
ORIGINATION FORM

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

Contact Information:

Date: November 10, 2019
Originator: Tim Holley
Phone: (850) 414-4117
Email: Tim.Holley@dot.state.fl.us

Standard Plans:

Index Number: 425-021
Sheet Number (s): ALL
Index Title: Curb Inlet Tops Types 5 and 6

Summary of the changes:

Reorganized Index, Added additional Sheet.
Sheet 1: General Notes
Sheet 2: Dimensional Details
Sheet 3: Reinforcing and Bar Bending Details
Sheet 4: Precast Dimensional and Reinforcing Details
Sheet 5: Cast-in-place Dimensional and Reinforcing Details
Sheet 6: Alternate Welded Wire Reinforcing Details
Sheet 7: Grate, Anchor, and Grouting 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. Separated details into dimensional and reinforcing details.

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:

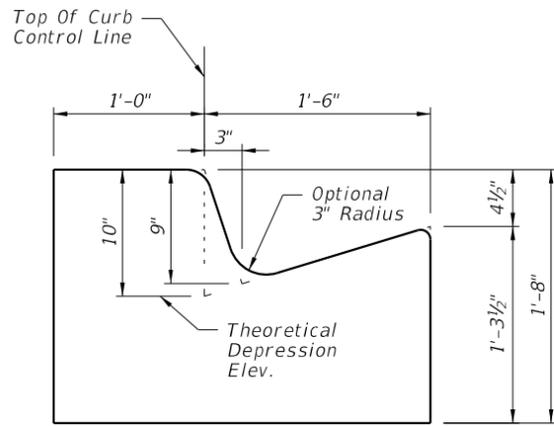
(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input 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

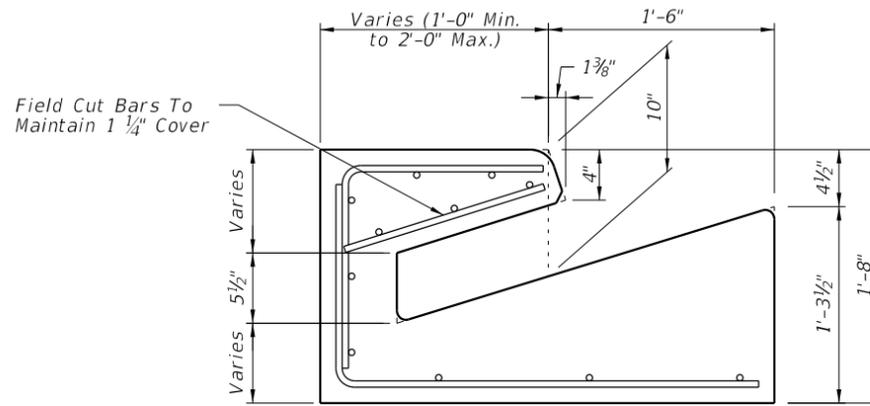
Implementation:

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<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

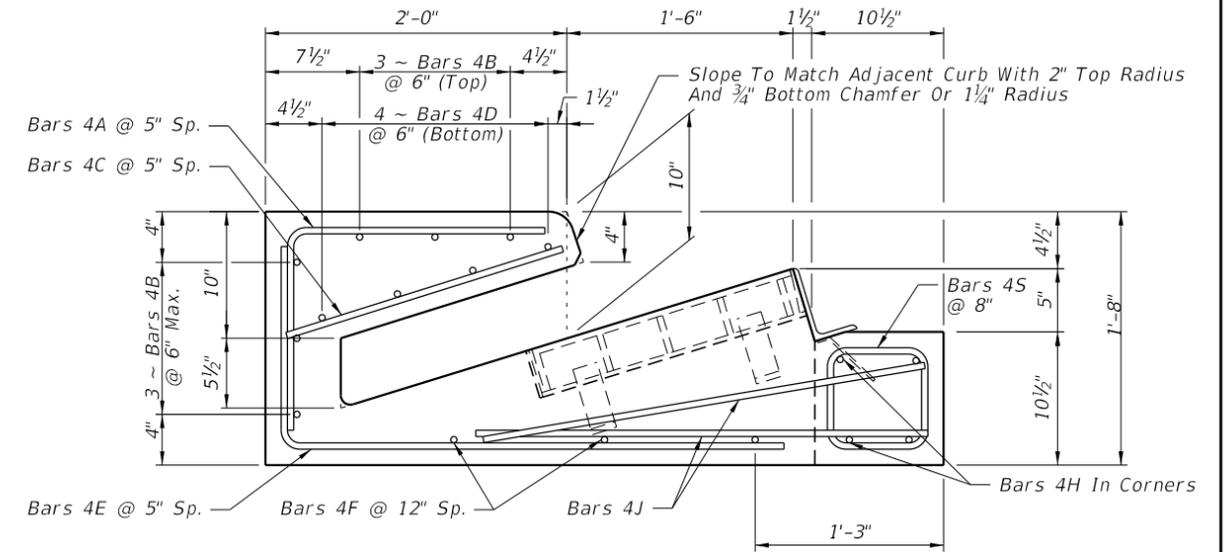
Contact the Roadway Design Office for assistance in completing this form



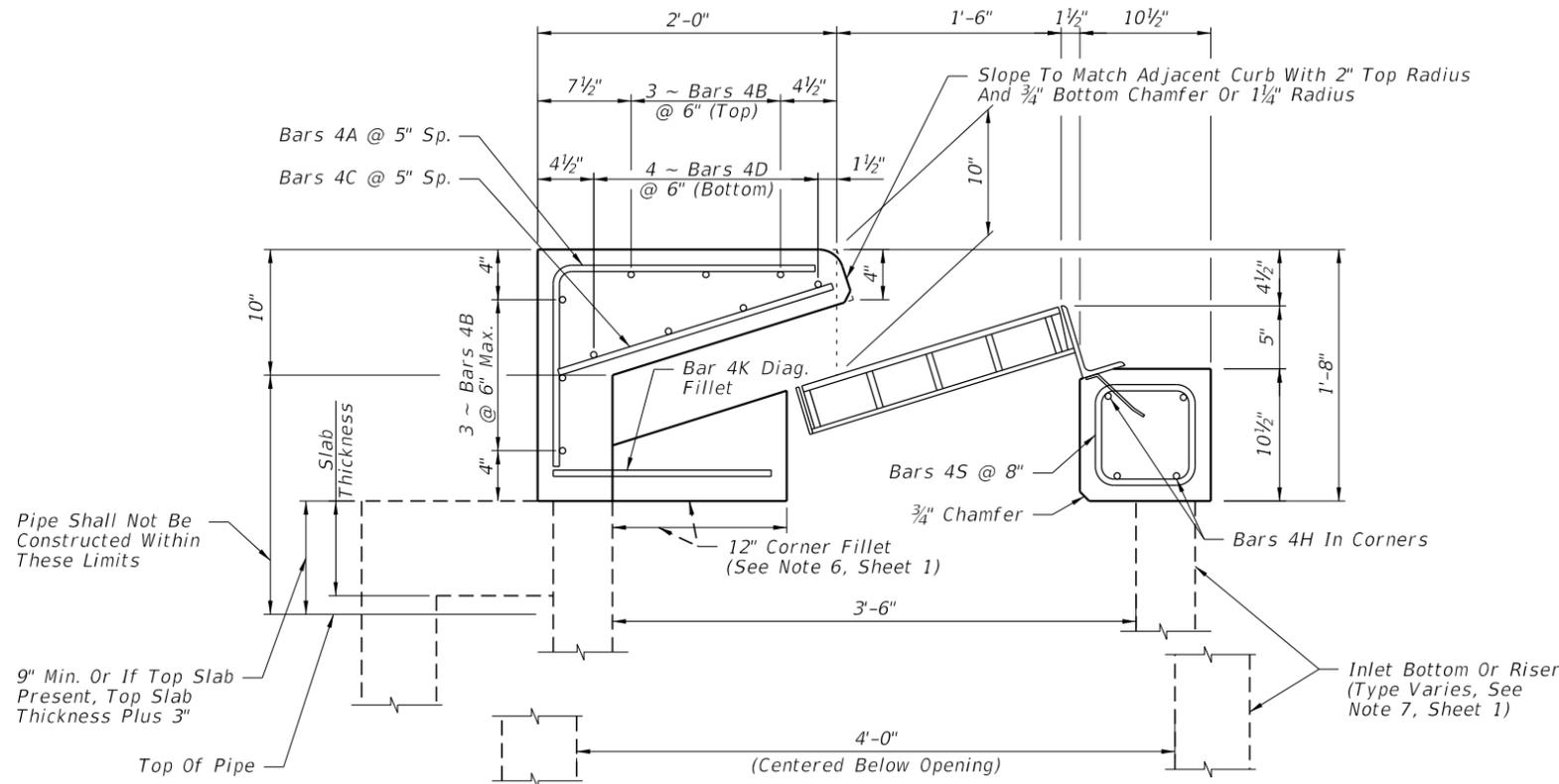
SECTION DD
(End View Of Inlet)



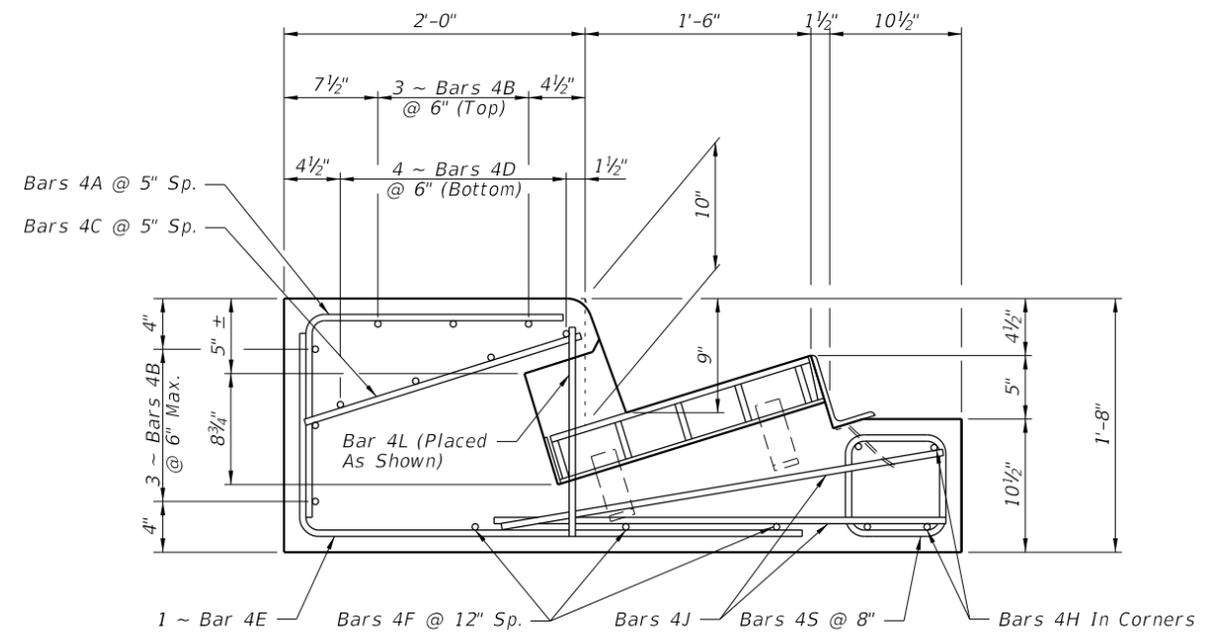
SECTION EE



SECTION FF



SECTION GG



SECTION HH
(Type 5 Inlet Only)

SHEET 4

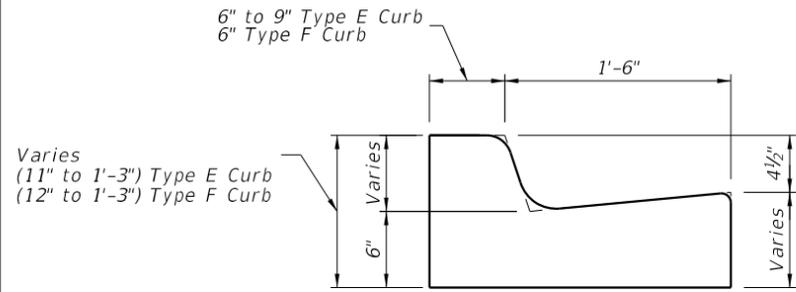
CROSS REFERENCES:
For General Notes See Sheet 1.
For Location Of Sections DD
Thru HH See Sheet 1.

