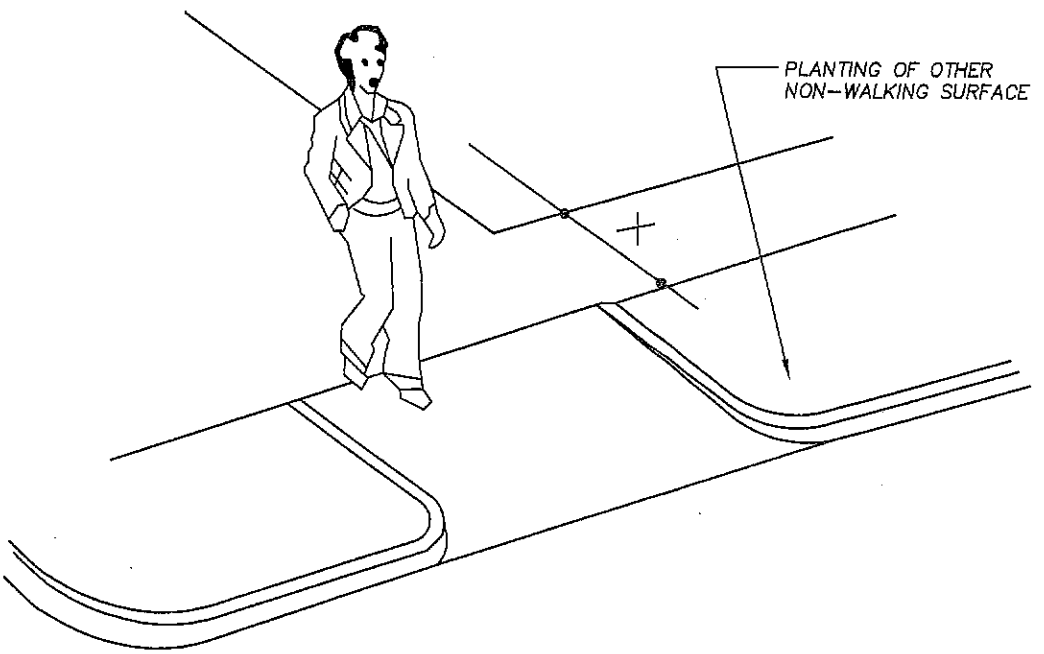
SIDES OF CURB RAMPS FLARED SIDES



NOTE: IF X IS LESS THAN 48 INCHES, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12.

THIS FIGURE SHOWS A TYPICAL CURB RAMP, CUT INTO A WALKWAY PERPENDICULAR TO THE CURB FACE, WITH FLARED SIDES HAVING A MAXIMUM SLOPE OF 1:10. THE LANDING AT THE TOP, MEASURED FROM THE TOP OF THE RAMP TO THE EDGE OF WALKWAY OR CLOSEST OBSTRUCTION IS DENOTED AS "X". IF X, THE LANDING DEPTH AT THE TOP OF A CURB RAMP, IS LESS THAN 48 INCHES, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12.

SIDES OF CURB RAMPS RETURNED CURB

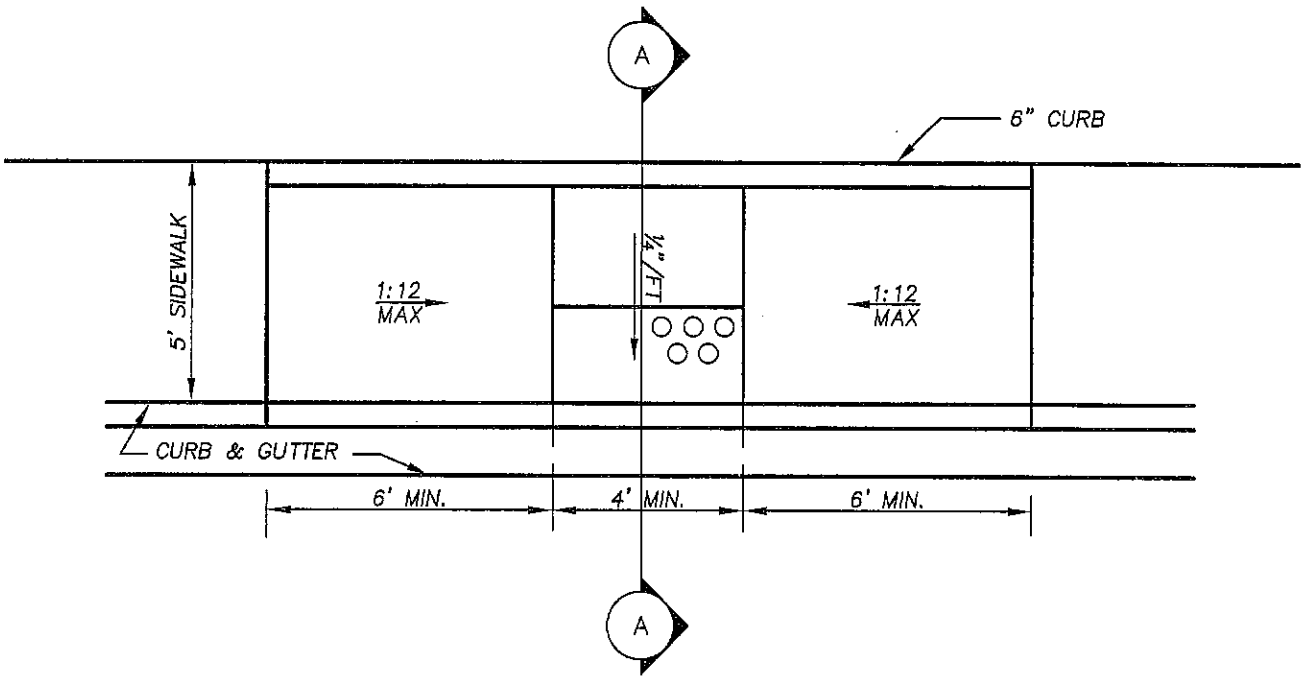


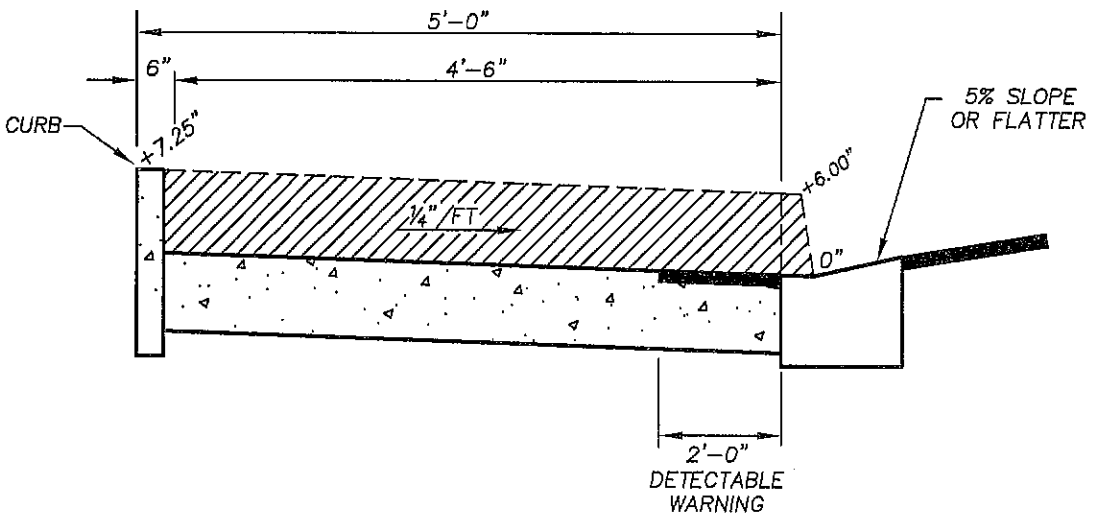
WHERE THE CURB IS COMPLETELY CONTAINED WITHIN A PLANTING STRIP OR OTHER NON-WALKING SURFACE., SO THAT PEDESTRIANS WOULD NOT NORMALLY CROSS THE SIDES, THE CURB RAMP SIDES CAN BE STEEP SIDES INCLUDING VERTICAL RETURNED CURBS.

HANDICAPPED RAMP FLARED SIDE AND LANDING DIMENSIONS

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 9 of 10





SECTION A-A

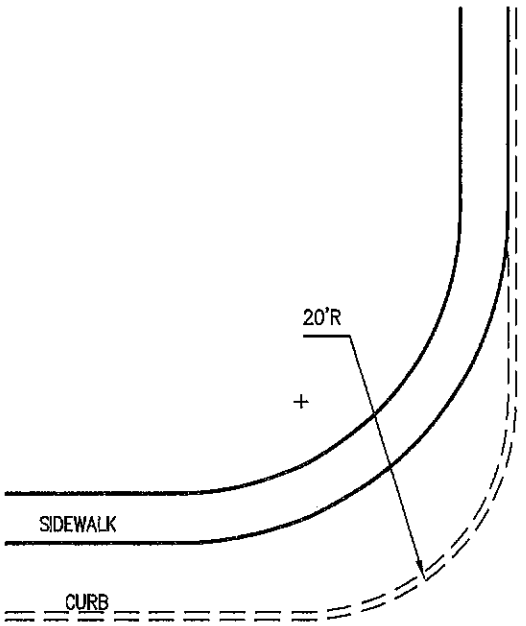
NOTE:

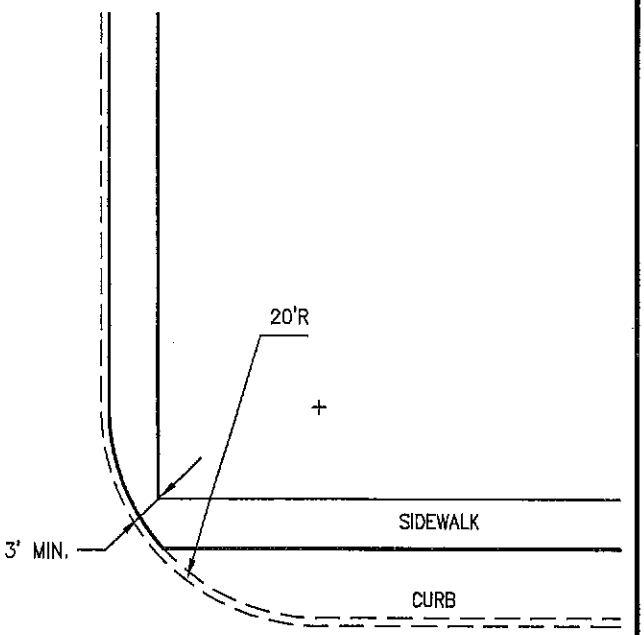
THIS RAMP SHALL BE USED WHERE A PEDESTRIAN CROSSING IS LOCATED WITHIN A CITY BLOCK AND SIDEWALK IS 5' OR LESS

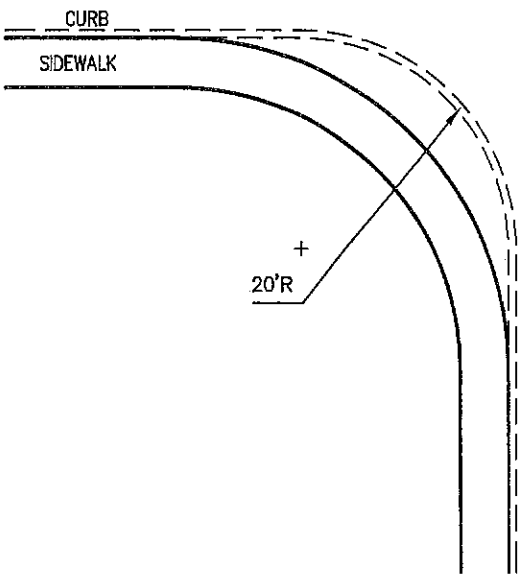
HANDICAPPED RAMP FOR 5 FOOT WIDE SIDEWALK

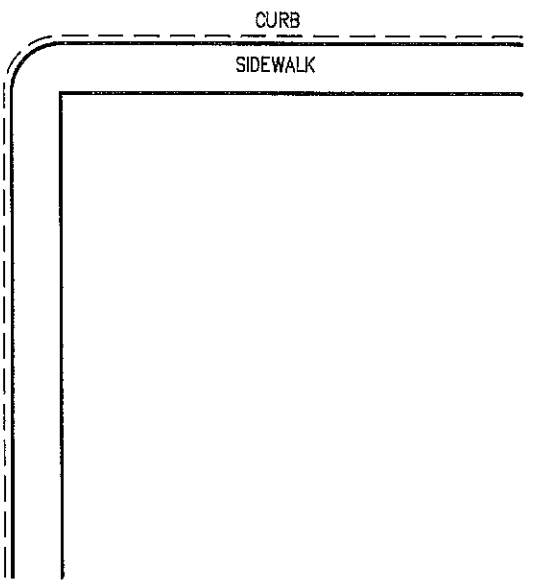
N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-22
CK:	CITY OF MIAMI, FLORIDA		Sheet 10 of 10









STANDARD CURB RADII

N.T.S. *Sept. 1954*

DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*MISC. 35-85-23*
CK:	*CITY OF MIAMI, FLORIDA*	*Sheet 1 of 1*

CUT

FILL

NOTE:

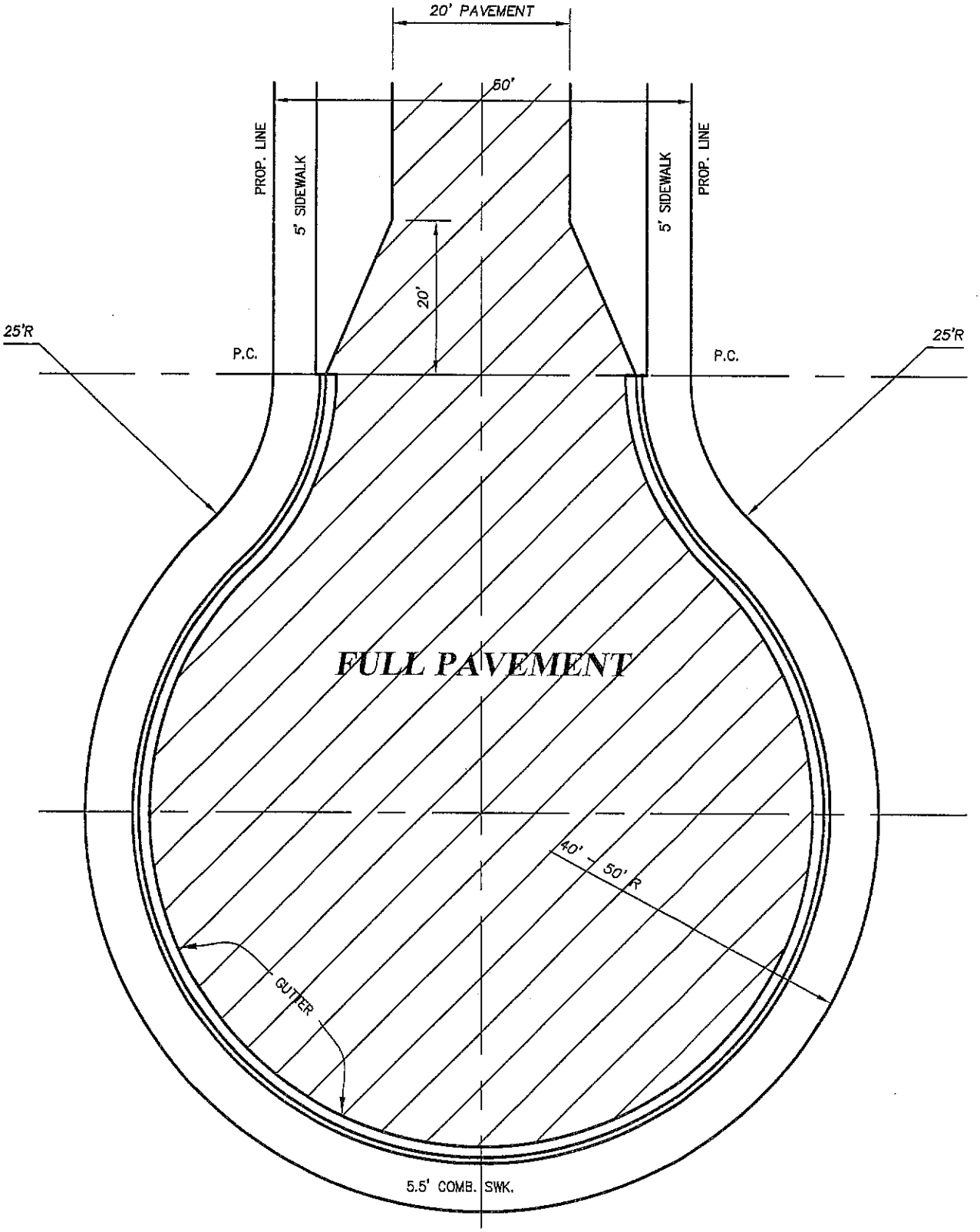
1. SUBGRADE TO BE SLOPED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. CONCRETE SIDEWALK SHALL HAVE A MINIMUM THICKNESS OF 4", EXCEPT AT DRIVEWAY ENTRANCES WHERE A THICKNESS OF 6" IS REQUIRED.
3. SIDEWALKS TO BE CONSTRUCTED WITH NATURAL UNCOLORED PORTLAND CEMENT CONCRETE TYPE I OR TYPE III NON STRUCTURAL (2500 PSI).

TYPICAL SIDEWALK SECTIONS

N.T.S.

Aug. 1955

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-24
CK:	CITY OF MIAMI, FLORIDA	Sheet 1 of 1



TYPICAL CUL-DE-SAC

40'-50' RADIUS

N.T.S. Jul. 1955

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-25
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

ZONING DISTRICT	CROSS SECTION TYPE	RIGHT OF WAY WIDTH					
		50	60	70	80	90	100
T-3	A	S	S	S	S		
	B	O					
	C	O				S	S
	D	O		O	O	O	O
	E	O					
	F						
	G						
T-4	A						
	B	S					
	C	O				O	O
	D	O		O	S	S	S
	E	O					
	F	O	S	S			
	G						
T-5	A						
	B						
	C						
	D	O		O	S	S	S
	E						
	F	S	S	S			
	G			O			
T-6	A						
	B						
	C						
	D	O		O	S	S	S
	E						
	F	S	S	S			
	G			O			

S: STANDARD STREET CROSS SECTION.
O: OPTIONAL STREET CROSS SECTION – ONLY AS AUTHORIZED OR REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.

TABLE OF TYPICAL CROSS SECTIONS

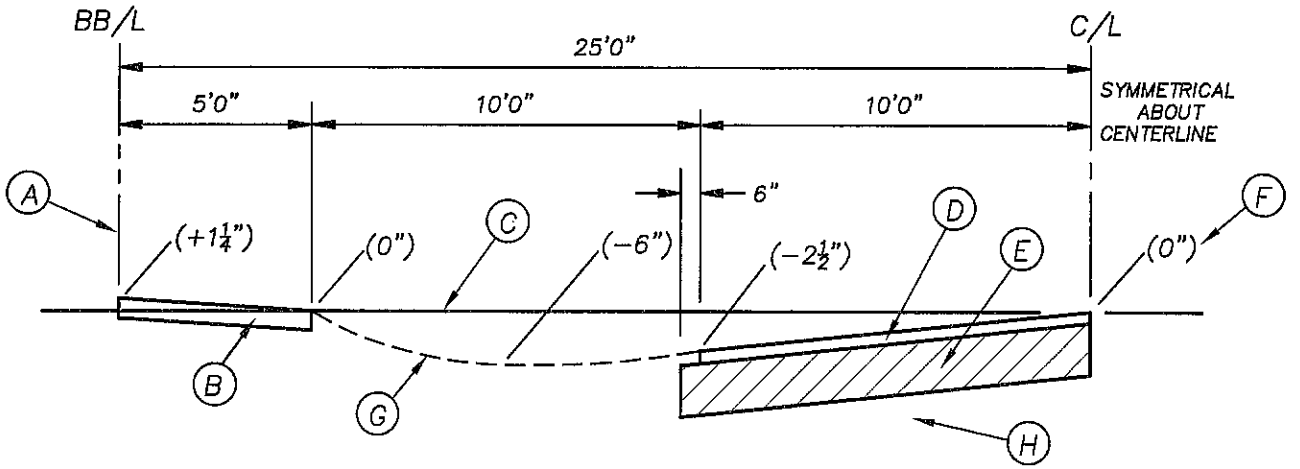
ZONING DISTRICT	CROSS SECTION TYPE	RIGHT OF WAY WIDTH					
		50	60	70	80	90	100
CS	SAME STANDARDS AS ABUTTING ZONING DISTRICTS						
CI	SAME STANDARDS AS ABUTTING ZONING DISTRICTS						
CI-HD	A						
	B						
	C						
	D	O		O	S	S	S
	E						
	F	S	S	O			
	G			S			
D	A						
	B						
	C						
	D	O		O	S	S	S
	E						
	F	S	S	O			
	G			S			

S: STANDARD STREET CROSS SECTION.
O: OPTIONAL STREET CROSS SECTION – ONLY AS AUTHORIZED OR REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.

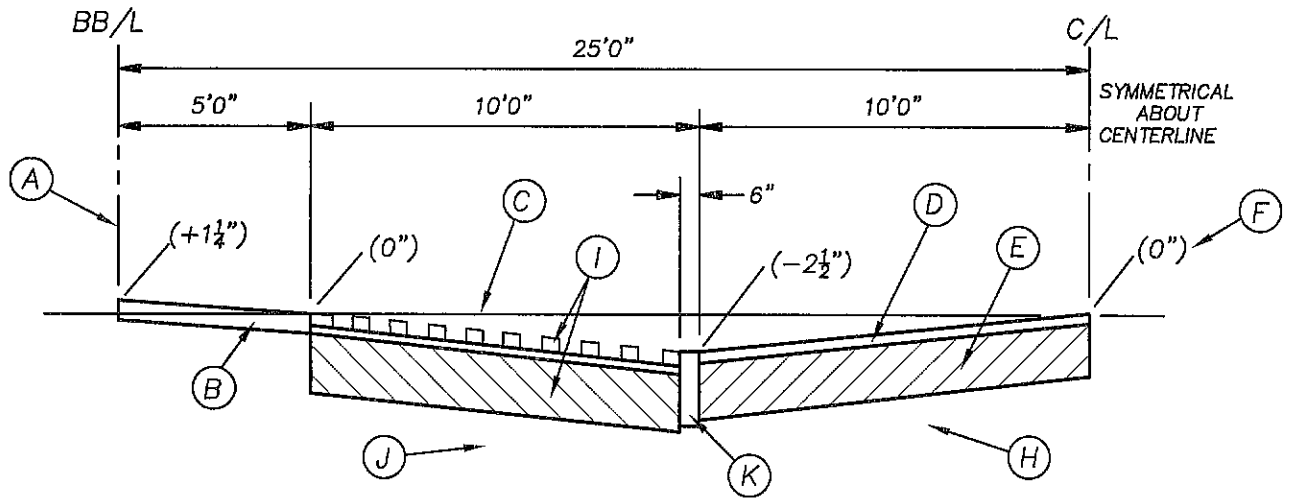
NOTES:

1. IN ZONING DISTRICTS CLASSIFIED AS O (OPEN) CATEGORY, THE PREFERRED CROSS SECTION SHOULD INCLUDE CURB AND GUTTER AND EXPANDED SIDELWALK WIDTH AND STREET TREES PLANTED AT THE BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATES OR APPROVED A.D.A. SURFACE.
2. IN ZONING DISTRICTS CLASSIFIED "URBAN", "BULB-OUTS" IN THE CURB AND GUTTER ALIGNMENT TO FACILITATE EXPANDED SIDEWALK ARE PREFERRED AT STREET INTERSECTIONS.

TABLE OF TYPICAL CROSS SECTIONS



50-A



50-B

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" THICK; SEE NOTE 5)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES–SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (I) SWALE BLOCK SYSTEM (SEE NOTE 2)
- (J) FIRM UNYIELDING SUBGRADE
- (K) 6"X12" CONCRETE HEADER

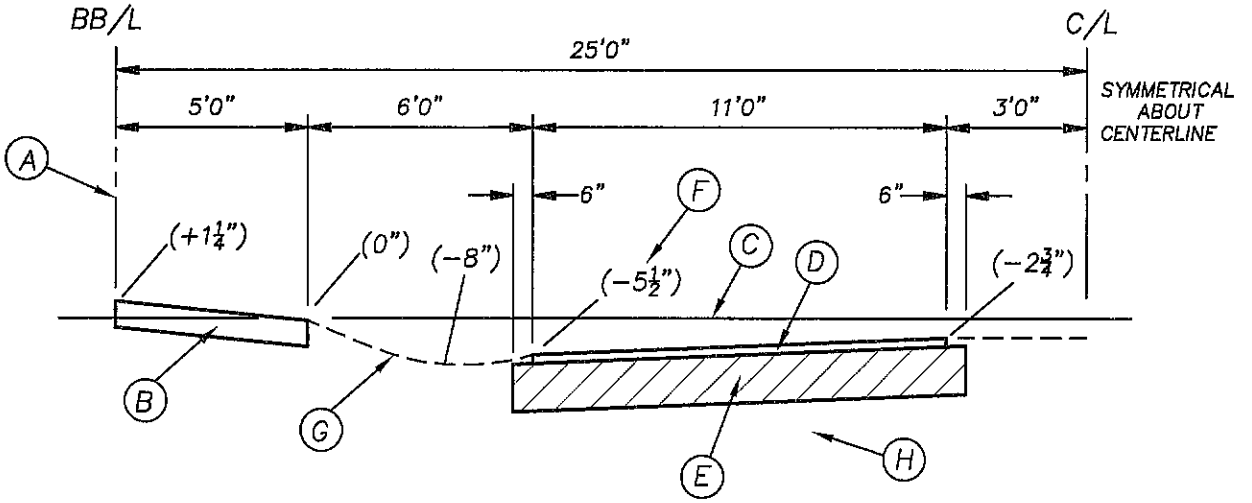
NOTES:

1. SEE MISC. 35–86–45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. SWALE BLOCK SYSTEM TO BE INTERRUPTED BY INDIVIDUAL 5' WIDE PLANTERS SPACED TO CONFORM TO PARKING STALLS (2 MAX.) AND VISIBILITY TRIANGLES.
3. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
4. STREET CROWN BASED ON STRAIGHT SLOPES.
5. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

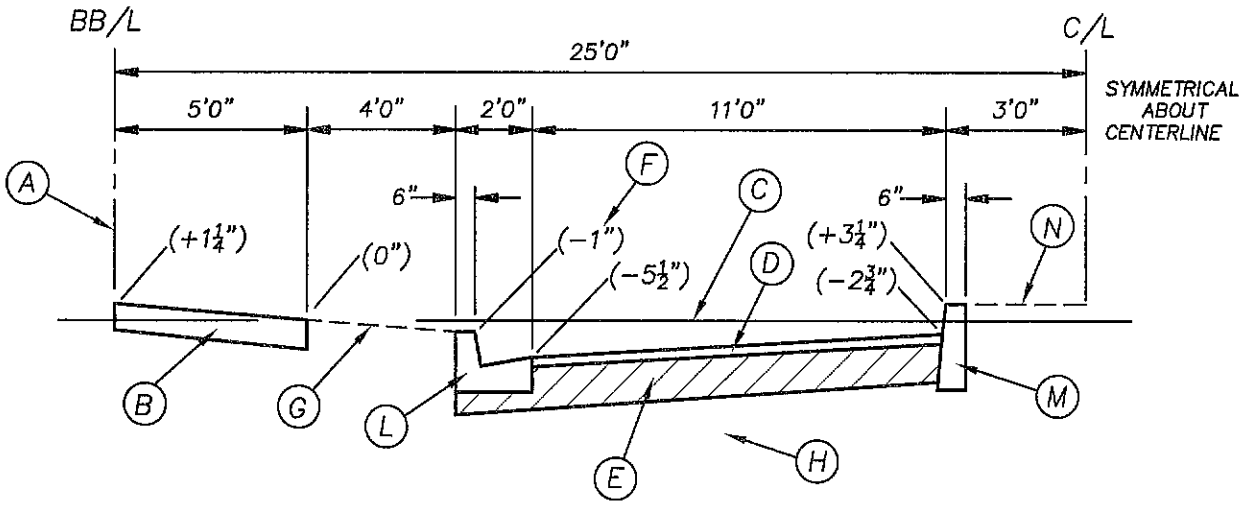
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35–85–27
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 5



50-C



50-D

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (50-C-1" THICK; 50-D-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 4)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

NOTES:

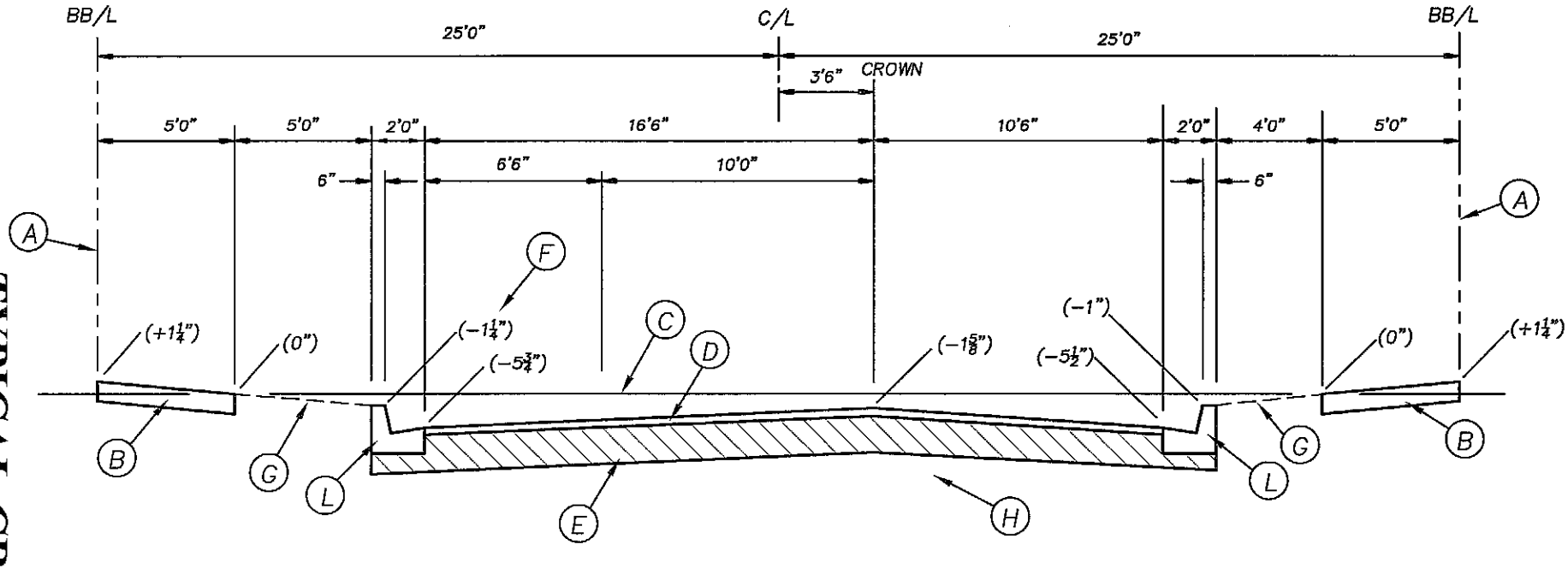
1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-27
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 5

TYPICAL CROSS SECTIONS



50-E

LEGEND:

(A) BASE BUILDING LINE (RIGHT OF WAY LINE)
(B) CONCRETE SIDEWALK
(C) PROFILE GRADE LINE
(D) ASPHALT CONCRETE SURFACE COURSE (1" THICK; SEE NOTE 4)
(E) 8" THICK LIMEROCK BASE COURSE
(F) VERTICAL OFFSET FROM PROFILE GRADE LINE
(G) SWALE (SOLID SOD AND STREET TREES–SEE NOTE 1)
(H) STABILIZED SUBGRADE
(L) 6" CONCRETE CURB AND GUTTER

NOTES:

1. SEE PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS,AND SPACING.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

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N.T.S.

DR:MA
CK:LJH

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CITY OF MIAMI, FLORIDA

MISC. 35-85-27

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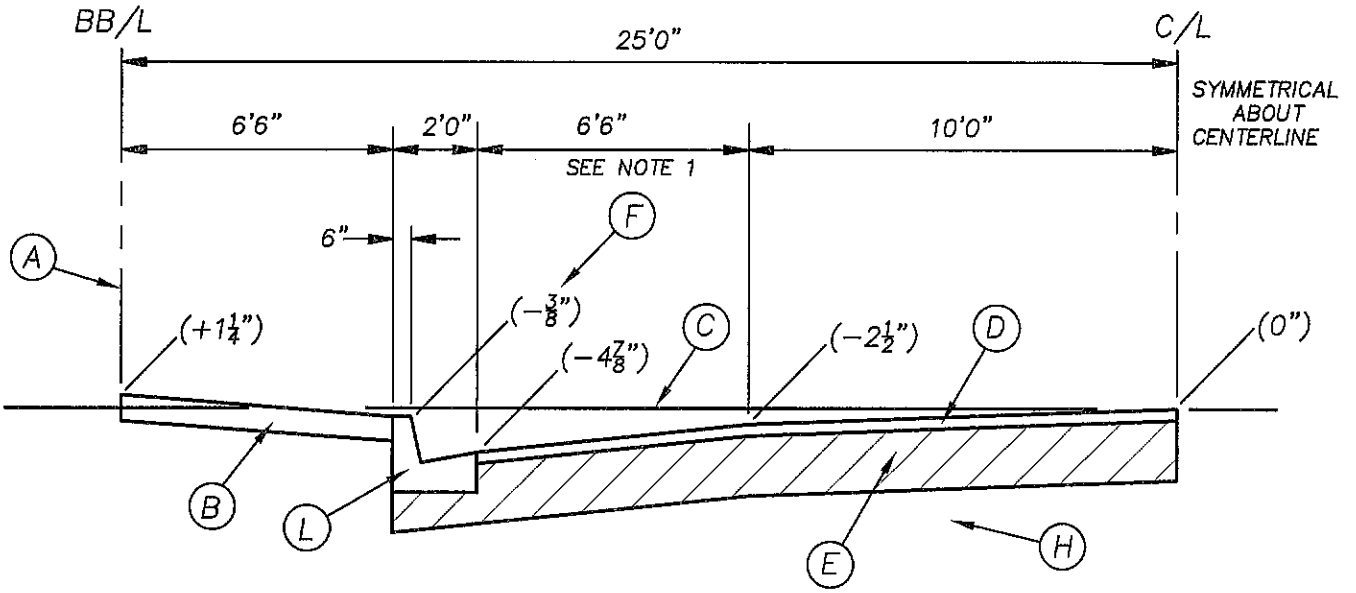


50-F

LEGEND:

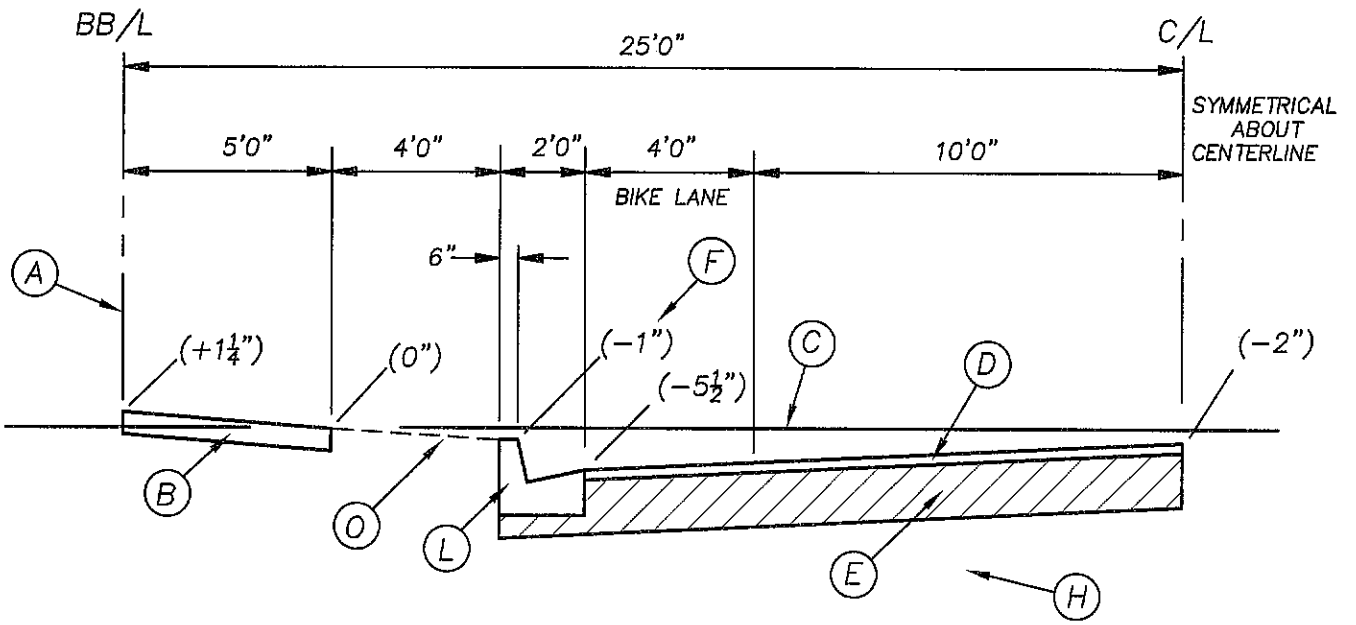
- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" BINDER COURSE AND 1" WEARING SURFACE)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER

NOTES:

1. PARKING LANE SHALL BE INTERRUPTED BY INDIVIDUAL PLANTERS SPACED TO CONFORM TO PARKING STALLS AND VISIBILITY TRIANGLES. SEE PUBLIC WORKS MISC. 35-85-111 FOR PLANTER ISLAND AND BULLETIN NO. 33 FOR STREET TREE SPECS. AND SPACING.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.

TYPICAL CROSS SECTIONS

OCTOBER, 2010	N.T.S.	
DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-27
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 4 of 5



50 - BICYCLE CORRIDOR

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" BINDER COURSE AND 1" WEARING SURFACE)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (O) SWALE (SEE NOTE NO. 4)

NOTES:

1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI BICYCLE MASTER PLAN, AS AMENDED.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. SWALE OPTION 1: SOLID SOD AND STREET TREES. OPTION 2: CONTINUOUS CONCRETE SIDEWALK WITH INDIVIDUAL TREE WELLS AND APPROVED STREET TREES AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE. SEE PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS. AND SPACING.

TYPICAL CROSS SECTIONS

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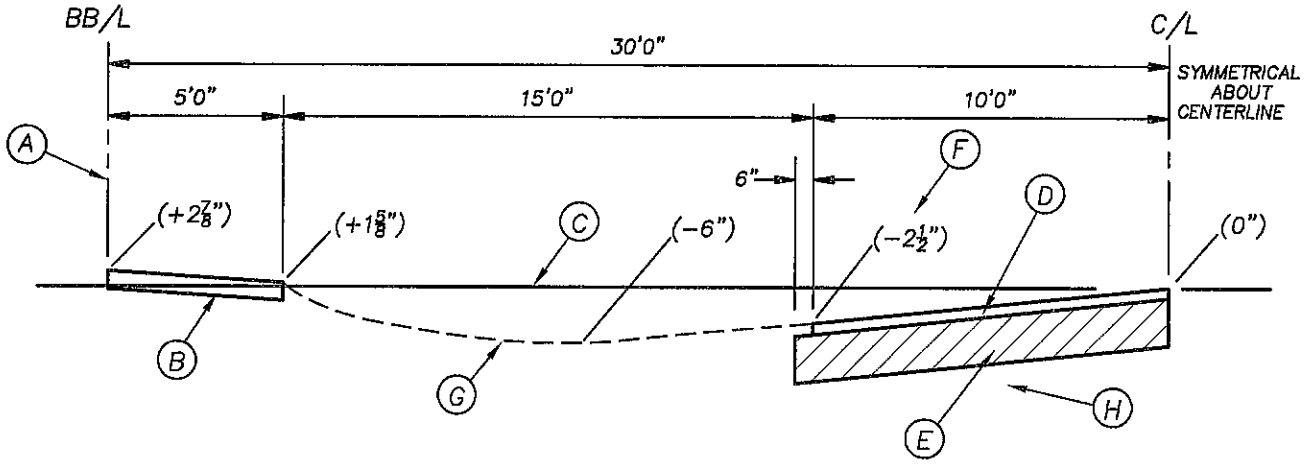
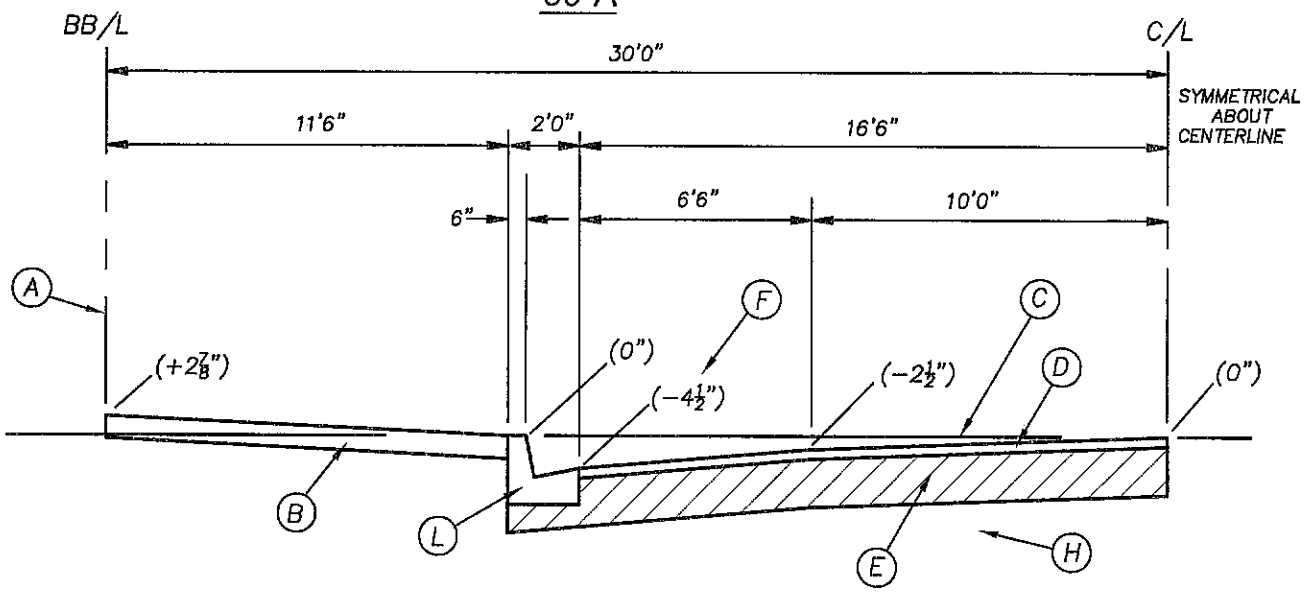


60-A



60-F

LEGEND:

(A) BASE BUILDING LINE (RIGHT OF WAY LINE)
(B) CONCRETE SIDEWALK
(C) PROFILE GRADE LINE
(D) ASPHALT CONCRETE SURFACE COURSE (60-A-1" THICK; 60-F-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 6)
(E) 8" THICK LIMEROCK BASE COURSE
(F) VERTICAL OFFSET FROM PROFILE GRADE LINE
(G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
(H) STABILIZED SUBGRADE
(L) 6" CONCRETE CURB AND GUTTER

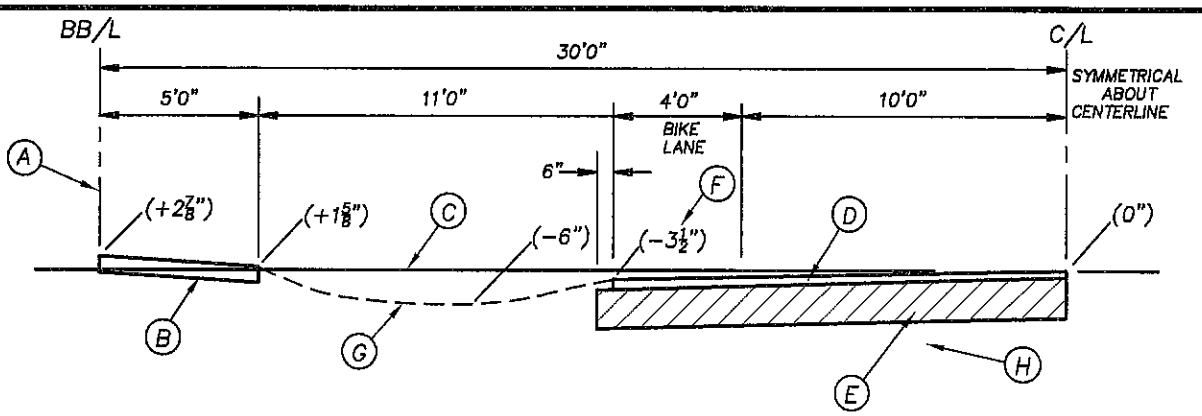
NOTES:

1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTION 60-F, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTION 60-F, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
6. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

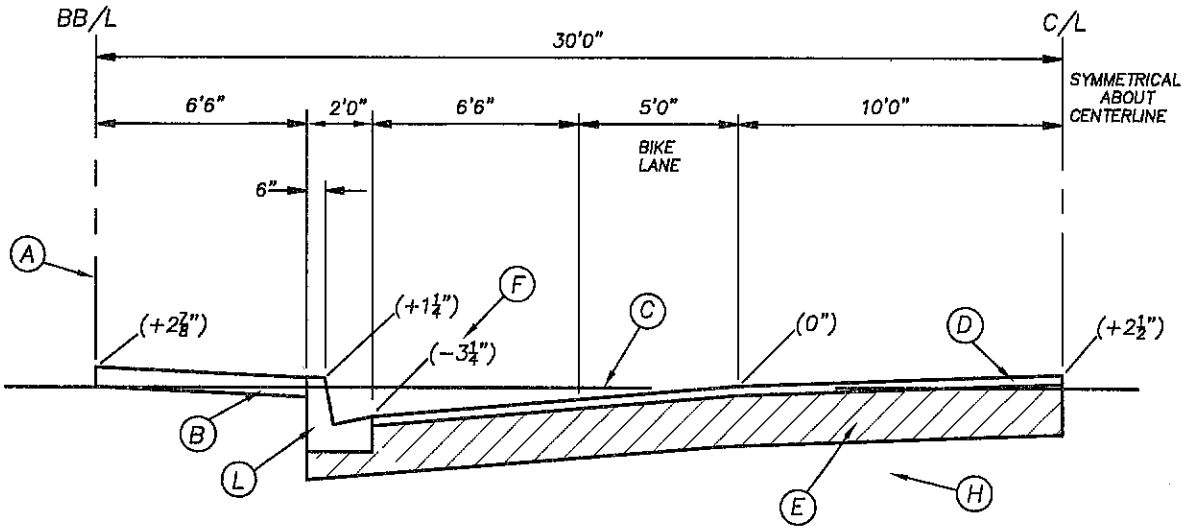
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-28
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 2



