

**NOTE:**  
 FRAME AND COVER TO BE EAST  
 JORDAN CATALOG #G1860RG OR  
 EQUIVALENT (WEIGHT 120 LBS.).  
 SEE CITY OF SAVANNAH DETAIL D5

# STANDARD CONSTRUCTION DETAILS



## PLAN OF CURB INLET

PLATE NUMBER:

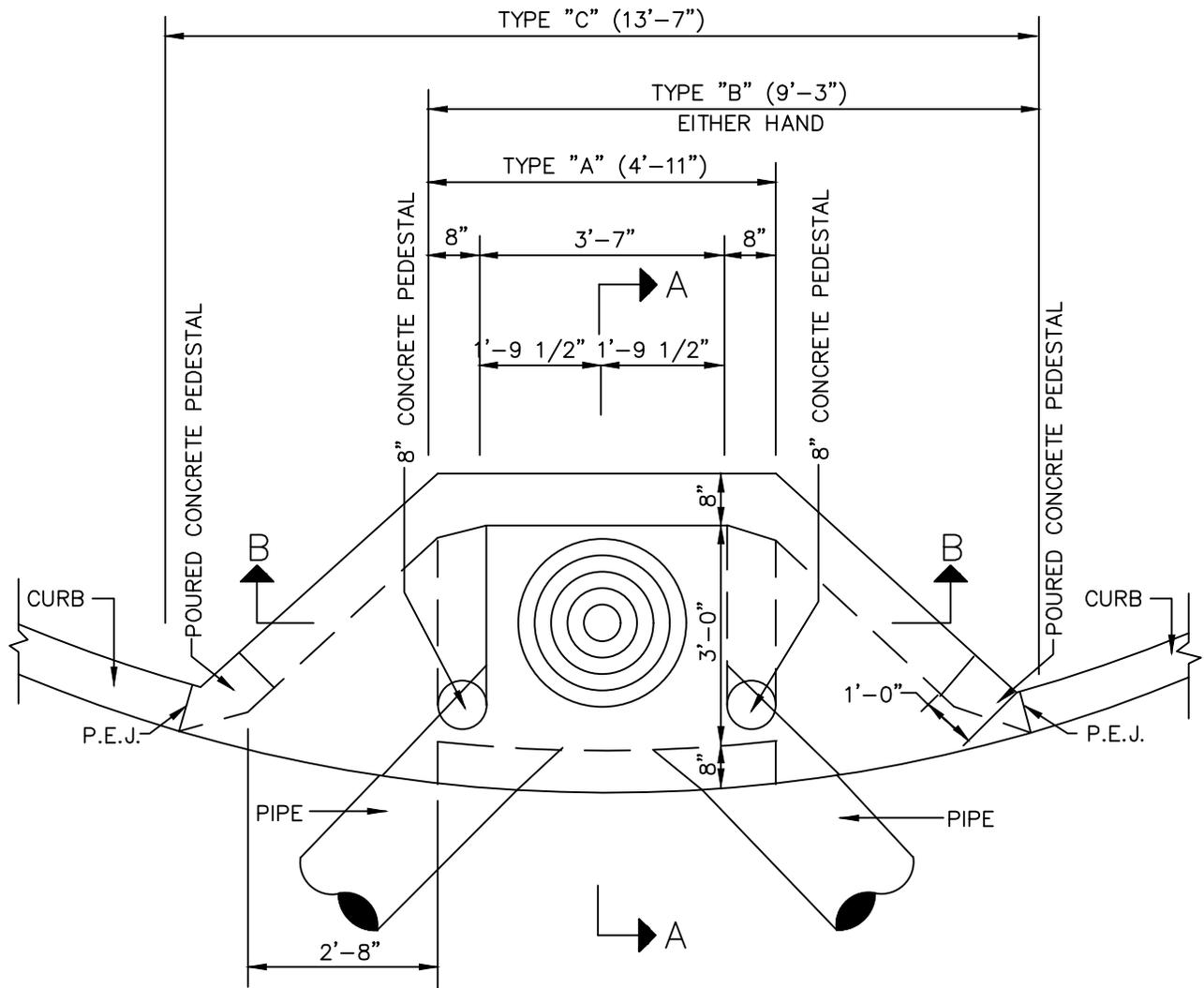
D1

APPROVED:

*John M. [Signature]*  
 CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



NOTE:  
 FRAME AND COVER TO BE EAST  
 JORDAN CATALOG #G1860RG OR  
 EQUIVALENT (WEIGHT 120 LBS.).  
 SEE CITY OF SAVANNAH DETAIL D5

STANDARD CONSTRUCTION  
 DETAILS



PLAN OF CURB INLET ON RADIUS

PLATE NUMBER:

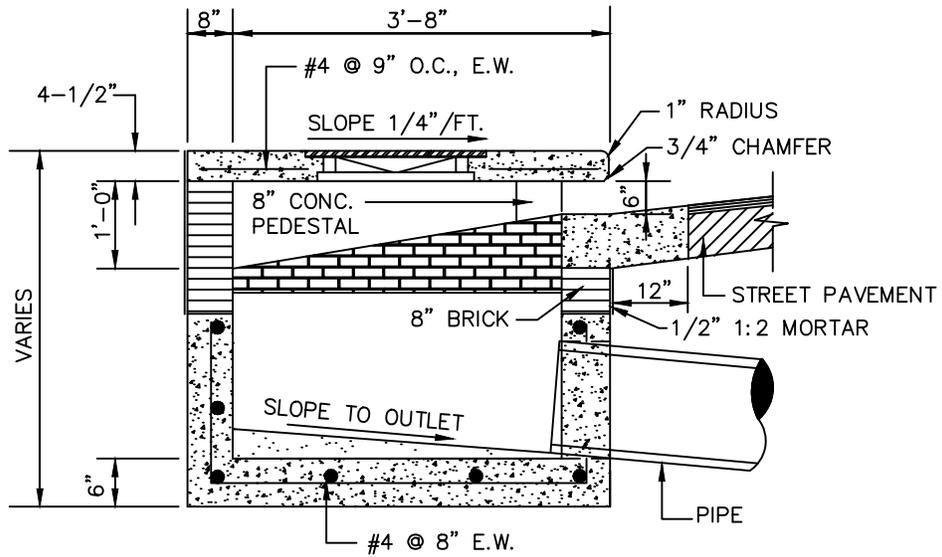
D2

APPROVED:

*John M. [Signature]*  
 CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



- NOTES:
1. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4"
  2. PIPE CONNECTING TO CURB INLET MUST BE SEALED INSIDE AND OUTSIDE OF STRUCTURE WITH BRICK AND MORTAR

STANDARD CONSTRUCTION  
DETAILS



CURB INLET – SECTION A-A

PLATE NUMBER:

APPROVED:

*Quinn M. [Signature]*  
CITY ENGINEER

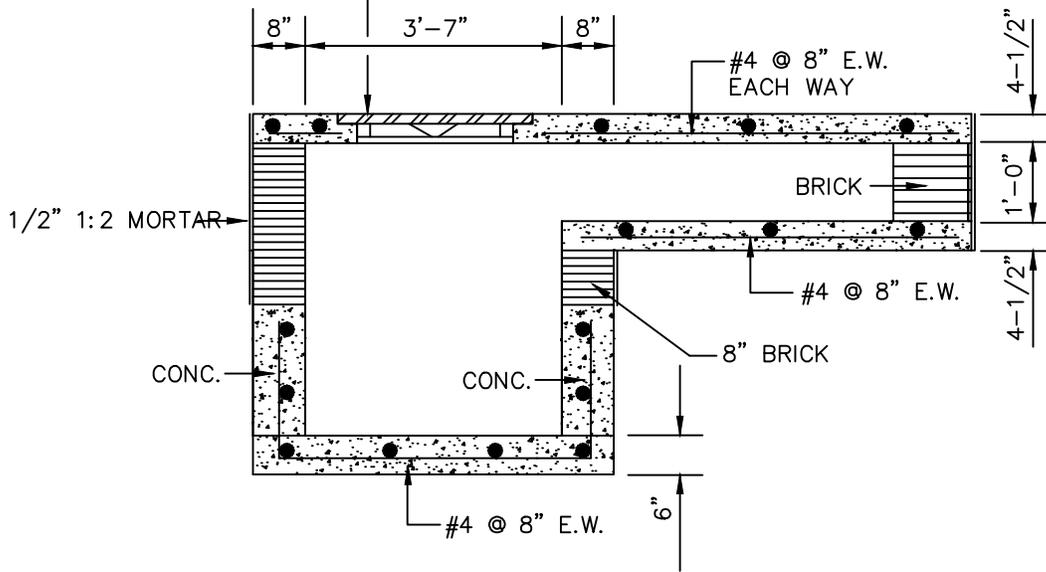
SCALE: N.T.S.

DATED: FEBRUARY 2019

D3

**NOTE:**

C.I. MANHOLE FRAME AND COVER TO BE EAST JORDAN CATALOG #G1860RG OR EQUIVALENT (WEIGHT 120 LBS.). FRAME AND COVER TO BE MACHINE FITTED PRIOR TO LEAVING SHOP.



**NOTES:**

1. MATCH TOP OF PIPE ELEVATIONS WHEN DIFFERENT SIZE PIPES ARE CONSTRUCTED IN CURB INLET
2. TYPE "B" INLET SHOWN

STANDARD CONSTRUCTION  
DETAILS



CURB INLET SECTION B-B

PLATE NUMBER:

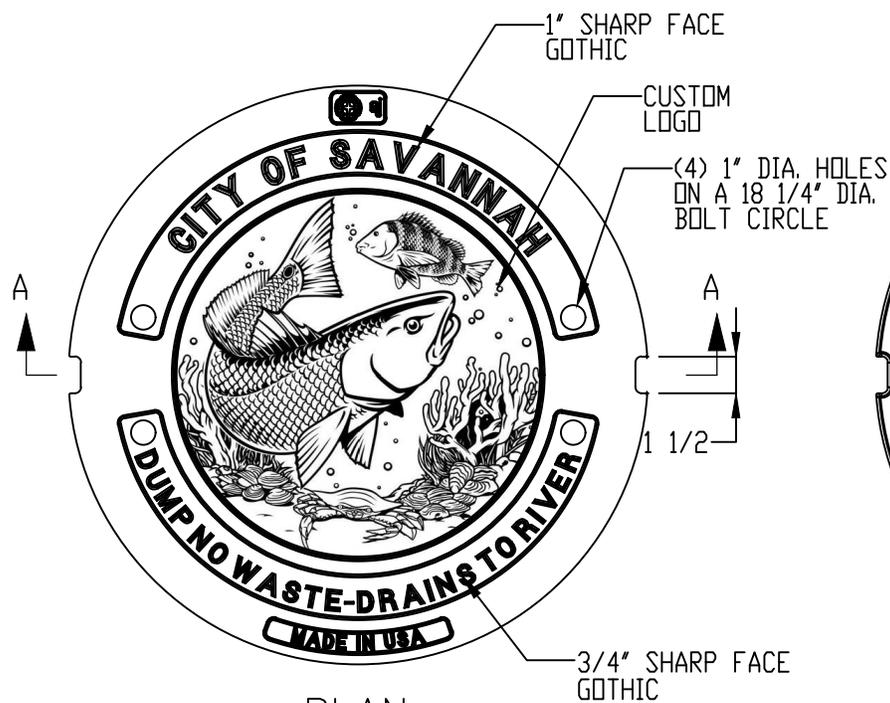
APPROVED:

