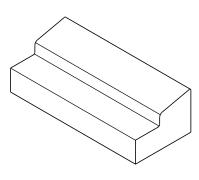
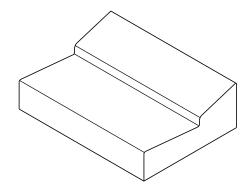
#### GENERAL NOTES:

- 1. For curb, gutter and curb & gutter provide  $\frac{1}{8}$ "  $\frac{1}{4}$ " contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.
- 2. Locate expansion joints for curb, gutter and curb & gutter in accordance with Specification 520.

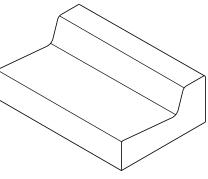
| TABLE OF CONTENTS: |   |  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|--|
| Sheet              | Description   |  |  |  |  |  |  |
| 1                  | 1 General Notes and Contents  |  |  |  |  |  |  |
| 2                  | Concrete Curb and Gutter  |  |  |  |  |  |  |
| 3                  | Curb and Gutter Joints and Endings, Concrete<br>Bumper Guard, and Asphaltic Concrete Curb |  |  |  |  |  |  |



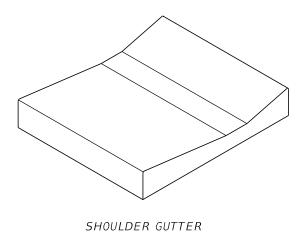




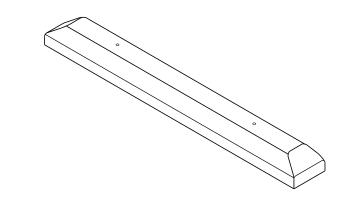
TYPE E



TYPEF

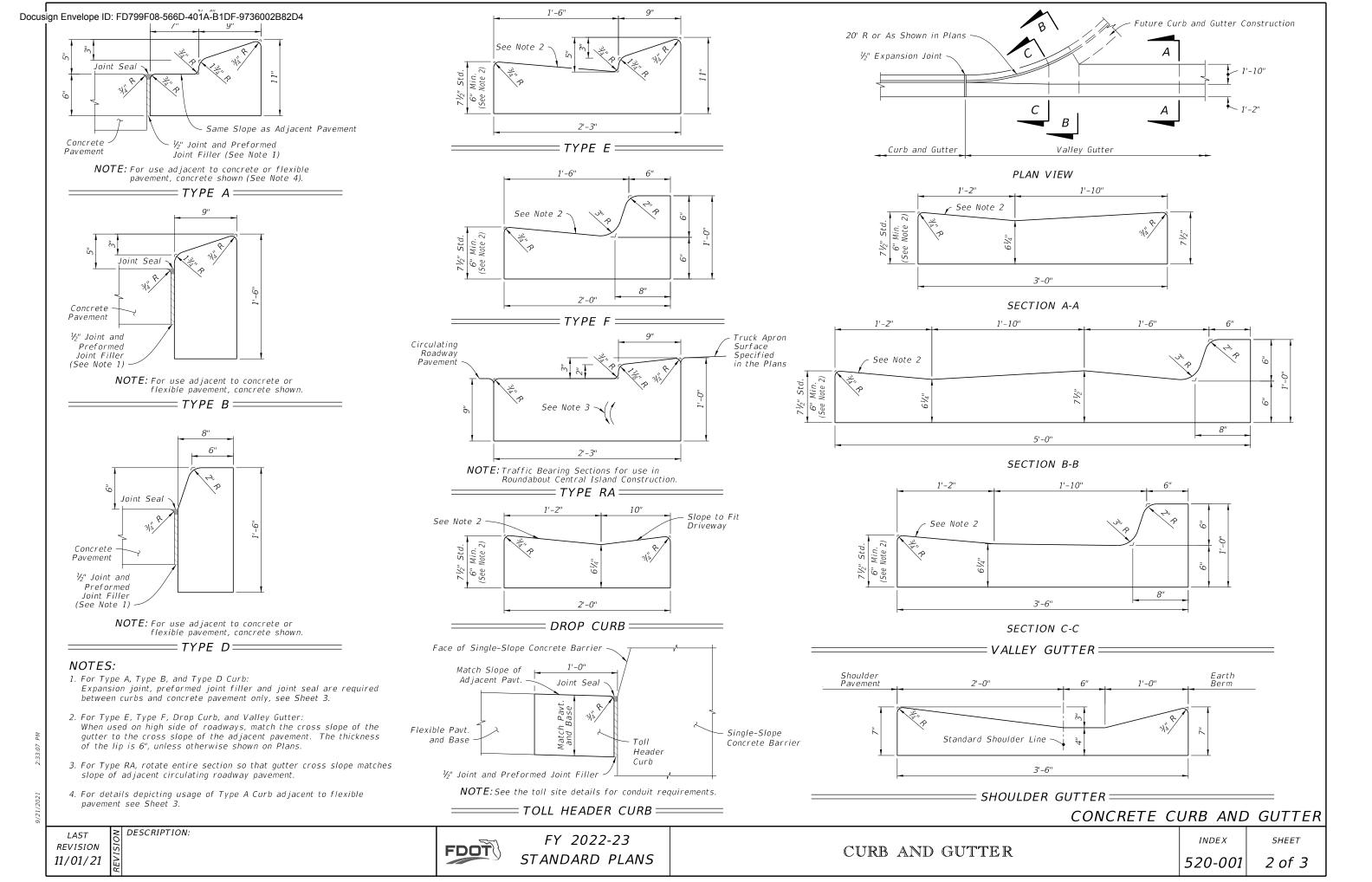


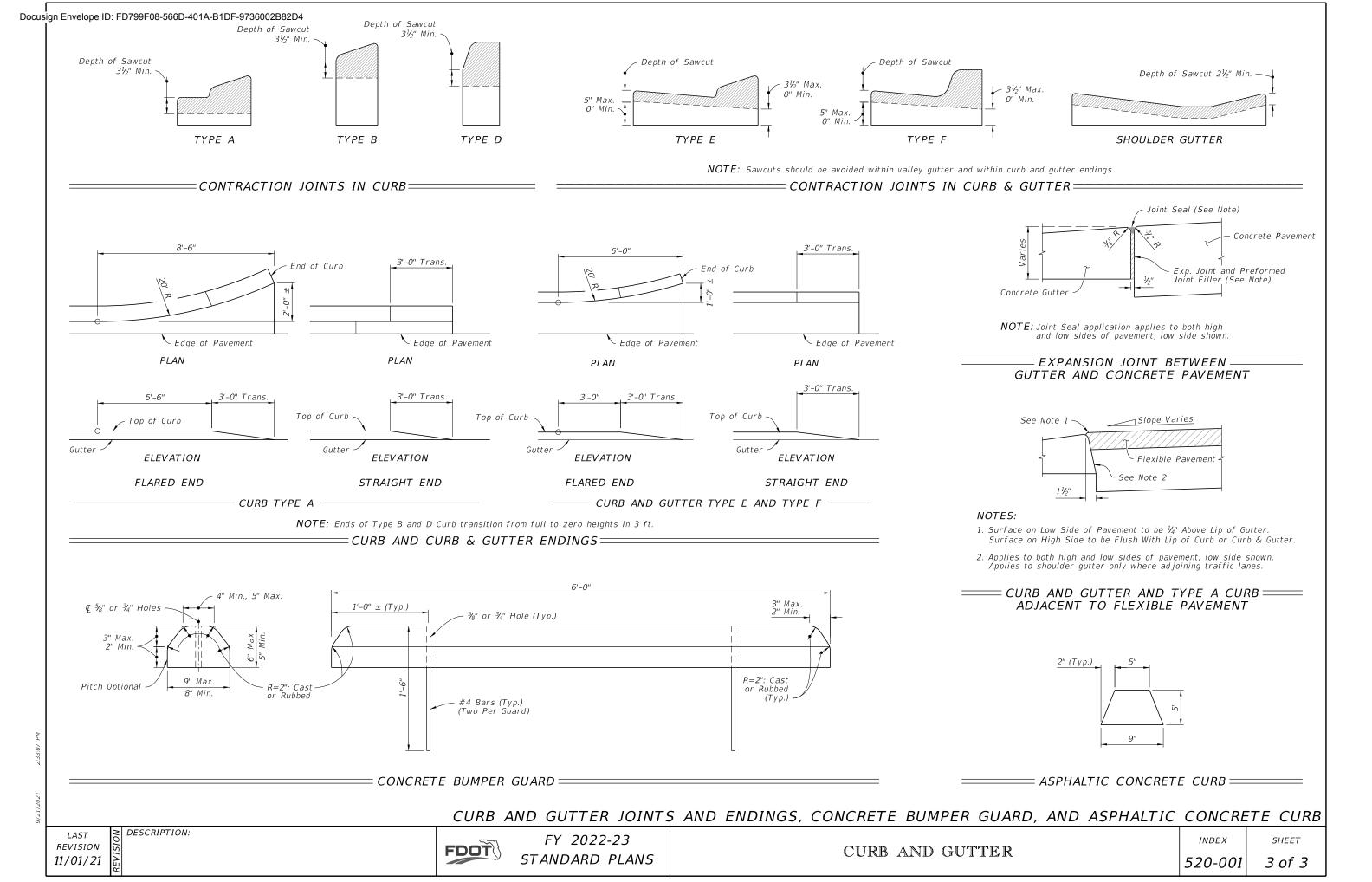
TYPE A, TYPE E, TYPE F, AND SHOULDER GUTTER (Other Types Similar)



====== CONCRETE BUMPER GUARD ====

≥ DESCRIPTION:





4'-0" DIAMETER

SECTION A-A FOR INLETS TYPE 1. 2. 3 & 4

Dates Description

5-74 Redrown-Chig

· INLET TOP HOOI FI CATION

FOR TYPE "E" CURB

CHECK

PROPOSED

CURB INLET

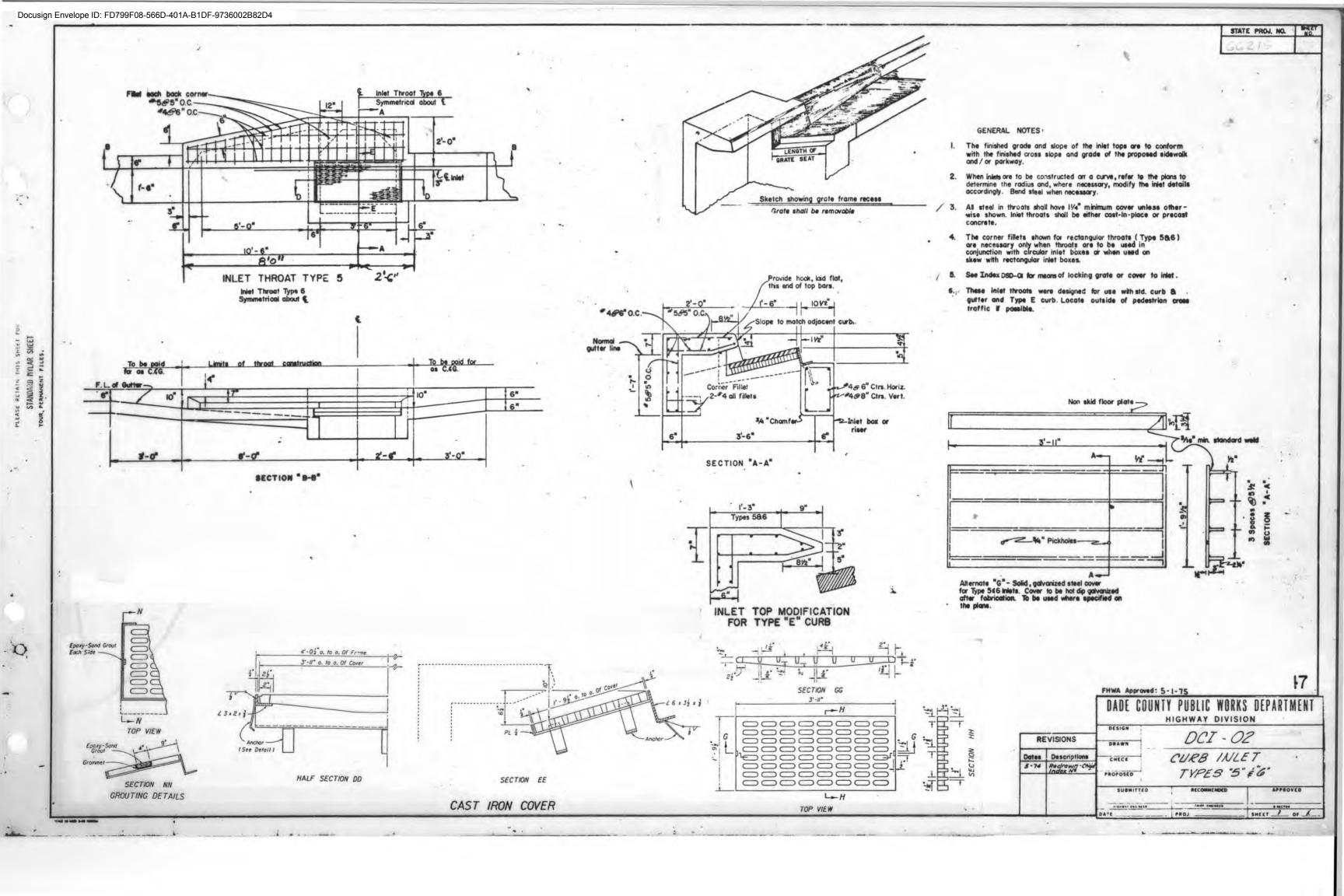
TYPES 1,2,3 & 4

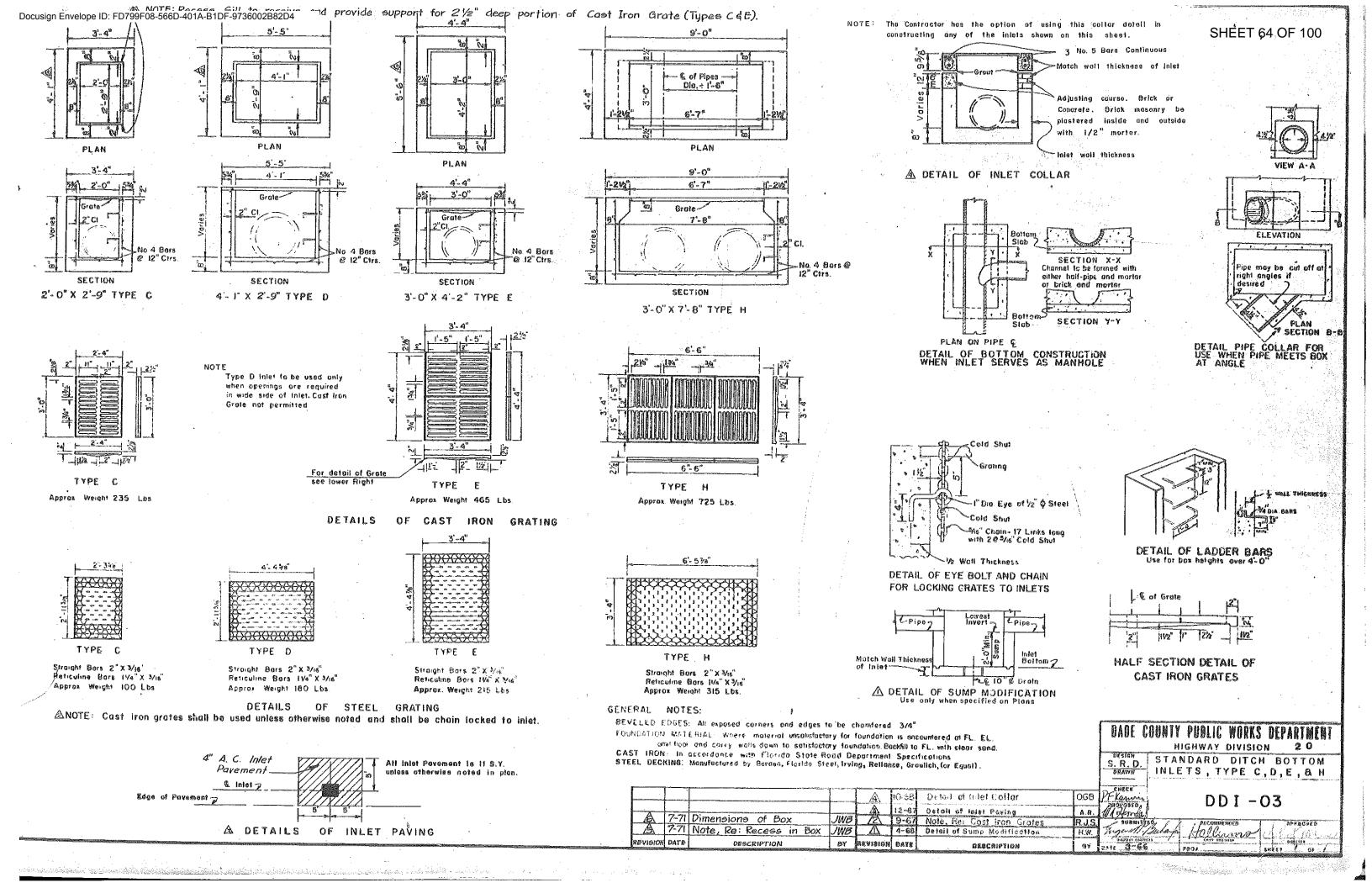
SHEET \_\_ OF \_\_\_

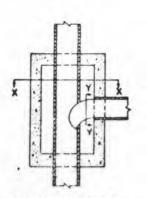
PROJ \_\_

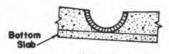
3'-6" DIAMETER

# For 5' Sidewalks change 4'-0" To 3'-3" and 2'-0" To 1'-3"









#### SECTION X-X

Channel to be formed with either half-pipe nortar or brick and mortar.