60-BICYCLE CORRIDOR
(WITHOUT CURBS)



60-BICYCLE CORRIDOR
(WITH CURBS)

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (WITHOUT CURBS–1" THICK; WITH CURBS–1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 7)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES–SEE NOTE 2)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER

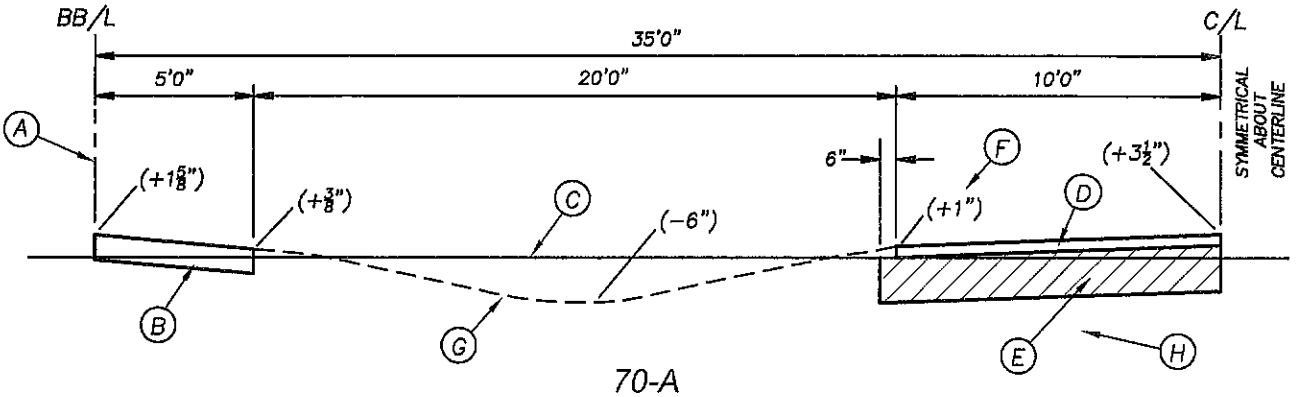
NOTES:

1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI MASTER PLAN, AS AMENDED.
2. SEE MISC. 35–86–45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
3. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
4. STREET CROWN BASED ON STRAIGHT SLOPES.
5. FOR SECTION WITH CURBS, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
6. FOR SECTION WITH CURBS, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
7. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

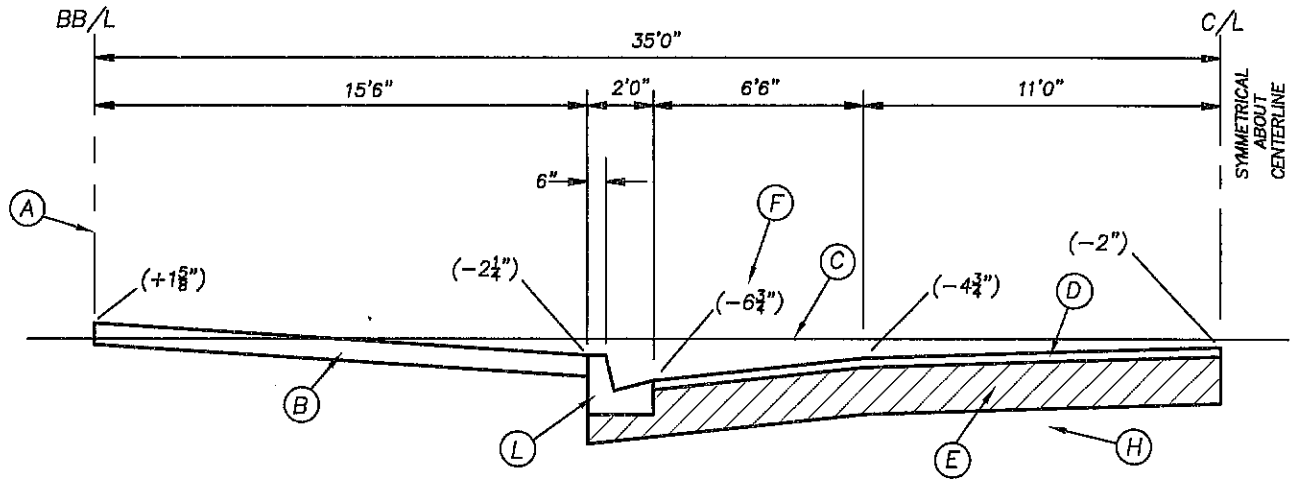
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35–85–28
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 2



70-A



70-F

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (70-A-1" THICK; 70-F-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 6)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER

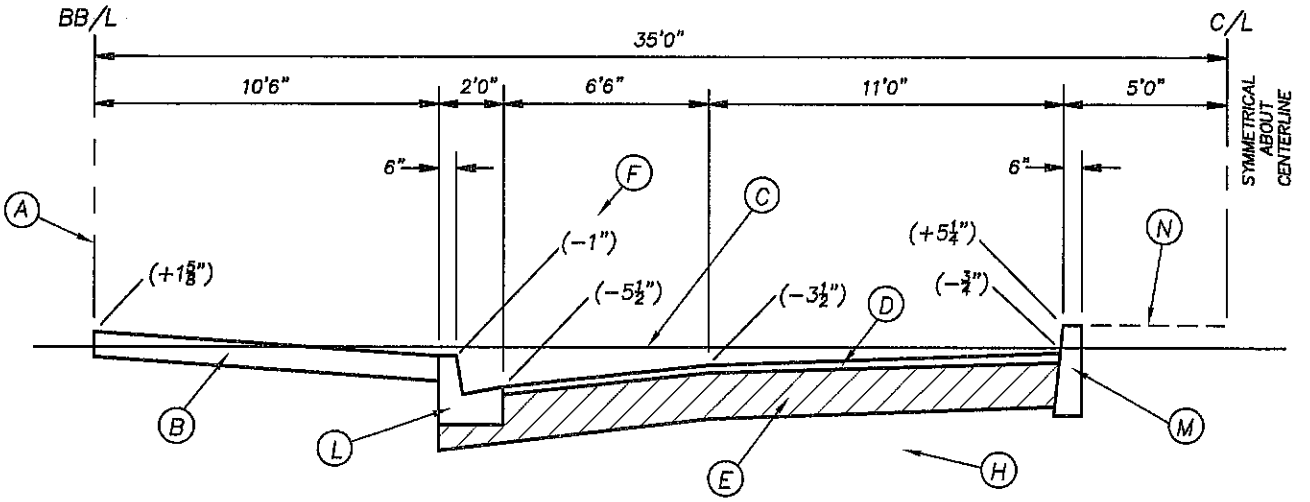
NOTES:

1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTION 70-F, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTION 70-F, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
6. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

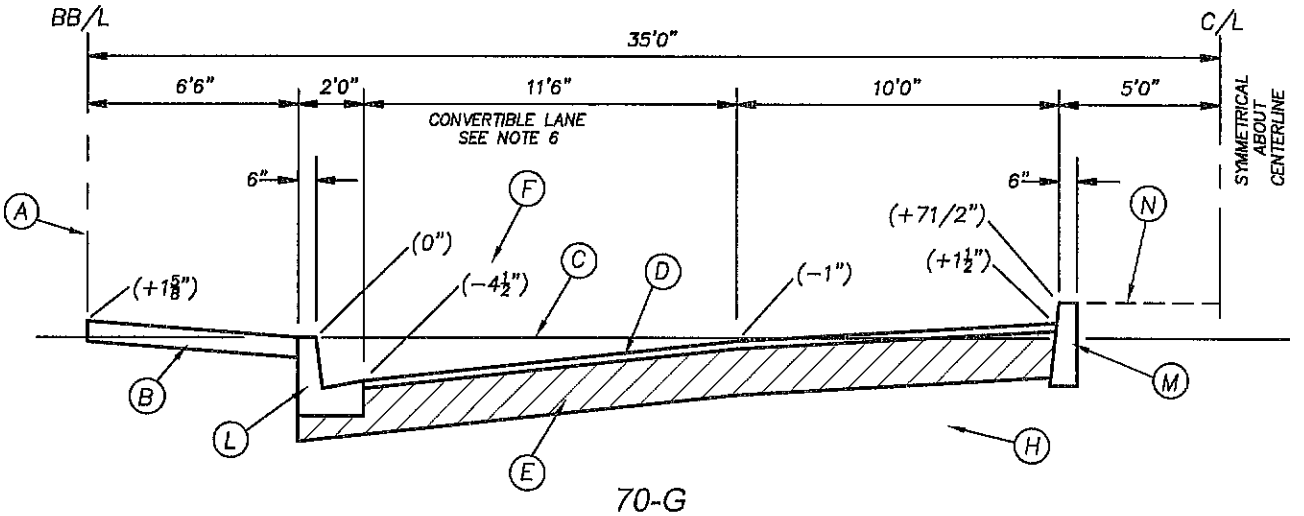
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-29
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 4



70-D



70-G

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" BINDER COURSE AND 1" WEARING SURFACE)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

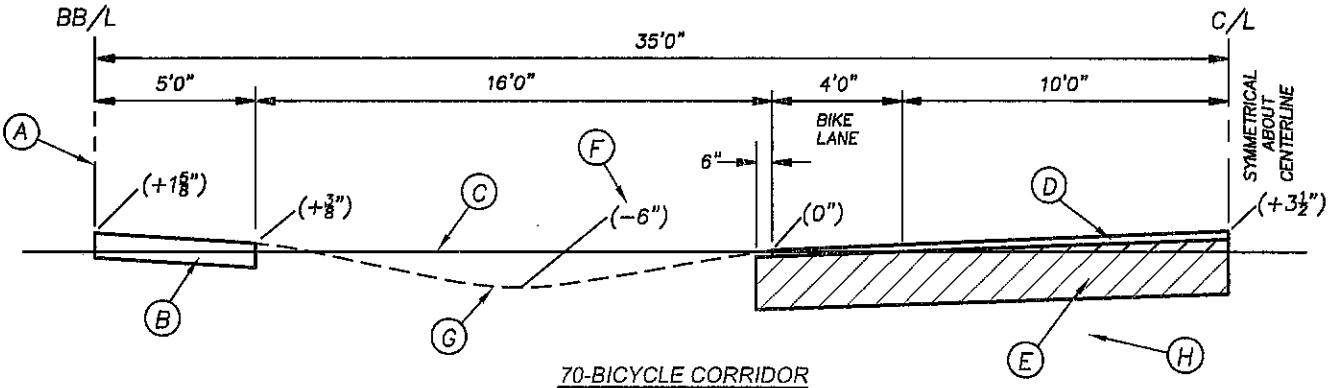
NOTES:

1. SEE PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS. AND SPACING.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTIONS 70-D AND 70-G, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTIONS 70-D AND 70-G, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE GRATE OR APPROVED A.D.A. SURFACE.
6. THE PRIMARY STATUS OF THE CONVERTIBLE LANE IS A TRAVEL LANE. THE DIRECTOR OF PUBLIC WORKS MAY DESIGNATE THE CONVERTIBLE LANE AS A RESTRICTED PARKING LANE.
7. MEDIAN SHALL TERMINATE TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.

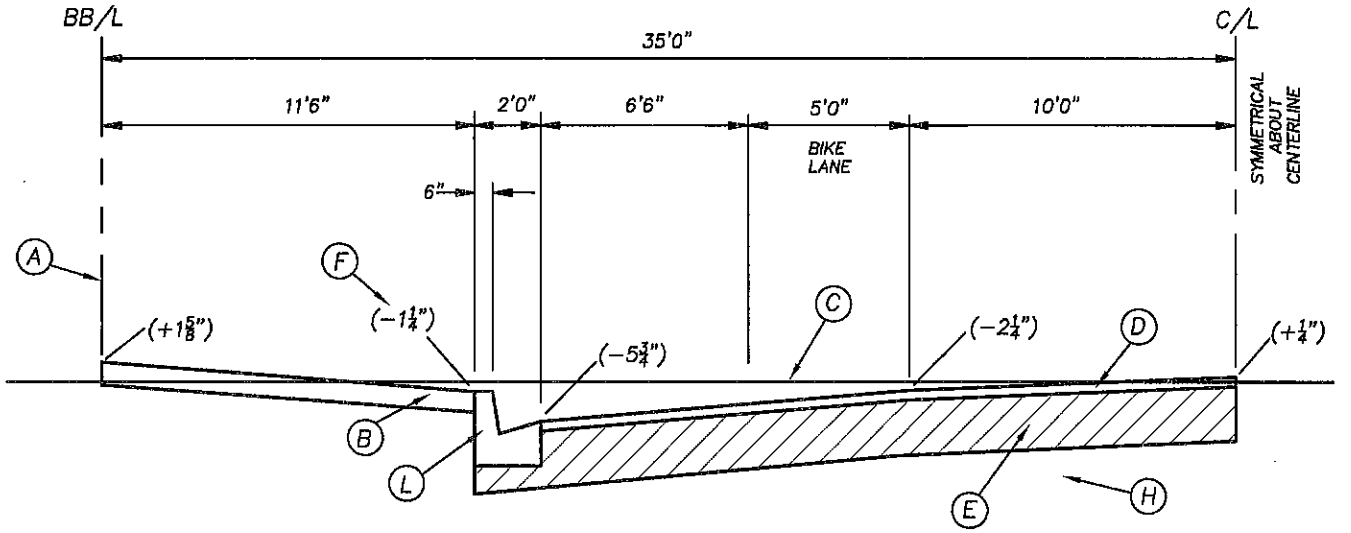
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-29
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 4



70-BICYCLE CORRIDOR
(WITHOUT CURBS)



70-BICYCLE CORRIDOR
(WITH CURBS)

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (WITHOUT CURBS–1" THICK; WITH CURB 1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 7)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES–SEE NOTE 2)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER

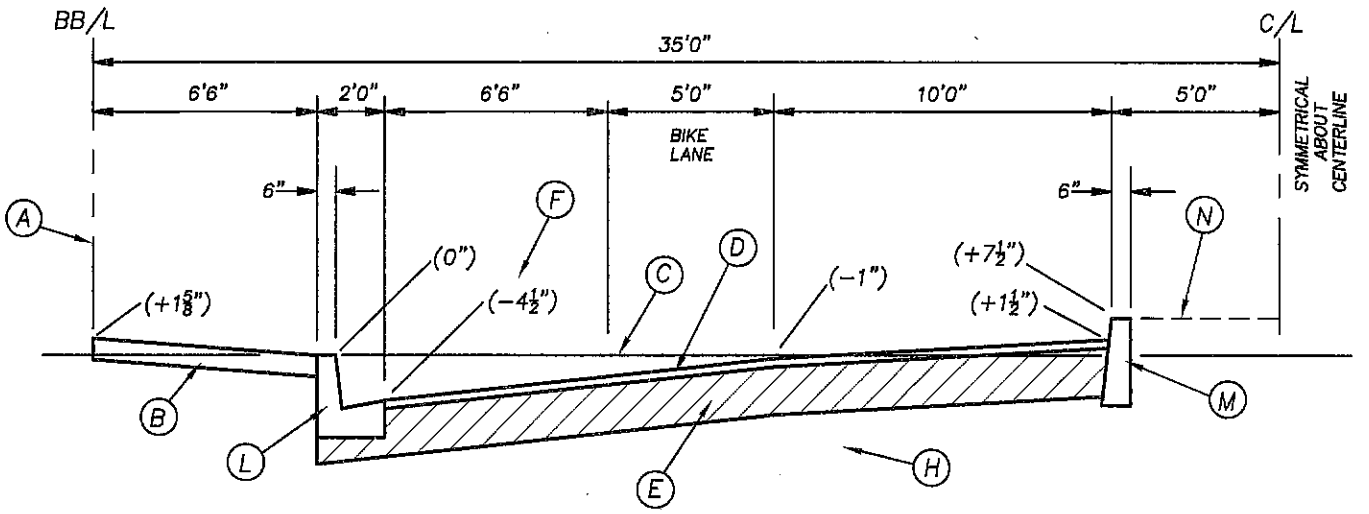
NOTES:

1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI MASTER PLAN, AS AMENDED.
2. SEE MISC. 35–86–45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
3. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
4. STREET CROWN BASED ON STRAIGHT SLOPES.
5. FOR SECTION WITH CURBS, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
6. FOR SECTION WITH CURBS, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
7. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35–85–29
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 3 of 4



70-BICYCLE CORRIDOR
(WITH CURBS AND MEDIAN)

LEGEND:

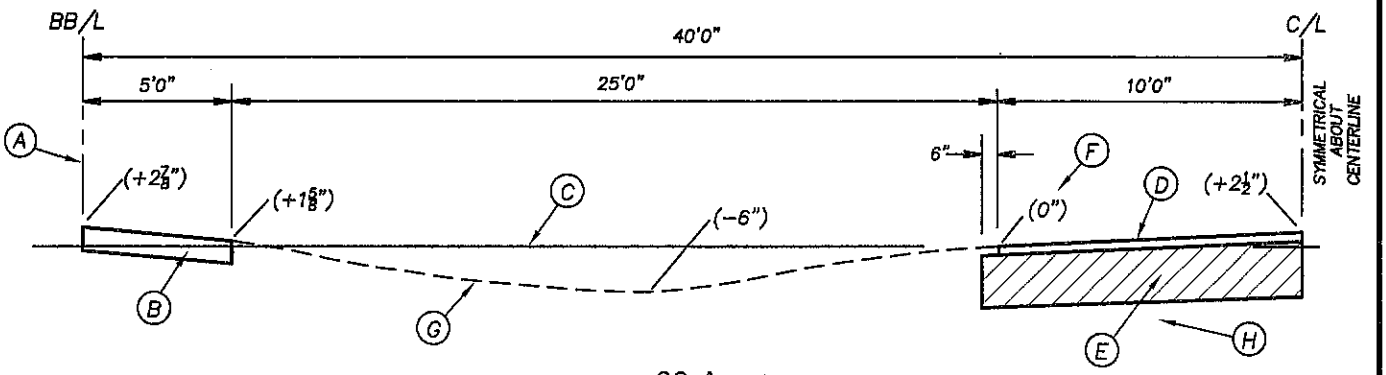
- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" BINDER COURSE AND 1" WEARING SURFACE)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

NOTES:

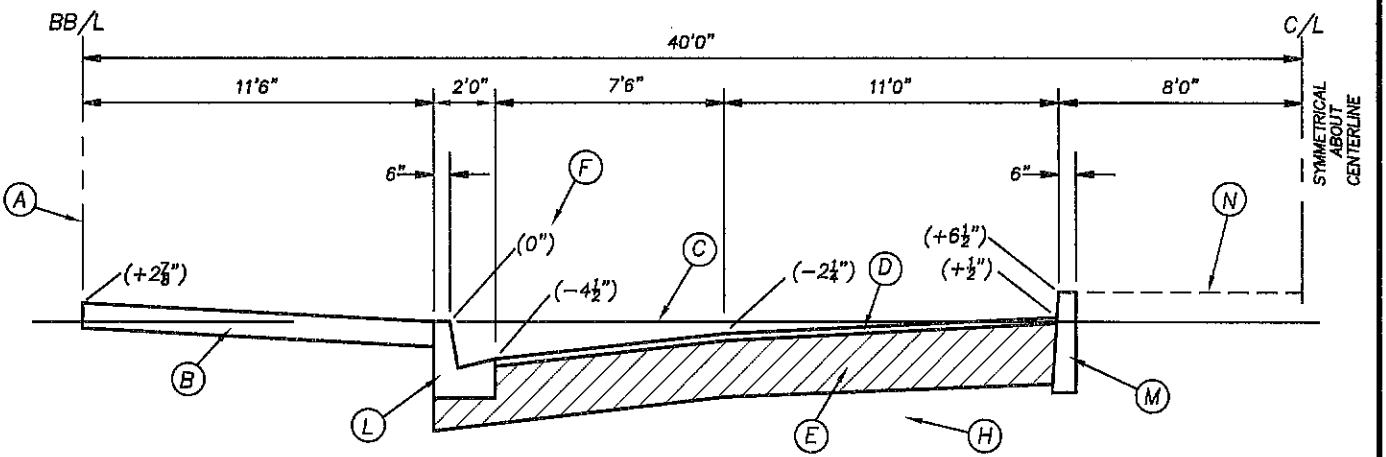
1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI MASTER PLAN, AS AMENDED.
2. SEE PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING.
3. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
4. STREET CROWN BASED ON STRAIGHT SLOPES.
5. AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
6. INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
7. MEDIAN SHALL TERMINATE TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.

TYPICAL CROSS SECTIONS

OCTOBER, 2010	N.T.S.	
DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-29
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 4 of 4



80-A



80-D

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (80-A-1" THICK; 80-D-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 7)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

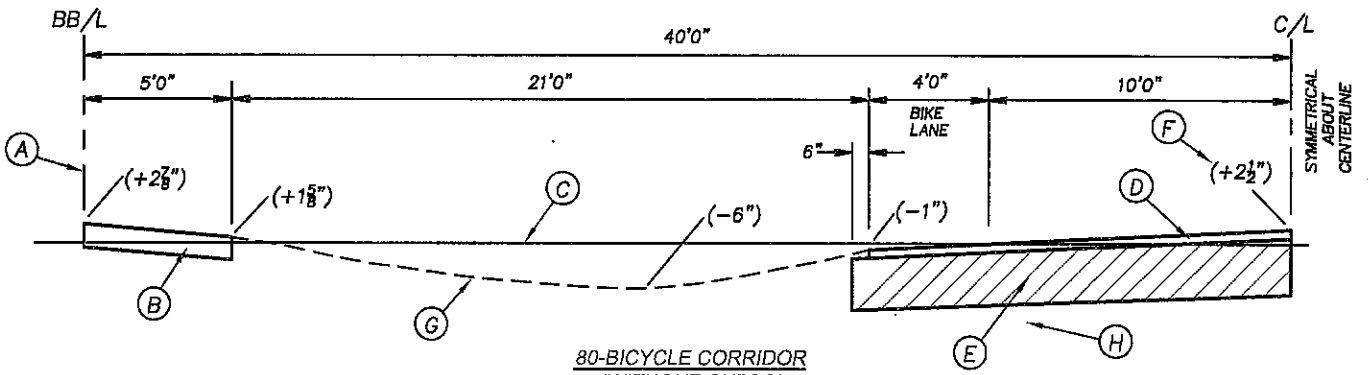
NOTES:

1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTION 80-D, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTION 80-D, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE TREE GRATES OR APPROVED A.D.A. SURFACE.
6. MEDIAN SHALL TAPER AND NARROW TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.
7. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

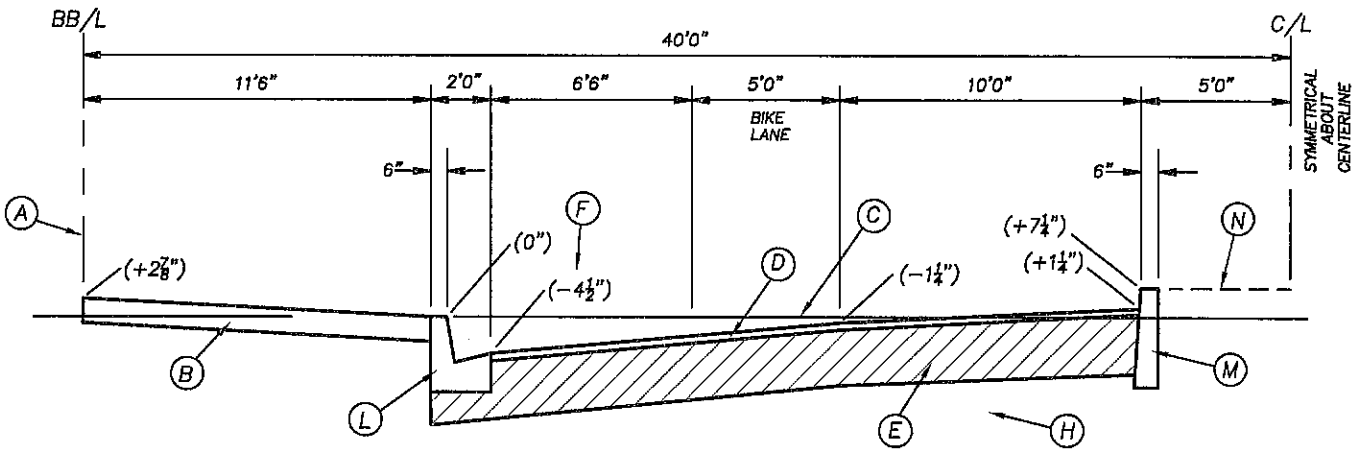
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-30
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 2



80-BICYCLE CORRIDOR
(WITHOUT CURBS)



80-BICYCLE CORRIDOR
(WITH CURBS AND MEDIAN)

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (WITHOUT CURBS–1" THICK; WITH CURB 1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 8)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES–SEE NOTE 2)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

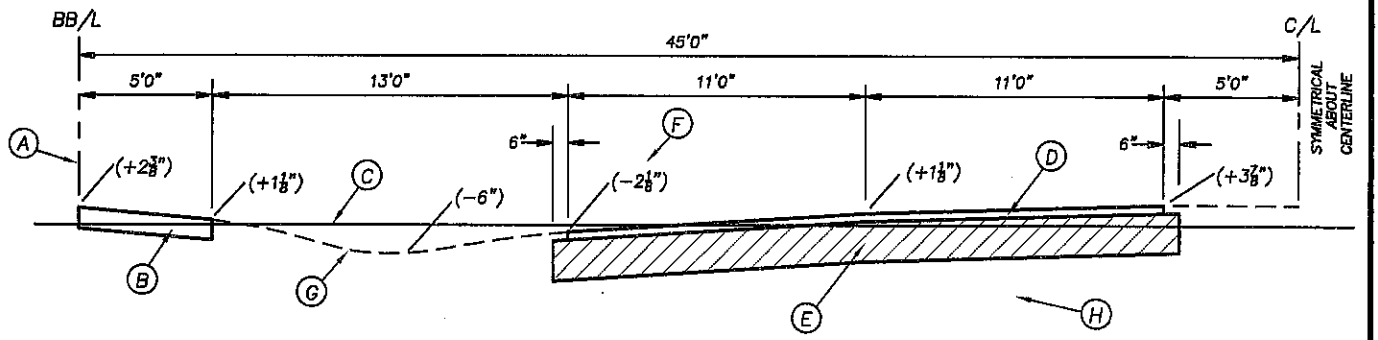
NOTES:

1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI MASTER PLAN, AS AMENDED.
2. SEE MISC. 35–86–45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
3. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35–85–109 (SHEET 2 OF 2).
4. STREET CROWN BASED ON STRAIGHT SLOPES.
5. FOR SECTION WITH CURBS, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
6. FOR SECTION WITH CURBS, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
7. MEDIAN SHALL TERMINATE TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.
8. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

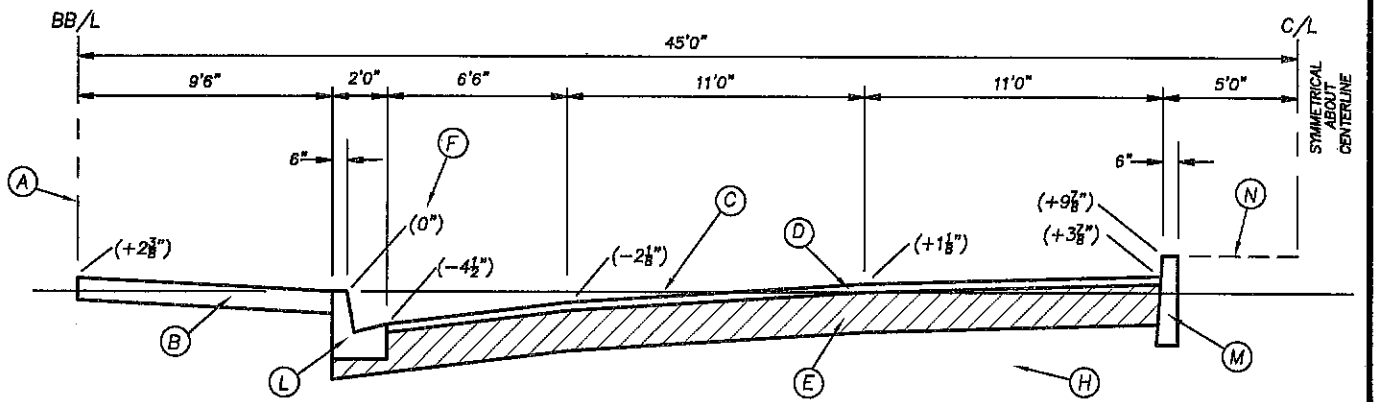
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35–85–30
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 2



90-C



90-D

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (90-C-1" THICK; 90-D-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 7)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)

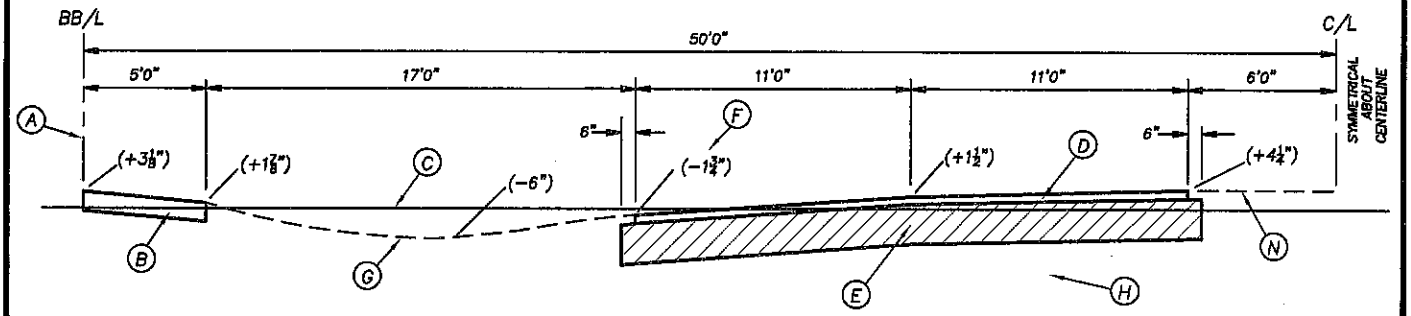
NOTES:

1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTION 90-D, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTION 90-D, INDIVIDUAL TREE WELLS WITH APPROVED STREET TREES REQUIRED AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE.
6. MEDIAN SHALL TERMINATE TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.
7. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

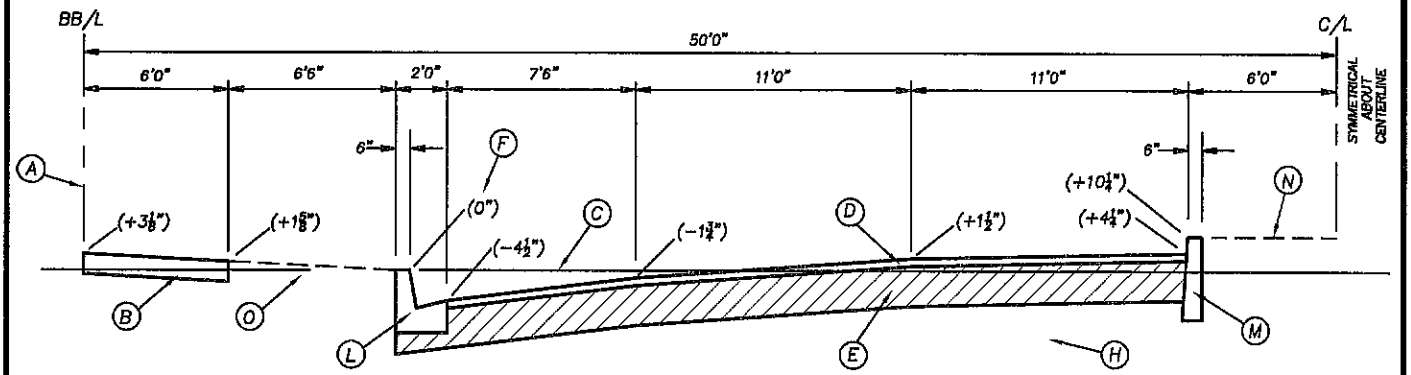
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-31
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 1



100-C



100-D

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (100-C-1" THICK; 100-D-1" BINDER COURSE AND 1" WEARING SURFACE; SEE NOTE 7)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (G) SWALE (SOLID SOD AND STREET TREES-SEE NOTE 1)
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)
- (O) SWALE (SEE NOTE NO. 5)

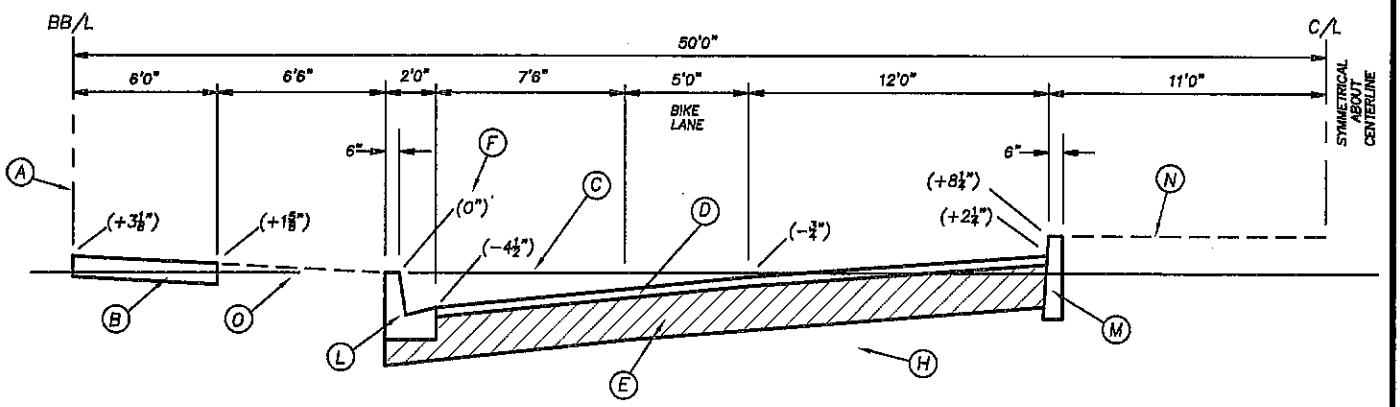
NOTES:

1. SEE MISC. 35-86-45 FOR SWALE TRENCH, WHERE REQUIRED, AND PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING. PRIVATE DRIVEWAY APPROACHES SHALL BE GRADED TO MATCH SWALE SLOPES.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. FOR SECTION 100-D, AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. FOR SECTION 100-D, OPTION 1: SOLID SOD AND STREET TREES. OPTION 2: CONTINUOUS CONCRETE SIDEWALK WITH INDIVIDUAL TREE WELLS AND APPROVED STREET TREES AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE. SEE PUBLIC WORKS BULLETIN NO. 33 FOR STREET TREE SPECS AND SPACING.
6. MEDIAN SHALL TERMINATE TO ACCOMMODATE LEFT TURN LANES AT APPROACHES TO STREET INTERSECTIONS.
7. ASPHALTIC CONCRETE THICKNESS ON ALL ROADWAYS CLASSIFIED AS "COLLECTOR" AND "ARTERIAL" SHALL BE 1" BINDER COURSE AND 1" WEARING SURFACE.

TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-32
CK.: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 2



100-BICYCLE CORRIDOR
(WITH CURBS AND MEDIAN)

LEGEND:

- (A) BASE BUILDING LINE (RIGHT OF WAY LINE)
- (B) CONCRETE SIDEWALK
- (C) PROFILE GRADE LINE
- (D) ASPHALT CONCRETE SURFACE COURSE (1" BINDER COURSE AND 1" WEARING SURFACE)
- (E) 8" THICK LIMEROCK BASE COURSE
- (F) VERTICAL OFFSET FROM PROFILE GRADE LINE
- (H) STABILIZED SUBGRADE
- (L) 6" CONCRETE CURB AND GUTTER
- (M) 6" CONCRETE CURB
- (N) MEDIAN (SOLID SOD AND APPROVED PALM TREES)
- (O) SWALE (SEE NOTE NO. 5)

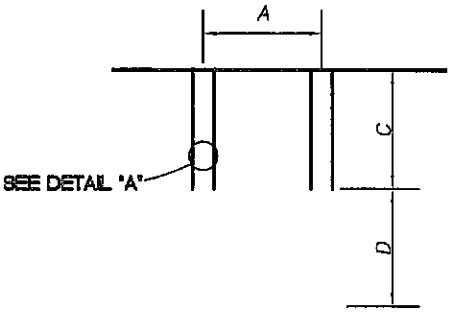
NOTES:

1. THE BICYCLE CORRIDOR CROSS SECTION SHALL BE USED FOR ROADWAYS DESIGNATED AS "BICYCLE ROUTE" AND "BICYCLE LANE" IN THE CITY OF MIAMI MASTER PLAN, AS AMENDED.
2. FOR REQUIRED VISIBILITY TRIANGLES, SEE ZON. ORD. ART. 3, SEC. 3.8.4.1 AND ART.4, TBL 8. ALSO SEE MISC. 35-85-109 (SHEET 2 OF 2).
3. STREET CROWN BASED ON STRAIGHT SLOPES.
4. AN ADDITIONAL 10' WIDE SIDEWALK EASEMENT MAY BE REQUIRED. SEE ZONING ORDINANCE.
5. OPTION 1: SOLID SOD AND STREET TREES. OPTION 2: CONTINUOUS CONCRETE SIDEWALK WITH INDIVIDUAL TREE WELLS AND APPROVED STREET TREES AT BACK OF CURB AND GUTTER WITH PEDESTRIAN STYLE TREE GRATE OR APPROVED A.D.A. SURFACE. SEE PUBLIC WORKS BULLETIN NO.33 FOR STREET TREE SPECS, AND SPACING.
6. MEDIAN SHALL TAPER AND NARROW TO ACCOMMODATE LEFT LANES AT APPROACHES TO STREET INTERSECTIONS.

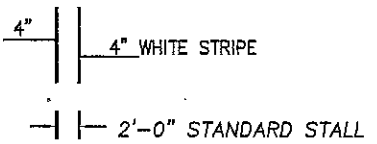
TYPICAL CROSS SECTIONS

OCTOBER, 2010 — N.T.S.

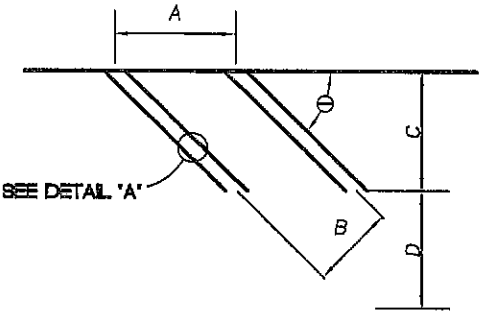
DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-32
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 2



PARALLEL PARKING



DETAIL 'A'



ANGLE PARKING

D1= TWO WAY TRAFFIC, DOUBLE LOADED (2 ROWS OF STALLS)
D2= ONE WAY TRAFFIC, DOUBLE LOADED (2 ROWS OF STALLS)
D3= ONE WAY TRAFFIC, SINGLE LOADED (1 ROW OF STALLS)

VEHICLE STALL DIMENSIONS

18' STALL LENGTH

A	B	C	D1	D2	D3	θ
23'-0"	——	9'-0"	20'-0"	10'-0"	10'-0"	PARALLEL
12'-0"	8'-6"	18'-9"	18'-6"	9'-6"	10'-9"	45°
11'-1"	8'-6"	19'-3"	18'-6"	9'-6"	10'-9"	50°
10'-5"	8'-6"	19'-7"	18'-9"	10'-3"	11'-5"	55°
9'-10"	8'-6"	19'-10"	19'-4"	11'-10"	12'-8"	60°
9'-5	8'-6"	20'-0"	19'-8"	14'-1"	15'-1"	65°
9'-1"	8'-6"	19'-11"	19'-9"	16'-3"	17'-1"	70°
8'-10"	8'-6"	19'-8"	20'-3"	18'-3"	18'-10"	75°
8'-8"	8'-6"	19'-3"	20'-6"	20'-0"	20'-3"	80°
8'-6"	8'-6"	18'-9"	21'-7"	21'-7"	21'-9"	85°
8'-6"	8'-6"	18'-0"	23'-0"	23'-0"	23'-0"	90°

NOTES:
1. *WHERE A STALL ABUTS A PHYSICAL OBSTRUCTION,THE STALL WIDTH SHALL BE INCREASED BY 1'.* WHERE THERE IS AN OBSTRUCTION ON BOTH SIDES, THE STALL WIDTH SHALL BE INCREASED BY 2'. DIMENSION SHOWN ARE MIN. FOR UNOBSTRUCTED PARKING AND MANEUVERING. WHERE PHYSICAL OBSTRUCTIONS EXIST, ADDITIONAL WIDTH MUST BE PROVIDED FOR PARKING AND TURNING MOVEMENTS.
2. A DOUBLE PAINTED LINE IS STD. ON ALL PARKING LAYOUTS. MIN. WIDTH OF PAINTED LINES IS 4", COLOR WHITE.
3. THIS STANDARD TO SUPERSEDE ALL OTHER PARKING STANDARDS.

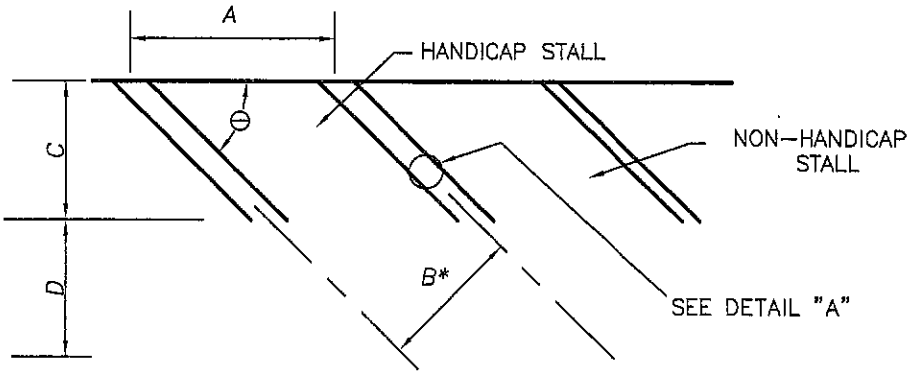
MINIMUM PARKING STANDARDS

OFF STREET PARKING

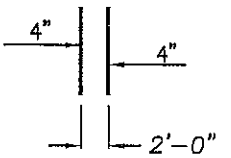
N.T.S.

Sept.. 1990

DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*R-1*	*MISC. 35-85-33*
CK:	*CITY OF MIAMI, FLORIDA*		*Sheet 1 of 4*



ANGLE PARKING



DETAIL "A"

D1= TWO WAY TRAFFIC, DOUBLE LOADED (2 ROWS OF STALLS)
D2= ONE WAY TRAFFIC, DOUBLE LOADED (2 ROWS OF STALLS)
D3= ONE WAY TRAFFIC, SINGLE LOADED (1 ROW OF STALLS)

* INCLUDES A 5 FOOT WIDE ACCESS AISLE

VEHICLE	STALL		DIMENSIONS			
HANDICAP	18' STALL		LENGTH			
Θ	A	B*	C	D1	D2	D3
45°	24.04'	17'–0"	18'–9"	18'–6"	9'–6"	10'–9"
50°	22.19'	17'–0"	19'–3"	18'–6"	9'–6"	10'–9"
55°	20.75'	17'–0"	19'–7"	18'–9"	10'–3"	11'–5"
60°	19.63'	17'–0"	19'–10"	19'–4"	11'–10"	12'–8"
65°	18.76'	17'–0"	20'–0"	19'–8"	14'–1"	15'–1"
70°	18.09'	17'–0"	19'–11"	19'–9"	16'–3"	17'–1"
75°	17.60'	17'–0"	19'–8"	20'–3"	18'–3"	18'–10"
80°	17.26'	17'–0"	19'–3"	20'–6"	20'–0"	20'–3"
85°	17.06'	17'–0"	18'–9"	21'–7"	21'–7"	21'–9"
90°	17.0'	17'–0"	18'–0"	23'–0"	23'–0"	23'–0"

NOTES:
1. *DIMENSIONS SHOWN ARE MIN. FOR UNOBSTRUCTED PARKING AND MANEUVERING.* WHERE PHYSICAL OBSTRUCTIONS EXIST, ADDITIONAL WIDTH MUST BE PROVIDED FOR PARKING AND TURNING MOVEMENTS.
2. A DOUBLE PAINTED LINE (SHOWN ABOVE) IS STD. ON ALL HANDICAP PARKING STALLS. MIN. WIDTH OF PAINTED LINES IS 4", COLOR BLUE.
3. THIS STANDARD TO SUPERSEDE ALL OTHER PARKING STANDARDS.
4. ADJACENT HANDICAP PARKING STALLS MAY SHARE A SINGLE 5 FOOT WIDE WIDE ACCESS AISLE.

