

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:

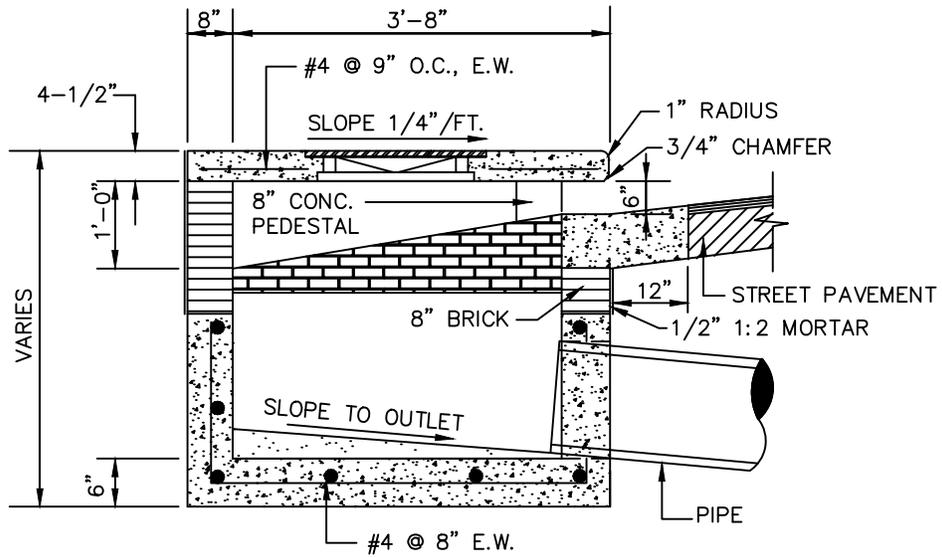
D1

APPROVED:

John M. [Signature]
 CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



- 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

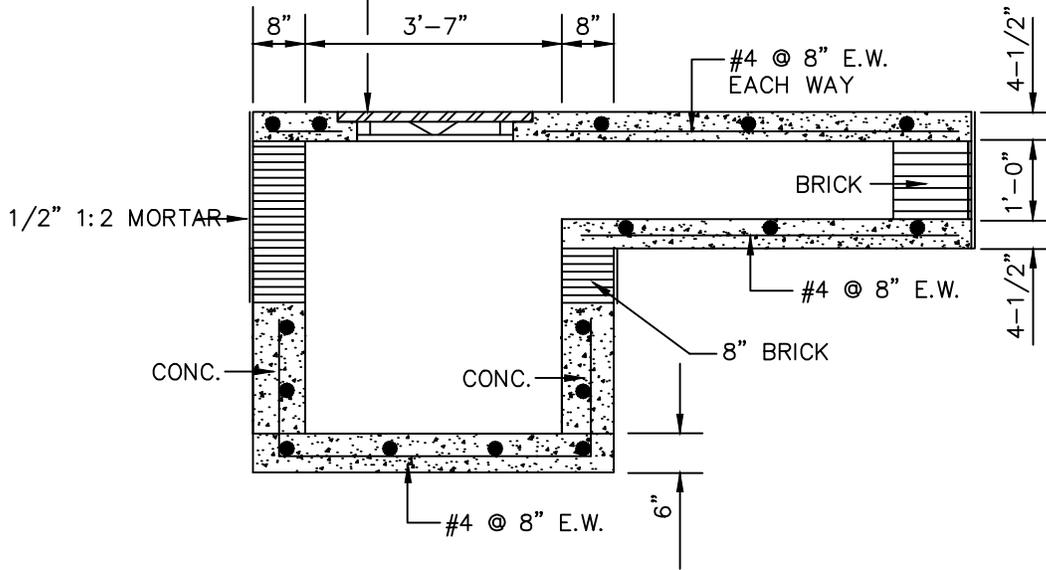
SCALE: N.T.S.

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:

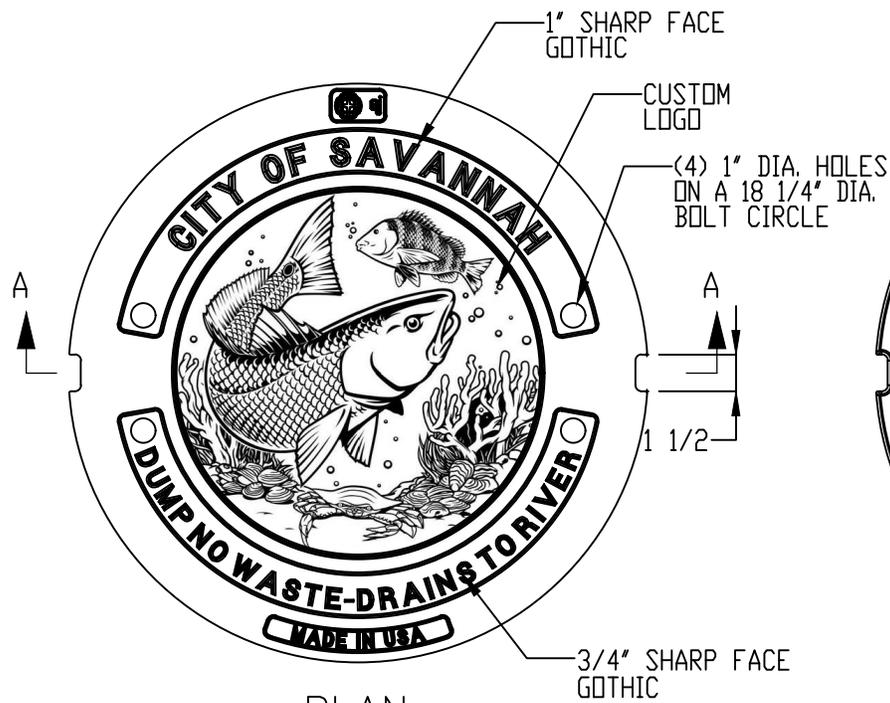
D4

APPROVED:

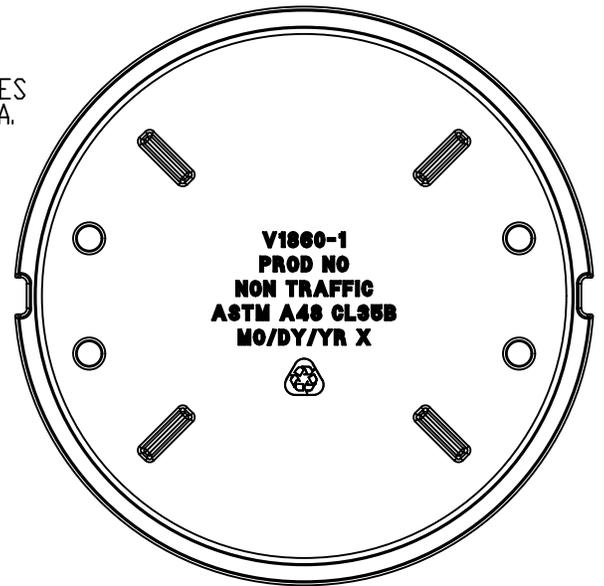
John M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