*John M. [Signature]*  
CITY ENGINEER

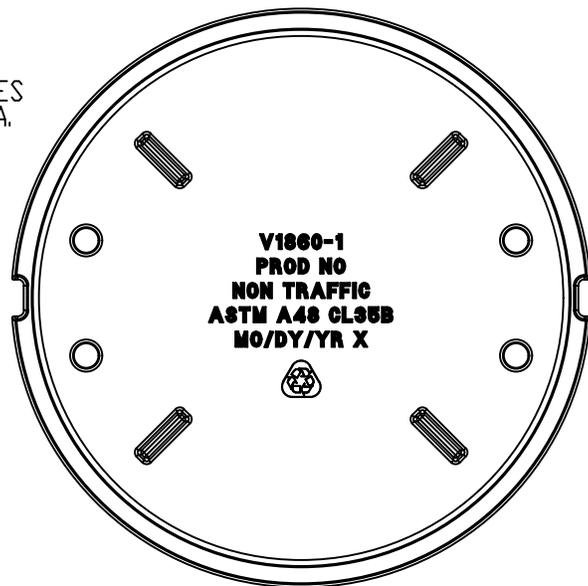
SCALE: N.T.S.

DATED: FEBRUARY 2019

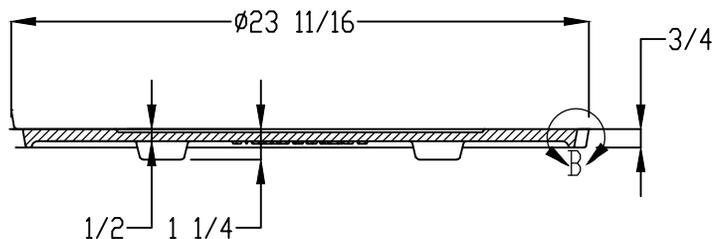
D4



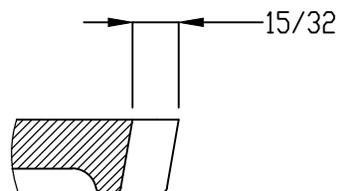
PLAN



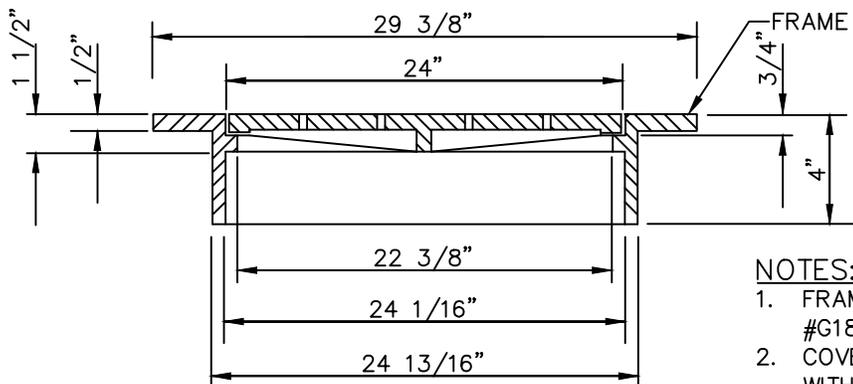
BOTTOM VIEW



COVER SECTION A-A



DETAIL B  
SCALE 1 : 2



FRAME SECTION

NOTES:

1. FRAME AND COVER TO BE EAST JORDAN CATALOG #G1860RG OR EQUIVALENT (WEIGHT 120 LBS.)
2. COVER MUST PROVIDE "CITY OF SAVANNAH" LOGO WITH FISH IMAGE (SEE ATTACHED FOR DETAILS), "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP

STANDARD CONSTRUCTION  
DETAILS



INLET FRAME AND COVER

PLATE NUMBER:

D5

APPROVED:

*Quinn M. [Signature]*  
CITY ENGINEER

SCALE: N.T.S.

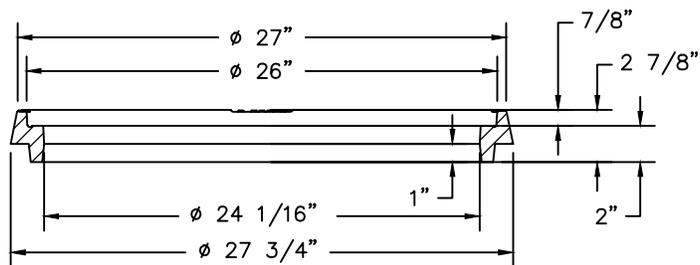
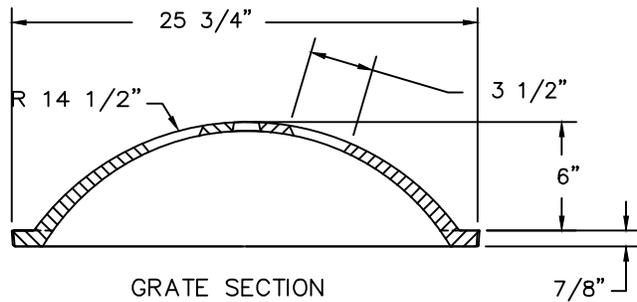
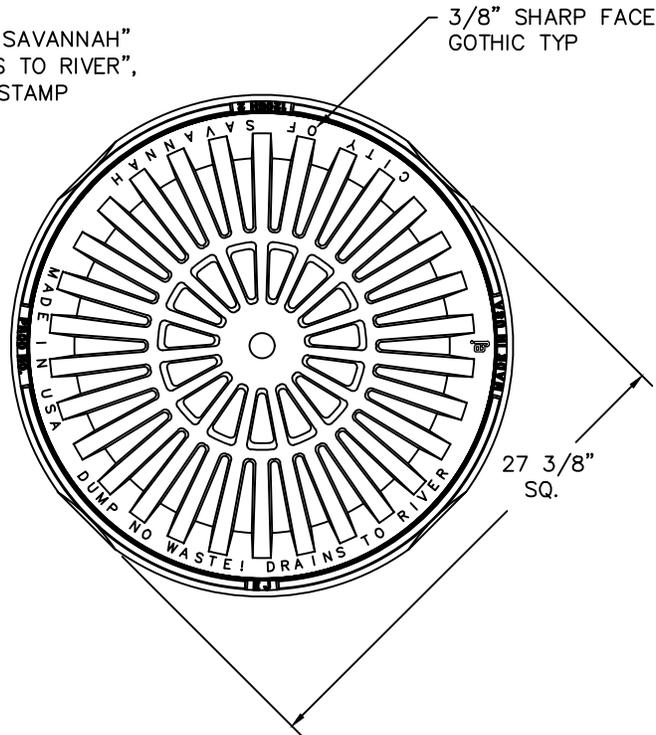
DATED: FEBRUARY 2019





**NOTES:**

1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #1205H/02 OR EQUIVALENT (WEIGHT 151 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



STANDARD CONSTRUCTION  
DETAILS



YARD INLET GRATE AND FRAME

PLATE NUMBER:

D7A

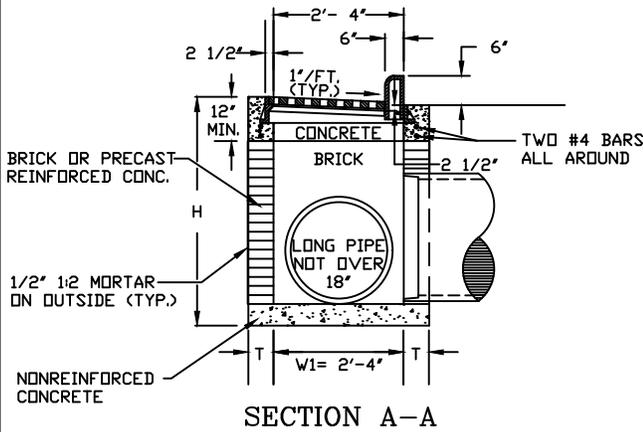
APPROVED:

*Quinn M. [Signature]*  
CITY ENGINEER

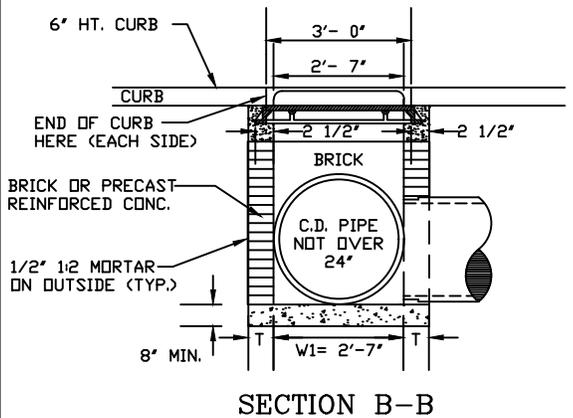
SCALE: N.T.S.

DATED: FEBRUARY 2019

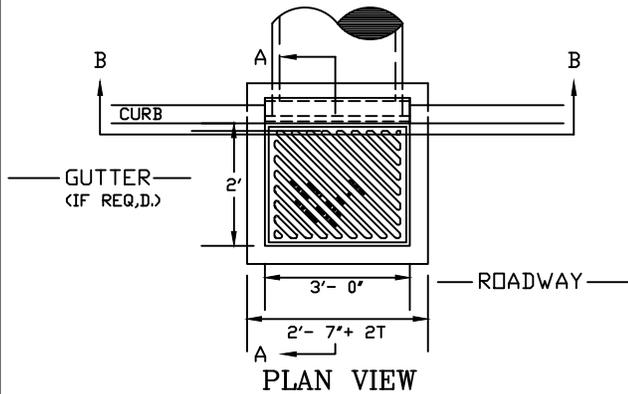
DROP INLET TYPE V-1



SECTION A-A



SECTION B-B

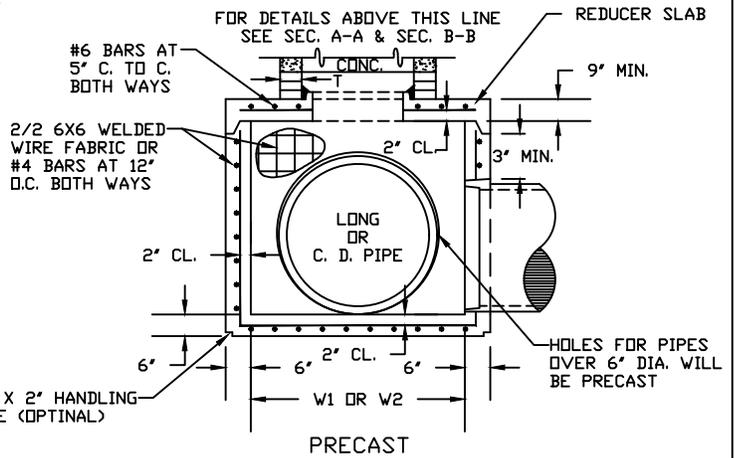


PLAN VIEW

NOTE:  
CURB INLET FRAME, GRATE, AND CURB BOX SHALL BE EAST JORDAN #7510Z1-7030T6-7510M1 OR EQUAL WITH DIAGONAL BARS. WEIGHT = 566 LBS. (SEE CITY OF SAVANNAH DRAWING DBA FOR FRAME, GRATE AND CURB BOX DETAILS)

DROP INLET TYPE V-1 OR V-2:

REDUCER SLABS ARE FOR USE WITH LARGER PIPES. IN GENERAL THIS WILL BE CROSS DRAIN PIPES OVER 24", LONGITUDINAL PIPES OVER 18" (TYPE V-1) AND LONGITUDINAL PIPES OVER 15" (TYPE V-2).