PRECAST DETAILS

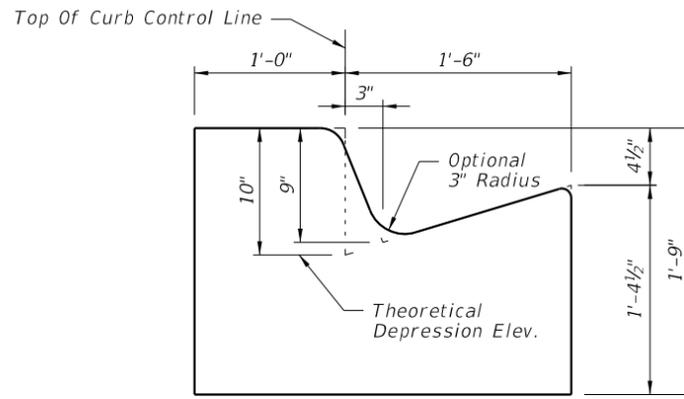
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LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	CURB INLET TOPS TYPES 5 AND 6	INDEX 425-021	SHEET 2 of 5
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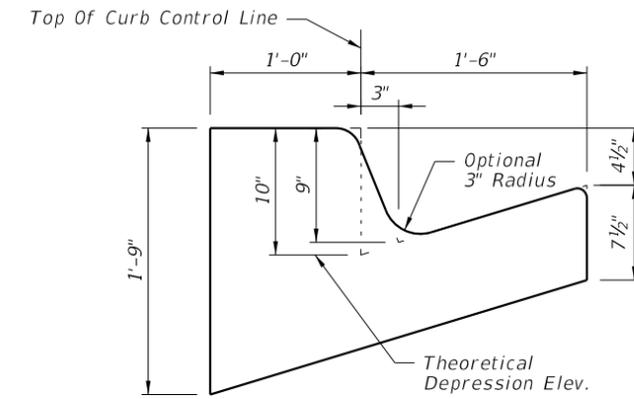
SHEET 5



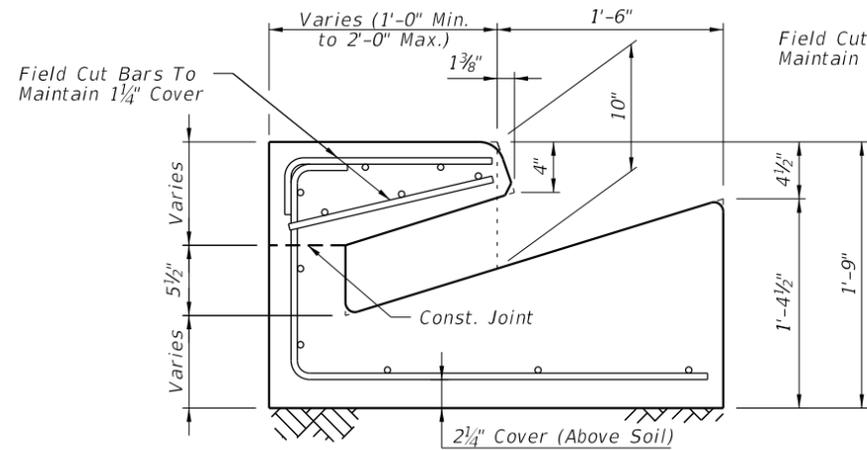
SECTION CC
(Gutter Transition
Type F Shown, Type E Similar)



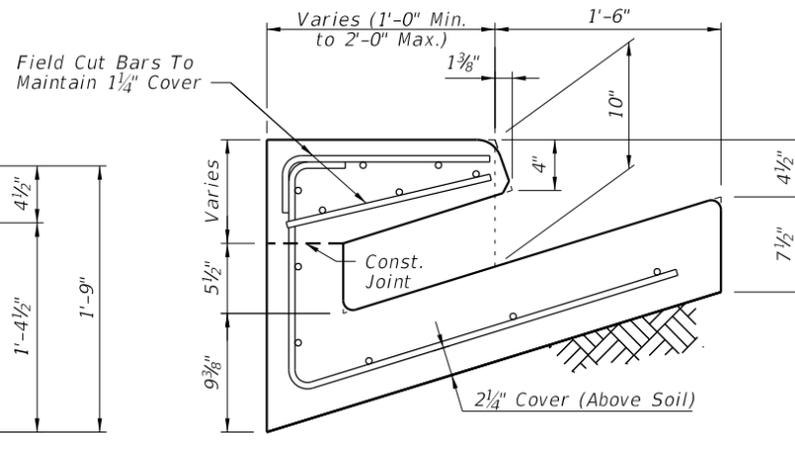
SECTION DD (OPTION A)
(End View Of Inlet)



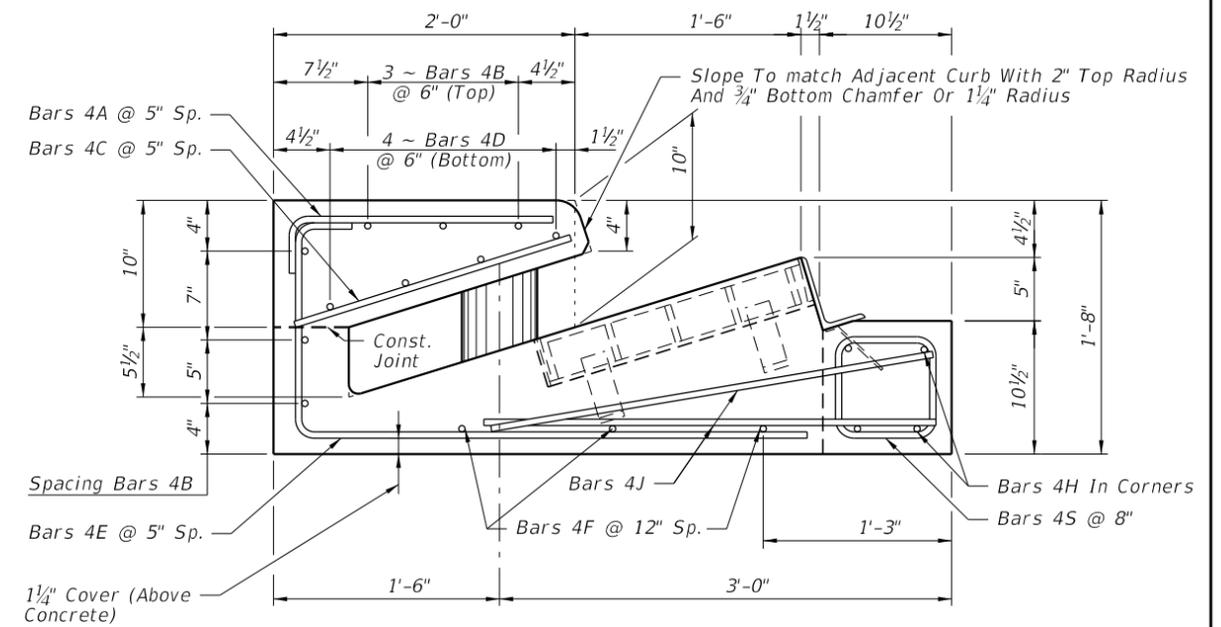
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(End View Of Inlet)



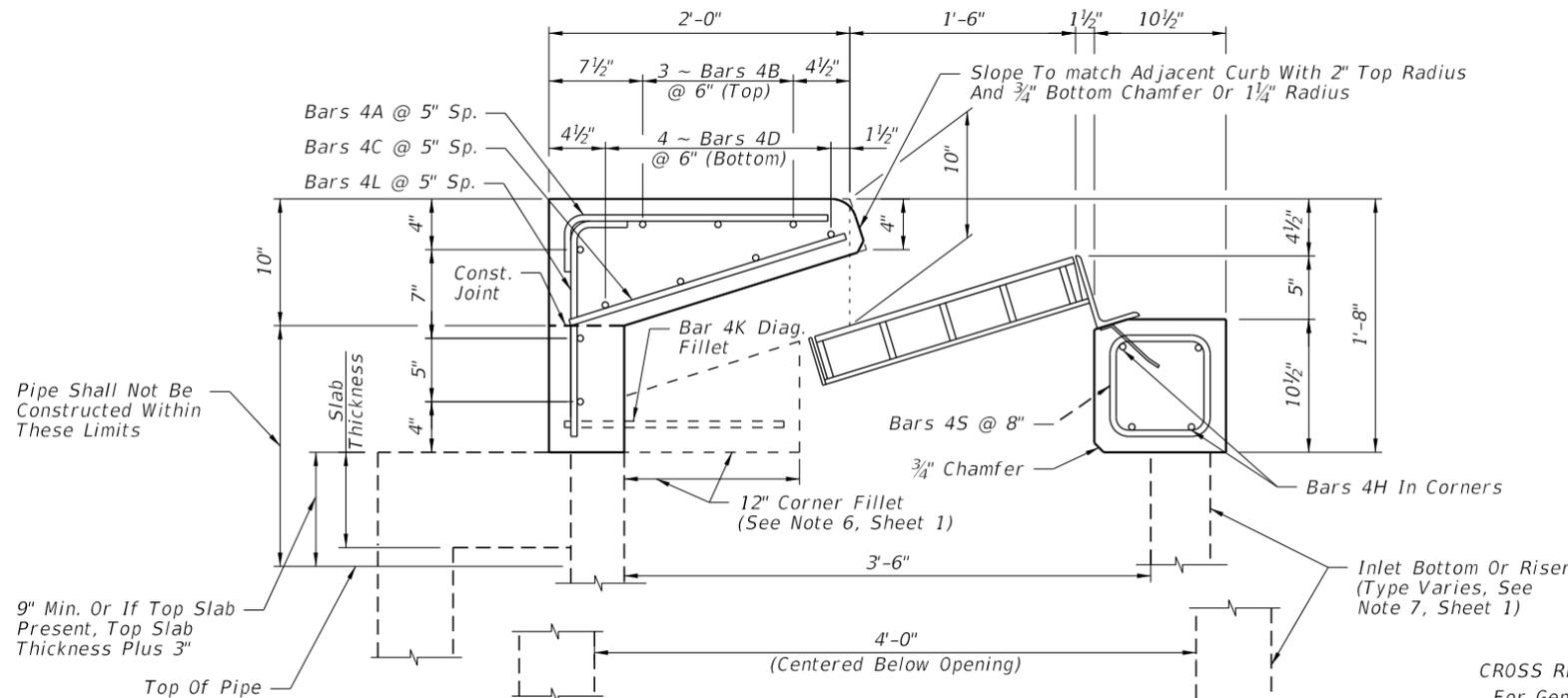
SECTION EE (OPTION A)



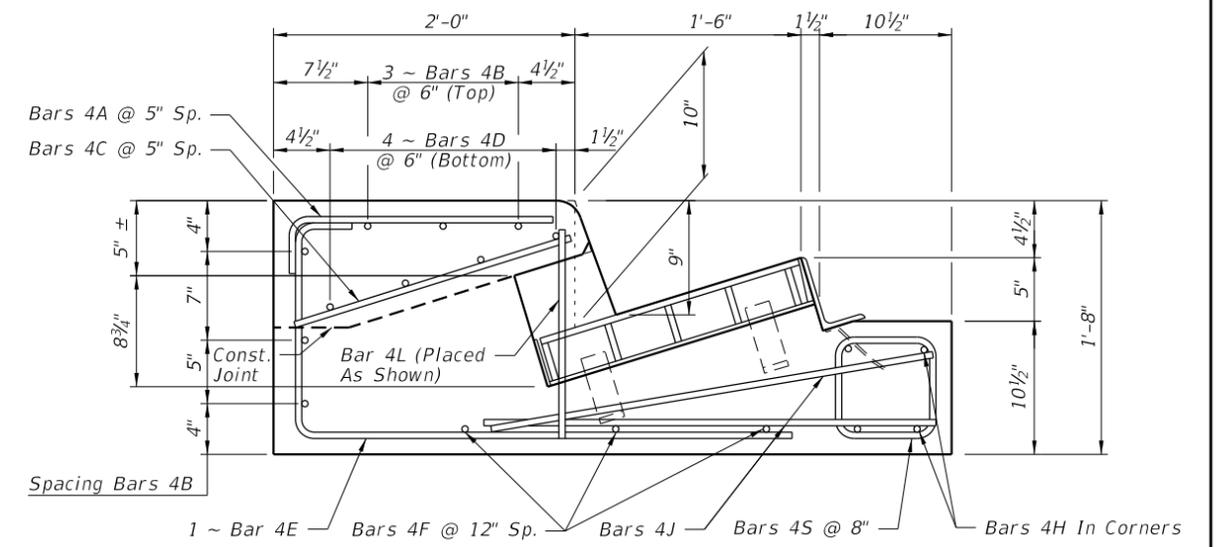
SECTION EE (OPTION B)



SECTION FF



SECTION GG



SECTION HH (Type 5 Inlet Only)

CROSS REFERENCES:
For General Notes See Sheet 1.
For Location Of Sections CC Thru HH See Sheet 1.

CAST-IN-PLACE DETAILS

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LAST REVISION 11/01/17	DESCRIPTION:
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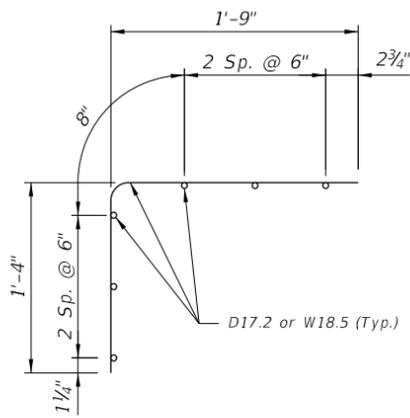
FY 2019-20
STANDARD PLANS

CURB INLET TOPS TYPES 5 AND 6

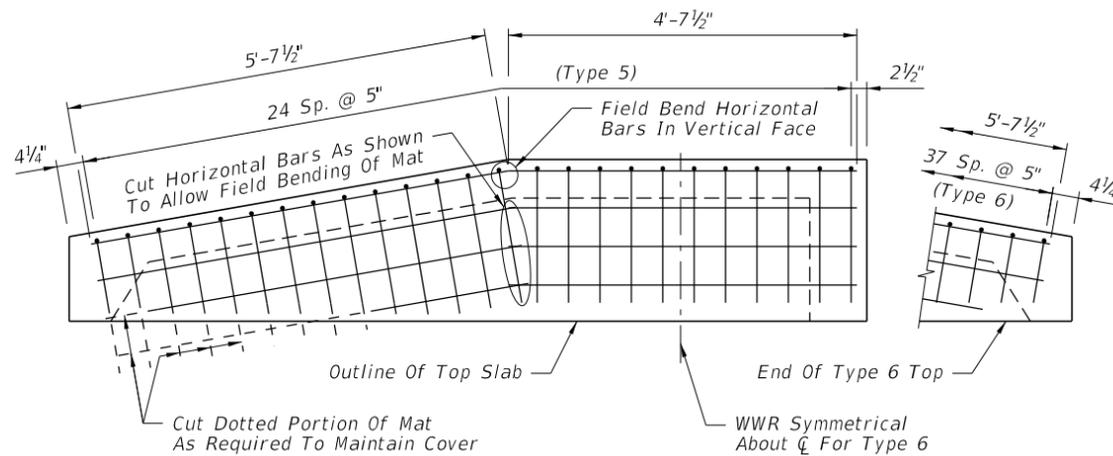
INDEX
425-021

SHEET
3 of 5

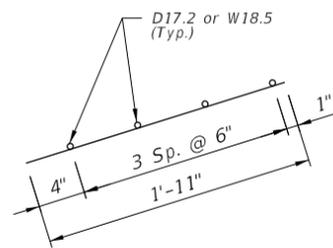
ALTERNATE REINFORCING STEEL DETAILS FOR WELDED WIRE REINFORCEMENT (WWR)