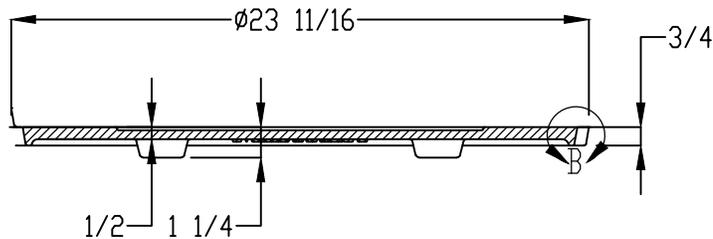
DATED: FEBRUARY 2019



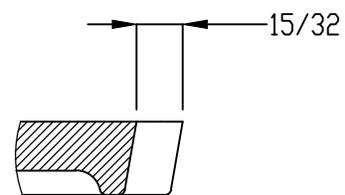
PLAN



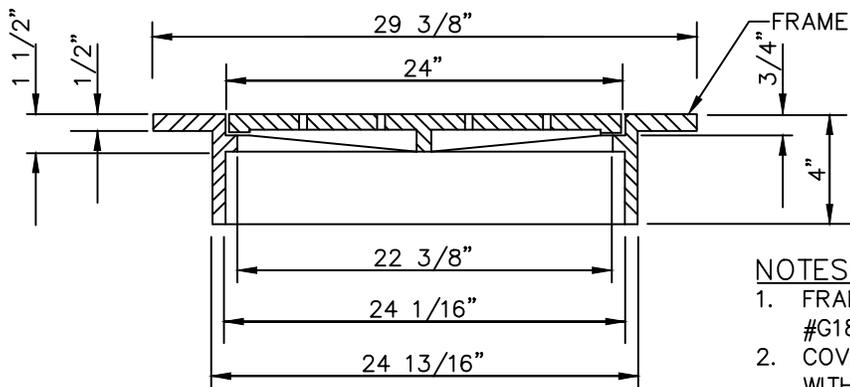
BOTTOM VIEW



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:

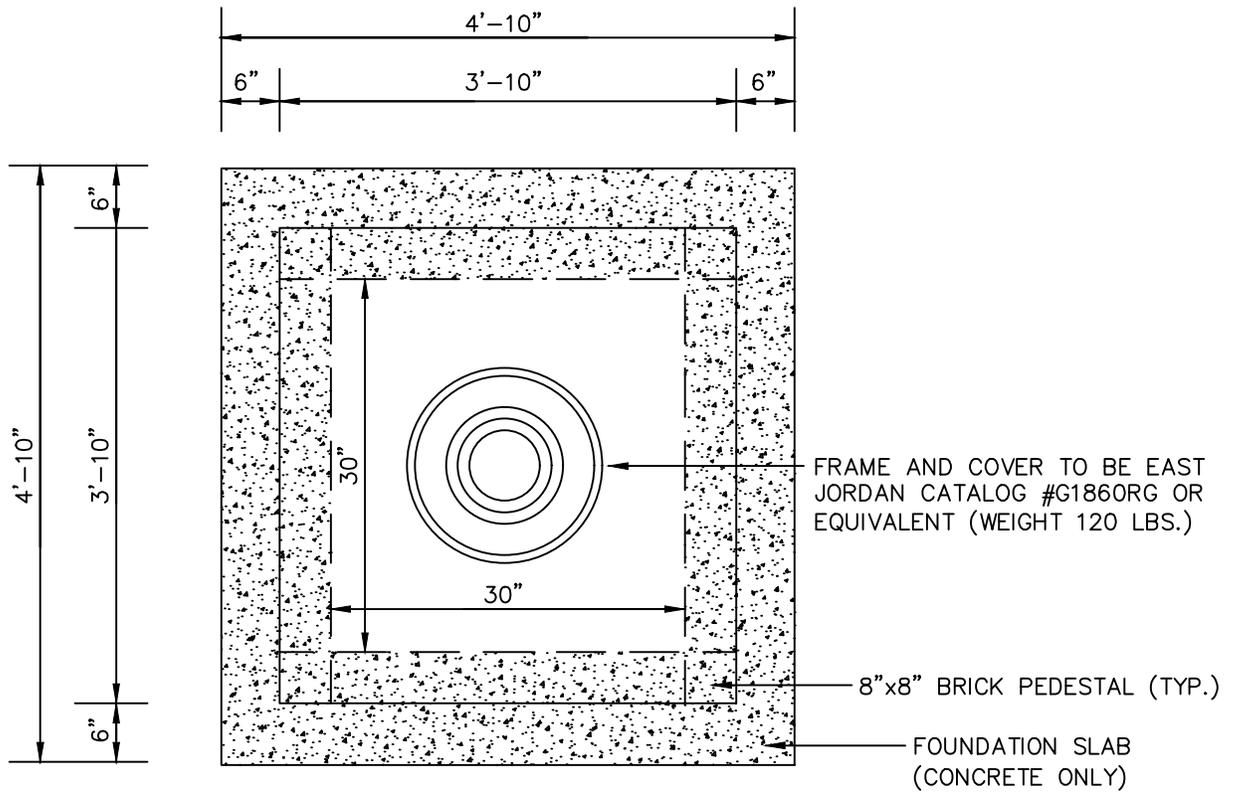
D5

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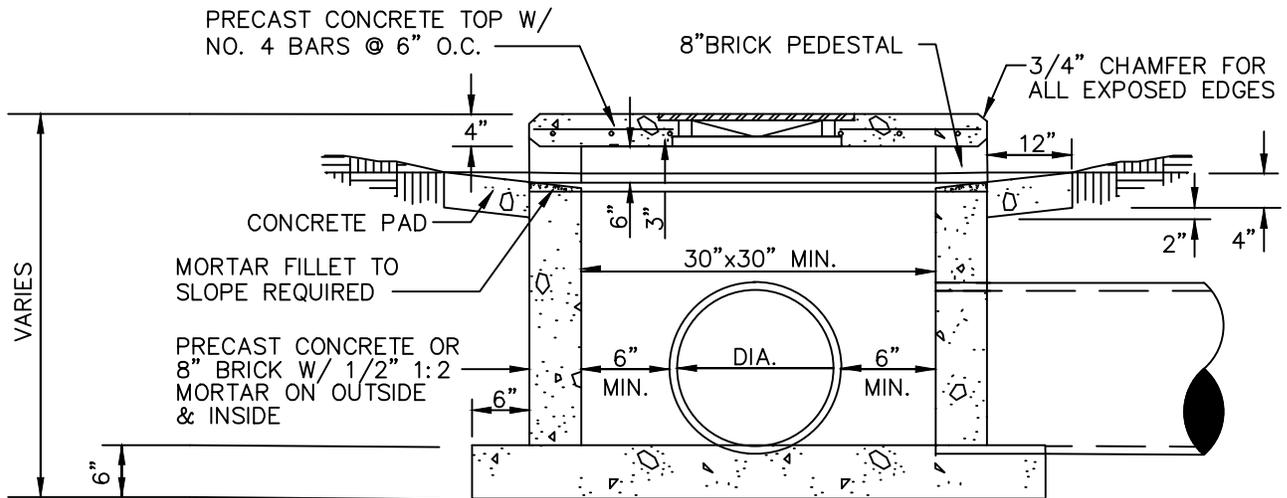
Quinn M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



