
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 28, 2020
Originator: Tim Holley
Phone: (850) 414-4117
Email: Tim.Holley@dot.state.fl.us

Standard Plans:

Index Number: 425-030
Sheet Number (s): ALL
Index Title: Median Barrier Inlets Types 1 and 2

Summary of the changes:

Reorganized Index, Added additional Sheet.
Sheet 1: General Notes
Sheet 2: Type I and II Dimensional and Reinforcement Details
Sheet 3: Type I Collar Dimensional and Reinforcement Details
Sheet 4: Type II Collar Dimensional and Reinforcement Details

Commentary / Background:

Reorganized Details and Sheets to declutter Index. Moved information from detail callouts to Notes in order to decrease clutter of the drawing. Moved design information to SPI.

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input type="checkbox"/>	Construction –
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

Implementation:

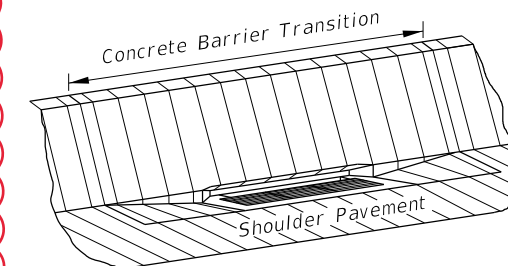
<input type="checkbox"/>	Design Bulletin (Interim)
<input type="checkbox"/>	DCE Memo
<input type="checkbox"/>	Program Mgmt. Bulletin
<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

SHEET 2

TABLE 1: HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. BARS	SPACING WWF
0'-3'	A12	0.20	12"	8"
3'-6'	A6	0.20	6"	5"
6'-9'	B5.5	0.24	5½"	5"
9'-15'	C6.5	0.37	6½"	6"



ISOMETRIC VIEW

GENERAL NOTES: Notes Updated

1. Where called for in the Plans, use this inlet in conjunction with Median Barrier per Index 521-001.

Inlet Descriptions:
 Type 1: Inlet on one side of Median Barrier
 Type 2: Inlet on both sides of Median Barrier

2. For grate details, see Index 425-020. The parallel bar grate shall be used unless the reticuline grate is called for in the plans. The reticuline grate shall be specified where bicycle traffic is anticipated. Used in areas of occasional pedestrian traffic. Not suitable for use in pedestrian traffic or bicycle way.

3. All exposed edges and corners shall be ¾" chamfer or tooled to ¼" radius.

4. For standard Median Barrier dimensions and requirements, see Index 521-001.

5. Inlet wall reinforcing is Grade 60 #4 bars. The horizontal wall reinforcing must be positioned 3" from the inside face unless otherwise shown. Per Index 425-001, the equivalent area of welded wire fabric is permitted.

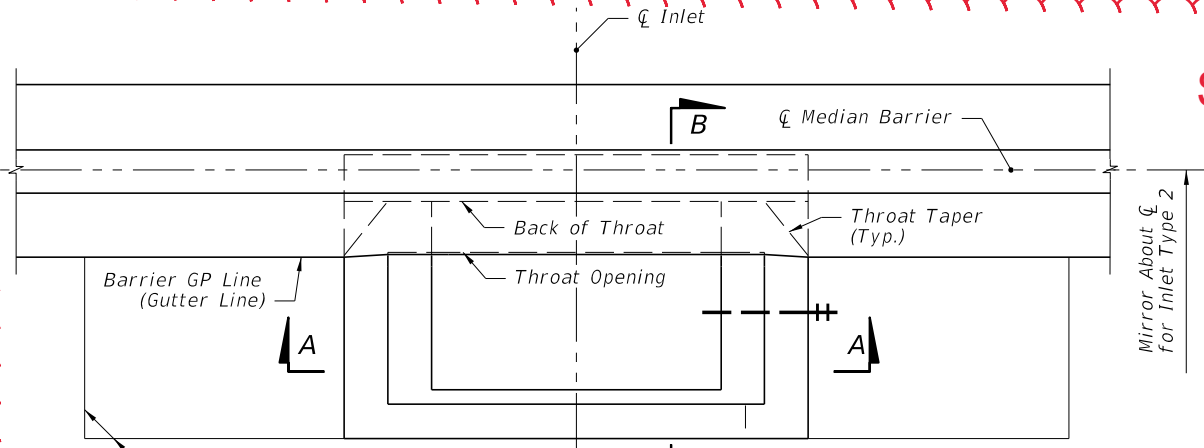
6. Barrier reinforcing is Grade 60 #4 bars or #5 bars, as required to match the stirrups and longitudinal steel of the adjacent Concrete Barrier per Index 521-001. Barrier reinforcing steel cover may be either 2" or 2½" as needed to match the adjacent barrier reinforcing cover, unless otherwise shown. Match the stirrup spacing of the adjacent barrier. Run Longitudinal steel bars over the full length of the Concrete Barrier Transition and run continuously with the longitudinal steel of the adjacent barriers; use lap splices as required.

7. For supplemental details see Index 425-001.

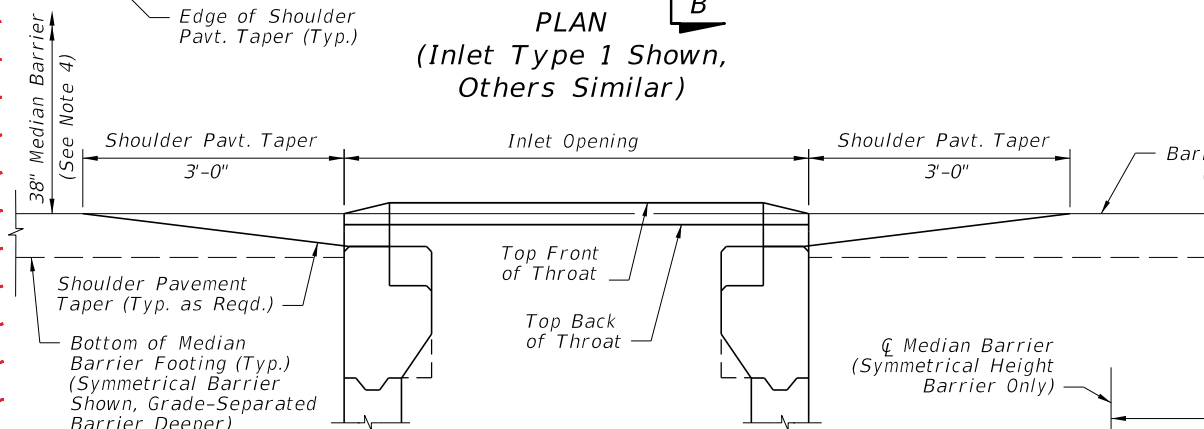
8. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.

9. Inlets to be paid for under the contract unit price for Inlets (Median Barrier Type_), EA. Concrete Barrier to be paid for under the contract unit price for Concrete Barrier, LF.

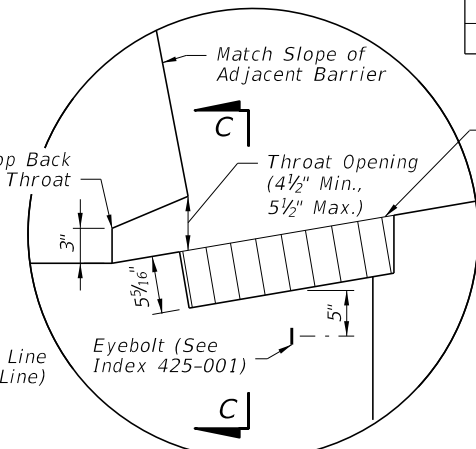
10. Bond Breaker: One layer of ASTM D6380 Class S, Type III organic felt between inlet and barrier, including footings.