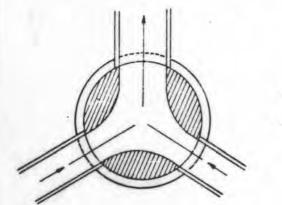
SECTION Y-Y

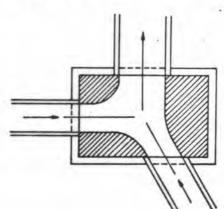
PLAN ON PIPE &

## DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE

#### GENERAL NOTE

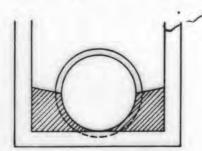
Mortar used to seal the pipe into the walls of precast units will be of such a mix that shrinkage will not cause leakage into or out of the units. Maximum opening for pipe shall be the O.D. of the pipe required plus 6".



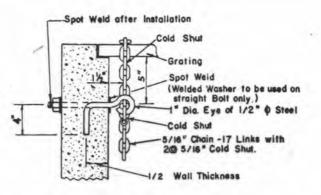


## DETAIL OF CHANNELIZATION

Note: Channelization required at all drainage structures with two or more pipes.

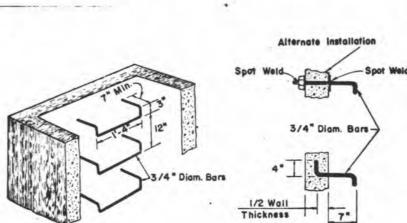


Smooth flow channels composed of concrete, or brick and mortar shall be constructed in the bottoms of all structures to a depth equal to half the diameter of the largest pipe.



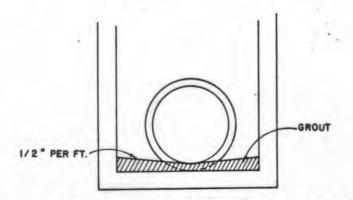
## DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS

Note: One required per inlet grate.



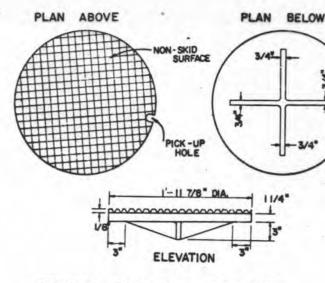
## DETAIL OF LADDER BARS

Use for box heights over 10'-0"

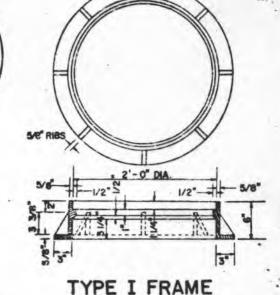


## ALTERNATE LOCATION OF PIPE IN STRUCTURE WHEN PREFABRICATED FLOOR SLAB IS USED

COMPLETE FLOW CHANNEL IS REQUIRED WHEN THERE IS FLOW THROUGH THE STRUCTURE

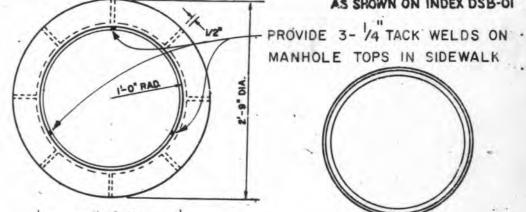


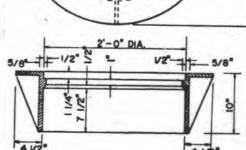
## COVER FOR ALL FRAMES (WHEEL LOADS H-20)

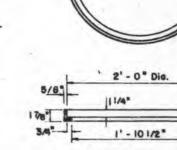


3 FLA

## FOR MANHOLES AS SHOWN ON INDEX DSB-OI







TYPE III FRAME For Type 7 & 8 Inlets

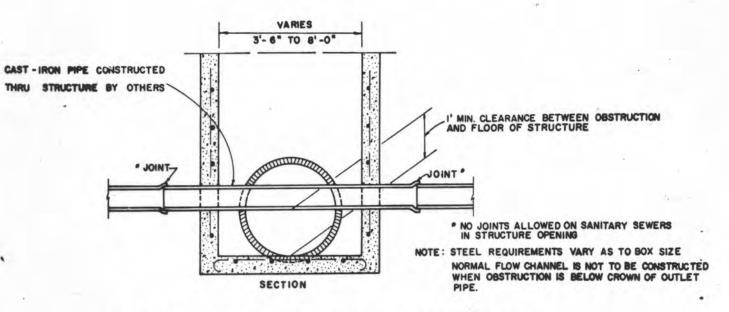
TYPE I FRAME For Type 1,2,3 &4 Inlets

CAST IRON

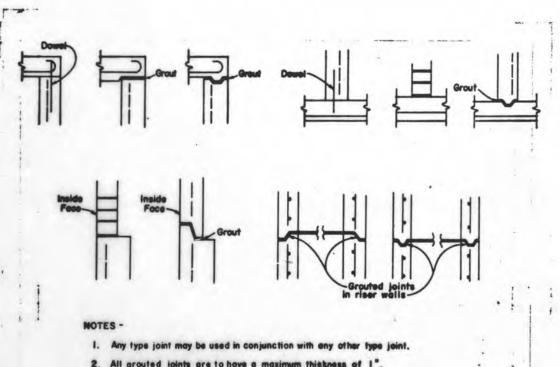
FRAME AND COVER DETAILS

Note: Tack Weld all Covers to Frames (3 places) as directed by the Engineer.

27 FHWA Approved: 5-1-75 DADE COUNTY PUBLIC WORKS DEPARTMEN HIGHWAY DIVISION 030-01 SUPPLEMENTARY DET. FOR MANHOLE & INLET STRUCT. SHEET \_/ OF \_2

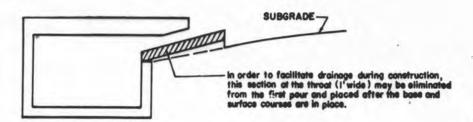


#### PIPE CONSTRUCTED DETAIL SHOWING THRU STORM SEWER STRUCTURE

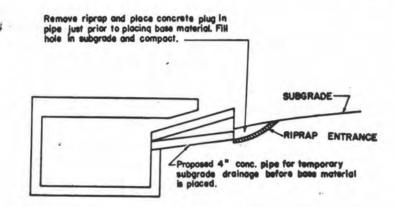


- 2. All grouted joints are to have a maximum thickness of 1"
- 3. Keyways are to be a minimum of 1 1/2" deep.
- Joint dowels are to be #4 bars, 12" long with a minimum of 6 bars po
- 5. Minimum cover an reinforcing bars is 1 1/4".

OPTIONAL CONSTRUCTION JOINTS



## ALTERNATE A



## ALTERNATE B

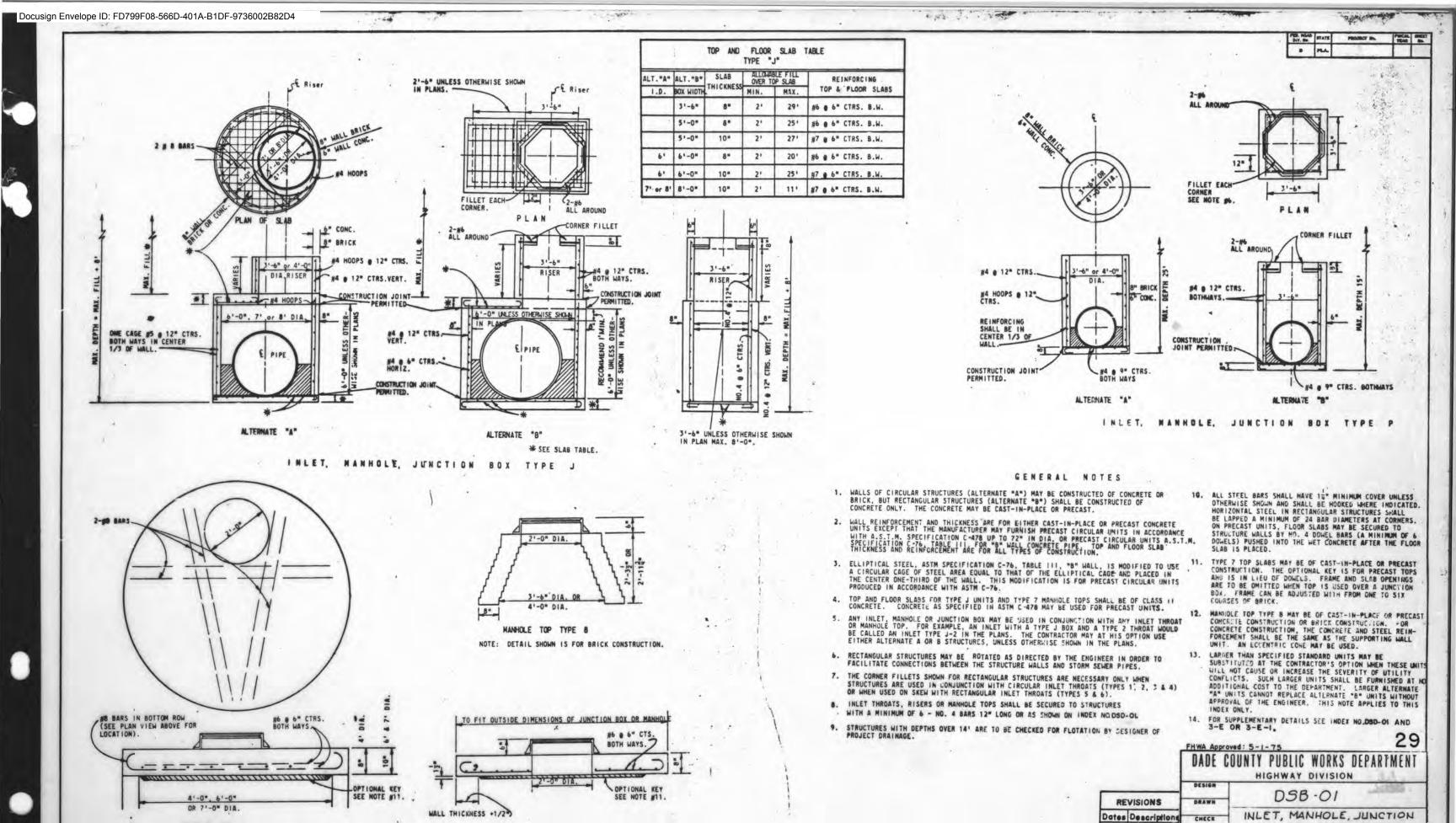
( Cost to be included in the unit price bid for intets.)

#### DETAIL OF TEMPORARY SUBGRADE DRAINS

(Optional with Contractor)

the mortar used to seal the pipe into the walls of the precast units will be of such a mix that shrinkage will not cause leakage into or out of the units. Maximu opening for pipe shall be max. reqd O D+6.

|       |             | PHWA Approve | d: 5-1-7                | 5               | 28           |  |  |  |
|-------|-------------|--------------|-------------------------|-----------------|--------------|--|--|--|
|       |             | DADE         |                         | PUBLIC WORK     | S DEPARTMENT |  |  |  |
|       | 141         | DESIGN       |                         | 050-01          | 1            |  |  |  |
|       | BEYISIONS   | DRAWN        | 7 050 01                |                 |              |  |  |  |
| Pates | Presiptions |              | - 00: -: (F: (F) OFF -0 |                 |              |  |  |  |
| 2-75  | REDRAWN     | CHECK        | SUPPLEMENTARY DET. FOR  |                 |              |  |  |  |
| 1     |             | PROPOSED     | MANA                    | OLE & INLET     | STRUCTURES   |  |  |  |
|       |             | SUBMIT       | TED                     | RECOMMENDED     | APPROVED     |  |  |  |
|       |             | MICHOAY ENGI | nces                    | Coult Laborates | \$100C700    |  |  |  |
|       |             | DATE         |                         | PROJ            | SHEET 2 OF 2 |  |  |  |



JUNCTION BOX OR

(NON-TRAFFIC)

MANHOLE TOP TYPE 7-NT
FOR USE WHEN TOP SLAB IS NOT SUBJECTED TO WHEEL LOADS

JUNCTION BOX OR

MANHOLE TOP TYPE 7-T

FOR USE WHEN TOP SLAB IS SUBJECTED TO WHEEL LOADS (H-20)

(TRAFFIC)

10-74 Changed Indes

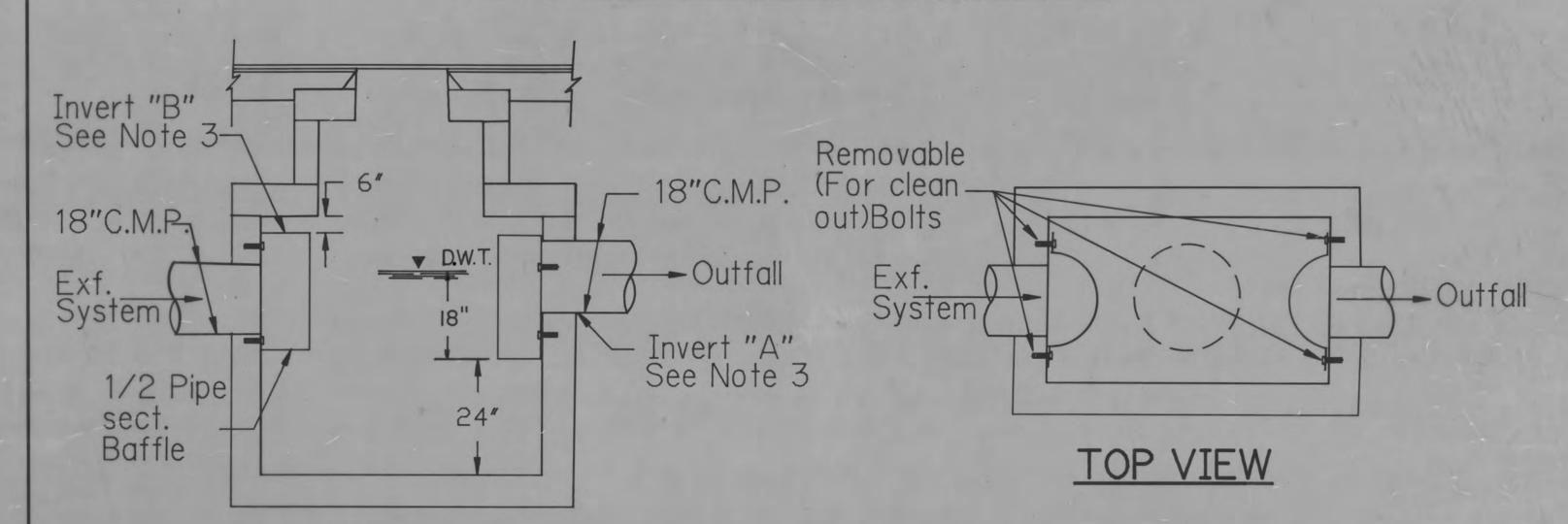
ROPOSED

BOX TYPES J & P

PROJ.