PLAN



STANDARD CONSTRUCTION
DETAILS



ROOF INLET

PLATE NUMBER:

APPROVED:

John M. Lester
CITY ENGINEER

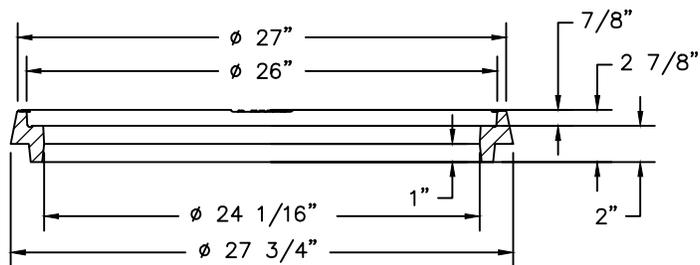
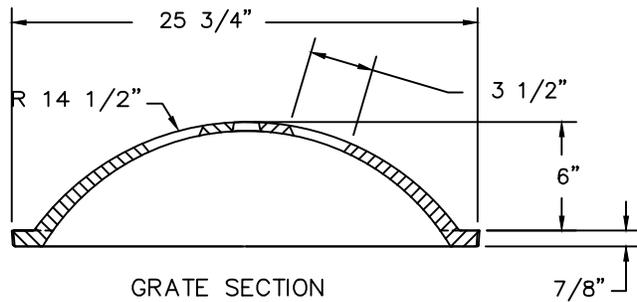
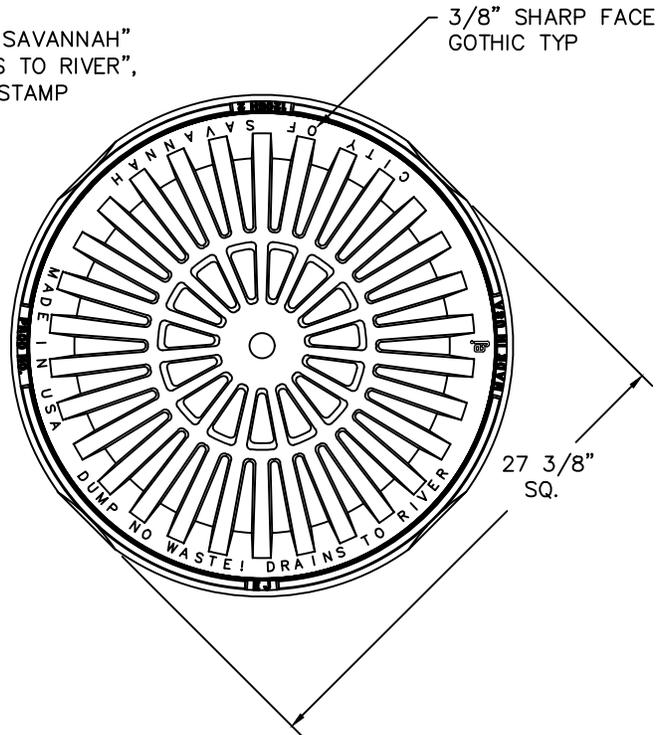
SCALE: N.T.S.

DATED: FEBRUARY 2019

D6

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

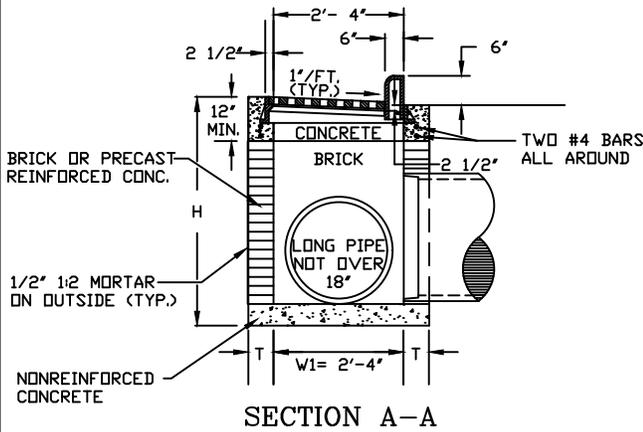
APPROVED:

Quin M. Lister
CITY ENGINEER

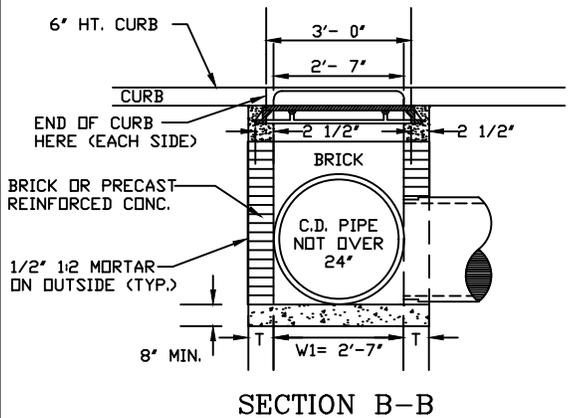
SCALE: N.T.S.

DATED: FEBRUARY 2019

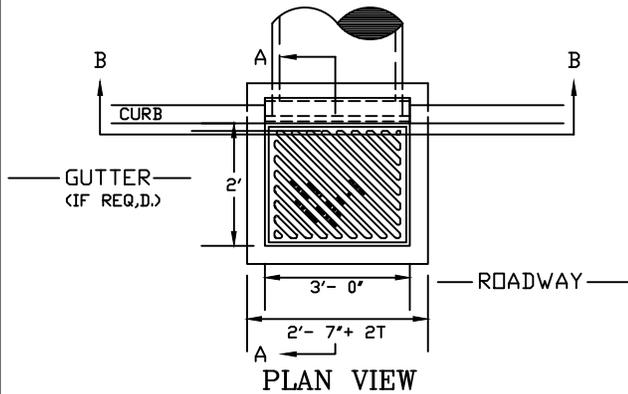
DROP INLET TYPE V-1



SECTION A-A



SECTION B-B

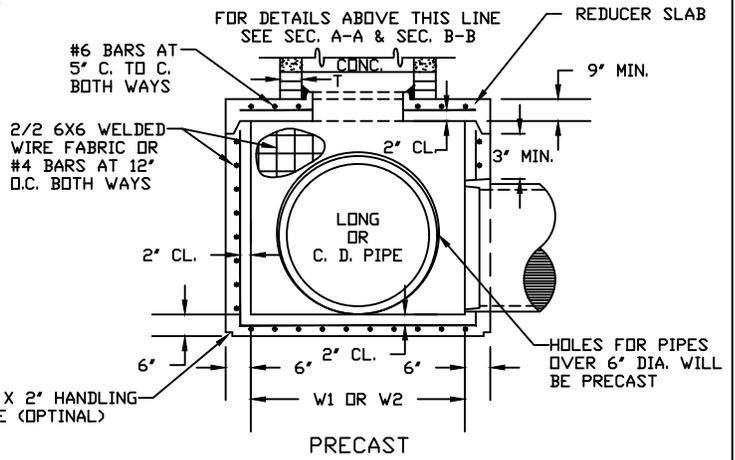


PLAN VIEW

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

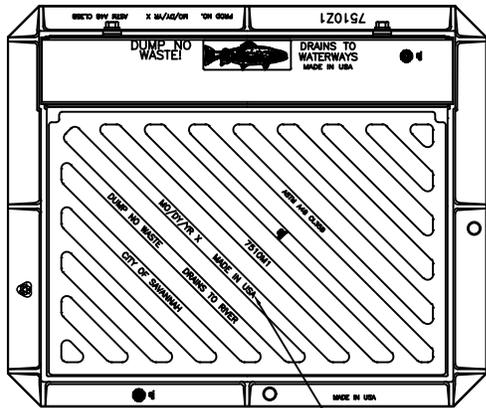
SCALE: N.T.S.