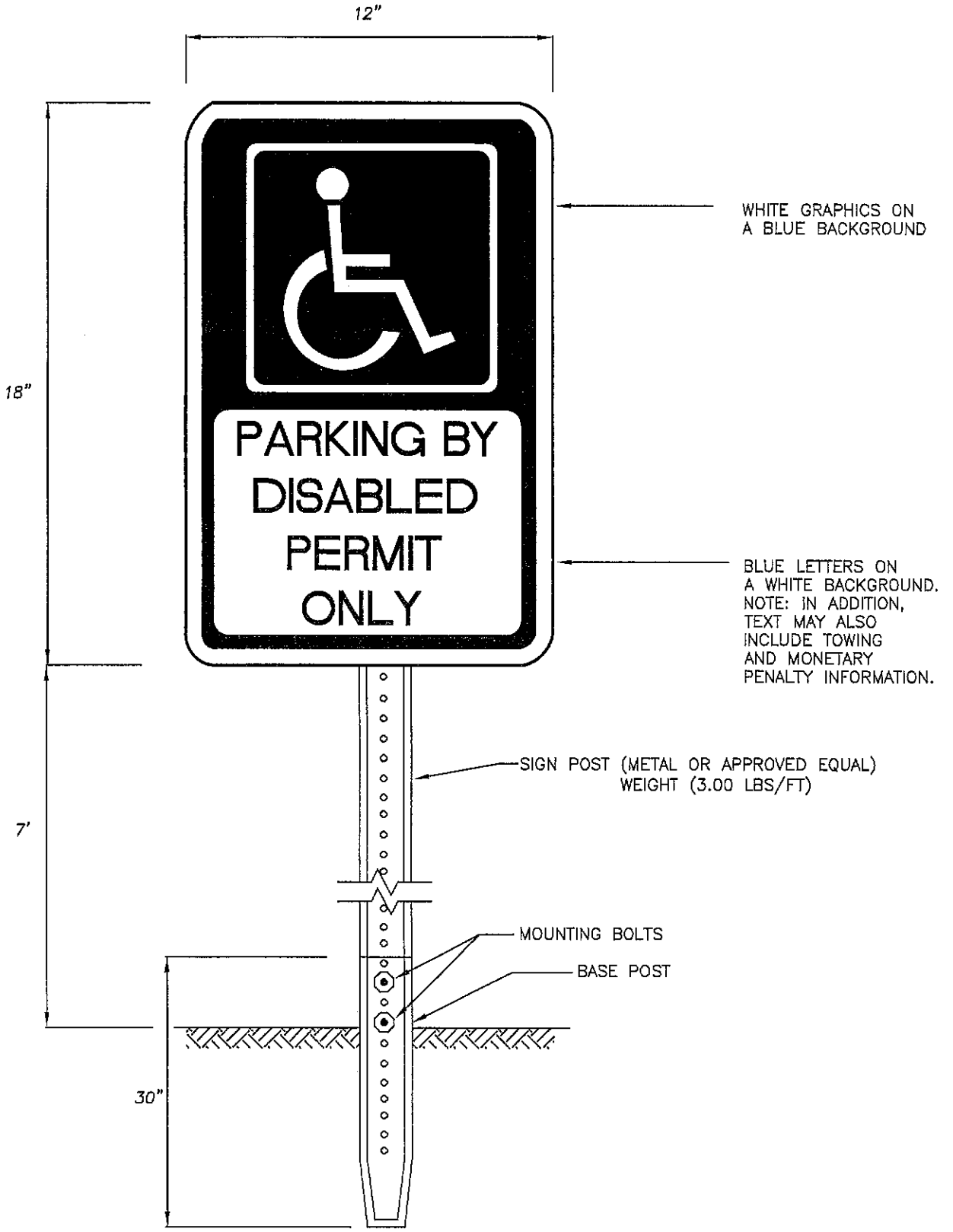
MINIMUM PARKING STANDARDS (HANDICAPPED)

OFF STREET PARKING

N.T.S.

May, 1992

DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*R–3*	*MISC. 35–85–33*
CK:	*CITY OF MIAMI, FLORIDA*		*Sheet 2 of 4*



THE ABOVE POST MOUNTED SIGN, OR EQUIVALENT SHALL BE PLACED AT THE END OF EACH HANDICAP STALL, CLEARLY VISIBLE TO THE VEHICLE DRIVER.

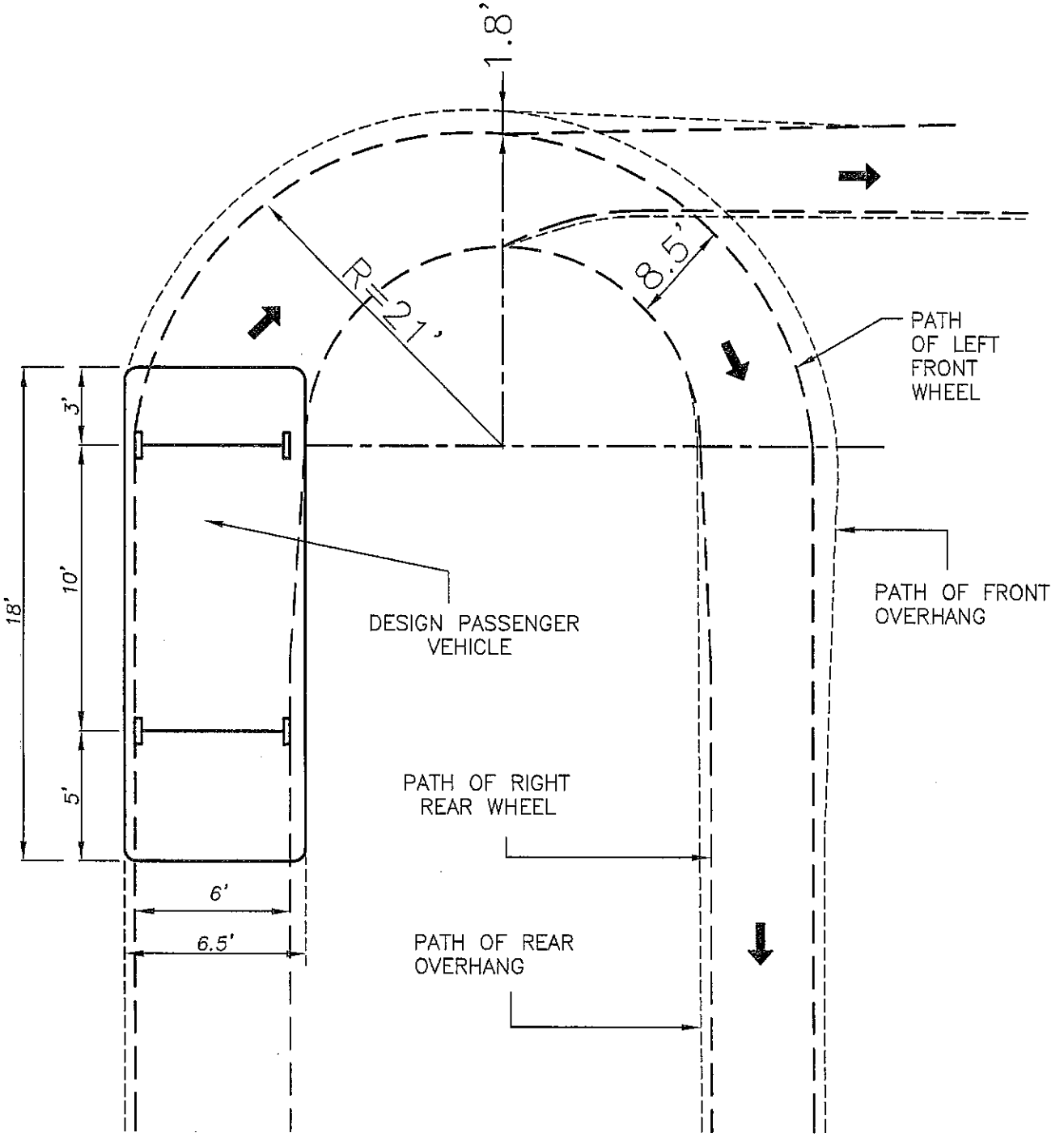
SIGNAGE FOR HANDICAP STALLS

OFF STREET PARKING

N.T.S.

Feb. 1992

DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*R-3*	*MISC. 35-85-33*
CK:	*CITY OF MIAMI, FLORIDA*		*Sheet 3 of 4*



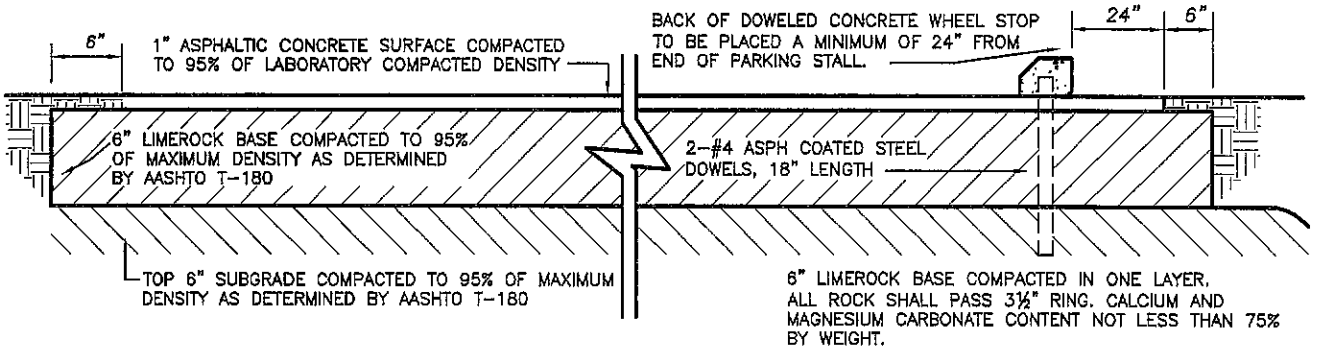
MINIMUM TURNING PATH FOR PASSENGER VEHICLE

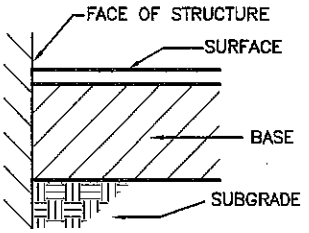
0 10 20 30

SCALE IN FEET

May, 1983

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-33
CK:	CITY OF MIAMI, FLORIDA		SHEET 4 OF 4

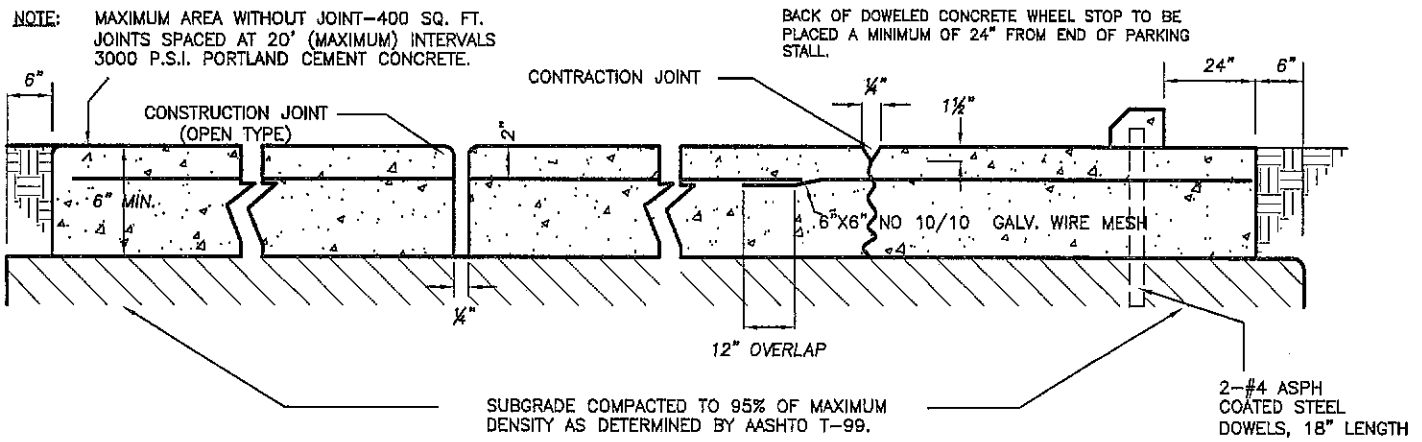


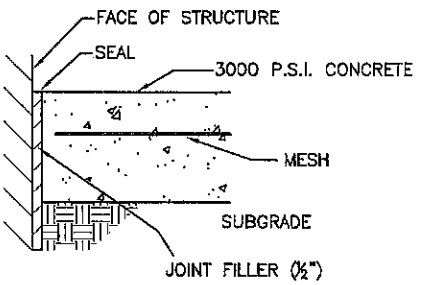


IN FIELD AREAS

NO PIECE OF ROCK OVER 6" WILL BE PLACED IN THE UPPER TWO FEET OF THE FILL. NO PIECE OF ROCK OVER 3½" WILL BE PLACED IN THE UPPER TWELVE INCHES OF THE COMPACTED FILL. SUBGLADE UP TO 6" BELOW THE BOTTOM OF THE BASE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

ASPHALTIC CONCRETE





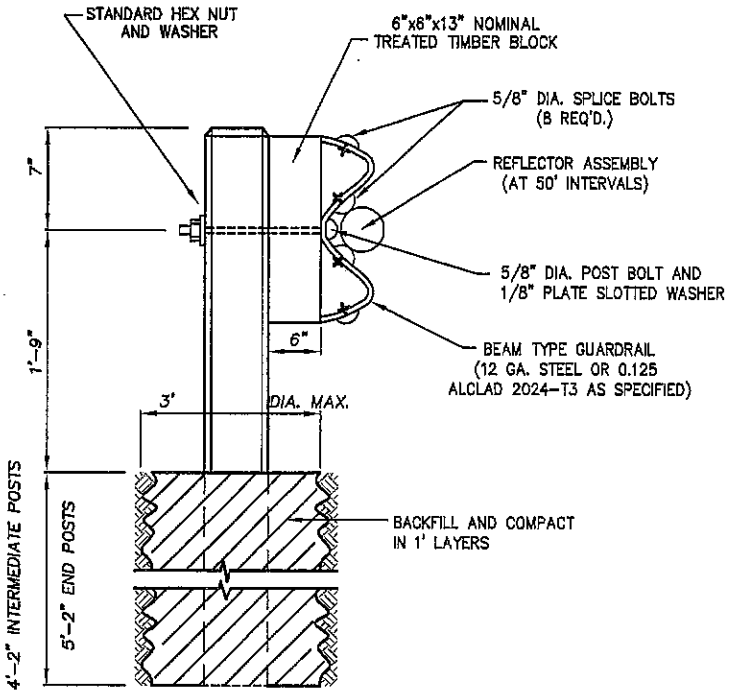
NOTE: MINIMUM CROSS SLOPE ON ASPHALT AND CONCRETE PAVEMENT SHALL BE 0.125"

PORTLAND CEMENT CONCRETE

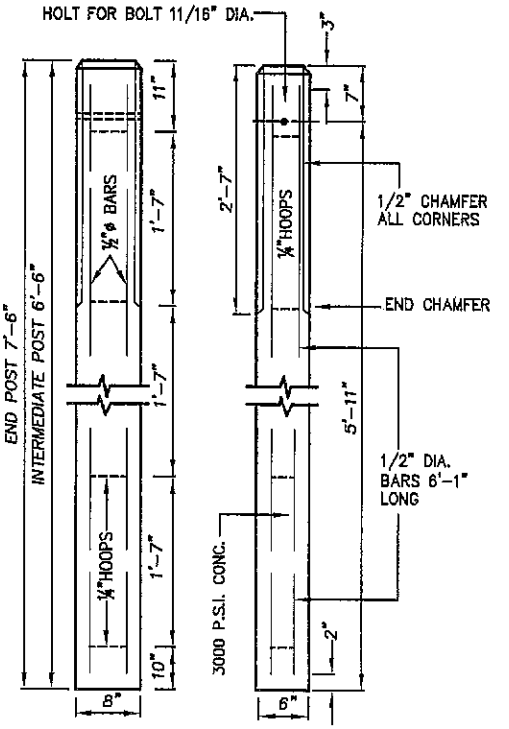
STANDARD PAVEMENT DETAIL FOR OFF-STREET PARKING AREAS

N.T.S. Oct. 1962

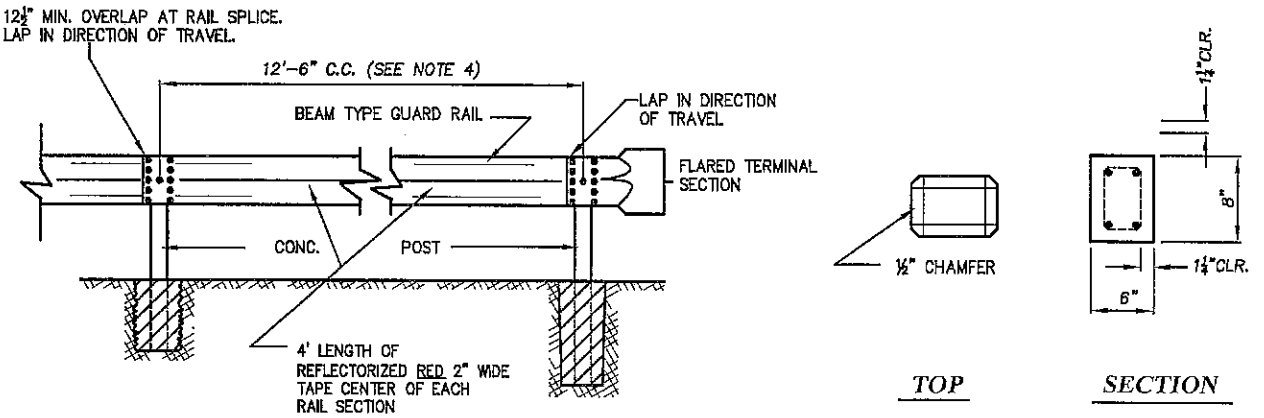
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-85-34
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



POST INSTALLATION



REINFORCED CONCRETE POST



TOP *SECTION*

ELEVATION OF BARRICADE INSTALLATION

NOTES:

1. CONCRETE POSTS SHALL BE PAINTED WITH AN 80 % WHITE PORTLAND CEMENT PAINT AFTER INSTALLATION.
2. ALUMINUM RAIL ELEMENTS

   ALL BOLTS SHALL BE ALUMINUM ALLOY 2024-T4 (ASTM SPECIFICATIONS B-211, LATEST ISSUE) WITH 30 MINUTE ANODIZE AND 30 MINUTE SEAL . ALL HEX NUTS SHALL BE ALUMINUM ALLOY 6061-T6, NOT ANODIZE. ALL WASHERS SHALL BE ALCLAD 2024-T4 ALUMINUM ALLOY, NOT ANODIZED.
3. STEEL RAIL ELEMENTS

   ALL FASTENINGS, INCLUDING NUTS, BOLTS & WASHERS SHALL BE GALVANIZED STEEL. STEEL RAIL ELEMENTS SHALL BE SUPPLIED SHOP PRIMED. AFTER ERECTION, RAIL ELEMENTS SHALL BE PAINTED WITH ONE COAT RUST INHIBITIVED PAINT: FOLLOWED AT LEAST 24 HOURS LATER, BY THREE COATS OF SUITABLE WHITE GUARD RAIL PAINT, (S.R.D. SPECIFICATION-CODE W-1 OR EQUAL)
4. AT ALL "DEAD END" ROADWAYS AND AT T-INTERSECTIONS ADJACENT TO CANAL OR DITCH, POST SPACING SHALL BE 6'-3" EXTENDING THE FULL WIDTH OF THE INTERSECTING ROADWAY RIGHT OF WAY.

PERMANENT STREET BARRICADE GUARD RAIL TYPE

N.T.S.

April, 1964

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-35
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

NOTE:

1- COMPACTION DETAIL APPLIES TO BOTH CUTS & FILLS.

2- NO PIECE OF ROCK OVER 6" WILL BE PLACED IN THE UPPER TWO FEET OF THE EMBANKMENT.
NO PIECE OF ROCK OVER 3 1/2" WILL BE PLACED IN THE UPPER TWELVE INCHES
OF THE COMPLETED EMBANKMENT.

3- ASPHALT MIX EQUIVALENCY SP-12.5 COULD BE USED INSTEAD OF S-1
SP-9.5 COULD BE USED INSTEAD OF S-3

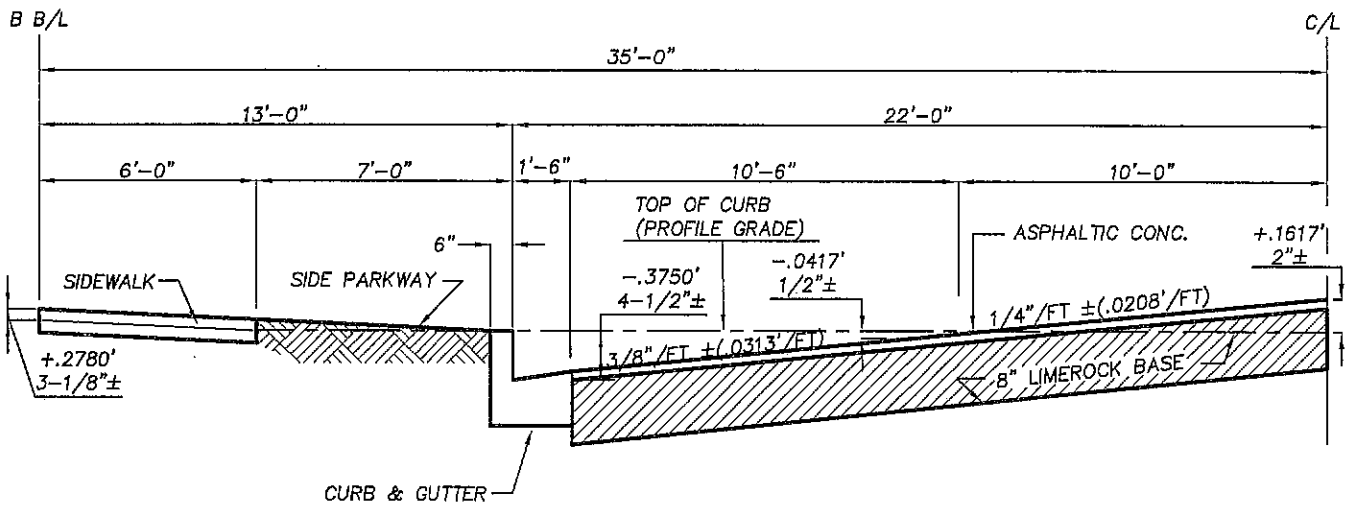
TYPICAL BASE COURSES AND PAVEMENT COMPACTION

N.T.S. May, 1967

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-37
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

NOTE:

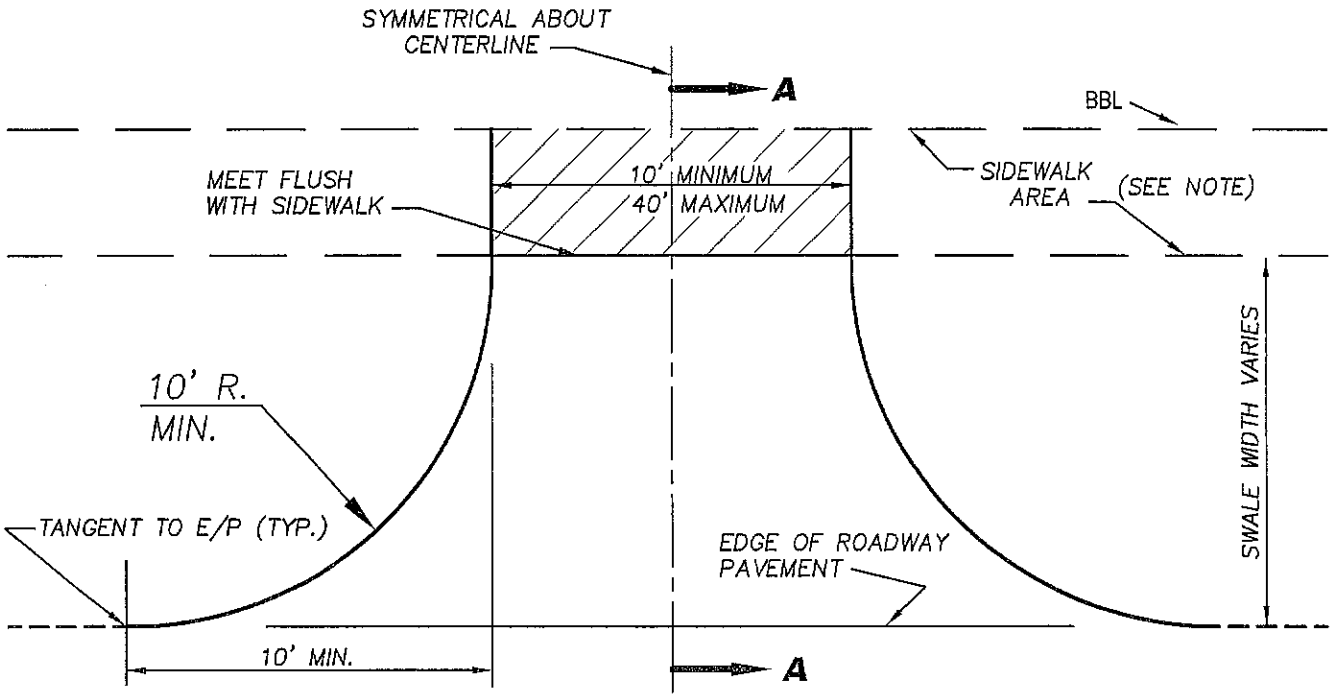
THE SURFACE SHALL BE 1-1/2" OF ASPHALTIC CONCRETE.
STREET CROWN BASED ON STRAIGHT SLOPES.



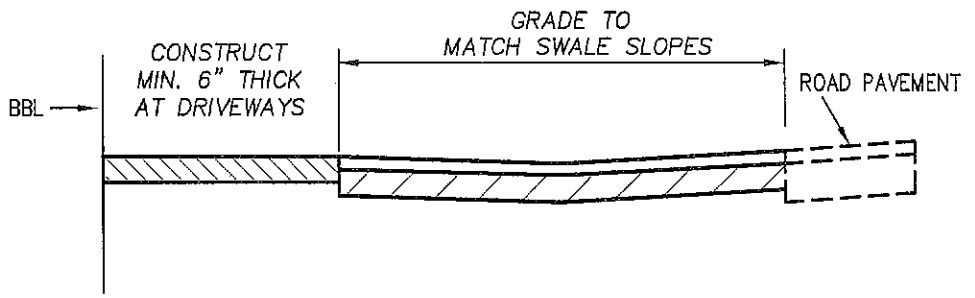
TYPICAL CROSS SECTION SE 14 STREET BETWEEN BRICKELL AVE & BRICKELL BAY DR.

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-39
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



PLAN



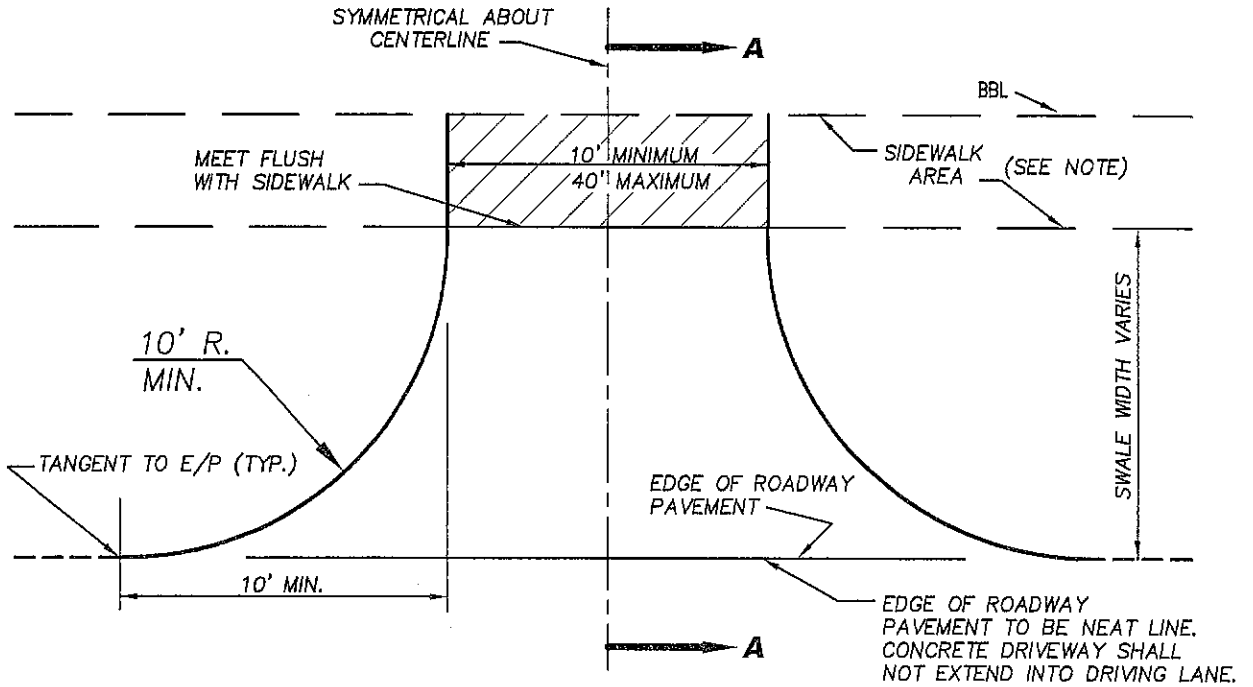
SECTION "A-A"

1– WEARING SURFACE SHALL BE 1" ASPHALTIC CONCRETE WITH 6" LIMEROCK BASE.
2– EXTEND PAVEMENT TO BBL WHERE SIDEWALK DOES NOT EXISTS.
3– USE 6" CONCRETE SIDEWALK WHERE CONCRETE SIDEWALK EXISTS WITHIN LIMIT OF DRIVEWAY.
4– ALL CONSTRUCTION SHALL CONFORM TO STANDARDS OF THE PUBLIC WORKS DEPARTMENT AND OWNER SHALL MAINTAIN THE DRIVEWAY APPROACH WITHIN THE PUBLIC RIGHT OF WAY.
5– REFER TO PUBLIC WORKS DEPARTMENT BULLETIN NO. 37 FOR ALTERNATIVE DRIVEWAY APPROACHES.
6– DRIVEWAY WIDTH TO COMPLY WITH PUBLIC WORKS DEPARTMENT BULLETIN No. 28.

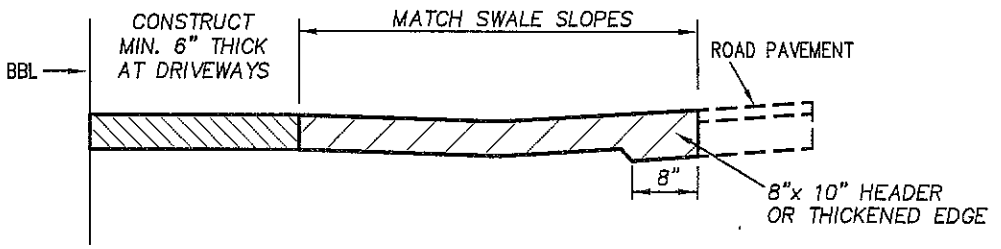
TYPICAL ASPHALTIC CONCRETE DRIVEWAY

N.T.S. Aug. 1968

DR: MA	DEPARTMENT OF PUBLIC WORKS	R–1	MISC. 35–85–40
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 3



PLAN



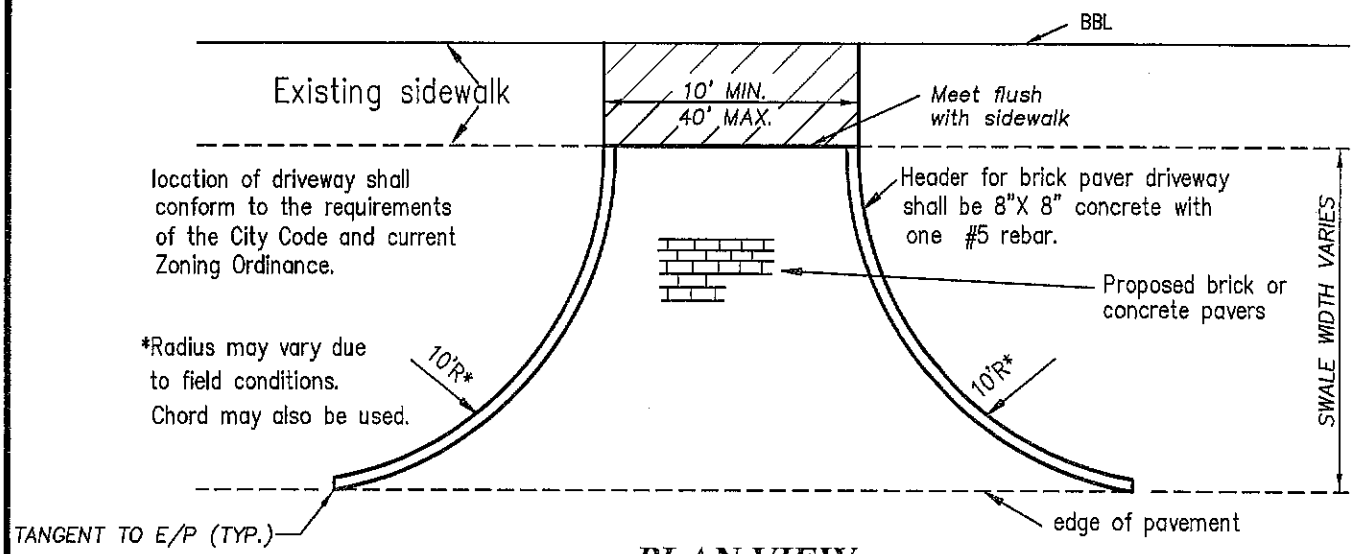
SECTION "A-A"

1. DRIVEWAY WITHIN THE RIGHT OF WAY AREA SHALL BE UNREINFORCED, HAVE A MINIMUM THICKNESS OF 6 INCHES AND A MINIMUM STRENGTH OF 3000 P.S.I. AT 28 DAYS.
2. EXTEND CONCRETE PAVEMENT TO BBL WHERE SIDEWALK DOES NOT EXIST.
3. CONSTRUCT 6 INCH CONCRETE SIDEWALK WHERE 4 INCH SIDEWALK EXISTS WITHIN LIMIT OF DRIVEWAY.
4. CONSTRUCTION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF THE CITY'S "STANDARD CONTRACT DOCUMENTS AND SPECIFICATIONS FOR PUBLIC WORKS PROJECTS", AS AMENDED.
5. ALL CONSTRUCTION SHALL CONFORM TO STANDARDS OF THE PUBLIC WORKS DEPARTMENT AND OWNER SHALL MAINTAIN THE DRIVEWAY APPROACH WITHIN THE PUBLIC RIGHT OF WAY.
6. REFER TO PUBLIC WORKS DEPARTEMENT BULLETIN NO.37 FOR ALTERNATIVE DRIVEWAY APPROACHES.
7. DRIVEWAY WIDTH TO COMPLY WITH PUBLIC WORKS DEPARTMENT BULLETIN No. 28.

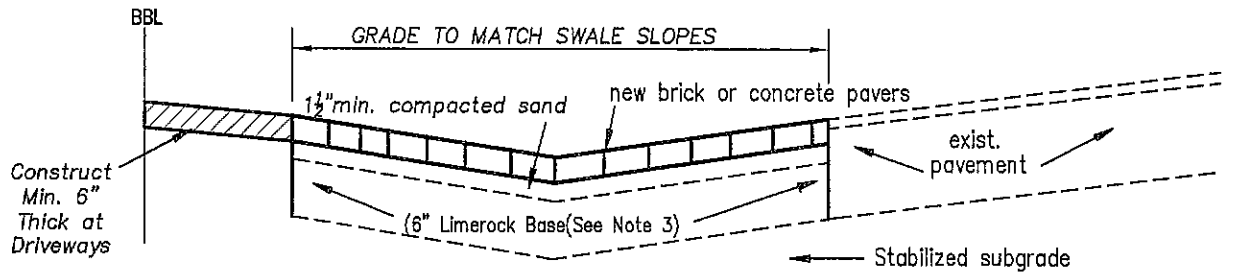
TYPICAL PORTLAND CEMENT CONCRETE DRIVEWAY

N.T.S. May, 1993

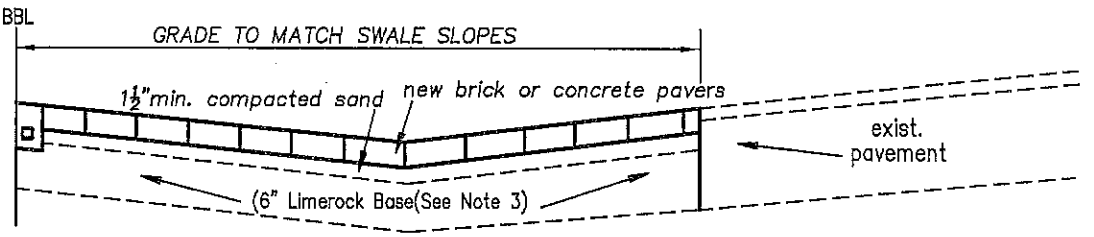
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-40
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 3



PLAN VIEW



TYPICAL CROSS SECTION WITH EXISTING SIDEWALK



Where no sidewalk exists,a brick or concrete header shall be constructed at the property line.

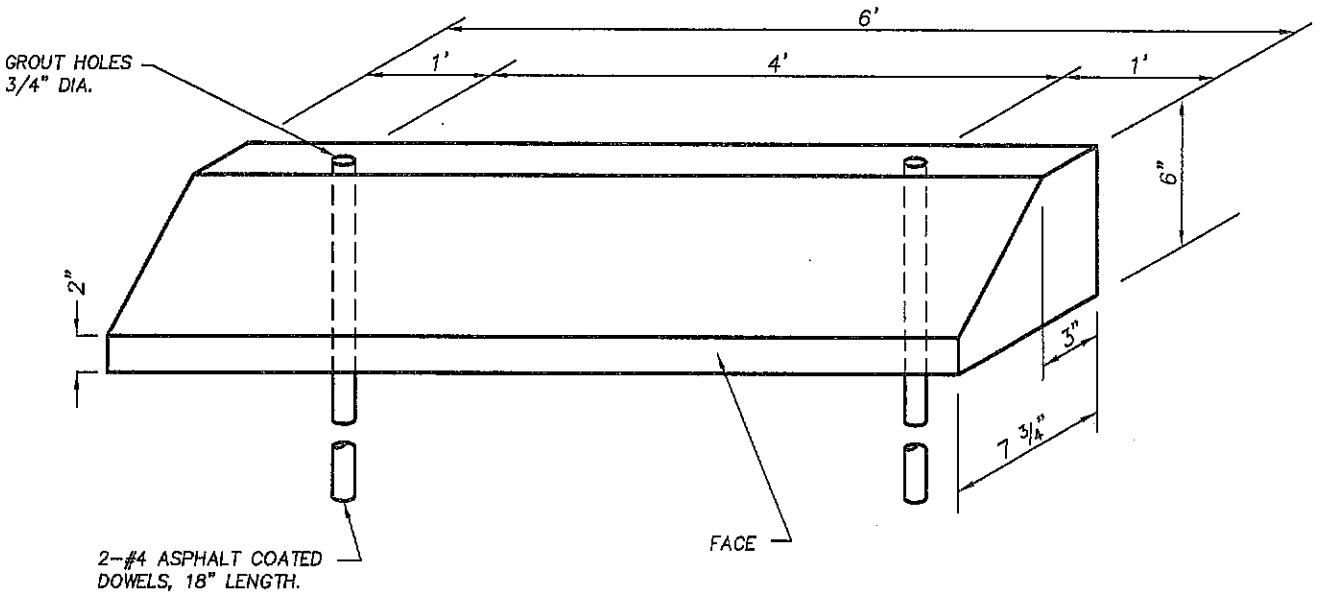
TYPICAL CROSS SECTION WITHOUT EXISTING SIDEWALK

1. Refer to Public Works Department Bulletin No. 37 for alternative driveway approaches.
2. Before construction commences, owner or his representative shall contact the Public Works Inspector and verify location and construction methods.
3. Limerock base shall be compacted to min. 95% of max. density as determined by ASTM D 1557–Test Method for Laboratoty Compaction Characteristics of Soil Using Modified Effort.
4. The Public Works Inspector shall make all decisions concerning the type of brick or concrete paver to be used.
5. All construction shall conform to standards of the Public Works Department and owner shall maintain the driveway approach within the public right of way.
5. Driveway width to comply with Public Works Department Bulletin No. 28.

TYPICAL BRICK OR CONCRETE PAVER DRIVEWAY ON ROADWAYS WITHOUT CURBS AND/OR GUTTERS

N.T.S. Oct. 1994

DR: MA	DEPARTMENT OF PUBLIC WORKS	R–2	MISC. 35–85–40
CK:	CITY OF MIAMI, FLORIDA		Sheet 3 of 3

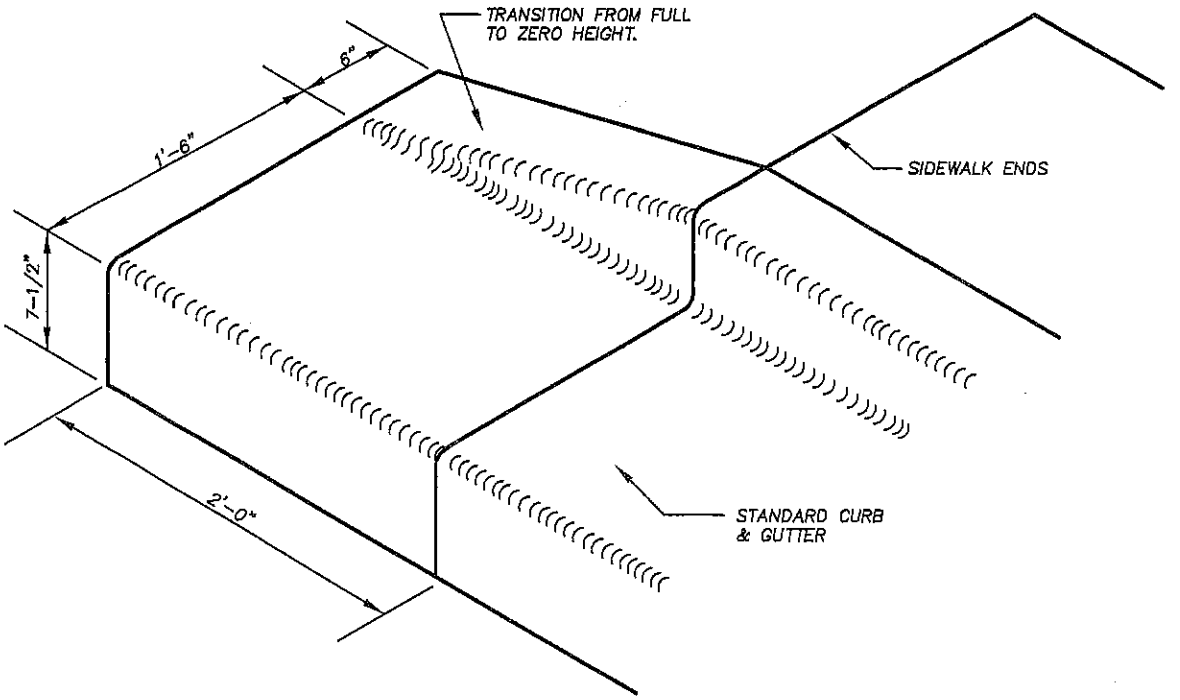


NOTE:

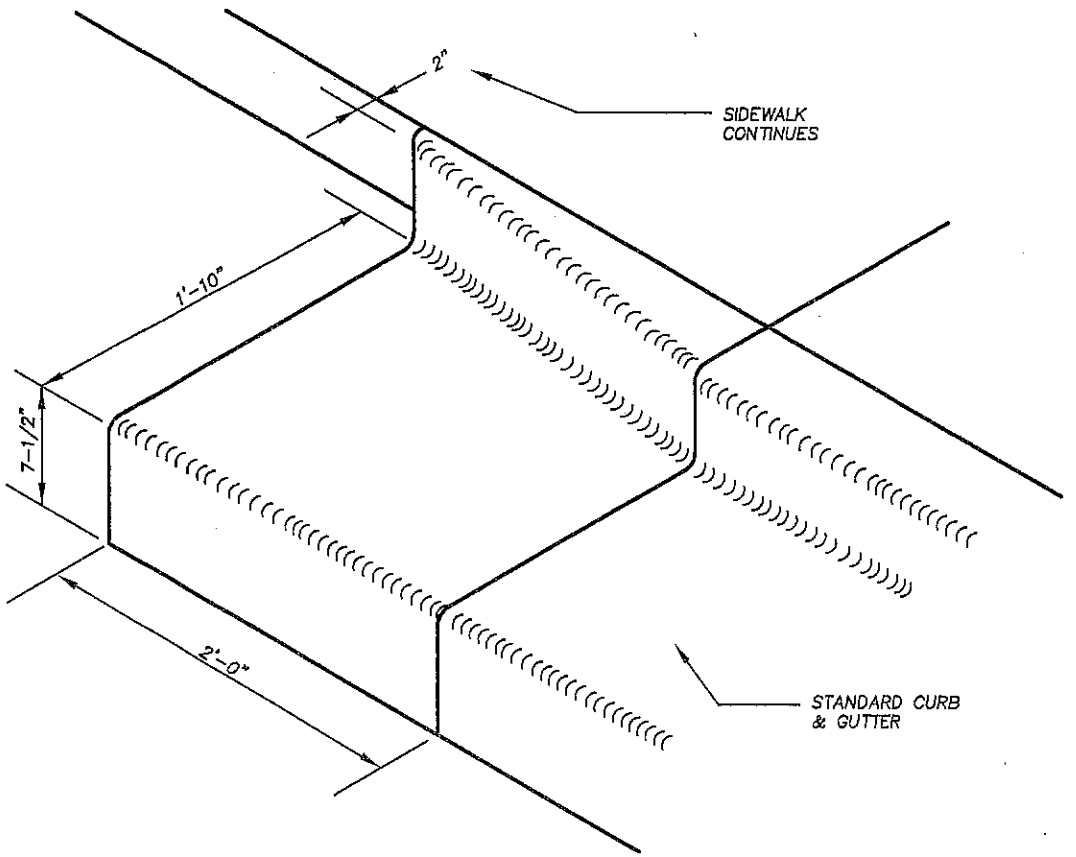
WHEEL STOP SHALL HAVE LONGITUDINAL REINFORCING: 2-#4 GALVANIZED

REINFORCED, PRE-CAST, CONCRETE WHEEL STOP

	N.T.S.		Sept. 1975
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-85-41
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



TO BE USED WHERE SIDEWALK DOES NOT CONTINUE

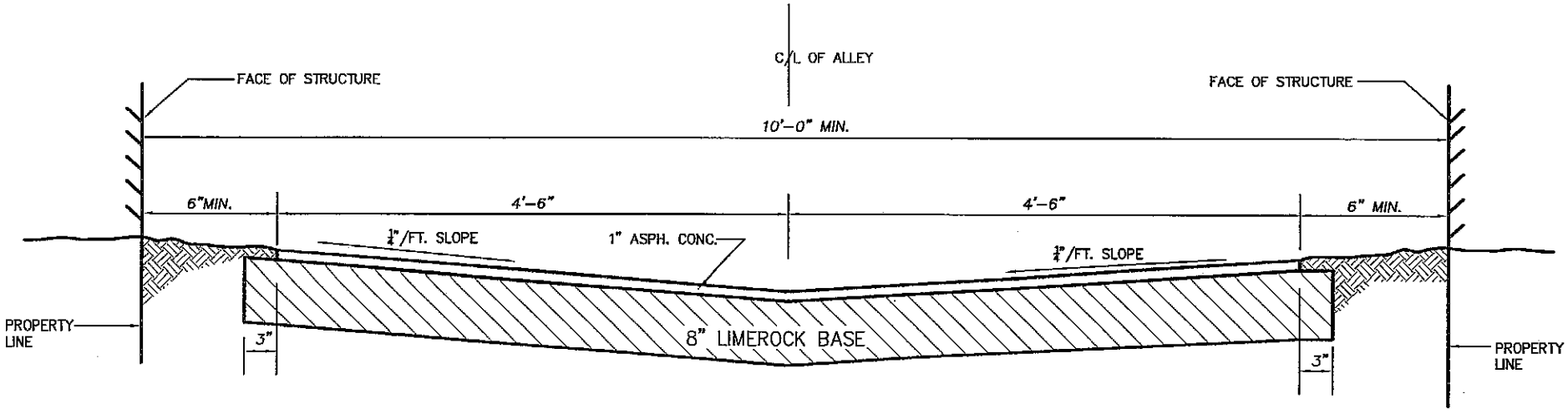


TO BE USED WHERE SIDEWALK DOES CONTINUE PAST POINT WHERE C & G ENDS

CURB AND GUTTER END TRANSITIONS

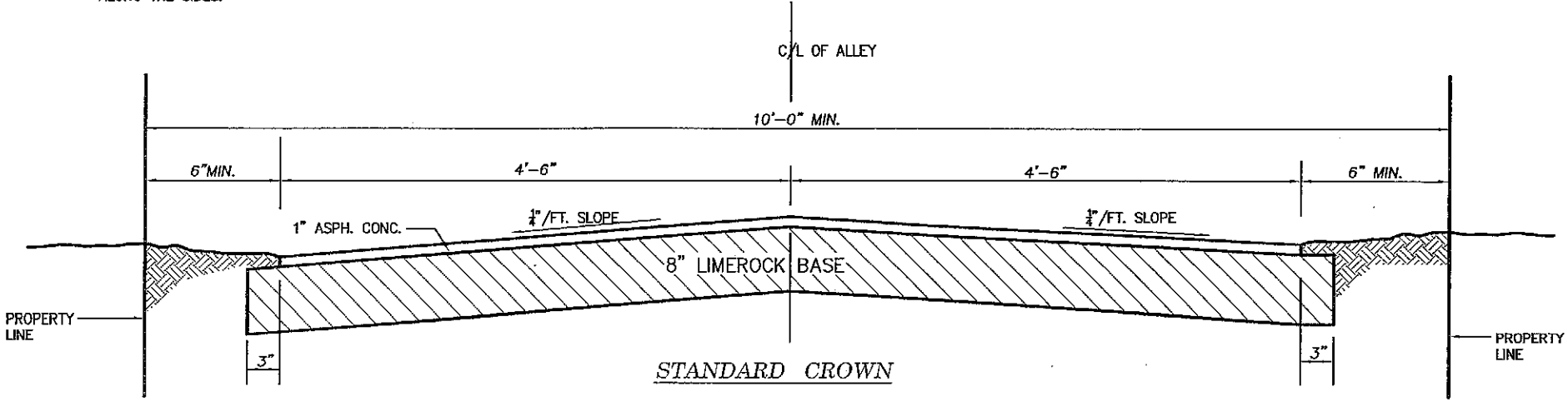
N.T.S. Jan. 1969

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-42
CK:	CITY OF MIAMI, FLORIDA	10-70	Sheet 1 of 1



NOTE: INVERTED CROWN MAYBE USED IN LOCATIONS WHERE DISSAPATION OF STORM WATER IS RESTRICTED ALONG THE SIDES.