W1 OR W2 DIMENSIONS WITH REDUCER SLAB

⊕ W1 X W2 NOT LESS THAN 2'- 4" X 2'- 7" FOR TYPE V-1 AND NOT LESS THAN 1'- 8" X 2'- 7" FOR TYPE V-2

PIPE SIZE	MINIMUM W1, W2, & H DIMENSIONS	
	W1(MIN.) OR W2(MIN.)	H (MIN.)
15"	⊕ 1'- 8"	⊕ 1'- 8" 3'- 10"
18"	⊕ 2'- 0"	⊕ 2'- 0" 4'- 2"
24"	2'- 7"	2'- 7" 4'- 9"
30"	3'- 4"	3'- 6" 5'- 10"
36"	3'- 10"	4'- 0" 6'- 5"
42"	4'- 5"	4'- 6" 7'- 0"
48"	5'- 0"	5'- 0" 7'- 10"
54"	5'- 7"	5'- 6" 8'- 5"
60"	6'- 2"	6'- 0" 9'- 0"

BRICK WALL THICKNESS	
H	T (MIN.)
TO 10'	8"
10' TO 20'	12"
20' TO 30'	16"

NOTE:  
THE MINIMUM H DIMENSIONS SHOWN ARE BASED ON TYPICAL OUTSIDE DIAMETERS OF PIPES AND MAY BE MODIFIED WHERE THE CITY ENGINEER OR DESIGNER DETERMINES THAT CONDITIONS PERMIT. IT IS NOT NECESSARY THAT THE BOX TYPE BASE BE SQUARE. W1 AND W2 DIMENSIONS WILL VARY ACCORDING TO PIPE SIZE.

STANDARD CONSTRUCTION DETAILS



DROP INLET TYPE V-1 OR V-2

PLATE NUMBER:

APPROVED:

*John M. Lester*  
CITY ENGINEER

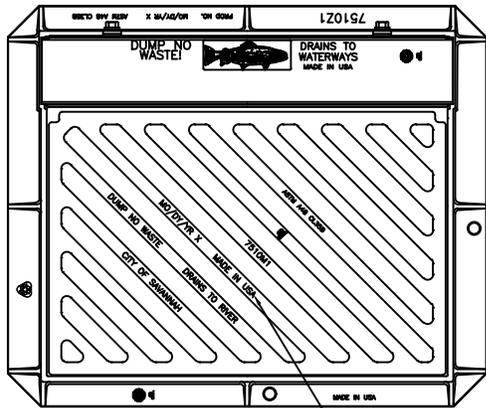
SCALE: N.T.S.

DATE: FEBRUARY 2019

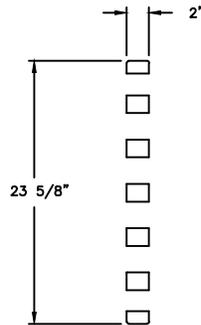
D8

**NOTES:**

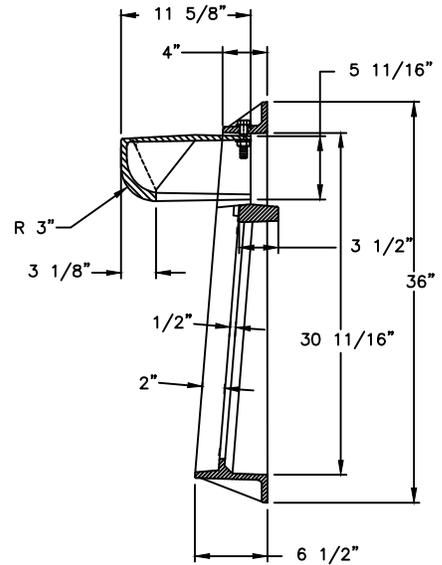
1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #7501Z1-7030T6-7510M1 OR EQUIVALENT WITH DIAGONAL BARS (WEIGHT 566 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



PLAN VIEW  $\frac{3}{8}$ " SHARP FACE  
GOTHIC (TYP.)

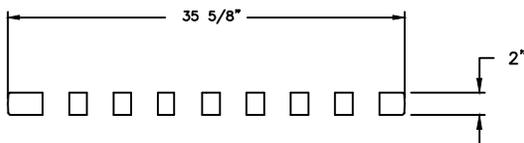


GRATE SECTION

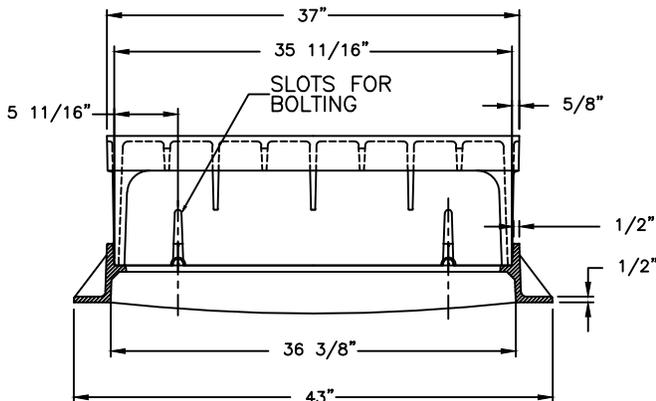


HOOD & FRAME SECTION

CURB ADJUSTMENT  
3 1/4" TO 9"



GRATE SECTION



HOOD & FRAME SECTION

NOTE: COMPONENT PARTS ARE SHIPPED LOOSE. NOT ASSEMBLED.

# STANDARD CONSTRUCTION DETAILS



## DROP INLET FRAME, GRATE AND CURB

PLATE NUMBER:

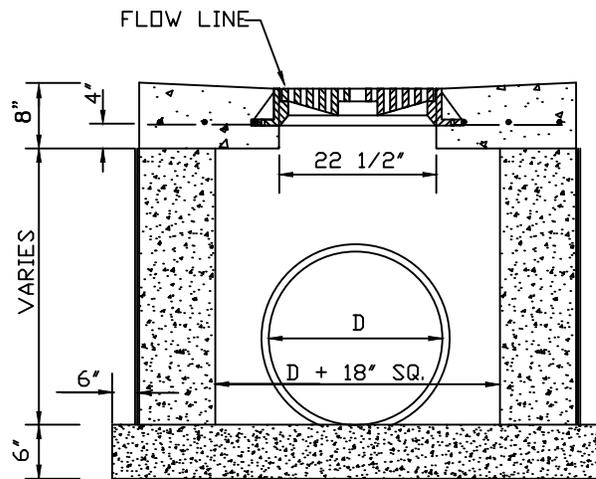
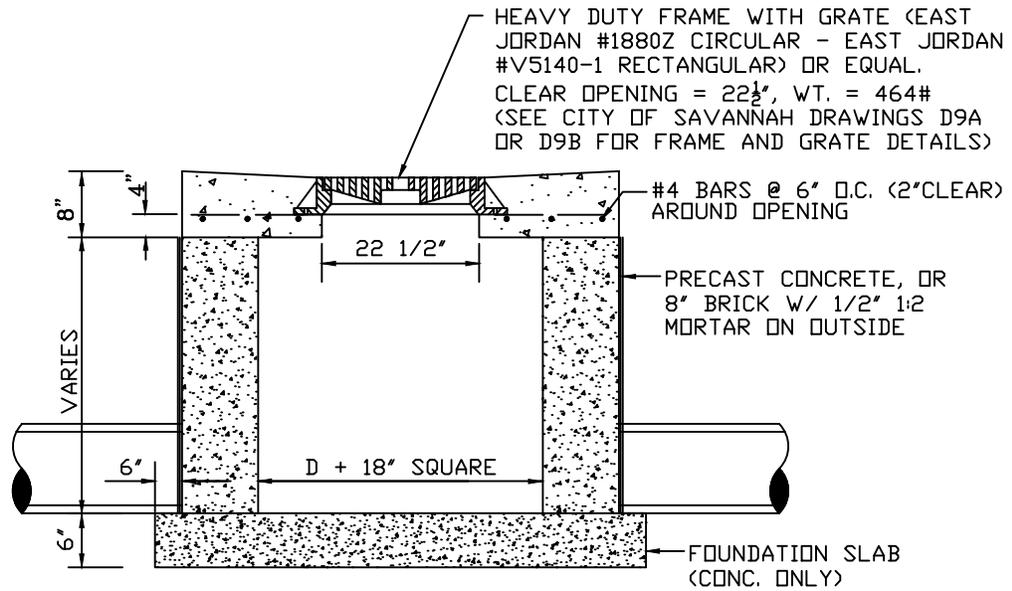
D8A

APPROVED:

*John M. Lester*  
CITY ENGINEER

SCALE: N.T.S.