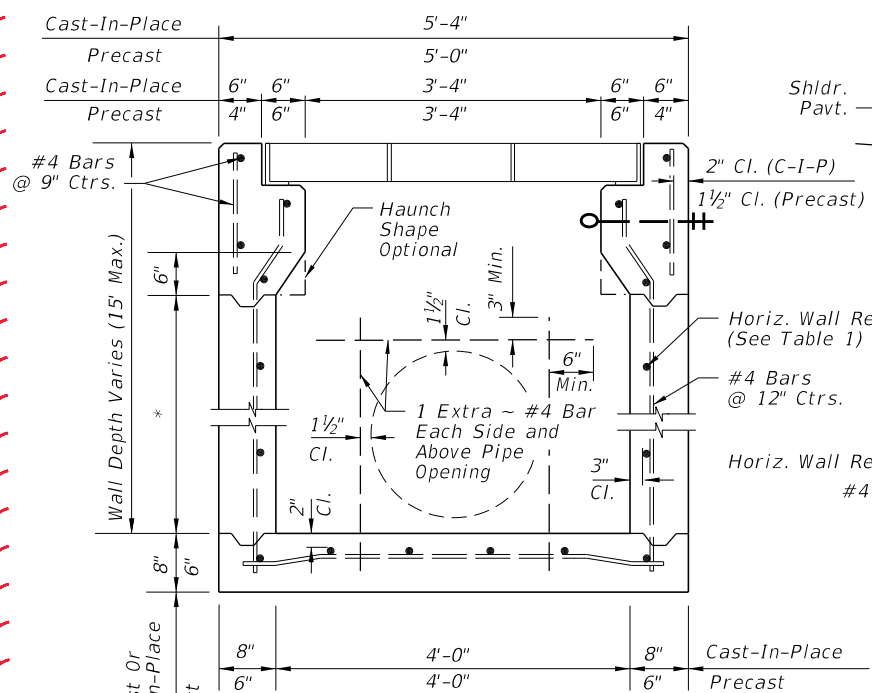
PLAN (Inlet Type 1 Shown, Others Similar)



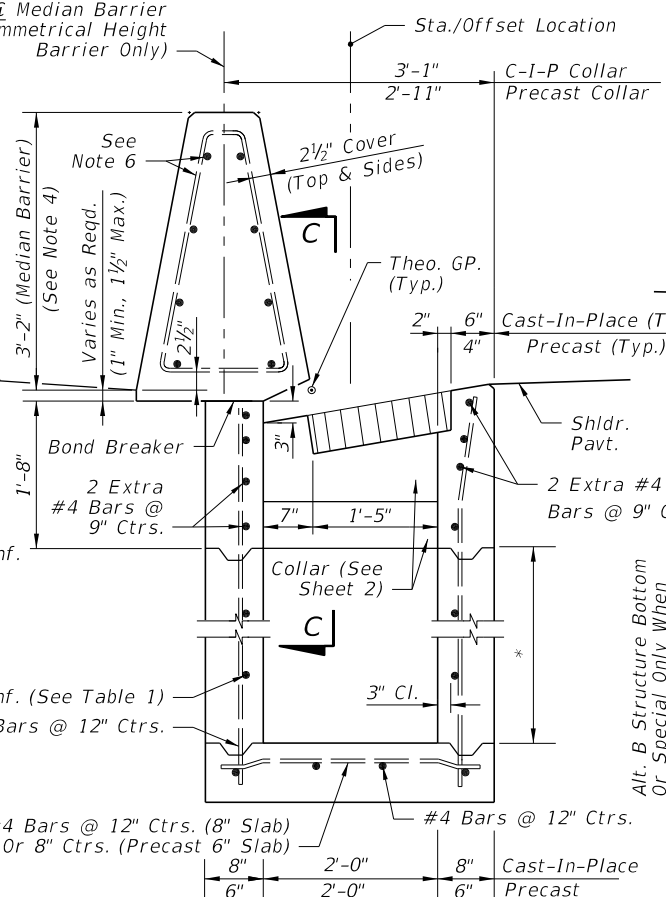
ELEVATION - VIEW C-C (Grate Not Shown for Clarity)



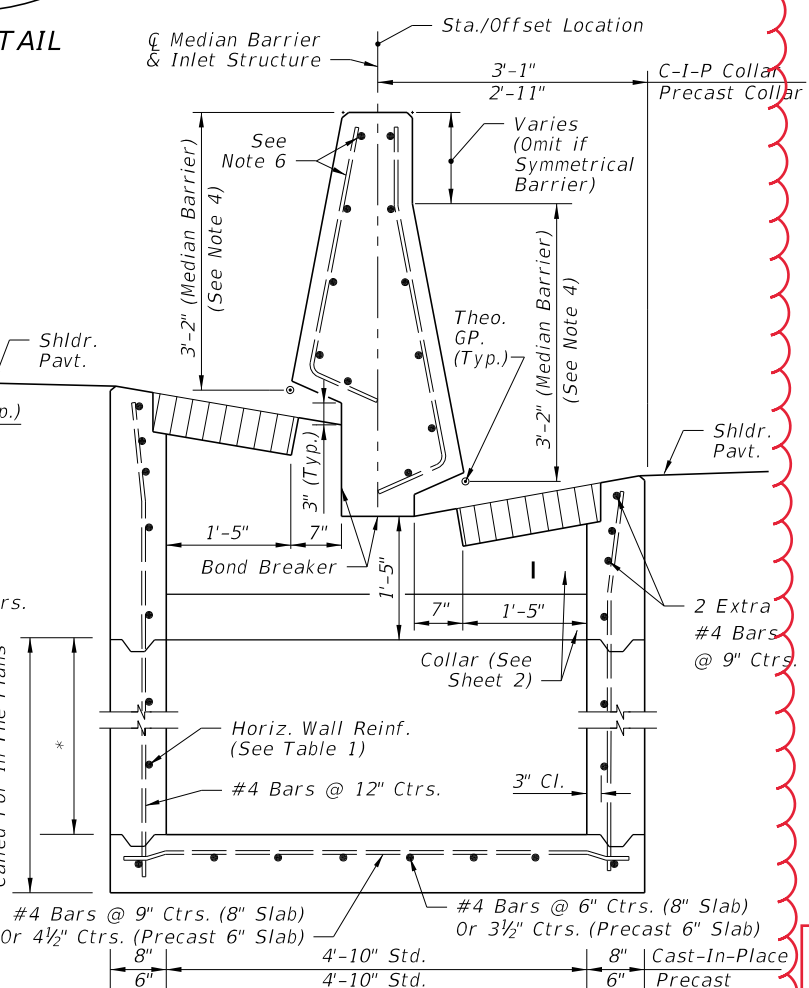
INLET DETAIL



SECTION A-A (Pipe Opening Shown)



SECTION FOR INLET TYPE 1 (SYMMETRICAL HEIGHT BARRIER ONLY)



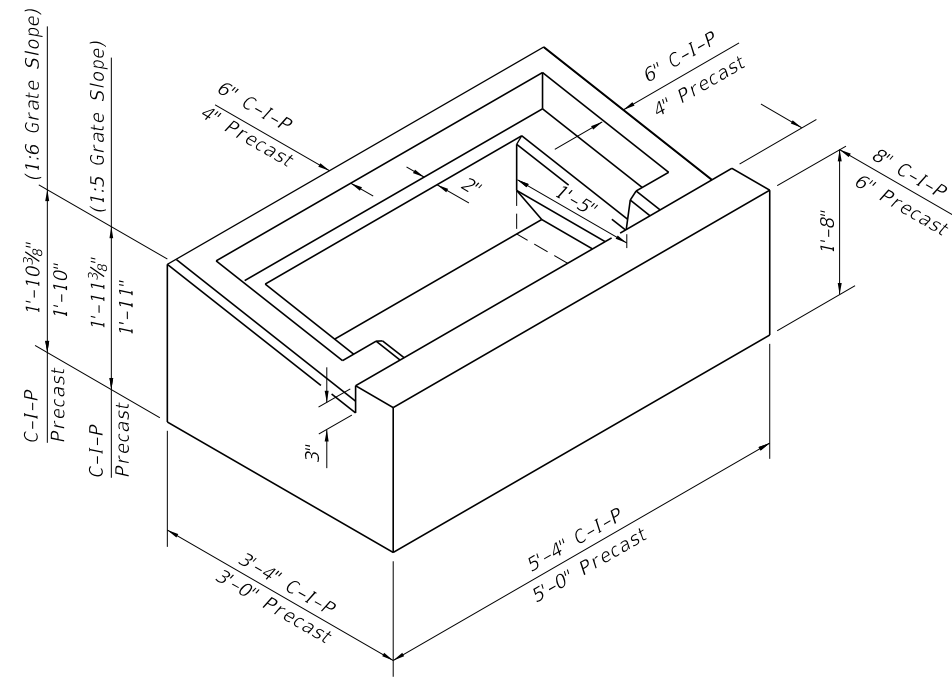
SECTION FOR INLET TYPE 2 (GRADE-SEPARATED BARRIER SHOWN, SYMMETRICAL HEIGHT BARRIER SIMILAR)

* Const. Joint Permitted Between These Limits See Index 425-001 For Min. Dimensions