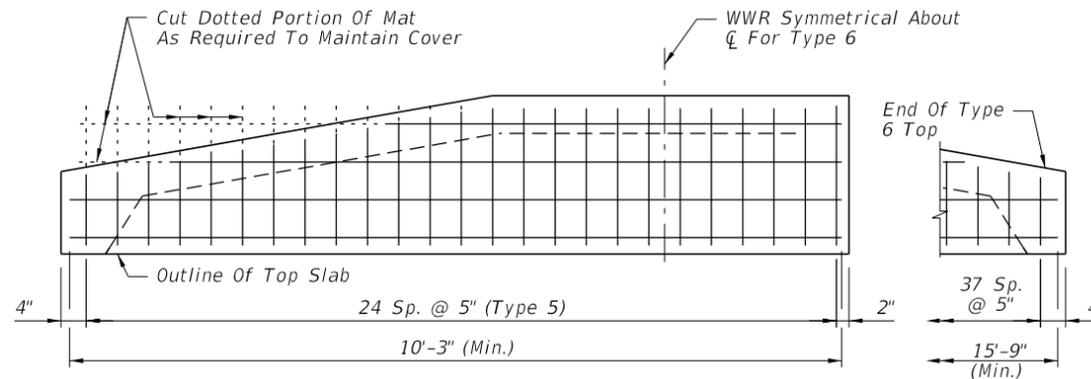
WELDED WIRE REINFORCEMENT
PIECE NO. 1



PLACEMENT SCHEMATIC FOR WELDED
WIRE REINFORCEMENT PIECE NO. 1

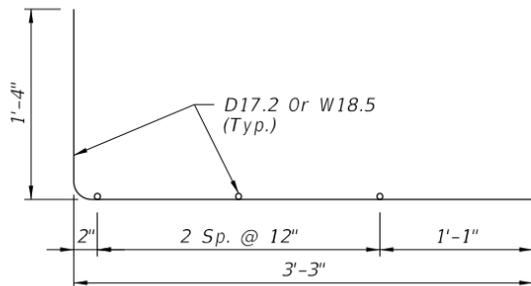


WELDED WIRE REINFORCEMENT
PIECE NO. 2

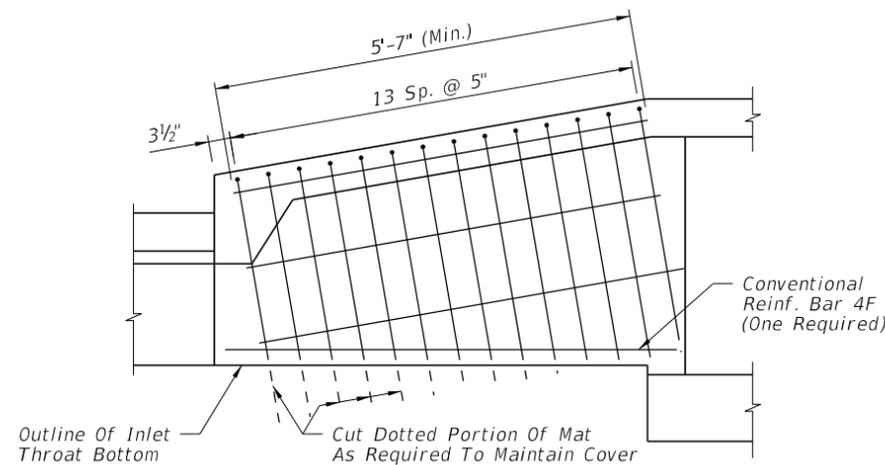


PLACEMENT SCHEMATIC FOR WELDED
WIRE REINFORCEMENT PIECE NO. 2

SHEET 6



WELDED WIRE REINFORCEMENT
PIECE NO. 3



PLACEMENT SCHEMATIC FOR WELDED
WIRE REINFORCEMENT PIECE NO. 3

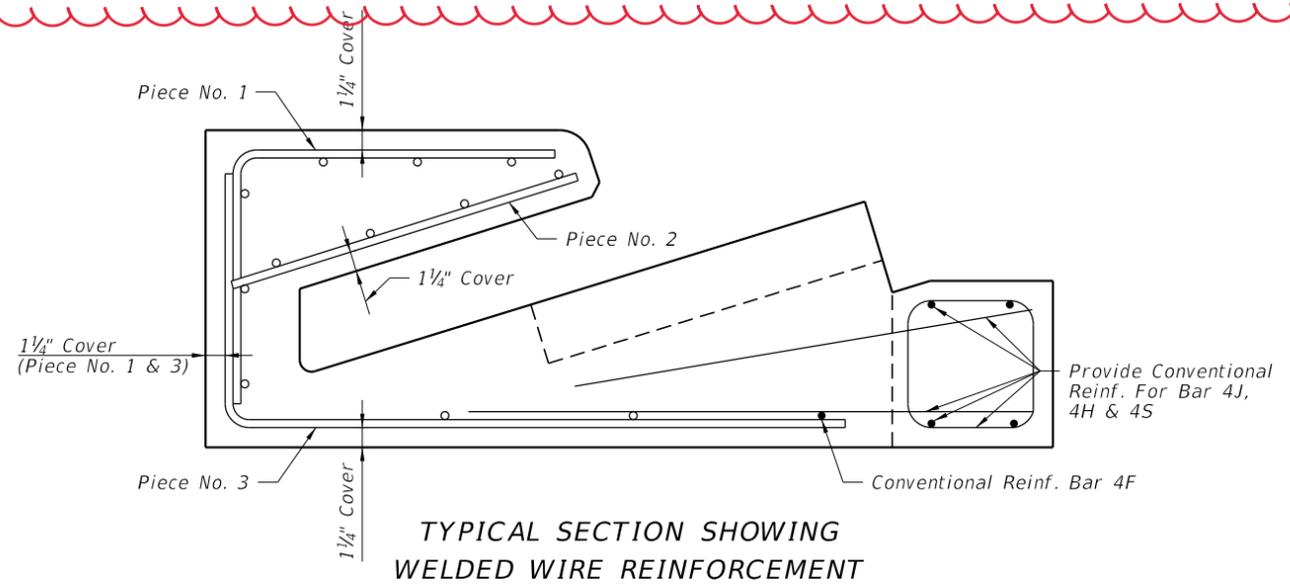
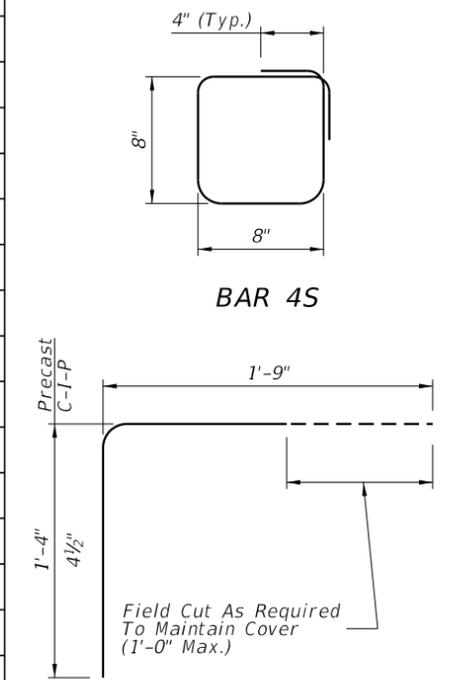
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL

MARK	SIZE	TYPE 5 INLET		TYPE 6 INLET	
		NO.	LENGTH	NO.	LENGTH
A (Precast)	4	25	3'-1"	38	3'-1"
A (C-I-P)	4	25	2'-1 1/2"	38	2'-1 1/2"
B	4	6	10'-3"	6	15'-9"
C	4	25	11" to 1'-11"	38	11" to 1'-11"
D	4	4	10'-3"	4	15'-9"
E	4	16	4'-11 1/2"	30	4'-11 1/2"
F	4	3	6'-0"	6	6'-0"
H	4	4	4'-6"	4	4'-6"
J	4	4	3'-0"	4	3'-0"
K (Fillet)	4	2	2'-3"	2	2'-3"
L (Precast)	4	1	1'-4"	0	---
L (C-I-P)	4	10	1'-4"	9	1'-4"
S	4	7	3'-2"	7	3'-2"

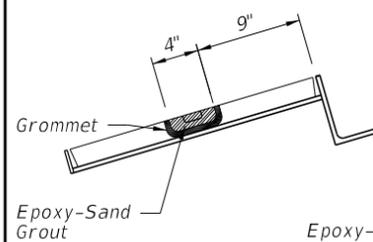
- REINFORCING STEEL NOTES:
- All bar dimensions in the bending diagrams are out to out.
 - Bars 4A and 4E may be combined into a single bar.
 - Welded Wire Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification Section 931.

MOVED TO SHEET 3

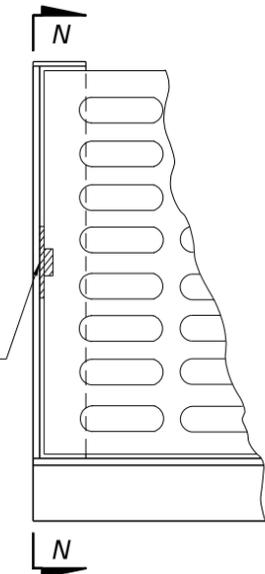


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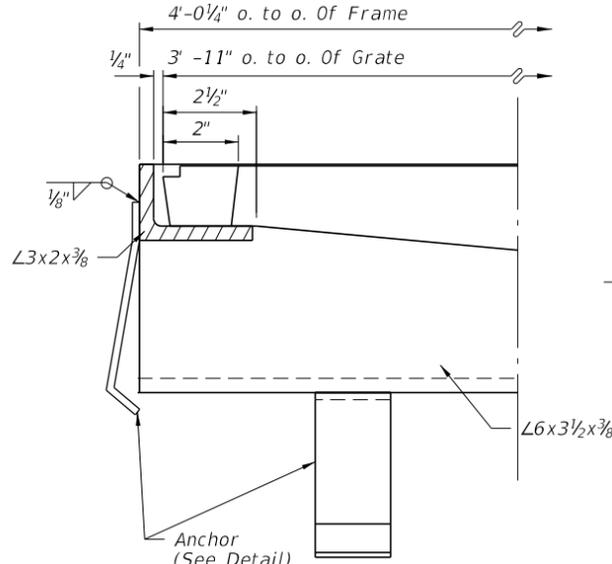
LAST REVISION	DESCRIPTION:
11/01/17	



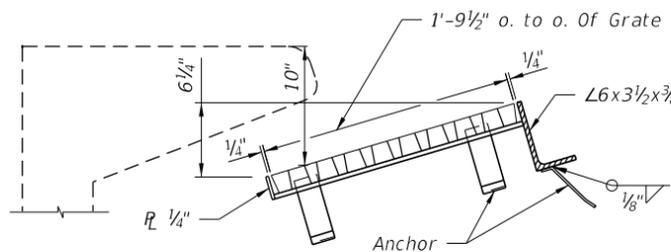
SECTION NN



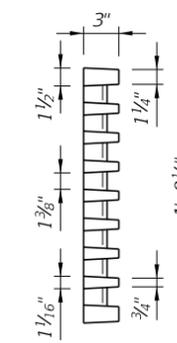
TOP VIEW
CAST IRON GRATE



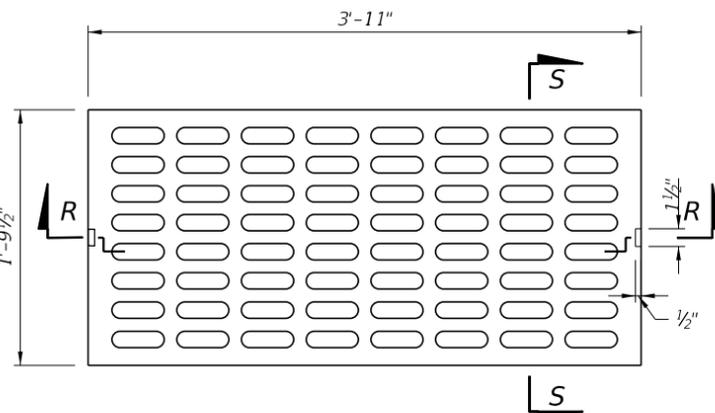
SECTION QQ



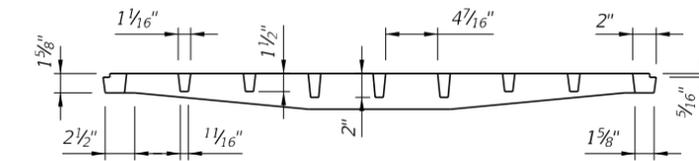
SECTION GG



SECTION SS

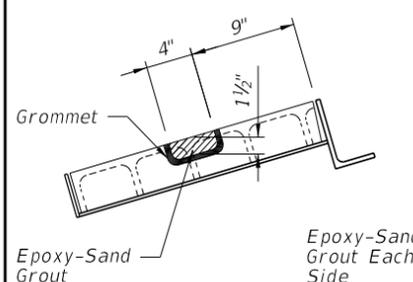


TOP VIEW

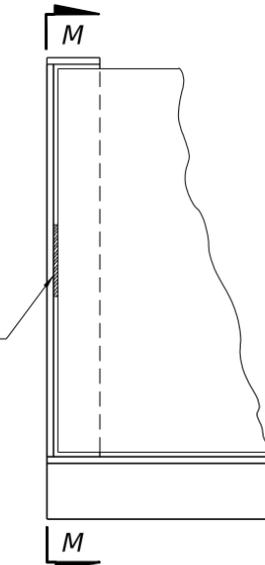


SECTION RR

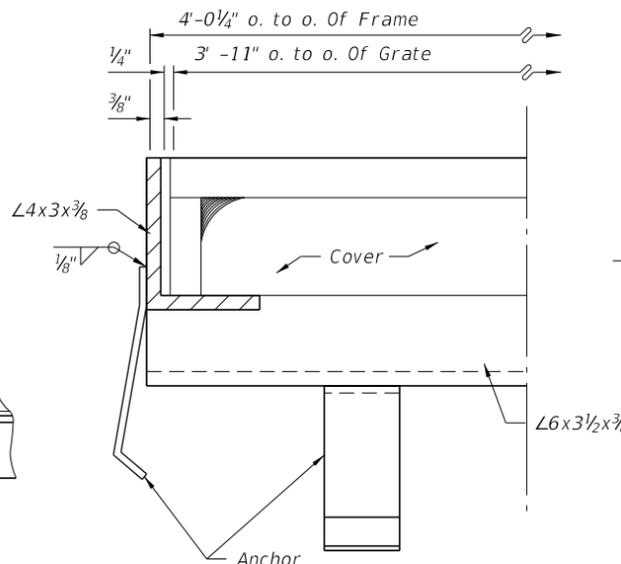
CAST IRON GRATE



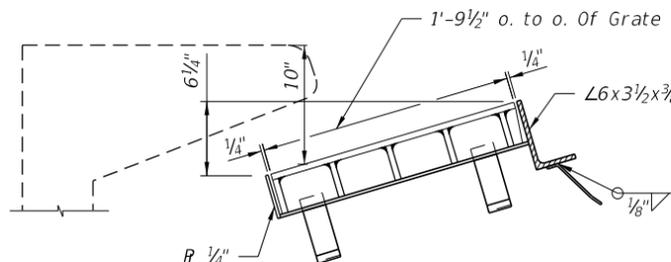
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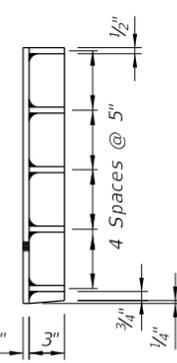
TOP VIEW
STEEL GRATE