INVERTED CROWN



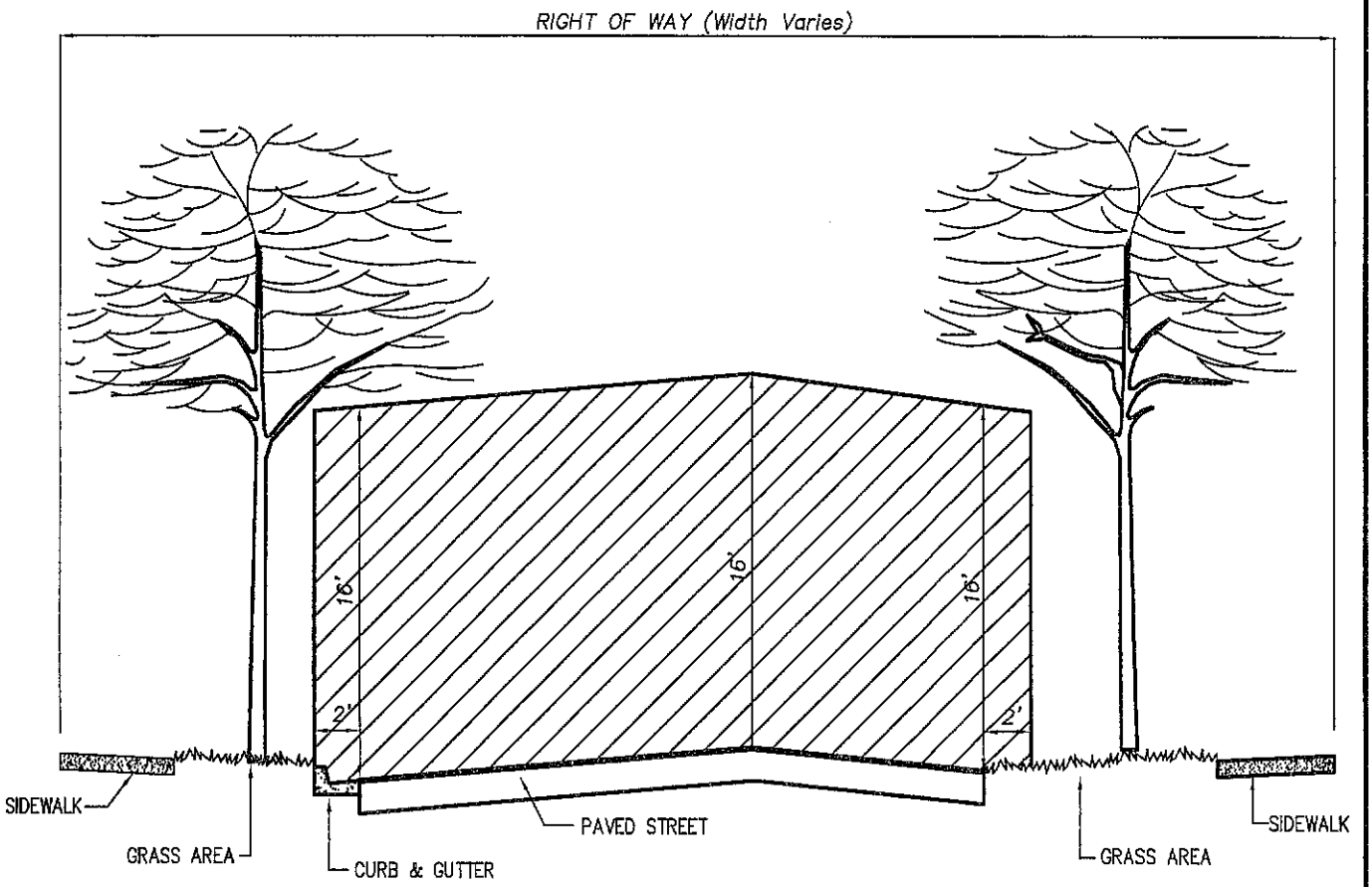
STANDARD CROWN

STANDARD ALLEY PAVEMENT CROSS SECTIONS

N.T.S.

Oct. 1962

DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*MISC. 35-85-108*
CK:	*CITY OF MIAMI, FLORIDA*	*Sheet 1 of 1*

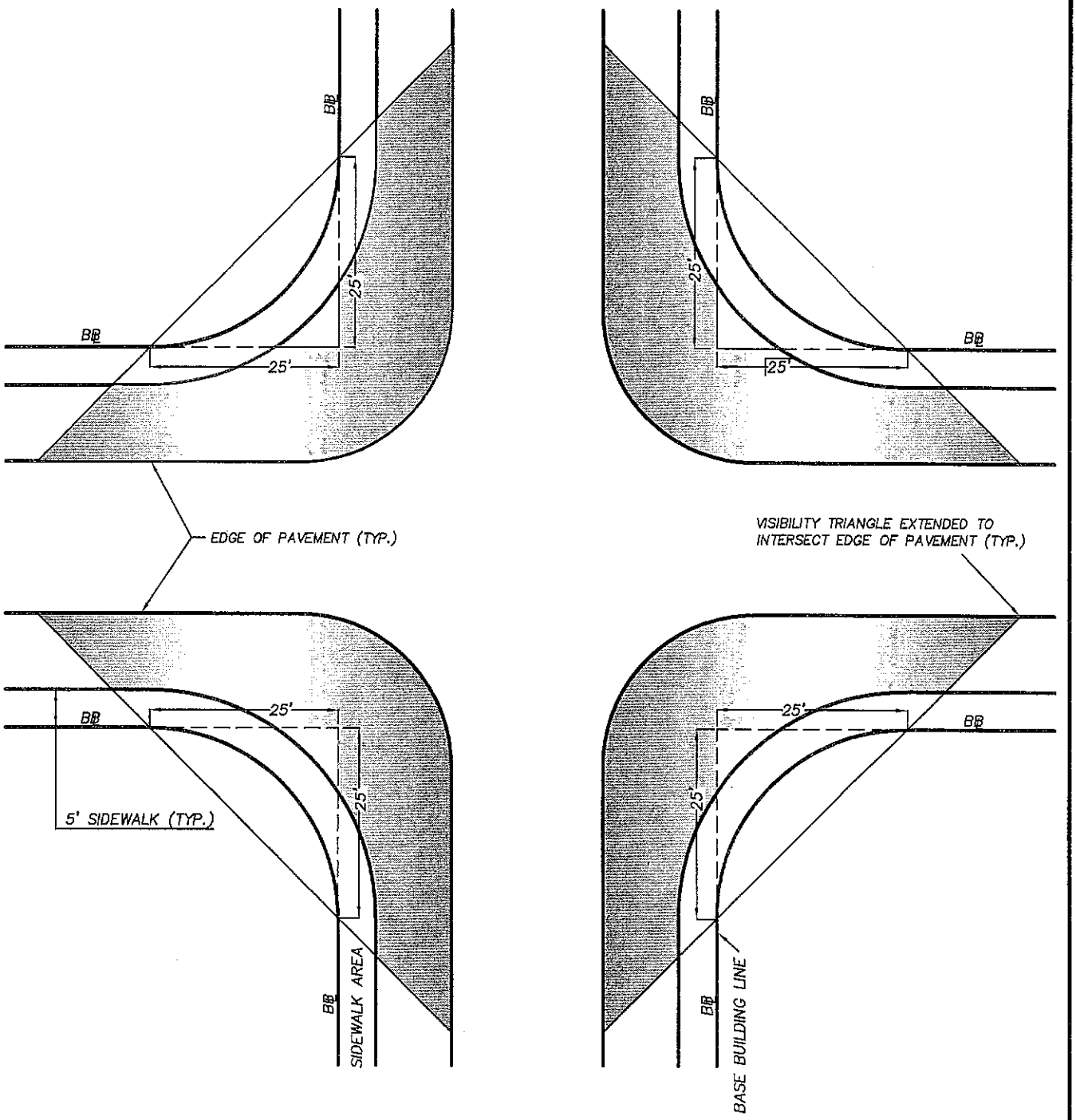


NOTE: ALL DIMENSIONS SHOWN ARE MINIMUM

AREA TO BE TRIMMED CLEAR

TREE TRIMMING IN THE STREET RIGHT OF WAY

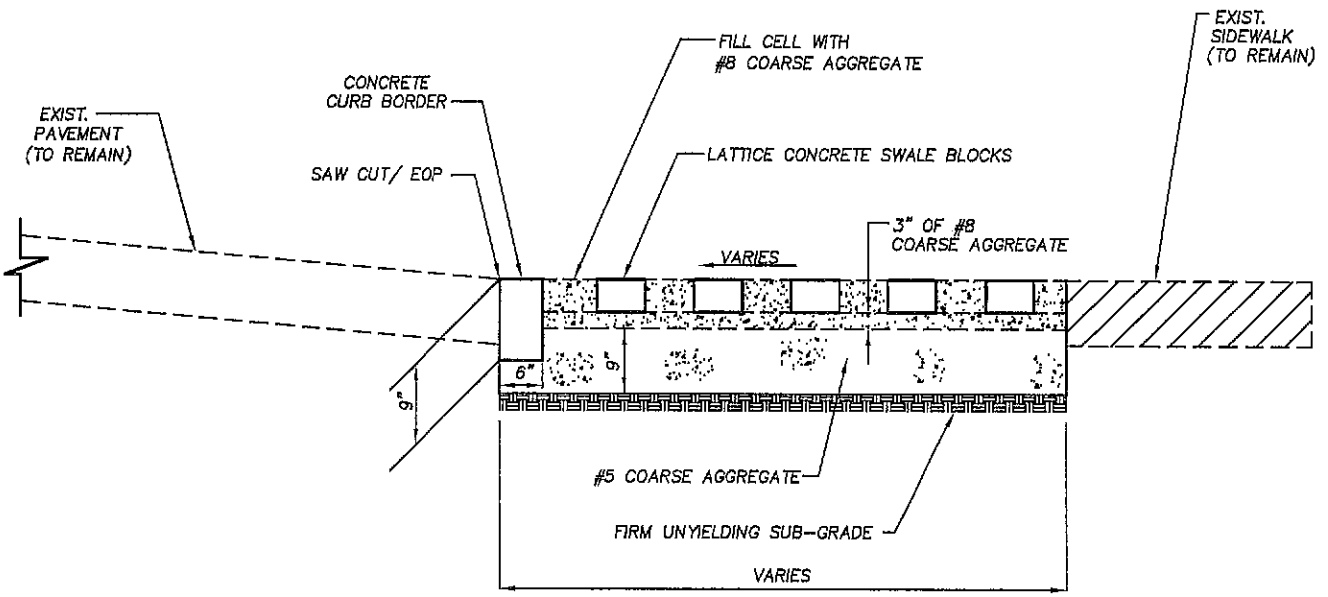
	N.T.S.		Aug. 1979
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-109
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 2



REQUIRED VISION CLEARANCE AT TYPICAL STREET INTERSECTIONS (CITY OF MIAMI ZONING ORD. 908.11)

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-85-109
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 2



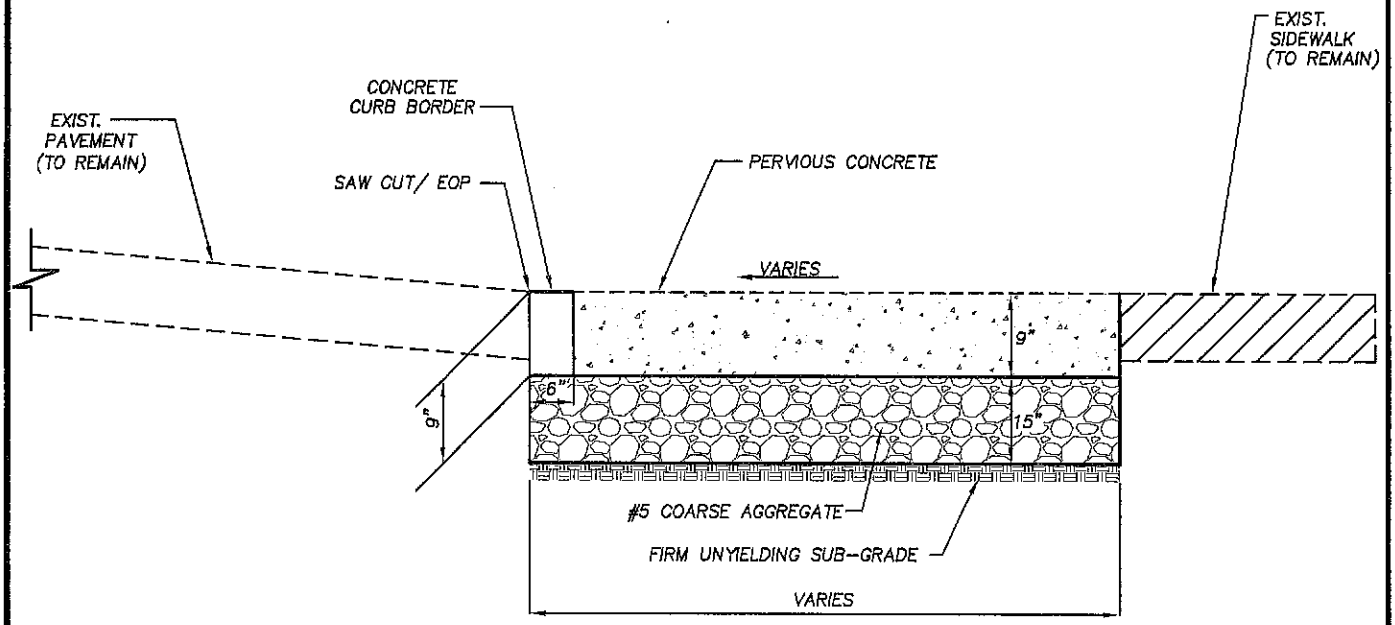
NOTE:

1. MAINTAIN EXISTING EDGE OF PAVEMENT AND SIDEWALK WHEN INSTALLING SWALE BLOCK.
2. SAW CUT EXPANSION JOINT EVERY 20 FEET ON CONCRETE CURB BORDER.
3. LOCATION OF SWALE BLOCK SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.

SWALE BLOCK DETAIL

N.T.S. April 2004

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-110
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 2

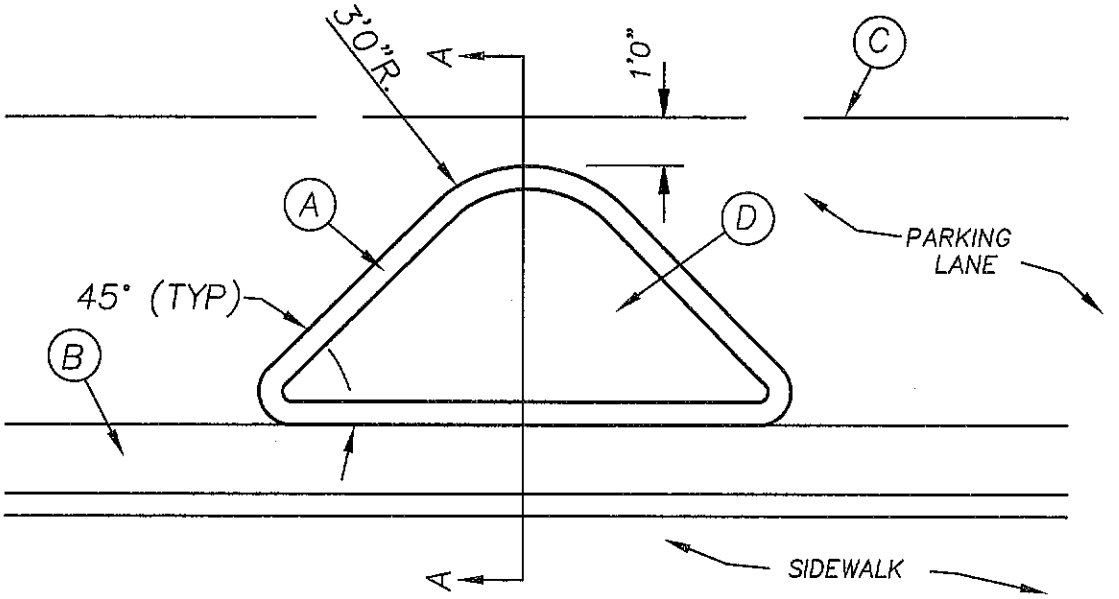


NOTE:

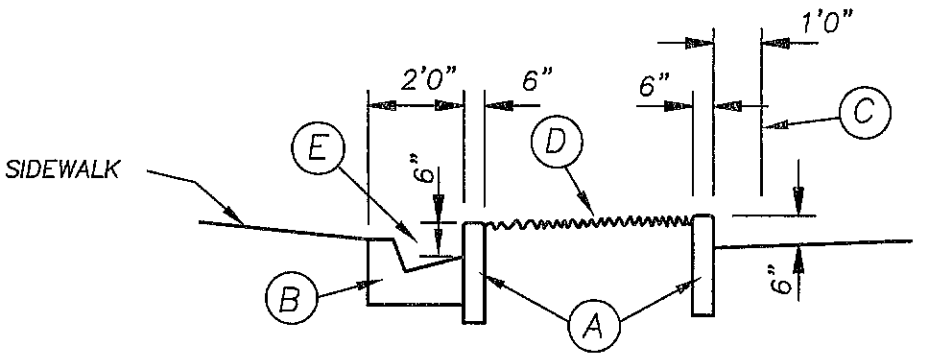
1. MAINTAIN EXISTING EDGE OF PAVEMENT AND SIDEWALK WHEN INSTALLING SWALE BLOCK.
2. SAW CUT EXPANSION JOINT EVERY 20 FEET ON CONCRETE CURB BORDER.
3. LOCATION OF PERVIOUS CONCRETE SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.

PERVIOUS CONCRETE SWALE DETAIL

	N.T.S.		April 2004
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-85-110
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 2



PLAN VIEW



SECTION A-A

LEGEND:

(A) 6" CONCRETE CURB

(B) 6" CONCRETE CURB AND GUTTER

(C) EDGE OF DRIVING LANE

(D) PLANTER

(E) TRENCH DRAIN GRATES MAY BE REQUIRED OVER THE GUTTER PAN IN URBAN AREAS WITH SIGNIFICANT PEDESTRIAN TRAFFIC

NOTES:

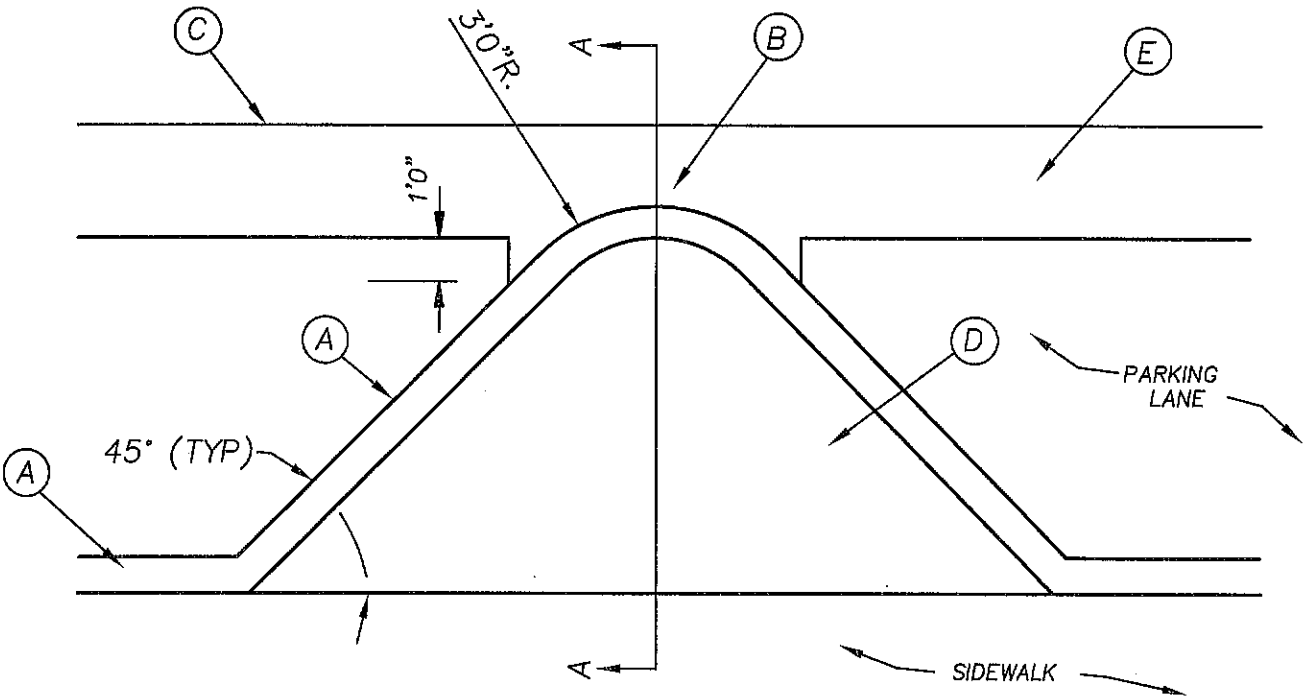
1. PARKING LANE PLANTER TO BE UTILIZED ON TYPICAL CROSS SECTION 50–F IN ACCORDANCE WITH PLANTER SPACING AND VISIBILITY REQUIREMENTS AND AT LOCATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. PLANTER SHALL BE FILLED WITH SUITABLE PLANTING SOIL AND TREE/MULCH INSTALLED IN ACCORDANCE WITH PUBLIC WORKS TREE PLANTING PROCEDURES.
3. ALTERNATIVE CURB CONFIGURATIONS TO ACCOMMODATE EXISTING FIELD CONDITIONS REQUIRE ADVANCE APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.

PARKING LANE PLANTER

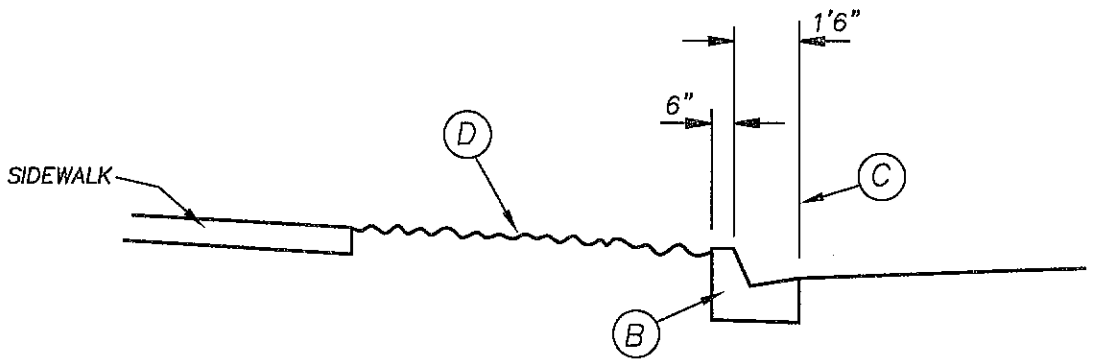
(FLOW–THRU CURB AND GUTTER)

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35–85–111
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 1 of 3



PLAN VIEW



SECTION A-A

LEGEND:

(A) 6" CONCRETE CURB

(B) 6" CONCRETE CURB AND GUTTER

(C) EDGE OF DRIVING LANE

(D) PLANTER

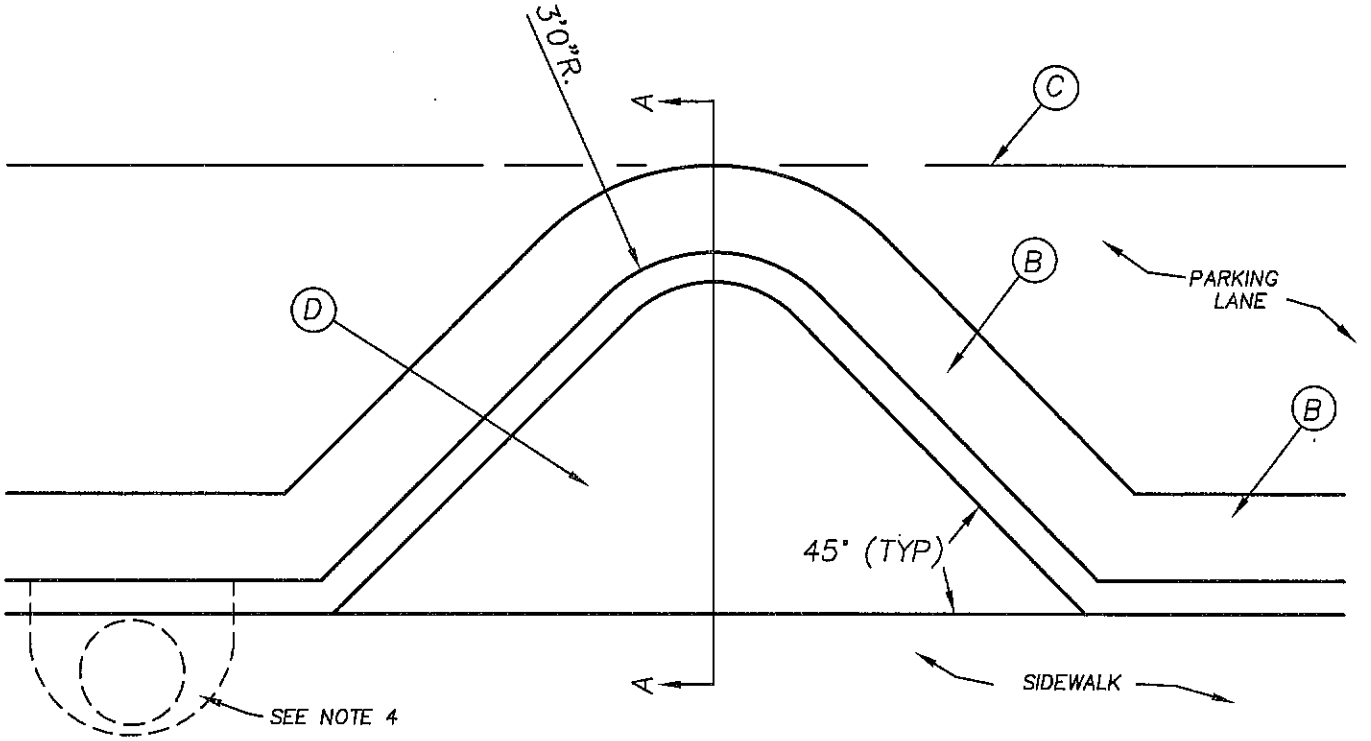
(E) 2' VALLEY GUTTER

NOTES:

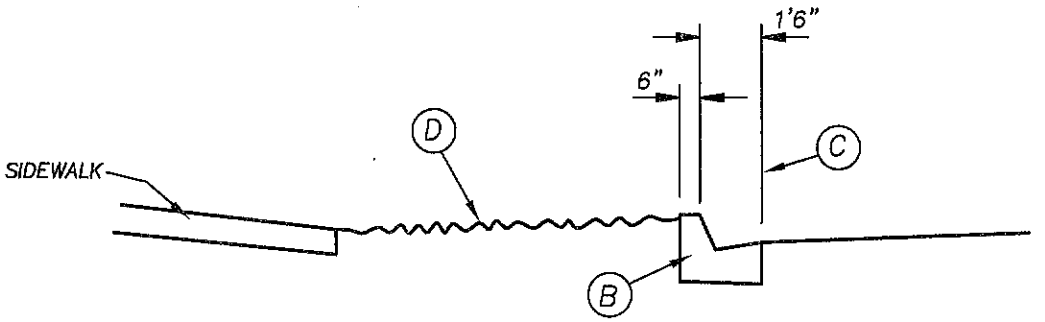
1. PARKING LANE PLANTER TO BE UTILIZED IN ACCORDANCE WITH PLANTER SPACING AND VISIBILITY REQUIREMENTS AND AT LOCATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. PLANTER SHALL BE FILLED WITH SUITABLE PLANTING SOIL AND TREE/MULCH INSTALLED IN ACCORDANCE WITH PUBLIC WORKS TREE PLANTING PROCEDURES.
3. ALTERNATIVE CURB CONFIGURATIONS TO ACCOMMODATE EXISTING FIELD CONDITIONS REQUIRE ADVANCE APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.

PARKING LANE PLANTER

OCTOBER, 2010	N.T.S.	
DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-111
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 2 of 3



PLAN VIEW



SECTION A-A

LEGEND:

Ⓑ 6" CONCRETE CURB AND GUTTER

Ⓒ EDGE OF DRIVING LANE

Ⓓ PLANTER

NOTES:

1. PARKING LANE PLANTER TO BE UTILIZED IN ACCORDANCE WITH PLANTER SPACING AND VISIBILITY REQUIREMENTS AND AT LOCATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. PLANTER SHALL BE FILLED WITH SUITABLE PLANTING SOIL AND TREE/MULCH INSTALLED IN ACCORDANCE WITH PUBLIC WORKS TREE PLANTING PROCEDURES.
3. ALTERNATIVE CURB CONFIGURATIONS TO ACCOMMODATE EXISTING FIELD CONDITIONS REQUIRE ADVANCE APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.
4. PROPER DRAINAGE FACILITIES SHALL BE INSTALLED WHERE PLANTER BLOCKS THE LONGITUDINAL FLOW OF STORM WATER.

PARKING LANE PLANTER

OCTOBER, 2010 — N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-85-111
CK: LJH	CITY OF MIAMI, FLORIDA	Sheet 3 of 3

SEWER INDEX

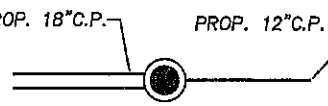
SEWER LEGEND

PROPOSED


MANHOLE

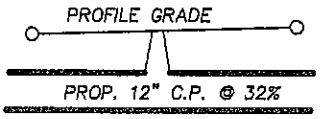

TYPE "F-3" CATCH BASIN


TYPE "D" CATCH BASIN

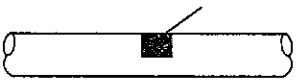


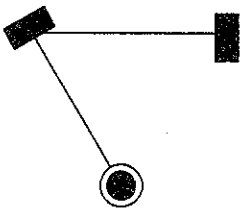
PIPE SEWER (STORM)


TERMINAL MANHOLE



PIPE AND MANHOLE IN PROFILE


SPECIAL INLET CONNECTION



PROP. 12" CONC. PIPE

POINT A INV. EL. + 3.3

POINT B INV. EL. + 3.2

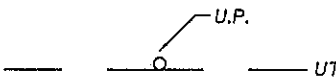
THE ABOVE NOTE IS USED FOR PROPOSED CONNECTIONS BETWEEN CATCH BASIN AND MANHOLES. POINT A INVERT INDICATES PROPOSED INVERT AT CATCH BASIN. POINT B INVERT INDICATES PROPOSED AT CATCH BASIN. WHERE CONNECTION EXISTS BETWEEN CATCH BASINS, INVERT A INDICATES THE FARTHEST INVERT FROM THE MANHOLE.

EXISTING

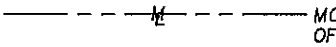

SANITARY OR STORM SEWER


TYPE "F-3" CATCH BASIN

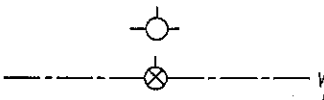

TYPE "D" CATCH BASIN

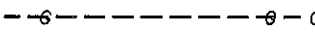


UTILITY CABLE & POLE

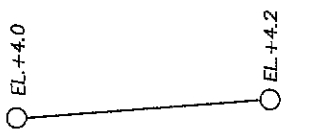


MONUMENT LINE OF STREET

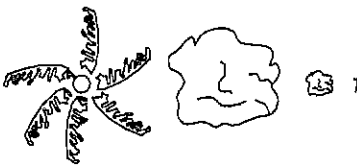

WATER MAIN WITH VALVE & FIRE HYDRANT


GAS MAIN


SIDEWALK



STREET GRADE

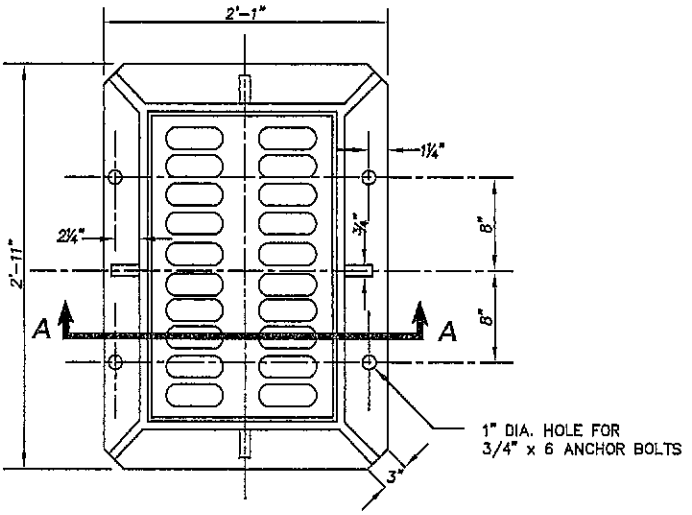

TREES & SHRUBS

N.T.S.

JAN, 1954

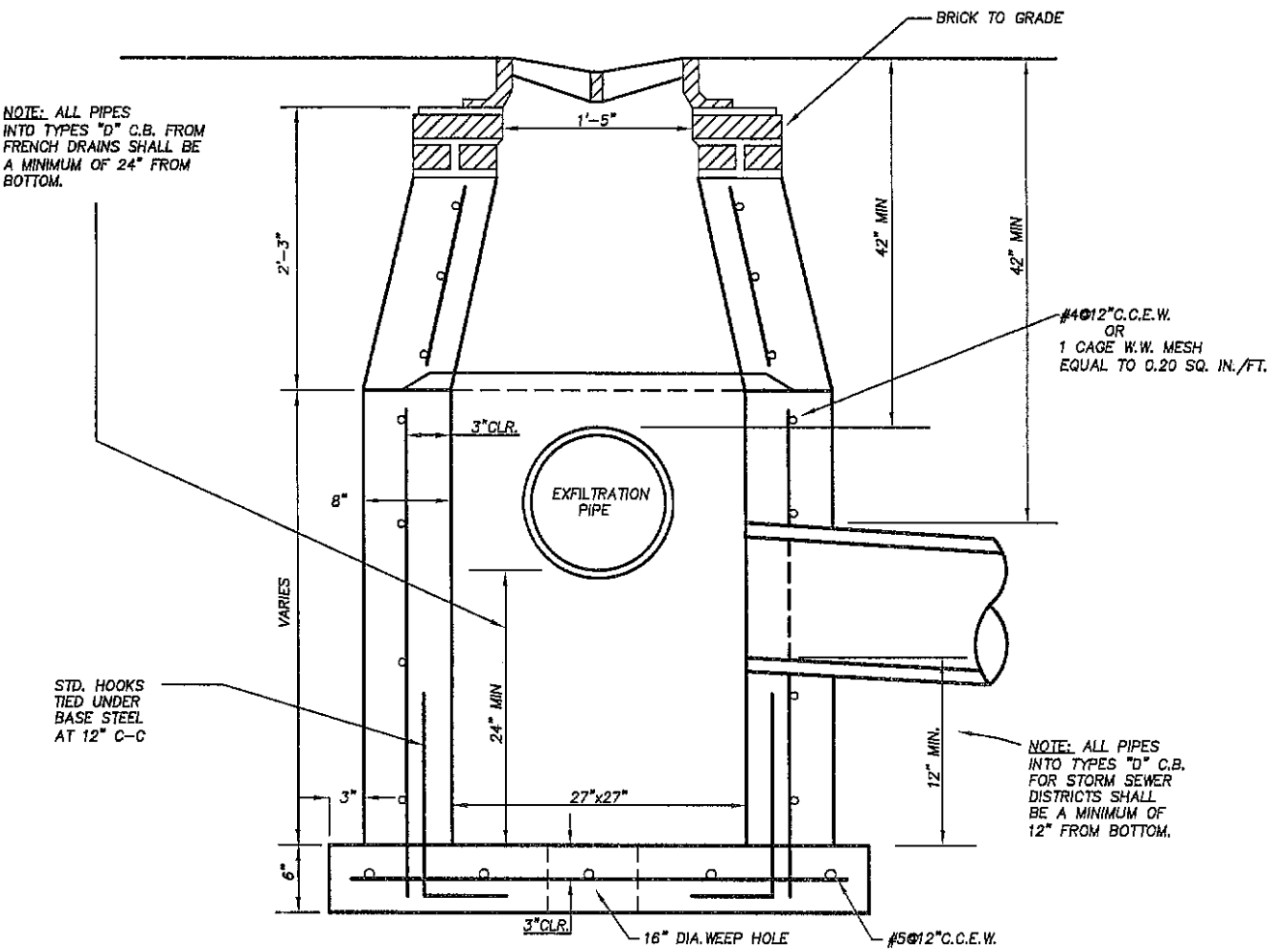
DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-86-1
CK:	CITY OF MIAMI, FLORIDA	Sheet 1 of 1

INLET



NOTE: ALL CONCRETE MIN. 4,000 P.S.I. @ 28 DAYS

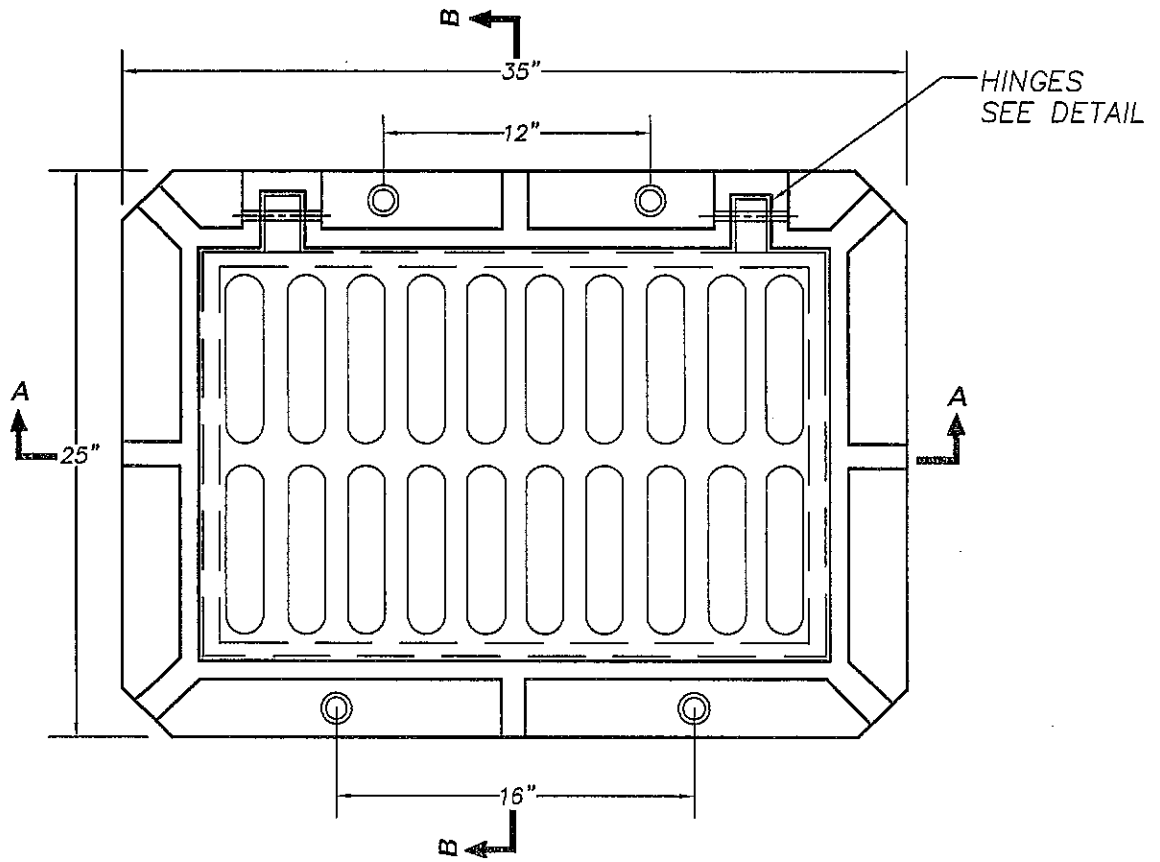
SECTION "A-A"

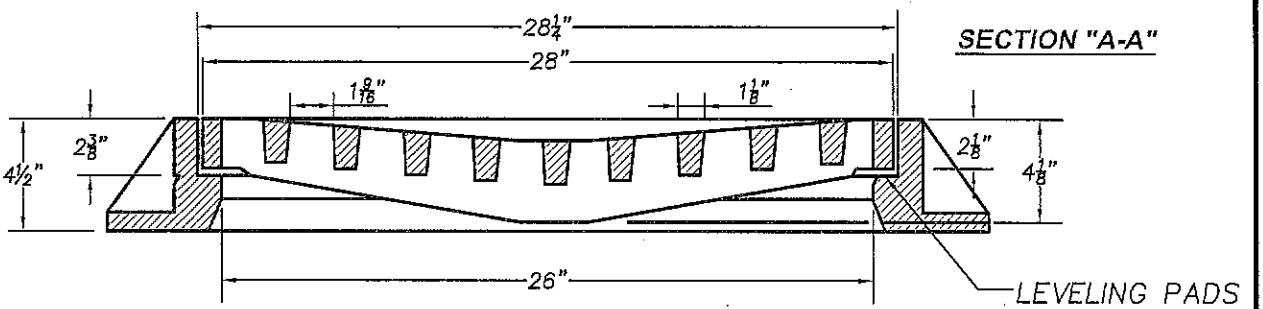


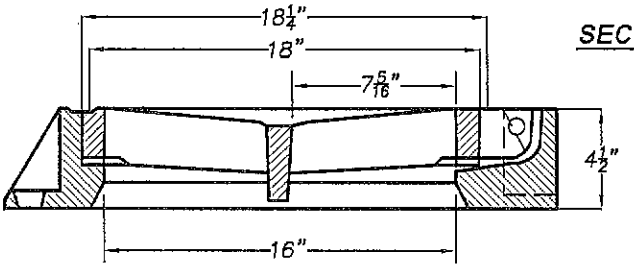
TYPE "D" CATCH BASIN

N.T.S. JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-5	MISC. 35-86-2
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 5