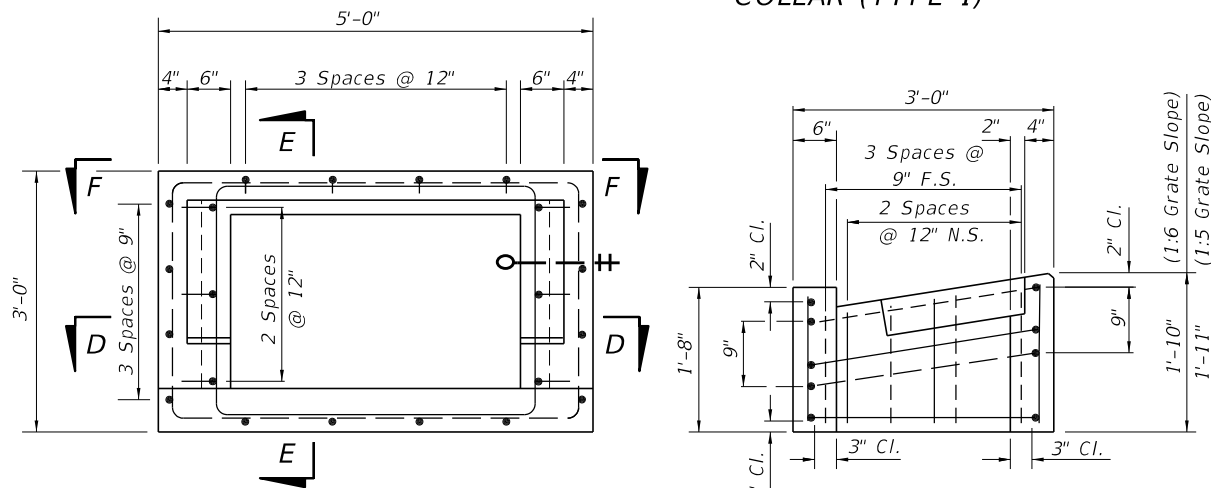
SECTION B-B (Pipe Opening Not Shown)

10/24/2018 8:51:08 AM

SHEET 3

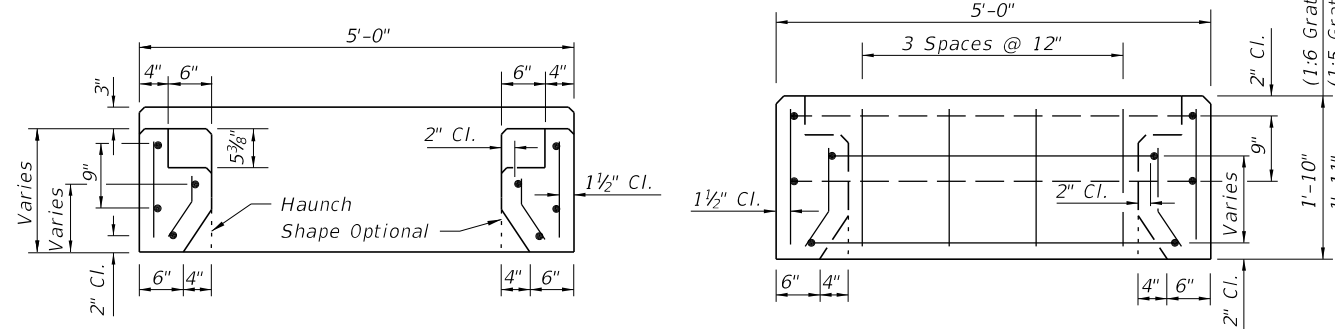


ISOMETRIC VIEW OF INLET COLLAR (TYPE 1)



TOP VIEW OF INLET COLLAR WITHOUT GRATE

SECTION EE

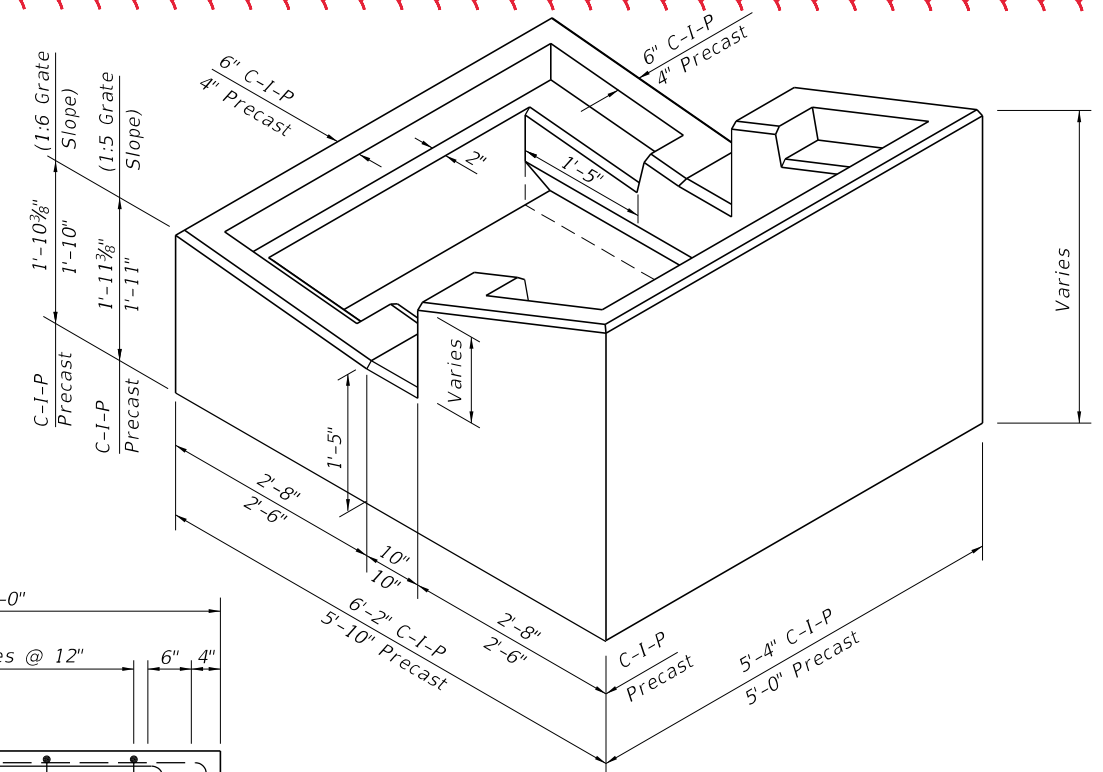


SECTION DD

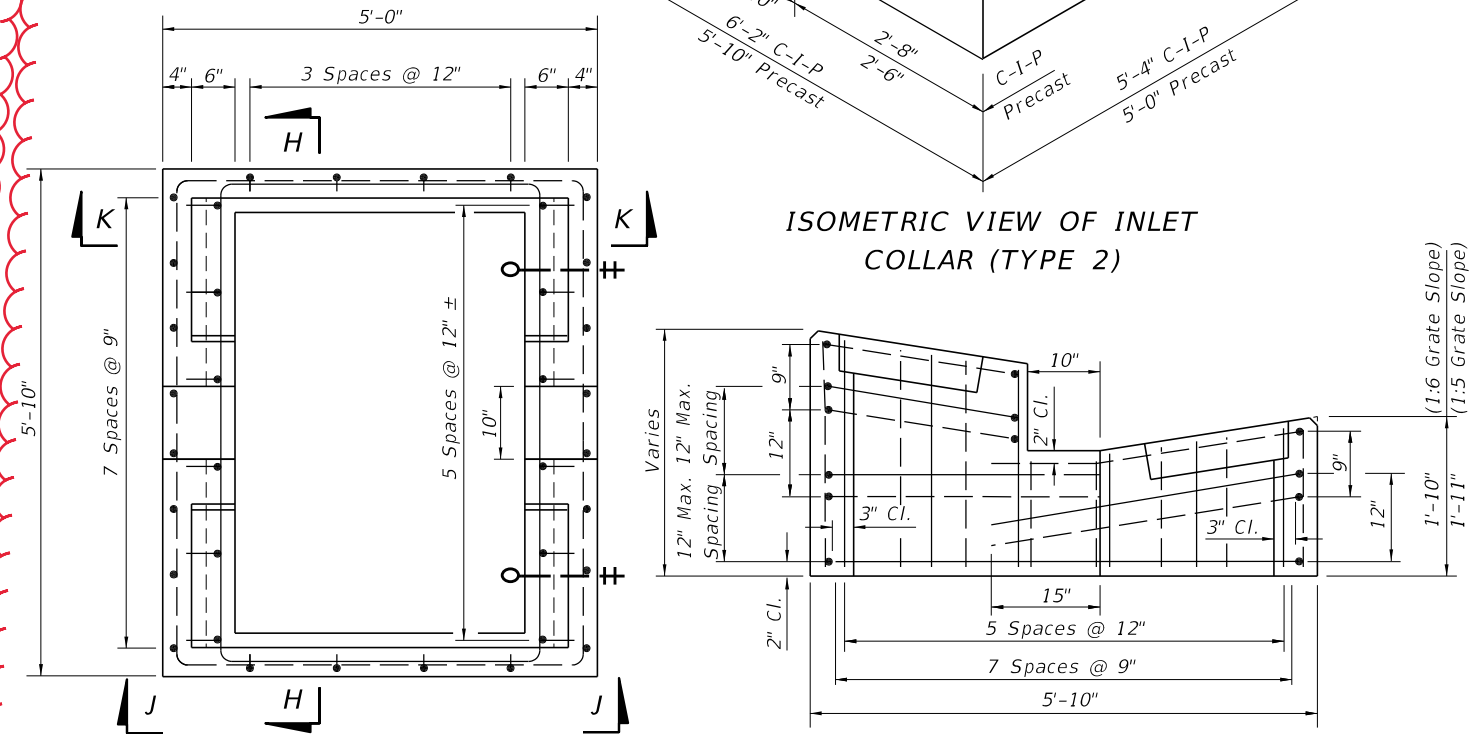
VIEW FF

PRECAST COLLAR REINFORCING DETAILS (TYPE 1)
(C-I-P COLLAR REINFORCING DETAILS SIMILAR)