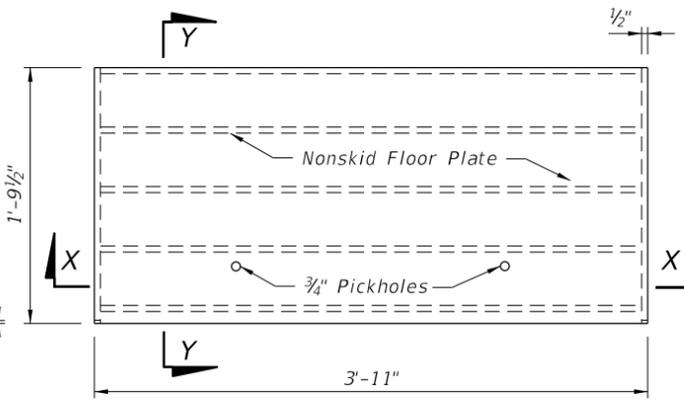
SECTION QQ



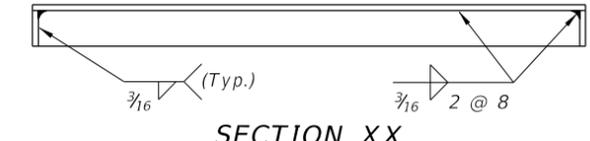
SECTION GG



SECTION YY



TOP VIEW



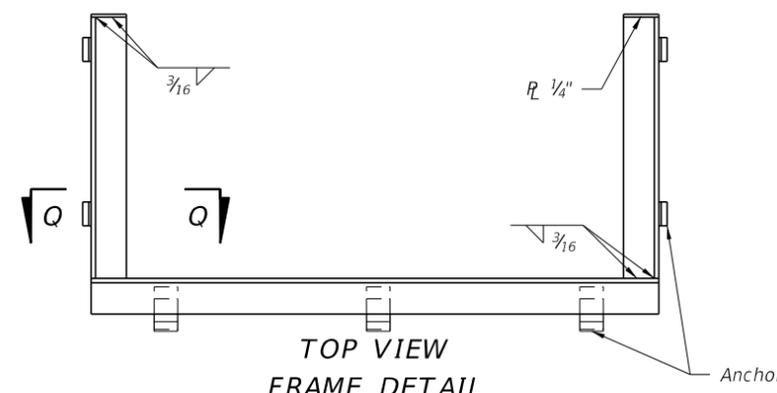
SECTION XX

STEEL GRATE

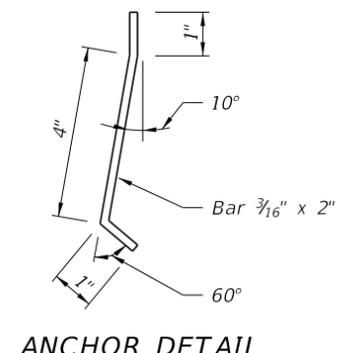
GROUTING DETAILS

SHEET 7
Sheet Reorganized

CROSS REFERENCES:
For Location Of Section GG and QQ
See Sheet 1.



TOP VIEW
FRAME DETAIL



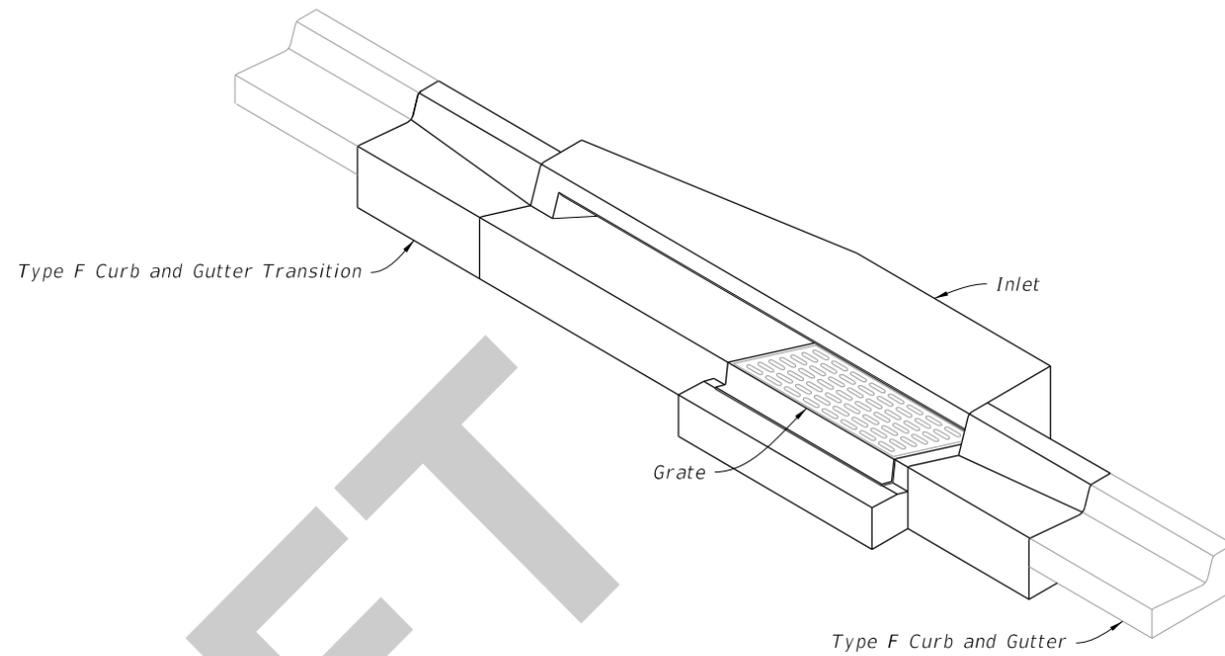
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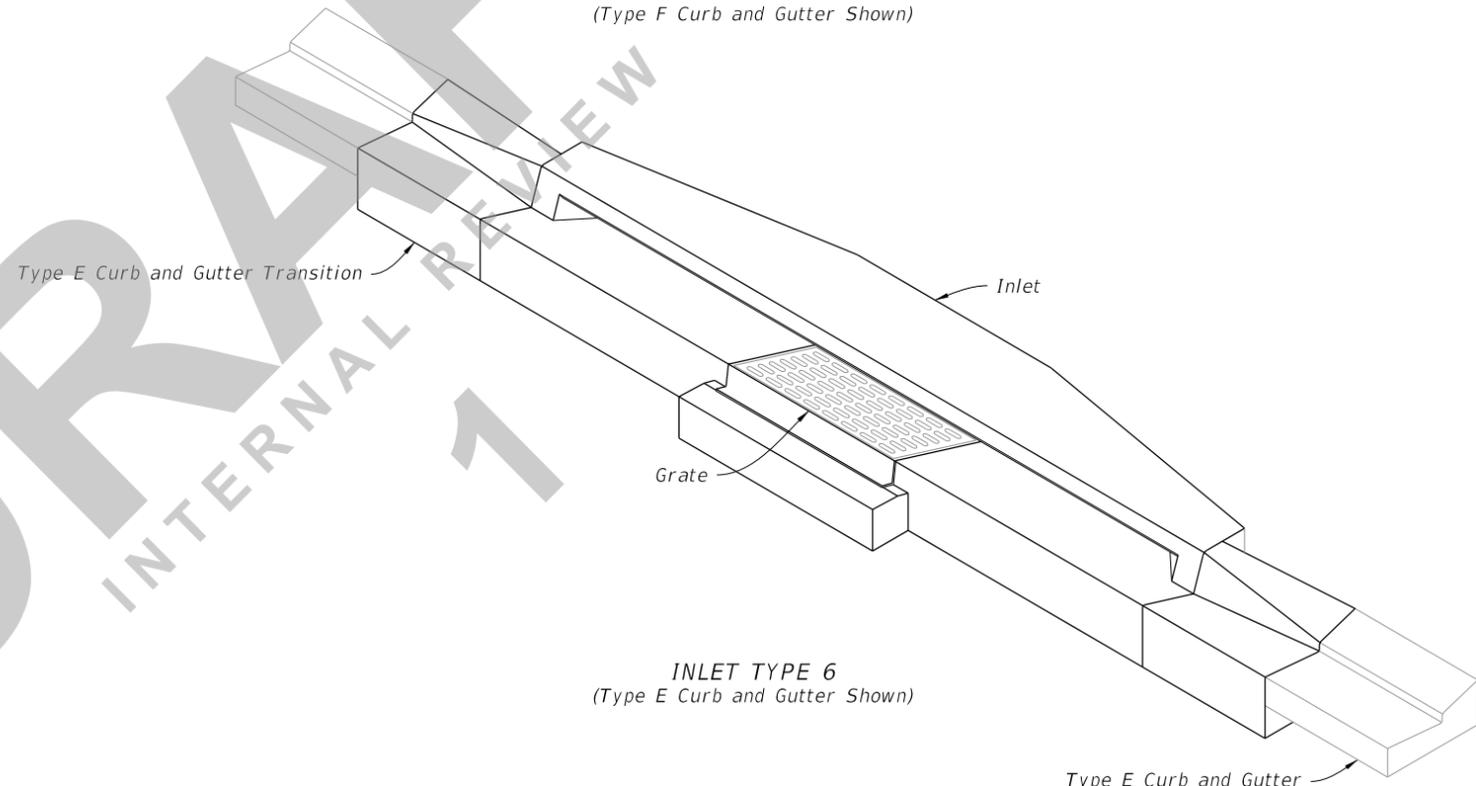
LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	CURB INLET TOPS TYPES 5 AND 6	INDEX 425-021	SHEET 5 of 5
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GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Conform the finished grade and slope of the inlet tops with the finished cross slope and grade of the proposed sidewalk and/or border.
3. For inlets constructed on a curve, refer to the plans to determine the radius. Bend steel when necessary.
4. Use Grade 60 reinforcing bars with 1¼" minimum cover unless otherwise shown, see Sheet 6 for equivalent area Welded Wire Reinforcement details.
5. Inlet tops may be either cast-in-place or precast concrete. Conform precast units to the dimensions shown or in accordance with approved shop drawings.
6. Corner fillets are required at inlet opening for precast units or C-I-P units used in conjunction with circular inlet bottoms or skewed rectangular inlet boxes. Finish top of fillets flush with drain throat bottom and match slope.
7. For Type E curb and gutter, transition the shape of the curb over the gutter transition length to match the face of the inlet (Type Ft).
8. Meet the requirements of ASTM A36/A36M with steel used for frames and grates.
9. Use either cast iron grates or steel grates.



INLET TYPE 5
(Type F Curb and Gutter Shown)

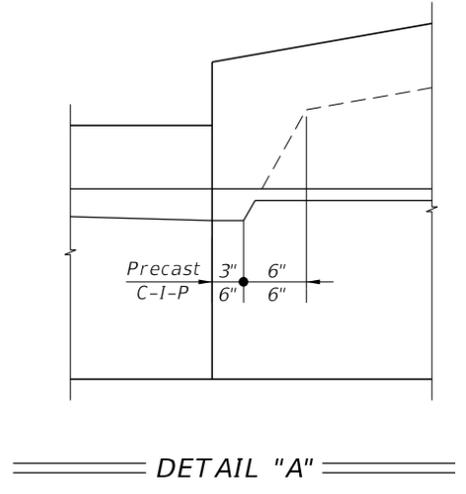
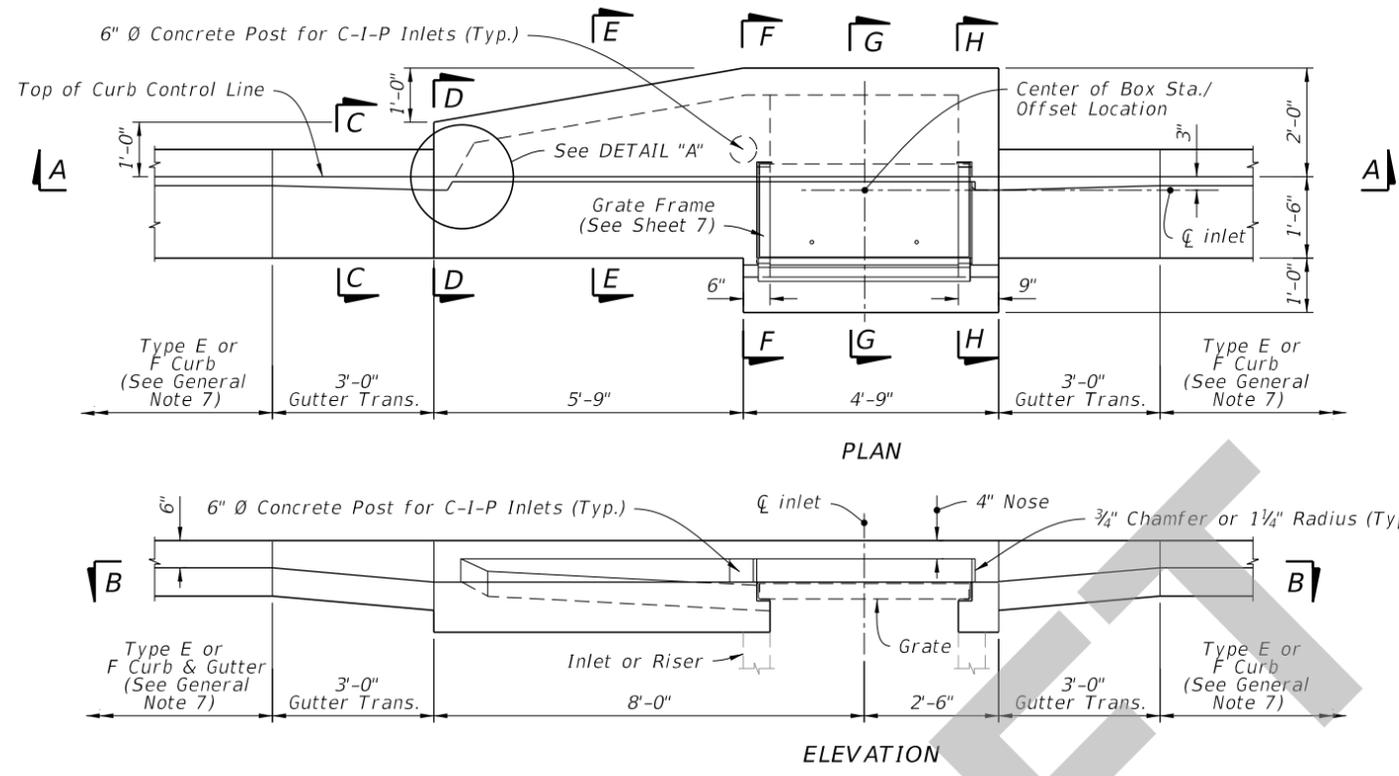