SHEET\_\_\_ OF\_\_

# POLLUTION CONTROL STRUCTURE



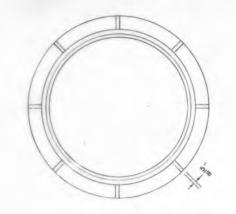
# SIDE VIEW

## NOTES:

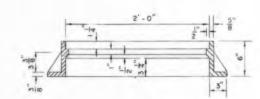
- 1. All dimensions are minimum.
- 2. Standard 3'-6" x6"J"Box. See Index DSB-01 for details.
- Invert "A" to be set at weir elevation. Where not possible, invert "B" to be weir elevation with bottom of 1/2 pipe closed. If neither possible, next box into exfiltration system to have weir.
- 4. There will be a neoprene seal between the structure wall and 1/2 pipe.

29.2

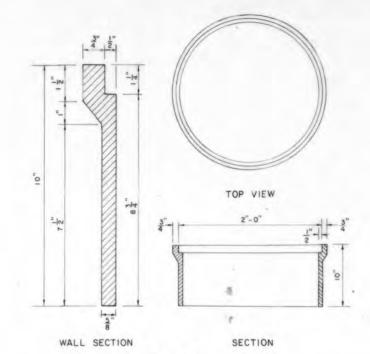
|               |                | 20.2        |
|---------------|----------------|-------------|
| DADE COUNT    | Y PUBLIC WORK  | S DEPARTMEN |
| +             | HIGHWAY DIVISI | ON 29.      |
| DESIGN        |                |             |
| ORAWN         | P. C. S.       | -1          |
| CHECK         |                |             |
| PROPOSED      |                |             |
| SUBMITTED     | RECOMME NOED   | APPROVED    |
| ************* | to bearing     |             |
| ATE JULY 1985 | PROJ           | SHEET OF    |



TOP VIEW

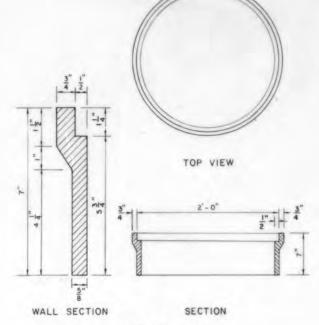


SECTION TYPE I FOR MANHOLES

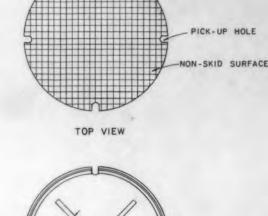


TYPE I FOR CURB INLETS TYPES 1, 2, 3, & 4

CAST IRON FRAMES

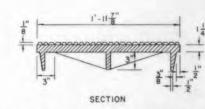


TYPE III



DADE COUNTY PUBLIC WORKS DEPT. HIGHWAY DIVISION

BOTTOM VIEW



## COVER FOR ALL FRAMES

## NOTES (TOPS, FRAMES AND COVER):

ALL STEEL BARS SHALL BE NEW BARS IN ACCORDANCE WITH ASTM A 615, GRADE 60 AND HAVE I &" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED.

2. MANHOLE TOP TYPE 7 SLABS SHALL BE OF CLASS II CONCRETE (fc'= 3 400 P.S.1.). \*

3. MANHOLE TOP TYPE 7 SLABS MAY BE OF CAST-IN-PLACE OR PRECAST CONSTRUCTION. THE OPTIONAL KEY IS FOR PRECAST TOPS AND IN LIEU OF DOWELS. FRAME AND SLAB OPENINGS ARE TO BE OMITTED WHEN TOP IS USED OVER A JUNCTION BOX. FRAMES CAN BE ADJUSTED WITH FROM ONE TO SIX COURSES OF BRICK.

MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST CONCRETE CONSTRUCTION OR BRICK CONSTRUCTION. FOR CONCRETE CONSTRUCTION, THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT. AN ECCENTRIC CONE MAY BE USED.

5. MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS AS SHOWN ON SHEET NO. 2. OF THIS DETAIL.

6. ALL COVERS TO BE TACK WELDED TO FRAMES AT THIRD POINTS OR GROUTED AT THIRD POINTS

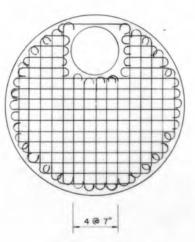
WITH EXPOXY (TOTAL ELEVEN (II) DUNCES OF MIXED EPOXY).

7. THE 212 LB. COVER IS THE REPLACEMENT FOR ALL PREVIOUS 11/4" DEEP FRAMES (TRAFFIC TYPE). THE 185 LB. COVER IS THE REPLACEMENT FOR ALL PREVIOUS 1/2" DEEP FRAMES (NON-TRAFFIC TYPE).

FOR CURB INLETS TYPES 7 & 8

# 2 NO. 8 BARS

ALL REINFORCEMENT No. 6 BARS EXCEPT 6 No. 8 BARS SHOWN. BARS SPACED @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDDED IN ACCORDANCE WITH THE SLAB REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS, SHEET NO. 2 of 2 EXCEPT ALL NO. 8 BARS AND NO. 6 BARS AROUND MANHOLE OPENING SHALL BE HOOKED.



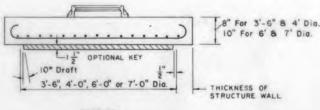
REINFORCEMENT PLAN

REINFORCING BARS @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDED IN ACCORDANCE WITH THE SLAB. REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS. SHEET 3 OF 3, EXCEPT BARS AROUND MANHOLE OPENING SHALL BE

| BAR SIZE | TOP DIAMETER |
|----------|--------------|
| No. 4    | 3'-6" B 4'   |
| No. 5    | 6'           |
| No. 6    | 7'           |
| 11001    |              |

#### REINFORCEMENT PLAN

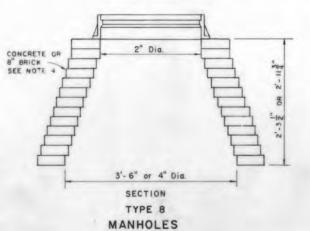
4@7



TYPE 7-T (TRAFFIC) (H-20)

10° Draft THICKNESS OF WALL SECTION

TYPE 7-NT (NON-TRAFFIC)



STRUCTURE TOPS

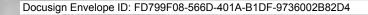
WEIGHT OF CASTINGS TYPE I 126 Lbs. TYPE II 134 Lbs. 98 Lbs. COVER 212 Lbs.

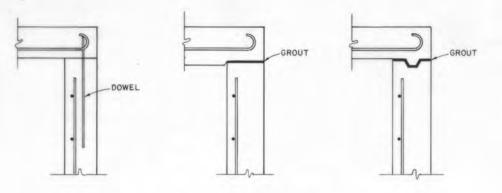
DADE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY DIVISION SUPPLEMENTARY DETAILS FOR S.R.D. MANHOLES AND INLETS P. B. PROPOSED ummuell TE NOV. 1983

SECTION

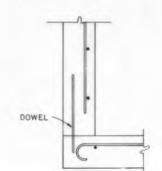
MANHOLES OR JUNCTION BOXES

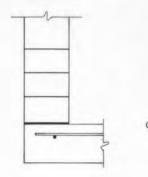
32

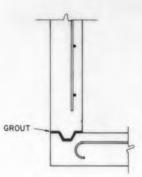


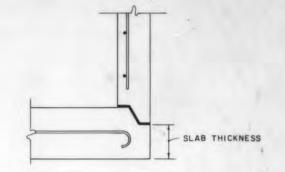




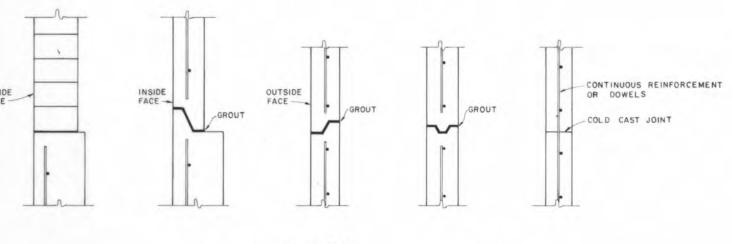




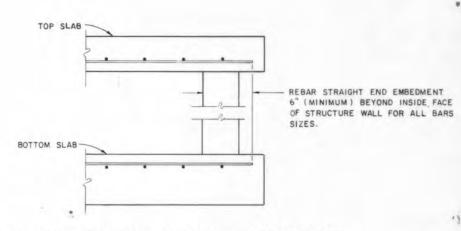




BOTTOM SLABS TO WALLS



WALL JOINTS



REBAR STRAIGHT END EMBEDMENT IN LIEU OF ACI STANDARD HOOKS FOR TOP AND BOTTOM SLABS

- I. ONE OR MORE TYPES OF JOINTS MAY BE USED IN A SINGLE STRUCTURE, EXCEPT BRICK WALL STRUCTURE. BRICK WALL CONSTRUCTION IS PERMITTED ON CIRCULAR UNITS ONLY
- 2. ALL GROUTED JOINTS ARE TO HAVE A MAXIMUM THICKNESS OF I".
- 3. KEYWAYS ARE TO BE A MINIMUM OF 12" DEEP.
- 4. JOINT DOWELS ARE TO BE # 4 BARS, 12" LONG WITH A MINIMUM OF 6 BARS PER JOINT, APPROXIMATELY EVENLY SPACED.
- 5. MINIMUM COVER ON REINFORCING BARS IS 14".
- 6. REBAR STRAIGHT AND EMBEDMENT MAY BE USED IN LIEU OF ACI STANDARD HOOKS FOR TOP AND BOTTOM SLABS EXCEPT WHEN HOOKS ARE SPECIFICALLY CALLED FOR IN PLANS OR STANDARD DRAWINGS.

OPTIONAL CONSTRUCTION JOINTS

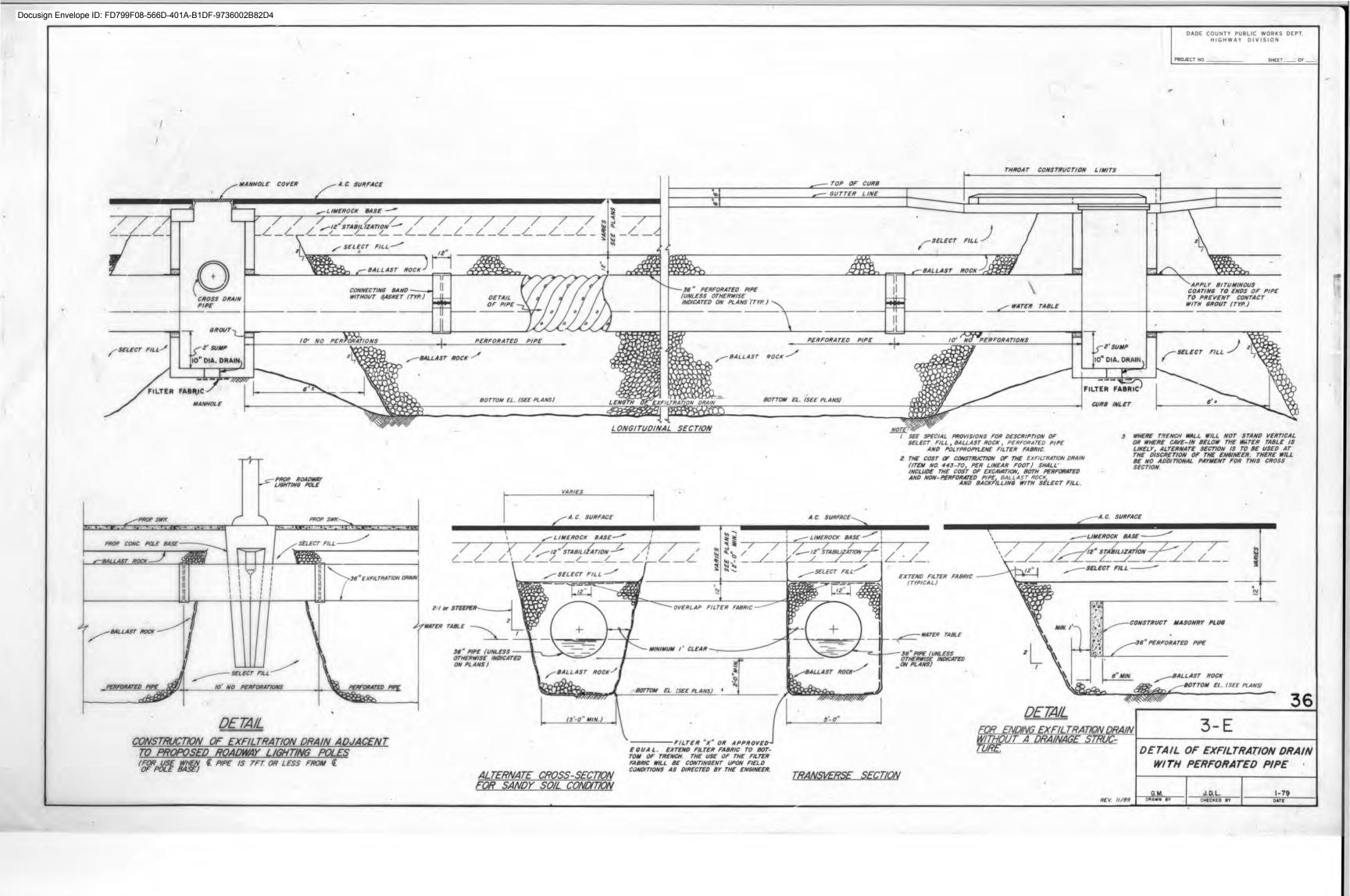
## GENERAL NOTES

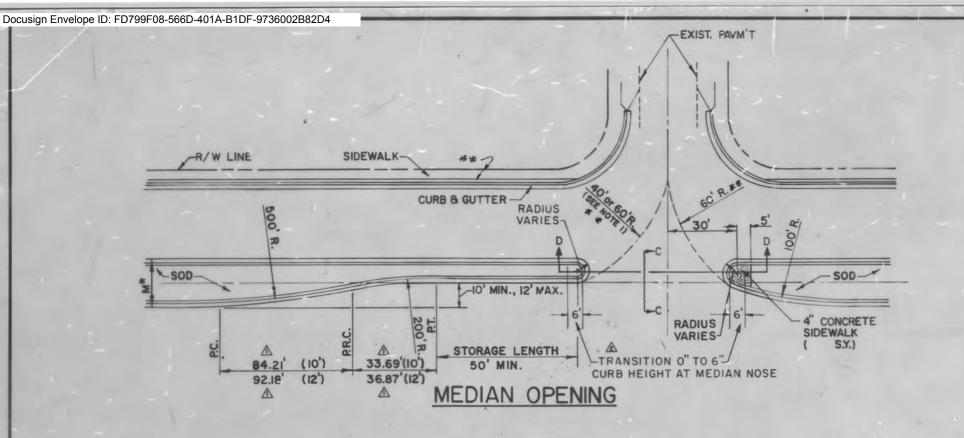
- FOR SQUARE OR RECTANGULAR PRECAST DRAINAGE STRUCTURES EITHER DEFORMED OR SMOOTH WELDED WIRE FABRIC MAY BE USED BASED ON SUBSTITUTION OF EQUAL STEEL AREAS PROVIDED:
  - a) THE SMOOTH WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A-185, AND DEFORMED WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A-497.
  - b) WIDTH AND LENGTH OF THE UNIT IS FOUR TIMES THE SPACING OF THE CROSS WIRES.
  - c) WIRE FABRIC SHALL BE CONTINUOUS AROUND THE BOX, SPLICED AT QUARTER POINT (S) WITH OVERLAP OF NOT LESS THAN THE SPACING OF CROSS WIRES PLUS TWO INCHES.
- WELDING OF SPLICES AND LAPS IS PERMITTED. THE REQUIREMENTS AND RESTRICTIONS PLACED ON WELDING IN AASHTO M-259 SHALL APPLY.
- 3. HORIZONTAL STEEL IN RECTANGULAR STRUCTURES SHALL BE LAPPED A MINIMUN OF 24 BAR DIAMETER AT CORNERS.