SHEET 4

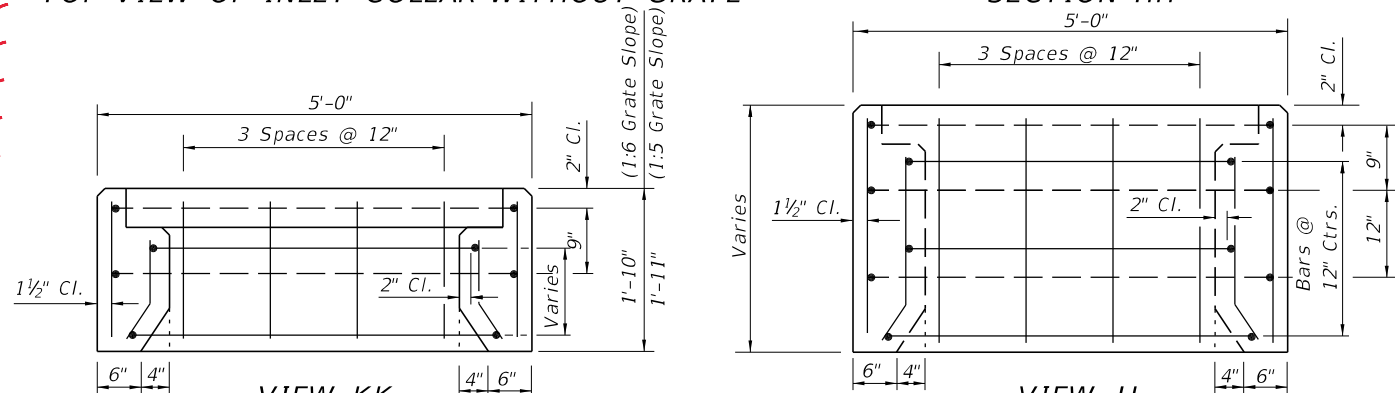


ISOMETRIC VIEW OF INLET COLLAR (TYPE 2)



TOP VIEW OF INLET COLLAR WITHOUT GRATE

SECTION HH



VIEW KK

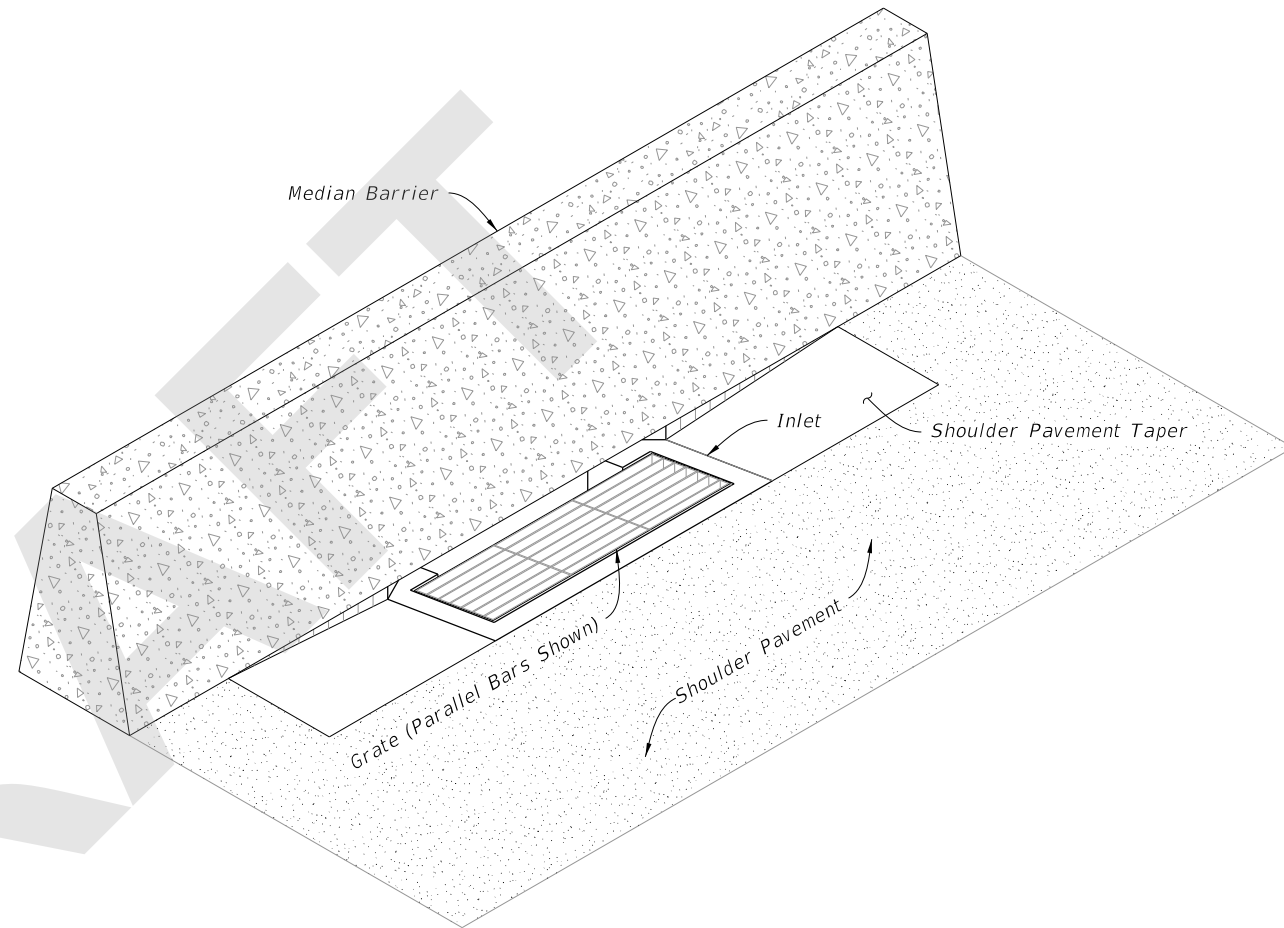
VIEW JJ

PRECAST COLLAR REINFORCING DETAILS (TYPE 2)
(C-I-P COLLAR REINFORCING DETAILS SIMILAR)

LAST REVISION	DESCRIPTION
11/01/17	

GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Where called for in the Plans, use this inlet in conjunction with Median Barrier per Index 521-001.
3. Inlet Descriptions:
 Type 1: Inlet on one side of Median Barrier
 Type 2: Inlet on both sides of Median Barrier
4. See Index 425-040 for grate details. Use the parallel bar grate unless reticuline grate is called for in the Plans.
5. Chamfer all edges to $\frac{3}{4}$ " or tool to $\frac{1}{4}$ " radius.
6. Use Grade 60 #4 bars for inlet wall reinforcing. Position horizontal wall reinforcing 3" from the inside face unless otherwise shown. Equivalent areas of welded wire per Index 425-001 are permitted.
7. Use Grade 60 #4 or #5 bars for barrier reinforcing as required to match the stirrups and longitudinal steel of the adjacent Median Barrier per Index 521-001. Provide 2" or 2 $\frac{1}{2}$ " reinforcing steel cover to match the adjacent barrier reinforcing cover unless otherwise shown. Match the stirrup spacing of the adjacent barrier. Run longitudinal steel bars over the full length of the Concrete Barrier Transition and run continuously with the longitudinal steel of the adjacent barriers. Use lap splices as required.
8. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.
9. Install one layer of ASTM D6380 Class S, Type III organic felt bond breaker between inlet and barrier, including footings.