INLET TYPE 6
(Type E Curb and Gutter Shown)

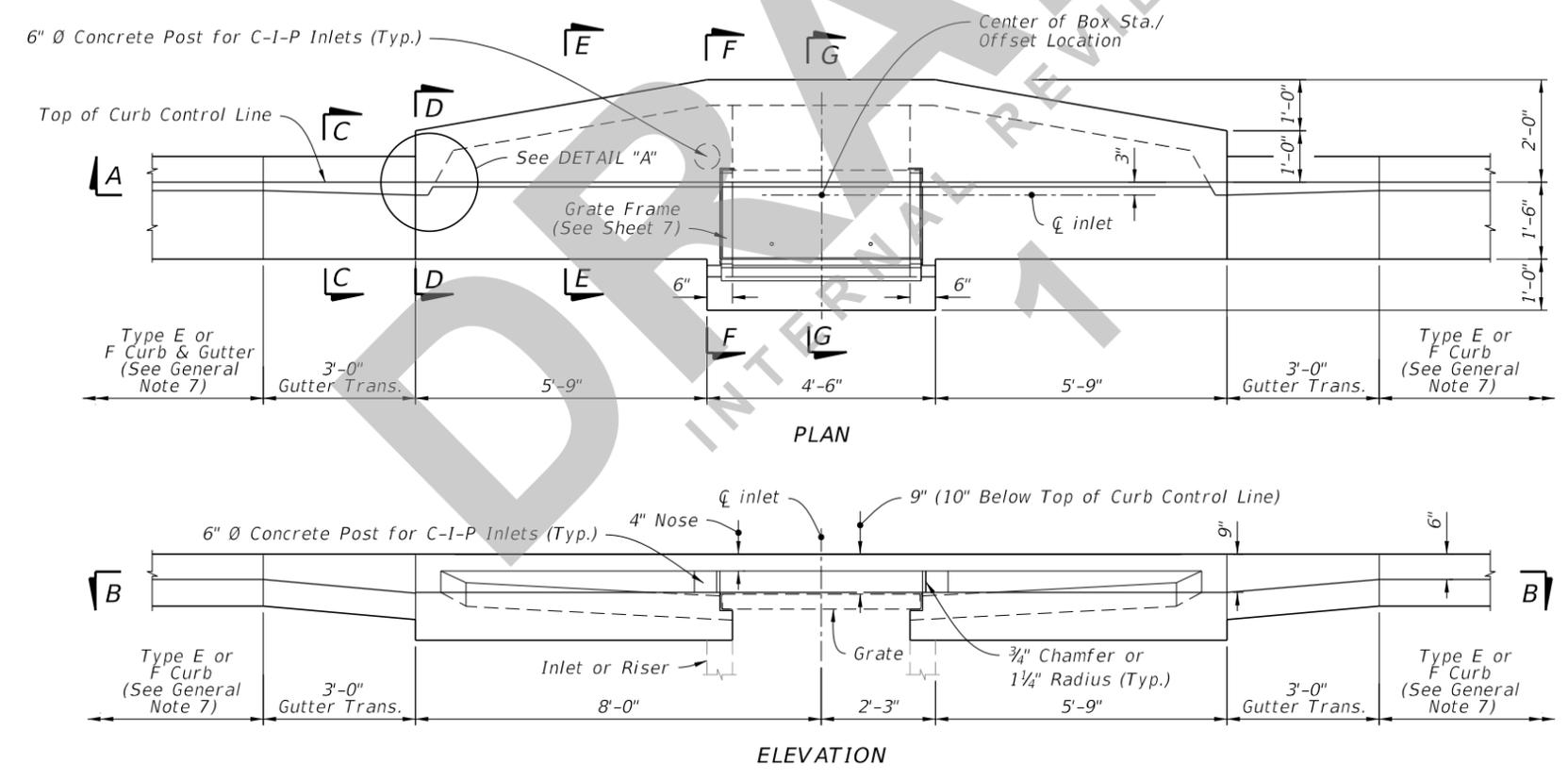
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type 5 and 6 Dimensional Details
3	Type 5 and 6 Reinforcing and Bar Bending Details
4	Precast Dimensional and Reinforcing Details
5	Cast-In-Place Dimensional and Reinforcing Details
6	Alternate Welded Wire Reinforcing (WWR) Details
7	Grate, Anchor, and Grouting Details

=====**CURB INLETS TOPS**=====

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TYPE 5 DIMENSIONAL DETAILS

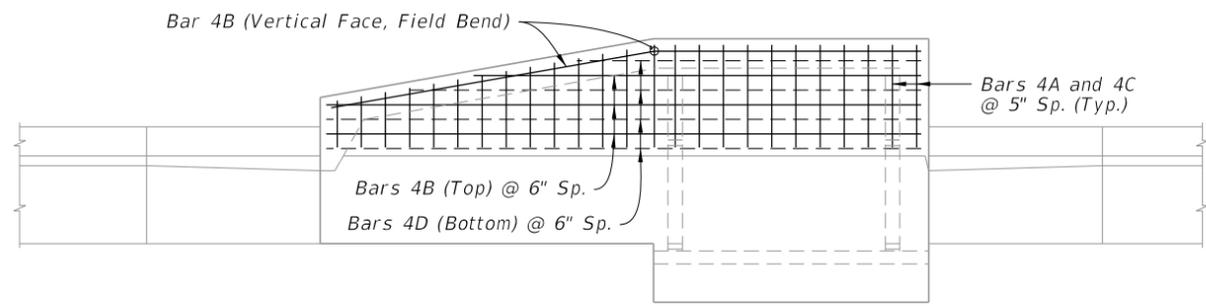


TYPE 6 DIMENSIONAL DETAILS

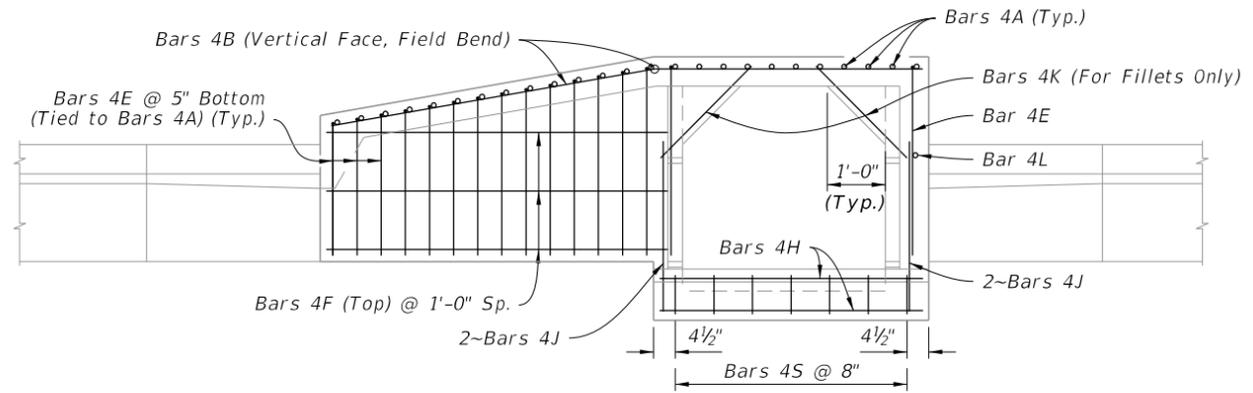
TYPE 5 AND 6 DIMENSIONAL DETAILS

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LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	INDEX 425-021	SHEET 2 of 7
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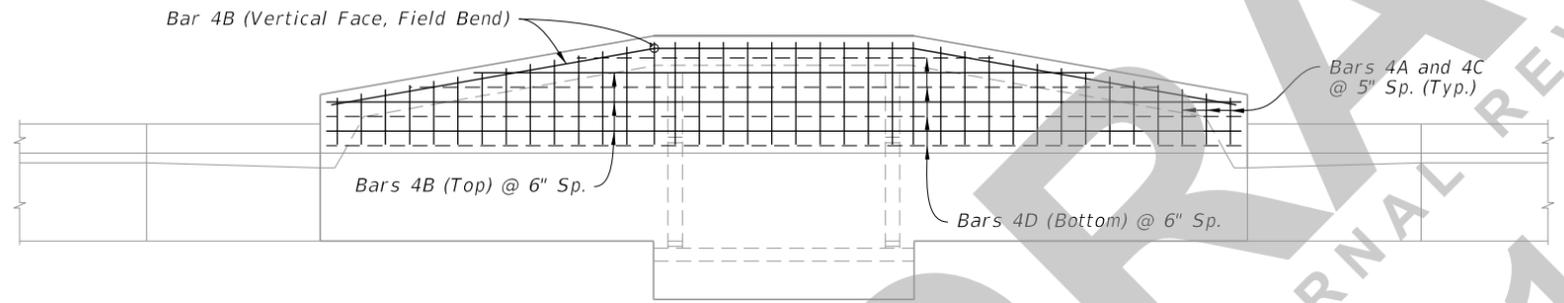


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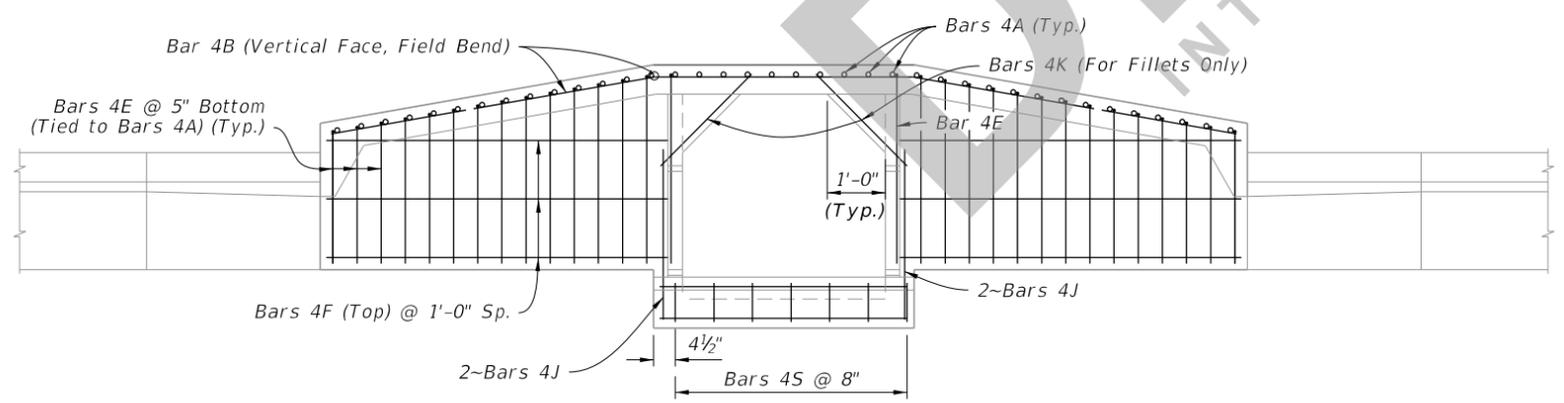


SECTION B-B

TYPE 5 REINFORCING DETAILS

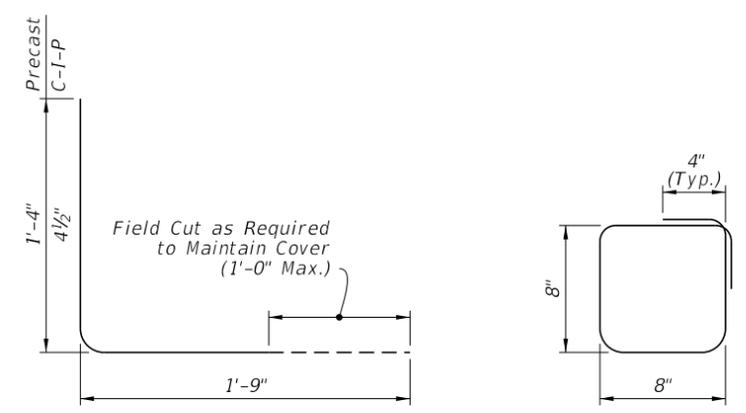


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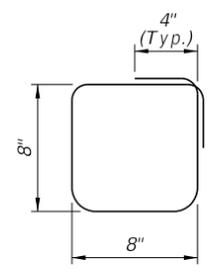