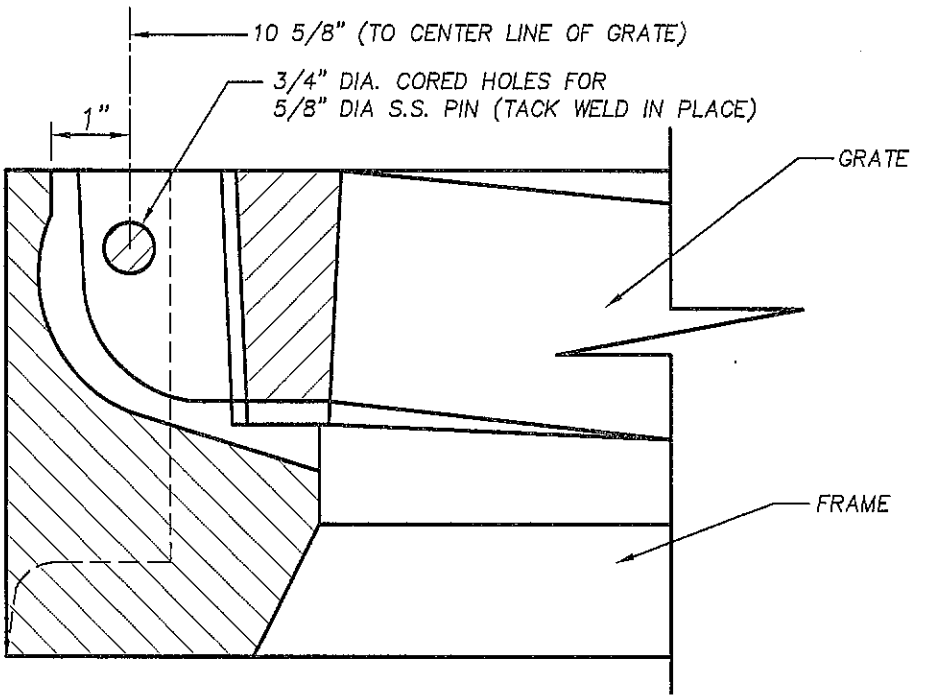
NOTES:

1. MATERIAL: ASTM–A48 CLASS 30B GREY IRON.
2. GRATE WT. APP. 155 LBS.
3. FRAME WT. APP. 210 LBS.

HINGED
TYPE "D" CATCH BASIN FRAME & COVER

N.T.S. ,2008

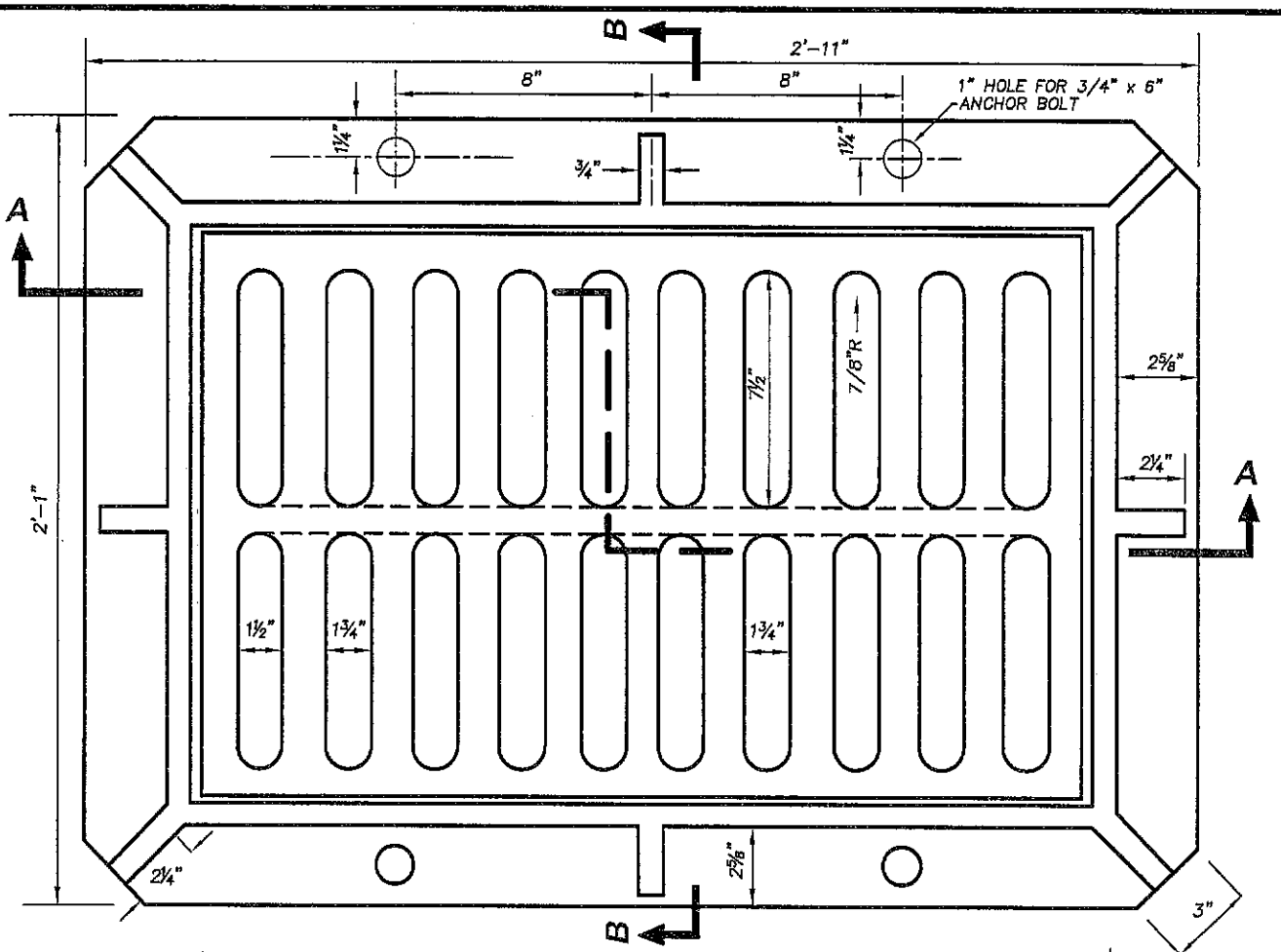
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35–86–2
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 5

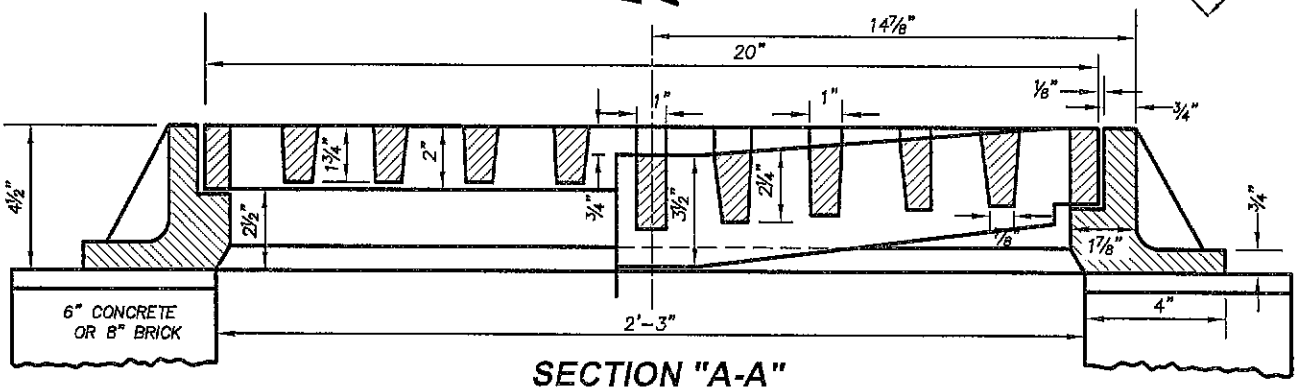


FRAME & GRATE HINGE DETAIL

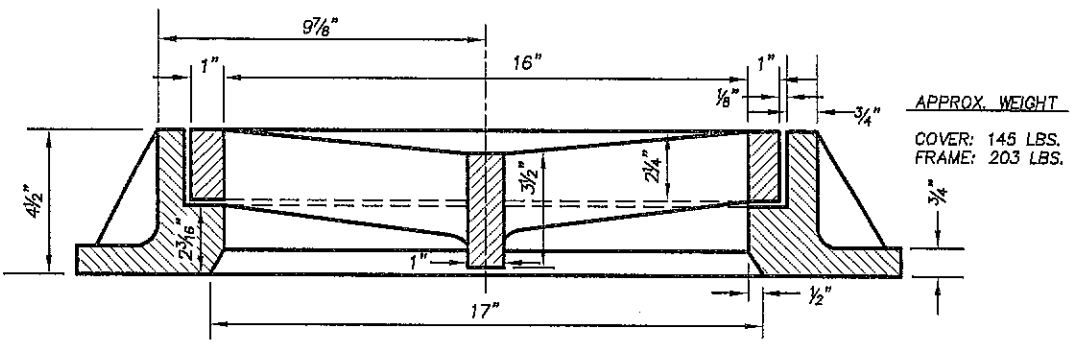
HINGED
TYPE "D" CATCH BASIN FRAME & COVER

	N.T.S.		,2008
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-86-2
CK:	CITY OF MIAMI, FLORIDA		Sheet 3 of 5





SECTION "A-A"



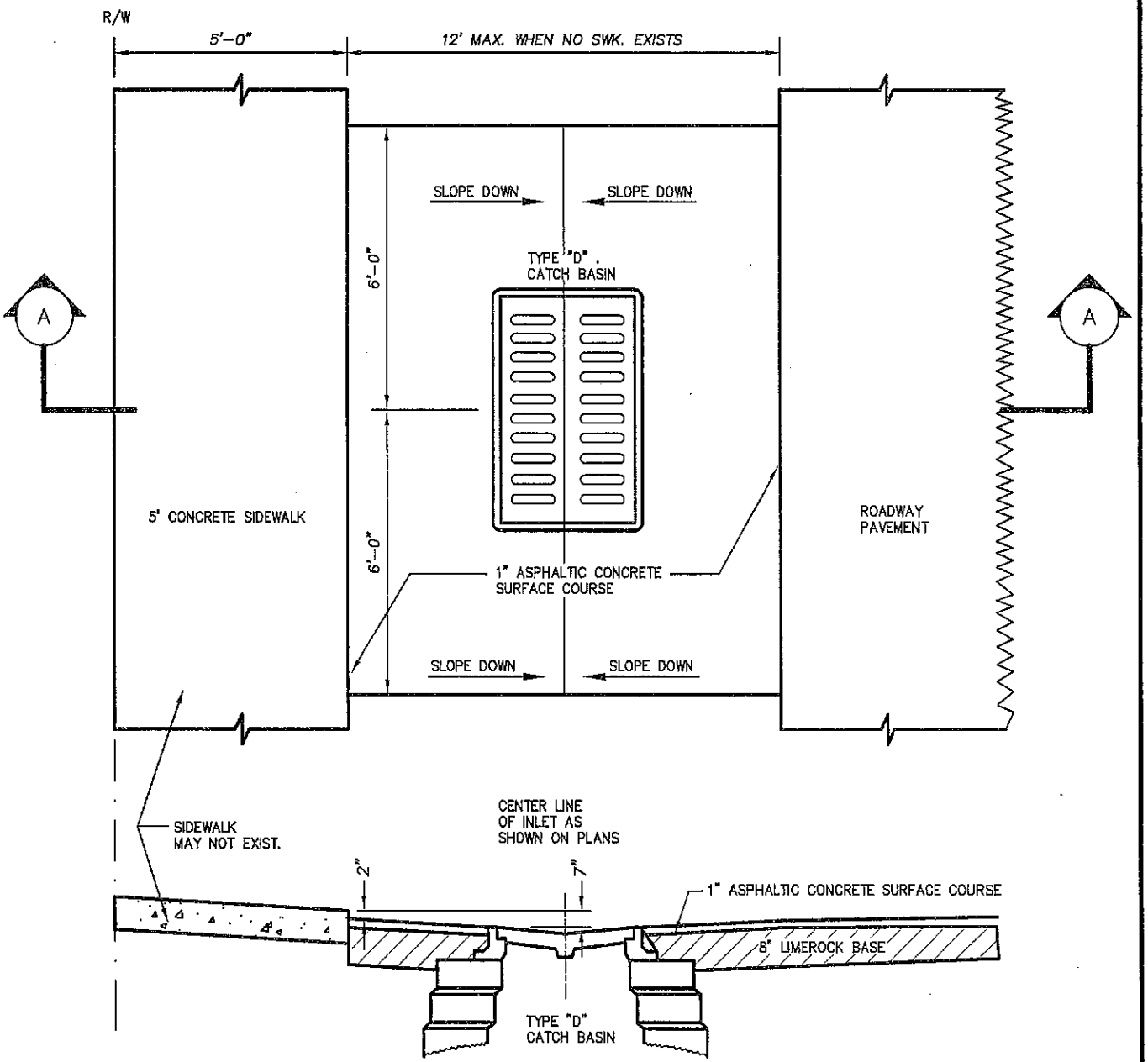
SECTION "B-B"

TYPE "D" CATCH BASIN FRAME & COVER

(NOT TO BE USED, FOR REFERENCE ONLY)

N.T.S. JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-86-2
CK:	CITY OF MIAMI, FLORIDA	9-64	Sheet 4 of 5

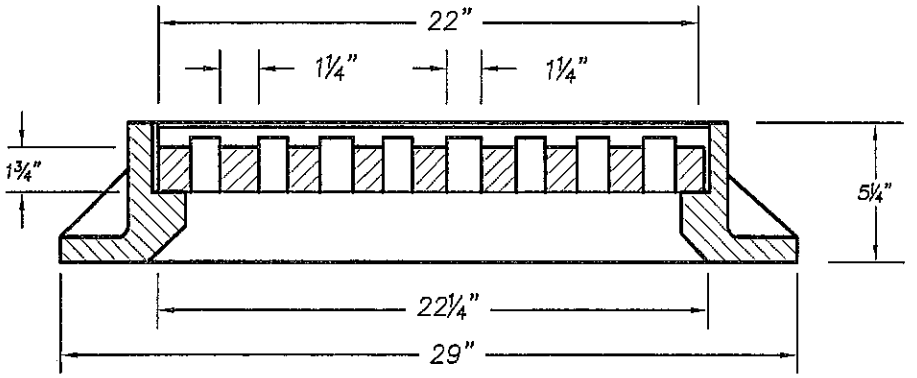


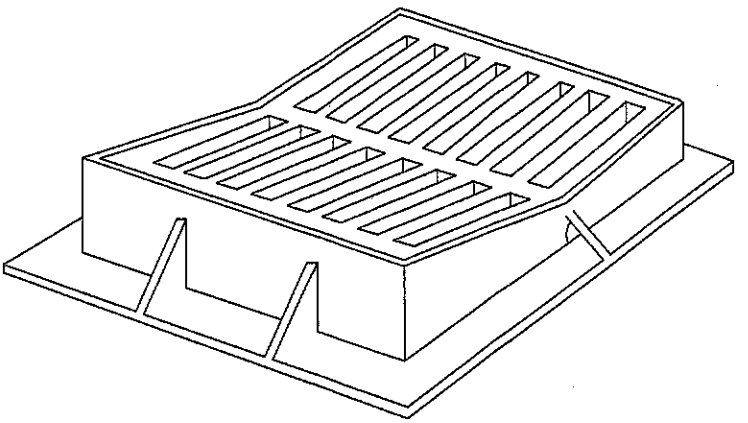
SECTION A-A

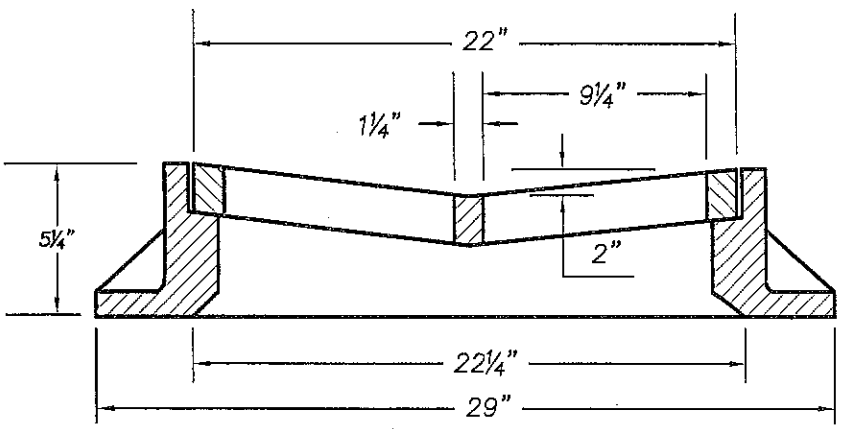
TYPE "D" CATCH BASIN PAVING DETAILS

N.T.S. *JAN. 1958*

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-4	MISC. 35-86-2
CK:	CITY OF MIAMI, FLORIDA		Sheet 5 of 5

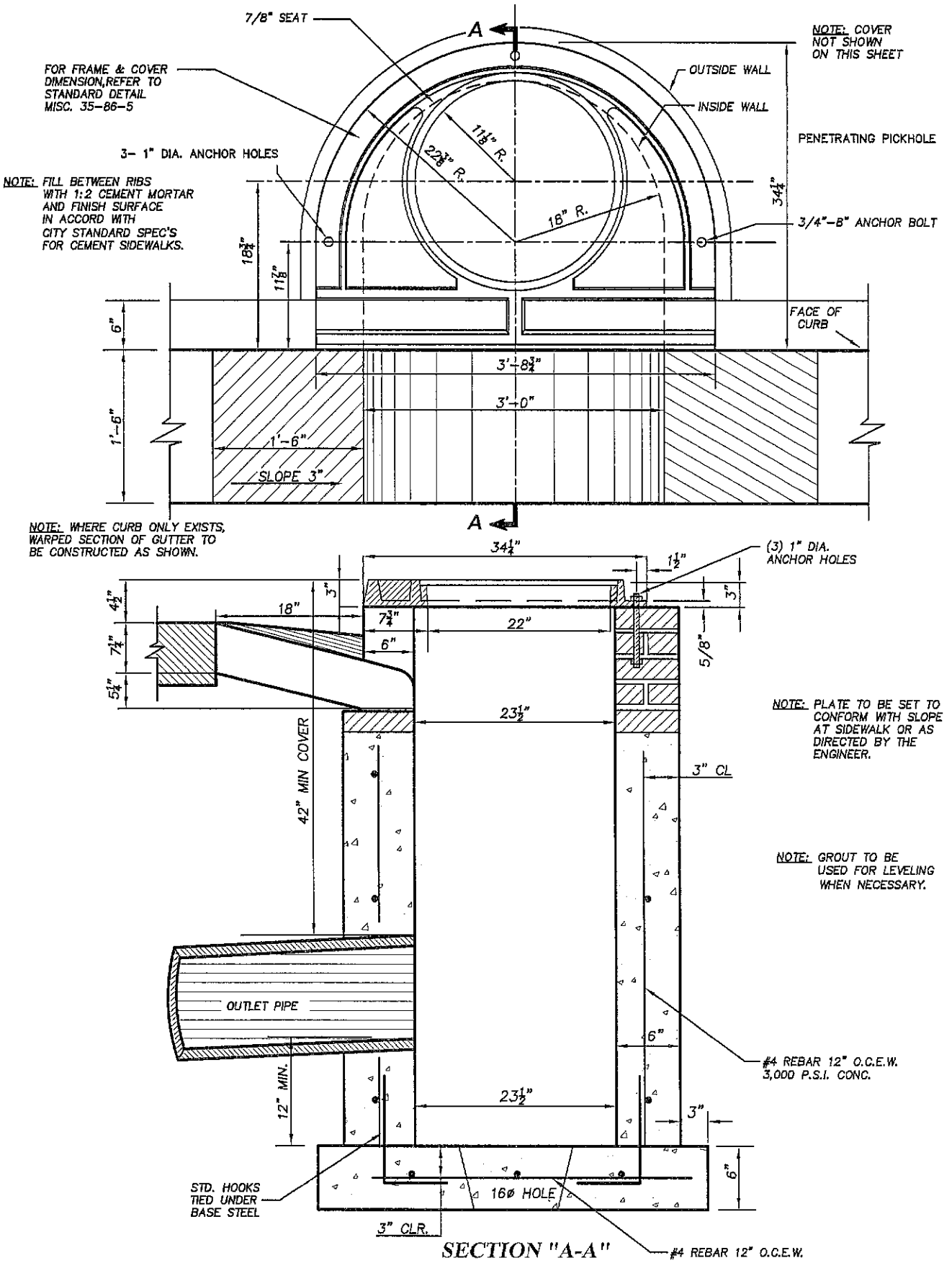






"V" TYPE CATCH BASIN FRAME & GRATE

	N.T.S.		NOV. 1970
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-86-3
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

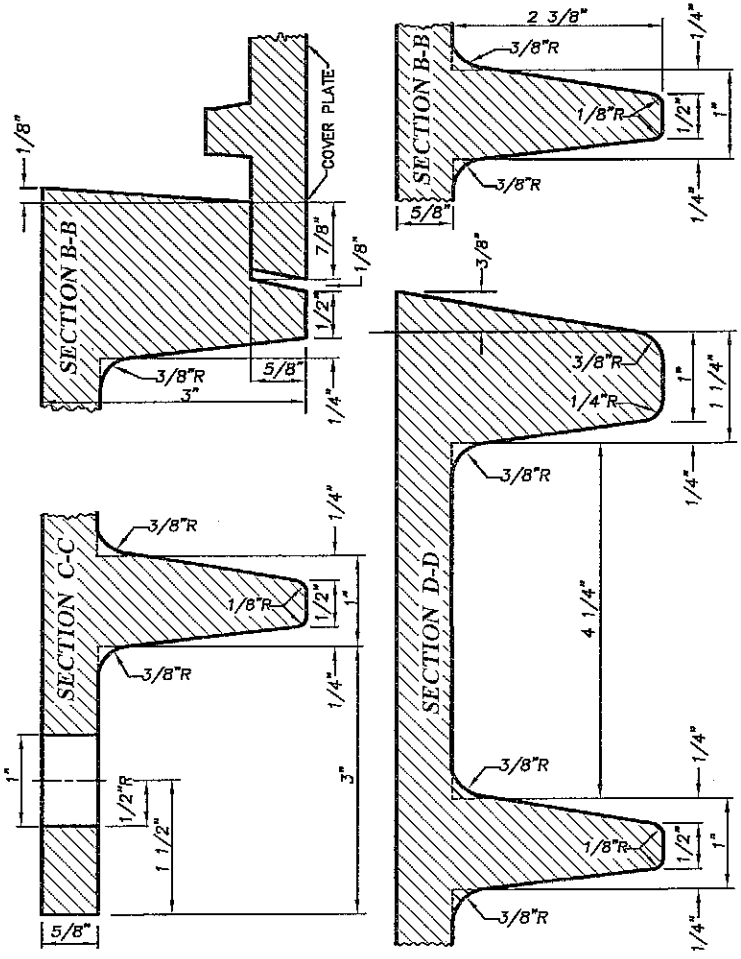


SECTION "A-A"

TYPE F-3 CATCH BASIN

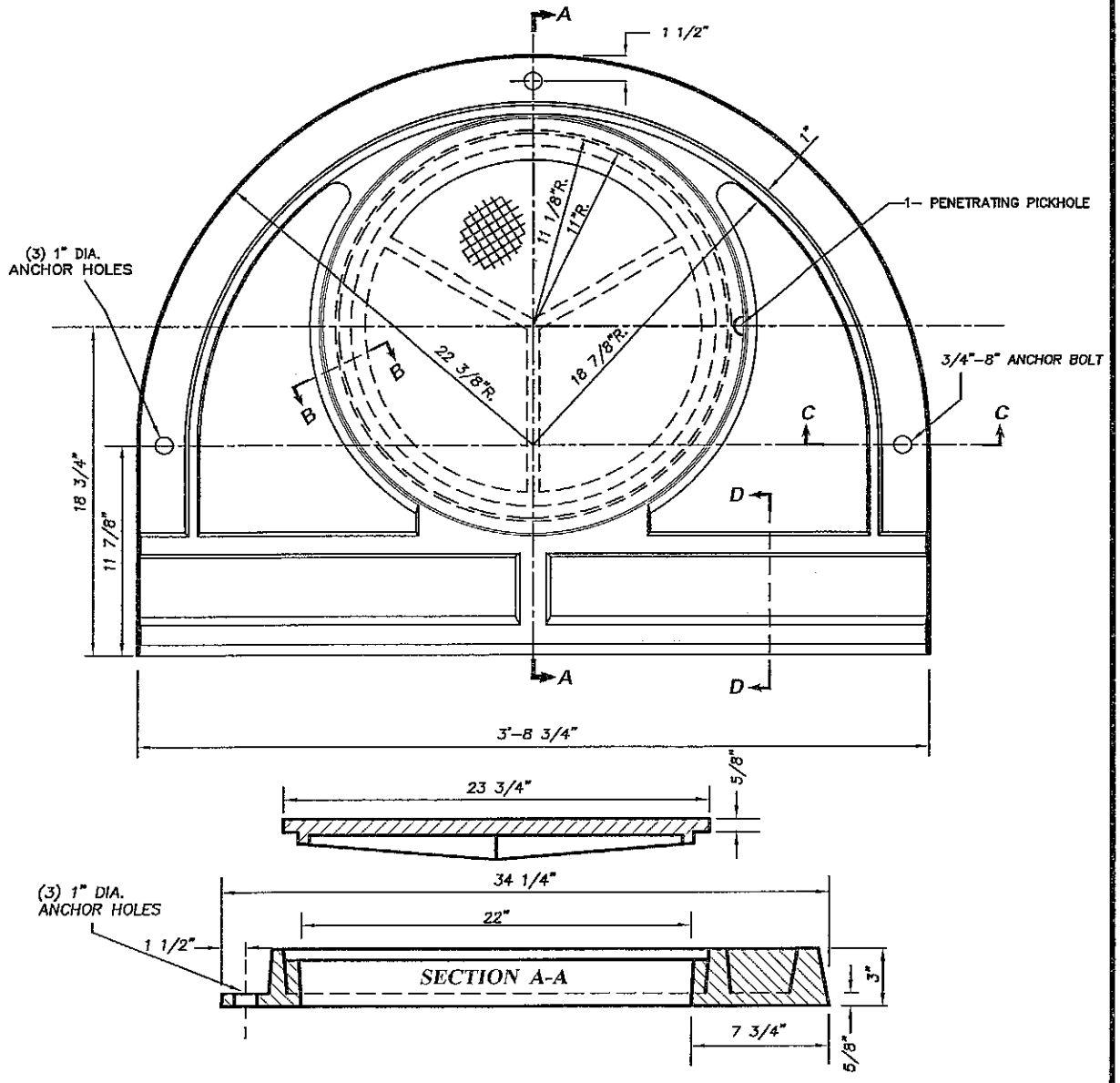
N.T.S. JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS		R-4	MISC. 35-86-4
CK:	CITY OF MIAMI, FLORIDA			Sheet 1 of 2



APPROX. WEIGHTS

FRAME: 320 LBS.
COVER: 80 LBS.



TYPE "F-3" CATCH BASIN FRAME & COVER

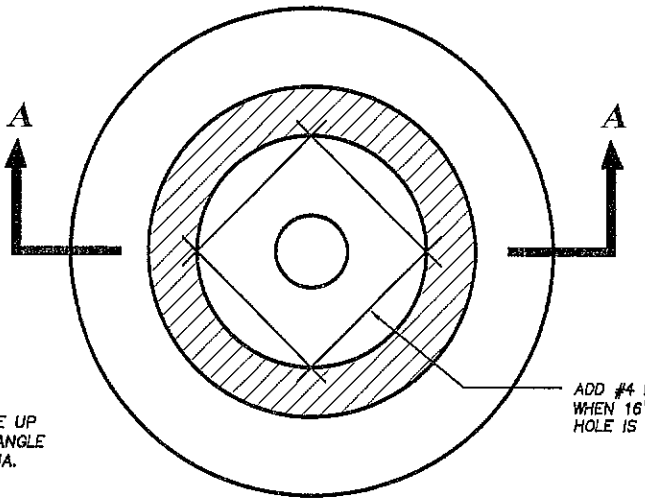
N.T.S.

JAN. 1954

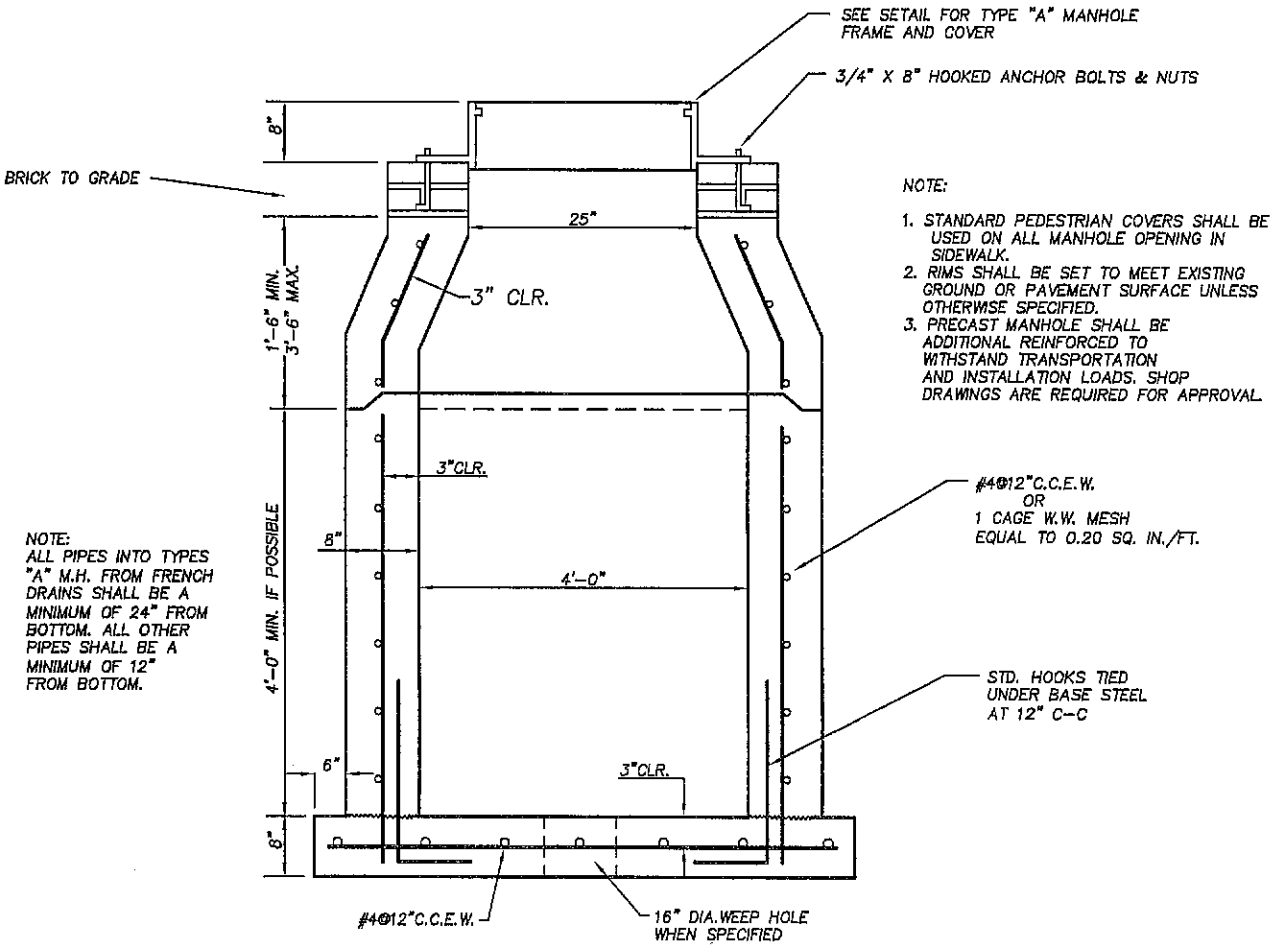
DR: MA	DEPARTMENT OF PUBLIC WORKS	R–4	MISC. 35–86–4
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 2

NOTE: MANHOLE USED FOR SANITARY SEWER SYSTEMS SHALL COMFORM WITH MIAMI-DADE COUNTY WATER & SEWER DEPT. STANDARDS.

NOTE: 1. ALL CONCRETE SHALL BE MIN. 4,000 PSI @ 28 DAYS.
2. THIS STANDARD FOR MANHOLES FROM 4' TO 12' IN DEPTH.



NOTE: FOR STRAIGHT PIPE UP TO 30" DIA. AND ANGLE PIPE UP TO 27" DIA.



NOTE:
1. STANDARD PEDESTRIAN COVERS SHALL BE USED ON ALL MANHOLE OPENING IN SIDEWALK.
2. RIMS SHALL BE SET TO MEET EXISTING GROUND OR PAVEMENT SURFACE UNLESS OTHERWISE SPECIFIED.
3. PRECAST MANHOLE SHALL BE ADDITIONAL REINFORCED TO WITHSTAND TRANSPORTATION AND INSTALLATION LOADS. SHOP DRAWINGS ARE REQUIRED FOR APPROVAL.

NOTE:
ALL PIPES INTO TYPES "A" M.H. FROM FRENCH DRAINS SHALL BE A MINIMUM OF 24" FROM BOTTOM. ALL OTHER PIPES SHALL BE A MINIMUM OF 12" FROM BOTTOM.

SECTION "A-A"

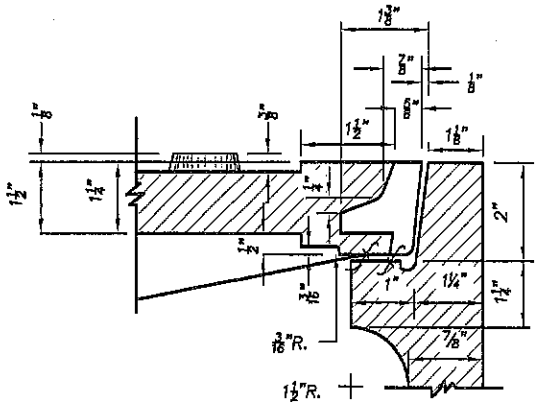
TYPE "A" MANHOLE
(FOR STORM WATER DRAINAGE SYSTEMS)

N.T.S. JAN. 1954

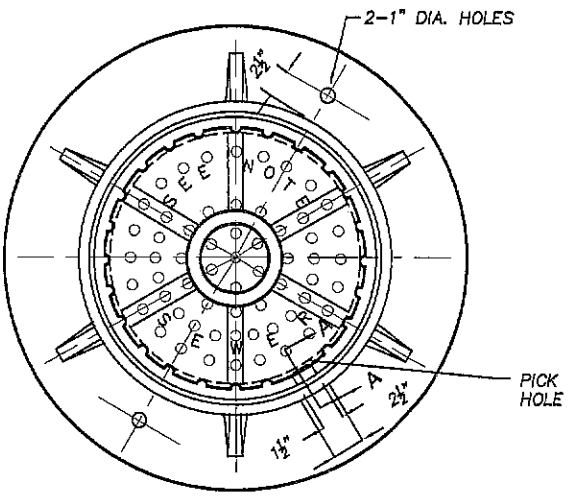
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-8	MISC. 35-86-8
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 2

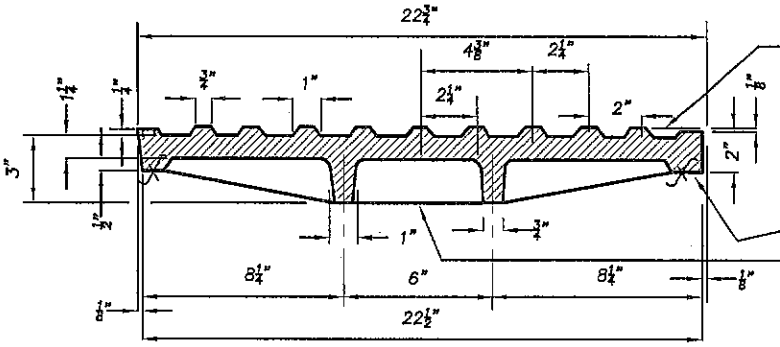
NOTE: LETTERS DESIGNATING TYPE OF SEWER,SANITARY OR STORM, TO BE ARRANGED ON AN ARC OF 6-1/2" RADIUS TO CENTER OF LETTERS. EACH LETTER TO BE 2" HIGH,3/8" DEEP, 1/4" TO 5/16" THICK & FLUSH WITH TOP OF BEADS, BEADS TO BE 3/8" HIGH WITH A RADIUS OF 1/2" AT THE BOTTOM & 3/8" AT TOP. PROVIDE 2 HOLES IN FLANGE OF FRAME AS SHOWN.

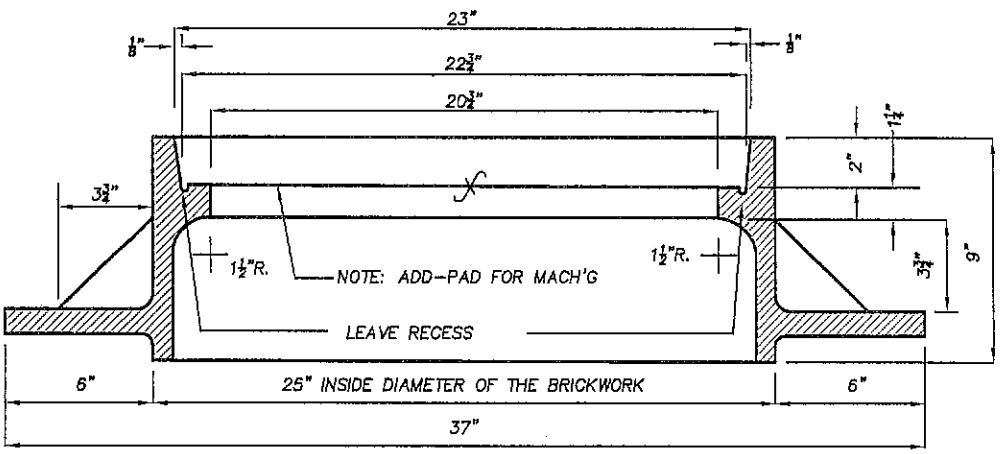
NOTE: ALL SEATING SURFACES OF MANHOLE CASTING ARE TO BE MACHINED WHERE SHOWN.
APPROX. WT. OF COVER = 165 LBS.
APPROX. WT. OF RING = 365 LBS.



SECTION "A-A"





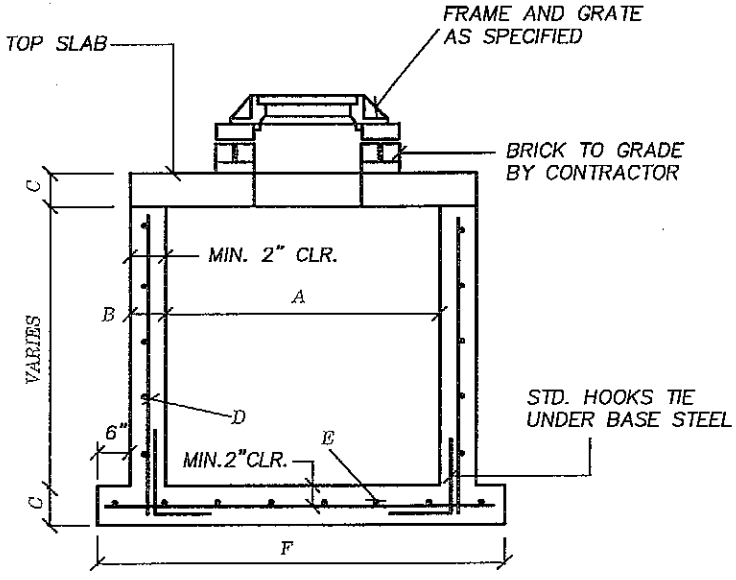


TYPE "A" MANHOLE FRAME & COVER

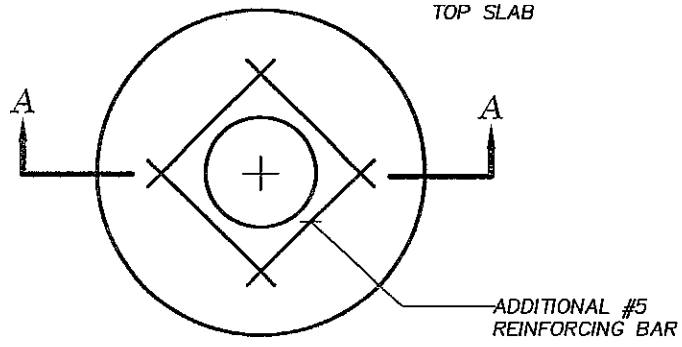
N.T.S. JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-86-8
CK:	CITY OF MIAMI, FLORIDA	5-64	Sheet 2 of 2

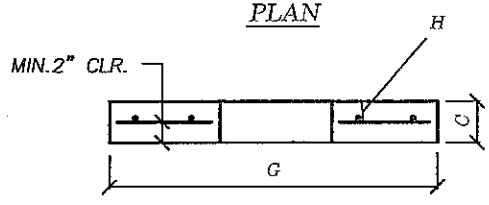
NOTE: CONC. STRENGTH SHALL BE 4000 PSI @ 28 DAYS
FOR STORM SEWERS CONSTRUCT 20" ø WEEP HOLE
AT BOTTOM WITH EXTRA #4's AT OPENING.
INSTALL LIFT HOOKS AS REQUIRED.
THIS STANDARD FOR MANHOLES TO A 12' MAX. DEPTH.



NOTE: ALL PIPES INTO D–4 THROUGH D–8 M.H. FROM TRENCH DRAINS SHALL BE A MINIMUM OF 19" FROM BOTTOM. ALL OTHER PIPES SHALL BE A MINIMUM 12" FROM BOTTOM.



PLAN



SECTION A-A

A	B	C	D	E	F	G	H
4'–0"ø	8"	8"	#4 AT 12" CCEW (0.20)	#4 AT 12" CCEW (0.20)	6'–4"ø	5'–4"ø	#4 AT 6" CCEW (0.39)
5'–0"ø	8"	8"	#5 AT 12" CCEW (0.31)	#5 AT 12" CCEW (0.31)	7'–4"ø	6'–4"ø	#5 AT 8" CCEW (0.46)
6'–0"ø	8"	10"	#5 AT 12" CCEW (0.31)	#5 AT 6" CCEW (0.61)	8'–4"ø	7'–4"ø	#5 AT 6" CCEW (0.61)
7'–0"ø	8"	10"	#5 AT 12" CCEW (0.31)	#5 AT 6" CCEW (0.61)	9'–4"ø	8'–4"ø	#5 AT 6" CCEW (0.61)
8'–0"ø	10"	10"	4x4–W4xW4(2 LAYERS) AND #4@12 CCEW (0.42)	#5 AT 6" CCEW (0.61)	10'–8"ø	9'–8"ø	#5 AT 6" CCEW (0.61)

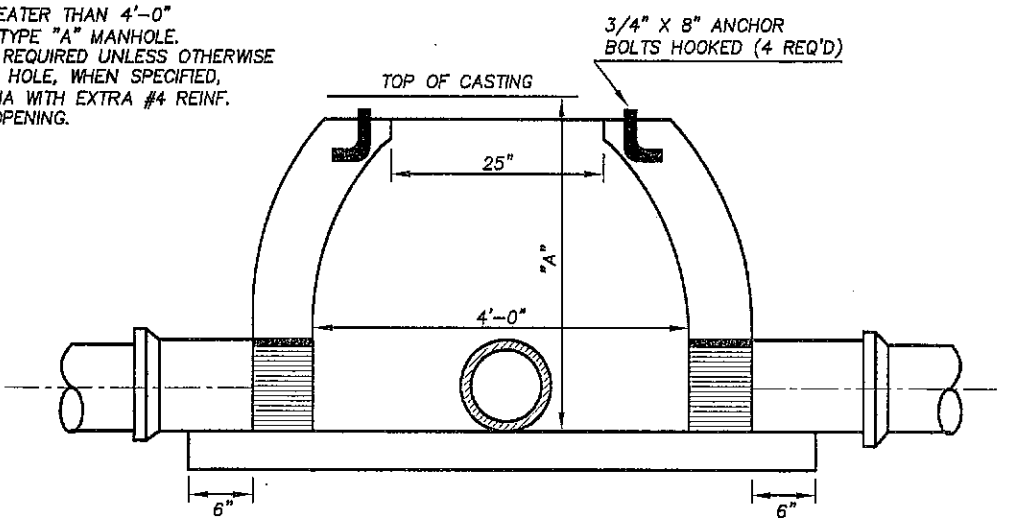
D-4 THRU D-8 MANHOLE
(FOR STORM WATER DRAINAGE SYSTEMS)

N.T.S.