=====
MEDIAN BARRIER INLET
 (Type 1 Shown, Type 2 Similar)
 =====

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type 1 and 2 Dimensional and Reinforcement Details
3	Type 1 Collar Dimensional and Reinforcement Details
4	Type 2 Collar Dimensional and Reinforcement Details

8/9/2020 10:09:01 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:
---------------------------	----------	--------------



FY 2021-22
 STANDARD PLANS

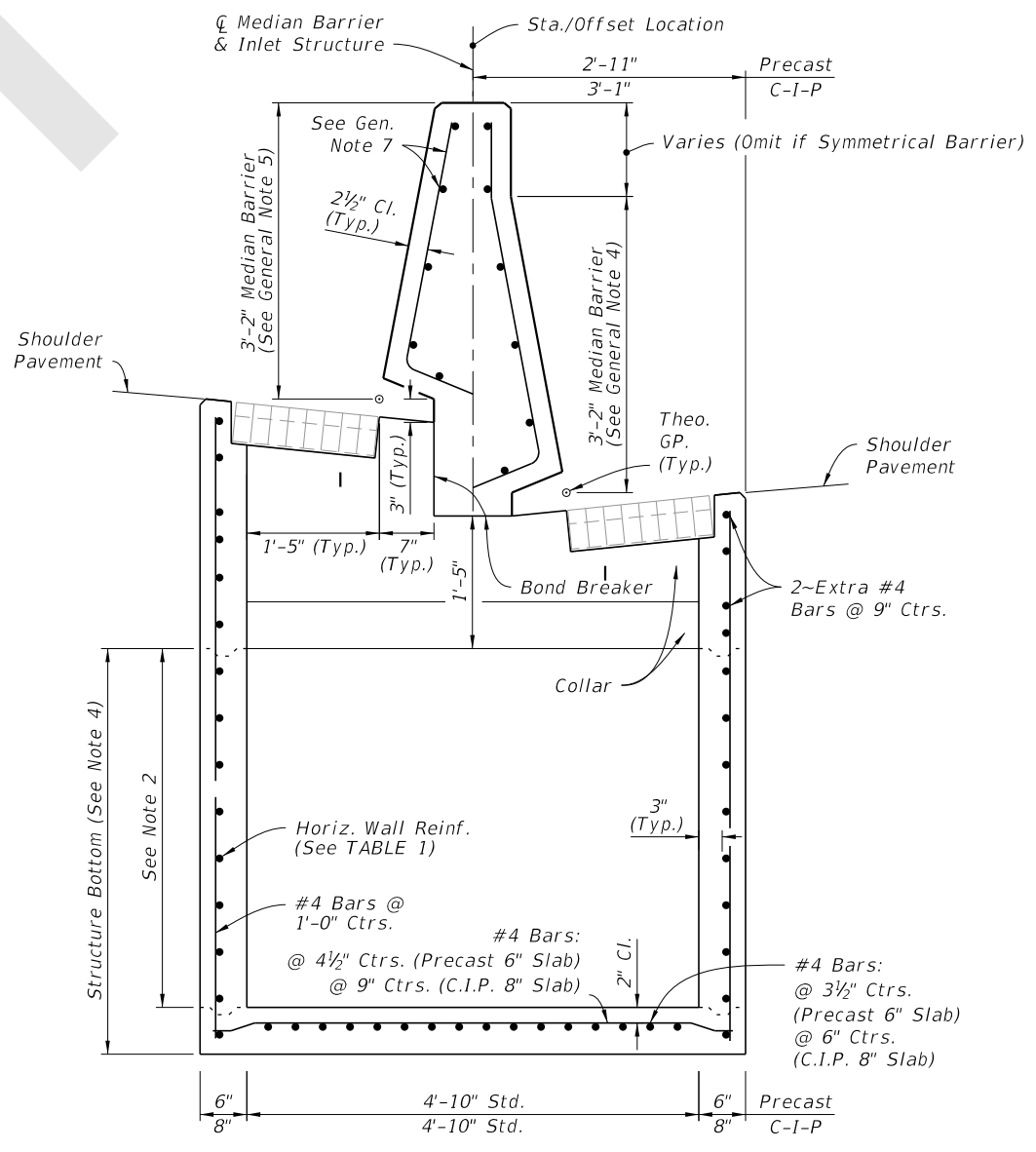
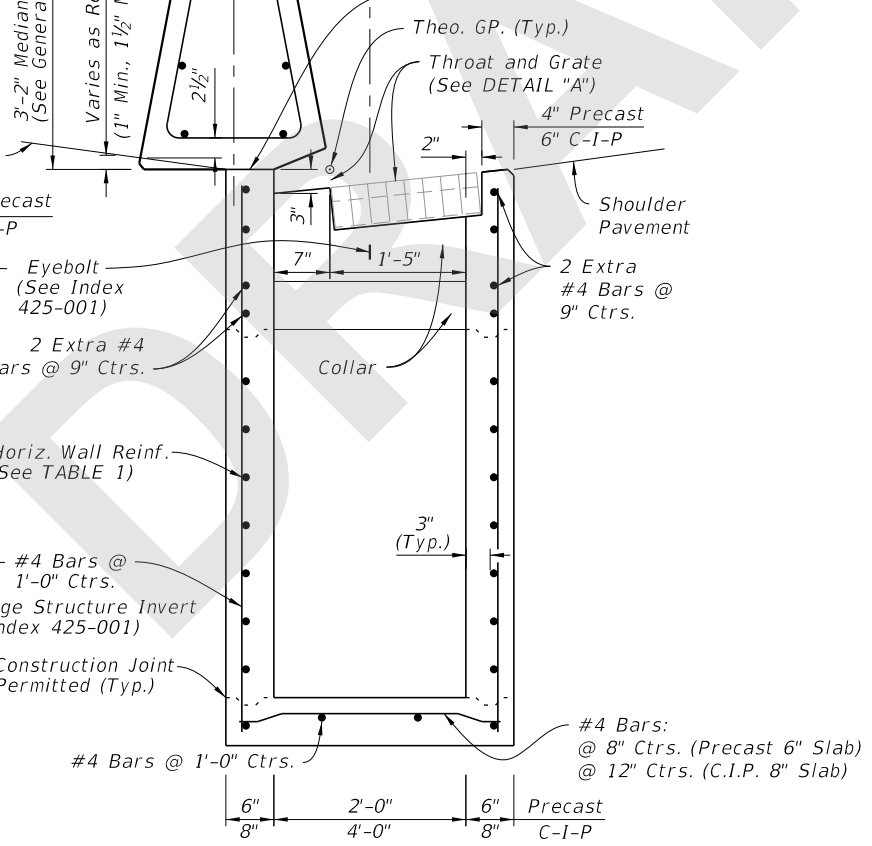
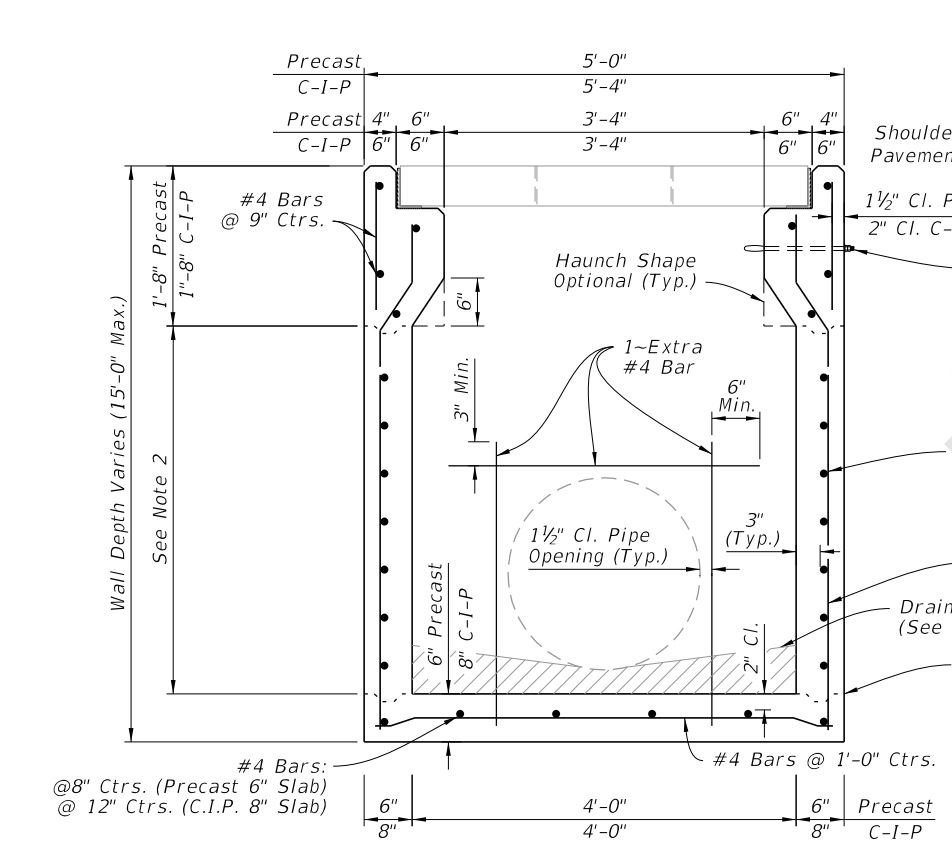
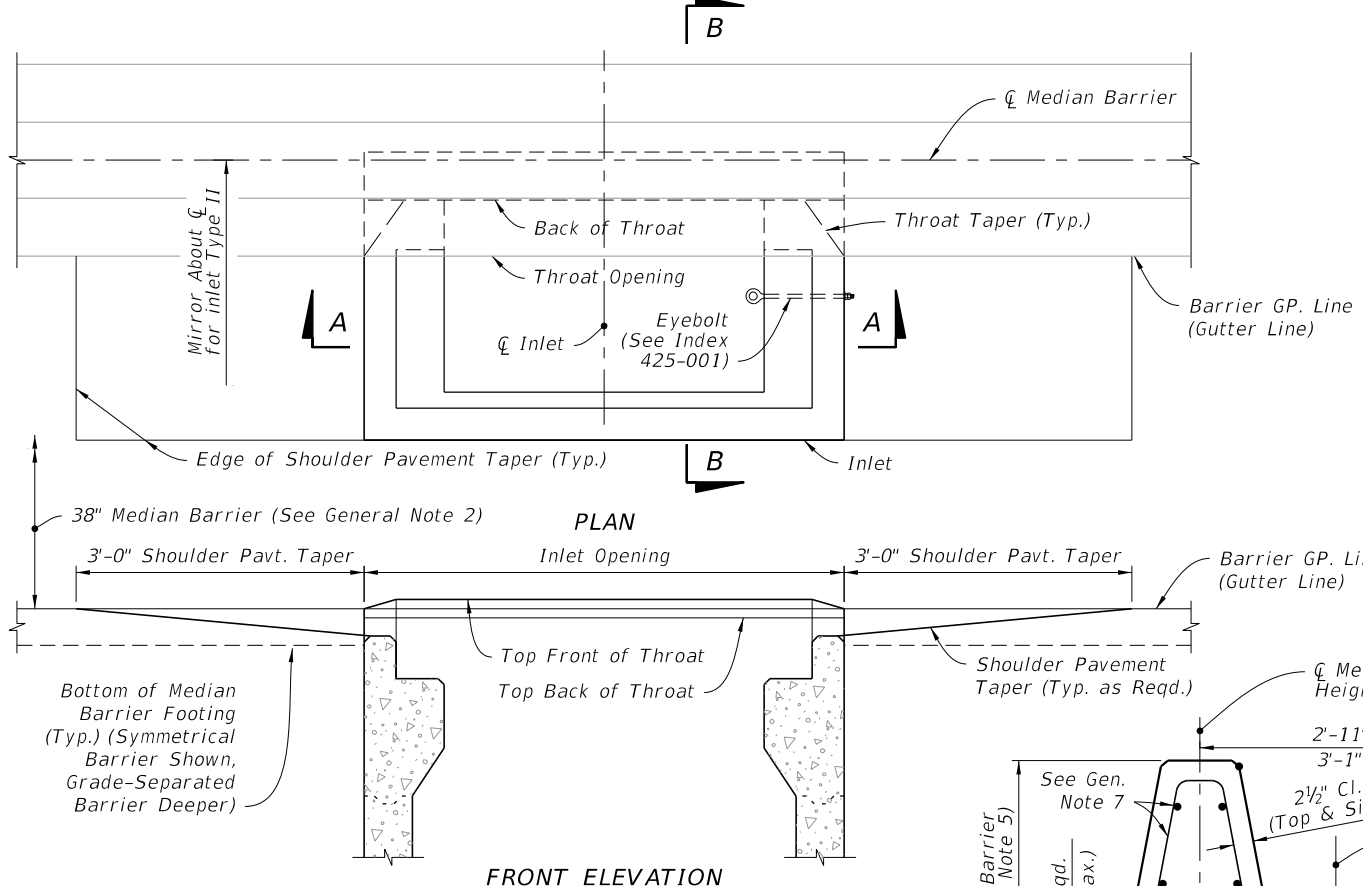
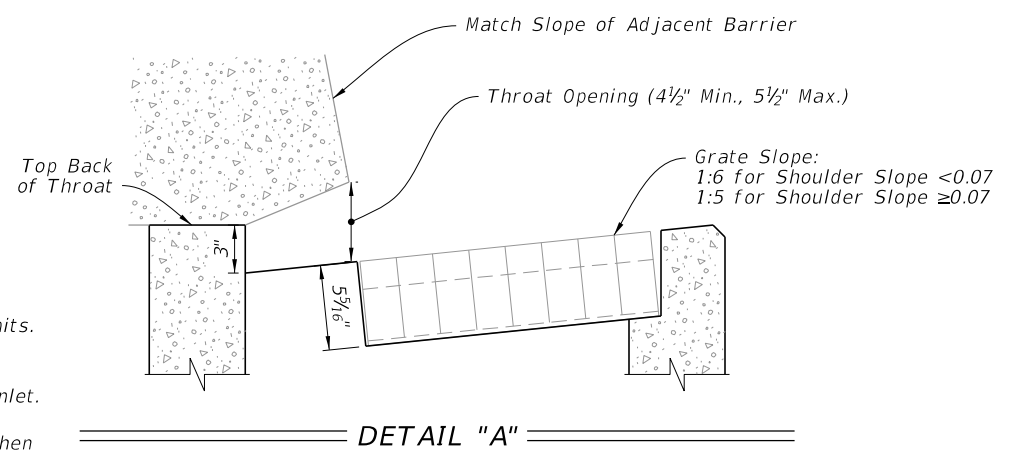
MEDIAN BARRIER INLET TYPES 1 AND 2