DATE: FEBRUARY 2019

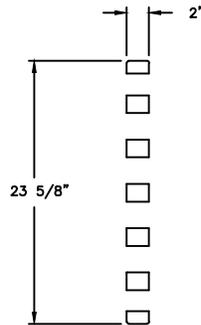
D8

NOTES:

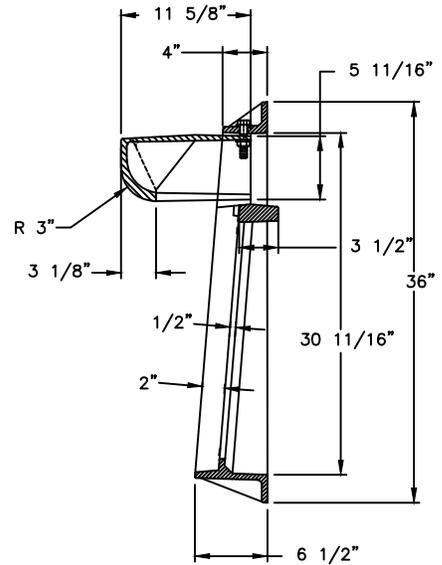
1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #7501Z1-7030T6-7510M1 OR EQUIVALENT WITH DIAGONAL BARS (WEIGHT 566 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



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

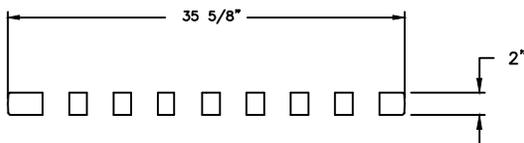


GRATE SECTION

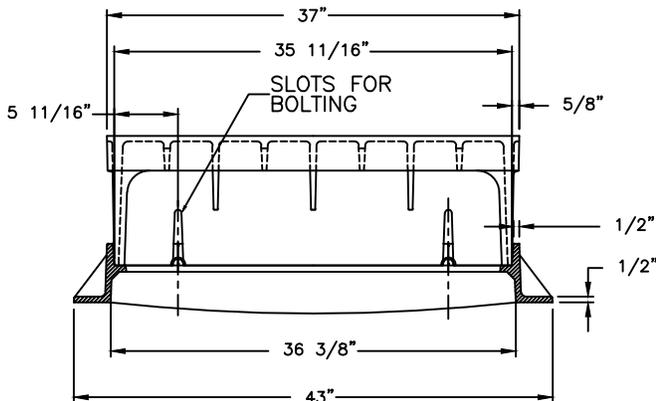


HOOD & FRAME SECTION

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:

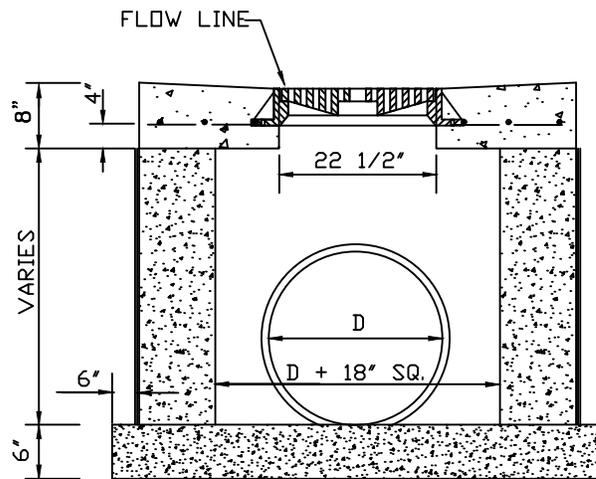
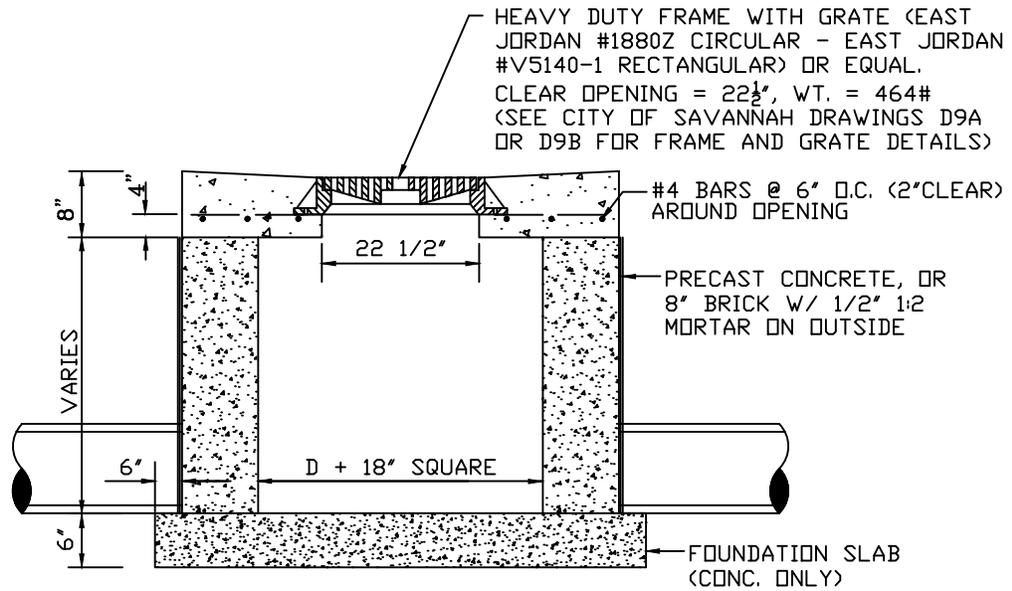
D8A

APPROVED:

John M. Lester
CITY ENGINEER

SCALE: N.T.S.