SECTION B-B

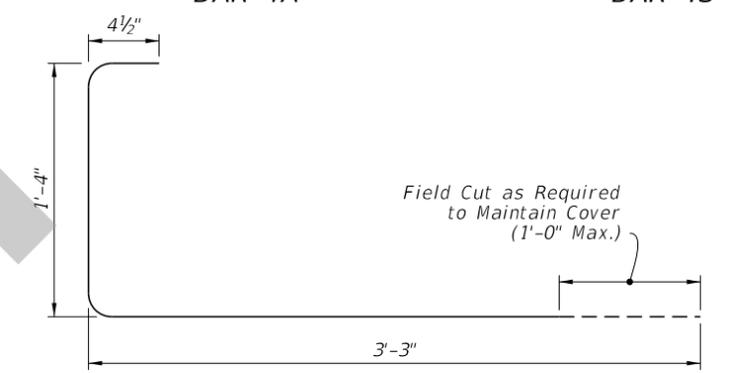
TYPE 6 REINFORCING DETAILS



BAR 4A



BAR 4S



BAR 4E

BILL OF REINFORCING STEEL					
MARK	SIZE	TYPE 5 INLET		TYPE 6 INLET	
		NO.	LENGTH	NO.	LENGTH
A (Precast)	4	25	3'-1"	38	3'-1"
A (C-I-P)	4	25	2'-1 1/2"	38	2'-1 1/2"
B	4	6	10'-3"	6	15'-9"
C	4	25	11" to 1'-11"	38	11" to 1'-11"
D	4	4	10'-3"	4	15'-9"
E	4	16	4'-11 1/2"	30	4'-11 1/2"
F	4	3	6'-0"	6	6'-0"
H	4	4	4'-6"	4	4'-6"
J	4	4	3'-0"	4	3'-0"
K (Fillet)	4	2	2'-3"	2	2'-3"
L (Precast)	4	1	1'-4"	0	---
L (C-I-P)	4	10	1'-4"	9	1'-4"
S	4	7	3'-2"	7	3'-2"

- NOTES:**
- All bar dimensions in the bending diagrams are out to out.
 - Bars 4A and 4E may be combined into a single bar.
 - Welded Wire Reinforcement consists of smooth or deformed wire meeting the requirements of Specification 931.

TYPE 5 AND 6 REINFORCING AND BAR BENDING DETAILS

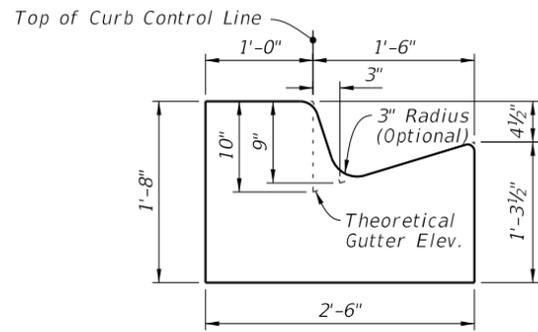
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LAST REVISION 11/01/20	DESCRIPTION:
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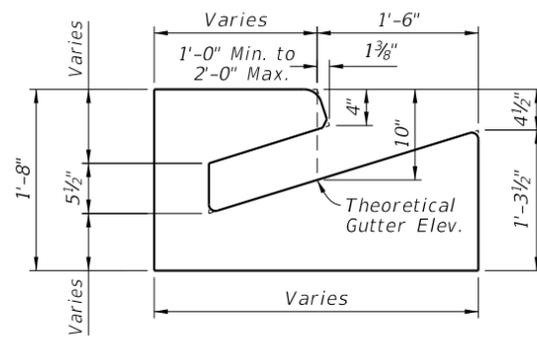

**FY 2021-22
STANDARD PLANS**

CURB INLET TOP TYPES 5 AND 6

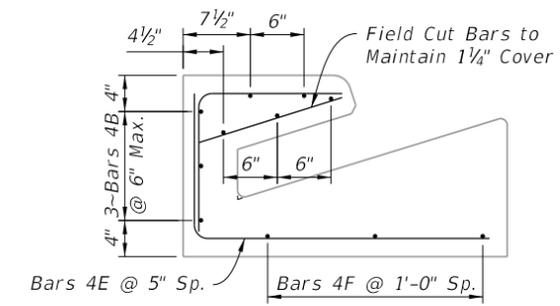
INDEX 425-021	SHEET 3 of 7
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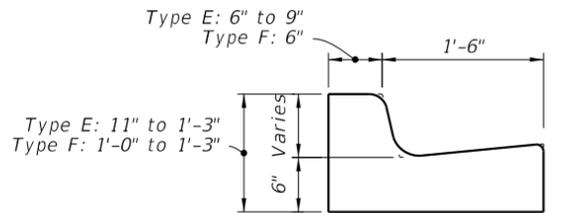
SECTION D-D



SECTION E-E

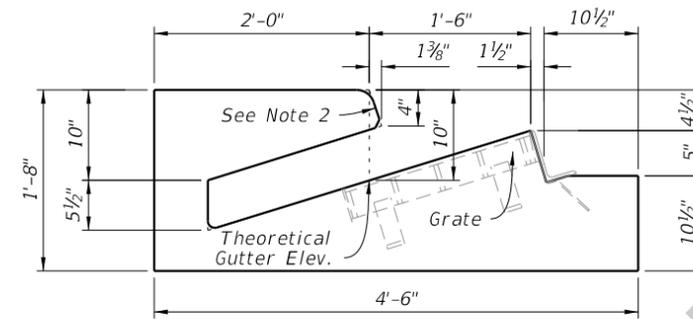


SECTION E-E

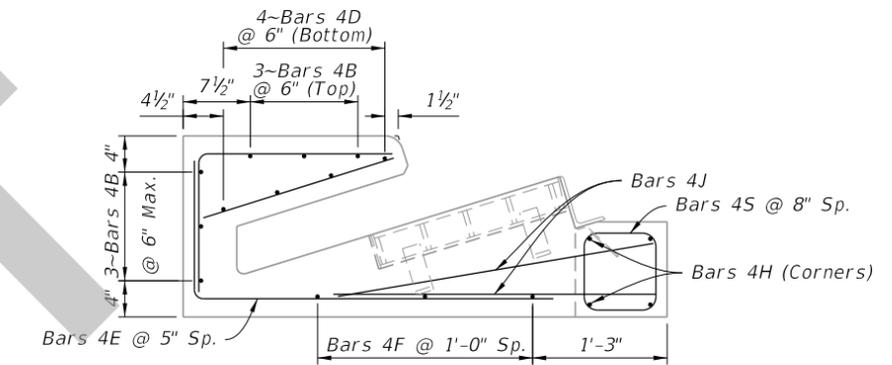


Type F Shown, Type E Similar

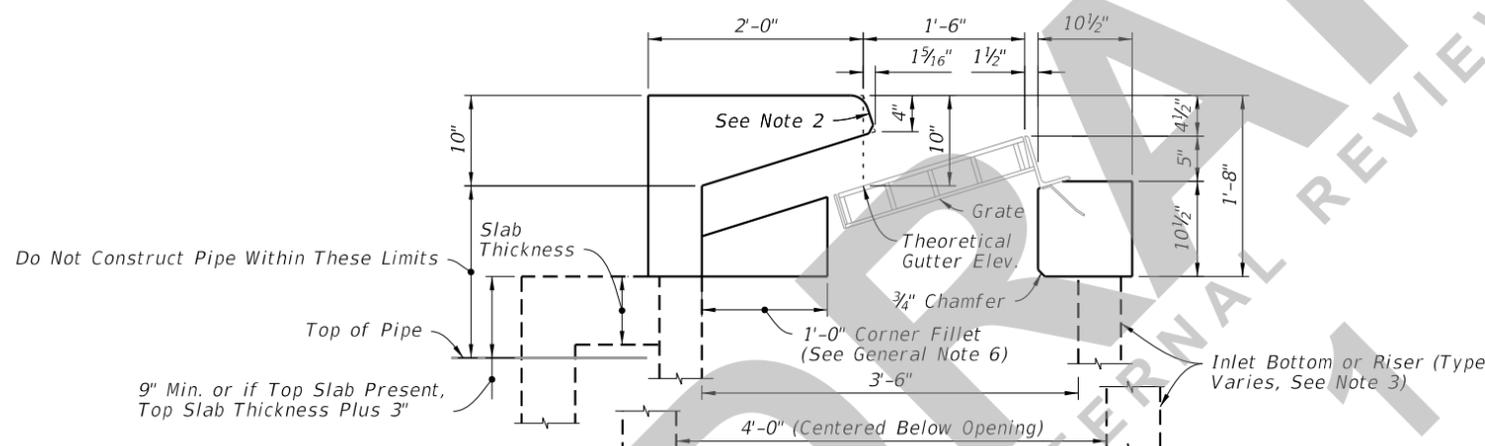
SECTION C-C



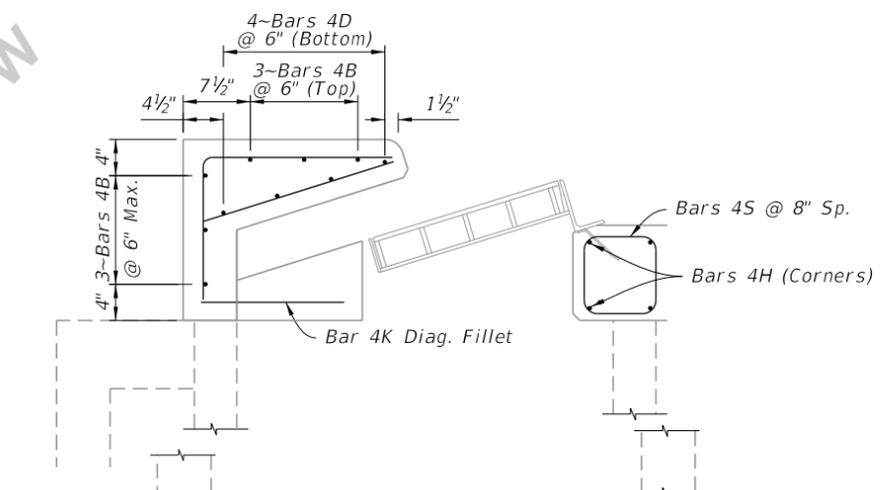
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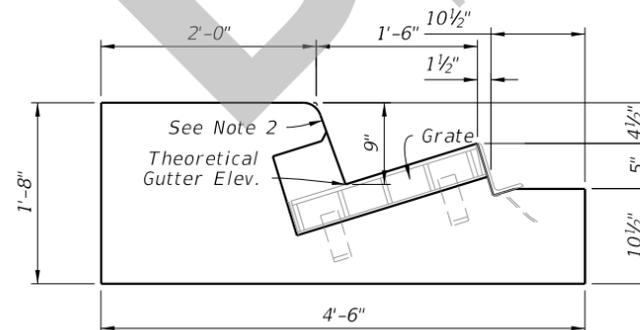
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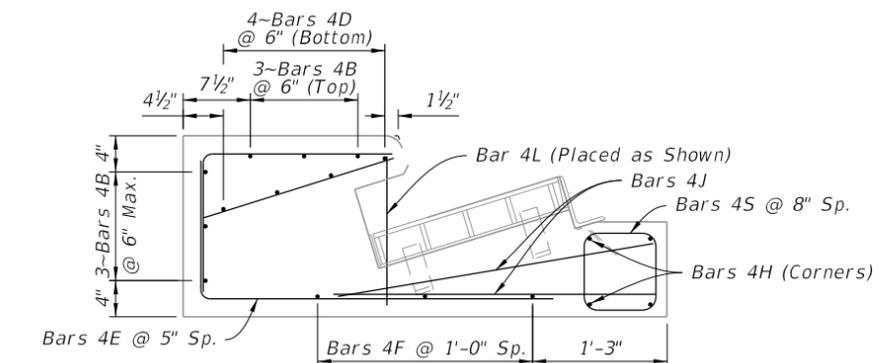
SECTION G-G



SECTION G-G



SECTION H-H



SECTION H-H

NOTES:

1. For location of Sections D-D thru H-H see Sheet 2.
2. Match slope of adjacent curb with 2" top radius and 3/4" bottom chamfer of 1/4" radius.
3. See Plans for bottom and riser type.