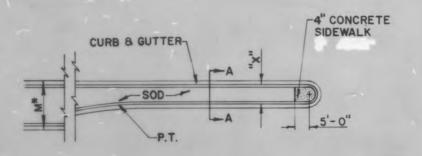
| DARE O         | AUUTV BUBLIA |                   |
|----------------|--------------|-------------------|
| DADE C         |              | ORKS DEPARTMENT   |
| 1              | HIGHWAY D    | IVISION           |
| S.R.D.         | SUPPLEMENTA  | ARY DETAILS FOR   |
| F.B.           | MANHOLES     | AND INLETS        |
| W. Stevens     | SMI-02       |                   |
| PROPOSED       | 0            | -                 |
| W. Bald        | RECOMMEND    | approved withwell |
| HIGHWAY ENGINE | 983 PROJ     | SHEET 2 OF 2      |

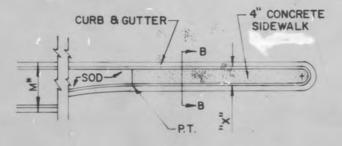
33

SHEET \_\_\_ OF







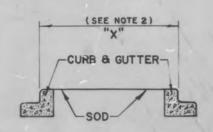


DETAIL 'A'

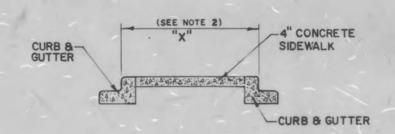
DETAIL 'B'

## NOTES:

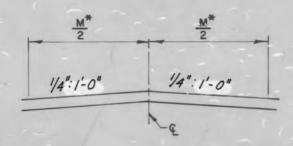
- I. MINOR INTERSECTIONS 40'R. (LOCAL STREETS)
  MAJOR INTERSECTIONS 60'R. (ARTERIAL STREETS)
- 2. WHEN DIMENSION "X" IS MORE THAN 6'-0" USE DETAIL A; WHEN LESS THAN 6'-0" USE DETAIL B



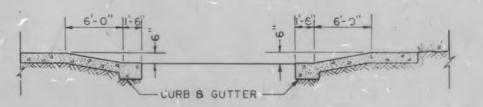
## SECTION A-A



## SECTION B-B



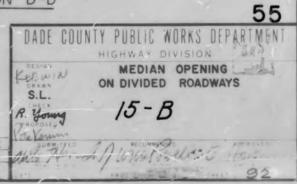
## SECTION C-C



## SECTION D-D

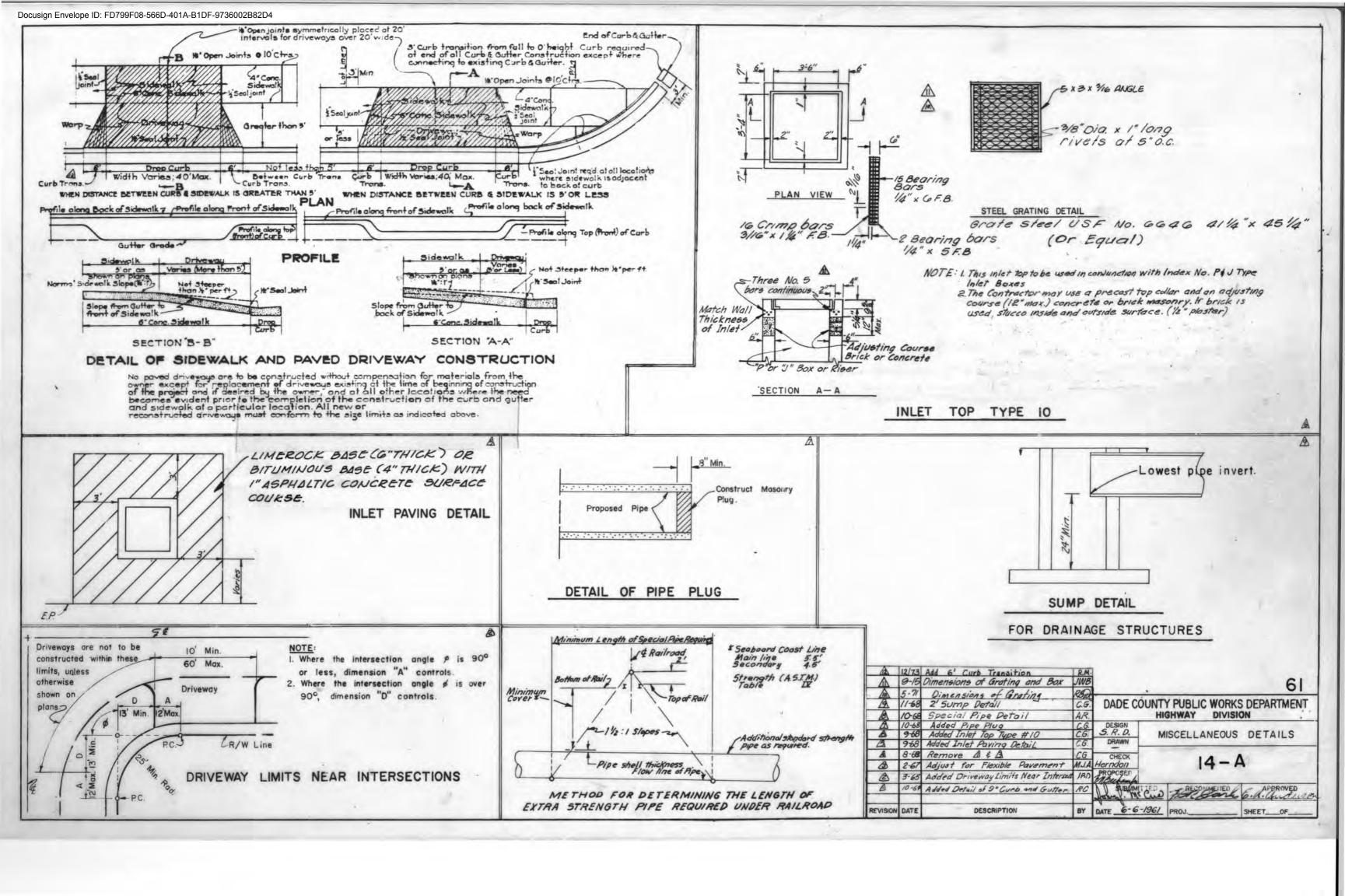
A 2.2.75 Curb Height Transition

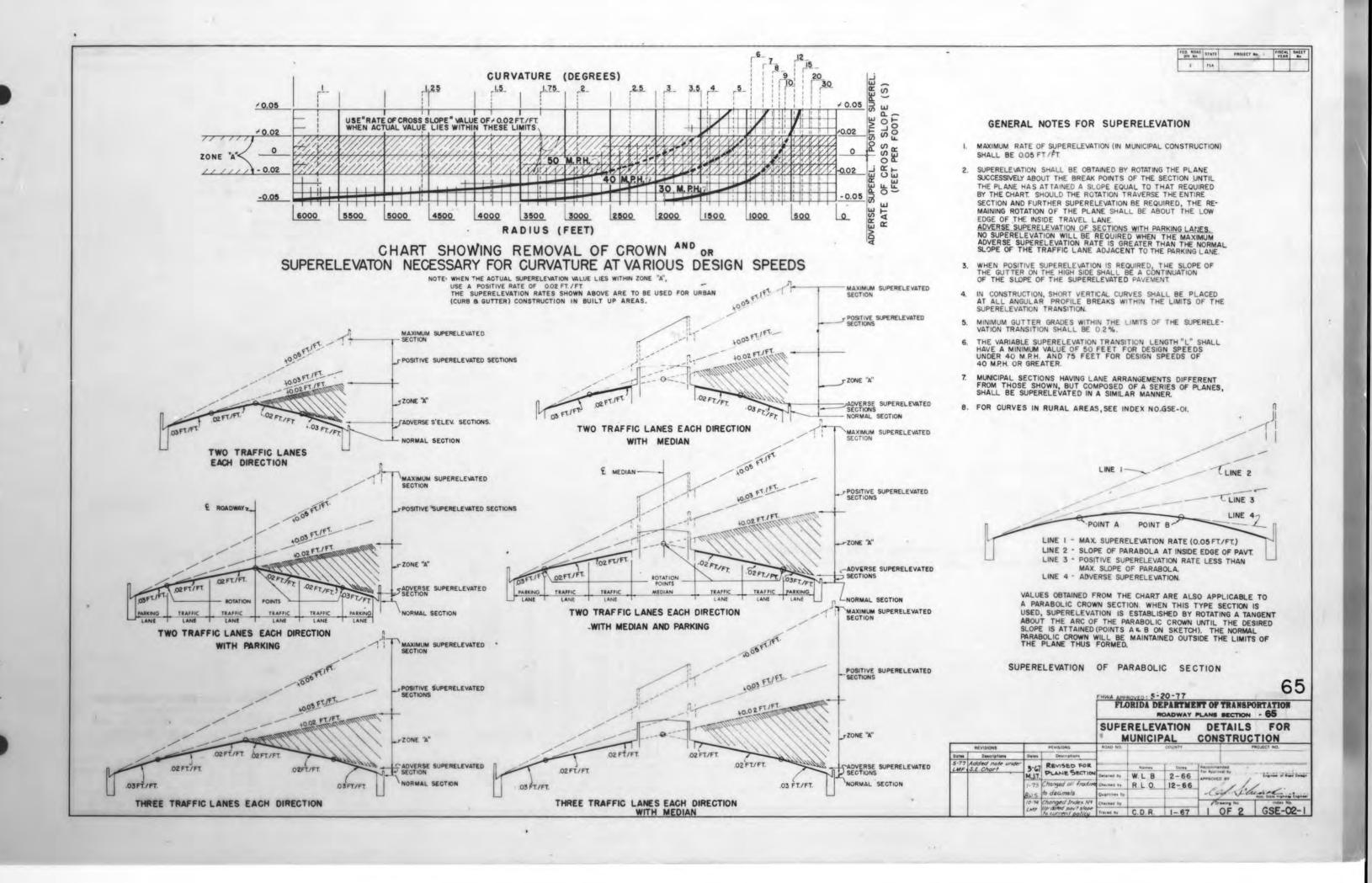
△ 3-15-10 Distance, P.C. P.P.C & P.T.