DATE: FEBRUARY 2019



STANDARD CONSTRUCTION DETAILS



GRATE INLET DETAIL

PLATE NUMBER:

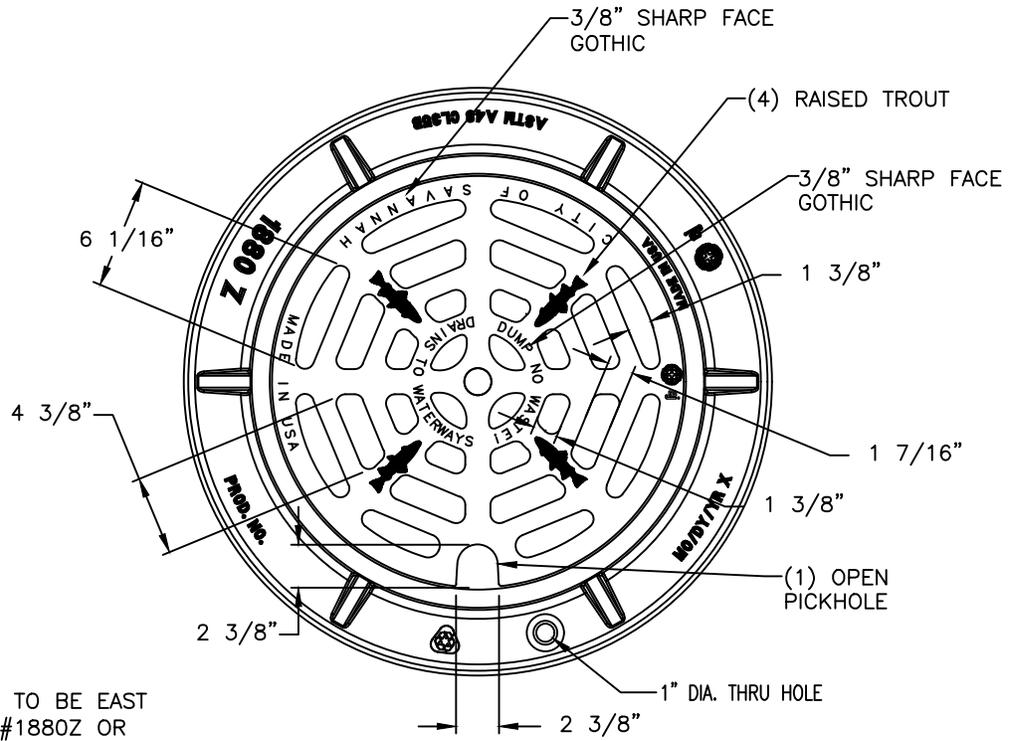
D9

APPROVED:

Quinn M. Lester
 CITY ENGINEER

SCALE: N.T.S.

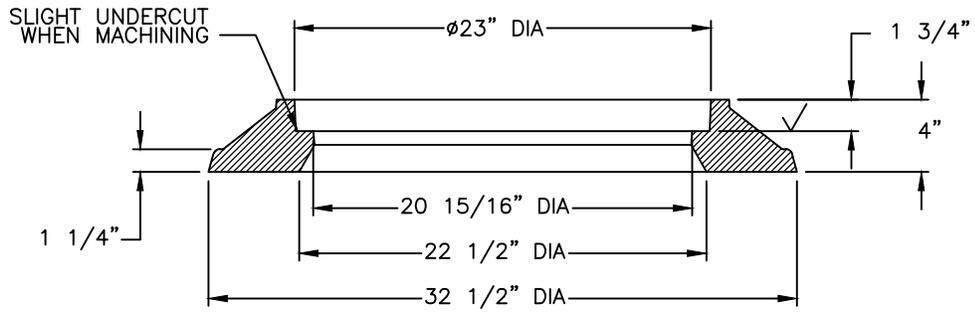
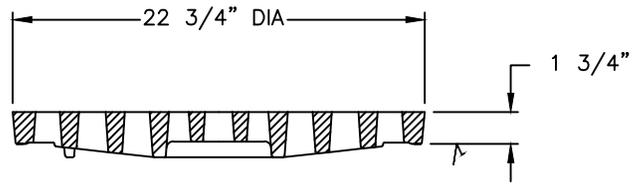
DATED: FEBRUARY 2019



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:

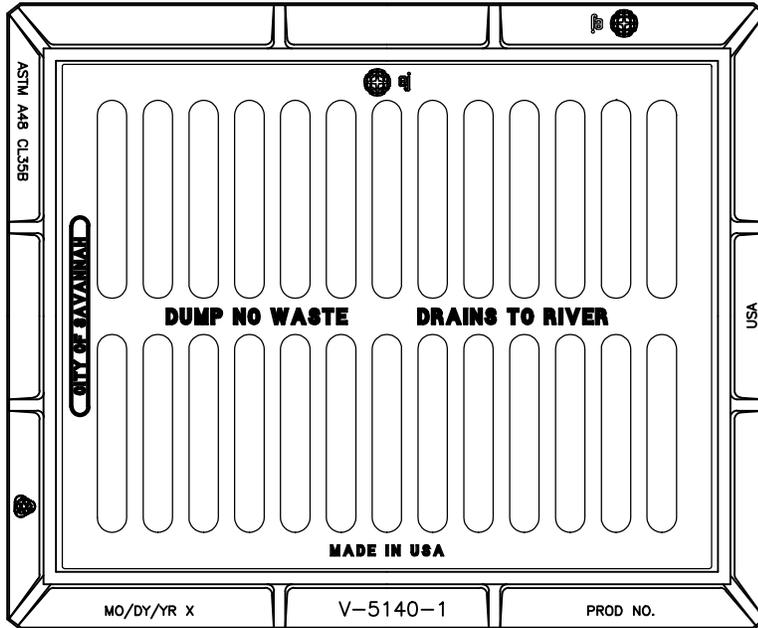
D9A

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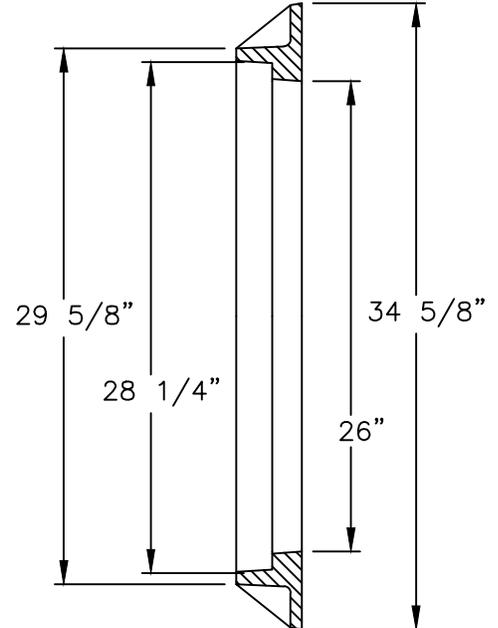
John M. Lester
CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2019



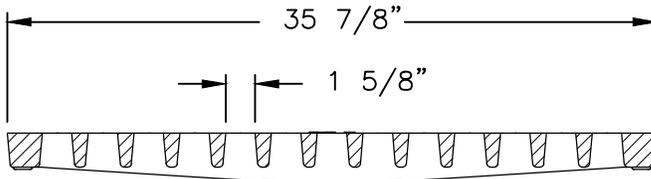
PLAN VIEW



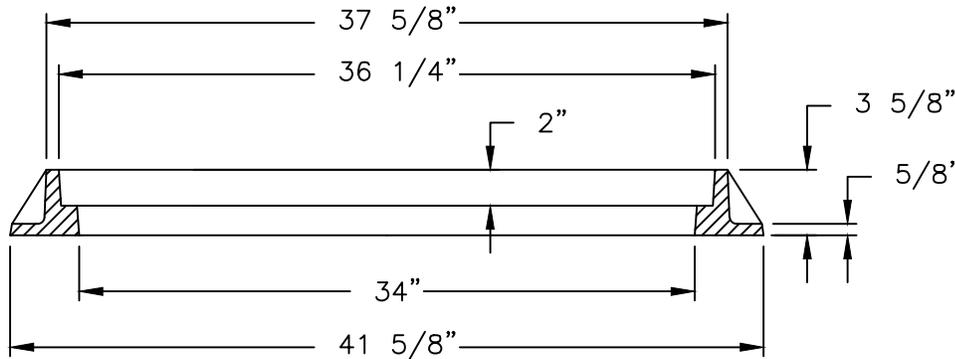
FRAME SECTION

NOTES:

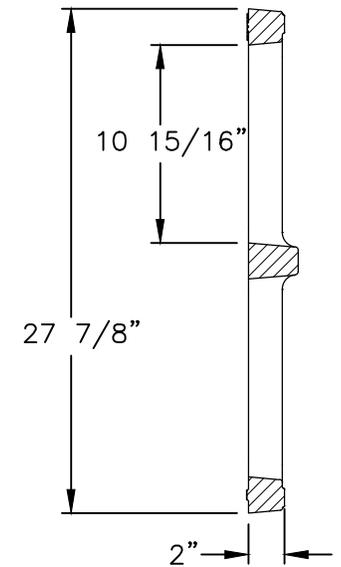
1. FRAME AND GRATE TO BE EAST JORDAN CATALOG #V5140-1 OR EQUIVALENT (WEIGHT 464 LBS.)
2. GRATE MUST PROVIDE "CITY OF SAVANNAH" LOGO, "DUMP NO WASTE-DRAINS TO RIVER", "MADE IN USA", AND FOUNDRY STAMP



GRATE SECTION



FRAME SECTION



GRATE SECTION

STANDARD CONSTRUCTION
DETAILS



RECTANGULAR GRATE INLET DETAIL

PLATE NUMBER:

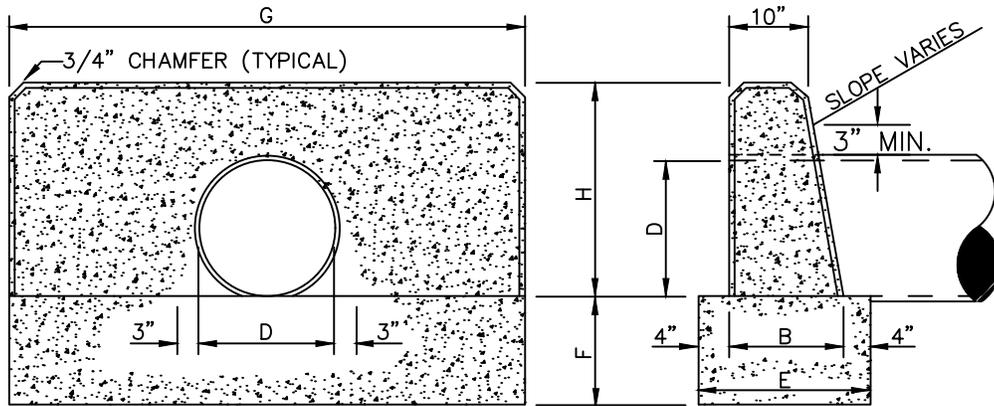
D9B

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

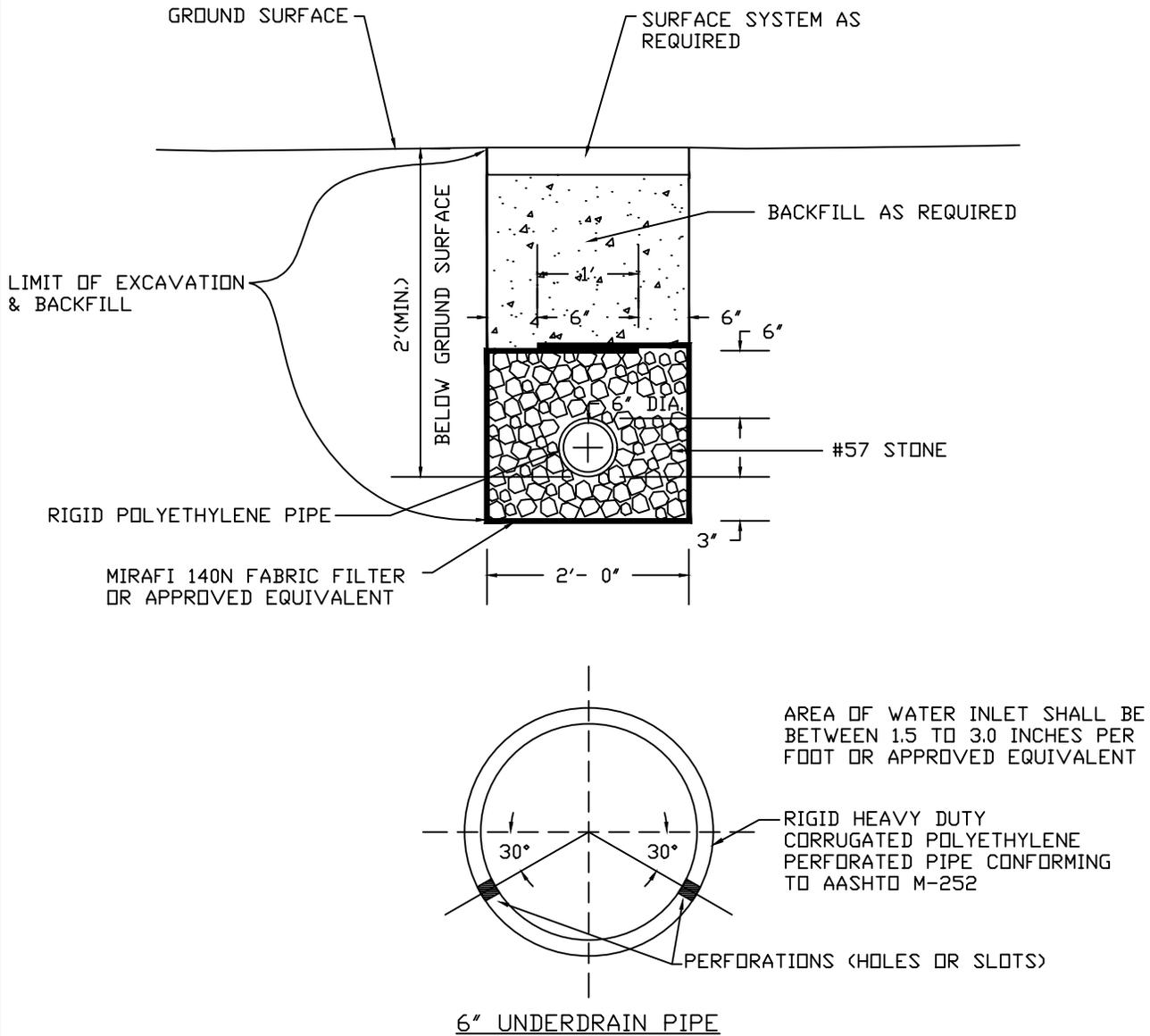
SCALE:

N.T.S.