DIMENSIONAL DETAILS

REINFORCING DETAILS

PRECAST DIMENSIONAL AND REINFORCING DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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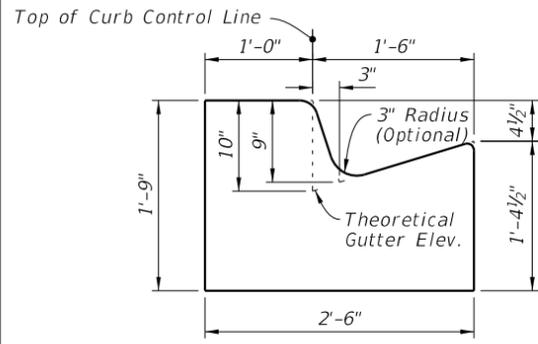


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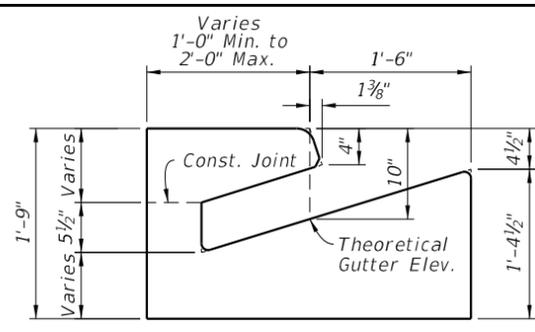
CURB INLET TOP TYPES 5 AND 6

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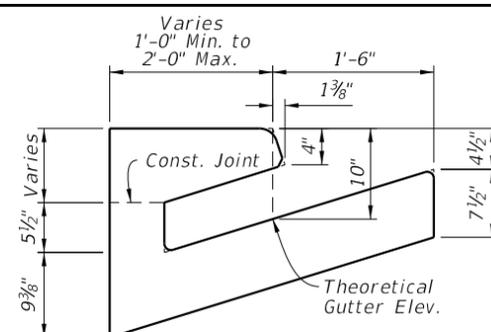
SHEET
4 of 7



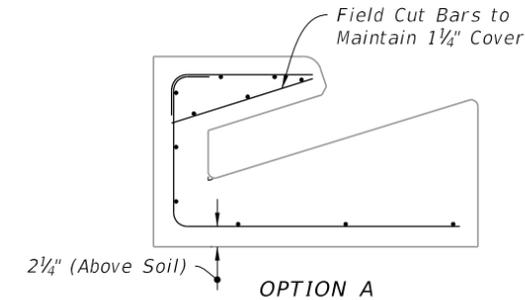
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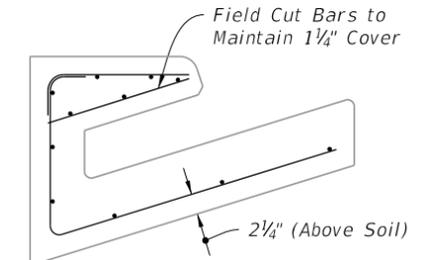
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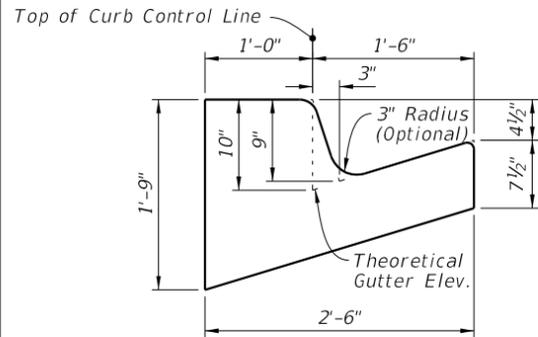
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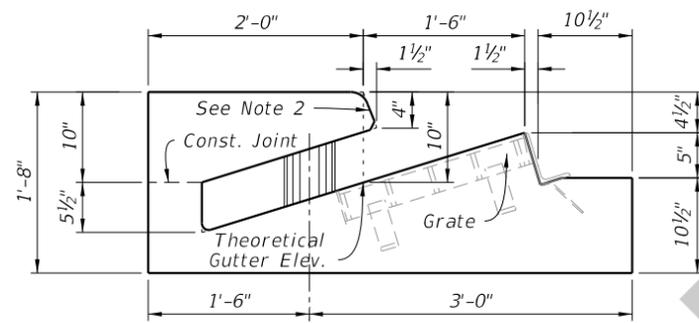
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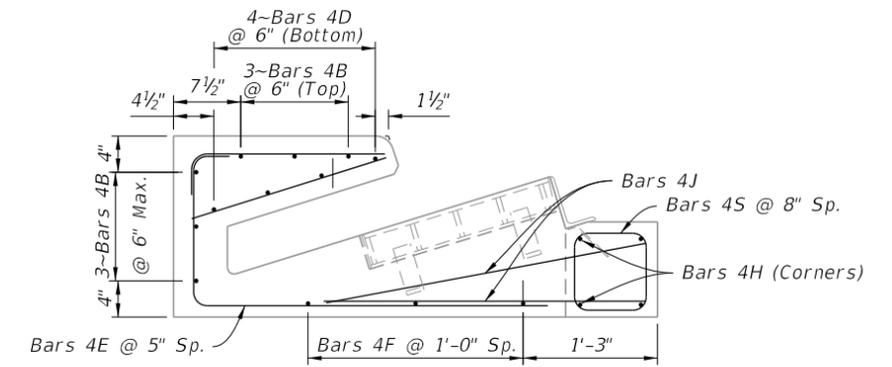
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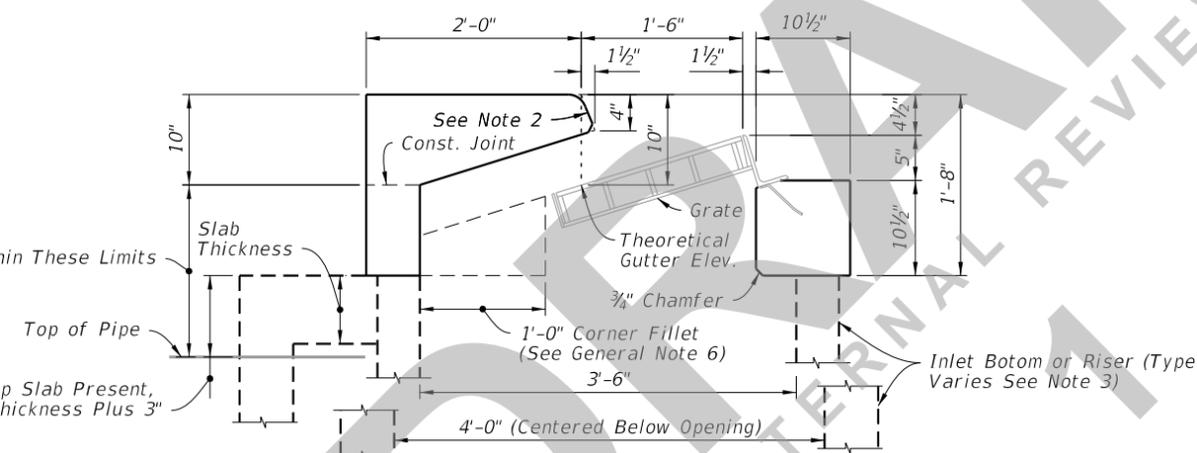
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SECTION D-D



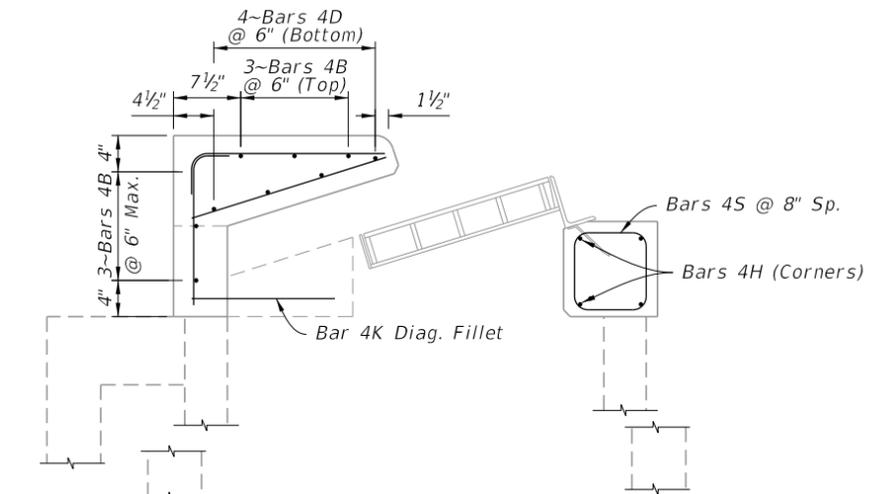
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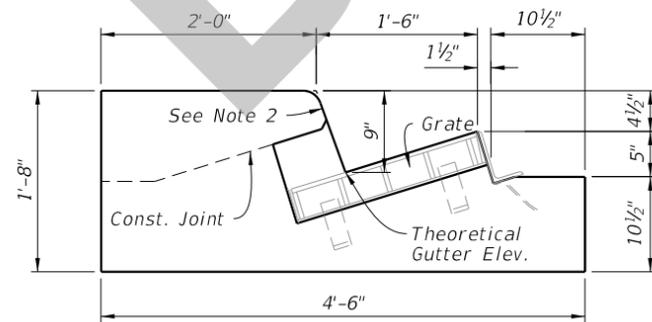
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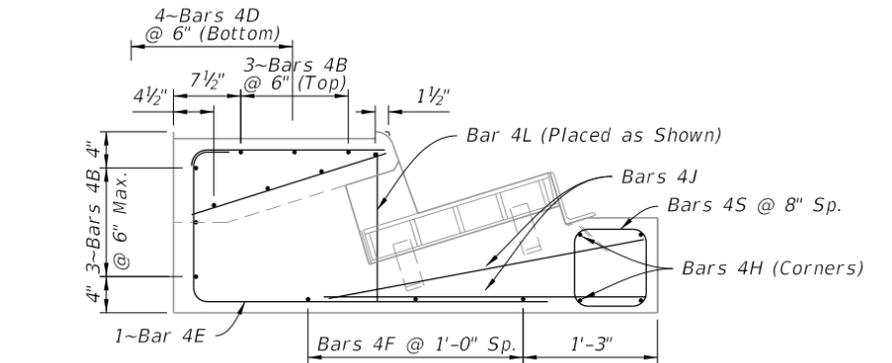
SECTION G-G



SECTION G-G



SECTION H-H



SECTION H-H

DIMENSIONAL DETAILS

REINFORCING DETAILS

CAST-IN-PLACE DIMENSIONAL AND REINFORCING DETAILS

NOTES:

1. For location of Sections D-D thru H-H see Sheet 2.
2. Match slope of adjacent curb with 2" top radius and 3/4" bottom chamfer or 1/4" radius.
3. See Plans for bottom and riser type.

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LAST REVISION
11/01/20

REVISION

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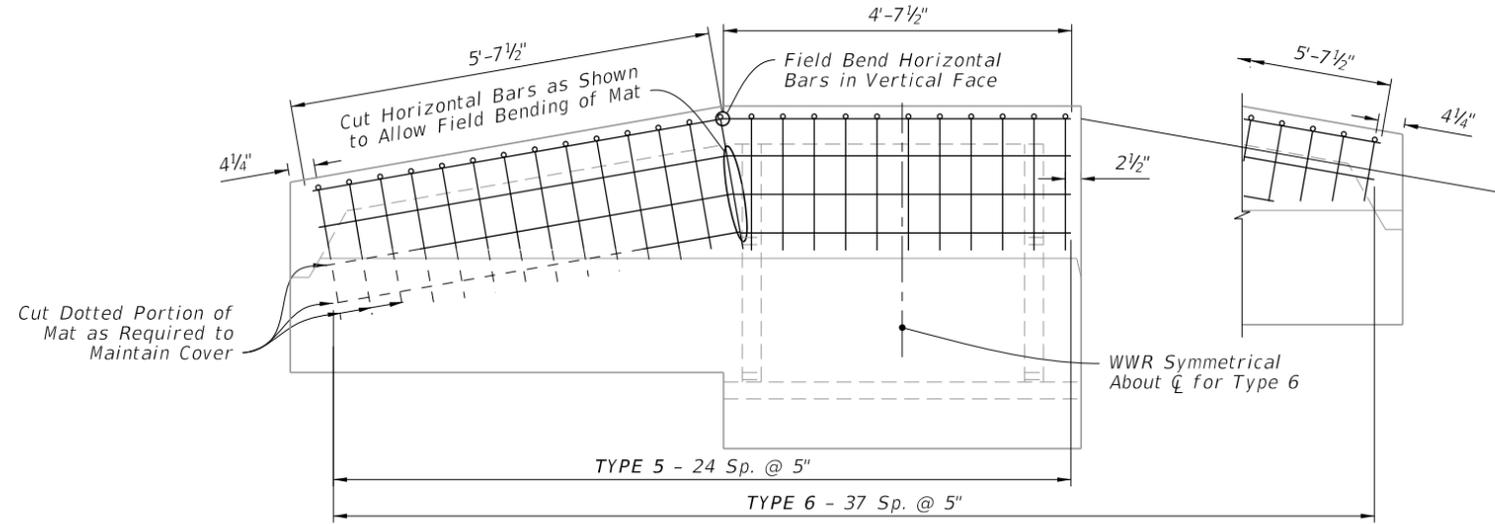


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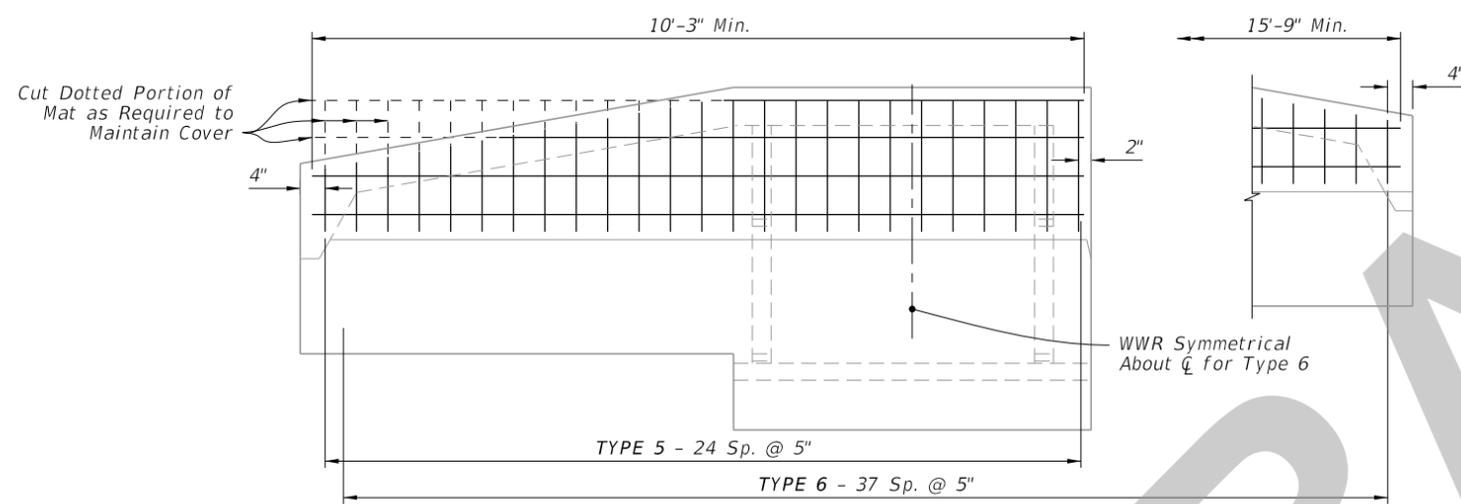
CURB INLET TOP TYPES 5 AND 6