INDEX
 425-030

SHEET
 1 of 4

TABLE 1: HORIZONTAL WALL REINFORCING SCHEDULE				
WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BAR	WWF
0'-3'	A12	0.20	12"	8"
3'-6'	A6	0.20	6"	5"
6'-9'	B5.5	0.24	5½"	5"
9'-15'	C6.5	0.37	6½"	6"

- NOTES:**
1. Precast shown, cast-in-place (C-I-P) similar.
 2. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.
 3. Plan view and Section AA is similar to Type I Inlet.
 4. Alternate B Structure Bottom or Special Only when called for in the Plans.



SECTION A-A
(Both Type I and Type II, Pipe Opening Shown)
TYPE 1 INLET

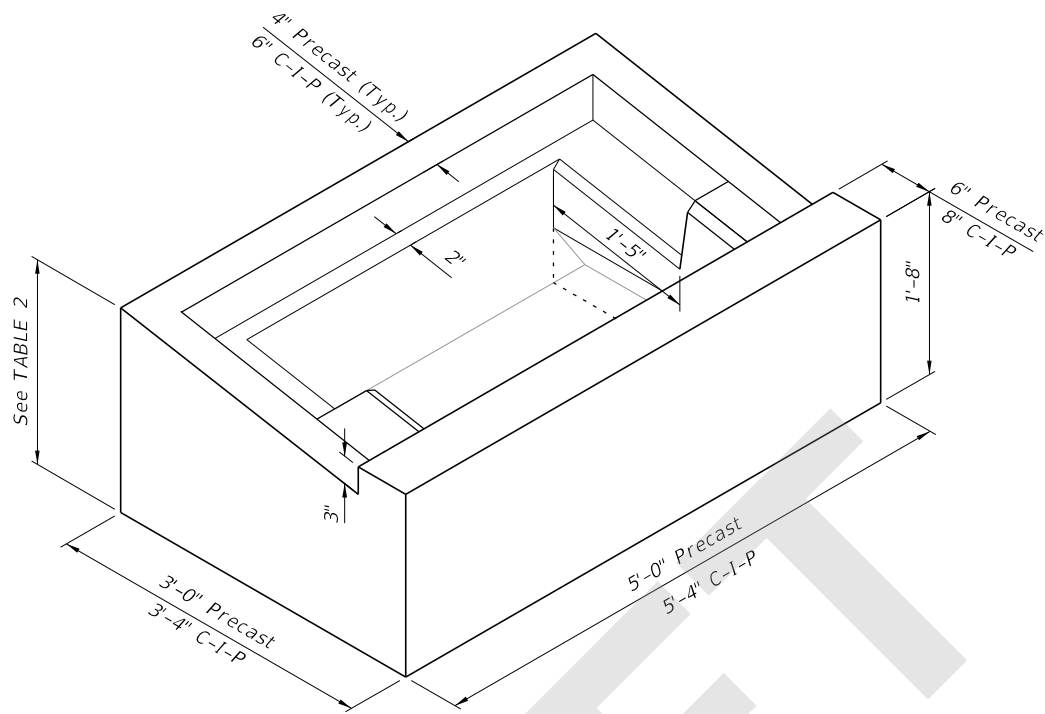
SECTION B-B
(Type I, Pipe Opening Not Shown)
TYPE 1 INLET

SECTION B-B
(See Note 3)
TYPE 2 INLET

TYPE 1 AND 2 DIMENSIONAL AND REINFORCEMENT DETAILS

10:09:04 AM
8/9/2020

LAST REVISION 11/01/20	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MEDIAN BARRIER INLET TYPES 1 AND 2	INDEX 425-030	SHEET 2 of 4
REVISION						