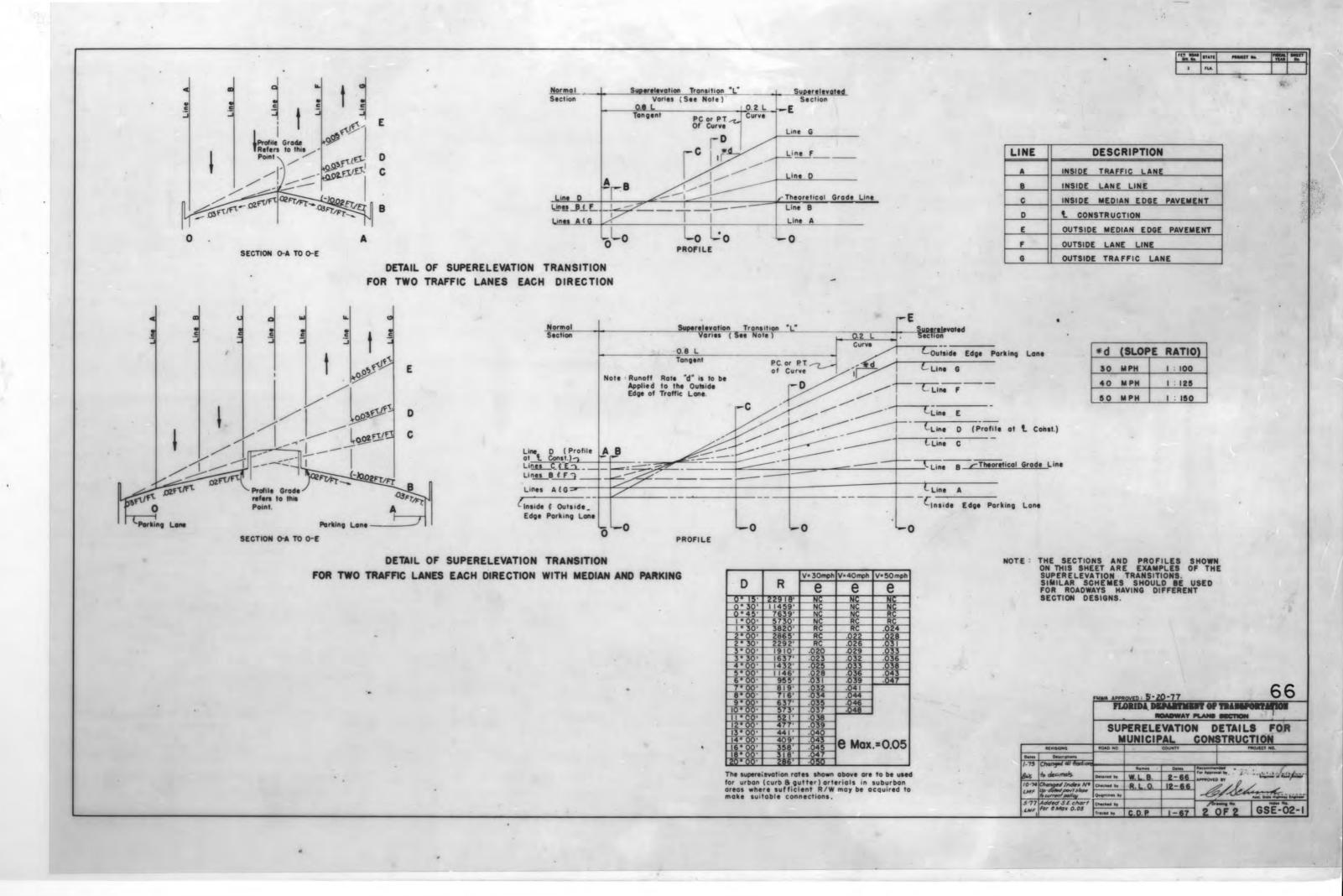


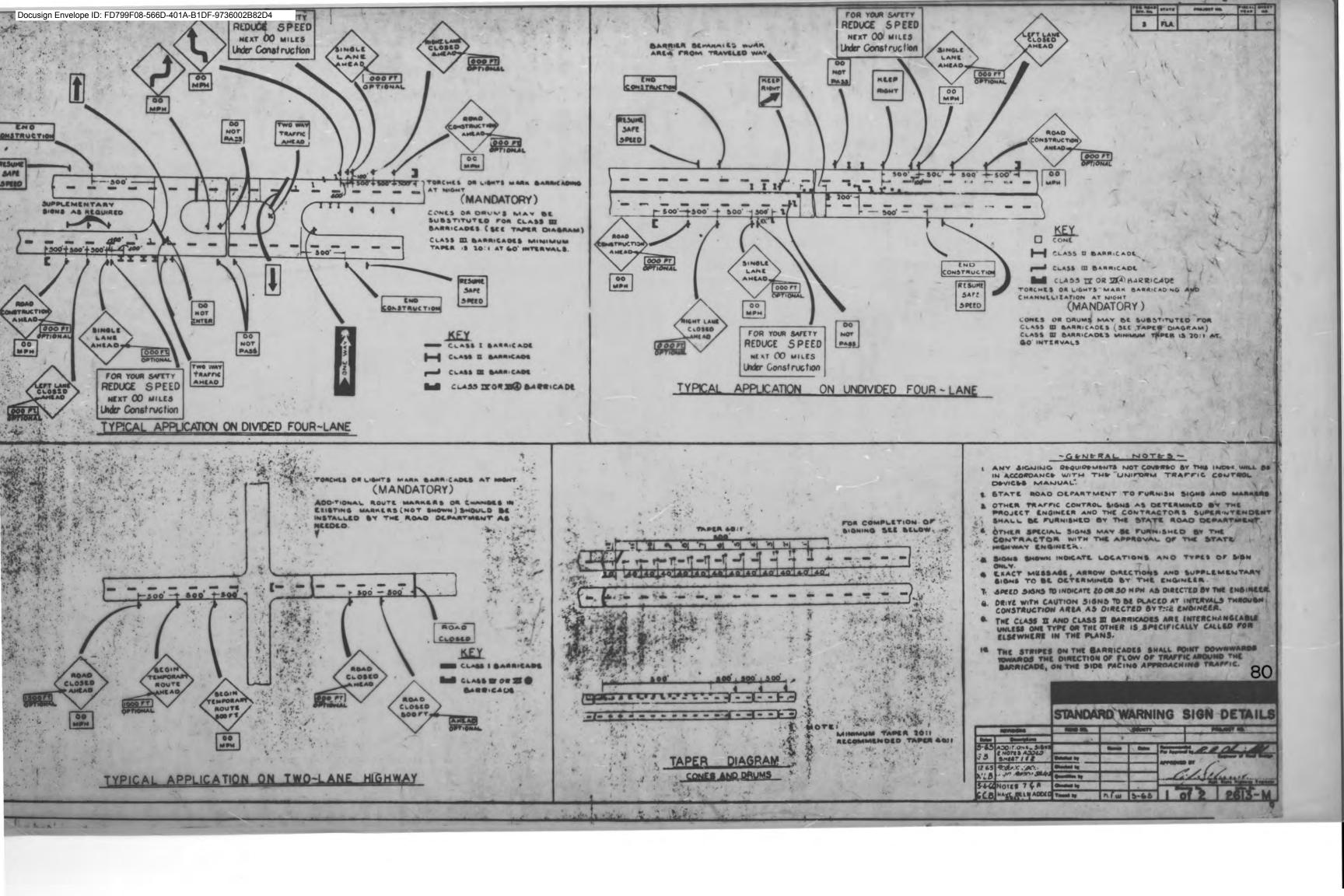
\* M=TOTAL EFFECTIVE MEDIAN WIDTH

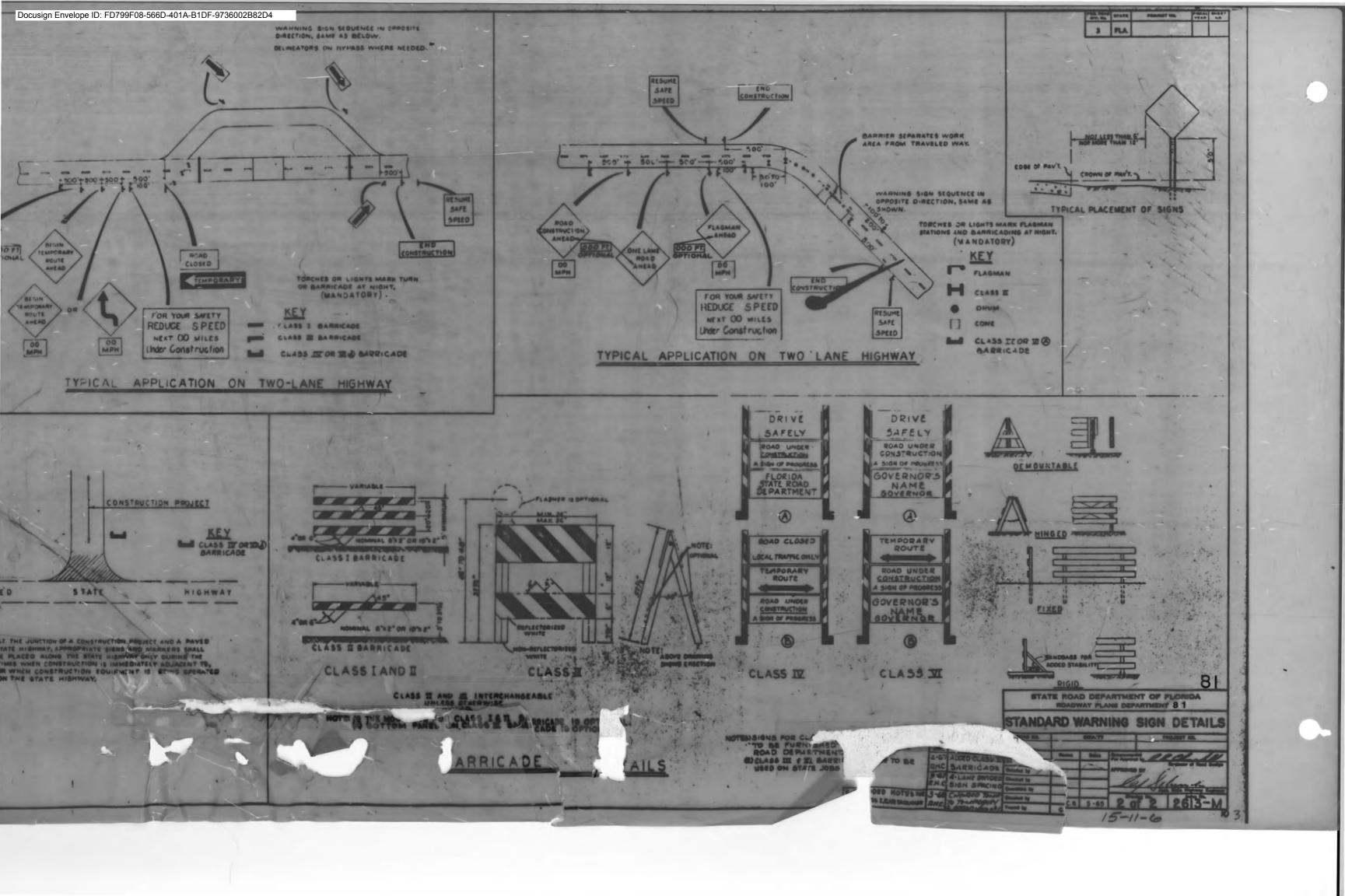
\*\* THESE STEMS MAY NOT BE TYPICAL, SEE CONSTRUCTION PLANS FOR PROPER DETAILING.

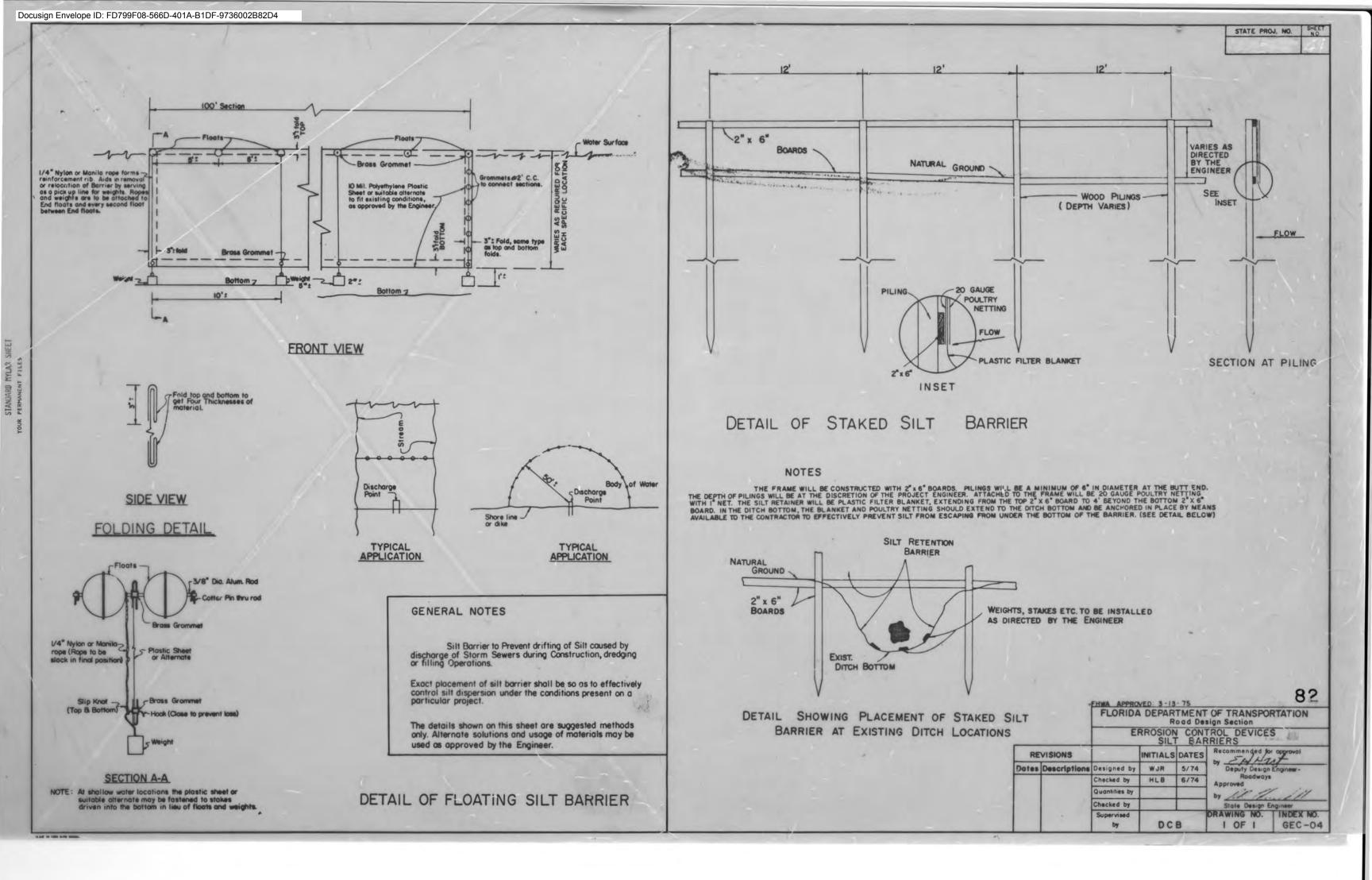




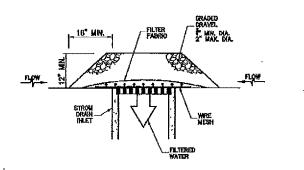


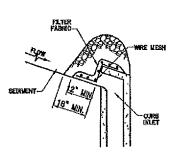






MANI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPT.





DROP INLET PROTECTION-GRAVEL

**GURB INLET PROTECTION-GRAVEL** 

GRAVEL APPLICATIONS (TYP.) OR APPROVED ALTERNATIVE

#### NOTES FOR INLET PROTECTION GRAVEL:

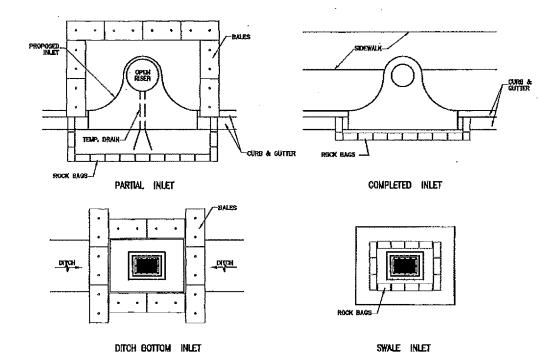
#### 1- INSTALLATION/APPLICATION CRITERIA:

- PLACE WIRE MESH (WITH \$\frac{1}{2}\$ INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE \$N\$ ALL DIRECTIONS.
   PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
   PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

#### 2- MAINTENANCE:

- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
   REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
   REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF OHE ACRE.
   EXCESS FLOWS MAY BYPASS THE RILLET REQUIRING DOWN GRADIENT CONTROLS.
   PONDING WILL OCCUR AT INLET.



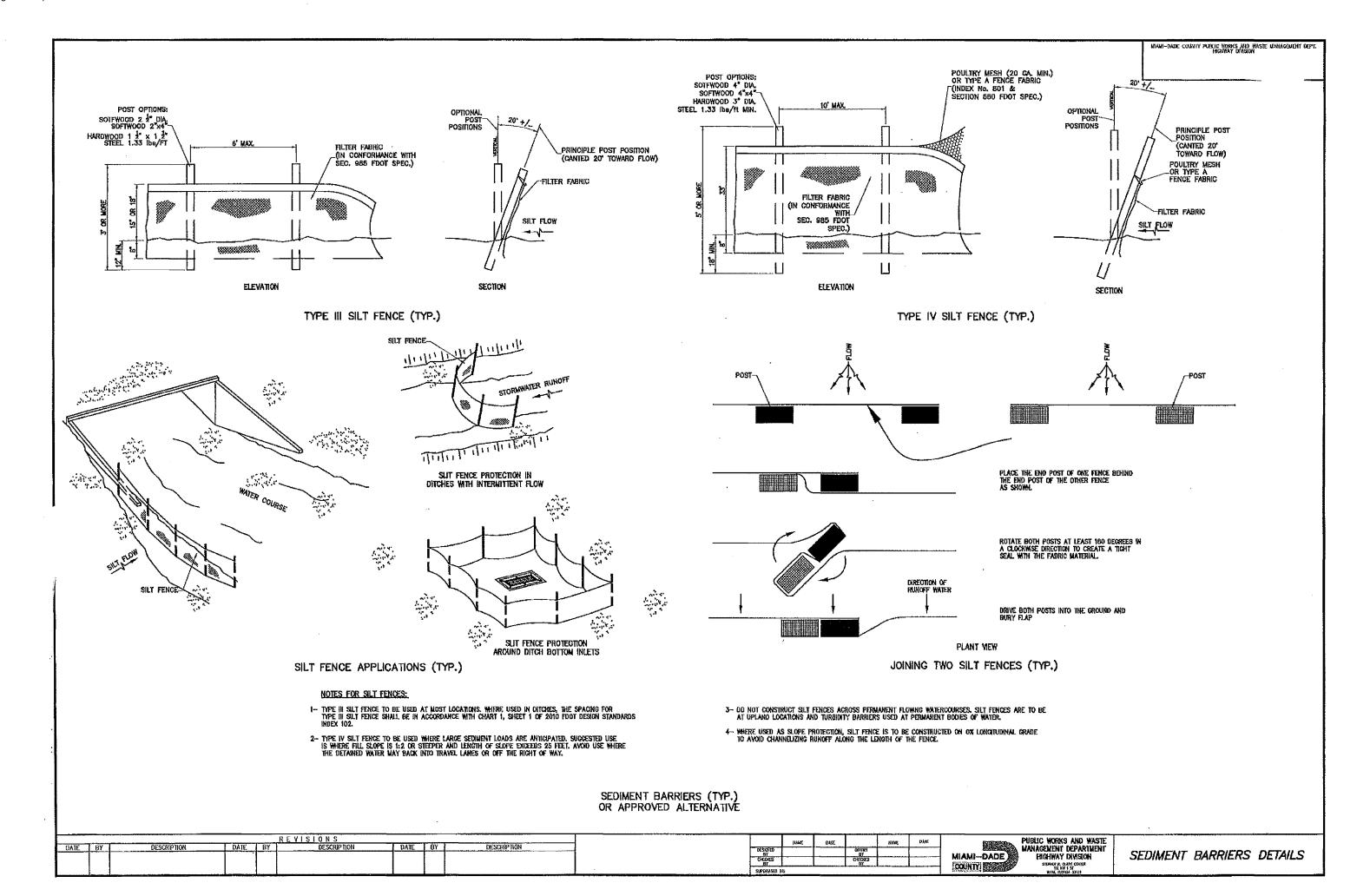
#### PROTECTION ALONG INLETS WITH ROCK BAGS BALES OR APPROVED ALTERNATIVES

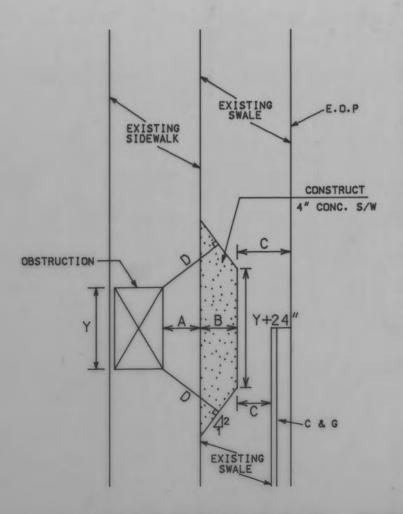
#### NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS:

- 1-TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2—BALES SHALL BE ANCHORED WITH TWO (2) 1"x2" (or 1" dia.) x 4" WOOD STAKES, STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- 3-RAILS AND POSTS SHALL BE 2"x4" WOOD, OTHER WATERIALS PROYIDING EQUIVALENT STRENGTH WAYBE USED IF APPROYED BY THE ENGINEER,
- 4-ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
- 6-WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

INLET PROTECTION SYSTEM (TYP.) OR APPROVED ALTERNATIVE

| 1    |    |             |      |    | REVISIONS   |      |    |             |   |                | MARE | OATE |         | 11,1145 | DATE | 19992255   | PUBLIC WORKS AND WASTE  | \$ 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 |
|------|----|-------------|------|----|-------------|------|----|-------------|---|----------------|------|------|---------|---------|------|------------|-------------------------|--|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | 8Y | DESCRIPTION | 1 | DESCRETO<br>BY |      |      | DRAIKE  |         |      | MIAMILDADE | MANAGEMENT DEPARTMENT   | INLET PROTECTION SYSTEMS                 |
| ł    |    |             |      |    |             |      |    |             |   | CHECKEE<br>BY  |      |      | CHECKER | L       | l    | COUNTY     | SERVEN STATES OF SERVEN | DETAILS                                  |





# SIDEWALK WIDENING DETAIL

CRITERIA TO BE USED TO AVOID RELOCATING EXISTING OBSTRUCTIONS WHERE SWALE AREA IS AVAILABLE:

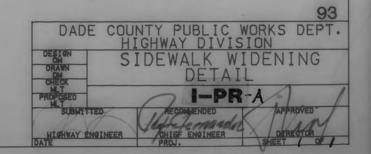
 $Y \leqslant 24$ " AND A < 32" OR Y > 24" AND A < 36"

THEN: A+B= 36" MIN. B= 24" MIN.