DATE: FEBRUARY 2019



STANDARD CONSTRUCTION  
 DETAILS



GRATE INLET DETAIL

PLATE NUMBER:

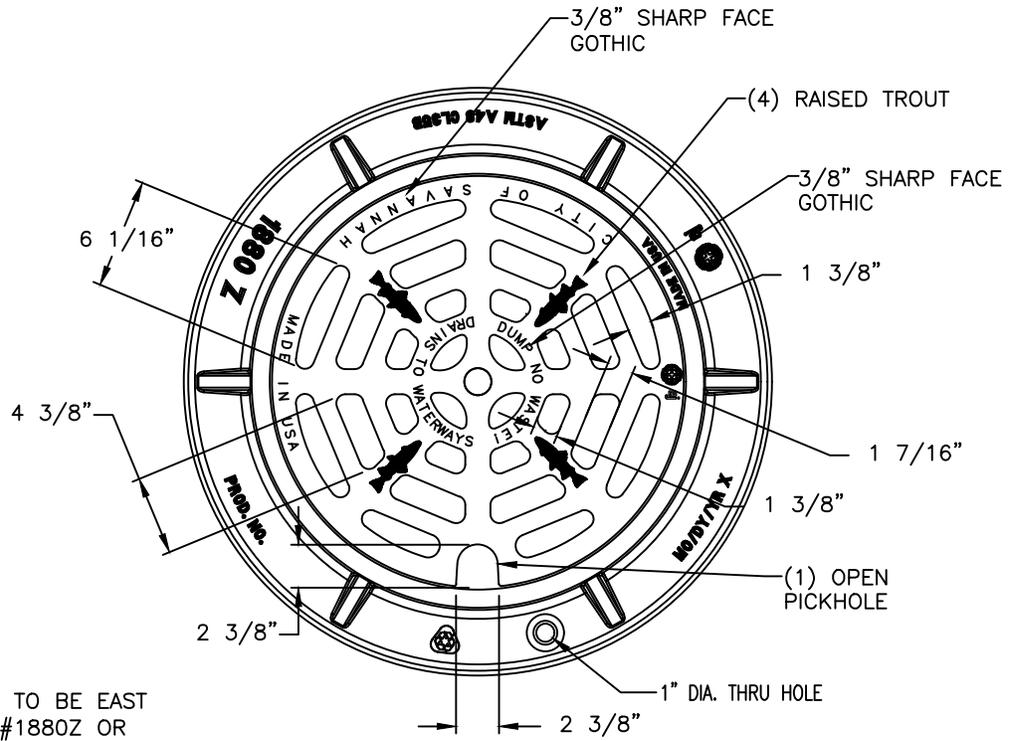
D9

APPROVED:

*Quinn M. Lester*  
 CITY ENGINEER

SCALE: N.T.S.

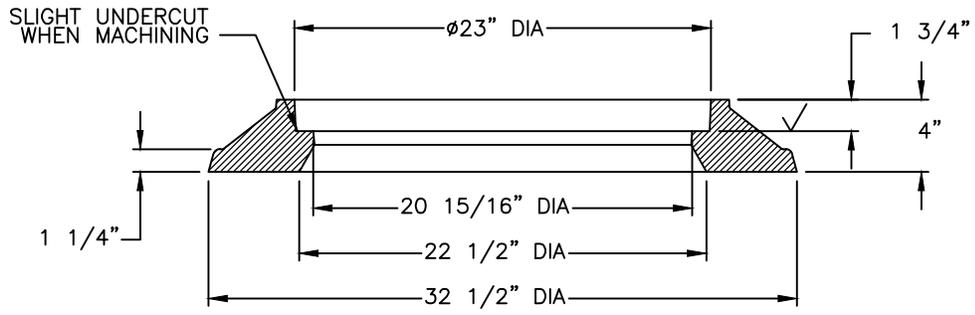
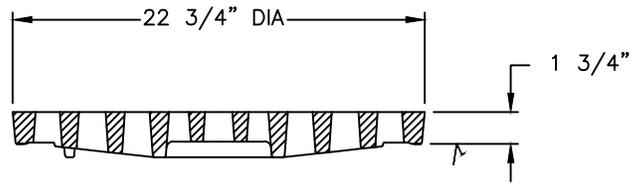
DATED: FEBRUARY 2019



PLAN VIEW

**NOTES:**

1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #1880Z OR EQUIVALENT (WEIGHT 464 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



SECTION

STANDARD CONSTRUCTION  
DETAILS



CIRCULAR GRATE INLET DETAIL

PLATE NUMBER:

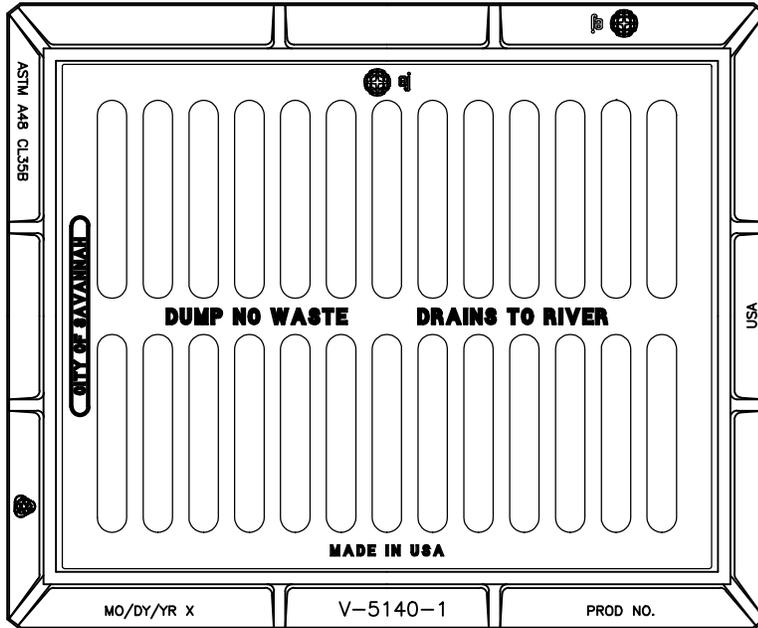
D9A

APPROVED:

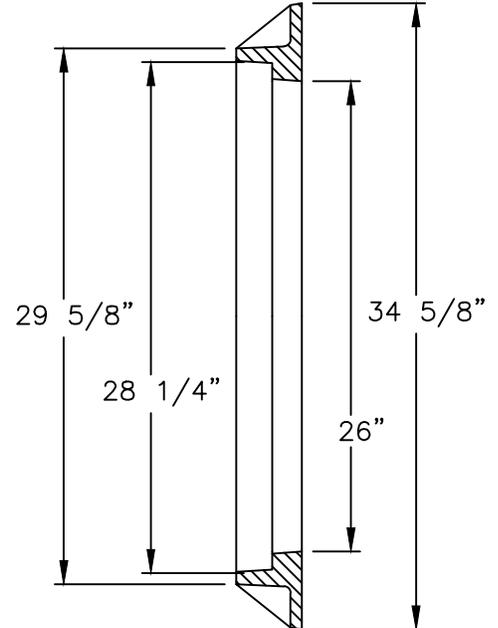
*John M. Lester*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



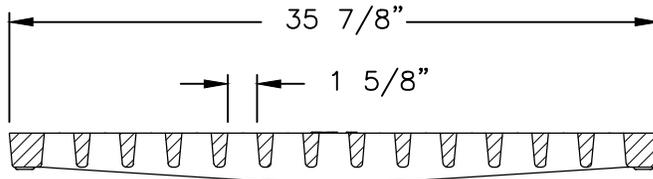
PLAN VIEW



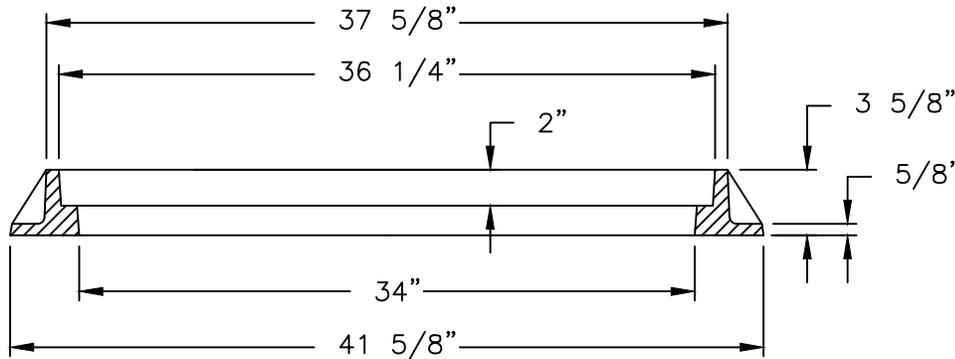
FRAME SECTION

NOTES:

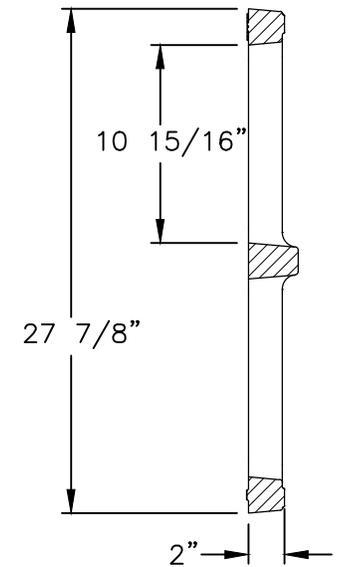
1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #V5140-1 OR EQUIVALENT (WEIGHT 464 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



GRATE SECTION



FRAME SECTION



GRATE SECTION

STANDARD CONSTRUCTION  
DETAILS



RECTANGULAR GRATE INLET DETAIL

PLATE NUMBER:

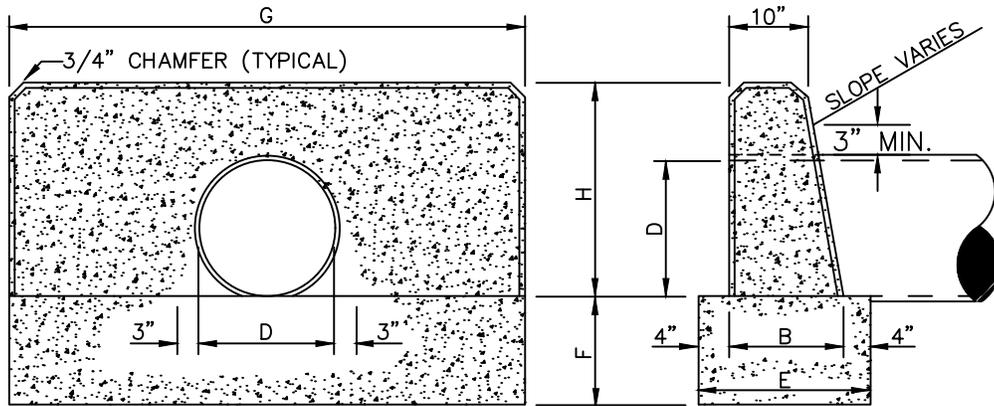
D9B

APPROVED:

*John M. Lester*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



FRONT ELEVATION

END ELEVATION

NOTE:

WHEN DITCH PAVING IS SPECIFIED RECESS SURFACE OF FOOTING TO ACCOMMODATE THICKNESS OF DITCH PAVING.