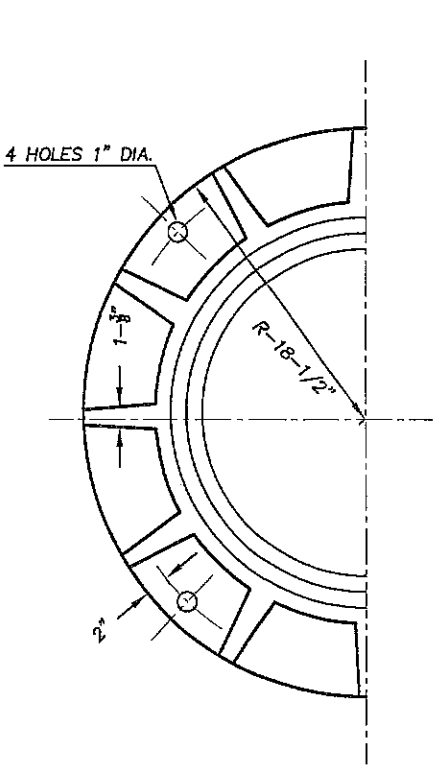
JAN. 1980

DR: MA	DEPARTMENT OF PUBLIC WORKS	R–1	MISC. 35–86–10
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

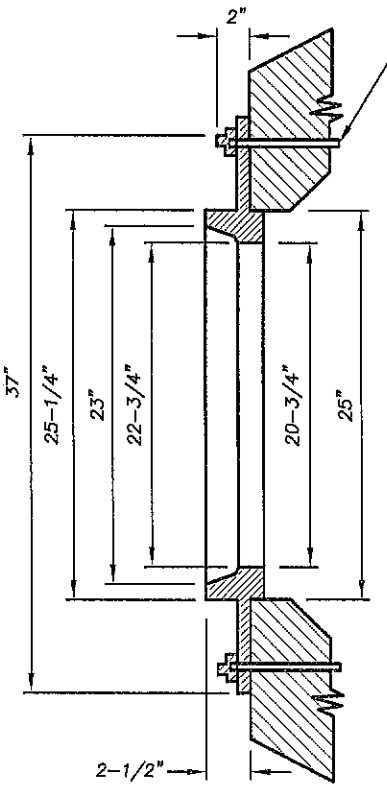
NOTES:
SEAT FOR FRAME CASTING TO BE 2-1/2" BELOW STREET GRADE. ALL SPECIFICATIONS REGARDING MANHOLE DETAILS ARE THE SAME AS FOR STANDARD TYPE "A" MANHOLE. WHEN "A" IS GREATER THAN 4'-0" USE STANDARD TYPE "A" MANHOLE. A SUMP IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED. WEEP HOLE, WHEN SPECIFIED, SHALL BE 16" DIA WITH EXTRA #4 REINF. BARS AROUND OPENING.

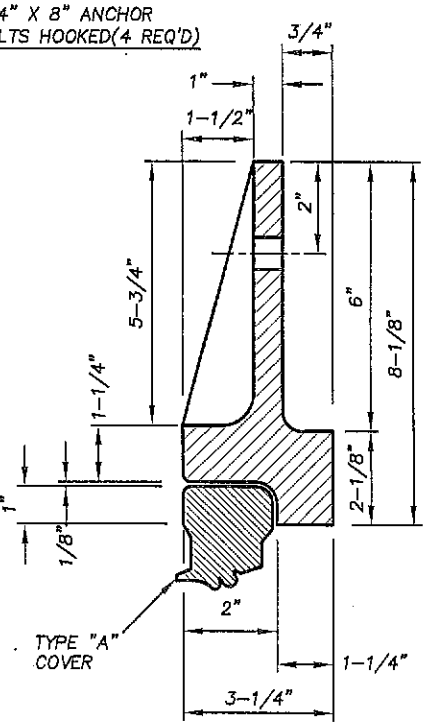


SECTION



FRAME





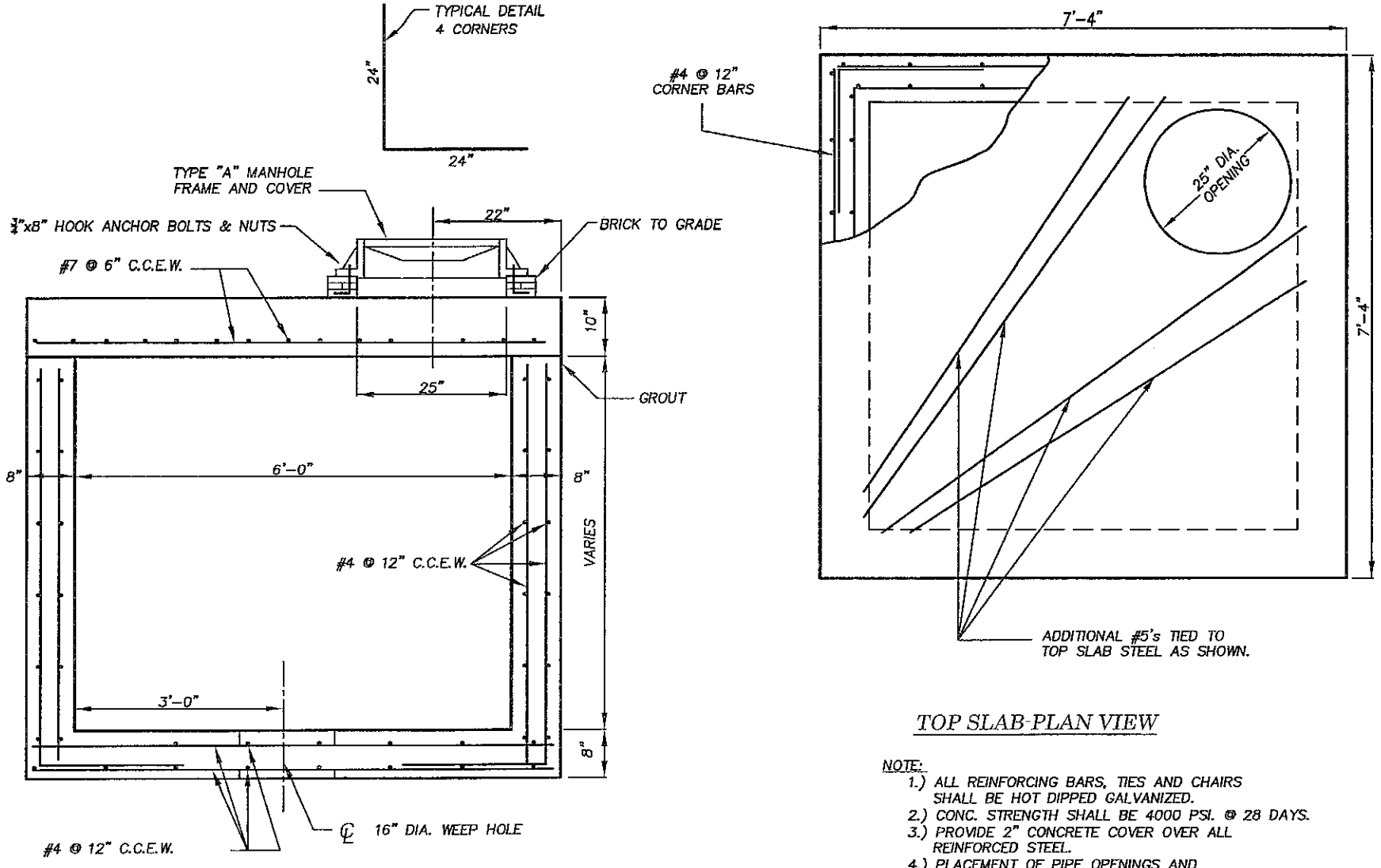
FRAME ENLARGED

DETAILS - STANDARD SHALLOW MANHOLE (FOR STORM WATER DRAINAGE SYSTEMS)

N.T.S.

JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-86-11
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



NOTE:

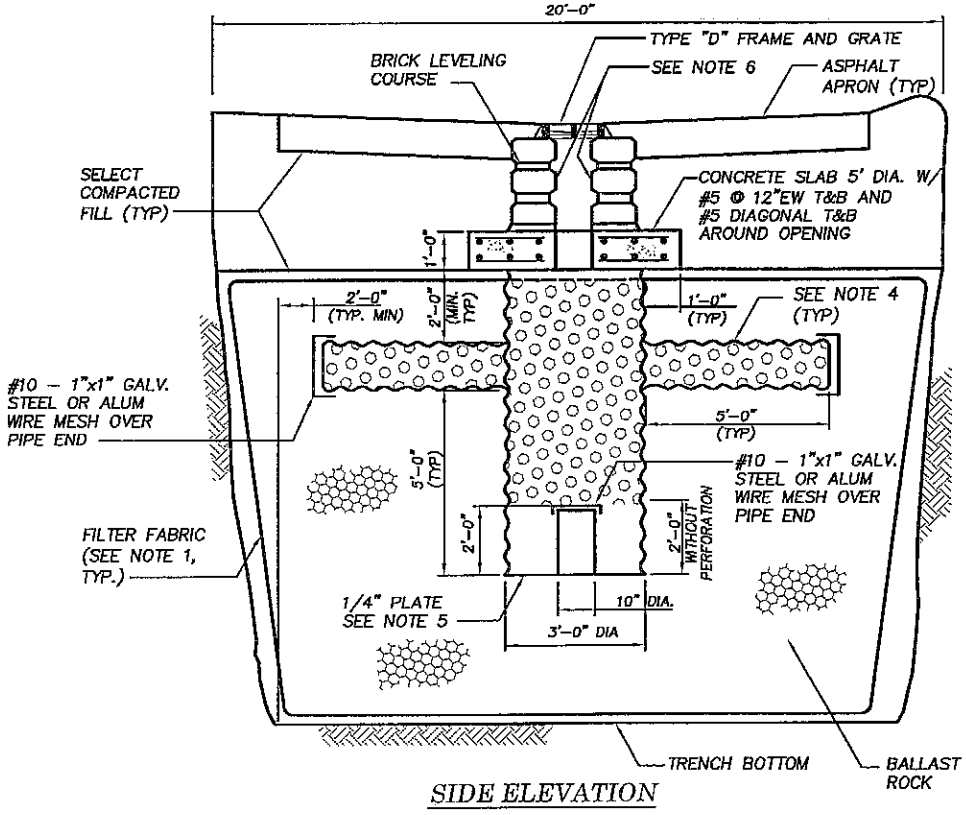
1.) ALL REINFORCING BARS, TIES AND CHAIRS SHALL BE HOT DIPPED GALVANIZED.
2.) CONC. STRENGTH SHALL BE 4000 PSI. @ 28 DAYS.
3.) PROVIDE 2" CONCRETE COVER OVER ALL REINFORCED STEEL.
4.) PLACEMENT OF PIPE OPENINGS AND BOTTOM ELEVATION OF STRUCTURE AS SPECIFIED ON CONSTRUCTION PLANS.

BOX TYPE MANHOLE
(FOR STORM WATER DRAINAGE SYSTEMS)

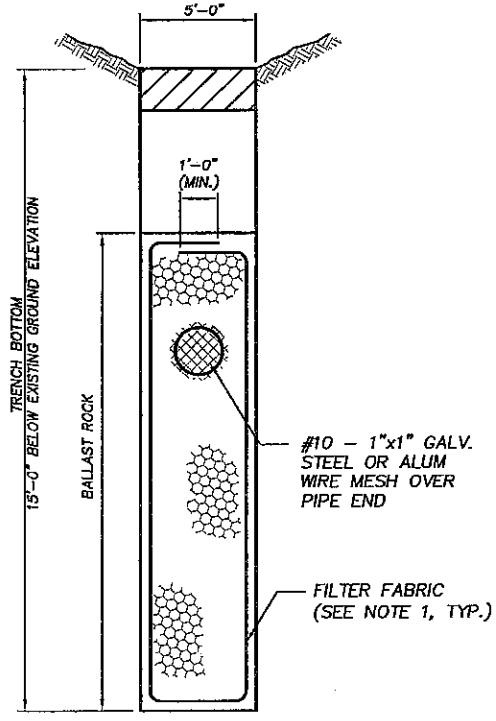
N.T.S.

MAY 1986

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 35-86-12
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



SIDE ELEVATION



END SECTION

NOTES:

1. 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 C.M.P. 12 GAUGE GALVANIZED STEEL 3"x1" OR 2 2/3" x 1/2" CORRUGATION, OR 36 HELICAL ALUMINUM C.M.P. WITH + = 0.0105 AND 2 2/3" x 1/2" CORRUGATION.
3. CATCH BASIN SLAB TO BEAR ON NATURAL ROCK OR ON A LAYER OF 2' MINIMUM BALLAST ROCK.
4. 15" PERFORATED CORRUGATED METAL PIPE STUB 16 GAGE GALVANIZED STEEL OR 15" C.M.P. STUB 1= .060" ALUMINUM PIPE.
5. BOTTOM PLATE TO BE GALVANIZED STEEL COATED BOTH SIDE OR 1/4" ALUMINUM PLATE.
6. BRICK MASONRY CONSTRUCTION TO BE PLASTERED WITH 1/2" MORTAR INSIDE AND OUTSIDE.
7. BOTTOM OF EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.

SUMP INLET DETAIL

N.T.S.

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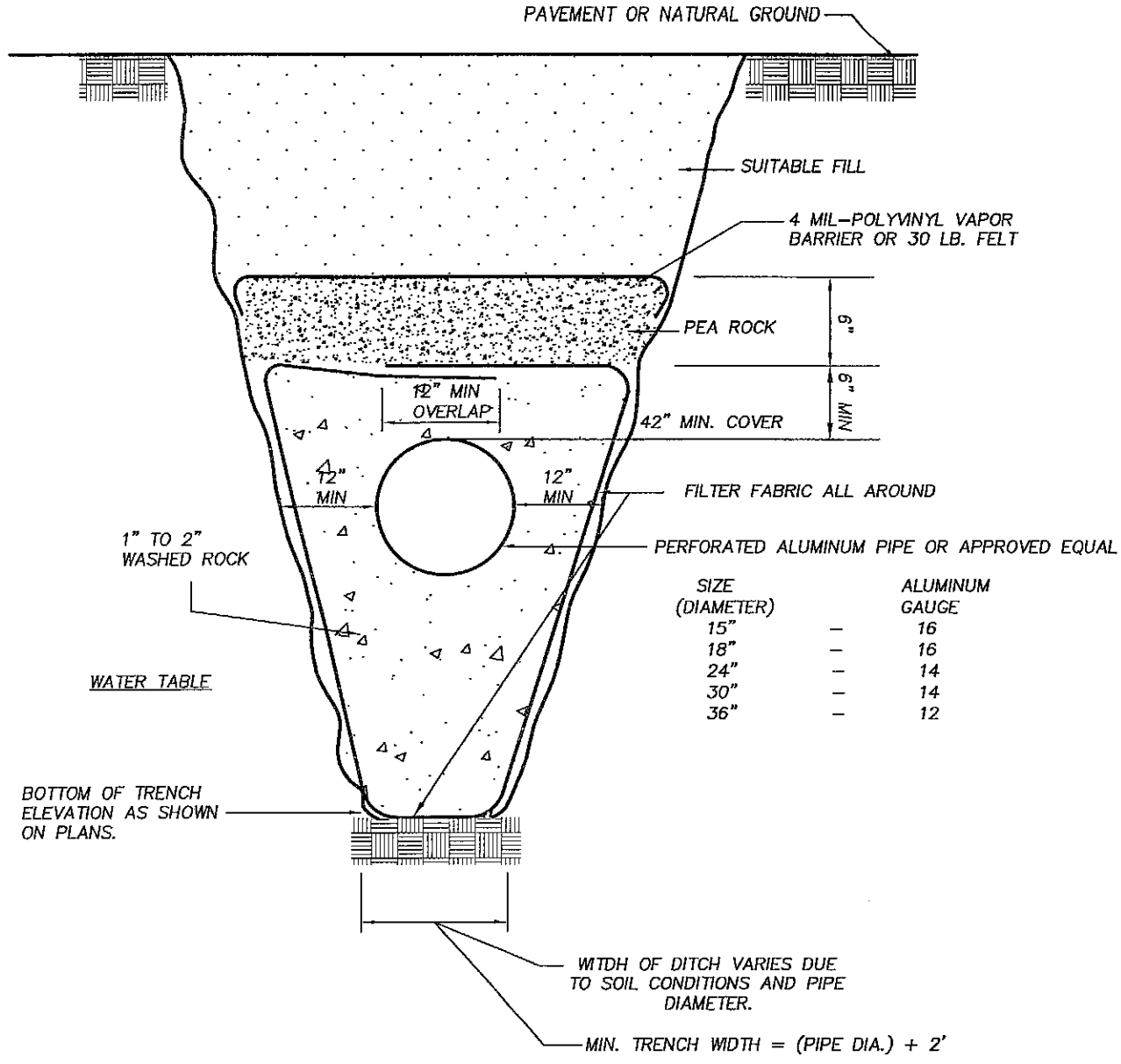
NOTES:
1. 42" MIN. COVER OVER PIPE UNLESS OTHERWISE SHOWN ON THE PLANS.
2. FILTER FABRIC SHALL ENCASE ENTIRE WASHED ROCK ENVELOPE.
3. BOTTOM OF TRENCH TO BE EXCAVATED TO ELEVATION AS SHOWN ON THE PLANS.
4. WASHED ROCK TO EXTEND TO BOTTOM OF TRENCH.
5. PERFORATED PIPE TO BE CONSTRUCTED AT INVERT ELEVATION SHOWN ON PLANS.



SIZE (DIAMETER)		ALUMINUM GAUGE
15"	–	16
18"	–	16
24"	–	14
30"	–	14
36"	–	12

TYPICAL FRENCH DRAIN CROSS SECTION

N.T.S.

OCT. 1985

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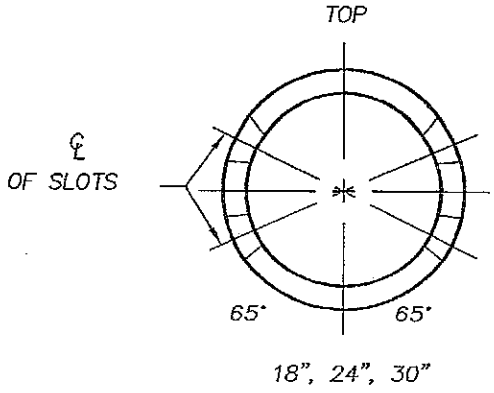
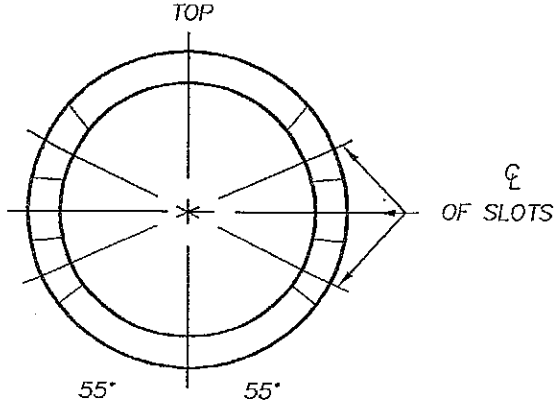
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 4

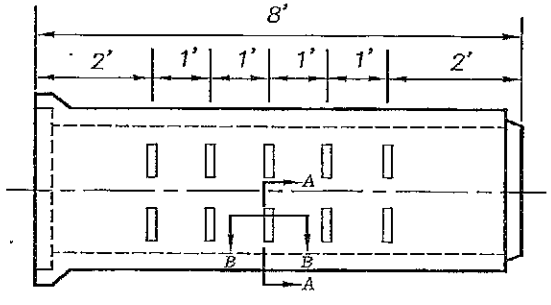
OPTION "A"
CAST SLOT



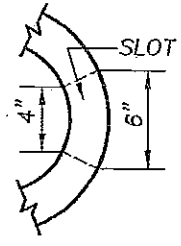
18", 24", 30"



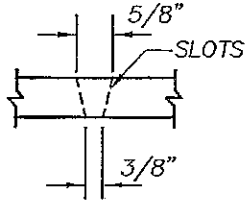
36", 42", 48"



SIDE VIEW



SECTION "AA"



SECTION "BB"

GENERAL NOTES

1. Concrete pipes shall meet the requirements of ASTM C76–70.
2. Concrete pipes shall be placed with the slots positioned on the side.
3. Alignment joints are standard. Gasketed joints required for 36" and larger diameter pipe. Gaskets optional for 30" diameter and below.
4. The contractor may summit other methods of providing slots having equal or greater area of opening for approval by the Engineer.
5. Filter fabric material is required. Joints shall lap a minimum of 1 foot. Filter fabric shall not be placed on ditch bottom.
6. The Typical French Drain cross section and profile shall apply to the slotted concrete pipe French Drain.

SLOTTED CONCRETE PIPE FRENCH DRAIN

N.T.S.

FEB. 1987

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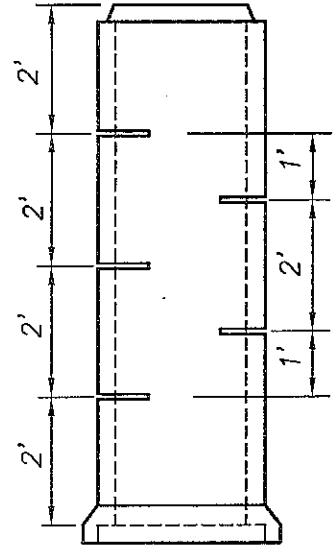
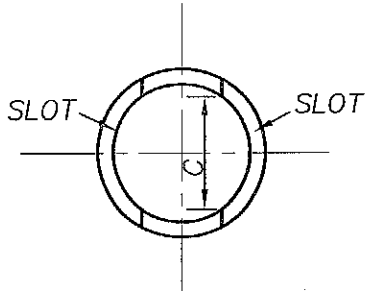
OPTION "B"
SAWCUT SLOT

TOP VIEW

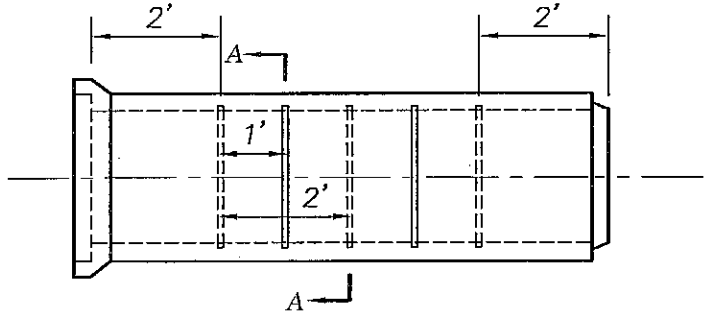


PIPE SIZE	SLOT CUT OPENING C	
	MIN.	MAX.
18"	12"	14"
24"	16"	18"
30"	16"	18"
36"	22"	24"
42"	22"	24"
48"	22"	24"

GENERAL NOTES
(SEE SHEET NO. 1)



SECTION "A-A"



SIDE VIEW

SLOTTED CONCRETE PIPE FRENCH DRAIN

N.T.S.

SEPT. 1987

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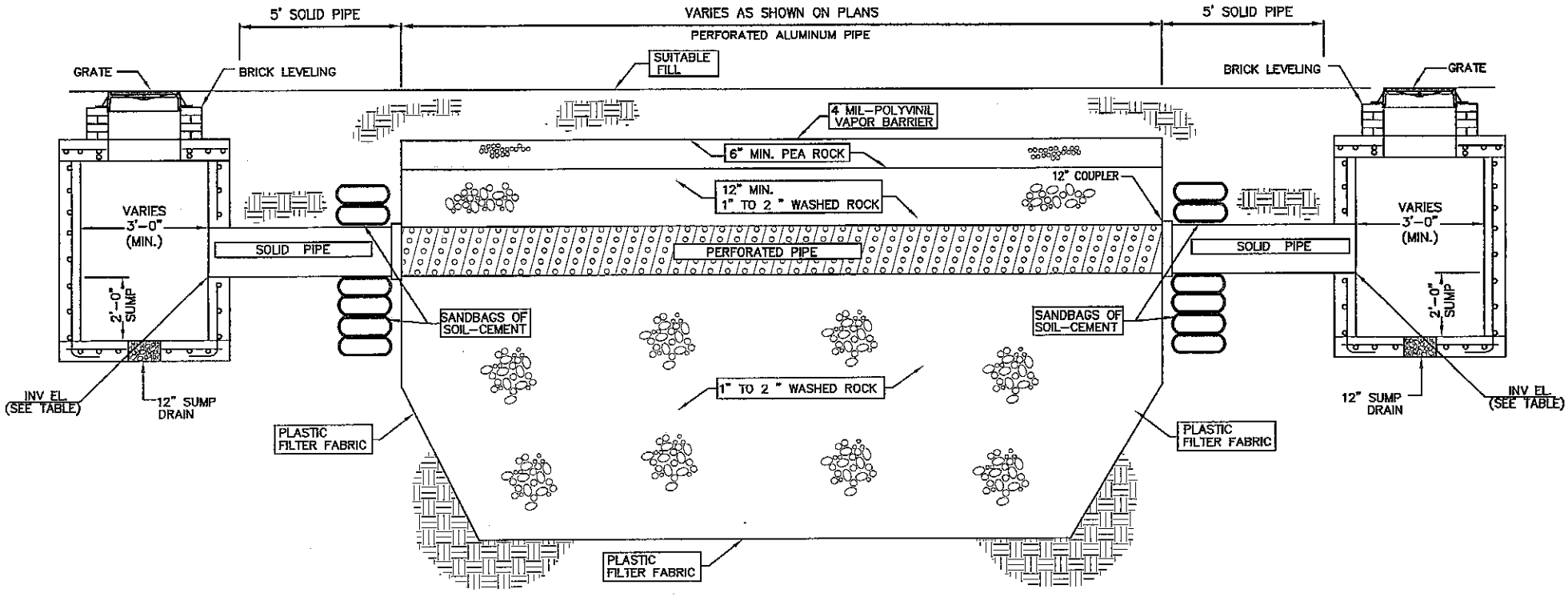
CK:	CITY OF MIAMI, FLORIDA		Sheet 3 of 4



TYPICAL TWO BOXES EXFILTRATION TRENCH
LONGITUDINAL SECTION
N.T.S

NOTES

1. PLASTIC FILTER (AT EA. SIDE, TOP, BOTTOM) 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 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 SET PER W.C. 2.2 (AVG. OCTOBER GROUND WATER LEVEL).

TYPICAL FRENCH DRAIN PROFILE

N.T.S.

OCT. 1985

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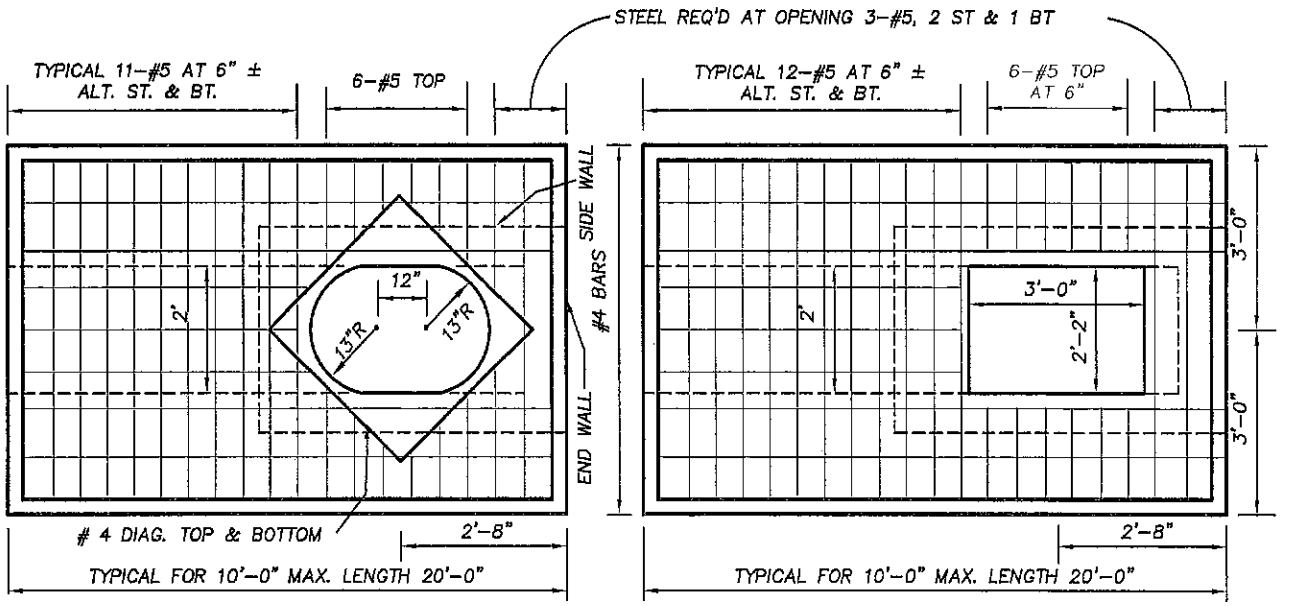
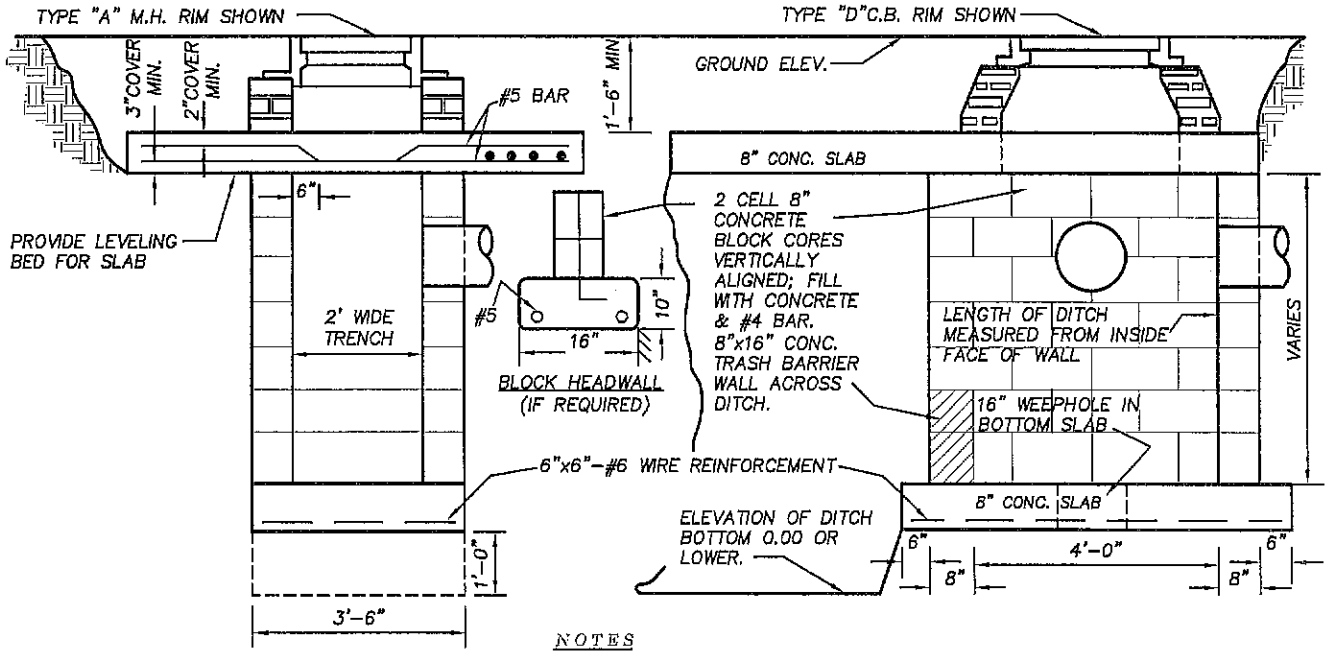


SLAB OPENING FOR TYPE "A" M.H.

SLAB OPENING FOR TYPE "D" C.B.



NOTES

1. MANHOLE OR CATCH BASIN OPENING SHALL BE CENTERED OVER STORM LINES ENTERING DITCH
2. CONCRETE SLABS ARE TO BE CONSTRUCTED OF HIGH EARLY STRENGTH CONCRETE (3000 P.S.I. IN 7 DAYS).
3. ALL DITCHES WILL HAVE A MANHOLE OR CATCH BASIN,BOTTOM SLAB AND TRASH BARRIER AT BOTH ENDS.
4. MAXIMUM LENGTH OF SLABS SHALL BE 20'-0" & 1/2" EXPANSION MATERIAL IS TO BE PLACED BETWEEN SLABS.
5. CONTRACTOR SHALL POUR SLAB IN PLACE. IN THE EVENT PRECAST SLABS ARE PERMITTED, SLABS SHALL NOT BE POURED UNTIL CONTRACTOR HAS ASCERTAINED IF ENTIRE TRENCH IS SUITABLE FOR DITCH.
6. WHEN MATERIAL AT DITCH EDGE IS UNSUITABLE, VOIDS SHALL BE FILLED WITH CONCRETE TO SLAB GRADE OR BUILT UP BY USE OF "BLOCK HEADWALL" AS REQUIRED BY ENGINEER.
7. END WALL AND SIDE WALLS REQUIRED ONLY WHEN SPECIFIED OR WHEN LATERAL ENTERS DITCH.

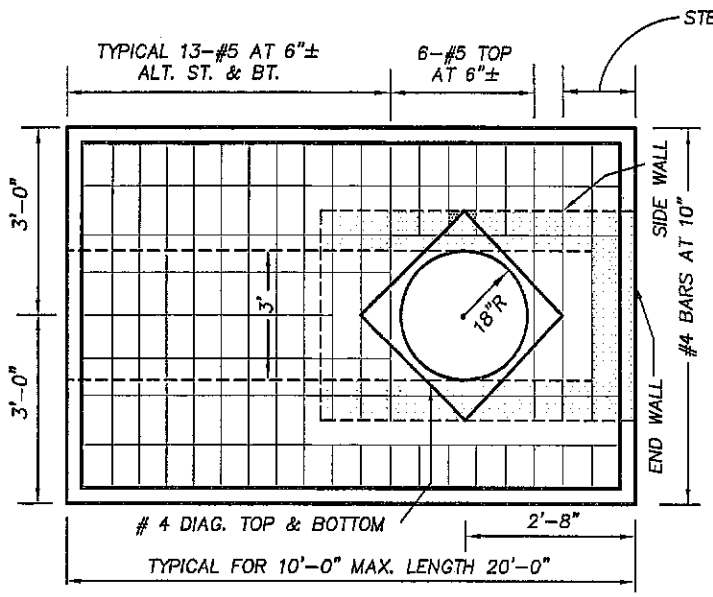
TWO FT. WIDE COVERED DITCH

FOR REFERENCE ONLY

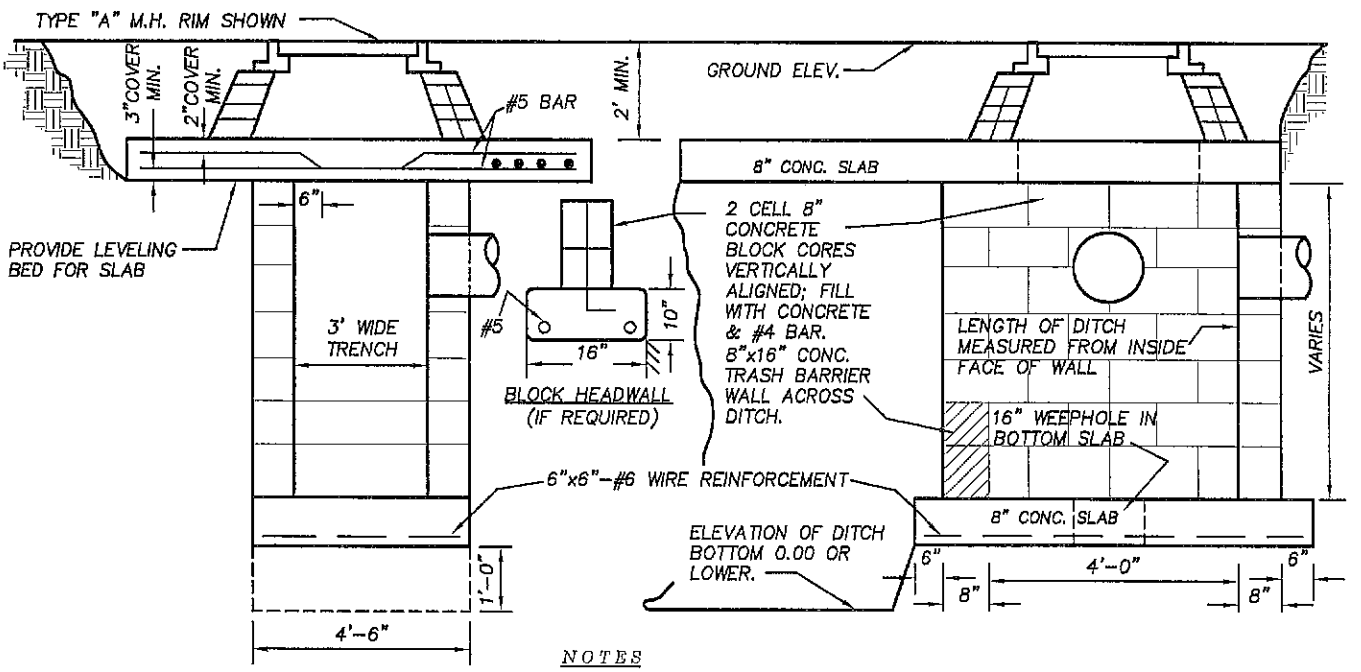
N.T.S.

APRIL, 1965

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-3	MISC. 35-86-28
CK:	CITY OF MIAMI, FLORIDA	1-80	Sheet 1 of 3



SLAB OPENING FOR TYPE "A" M.H.



NOTES

1. MANHOLE OR CATCH BASIN OPENING SHALL BE CENTERED OVER STORM LINES ENTERING DITCH
2. CONCRETE SLABS ARE TO BE CONSTRUCTED OF HIGH EARLY STRENGTH CONCRETE (3000 P.S.I. IN 7 DAYS).
3. ALL DITCHES WILL HAVE A MANHOLE OR CATCH BASIN,BOTTOM SLAB AND TRASH BARRIER AT BOTH ENDS.
4. MAXIMUM LENGTH OF SLABS SHALL BE 20'-0" & 1/2" EXPANSION MATERIAL IS TO BE PLACED BETWEEN SLABS.
5. CONTRACTOR SHALL POUR SLAB IN PLACE. IN THE EVENT PRECAST SLABS ARE PERMITTED, SLABS SHALL NOT BE POURED UNTIL CONTRACTOR HAS ASCERTAINED IF ENTIRE TRENCH IS SUITABLE FOR DITCH.
6. WHEN MATERIAL AT DITCH EDGE IS UNSUITABLE, VOIDS SHALL BE FILLED WITH CONCRETE TO SLAB GRADE OR BUILT UP BY USE OF "BLOCK HEADWALL" AS REQUIRED BY ENGINEER.
7. END WALL AND SIDE WALLS REQUIRED ONLY WHEN SPECIFIED OR WHEN LATERAL ENTERS DITCH.

THREE FT. WIDE COVERED DITCH

FOR REFERENCE ONLY

N.T.S.

JUNE, 1968

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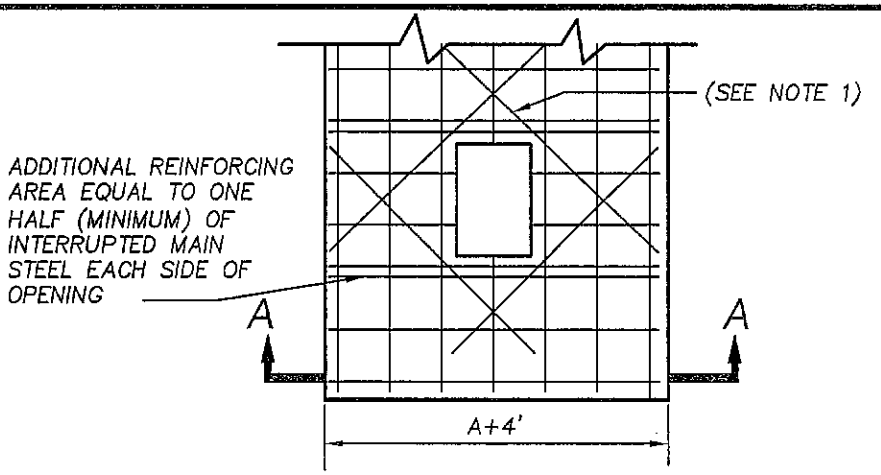
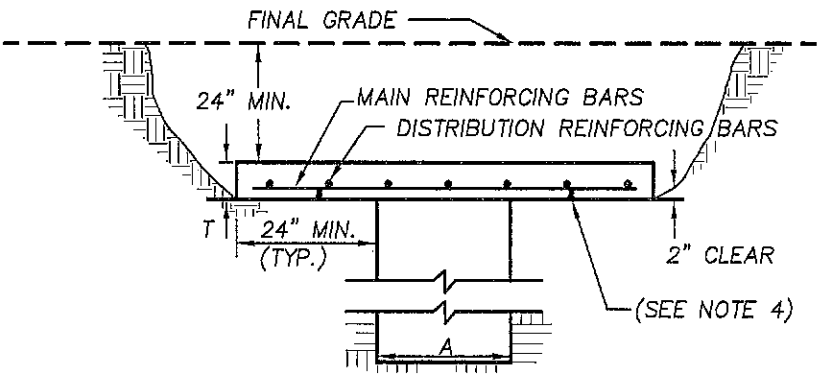


SLAB REINFORCEMENT



SECTION "A-A"

REINFORCING SCHEDULE

SPAN	REINFORCEMENT		MIN.
A	MAIN	DISTRIBUTION	T
24"	#5 @ 12"	#3 @ 12"	6"
36"	#5 @ 12"	#4 @ 12"	8"
60"	#7 @ 9"	#5 @ 9"	8"

NOTES:

1.) WHERE AN OPENING IS TO BE PROVIDED IN THE SLAB, #5 DIAGONAL STEEL SHALL BE PLACED ON TOP OF DISTRIBUTION REINFORCEMENT, AS SHOWN.
2.) LAPS FOR DISTRIBUTION STEEL SHALL BE 1'-0"
3.) REINFORCING BARS TO BE GRADE 60 STEEL ASTM A615-68. CONCRETE TO BE A MINIMUM OF 4000 P.S.I. AT 28 DAYS.
4.) PROVIDE HIGH CHAIRS TO MAINTAIN A 2-INCH COVER OVER REINFORCEMENT.

OPTIONAL COVERED DITCH SLAB DETAIL

FOR REFERENCE ONLY

N.T.S.

FEB. 1987

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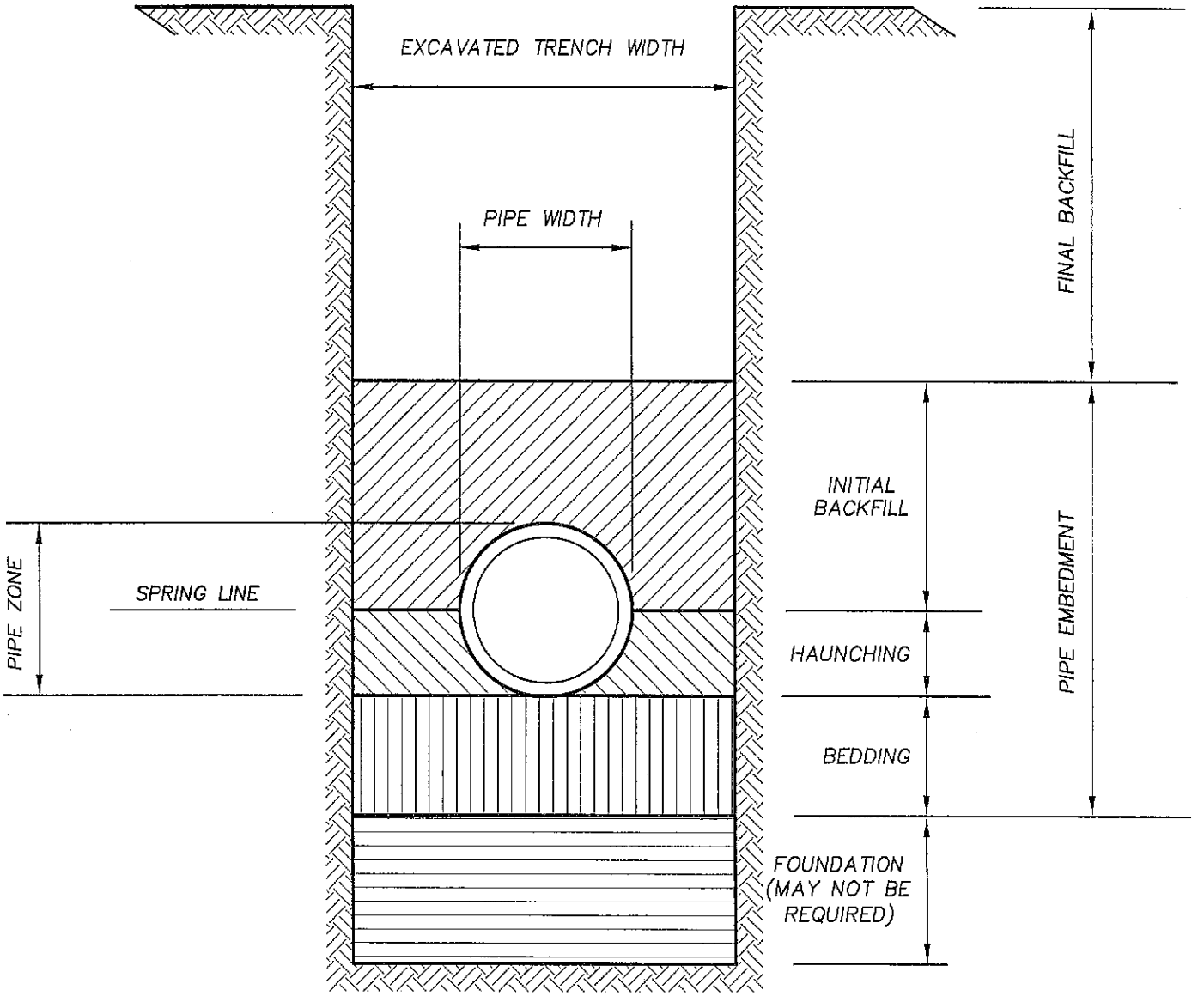

P.V.C. PIPE EMBEDMENT DETAIL

N.T.S.