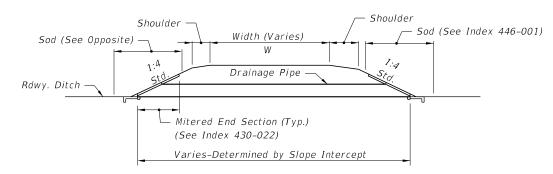
FOR C&G SECTIONS, IF C ≤24" THEN "B" SHALL EXTEND TO BACK OF CURB.

C≥4' FOR SECTIONS WITHOUT CURB & GUTTER

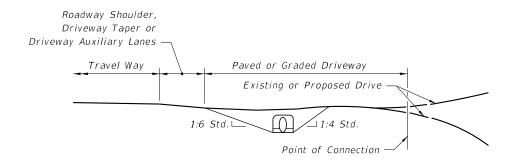
D= 36" MIN.



#### PLAN

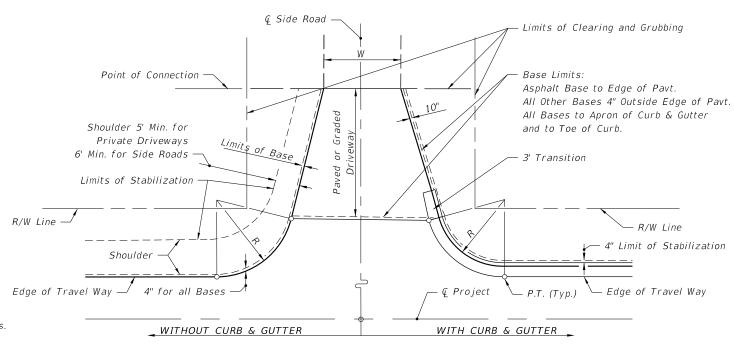


#### DRAINAGE SECTION



#### DRIVEWAY PROFILE AND END VIEW

= FLUSH SHOULDER ROADWAY - DRIVEWAY CONSTRUCTION ====



= LIMITS OF CLEARING & GRUBBING.=STABILIZING AND BASE AT DRIVEWAYS

PLAN

#### DRIVEWAY ENTRANCES NOTES:

- 1. See Plans for Driveway Width (W) and Return Radius (R).
- 2. See the Plans for drainage pipe size and length or as determined by the Engineer. The size will be no less than 15" diameter or equivalent.
- 3. Stable material may be required for graded driveways to private property as directed by the Engineer in accordance with Specification 102-8.
- 4. The driveway pavement requirement at graded connections may be waived for connections serving one or two homes or field entrances with less than 20 trips per day, or 5 trips per hour as approved by the Engineer, or when not shown in the Plans.
- 5. Point of Connection:
- a. Construct paved driveways for all paved connecting facilities. The connecting point will be determined by the Engineer.
- b. Construct paved driveways for all business, commercial, industrial or high volume residential graded connecting facilities. Construct the connecting point 30'-0' from edge of travel way or at R/W line, whichever is less.
- c. Construct paved driveways for all side road connections. The R/W is the connecting point.

**REVISION** 11/01/18

DESCRIPTION:

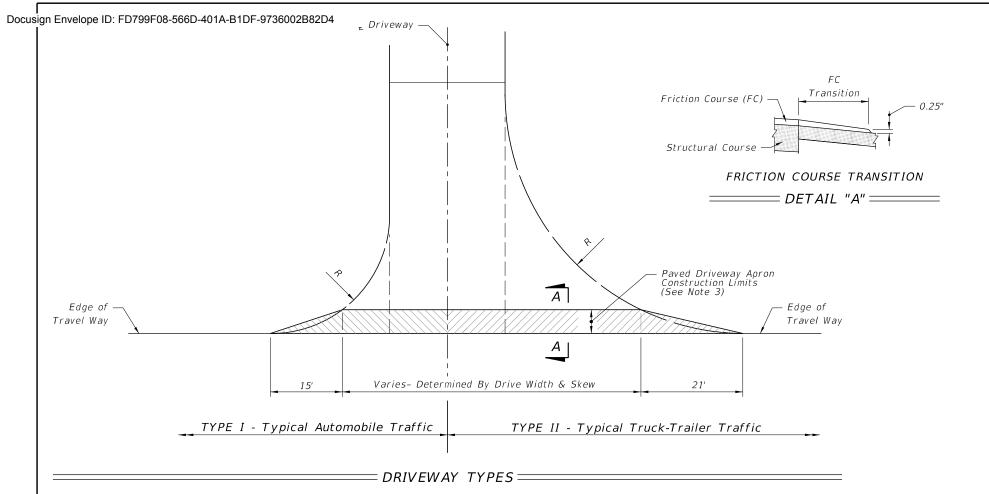
FDOT

FY 2022-23 STANDARD PLANS

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SHEET

330-001 1 of 2



## AREAS FOR ONE 5' DEEP

|       | DRIVEV       | VAY APRO | ON (SY) |         |  |  |  |  |  |
|-------|--------------|----------|---------|---------|--|--|--|--|--|
| Drive | Intersection |          |         |         |  |  |  |  |  |
| Width | Noi          | mal      | Skewed  |         |  |  |  |  |  |
| (Ft.) | Type I       | Type II  | Type I  | Type II |  |  |  |  |  |
| 12    | 26           | 51       | 31      | 60      |  |  |  |  |  |
| 14    | 27           | 52       | 33      | 61      |  |  |  |  |  |
| 16    | 28           | 53       | 34      | 63      |  |  |  |  |  |
| 18    | 29           | 54       | 35      | 64      |  |  |  |  |  |
| 20    | 31           | 55       | 37      | 65      |  |  |  |  |  |
| 22    | 32           | 56       | 38      | 67      |  |  |  |  |  |
| 24    | 33           | 57       | 39      | 68      |  |  |  |  |  |
| 26    | 34           | 58       | 40      | 69      |  |  |  |  |  |
| 28    | 35           | 59       | 42      | 70      |  |  |  |  |  |
| 30    | 36           | 61       | 43      | 72      |  |  |  |  |  |
| 32    | 37           | 62       | 44      | 73      |  |  |  |  |  |
| 34    | 38           | 63       | 46      | 74      |  |  |  |  |  |
| 36    | 39           | 64       | 47      | 76      |  |  |  |  |  |
| 38    | 41           | 65       | 48      | 77      |  |  |  |  |  |
| 40    | 42           | 66       | 49      | 78      |  |  |  |  |  |
| 42    | 43           | 67       | 51      | 79      |  |  |  |  |  |
| 44    | 44           | 68       | 52      | 81      |  |  |  |  |  |
| 46    | 45           | 69       | 53      | 82      |  |  |  |  |  |
| 48    | 46           | 71       | 55      | 83      |  |  |  |  |  |
| 50    | 47           | 72       | 56      | 85      |  |  |  |  |  |
| 52    | 48           | 73       | 57      | 86      |  |  |  |  |  |
| 54    | 49           | 74       | 58      | 87      |  |  |  |  |  |
| 56    | 51           | 75       | 60      | 88      |  |  |  |  |  |
| 58    | 52           | 76       | 61      | 90      |  |  |  |  |  |
| 60    | 53           | 77       | 62      | 91      |  |  |  |  |  |

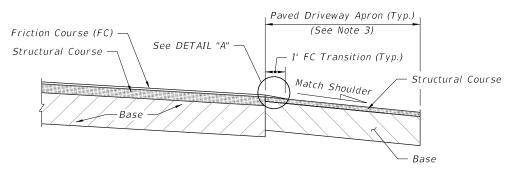
#### MATERIAL TYPES AND THICKNESSES FOR PAVED CONNECTIONS

|            | Mataniala                             | Minimum Th  | num Thickness (in.) |  |  |
|------------|---------------------------------------|-------------|---------------------|--|--|
| Course     | Materials                             | Connections | Roadway*            |  |  |
| Structural | Asphaltic Concrete                    | 11/2"       | 11/2"               |  |  |
| Bases      | Optional Base (See Specification 285) | 0.B.G. 2    | 0.B.G. 3            |  |  |
|            |                                       |             |                     |  |  |

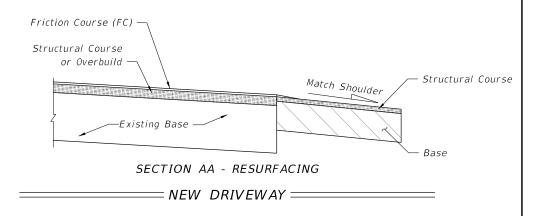
\* Travel way flares (bypass lanes), auxiliary lanes serving more than a single connection, and all median crossovers including their auxiliary lanes and/or transition tapers.

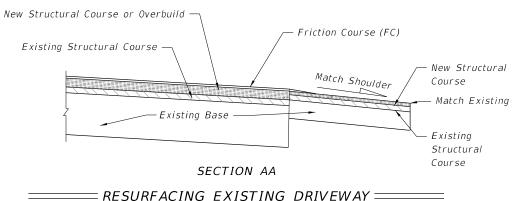
#### **NOTES**

- 1. Use same material for driveway structural course and roadway overbuild or structural course, except as approved by the Engineer for graded connections. Other Department-approved equivalent pavements may be used at the discretion of the Engineer.
- 2. Auxiliary lanes and their transition tapers shall be the same structure as the abutting travel way pavement thickness or any of the roadway structures tabulated above, whichever is thicker.
- 3. If an asphalt base course is used for a driveway, its thickness may be increased to match the edge of travel way pavement thickness in lieu of a separate structural course. 6" of Portland cement concrete will be acceptable in lieu of the asphalt base and structural courses. See Notes 4 and 5 below.
- 4. A structural course is required for flexible pavements when they are used for auxiliary lanes serving more than a single connection.
- 5. Use Class NS concrete at least 6" thick for driveways paved with Portland Cement Concrete. Construct in accordance with Specifications 347, 350, and 522.
- 6. The Department may require other pavement criteria where local conditions warrant.



#### SECTION AA - NEW CONSTRUCTION





#### GENERAL NOTES:

- 1. Driveways are to be constructed or resurfaced for low volume (single family, duplex, farm, etc.) residential connections as directed by the Engineer.
- 2. Driveways construction is not required for low volume residential connections where roadway shoulders are paved.
- 3. Match existing paved shoulder widths  $\geq 4'$ . For all other shoulders conditions, construct at 5' wide.
- 4. Connections beyond the shoulder width are to be constructed as directed by the Engineer.
- 5. Construct Driveway Base in accordance with Specification 286.
- 6. Payment for structural course and friction course is to be included in roadway pavement pay item.

**REVISION** 11/01/18

DESCRIPTION:

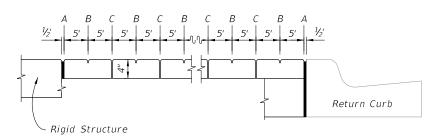
FY 2022-23 STANDARD PLANS

PAVED AND GRADED DRIVEWAYS

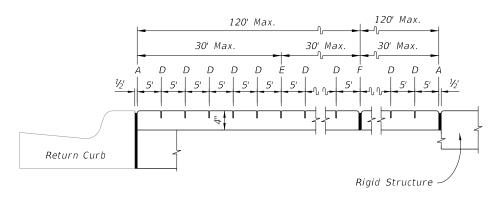
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SHEET

- 2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
- 3. For Driveways see Index 522-003.
- 4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than 1/2".
- 5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)



#### OPEN JOINTS



SAWED JOINTS

#### LONGITUDINAL SECTION

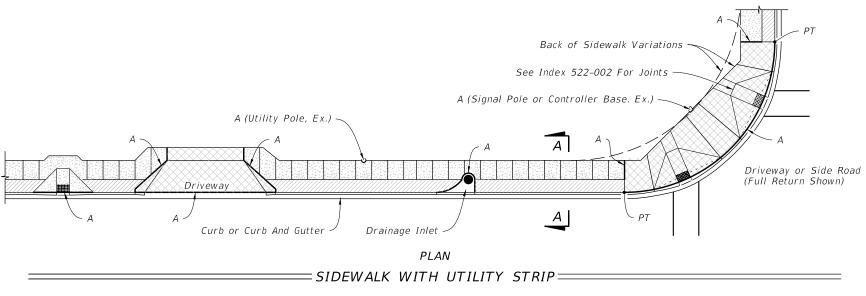
#### LEGEND:

- A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
- B- 1/8" Dummy Joints, Tooled
- C- 1/8" Formed Open Joints

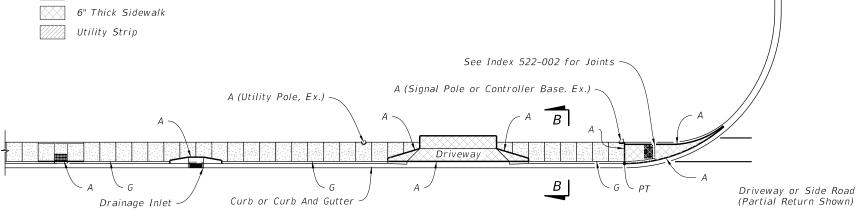
DESCRIPTION:

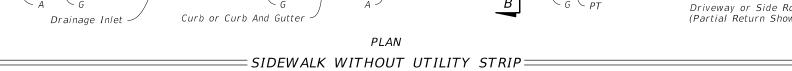
- D- 3/16" Saw Cut Joints, 11/2" Deep (within 96 hours) Max. 5' Centers
- $E-\frac{3}{16}$ " Saw Cut Joints,  $1\frac{1}{2}$ " Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'
- F- 1/2" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by
- G- Cold Joint With Bond Breaker, Tooled