DIMENSIONS							QUANTITIES ONE ENDWALL				CONC IN WALL & FT'G FOR EACH ADD'L LINE
OPENING		WALL			FOOTING		CLASS "B" CONCRETE				
D	AREA SQ FT	G *	H	B	E	F	CUBIC FT		TOTAL		
							WALL	FOOT	CU FT	CU YD	
12"	0.8	4'-0"	2'-0"	1'-2"	1'-10"	1'-0"	7.2	7.3	14.5	0.54	0.25
15"	1.2	5'-0"	2'-3"	1'-2"	1'-10"	1'-2"	9.9	10.7	20.6	0.76	0.32
18"	1.8	6'-0"	2'-6"	1'-3"	1'-11"	1'-3"	13.6	14.4	28.0	1.04	0.38
24"	3.1	8'-0"	3'-0"	1'-4"	2'-0"	1'-4"	22.3	21.3	43.6	1.62	0.52
30"	4.9	10'-0"	3'-6"	1'-6"	2'-2"	1'-6"	34.7	32.5	67.2	2.49	0.73
36"	7.1	12'-0"	4'-0"	1'-8"	2'-4"	1'-8"	50.5	46.7	97.2	3.60	0.97
42"	9.6	14'-0"	4'-6"	1'-10"	2'-6"	2'-0"	70.3	70.0	140.3	5.20	1.33
48"	12.6	16'-0"	5'-0"	2'-1"	2'-9"	2'-0"	96.9	88.0	184.9	6.85	1.64
54"	16.0	18'-0"	5'-6"	2'-4"	3'-0"	2'-0"	129.4	108.0	237.4	8.79	1.96
60"	19.6	20'-0"	6'-0"	2'-6"	3'-2"	2'-0"	164.6	126.7	291.3	10.79	2.23

NOTE:

\* FOR EACH ADDITIONAL PIPE LINE, 12" TO 30", ADD 1'-6" + I.D., 30" AND ABOVE ADD 2'-0" + I.D.

STANDARD CONSTRUCTION  
DETAILS



CONCRETE HEADWALL STRAIGHT TYPE

PLATE NUMBER:

APPROVED:

*John M. Lester*  
CITY ENGINEER

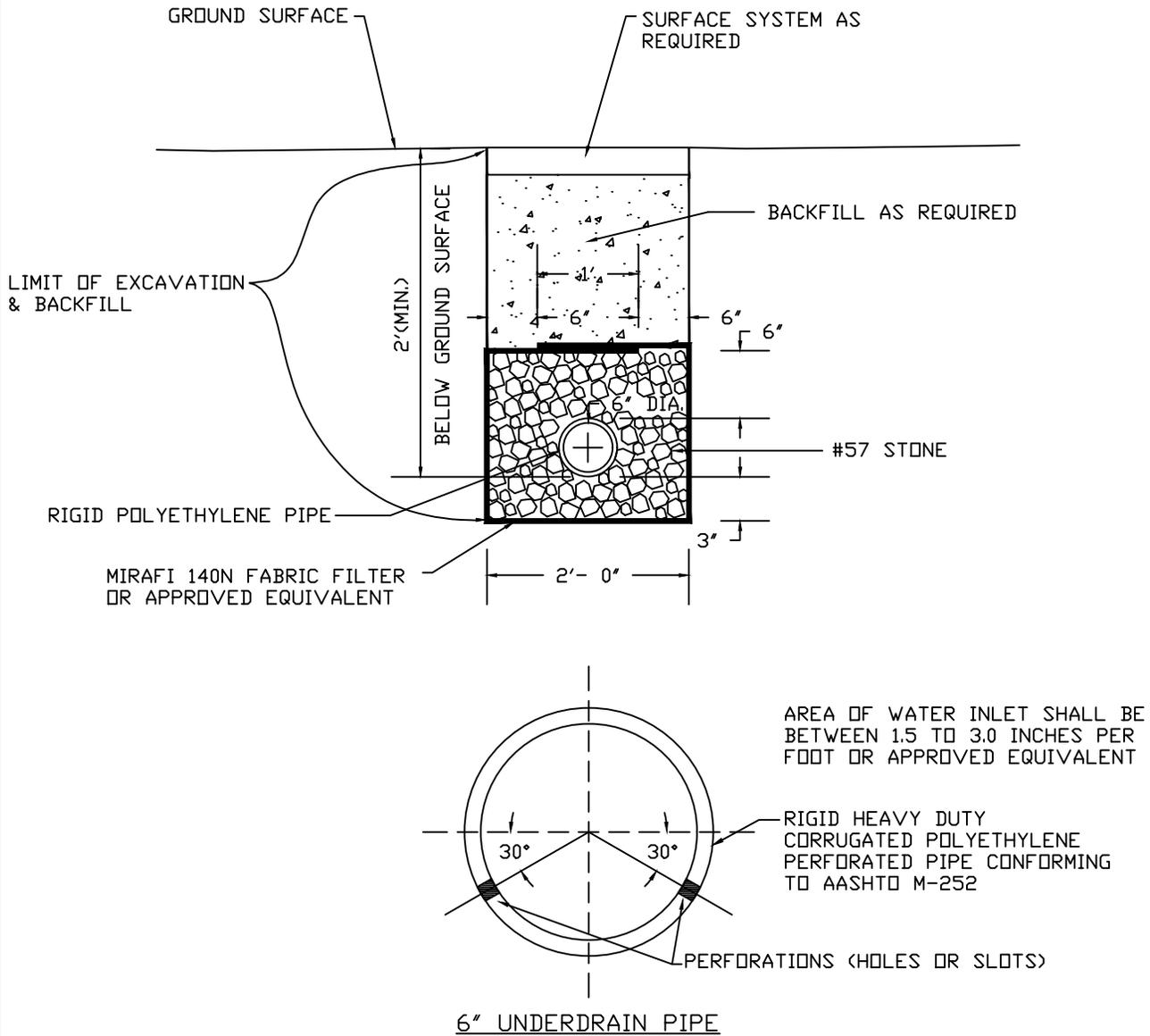
SCALE:

N.T.S.

DATED:

FEBRUARY 2019

D10



STANDARD CONSTRUCTION  
DETAILS



6" UNDERDRAIN PIPE

PLATE NUMBER:

D11

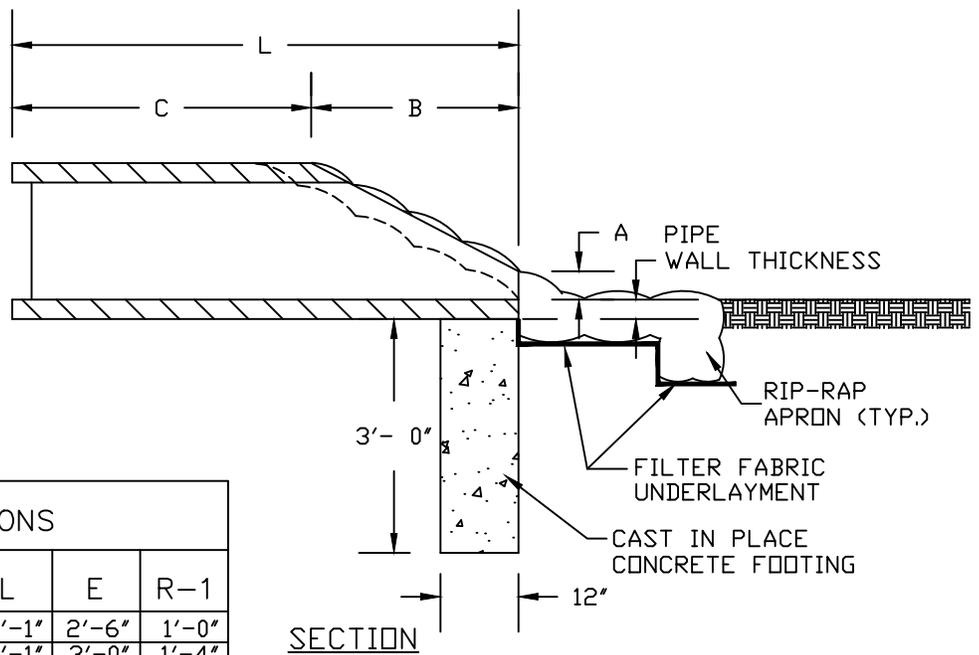
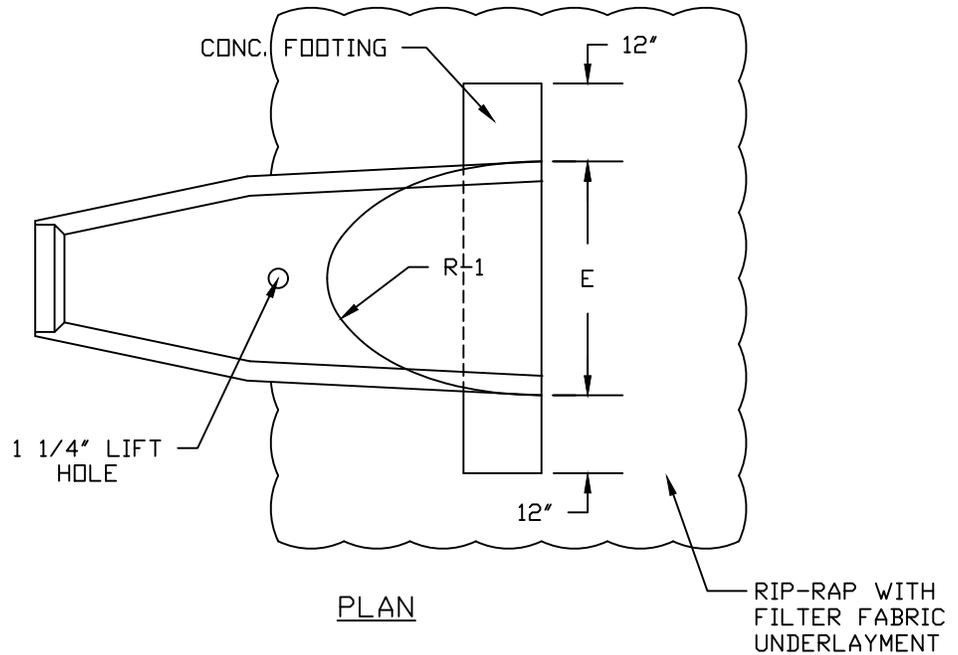
APPROVED:

*John M. [Signature]*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019

NOTE:  
 REFER TO GSWCC "MANUAL FOR EROSION AND  
 SEDIMENT CONTROL IN GEORGIA", LATEST  
 EDITION, STORM DRAIN OUTLET PROTECTION  
 FOR REQUIRED RIP-RAP APRON DIMENSIONS



FLARE DIMENSIONS						
PIPE DIA.	A	B	C	L	E	R-1
15"	6"	2'-3"	3'-10"	6'-1"	2'-6"	1'-0"
18"	9"	2'-3"	3'-10"	6'-1"	3'-0"	1'-4"
24"	10"	3'-8"	2'-6"	6'-2"	4'-0"	1'-5"
30"	12"	4'-6"	1'-8"	6'-2"	5'-0"	1'-6"
36"	16"	5'-3"	2'-11"	8'-2"	6'-0"	2'-0"
42"	21"	5'-3"	2'-11"	8'-2"	6'-6"	2'-4"

REINFORCEMENT CONFORMS TO ASTM A1064

# STANDARD CONSTRUCTION DETAILS



## FLARED END SECTION

PLATE NUMBER:

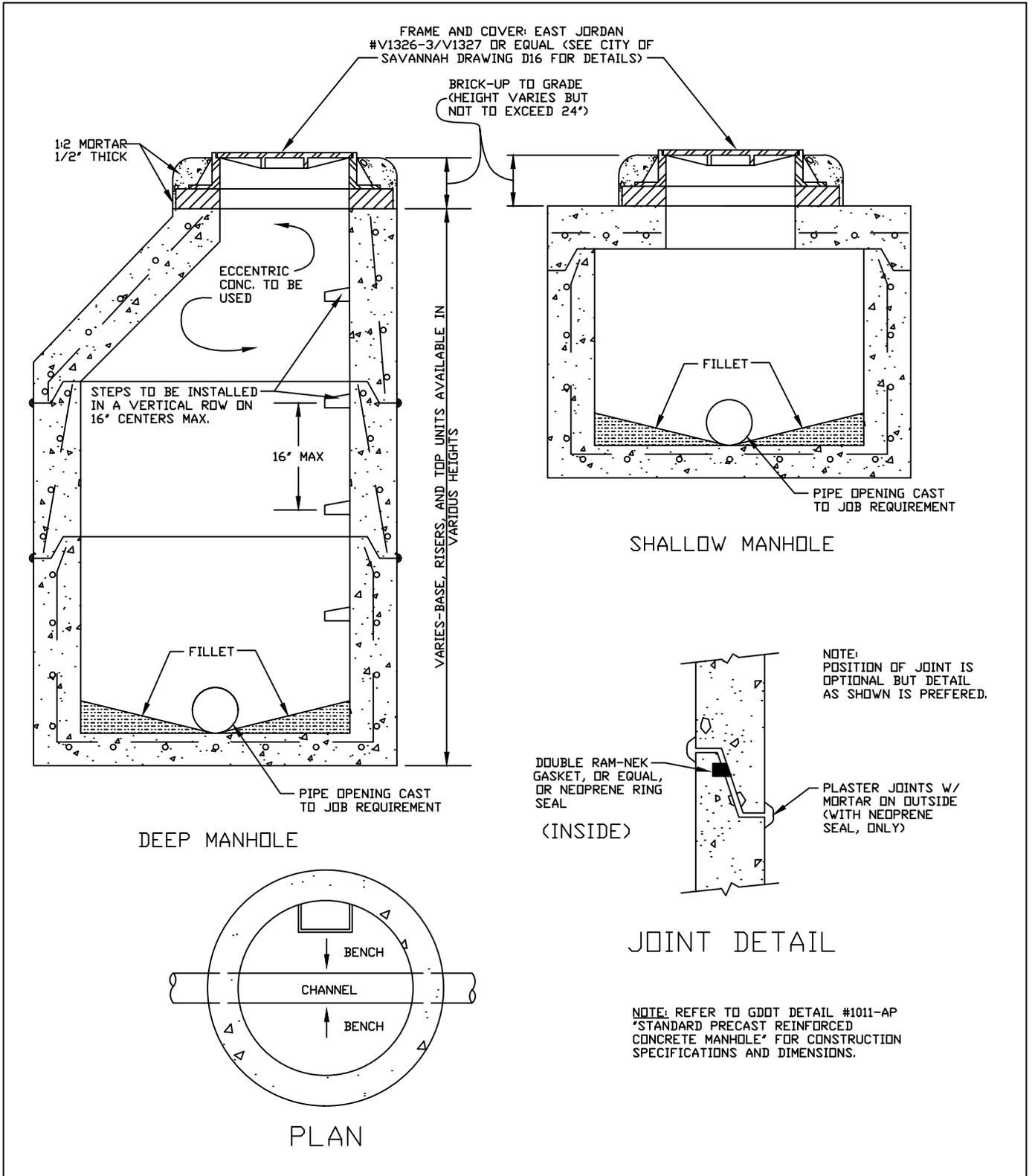
D12

APPROVED:

*John M. Lister*  
 CITY ENGINEER

SCALE: N.T.S.

DATED: MARCH 2020



# STANDARD CONSTRUCTION DETAILS



## STANDARD PRECAST CONCRETE MANHOLE

PLATE NUMBER:

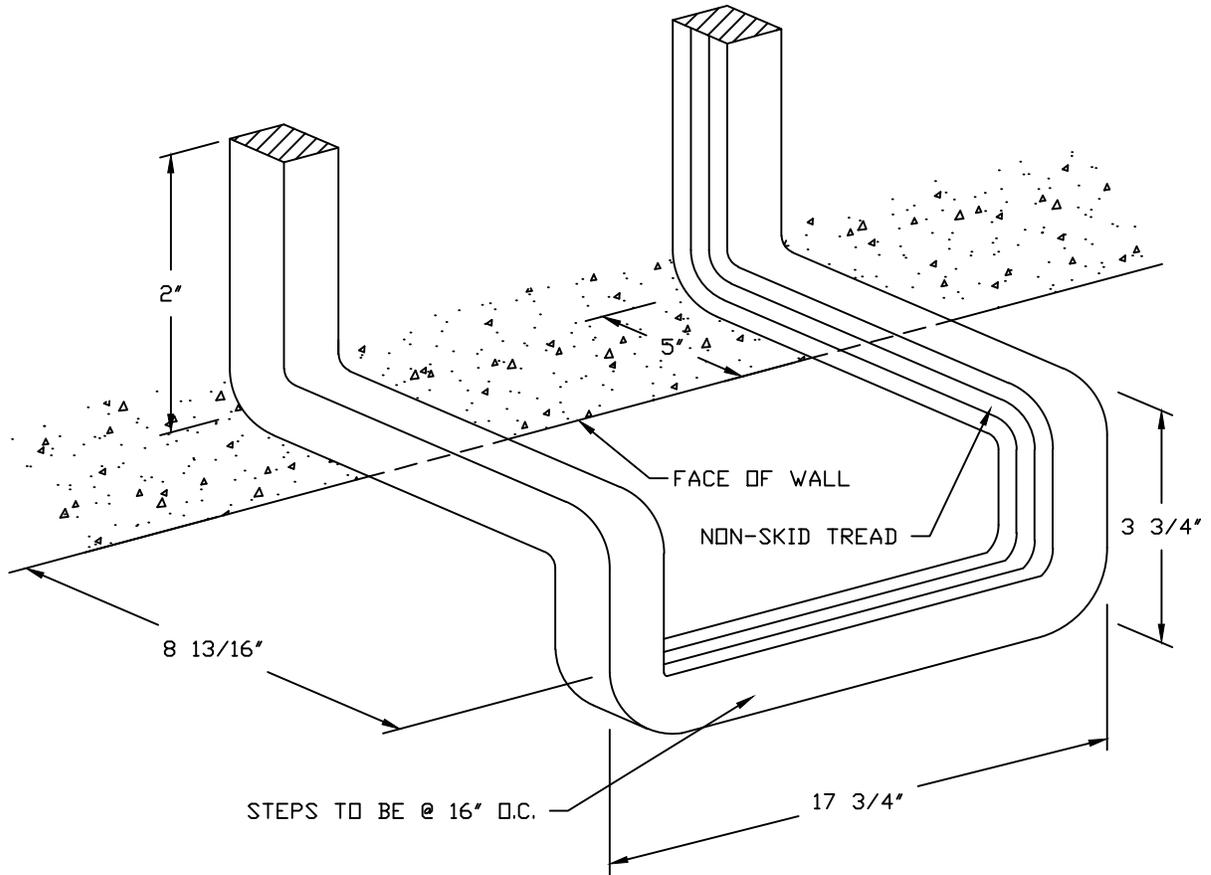
D13

APPROVED:

*Quinn M. Lester*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



ALUMINUM MANHOLE STEP  
 NEENAH FOUNDRY COMPANY  
 CATALOG NO. R-1982-W  
 OR EQUIVALENT

# STANDARD CONSTRUCTION DETAILS



## MANHOLE STEP – ALUMINUM

PLATE NUMBER:

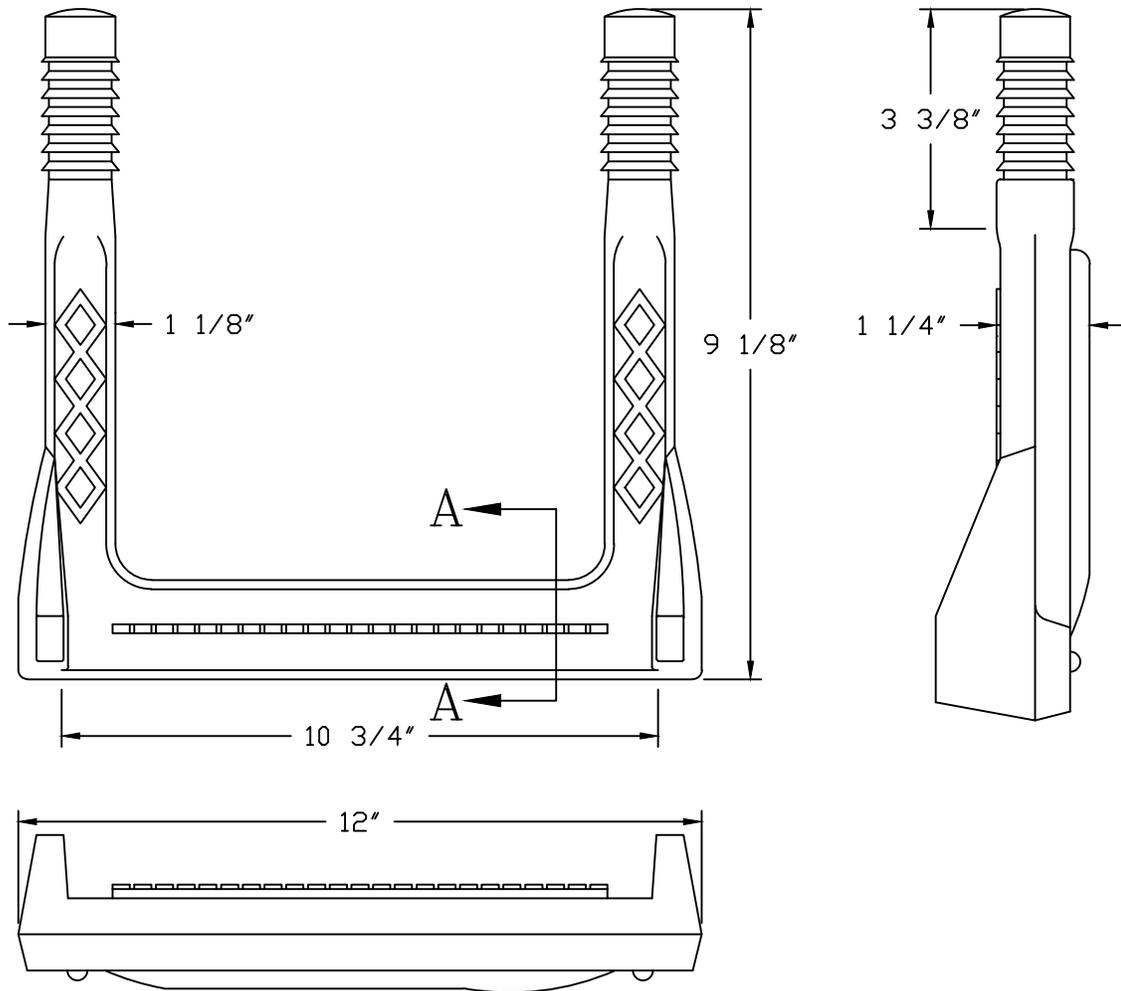
D14

APPROVED:

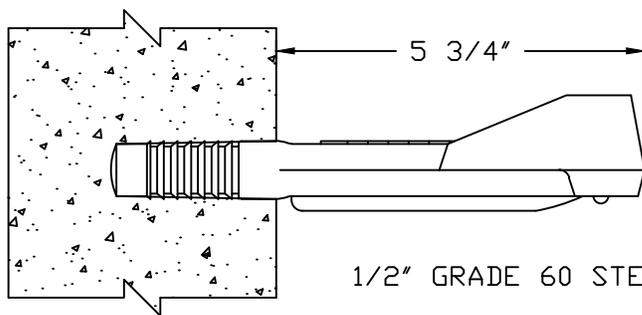
*John M. Lester*  
 CITY ENGINEER

SCALE: N.T.S.