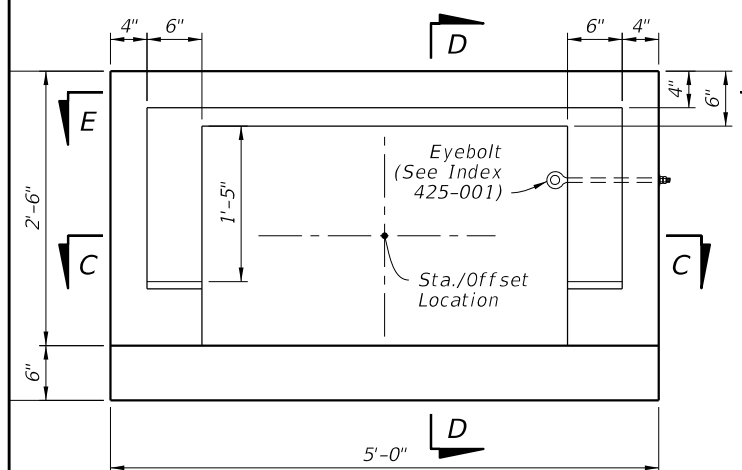


ISOMETRIC VIEW
(Grate Not Shown)

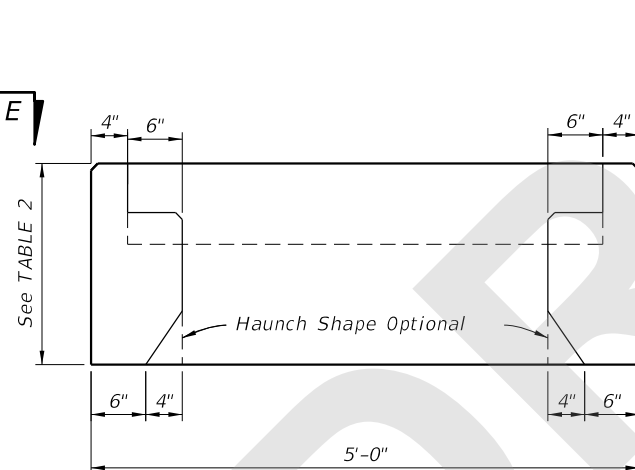
GRATE SLOPE	PRECAST	C-I-P
1:5	1'-11"	1'-11 ³ / ₈ "
1:6	1'-10"	1'-10 ³ / ₈ "

NOTE:

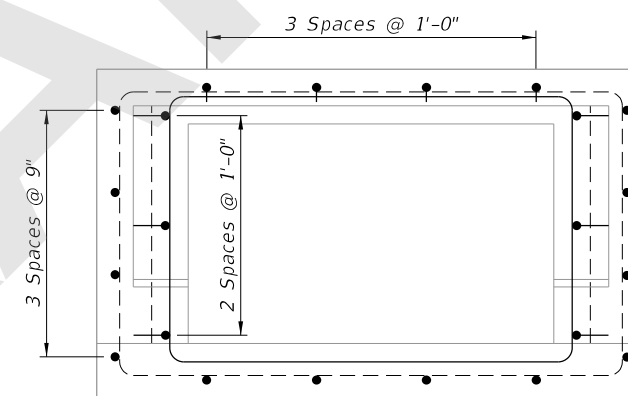
Precast shown, cast in place (C-I-P) similar.