DATED:

FEBRUARY 2019

D10



STANDARD CONSTRUCTION
DETAILS



6" UNDERDRAIN PIPE

PLATE NUMBER:

D11

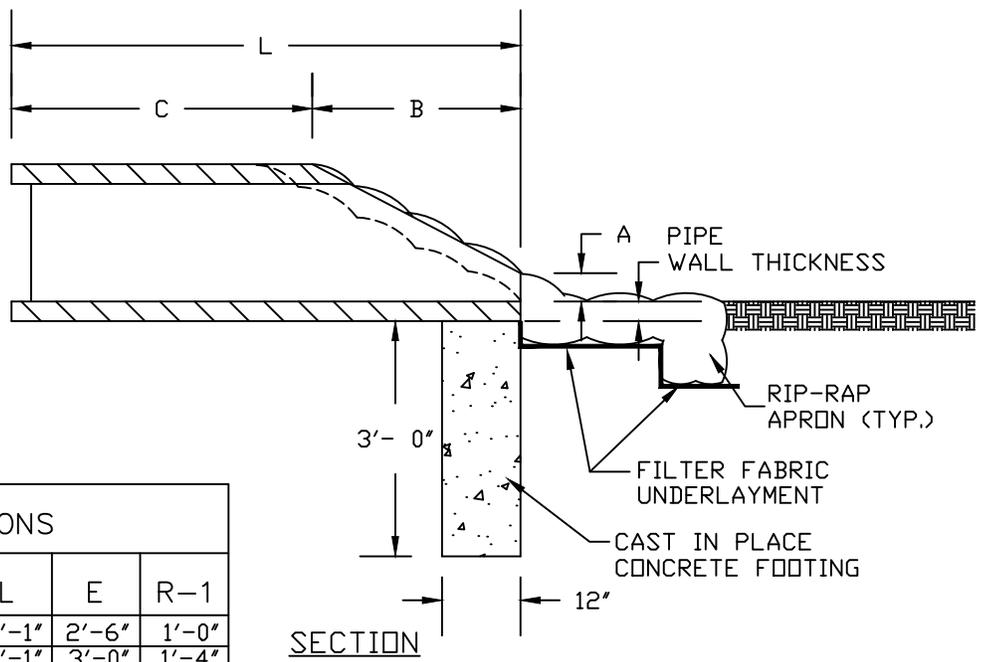
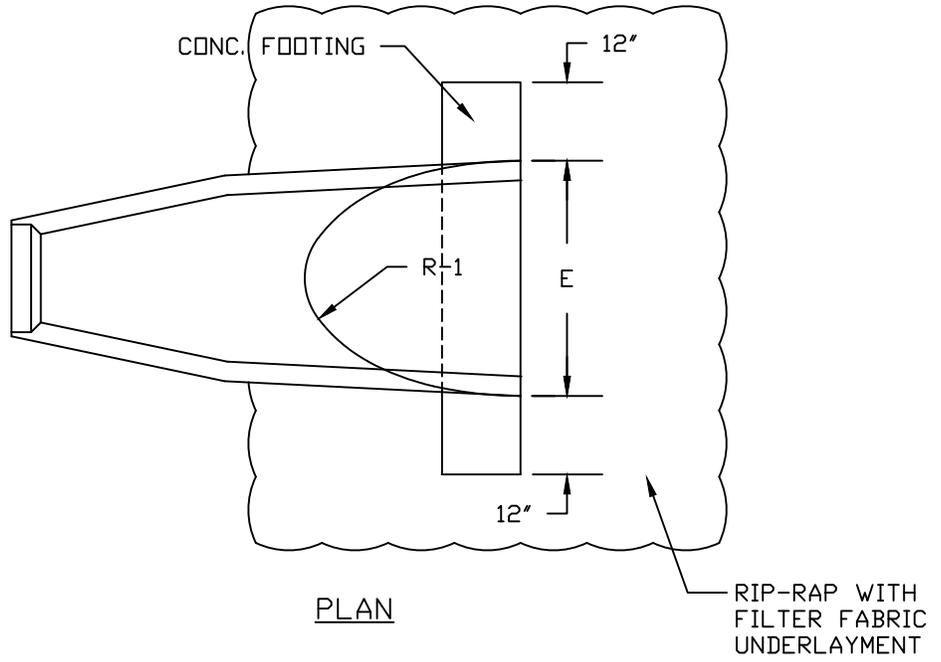
APPROVED:

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:

 CITY ENGINEER

SCALE: N.T.S.

DATED: FEBRUARY 2023

FRAME AND COVER: EAST JORDAN
#V1326-3/V1327 OR EQUAL (SEE CITY OF
SAVANNAH DRAWING D16 FOR DETAILS)

BRICK-UP TO GRADE
(HEIGHT VARIES BUT
NOT TO EXCEED 12")

1/2" MORTAR
1/2" THICK

ECCENTRIC
CONC. TO BE
USED

VARIES-BASE, RISERS, AND TOP UNITS AVAILABLE IN
VARIOUS HEIGHTS

FILLET

PIPE OPENING CAST
TO JOB REQUIREMENT

SHALLOW MANHOLE

FILLET

PIPE OPENING CAST
TO JOB REQUIREMENT

DEEP MANHOLE

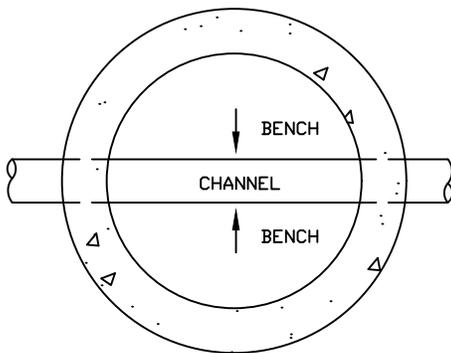
NOTE:
POSITION OF JOINT IS
OPTIONAL BUT DETAIL
AS SHOWN IS PREFERRED.

DOUBLE RAM-NEK
GASKET, OR EQUAL,
OR NEOPRENE RING
SEAL

(INSIDE)

PLASTER JOINTS W/
MORTAR ON OUTSIDE
(WITH NEOPRENE
SEAL, ONLY)

JOINT DETAIL



PLAN

NOTE:

REFER TO GDOT DETAIL #1011-AP "STANDARD PRECAST REINFORCED CONCRETE MANHOLE" FOR CONSTRUCTION SPECIFICATIONS AND DIMENSIONS.

FOR INTERFERENCE MANHOLES, THE S.S PIPE MUST BE DIP OR LOCATED INSIDE OF A STEEL CASING; THE S.S PIPE SHALL BE THICKNESS CLASS 50 DUCTILE IRON, WITH PROTECTED 401 CERAMIC EPOXY INTERIOR LINING; RIGID COUPLINGS - DUCTILE IRON MECHANICAL JOINT SOLID SLEEVE TYPE OR DUCTILE IRON STRAIGHT AND TRANSITION TYPE (E.G. DRESSER COUPLINGS) SHALL BE USED FOR CONNECTION TO THE EXISTING CLAY PIPE. SEE COS SECTION 02554 WASTEWATER COLLECTION SYSTEM SPECIFICATION FOR DETAILS.