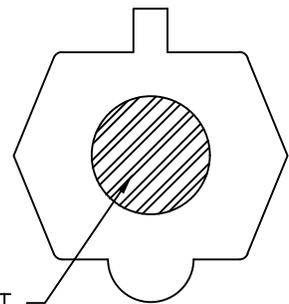
DATED: FEBRUARY 2019



COPOLYMER POLYPROPYLENE PLASTIC



1/2" GRADE 60 STEEL REINFORCEMENT



SECTION A-A

STANDARD CONSTRUCTION  
DETAILS



MANHOLE STEP-POLYPROPYLENE

PLATE NUMBER:

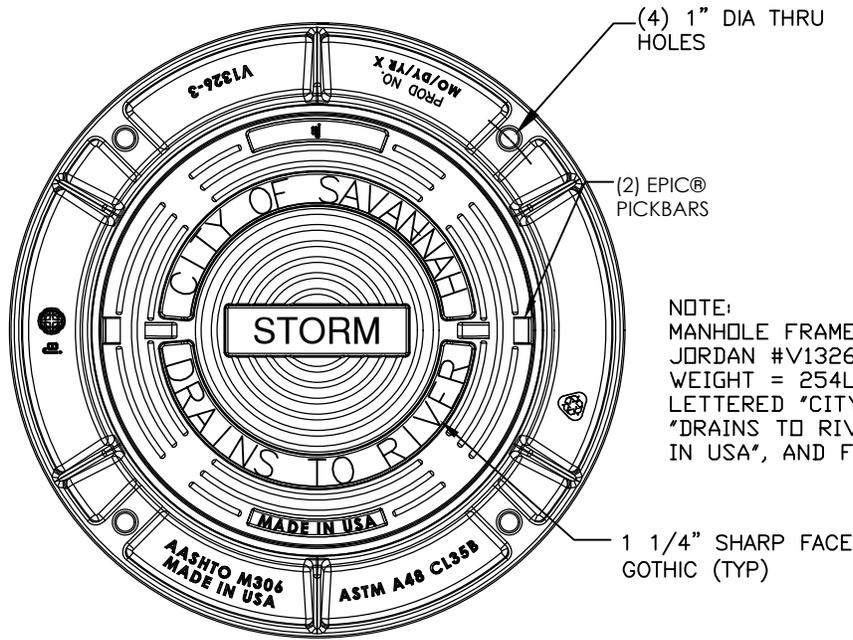
APPROVED:

*John M. Lutz*  
CITY ENGINEER

SCALE: N.T.S.

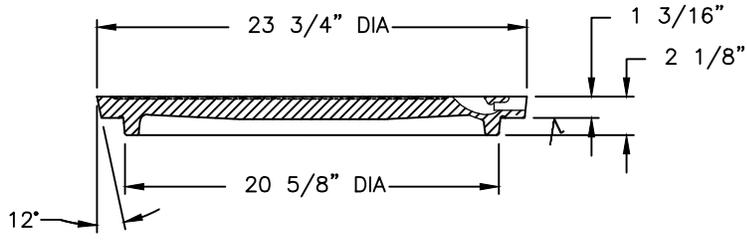
DATED: FEBRUARY 2019

D15

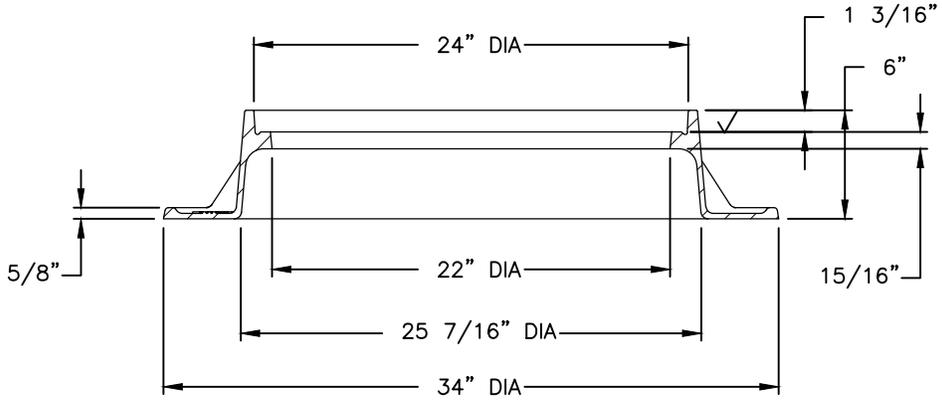


NOTE:  
 MANHOLE FRAME AND COVER: EAST JORDAN #V1326-3/V1327 OR EQUAL. WEIGHT = 254LBS. LID TO BE LETTERED "CITY OF SAVANNAH", "DRAINS TO RIVER", "STORM", "MADE IN USA", AND FOUNDRY STAMP

PLAN VIEW



COVER SECTION



FRAME SECTION

STANDARD CONSTRUCTION  
 DETAILS



MANHOLE COVER & FRAME DETAIL

PLATE NUMBER:

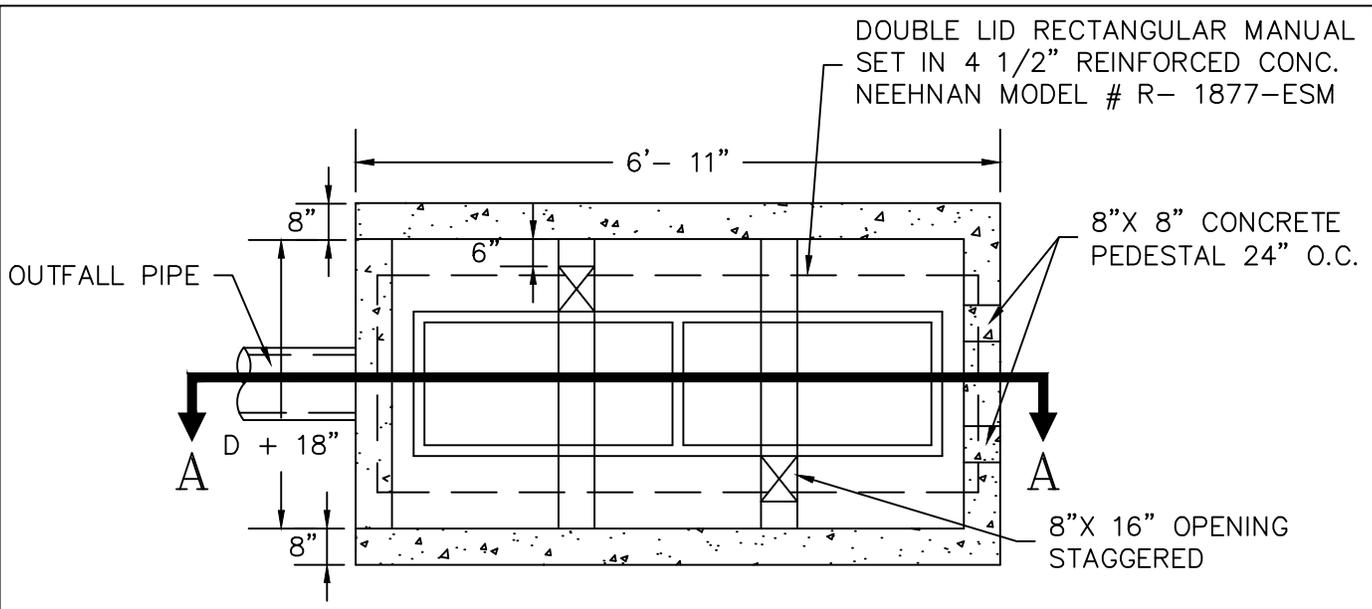
D16

APPROVED:

*John M. Lester*  
 CITY ENGINEER

SCALE: N.T.S.

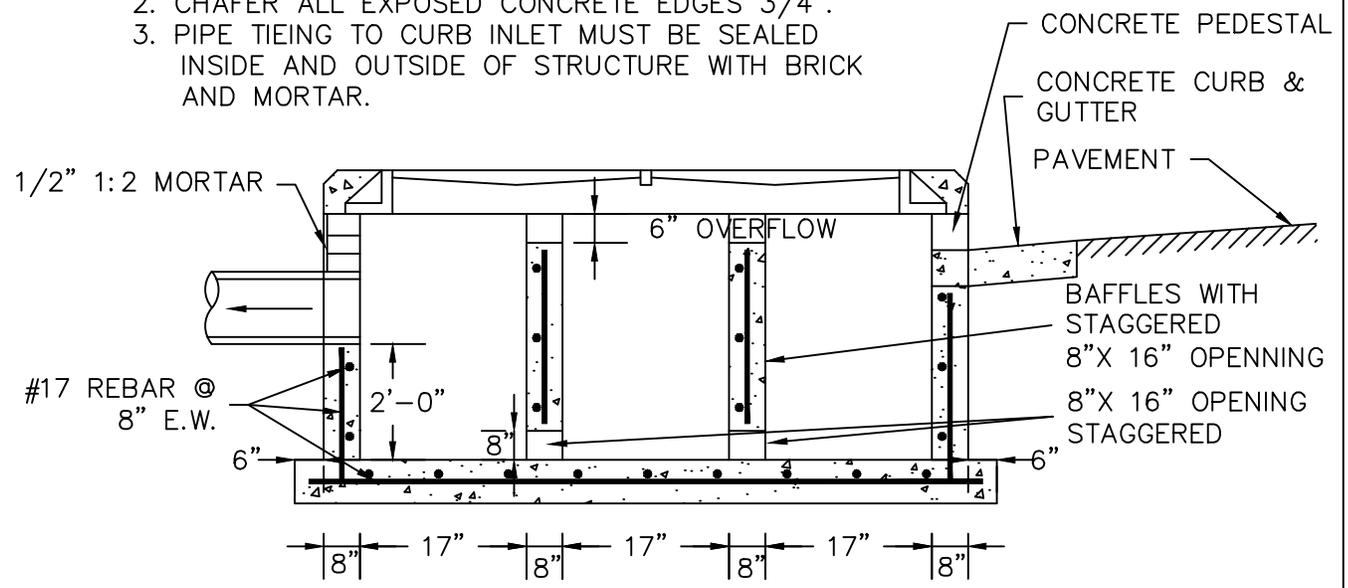
DATED: FEBRUARY 2019



PLAN VIEW

NOTES:

1. UPSTREAM PIPES SHALL ONLY ENTER STRUCTURE FROM SIDE OF REAR CHAMBER.
2. CHAFER ALL EXPOSED CONCRETE EDGES 3/4".
3. PIPE TIEING TO CURB INLET MUST BE SEALED INSIDE AND OUTSIDE OF STRUCTURE WITH BRICK AND MORTAR.