SEPT. 1989

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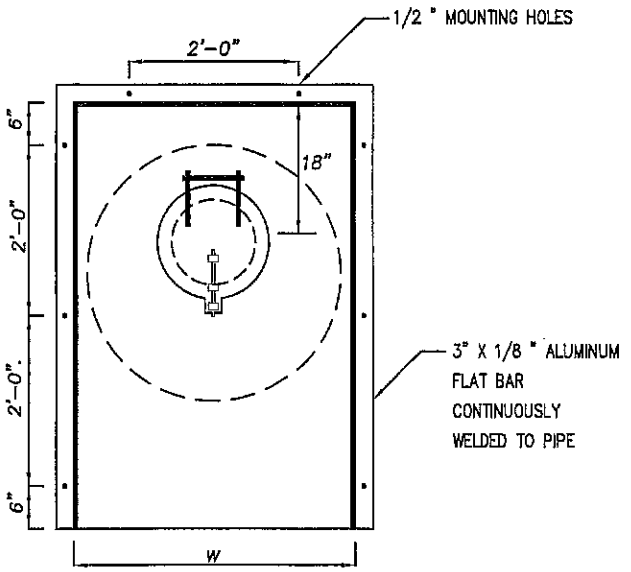
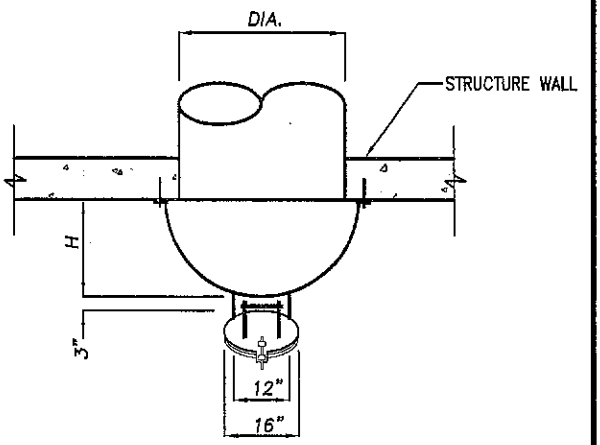
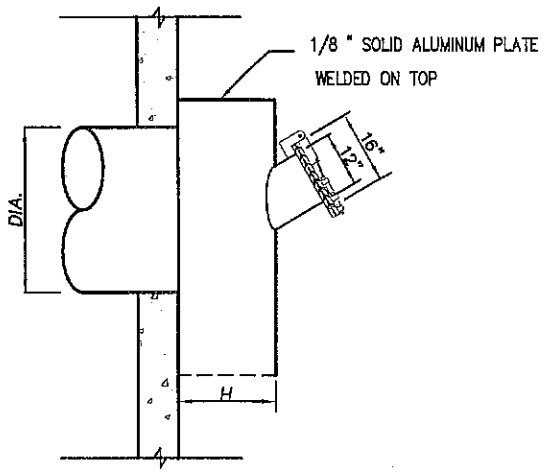


ELEVATION VIEW



PLAN VIEW



SIDE ELEVATION VIEW

TABLE OF DIMENSIONS		
PIPE DIA.	*H*	*W*
15"	10"	21"
18"	12"	24"
24"	16"	30"
30"	20"	36"
36"	24"	42"

STANDARD BAFFLE DETAILS

N.T.S. *APR. 2004*

DR: MA	*DEPARTMENT OF PUBLIC WORKS*		*MISC. 35-86-39*
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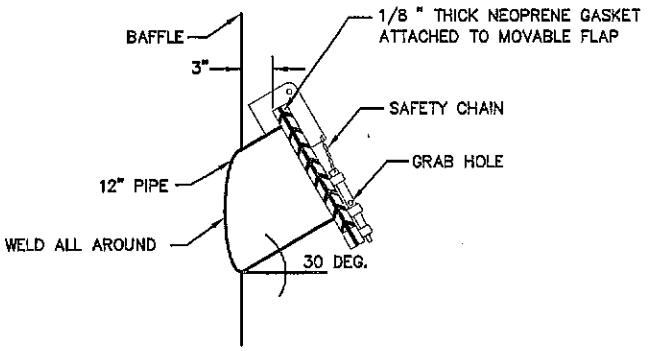
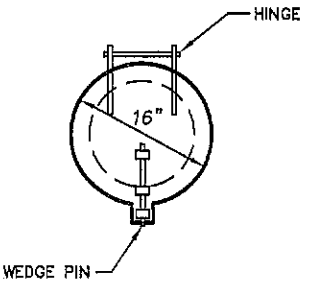
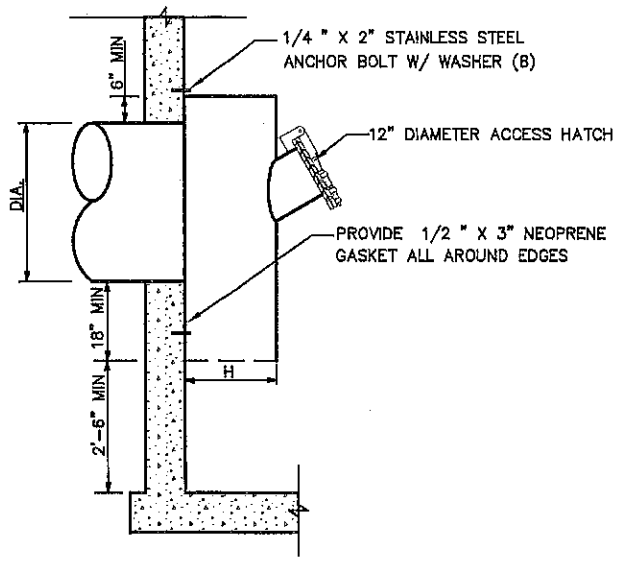
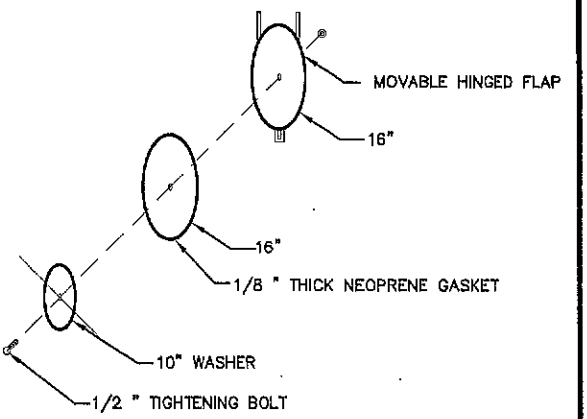




ACCESS HATCH DETAIL



BAFFLE INSTALLATION DETAIL



1/8" THICK NEOPRENE GASKET

STANDARD BAFFLE DETAILS

N.T.S. APR. 2004

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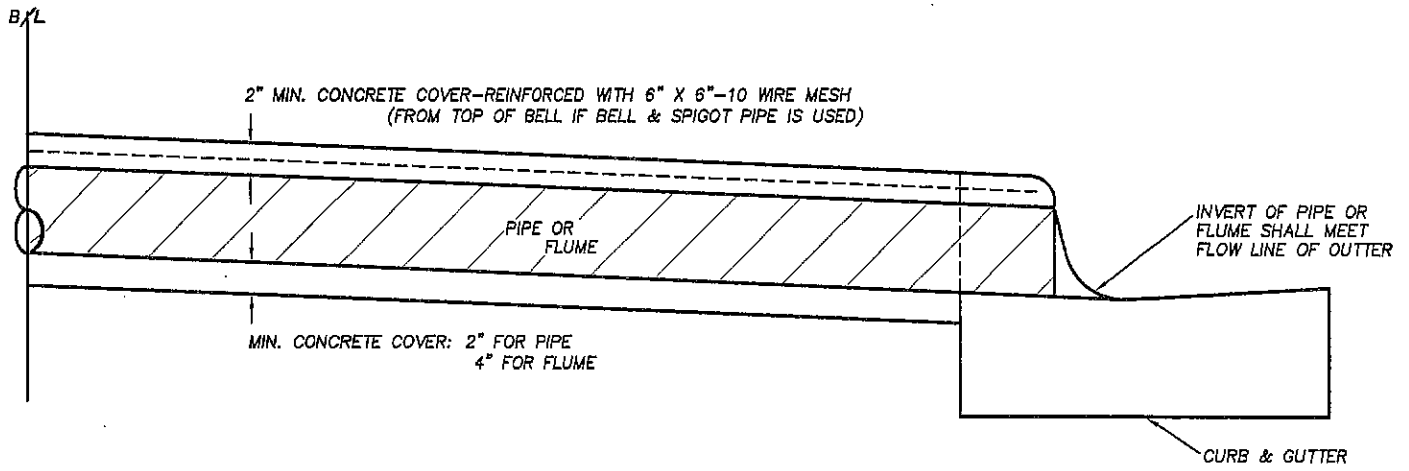
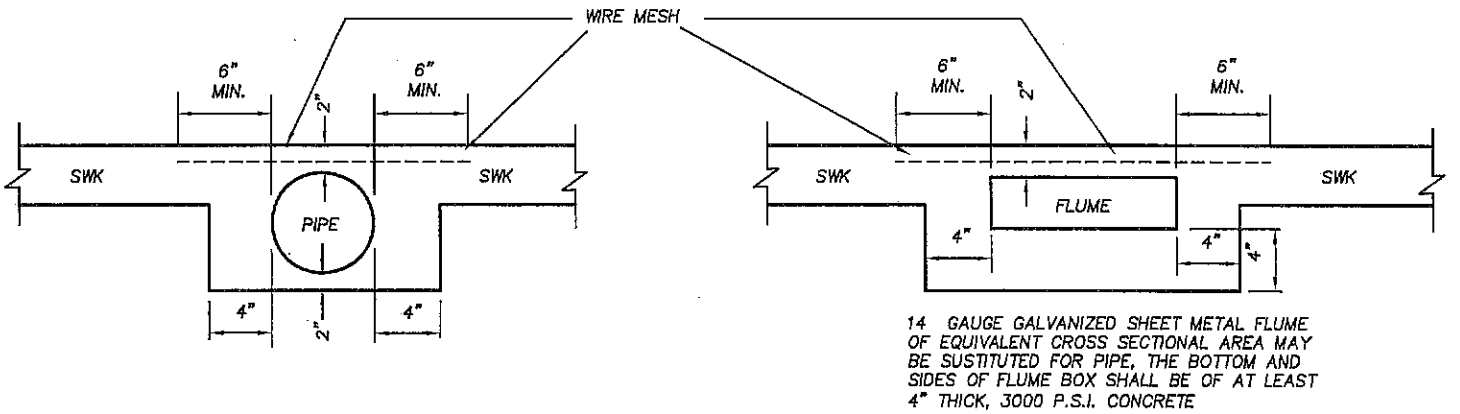
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 2





14 GAUGE GALVANIZED SHEET METAL FLUME OF EQUIVALENT CROSS SECTIONAL AREA MAY BE SUSTITUTED FOR PIPE, THE BOTTOM AND SIDES OF FLUME BOX SHALL BE OF AT LEAST 4" THICK, 3000 P.S.I. CONCRETE

FLUME CROSS-SECTIONAL AREA EQUIVALENT TO PIPE SIZES

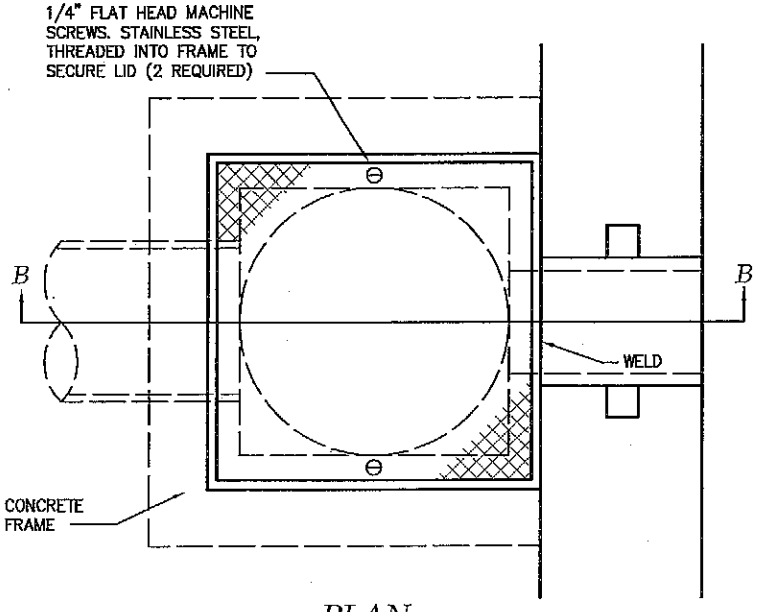
DIAMETER OF PIPE	AREA IN INCHES
2"	3.141
3"	7.068
4"	12.566
5"	19.635
6"	28.269
8"	50.265
10"	78.54
12"	113.09
14"	153.93 (NOT MADE IN C.I. OR T.C.)

RAINWATER DISCHARGE FLUME DETAIL

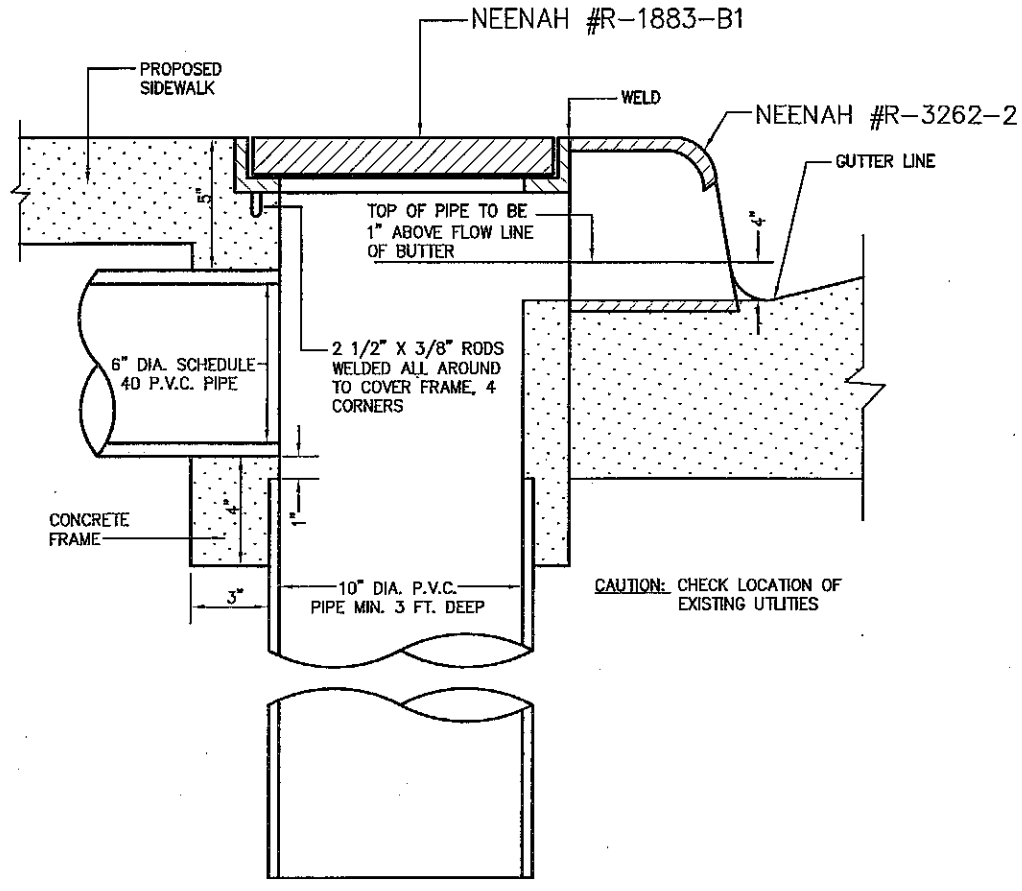
N.T.S.

JAN 1954

DR: MA	DEPARTMENT OF ENGINEERING	R-1	MISC. 35-86-44
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 2



PLAN



SECTION "B-B"

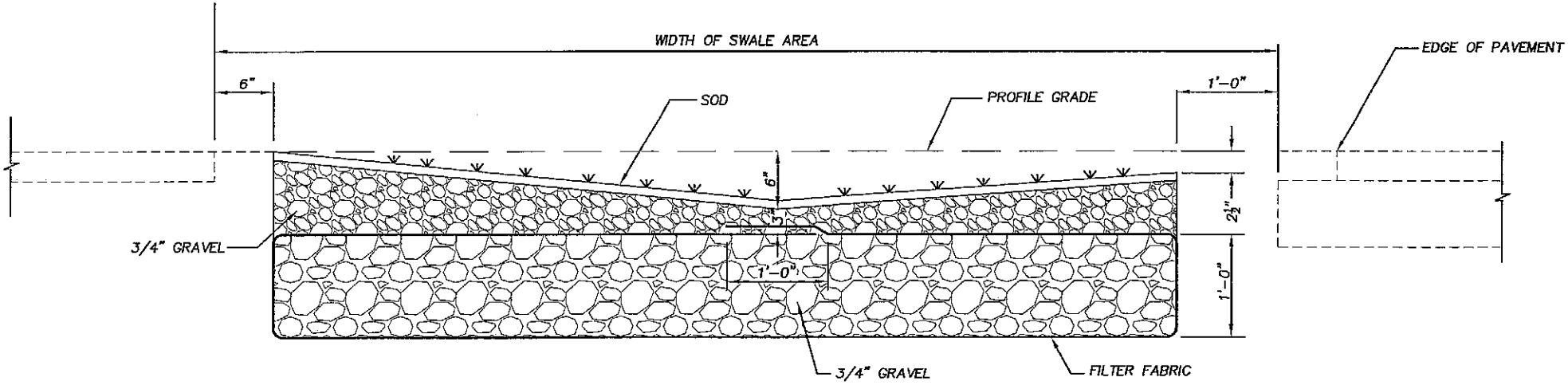
NOTE:

NEW FLUME SHALL FOLLOW SLOPE OF PROP. SIDEWALK TO EXIST. FLUME AT PROPERTY LINE.
CONNECTION SHALL INCLUDE ANY NECESSARY BENDS AND FITTINGS. A CLEANOUT FITTING SHALL BE INSTALLED AT PROPERTY LINE SMOOTH CONCRETE TRANSITION TO BE PROVIDED FROM ROUND PIPE TO RECTANGULAR OPENING IN CURB CASTING.

FLUME OUTLET DETAIL

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-2	MISC. 35-86-44
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 2



NOTES:

1. SWALE TRENCH SHALL BE CONSTRUCTED WHEN WIDTH OF DRIVEWAY APPROACH EXCEEDS 10'-0".
2. SWALE TRENCH CONSTRUCTION SHALL COVER REMAINING UNPAVED SWALE AREA ADJACENT TO PROPERTY BUT NOT EXCEED 34 PERCENT OF TOTAL LINEAR FOOTAGE WIDTH OF THE ABUTTING OWNER'S PRIVATE PROPERTY.
3. FIELD INSPECTION SHALL BE PERFORMED WHEN FILTER FABRIC IS INSTALLED, GRAVEL LAYER IS IN PLACE AND PRIOR TO BACKFILLING EXCAVATED AREA WITH FINAL GRAVEL LAYER.
4. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES.

SWALE TRENCH DETAIL

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC. 35-86-45
CK:	CITY OF MIAMI, FLORIDA	Sheet 1 of 1

UNDERGROUND INDEX

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	MISC.
CK:	CITY OF MIAMI, FLORIDA	

UNDERGROUND LEGEND

STANDARD MERIDIAN

GAS MAINS
PROPERTY LINE
ELECTRIC, TELEPHONE & TELEGRAPH
ZONE LINE
WATER
CENTER LINE
MONUMENT LINE
Exist. Sewer, Type & Size as Noted
12" DIA. OR LESS
" " " " " " "
GREATER THAN 12" DIA.

UTILITIES OVER 12" IN DIAMETER OR WIDTH TO BE DRAWN TO SCALE

MANHOLE : STORM & SANITARY

TYPE "D" CATCH BASIN

TYPE "E" CATCH BASIN

TYPE F-3 CATCH BASIN

UTILITY VALVES

HORIZONTAL GATE VALVE

SYMBOLS

REFERENCES TO BE GROUPED BY UTILITIES, I.E.

UTILITY (WATER, SAN. SEWER, ELEC., ETC.)
REF. No. SOURCE
S.S.-1 Sr. Bk. 356-8

SS-SAN.SR.
SD-STORM.SR.
W-WATER
T-TELEPHONE
E-ELECTRIC
G-GAS
R-OTHER

UTILITY BOXES USED ON U.G. SHEETS

MANHOLE INFORMATION

M.H.	UTILITY	RIM ELEV.	BOT. ELEV.	ELEVATION OF PIPE OR DUCT	SIZE	REF
½"	¾"	½"	½"	1¾""	1"	½"
5½"						

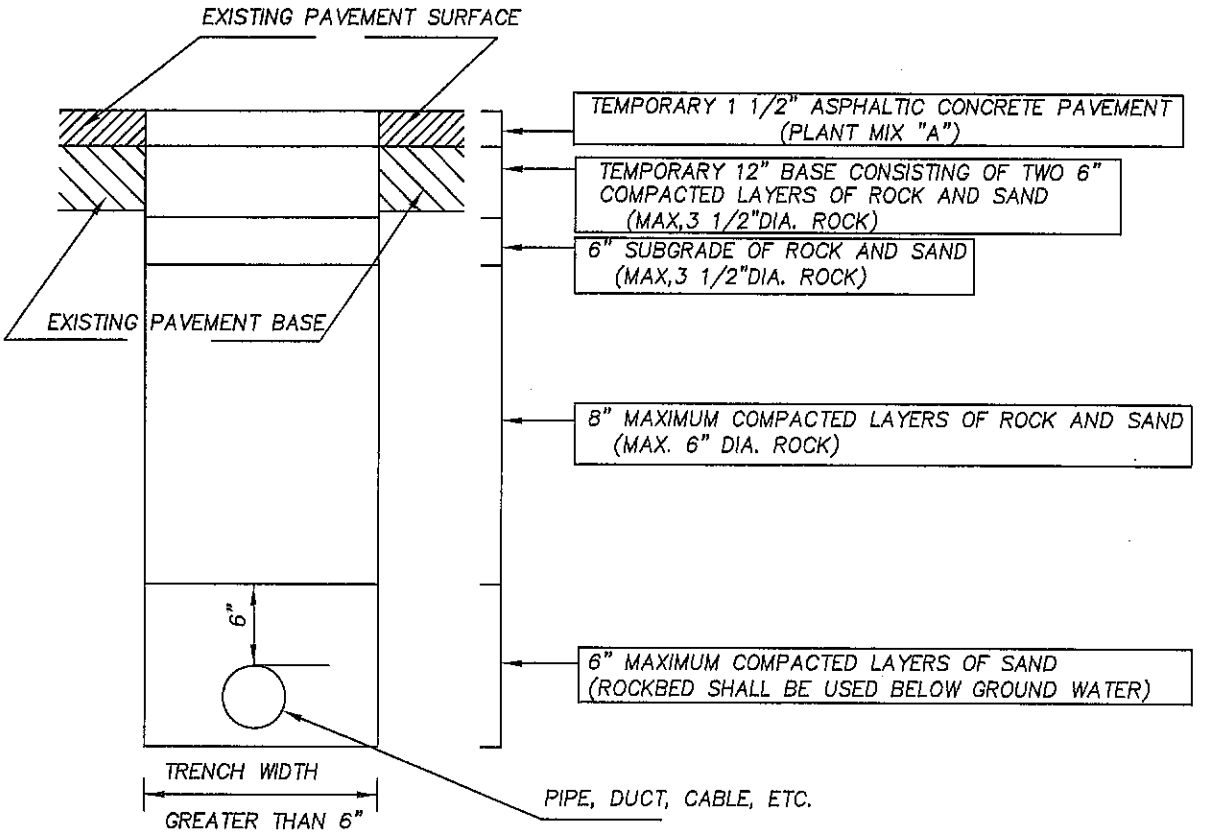
ON ST. OR AVE.

UTILITY	LOCATION	ELEVATION	SIZE	COVER	REF
1"	½"	1"	½"	½"	½"
5½"					

N.T.S.

JAN. 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC 35-88-1
CK:	CITY OF MIAMI, FLORIDA	4-64	Sheet 1 of 1

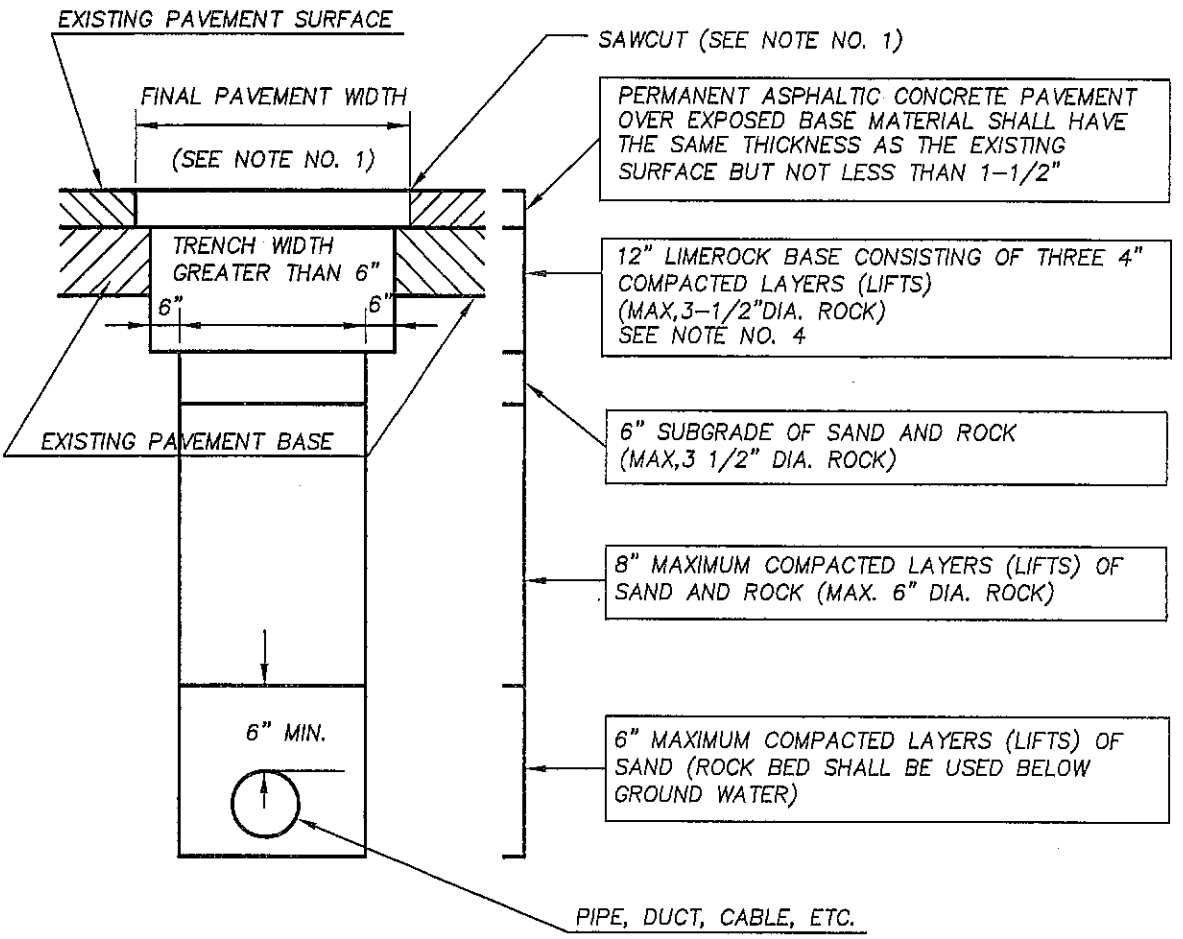


1. *THE TEMPORARY ASPHALTIC CONCRETE SURFACE SHALL BE PLACED THE SAME WORKING DAY THE TRENCH IS BACKFILL.*
2. *COLD PATCH MAY BE SUBSTITUTED FOR PLANT MIX "A" IF THE PERMANENT PAVEMENT WILL BE CONSTRUCTED WITHIN SEVEN (7) DAYS.*
3. *A MINIMUM OF ONE (1) CERTIFIED LABORATORY DENSITY TEST SHALL BE REQUIRED FOR EACH BACKFILL LAYER FOR EVERY FIFTY (50) LINEAR FEET OR LESS OF TRENCH.*
4. *TRENCH BACKFILL, INCLUDING TEMPORARY BASE AND SUBGRADE, SHALL BE COMPACTED TO A DENSITY NOT LESS THAN NINETY-FIVE PERCENT (95%) OF AASHTO T-180 (MODIFIED PROCTOR)*
5. *"CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) IN ACCORDANCE WITH F.D.O.T STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, MAY BE SUBSTITUTED FOR SAND AND ROCK BACKFILL BETWEEN THE BOTTOM OF THE PAVEMENT BASE AND 6" ABOVE THE CROWN OF THE UTILITY. CERTIFICATION FROM THE FLOWABLE FILL SUPPLIER SHALL BE REQUIRED.*

BACKFILL AND TEMPORARY PAVEMENT STANDARDS FOR TRENCHES IN THE PUBLIC RIGHT OF WAY

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-3	MISC. 35-88-6
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

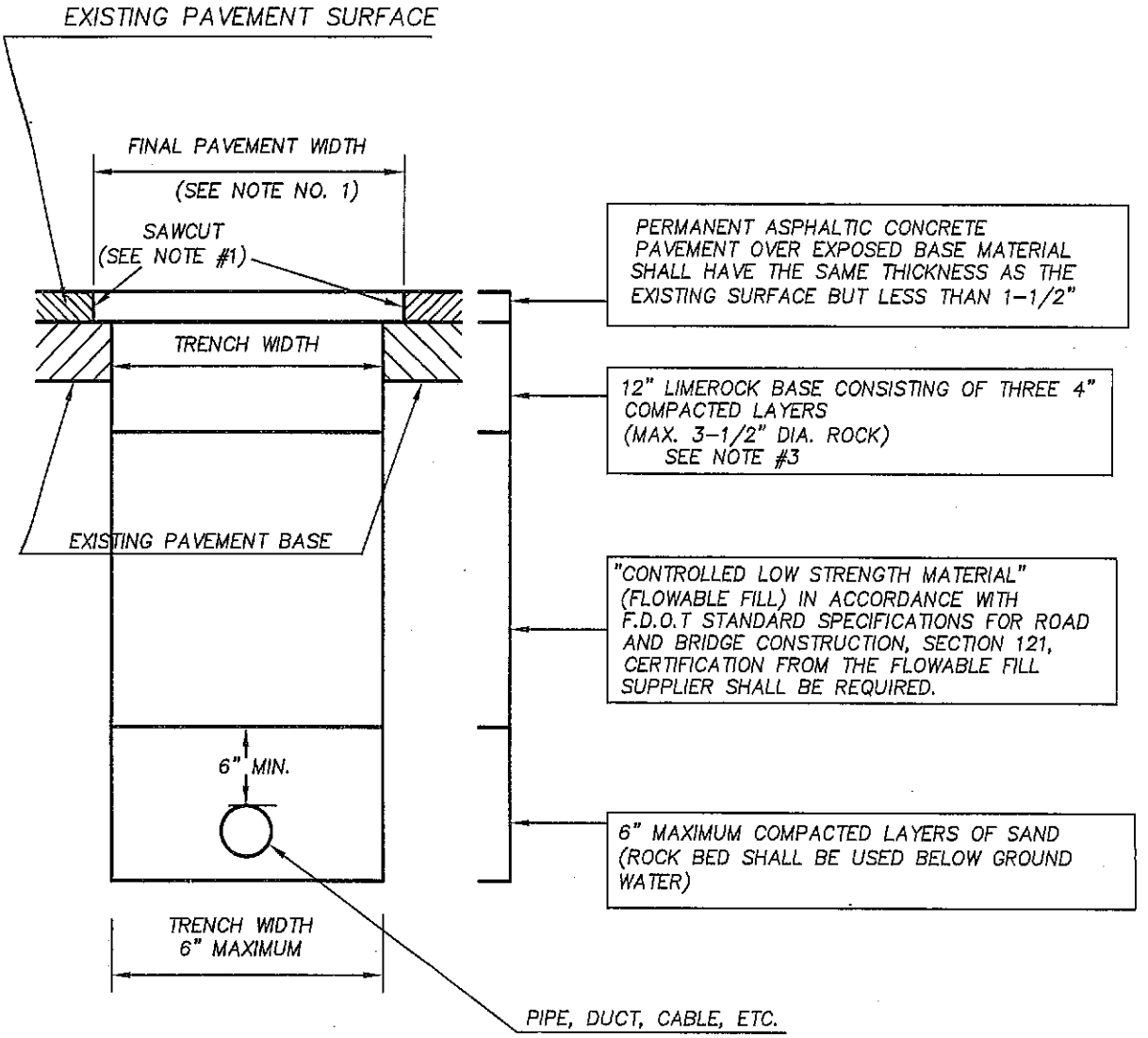


1. *FINAL PAVEMENT RESTORATION WIDTH SHALL BE IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 27.*
2. *EXISTING CONCRETE PAVEMENT OR CONCRETE BASE SHALL BE REPLACED WITH CONCRETE. CONCRETE BASE SHALL BE REINFORCED WITH NO. 6 GAUGE, 6" BY 6" WIRE FABRIC.*
3. *A MINIMUM OF ONE (1) CERTIFIED LABORATORY DENSITY TEST SHALL BE REQUIRED FOR EACH BACKFILL LAYER FOR EVERY FIFTY (50) LINEAR FEET OR LESS OF TRENCH*
4. *TRENCH BACKFILL, INCLUDING TEMPORARY BASE AND SUBGRADE, SHALL BE COMPACTED TO A DENSITY NOT LESS THAN NINETY-FIVE PERCENT (95%) OF AASHTO T-180 (MODIFIED PROCTOR)*
5. *"CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) IN ACCORDANCE WITH F.D.O.T STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, MAY BE SUBSTITUTED FOR SAND AND ROCK BACKFILL BETWEEN THE BOTTOM OF THE PAVEMENT BASE AND 6" ABOVE THE CROWN OF THE UTILITY. CERTIFICATION FROM THE FLOWABLE FILL SUPPLIER SHALL BE REQUIRED.*

BACKFILL AND PERMANENT PAVEMENT STANDARDS FOR TRENCHES GREATER THAN 6" IN WIDTH IN THE PUBLIC RIGHT OF WAY

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-3	MISC.35-88-7
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1



1. *FINAL PAVEMENT RESTORATION WIDTH SHALL BE IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 27.*
2. *EXISTING CONCRETE PAVEMENT OR CONCRETE BASE SHALL BE REPLACED WITH CONCRETE.*
3. *"CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) MAY BE SUBSTITUTE FOR 12" LIMEROCK BASE.*

BACKFILL AND PERMANENT PAVEMENT STANDARDS FOR TRENCHES 6" OR LESS IN WIDTH IN THE PUBLIC RIGHT OF WAY

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-5	MISC. 35-88-8.
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

MISCELLANEOUS INDEX

N.T.S.

BLUE	R/L RANDOM LINE
RED	P/L PROPERTY LINE
RED	ZONED STREET LINE
BLACK	C/L CENTER LINE
RED	M/L MONUMENT LINE
RED	ℳ AS SHOWN IN PREVIOUS PLATS
RED 30'	DISTANCE FROM M/L TO P/L
□	STK= HUB OR STAKE WITH NAIL DRIVEN TO DENOTE POINT
	MON. = CITY MONUMENT
○	I.P. = IRON PIPE
◉	I.P. IN CONC. (IRON PIPE IN CONCRETE) = P.R.M. = PERMANENT REFERENCE MONUMENT
•	D.H. = DRILL HOLE (WHEN SIZE IS GIVEN, THE DIAMETER IS INDICATED)
	DISC INTERSECTION
0.10 2 + 65.70	RANDOM LINE INTERSECTION STATION
	HEDGES
	LOOSE ROCK WALL
	ROCK WALL
	C.B.S. WALL
X X	WIRE OR WOODEN FENCE
10' 30'	BUILDING SPECIFYING NUMBER OF STORIES, TYPE OF CONSTRUCTION & NATURE OF OCCUPANCY
C.B.S.	CONCRETE BLOCK STUCCO
F.R.	FRAME

LEGEND FOR DETAIL PLATS

N.T.S.

JAN 1954

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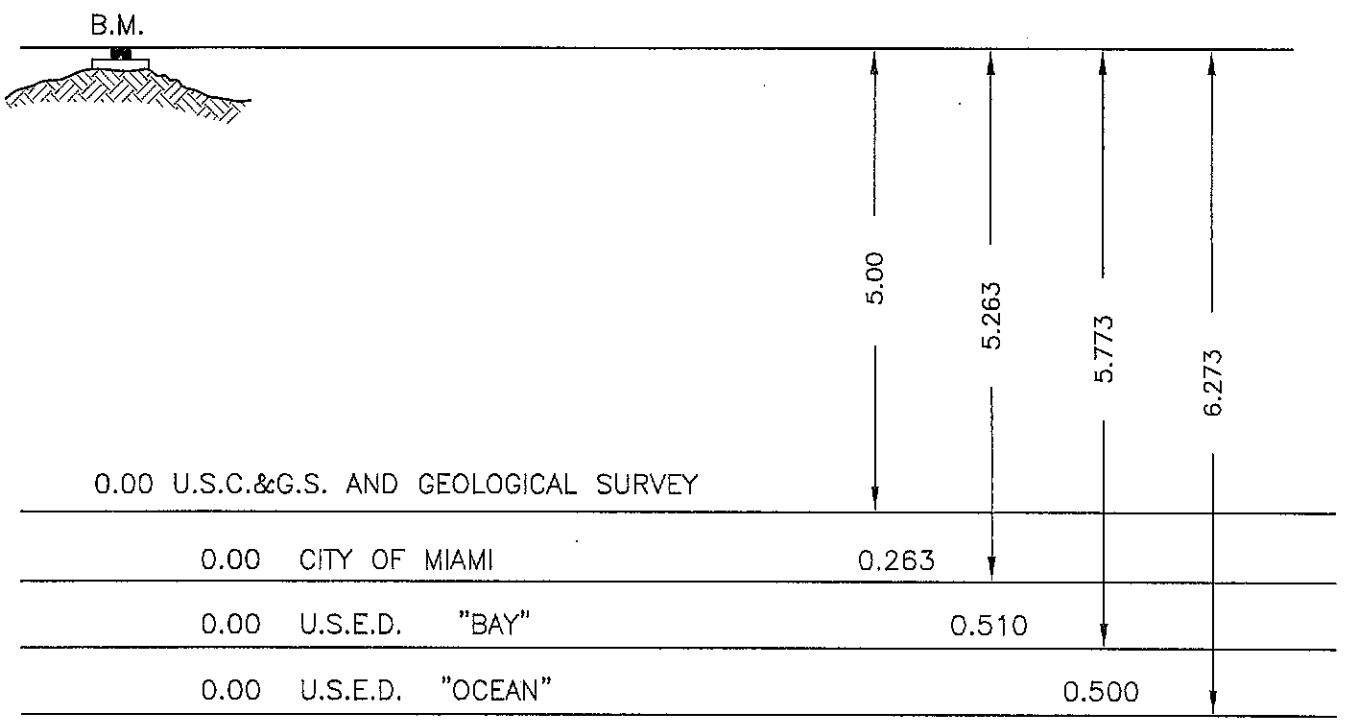
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

RELATIVE DATUM PLANES

B.M.	U.S.E.D.	"OCEAN"	ELEV.	6.273	M.L.W.
B.M.	U.S.E.D.	"BAY"	ELEV.	5.773	M.L.W.
B.M.	CITY OF MIAMI		ELEV.	5.263	M.L.W.
B.M.	U.S.C. & G.S.		ELEV.	5.000	M.S.L.
B.M.	U.S. GEOLOGICAL SURVEY		ELEV.	6.273	M.S.L.

THE ABOVE INDICATES THE COMPARATIVE ELEVATION OF A BENCH MARK FOR THE FOUR PLANES.



DATUM PLANE RELATIONSHIPS

N.T.S.

JAN 1954

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-89-2
CK:	CITY OF MIAMI, FLORIDA		Sheet 1 of 1

ALL DRAWINGS MUST BE TO SCALE

DETAIL DRAWINGS

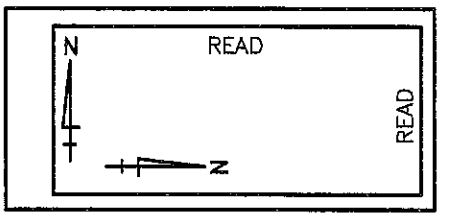
SHOW MONUMENT OR RANDOM LINES IN BLUE
SHOW PROPERTY LINES & SUBDIVISION NAMES IN RED
SHOW SURVEY INFORMATION IN BLACK
SHOW ELEVATIONS IN RED

SEE STANDARD DETAIL FOR SIZES OF LETTERING & SYMBOLS

SIZE OF DRAWINGS

A. LARGE

40" X 30"
36" X 30" 1 1/2" MARGIN ON LEFT
36" X 22" 1/2" MARGIN ON OTHER 3 SIDES
28" X 18"



LARGE DRAWING

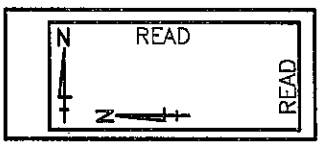
B. LEGAL AND LETTER SIZE

12" X 7" STREET WIDENING ROLLS–1/4" BORDER TITLE EACH END

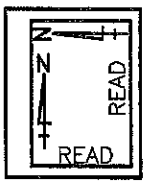
8 1/2" X 14" LEGAL SIZE, 1 1/2" MARGIN ON TOP–1/4" ON OTHER 3 SIDES

8 1/2" X 11 CORRESPONDENCE, 1" MARGIN ON TOP OR LEFT SIDE – 1/4" ON OTHER 3 SIDES.

8" X 10 1/2" GOV'T PERMITS, 1" MARGIN ON TOP – 1/4" ON OTHER 3 SIDES.



LEGAL OR LETTER



SIZE

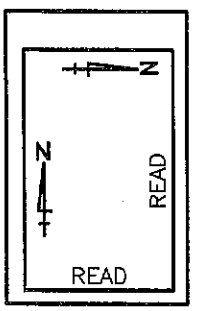
FILE NUMBER ON ALL DRAWINGS TO BE PLACED ON LOWER RIGHT – HAND CORNER

SIZE OF FILE BLOCK ON LARGE DRAWINGS 1" X 0.65"

SIZE OF FILE BLOCK ON SMALL DRAWINGS 0.75" X 0.5"

TITLE SHALL BE PLACED ON LOWER RIGHT – HAND CORNER

ON DRAWINGS THAT ARE TO BE ROLLED TITLE AND FILE NUMBER SHALL BE OUTSIDE OF BORDER



GOV'T. PERMIT

OFFICE STANDARDS FOR PREPARATION OF DRAWINGS

N.T.S.

JAN 1954

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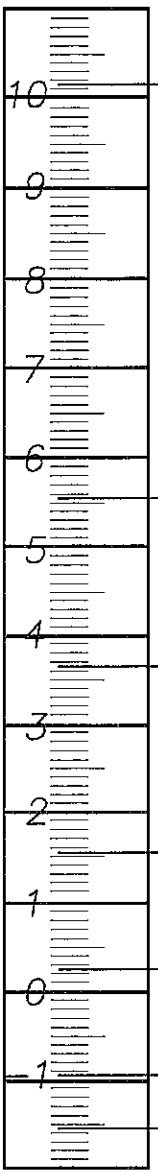
CK:	*CITY OF MIAMI, FLORIDA*	*7–56*	*Sheet 1 of 1*



HIGHEST "HURRICANE" TIDE = EL. 10.16' (SEPT. 15 & 16, 1945, FROM FLOOD MARKS.)

NOTE: U.S. ENGINNER DEPARTMENT REPORTS FOLLOWING TYPICAL TIDE ELEVATIONS FOR SEPT. 15 & 16, 1945:
AT MIAMI BEACH = EL.3.5
AT MOUTH OF MIAMI RIVER = EL.6.7
AT POINT 5 MI. SOUTH OF MIAMI = EL.13.5

NEXT HIGHEST "HURRICANE" TIDE = EL.5.57' 5.5[2] (OCT. 18, 1950)
OTHER "HURRICANE" TIDE = EL.5.15' 3.1[2] (OCT. 5, 1948)
TIDE = EL.5.05' 3.4[2] (SEP. 21, 1948)
TIDE = EL.4.26' 2.1[2] (OCT. 6, 1941)

HIGHEST TIDE OTHER"HURRICANE" = EL.3.64' 3.8[2] (OCT. 22, 1949)
OTHER HIGH TIDES: = EL.3.48' 3.6[2] (OCT. 15, 1947)
TIDE = EL.3.41' – (OCT. 14, 1943)
TIDE = EL.3.26' – (NOV. 8, 1942)
TIDE = EL.3.24' 3.1[2] (DEC. 6, 1946)

MEAN HIGH WATER = EL.1.56' (APPROX.)

MEAN SEA LEVEL + EL = EL.0.263
CITY DATUM

MEAN LOW WATER = -0.937[3]

LOWEST TIDE = EL.-1.51' (FEB. 2-9,1951)

1-FOR BISCAYNE BAY AT COCONUT GROVE, FOR THE PERIOD FROM NOV. 8, 1940 (WHEN GAGE WAS FIRST PUT INTO OPERATION) TO FEB. 28, 1951.

2-FOR OCEAN AT MIAMI BEACH, REPORTS BY U.S. ENGINEER DEPT. ALSO REPORTED BY THEM WAS ESTIMATED HURRICANE TIDE OF EL.4.7 AT MIAMI BEACH, NOV. 4, 1935 (GAGE WAS OUT).

3-FOR OCEAN AT MIAMI HARBOR ENTRANCE.