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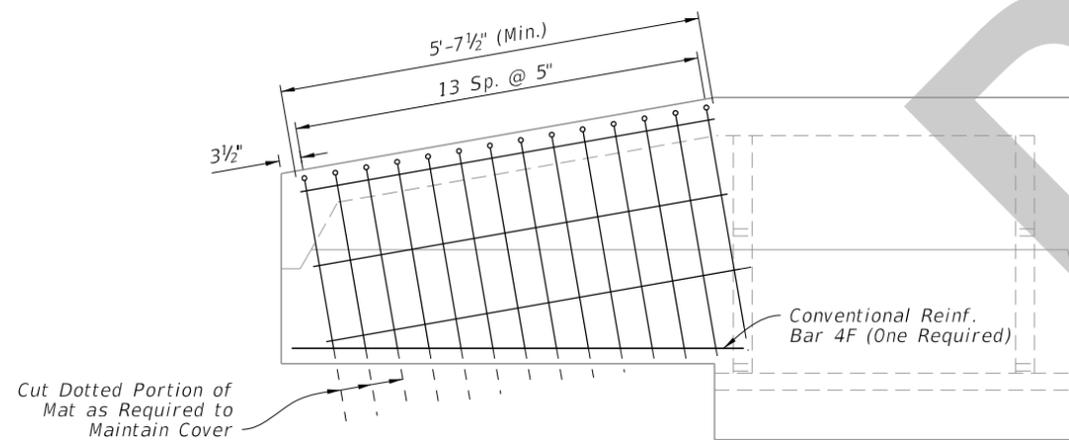
SHEET
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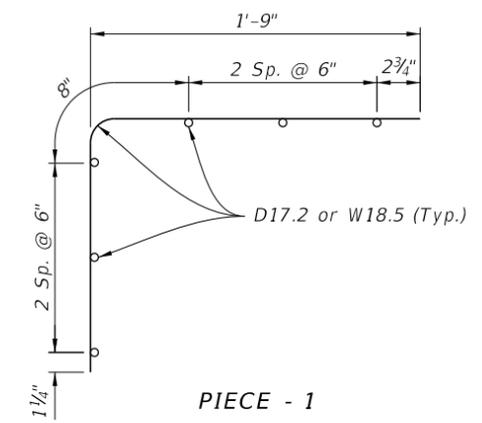
PIECE - 1 PLACEMENT SCHEMATIC



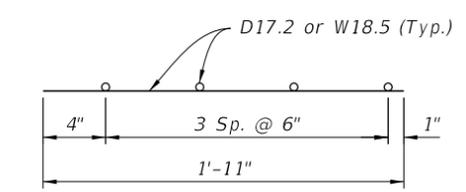
PIECE - 2 PLACEMENT SCHEMATIC



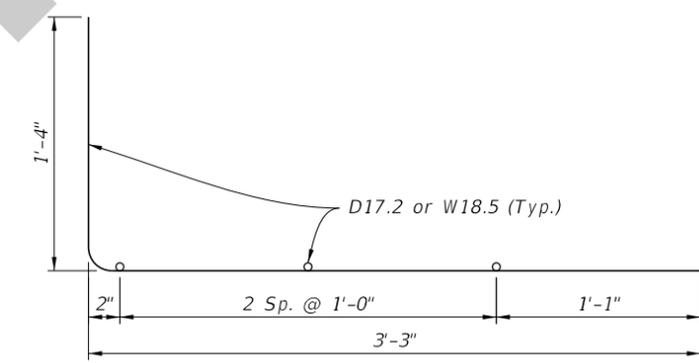
PIECE - 3 PLACEMENT SCHEMATIC



PIECE - 1

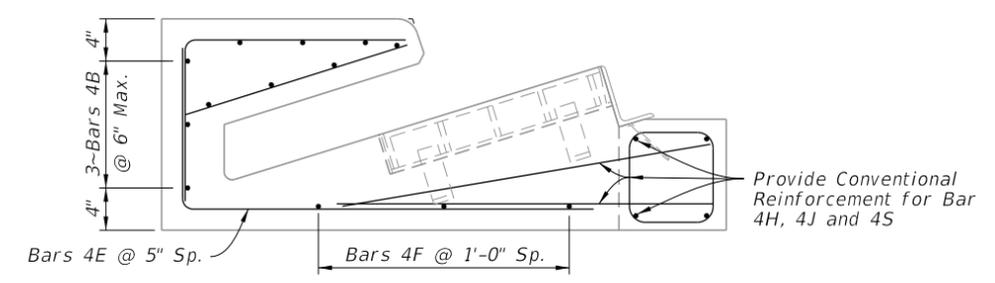


PIECE - 2



PIECE - 3

WELDED WIRE REINFORCING DETAILS



TYPICAL SECTION

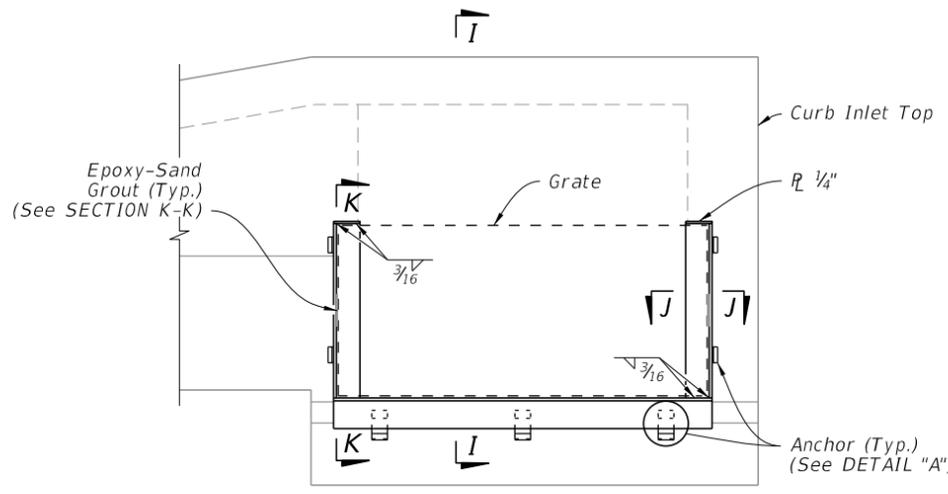
- NOTES:**
- All bar dimensions in the bending diagrams are out to out.
 - Welded Wire Reinforcement consists of Smooth or Deformed wire meeting the requirements of Specification 931.

WWR REINFORCING DETAILS

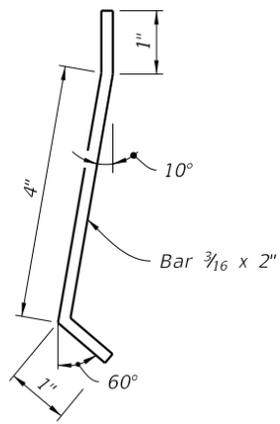
ALTERNATE WELDED WIRE REINFORCING (WWR) DETAILS

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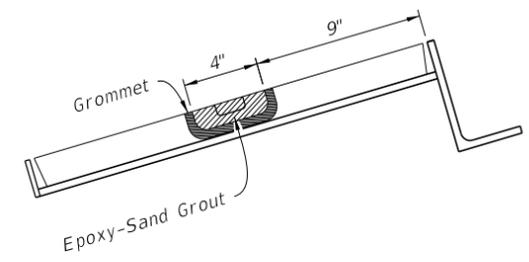
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	CURB INLET TOP TYPES 5 AND 6	INDEX 425-021	SHEET 6 of 7
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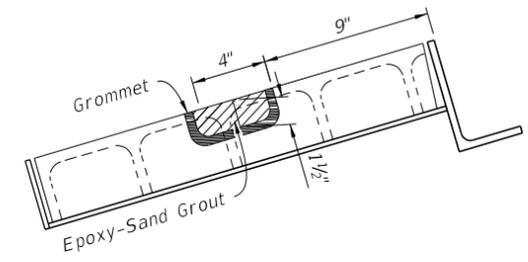
FRAME DETAIL



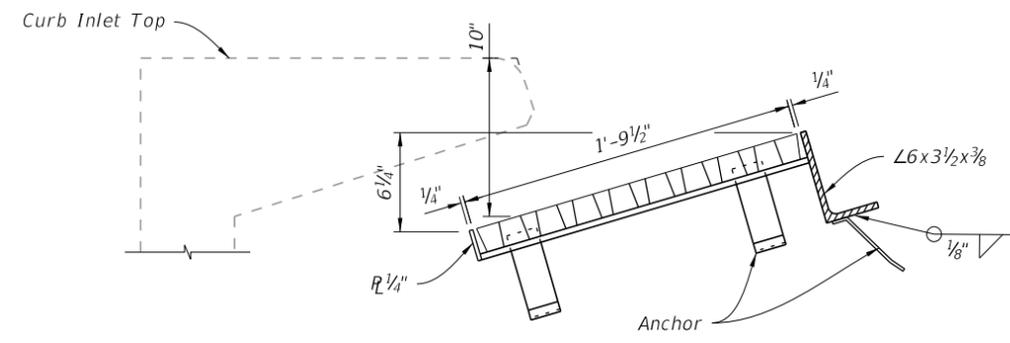
ANCHOR
DETAIL "A"



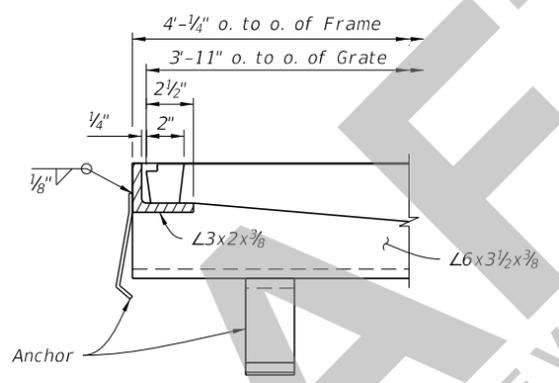
CAST IRON GRATE GROUTING DETAILS



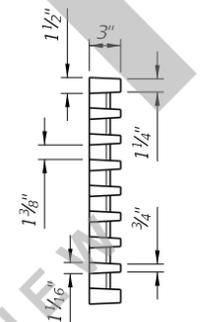
STEEL GRATE GROUTING DETAILS



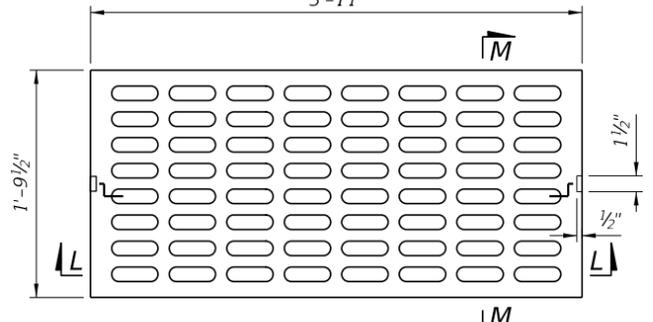
SECTION I-I



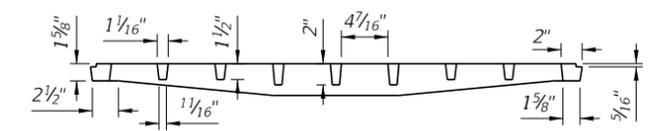
SECTION J-J



SECTION M-M

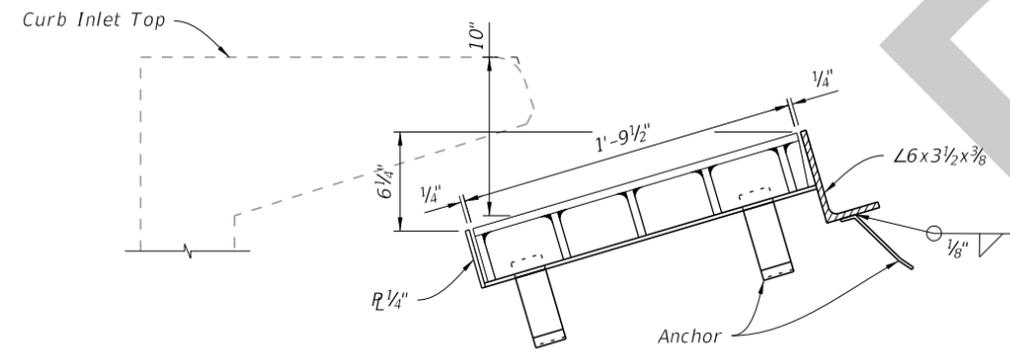


TOP

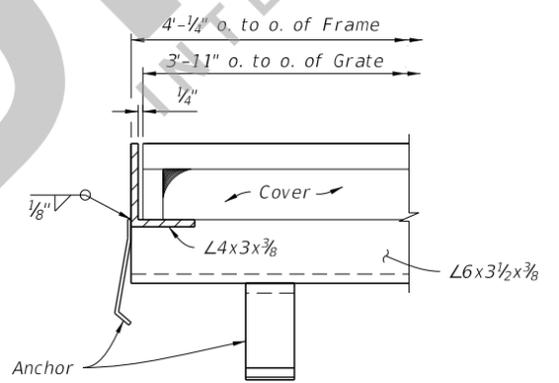


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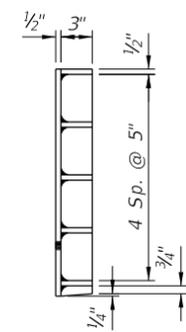
CAST IRON GRATE



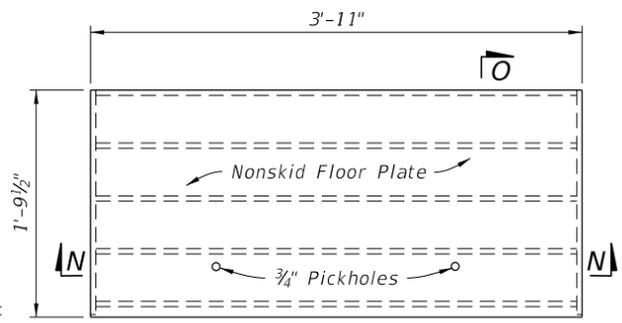
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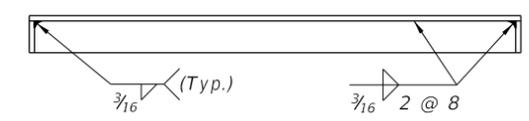
SECTION J-J



SECTION O-O



TOP



SECTION N-N

STEEL GRATE

GRATE, ANCHOR, AND GROUTING DETAILS

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FDOT FY 2021-22
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