DIMENSIONS SHOWN ARE MINIMUM

CROSS SECTION A-A

NOTE:  
STRUCTURE TO BE INSPECTED AND POLLUTANTS DISPOSED OF PER E.P.A. REQUIREMENTS ON A MONTHLY BASIS

STANDARD CONSTRUCTION  
DETAILS



STORM WATER POLLUTION STRUCTURE

PLATE NUMBER:

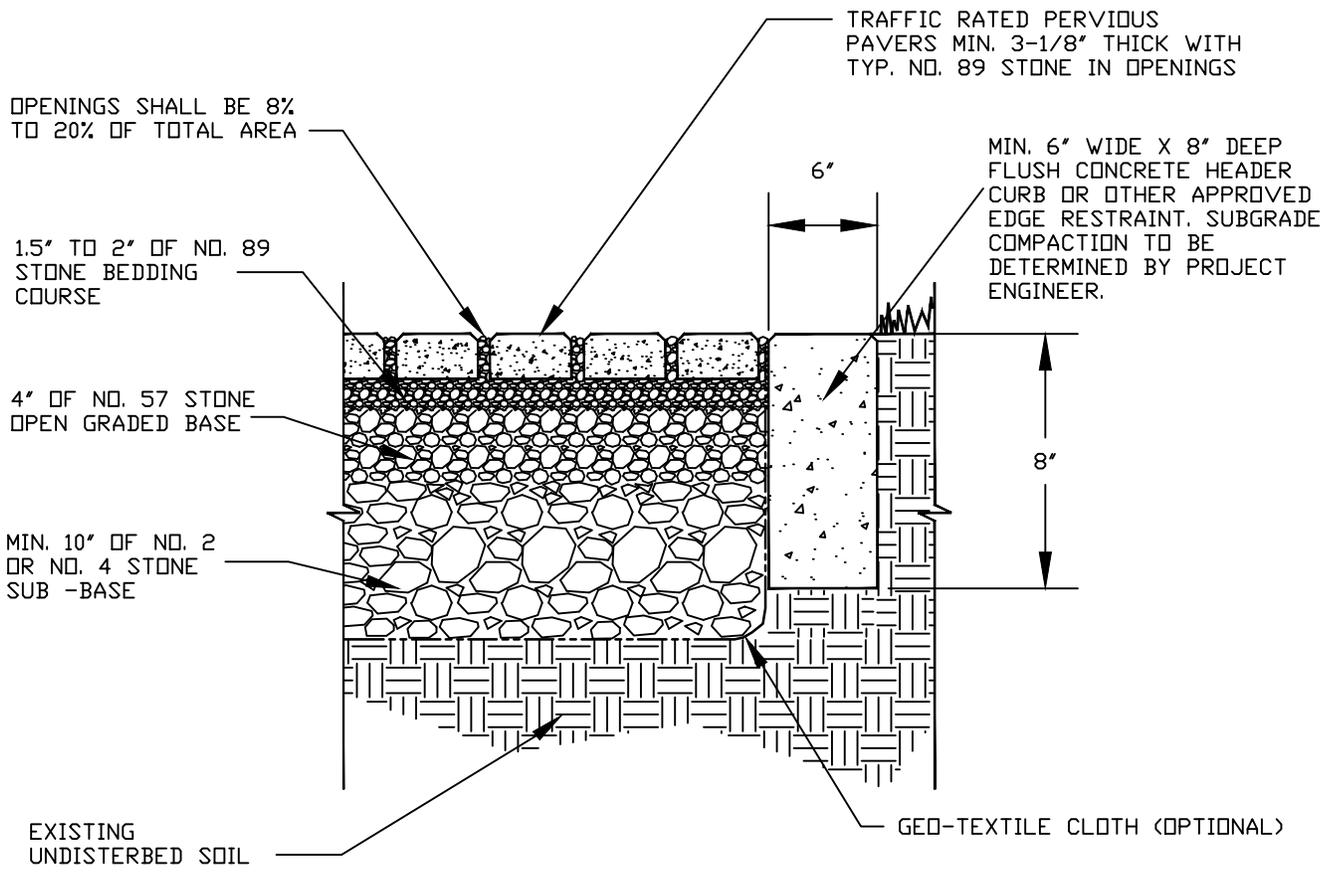
D17

APPROVED:

*John M. [Signature]*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



NOTES:

1. CROSS-SECTION FOR USE OUTSIDE THE ROW ON PRIVATE PROPERTY.
2. ALL WORK IN TREE PROTECTION ZONES SHALL BE DONE BY HAND OR WITH LIGHT EQUIPMENT.
3. THIS CROSS-SECTION SHALL NOT BE USED IN ANY CITY RIGHT OF WAY.

# STANDARD CONSTRUCTION DETAILS



## PERVIOUS PAVERS FOR PARKING LOTS

PLATE NUMBER:

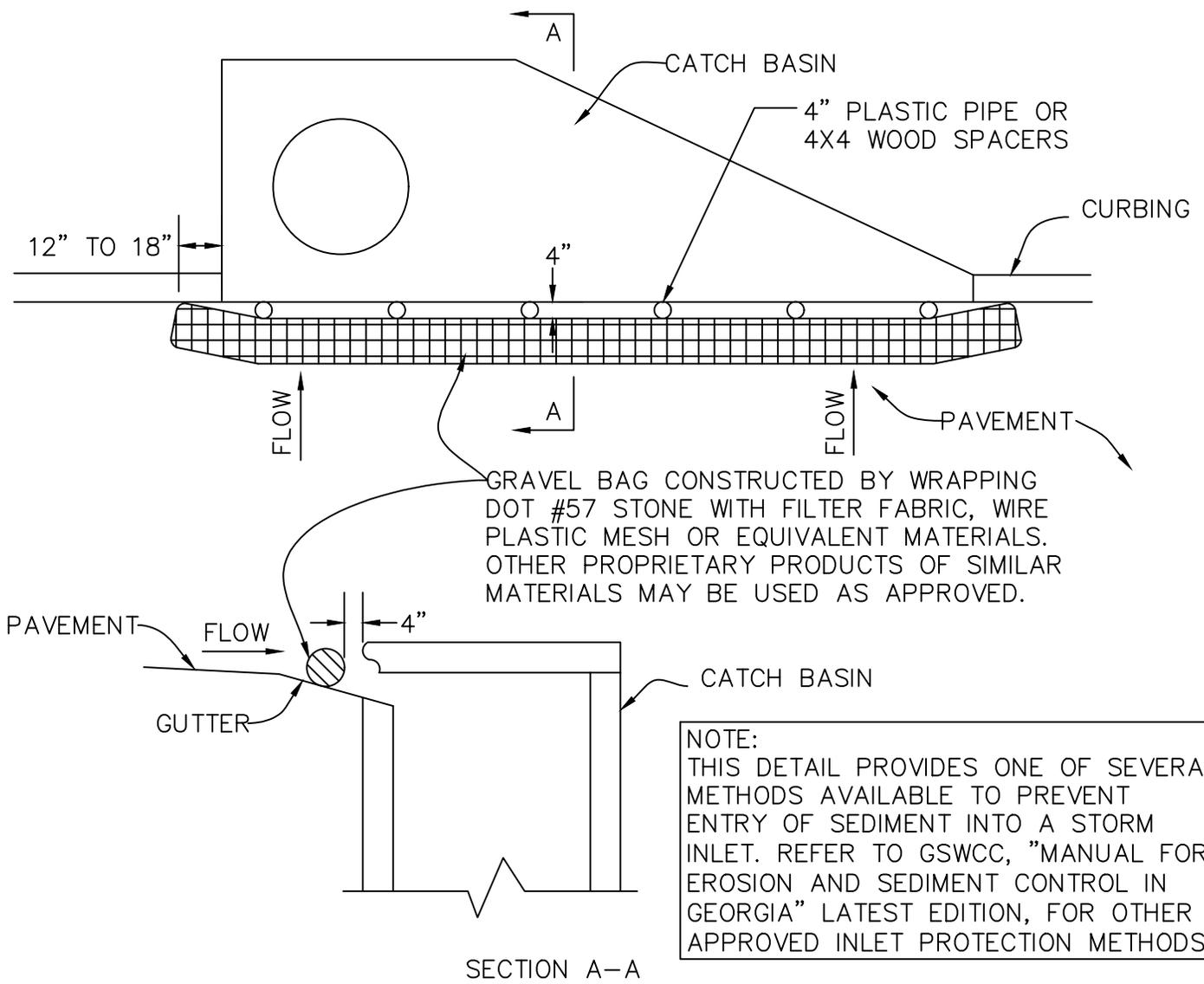
D18

APPROVED:

*John M. Lester*  
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



1. SEE SPECIFIC PRODUCT MANUFACTURERS RECOMMENDATIONS FOR APPROPRIATE SIZE, MATERIAL AND INSTALLATION METHOD APPROPRIATE FOR EACH INLET PROTECTION LOCATION AND REQUIREMENTS.
2. A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. A SHORT PIECE OF 4X4 WOODEN BLOCK OR 4" PLASTIC PIPE MAY BE REQUIRED TO MAINTAIN THIS OPENING. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL DUE TO POSSIBLE PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.
3. THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY.
4. PROTECTION MUST OVERLAP THE INLET BY 12" TO 18" ON EACH END.

## STANDARD CONSTRUCTION DETAILS



## TEMPORARY CURB INLET PROTECTION

PLATE NUMBER:

APPROVED:

*Quinn M. Carter*  
CITY ENGINEER

SCALE: N.T.S.

DATED: MARCH 2020

D19