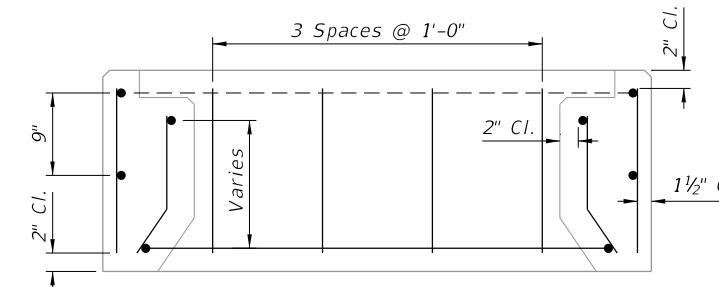
PLAN



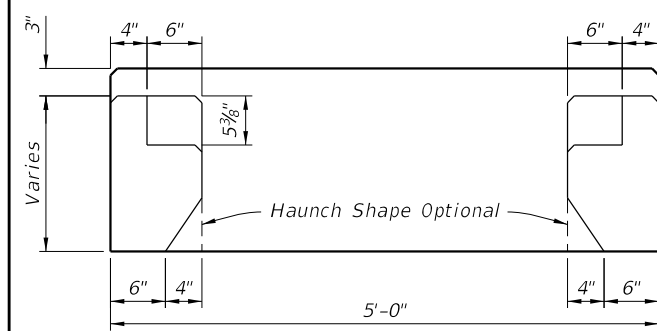
VIEW E-E



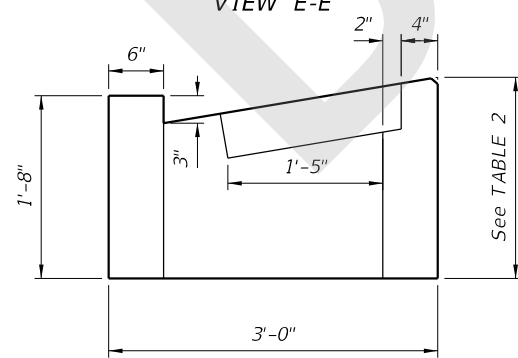
PLAN



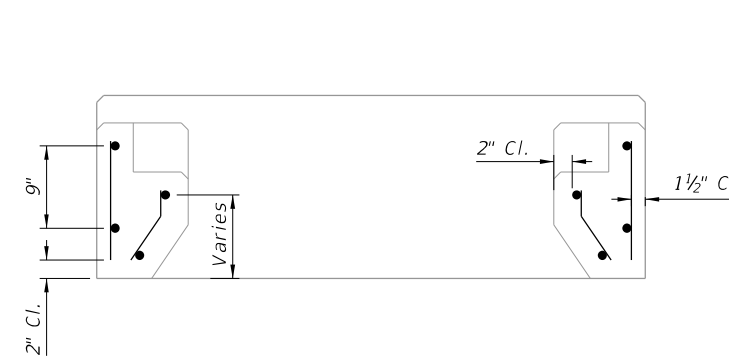
VIEW E-E



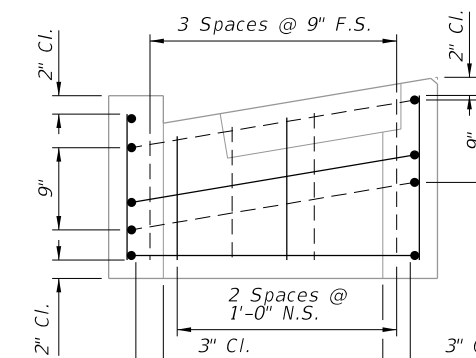
SECTION C-C



SECTION D-D



SECTION C-C



SECTION D-D

DIMENSIONAL DETAILS

REINFORCING DETAILS

TYPE 1 COLLAR DIMENSIONAL AND REINFORCEMENT DETAILS

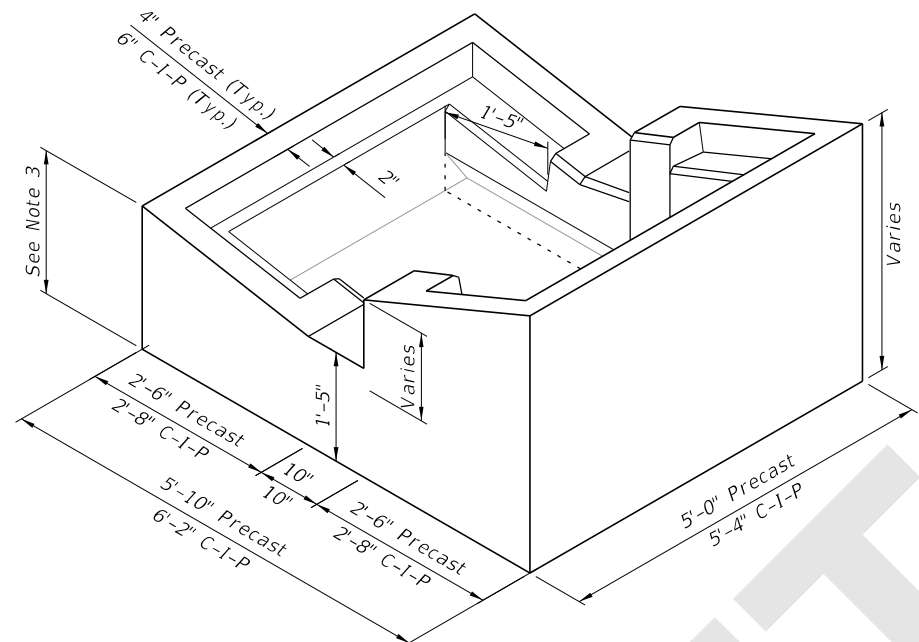
8/9/2020 10:09:08 AM

LAST REVISION	DESCRIPTION:
11/01/20	


**FY 2021-22
STANDARD PLANS**

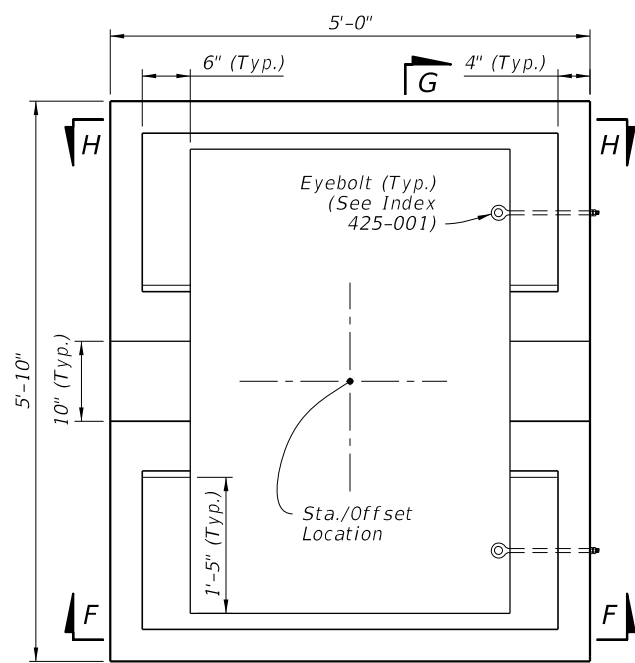
MEDIAN BARRIER INLET TYPES 1 AND 2

INDEX	SHEET
425-030	3 of 4

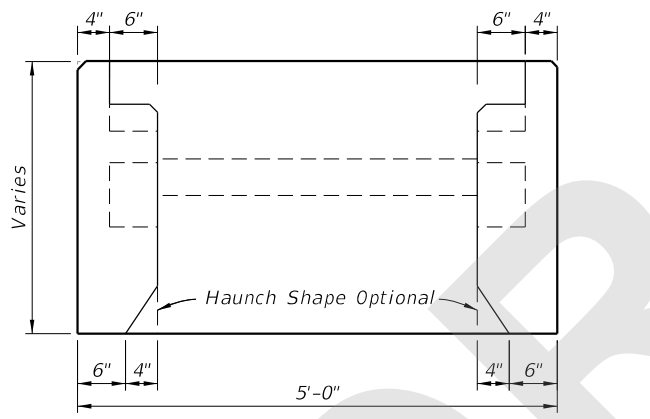


ISOMETRIC VIEW
(Grate Not Shown)

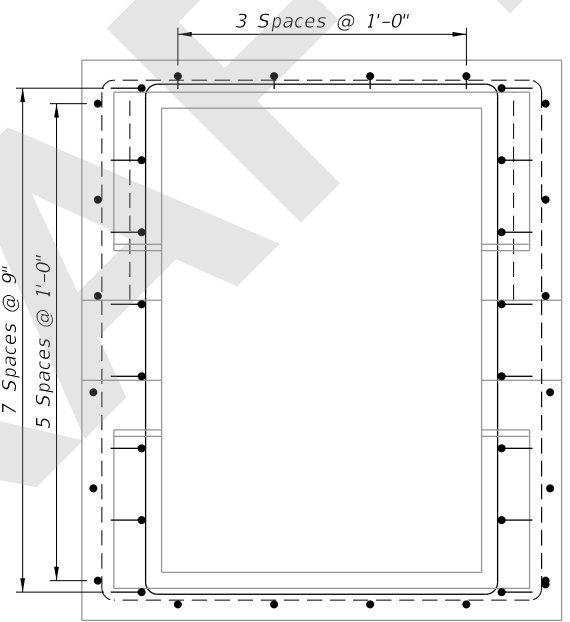
- NOTES:**
1. Precast shown, cast in place (C-I-P) similar.
 2. Place bars at a maximum of 1'-0".
 3. See TABLE 2 on Sheet 3.



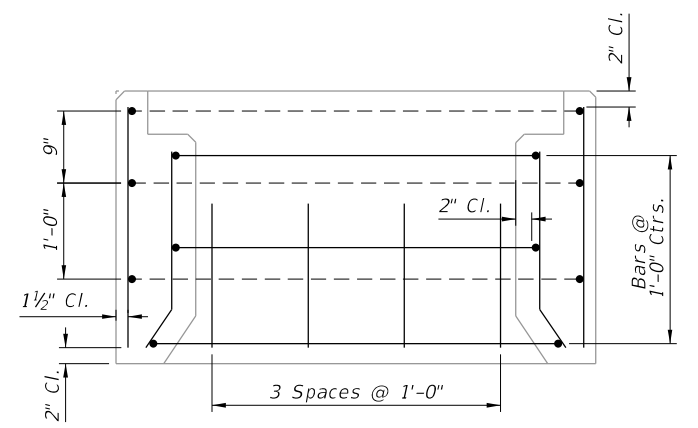
PLAN



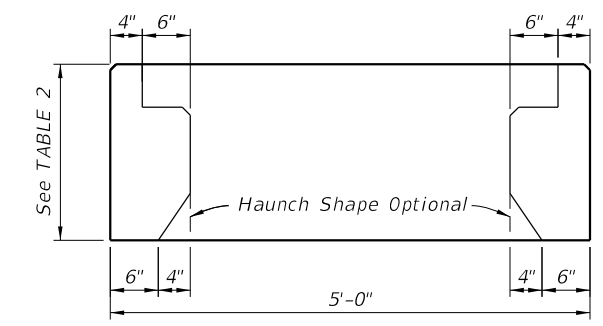
VIEW H-H



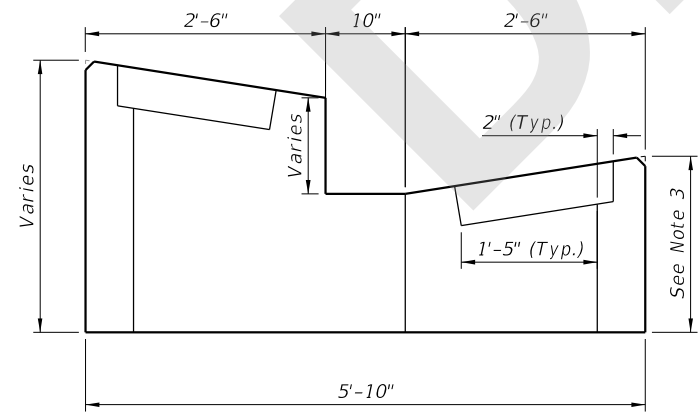
PLAN



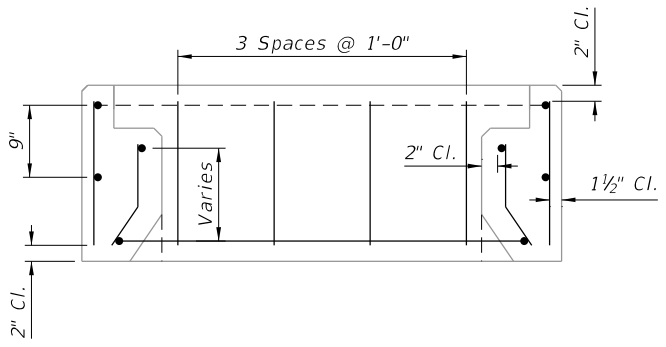
VIEW H-H



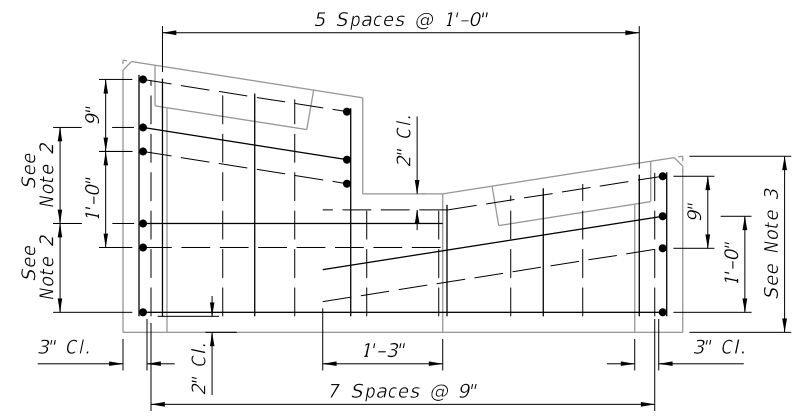
SECTION F-F



SECTION G-G



SECTION F-F



SECTION G-G

DIMENSIONAL DETAILS

REINFORCING DETAILS

TYPE 2 COLLAR DIMENSIONAL AND REINFORCEMENT DETAILS

8/9/2020 10:09:09 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MEDIAN BARRIER INLET TYPES 1 AND 2	INDEX 425-030	SHEET 4 of 4
---------------------------	----------	--------------	--	------------------------------------	------------------	-----------------