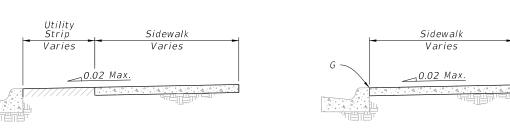


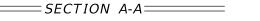


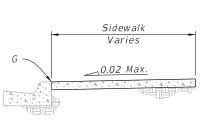




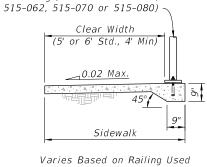








= SECTION B-B=====



Railing (See Index 515-052,

=== RAILING DETAIL ====

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

**REVISION** 11/01/18

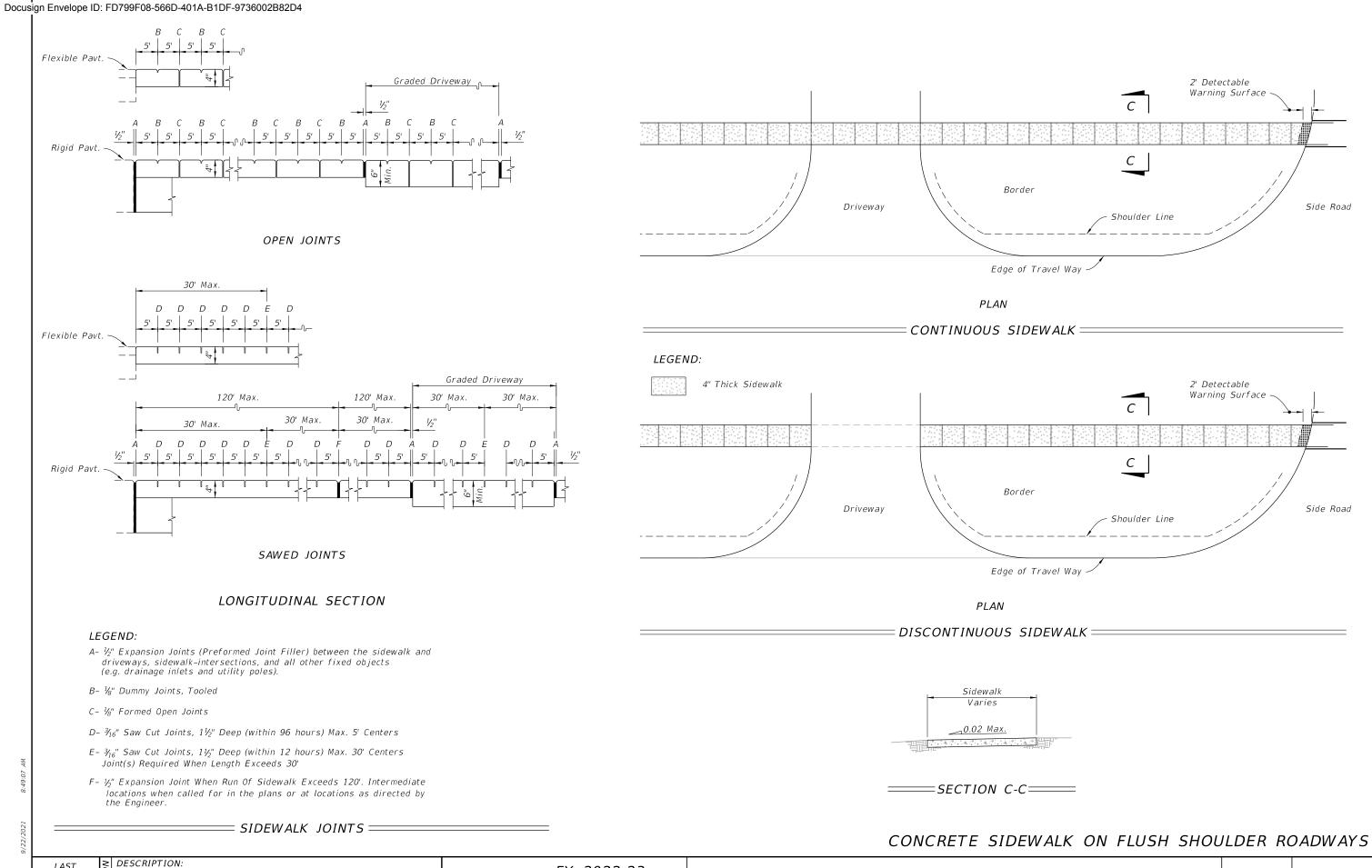
**FDOT** 

FY 2022-23 STANDARD PLANS

CONCRETE SIDEWALK

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SHEET 1 of 2



**REVISION** 11/01/18

FDOT

FY 2022-23 STANDARD PLANS

CONCRETE SIDEWALK

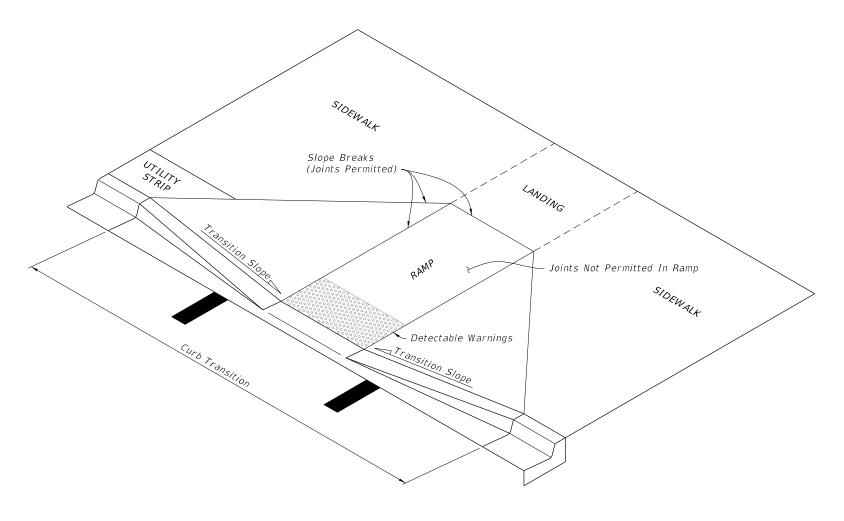
INDEX *522-001* 

SHEET 2 of 2

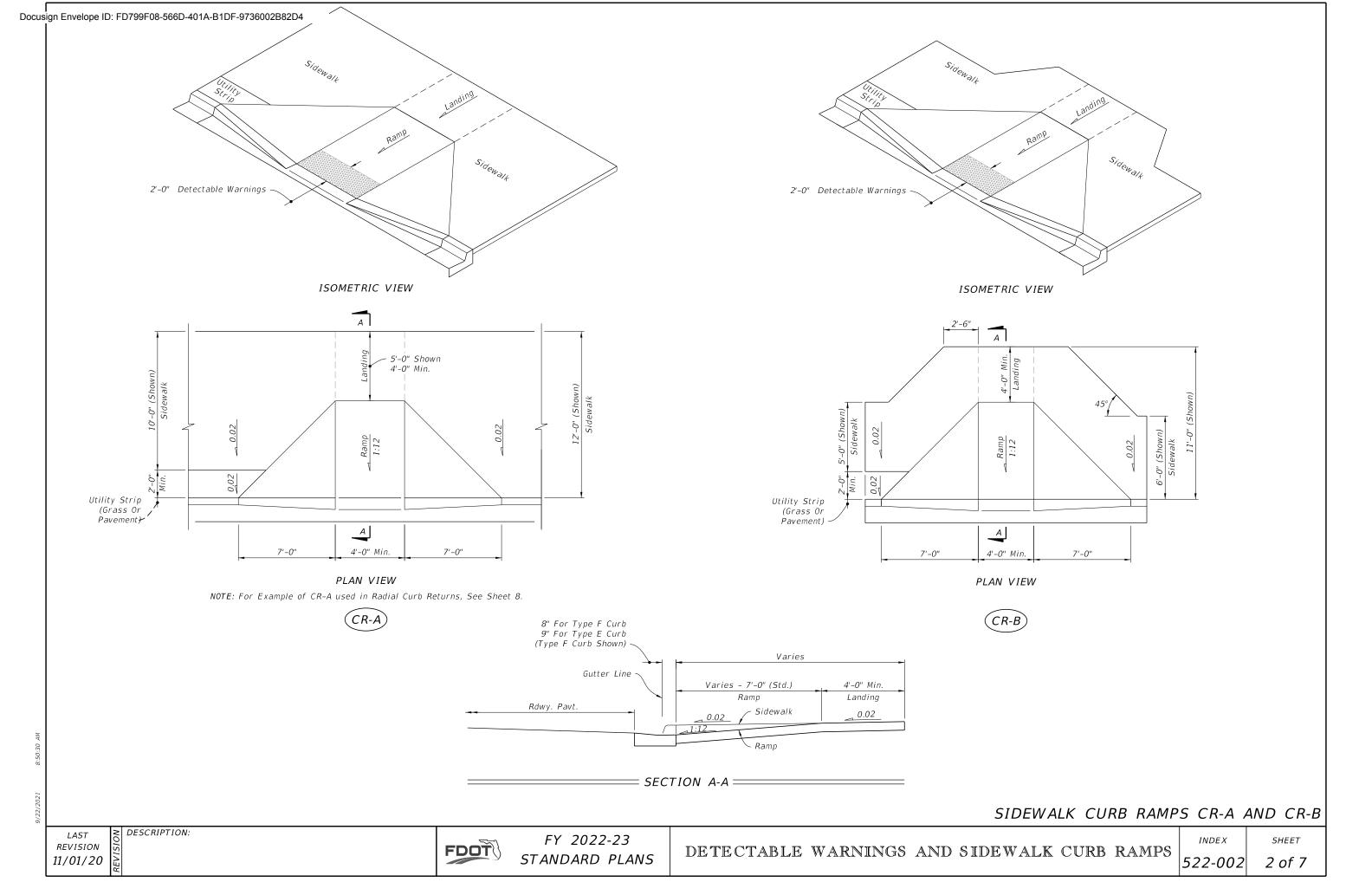
#### GENERAL NOTES:

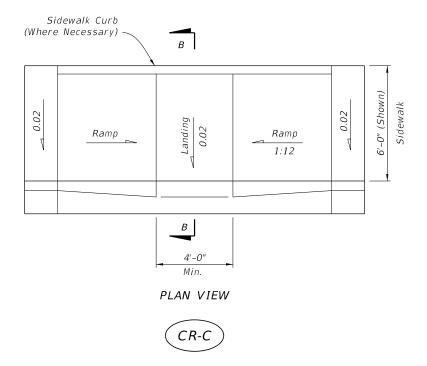
#### 1. Cross Slopes and Grades:

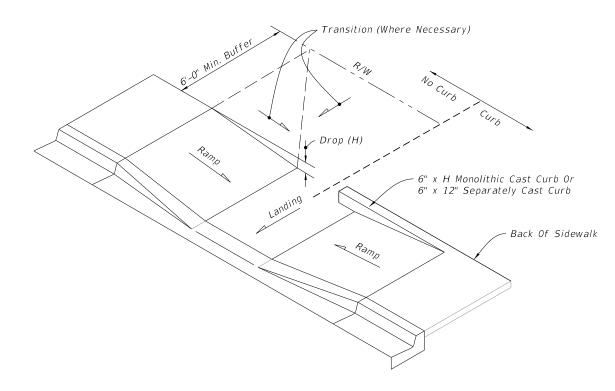
- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
- 2. Curb, Curb and Gutter and/or Sidewalk:
  - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
  - B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
  - C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
- 3. Curb Ramp Alpha-Identification:
  - A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
  - B. Alpha-identifications CR-I and CR-J are intentionally omitted.
- 4. Detectable Warnings:
  - A. Install detectable warnings in accordance with Specification 527.
  - B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



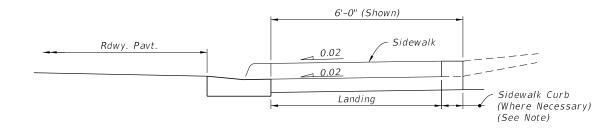
= CURB RAMP NOMENCLATURE =





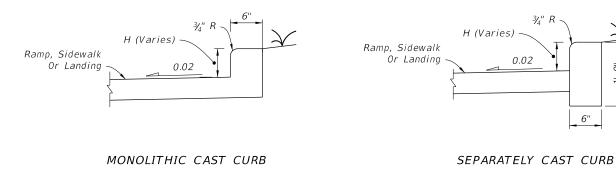


CONSTRUCTION OF SIDEWALK CURB IN CUT SECTIONS



NOTE: For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details.

=SECTION B-B=



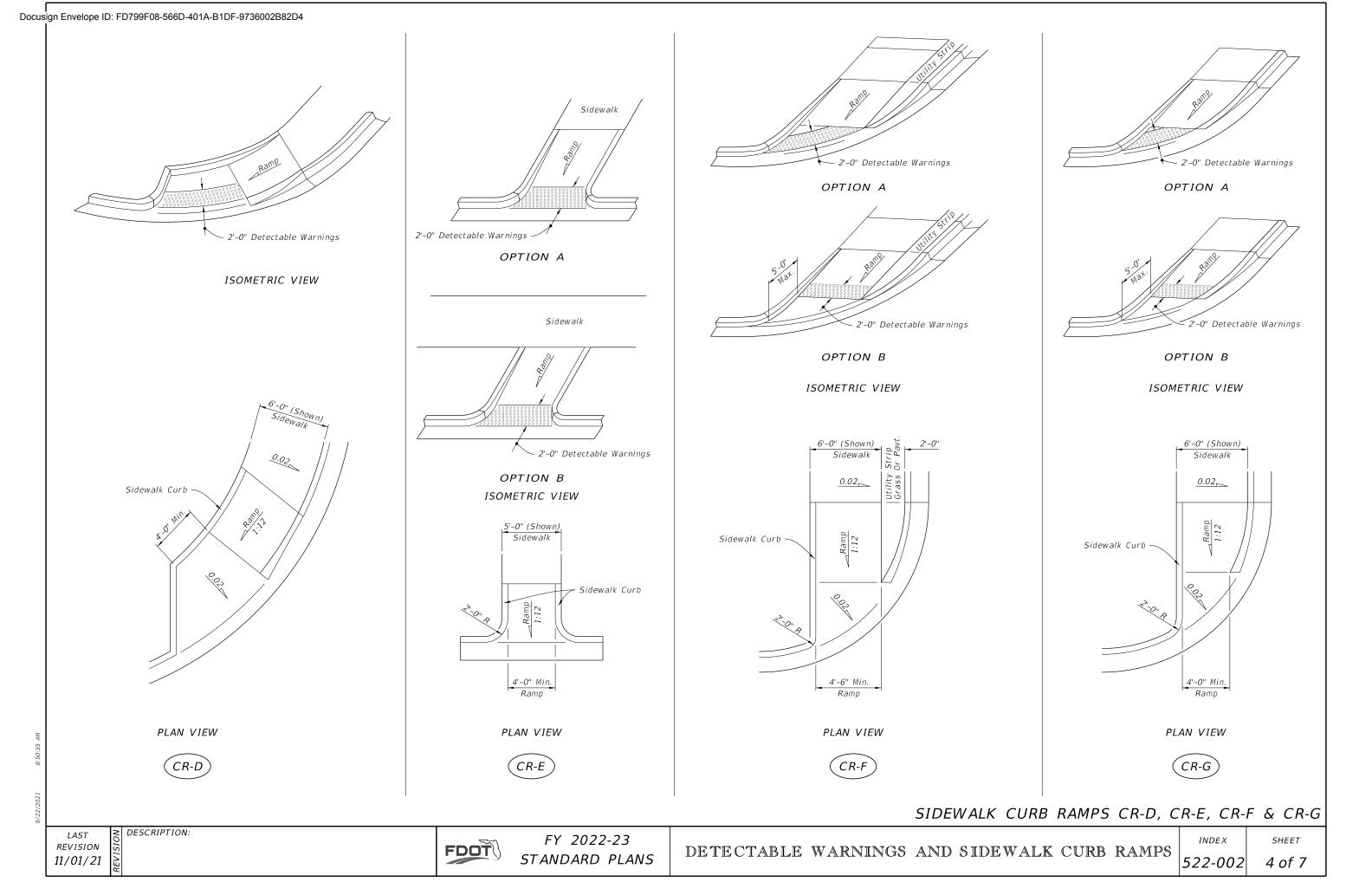
=SIDEWALK CURB OPTIONS=

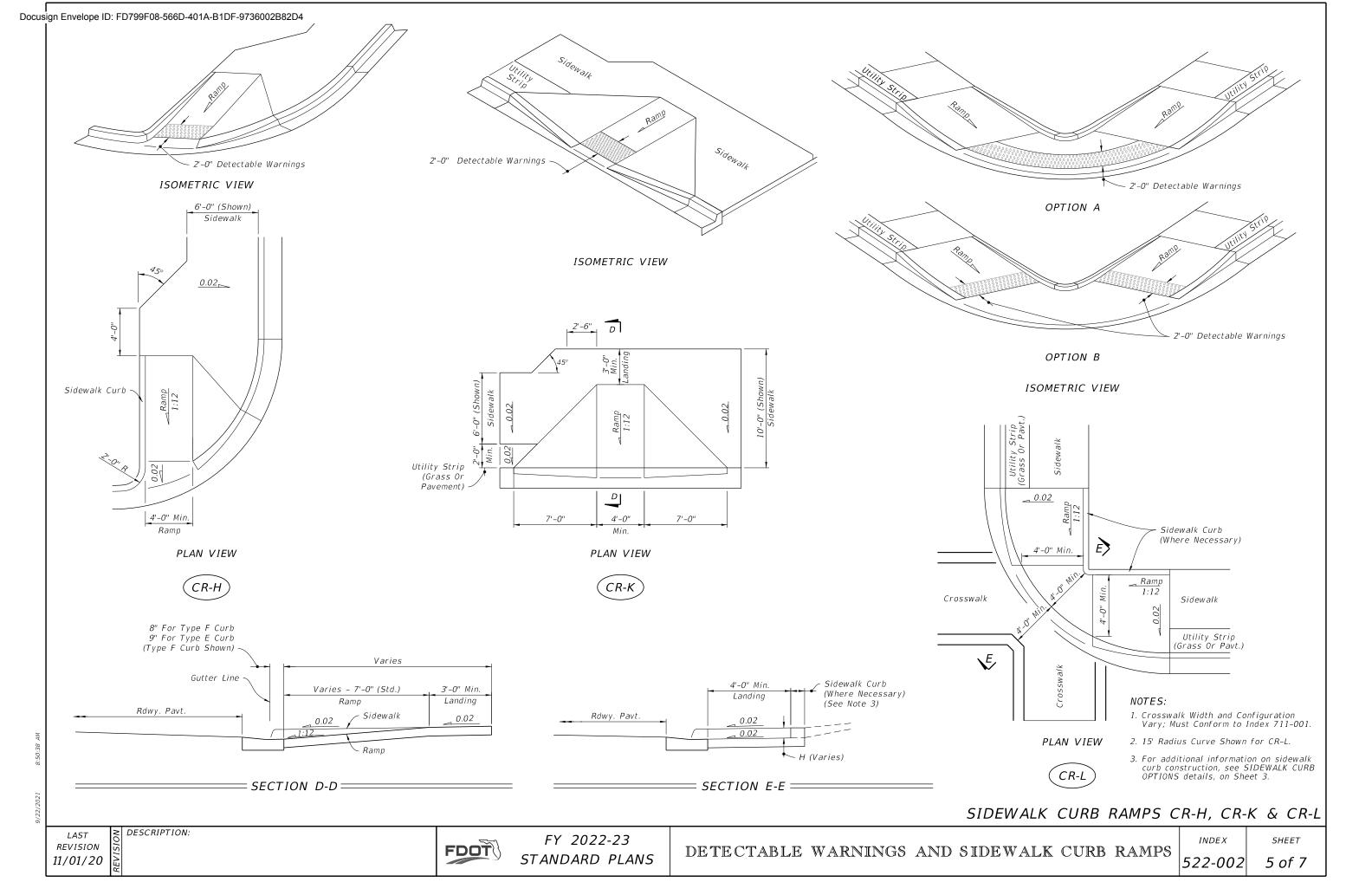
SIDEWALK CURB RAMPS CR-C AND SIDEWALK CURB