TIDE LEVELS BASED ON MIAMI CITY DATUM

FROM RECORDS OF U.S. GEOLOGICAL SURVEY, EXCEPT AS NOTED

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MAY 1955

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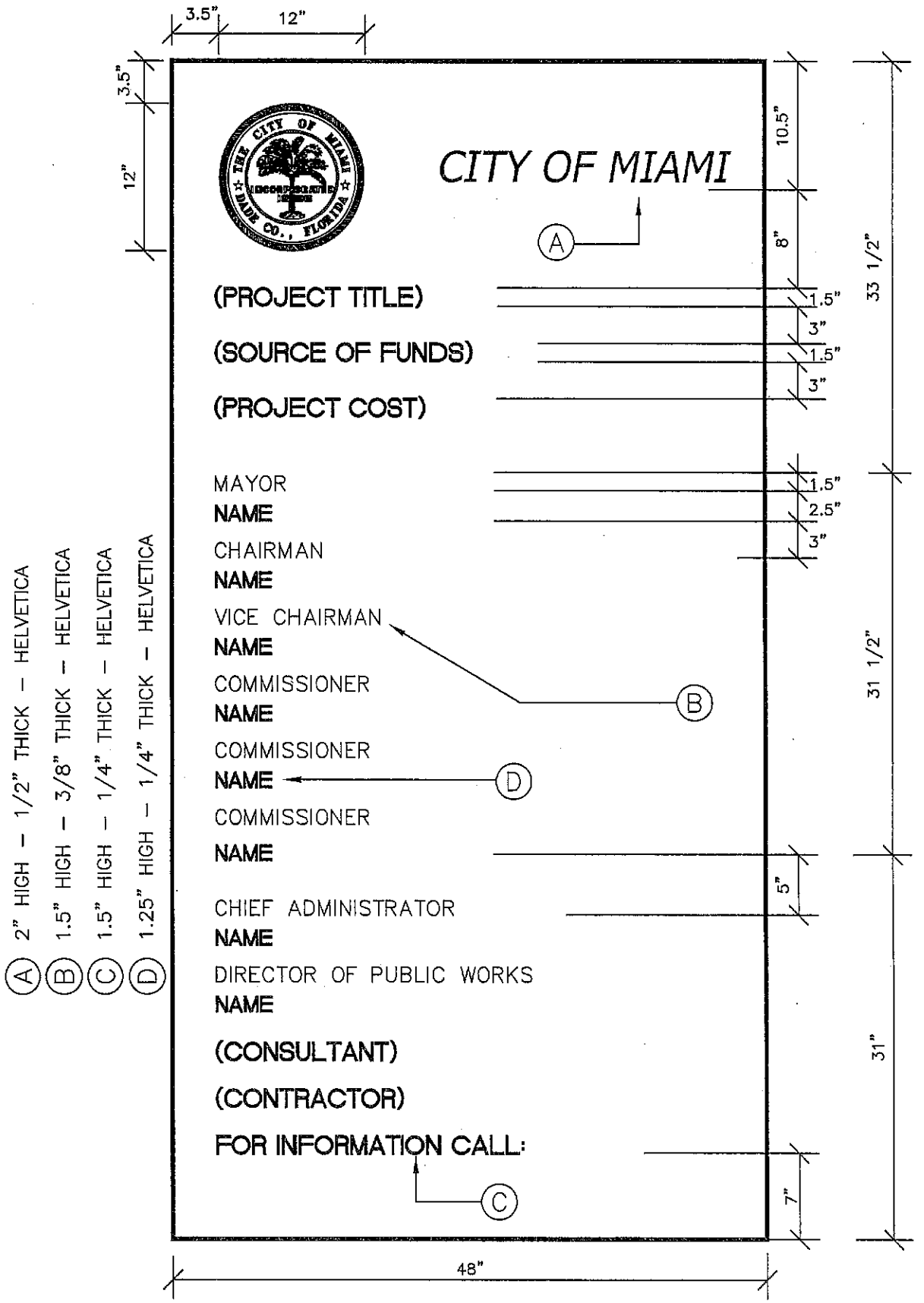
CK:	*CITY OF MIAMI, FLORIDA*	*Sheet 1 of 1*



CONSTRUCTION SIGN IN PUBLIC RIGHT OF WAY

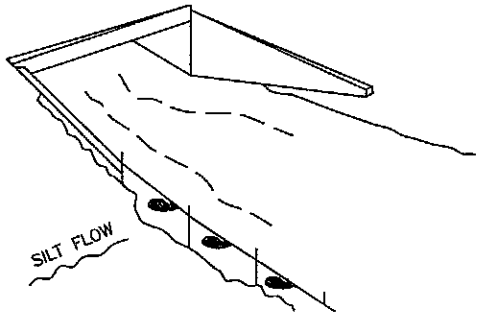
SCALE: 1"=1'-0"

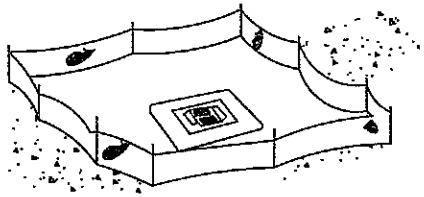
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-7	MISC. 35-89-5
CK:	CITY OF MIAMI, FLORIDA	12/01	Sheet 1 of 1

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT #1

N.T.S.





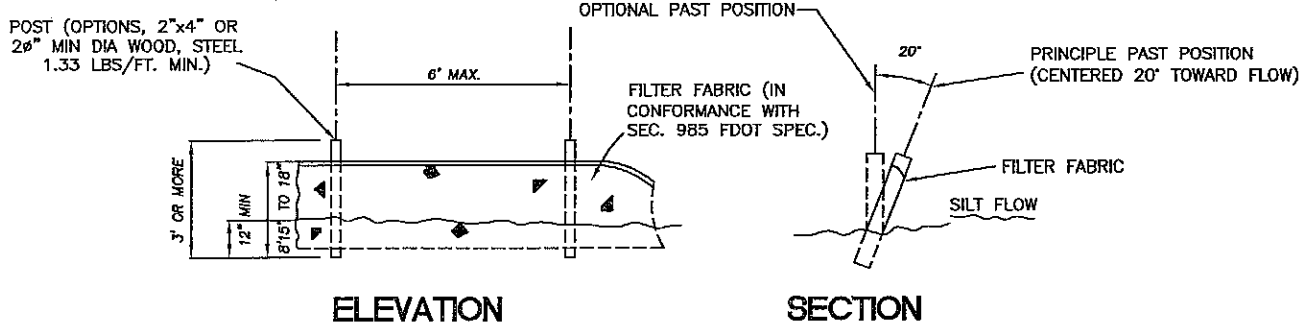
TYPE II SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS.

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHAPTER I.

TYPE III SILT FENCE

DO NOT DISPLAY IN A SCANNER THAT SILT FENCES WILL ACT AS A DOWN ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND HUMINITY BARRIERS USED OF PERMAN ENT BODIES OF WATER.

SILT FENCE APPLICATIONS



ELEVATION SECTION

NOTE" SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF)

TYPE III SILT FENCE

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

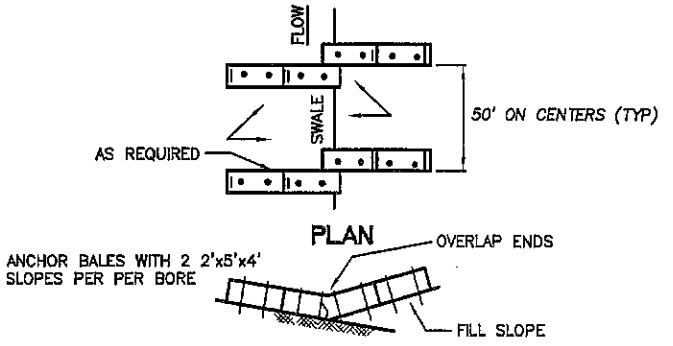
DR: MA
CK:

DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA

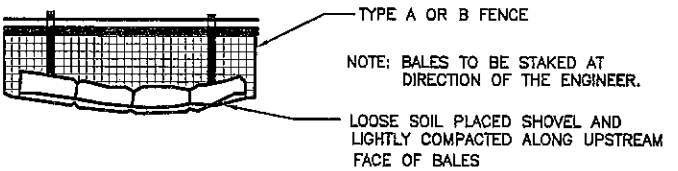
4/98

MISC. 35-89-6

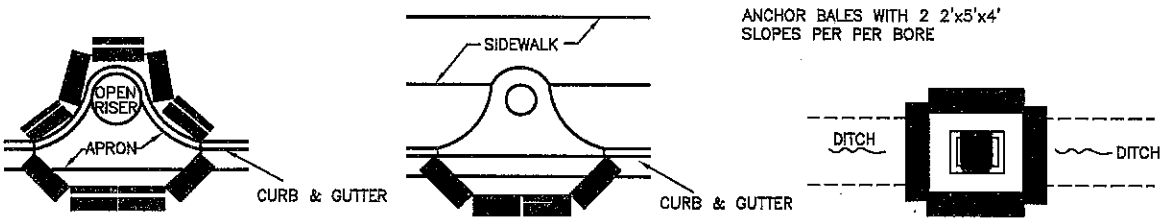
Sheet 1 of 7



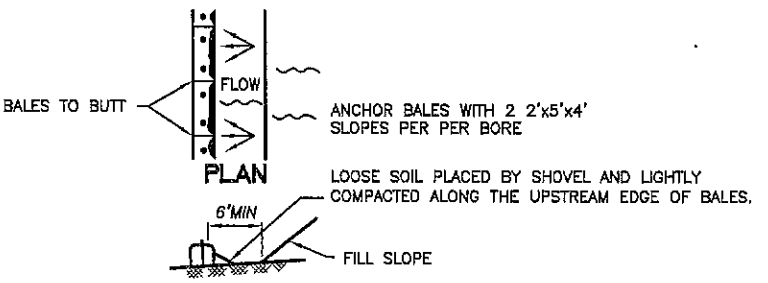
TO BE USED AT SELECT SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE



BALES BACKED BY FENCE



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



TO BE USED AT SELECT SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

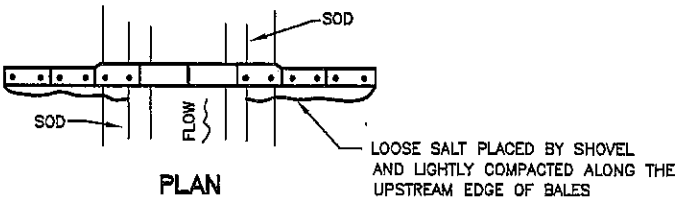
BARRIER FOR FILL SLOPE

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

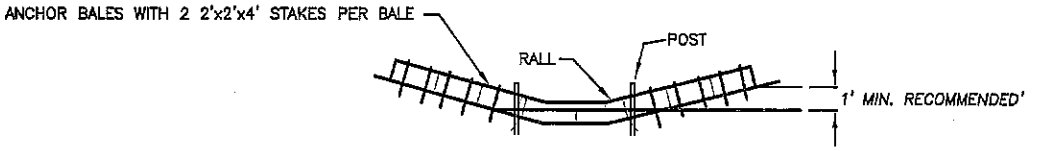
EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES
EXHIBIT #2

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-89-6
CK:	CITY OF MIAMI, FLORIDA	4/98	Sheet 2 of 7



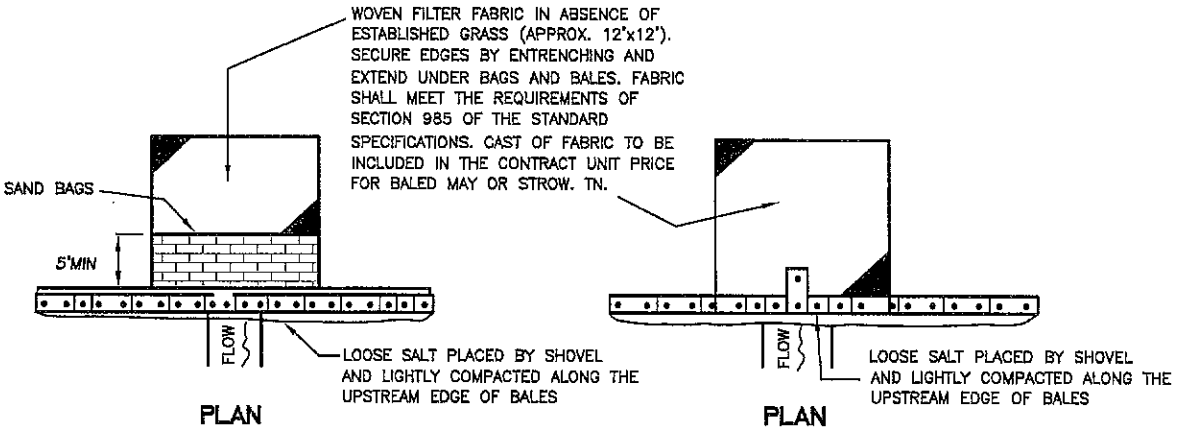
PLAN



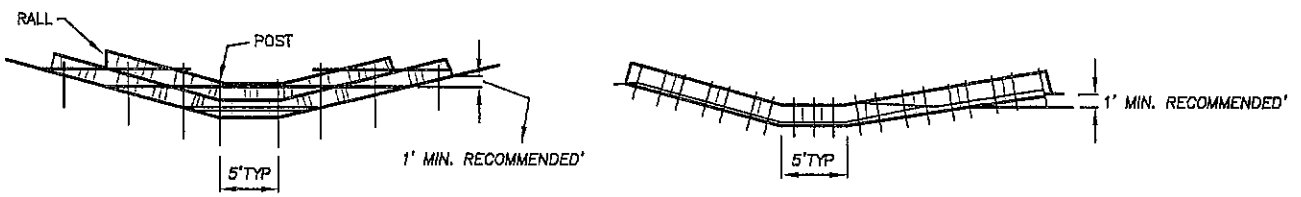
ELEVATION

SPACING: BATE BARRIERS FOR PARED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHAPTER I.

BARRIER FOR PAVED DITCHES



PLAN PLAN



ANCHOR LOWER BALES WITH 2 2'x2'x4' STAKES PER BALE
ANCHOR TOP BALES TO LOWER BALES WITH 2 2'x2'x4' STAKES PER BALE

ANCHOR BALES WITH 2 2'x2'x4' STAKES PER BALE

ELEVATION ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITION OUTLINED IN CHAPTER I.

TYPE II TYPE I

BARRIER FOR UNPAVED DITCHES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES
EXHIBIT #3

N.T.S.

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-89-6
CK:	CITY OF MIAMI, FLORIDA	4/98	Sheet 3 of 7

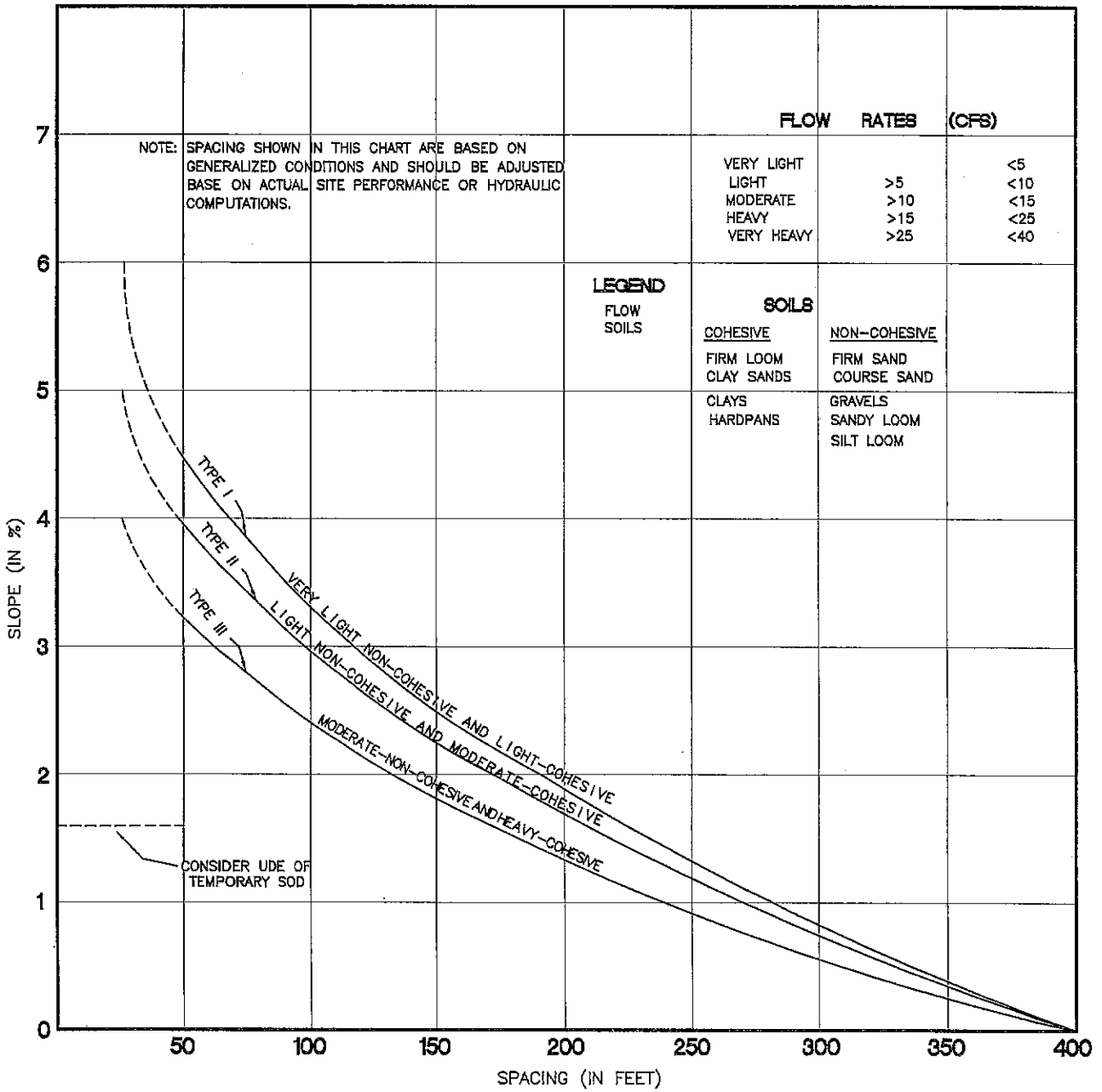


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIES, AND TYPE III SILT FENCES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES EXHIBIT #4

DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-89-6
CK:	CITY OF MIAMI, FLORIDA	4/98	Sheet 4 of 7

1) Tree protection and pruning shall be accomplished as detailed in special provisions, the construction plans, and or per tree ordinance 12636.

2) The Storm Water Pollution Prevention Plan, SWPPP, submitted to Public Works, shall describe in detail how the construction effort will be phased with regards to minimizing erosion problems by the use of temporary and permanent erosion control measures, for the various sequences of construction operations. Any modifications must be approved by the City of Miami – NPDES Section, Department of Public Works.

3) Environmental control features as provided in the SWPP, are to be installed at all areas of excavation or fill for drainage system, or structure construction prior to such excavation or fill. Inlet entrances are also to be protected from siltation as detailed on sheet 2 of 4 of Misc. 35–89–6.

4) All environmental control features are to be maintained throughout the life of the project in accordance with N.P.D.E.S. requirements. The contractor must insure that all erosion control features function properly at all times.

5) All erosion and material deposits must be contained within the project limits.

6) Any damaged or ineffective rock bags are to be replaced with new ones. The location of rock bags installation is as mentioned in the SWPPP plans. The project engineer may specify other areas as necessary.

7) Ditch bottom inlets shall be protected from sediment intake until project is complete. Elevation of ground outside inlet top shall not be higher than inlet top. Rock bags shall be installed around inlet top. Completed inlets in paved areas shall also be protected with rock bags to prevent sediment intake.

8) Curb inlets also shall be protected from sediment intake until the project is complete. All exposed sloped material adjacent to inlet, shall be covered with erosion control matting with outer limits protected by rock bags.

9) Stockpiled material shall not be left in erosion prone areas unless protected by cover or rock bags.

10) Inspection of erosion control measures and condition of adjacent properties, shall be performed daily by the contractor's representative and the project engineer. Deficiencies shall be noted and corrected.

11) Any offsite sediment discharge to a municipal separate storm water system arising from the contractor's activities is not allowed. Refer to Public Works Department Bulletin No. 25.

12) The use of sanitary sewers, french drains, cover ditches and/ or rock drains for the disposal of wastewater is expressly prohibited. Refer to Public Works Department Bulletin No. 25.

* NPDES – National Pollution Discharge Elimination System

STORM WATER POLLUTION PREVENTION PRACTICES: (FOR PROJECTS OF 1 ACRE OR MORE)

A) Sequence of soil disturbing activities and implementation of controls:

1. Clear & Grubing
2. Install Drainage Structures
3. Stabilization
4. Base Preparation
5. Asphalt Application
6. Placement of Rock bags around inlets
7. Placement of Rock bags around manholes
8. Application of friction course A.C.
9. Installation of street signing
10. Pavement Marking
11. Remove Rock Bags
12. Clean all construction debris from construction site

B) Erosion & Sediment Control Stabilization Practices:

—— Temporary Sodding
—— Temporary Grassing
—— Permanent Planting, Seeding or Seed & Mulch
—— Temporary Mulching
—— Artificial Covering
—— Buffer Zones
—— Preservation of Natural Resources
—— Other

C) Structural Practices:

—— Sand Bagging
—— Silt Fences
—— Rock Bags
—— Rip Rap
—— Turbidity Barrier
—— Pipe Slope Drains
—— Flumes
—— Rock Bedding at construction exit
—— Timber Bedding at construction exit
—— Ditch Liner
—— Sediment Traps
—— Sediment Basins
—— Storm Inlet Sediment Trap
—— Stone Outlet Structure
—— Velocity Control Devices
—— Storm Sewers
—— Other

E) General

1. Approved State, Local Plans or Storm Water Permits.
2. All of the Controls shall be maintained at all times.
3. All controls shall be inspected daily.
4. Apply fertilizers and pesticides according to standard specifications, design and special provisions.
5. Report Non–Storm Water Discharge (Including Spill) (305)416–1200.
6. Visit www.dep.state.fl.us/water/stormwater/npdes/

D)Other Controls:

Offsite Vehicle Tracking:

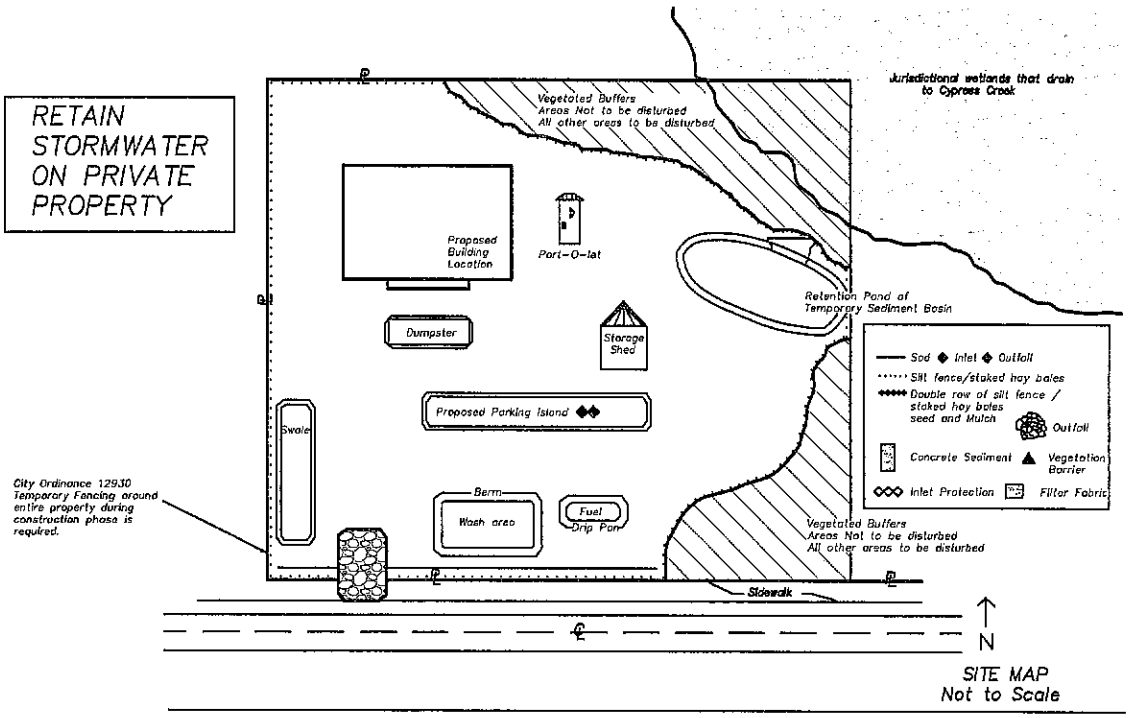
—— Haul Roads Dampened for Dust Control
—— Loaded Haul Trucks to be covered with Tarpaulin, or approved equal.
—— Excess Dirt on Road removed daily
—— Stabilized Construction Entrance
—— Concrete truck wash area
—— Other

Treatment of Storm Water to meet Water Quality:

—— Deep Wells
—— Culverts for Emergency Overflow
—— Pollution Control Structures
—— Other

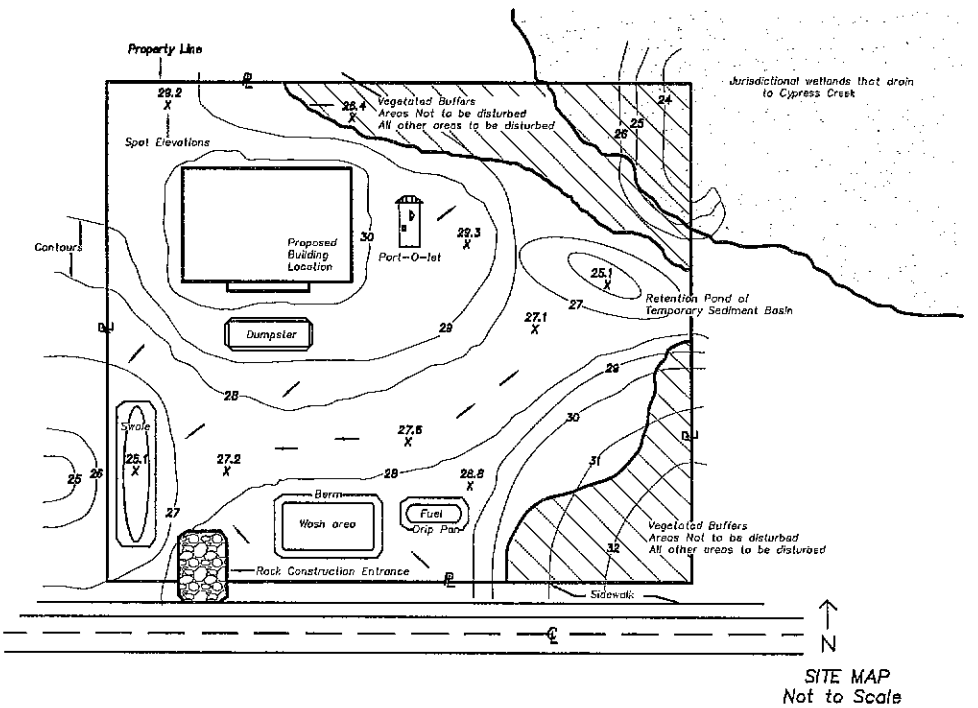
STORM WATER POLLUTION PREVENTION PLAN (SWPP) CHECK LIST

PAGE 1: All BMP's are shown in this page. *SAMPLE COPY*



PAGE 2: All BMP's and Spot Elevation are shown in this page.

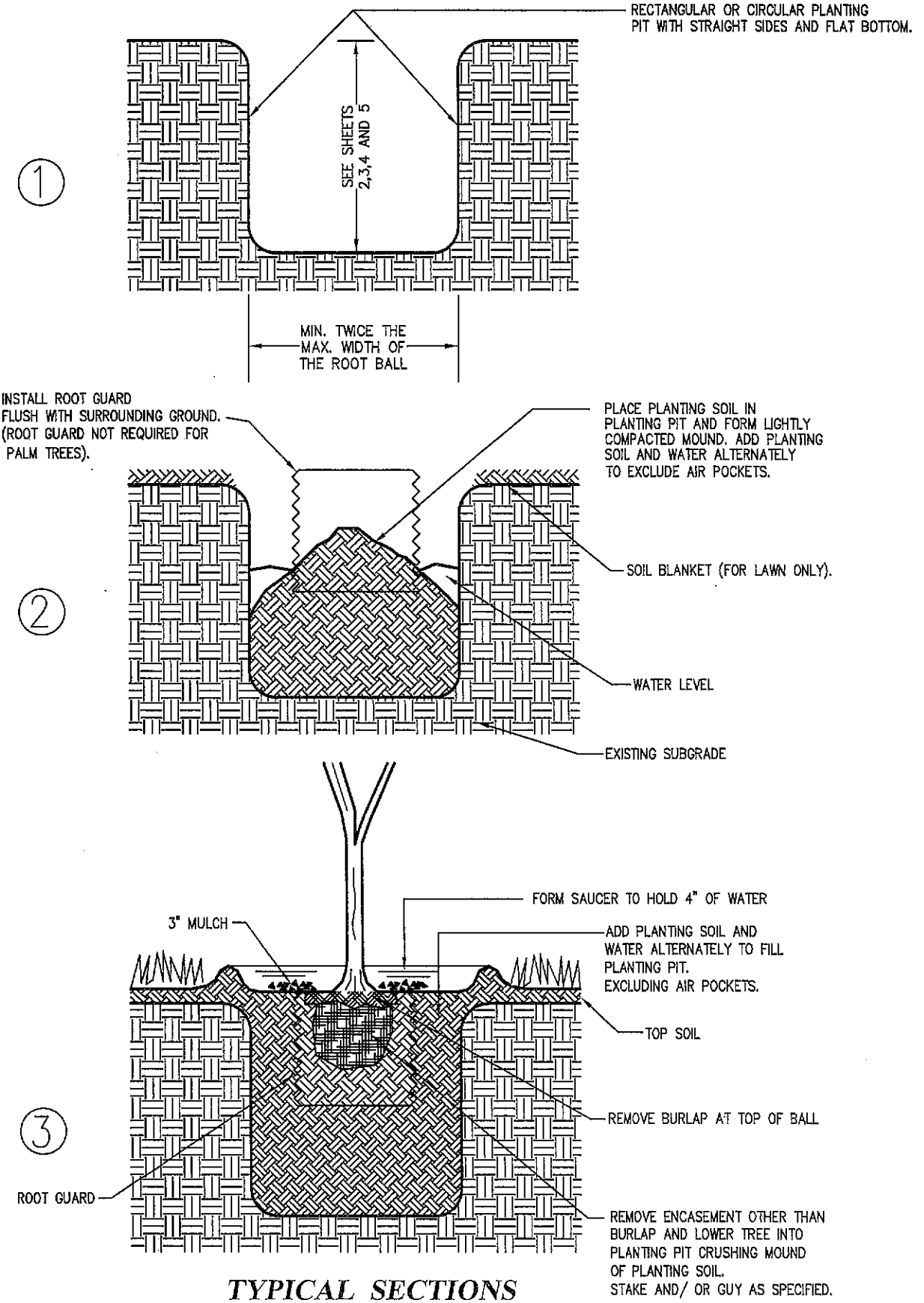
SAMPLE COPY



STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SAMPLE PLAN

N.T.S.

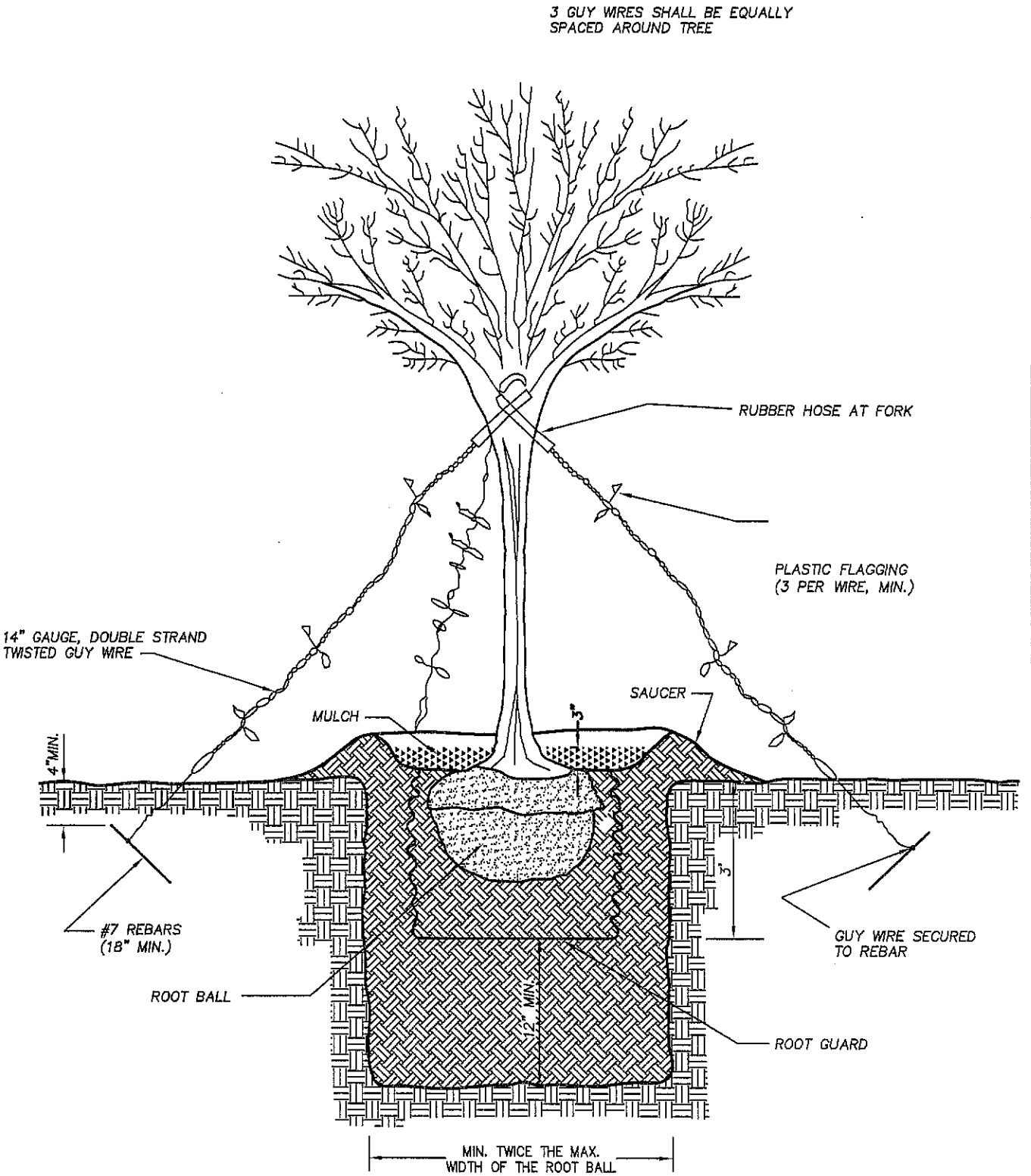
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 35-89-6
CK:	CITY OF MIAMI, FLORIDA		Sheet 7 of 7



TYPICAL SECTIONS

PLANTING PROCEDURE DETAILS

	N.T.S.		*Dec. 1979*
DR: MA	*DEPARTMENT OF PUBLIC WORKS*	*R–1*	*MISC. 17–293*
CK:	*CITY OF MIAMI, FLORIDA*		*Sheet 1 of 5*

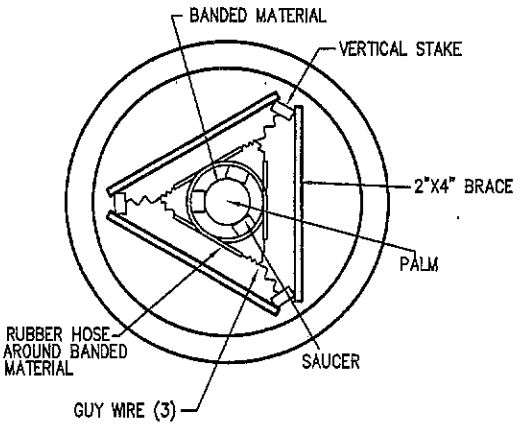


TREES OTHER THAN PALMS

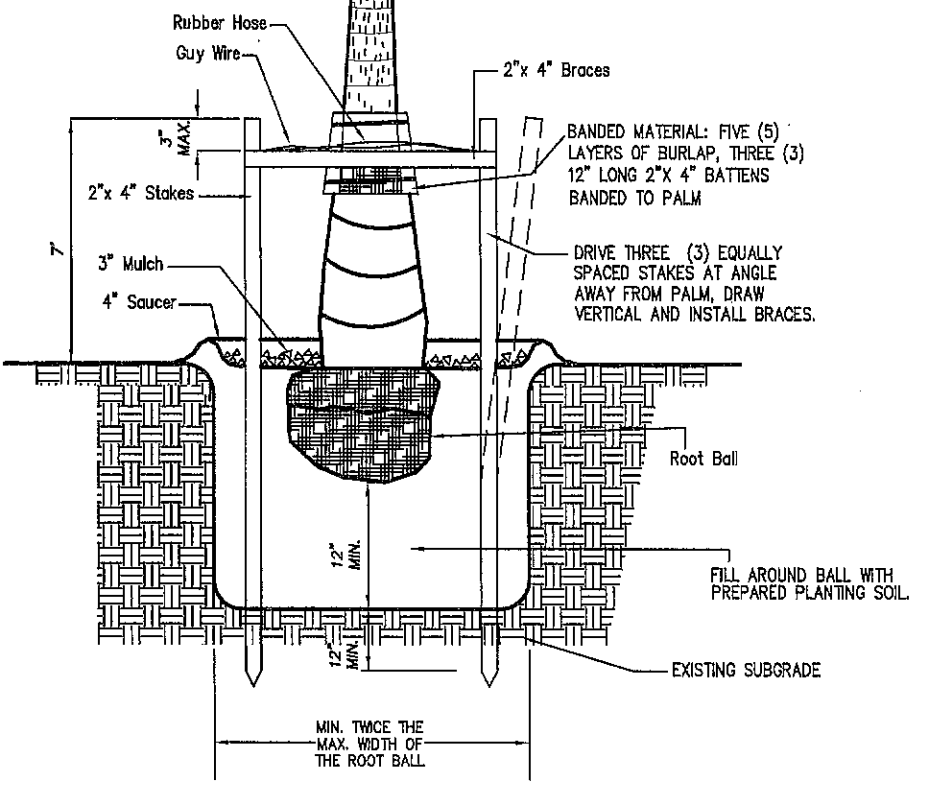
PLANTING PROCEDURE DETAILS

	N.T.S.		Jan. 1980
DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 17-293
CK:	CITY OF MIAMI, FLORIDA		Sheet 2 of 5

NOTE: FOR PALMS OVER 20' O.A. USE 4" X 4" BRACES IN LIEU OF 2" X 4".



PLAN VIEW



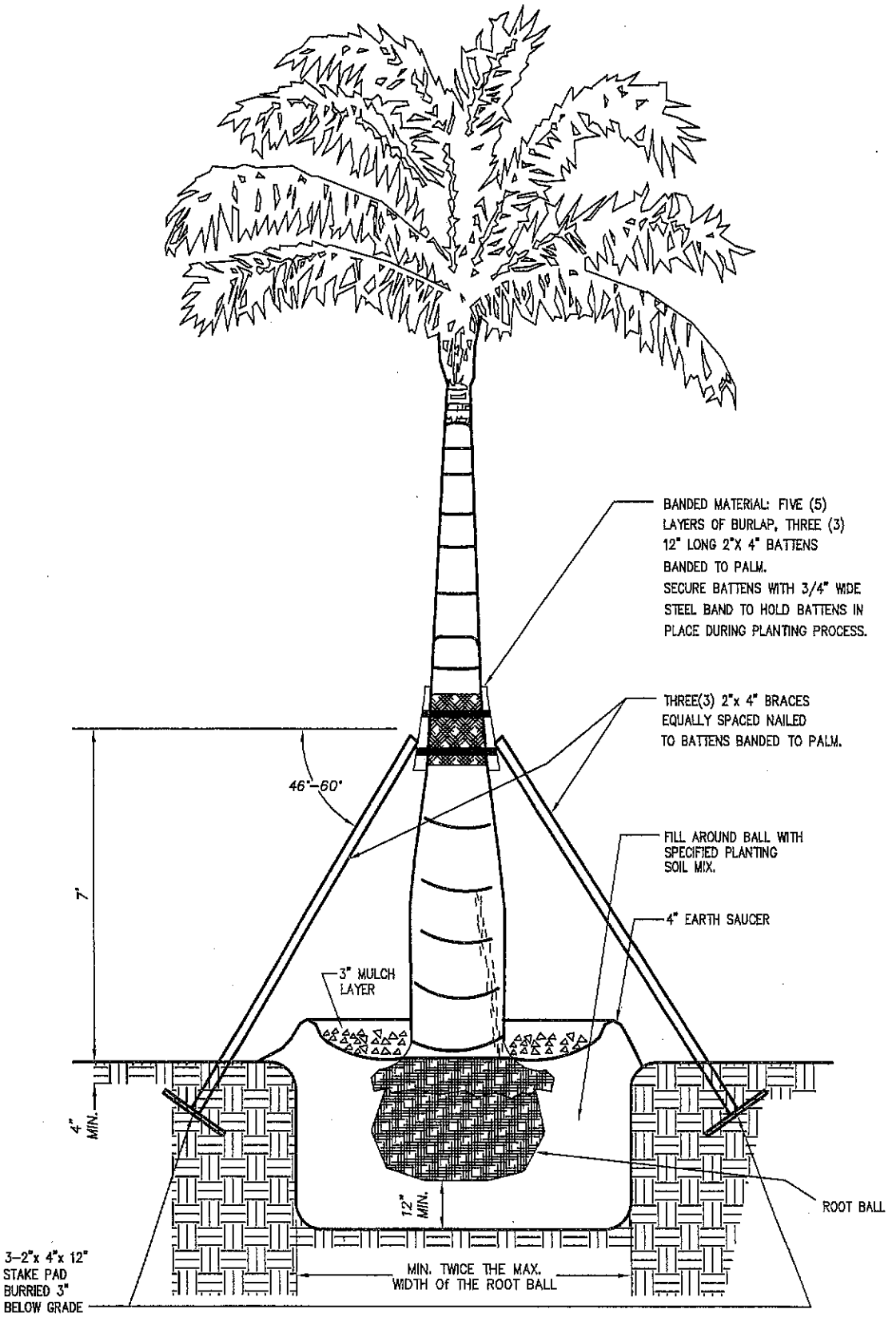
TYPICAL SECTION FOR PLANTING PALM TREES IN SMALL PARKWAYS

PLANTING PROCEDURE DETAILS

N.T.S.

Jan. 1980

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 17-293
CK:	CITY OF MIAMI, FLORIDA		Sheet 3 of 5

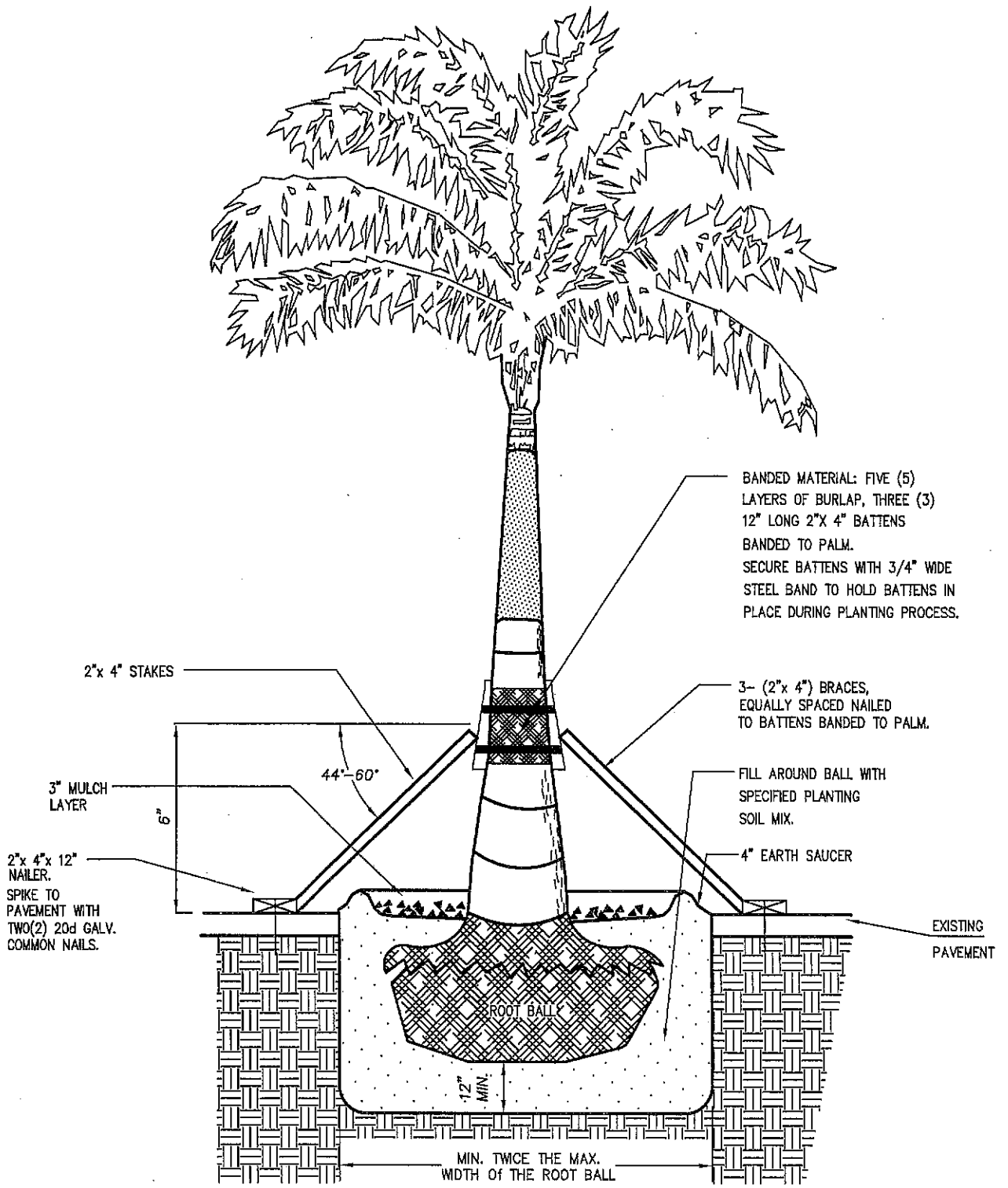


TYPICAL SECTION FOR PLANTING PALM TREES IN UNRESTRICTED AREAS

PLANTING PROCEDURE DETAILS

N.T.S. Jan. 1980

DR: MA	DEPARTMENT OF PUBLIC WORKS	R-1	MISC. 17-293
CK:	CITY OF MIAMI, FLORIDA		Sheet 4 of 5



TYPICAL SECTION FOR PLANTING PALM TREES IN PAVEMENT AREAS

PLANTING PROCEDURE DETAILS

	N.T.S.		,2008
DR: MA	DEPARTMENT OF PUBLIC WORKS		MISC. 17-293
CK:	CITY OF MIAMI, FLORIDA		Sheet 5 of 5