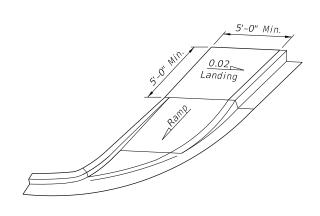
REVISION 11/01/20

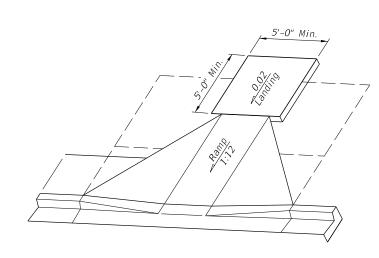
DESCRIPTION:

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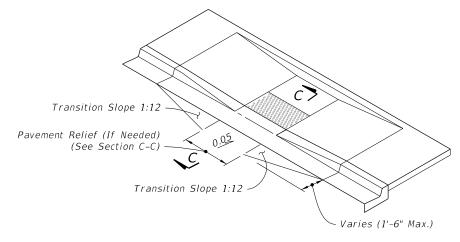




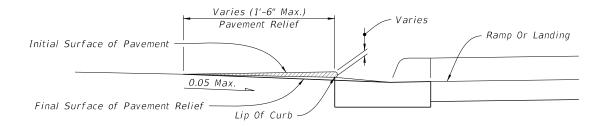


#### LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS:

(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)



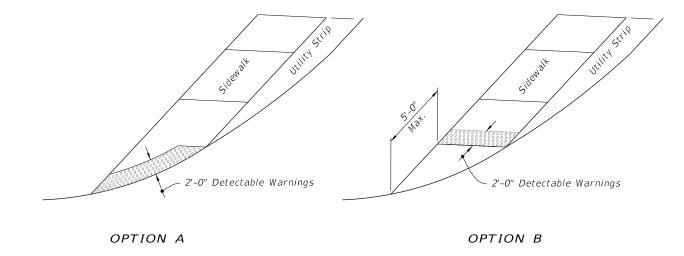
#### ISOMETRIC VIEW (CR-C Shown, Other Similar)



NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION C-C

PAVEMENT RELIEF DETAILS =



= DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS ==

CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

DESCRIPTION: LAST REVISION 11/01/20

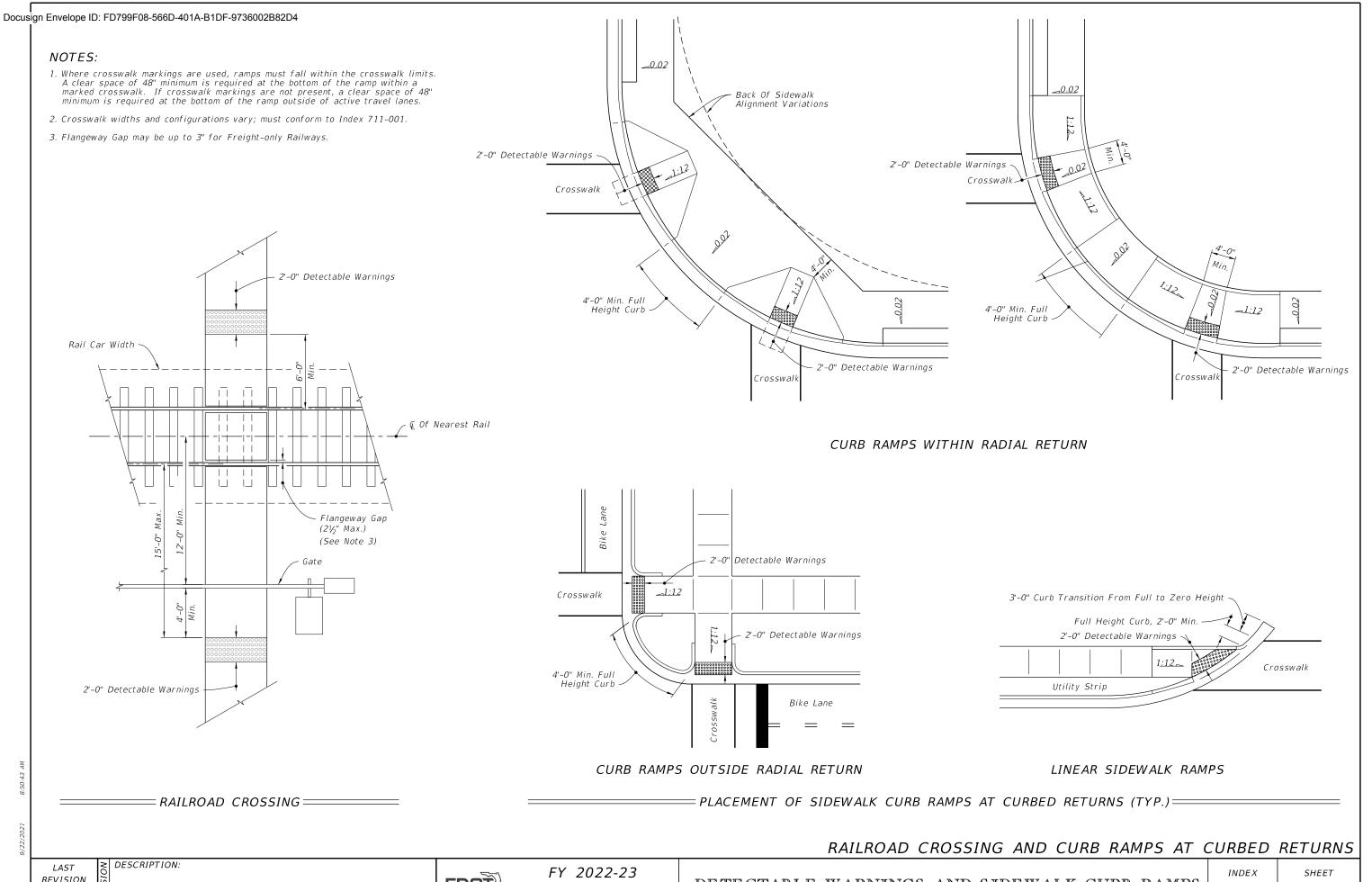


FY 2022-23 STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

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SHEET 6 of 7



**REVISION** 11/01/20

FDOT

STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

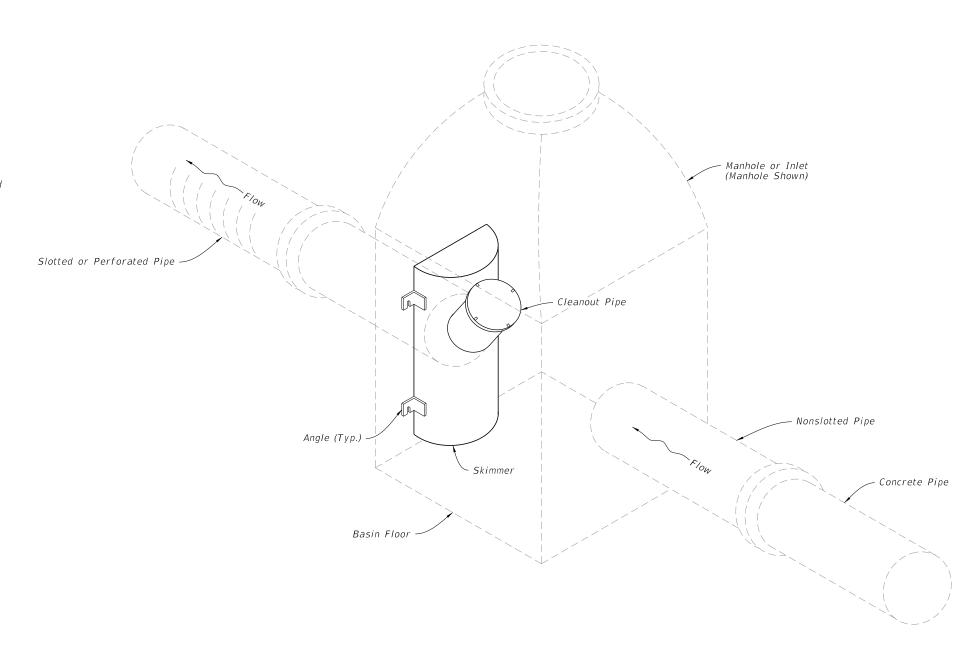
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#### **GENERAL NOTES:**

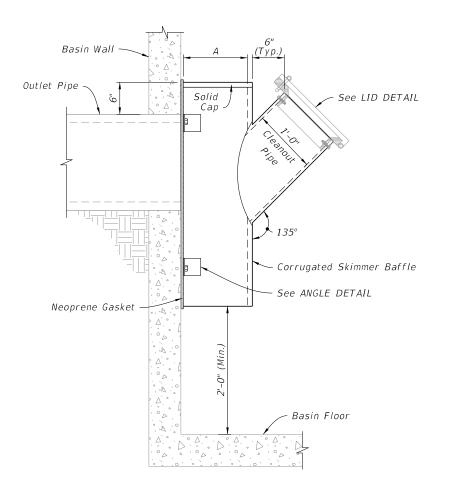
- 1. The French Drain Skimmer is a hooded cover, mounted over an outlet in a catchbasin, that prevents oil and floating debris from exiting the
- 2. Place neoprene gasket material between the skimmer and the catchbasin at all points of contact. Trim the gasket to extend 1/2 inch beyond the joint on all sides.
- 3. Provide skimmer baffle, cleanout pipe and angles constructed of either galvanized steel, aluminum, polyvinyl chloride, polyethylene, fiberglass or acrylonitrite butadiene styrene. Provide hot-dip galvanized steel components, unless stainless.
- 4. Use Mounting hardware, hinges and latches made of stainless steel. Loss prevention device can use either stainless steel chain or riveted nylon strap.
- 5. Provide skimmer bodies (baffles) and cleanout pipe meeting Specification 943 for steel, 945 for aluminum or 948 for plastics.
- 6. Work this Index in accordance with Specification 425.

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| 2                            | Type I Skimmers |  |  |  |  |  |
| 3 Type II Skimmers           |                 |  |  |  |  |  |



=SKIMMER FOR FRENCH DRAIN OUTLETS ASSEMBLY ===

PLAN

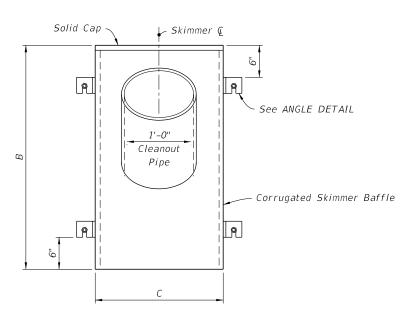


SIDE ELEVATION

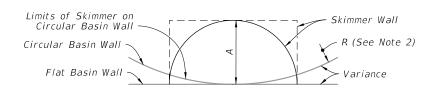
#### NOTES:

- 1. Conform the backs of skimmers to the shape of the basin walls on which they are mounted.
- 2. "R" is the radii required for curved back skimmers. Applies to both skimmer types. See Plans.
- 3. Weld Angles at all points of contact with skimmer.

| DIMENSION TABLE |     |     |     |  |  |  |  |  |
|-----------------|-----|-----|-----|--|--|--|--|--|
| OUTLET<br>PIPE  | Α   | В   | С   |  |  |  |  |  |
| 18"             | 12" | 42" | 24" |  |  |  |  |  |
| 24"             | 15" | 48" | 30" |  |  |  |  |  |
| 30"             | 18" | 54" | 36" |  |  |  |  |  |
| 36"             | 21" | 60" | 42" |  |  |  |  |  |

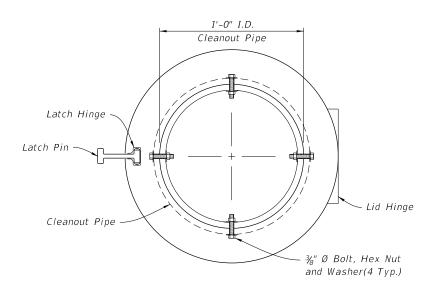


#### FRONT ELEVATION

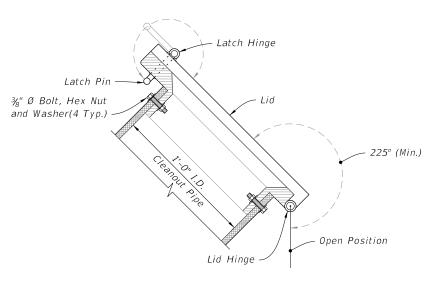


SCHEMATIC VIEW

= TYPE I DETAILS =

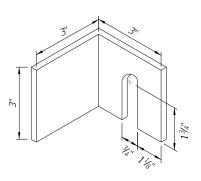


PLAN



SIDE ELEVATION

=LID DETAIL===



= ANGLE DETAIL ==

TYPE I SKIMMERS

REVISION 11/01/19

DESCRIPTION:

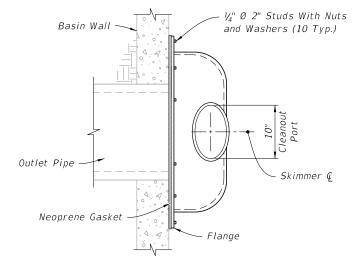
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FY 2022-23 STANDARD PLANS

SKIMMERS FOR FRENCH DRAIN OUTLETS

INDEX SHEET

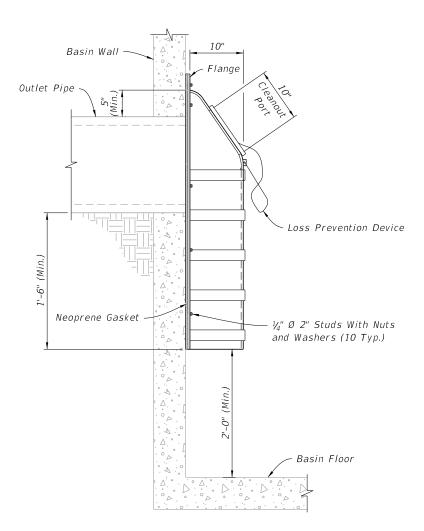
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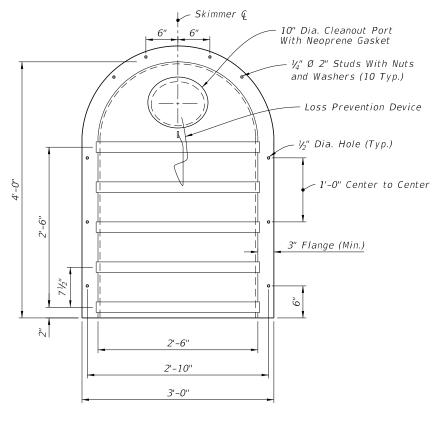


PLAN

### NOTE:

1. Install a gasket for the cleanout with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.





FRONT ELEVATION

SIDE ELEVATION

=TYPE II DETAILS=

REVISION 11/01/19

DESCRIPTION:

FDOT

FY 2022-23 STANDARD PLANS TYPE II SKIMMERS SHEET

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