STANDARD CONSTRUCTION
DETAILS

SAVANNAH
savannahga.gov



STANDARD PRECAST CONCRETE MANHOLE

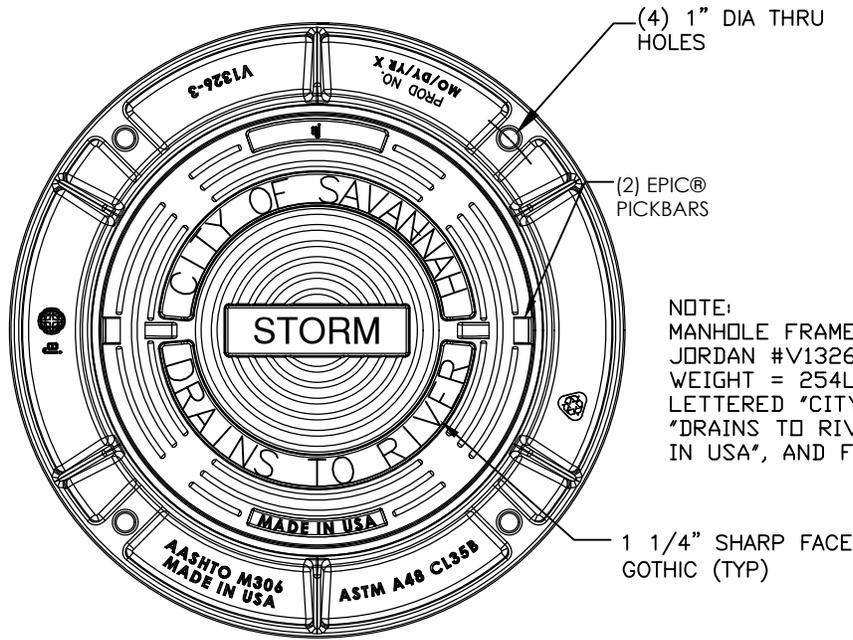
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APPROVED:

SCALE: N.T.S.

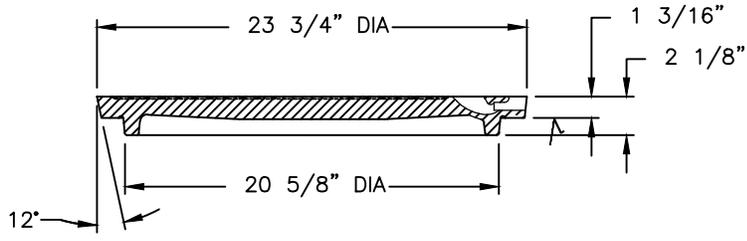
DATED: FEBRUARY 2023

D13

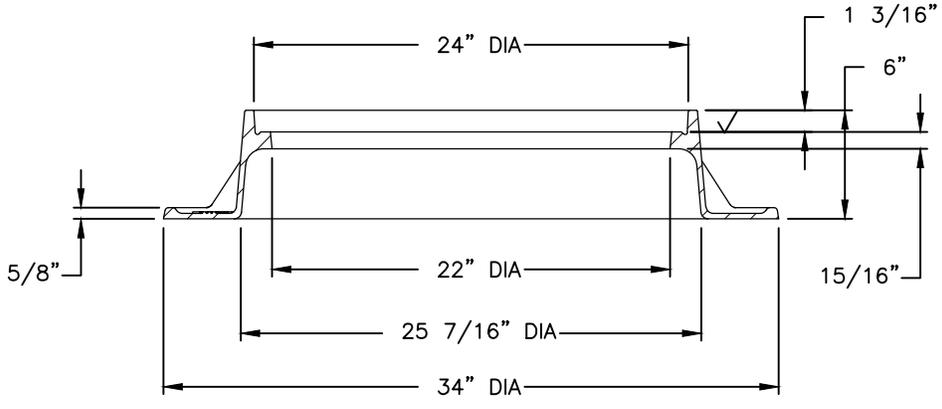


NOTE:
 MANHOLE FRAME AND COVER: EAST JORDAN #V1326-3/V1327 OR EQUAL. WEIGHT = 254LBS. LID TO BE LETTERED "CITY OF SAVANNAH", "DRAINS TO RIVER", "STORM", "MADE IN USA", AND FOUNDRY STAMP

PLAN VIEW



COVER SECTION



FRAME SECTION

STANDARD CONSTRUCTION
 DETAILS



MANHOLE COVER & FRAME DETAIL

PLATE NUMBER:

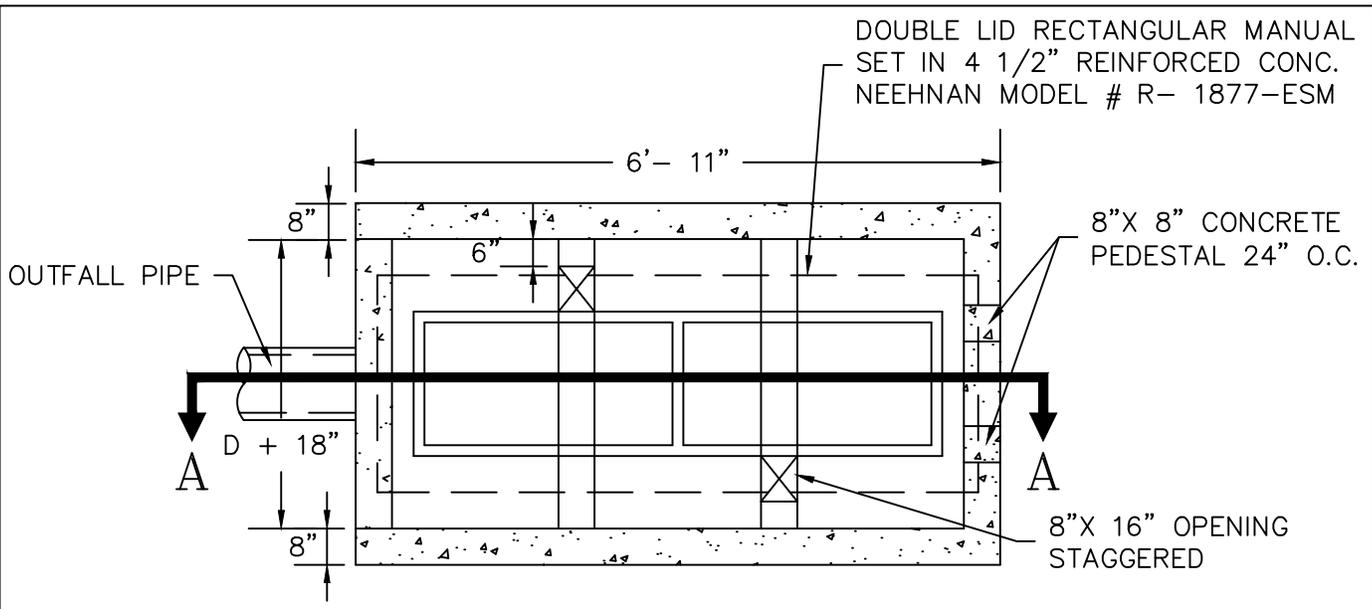
D16

APPROVED:

John M. Lester
 CITY ENGINEER

SCALE: N.T.S.

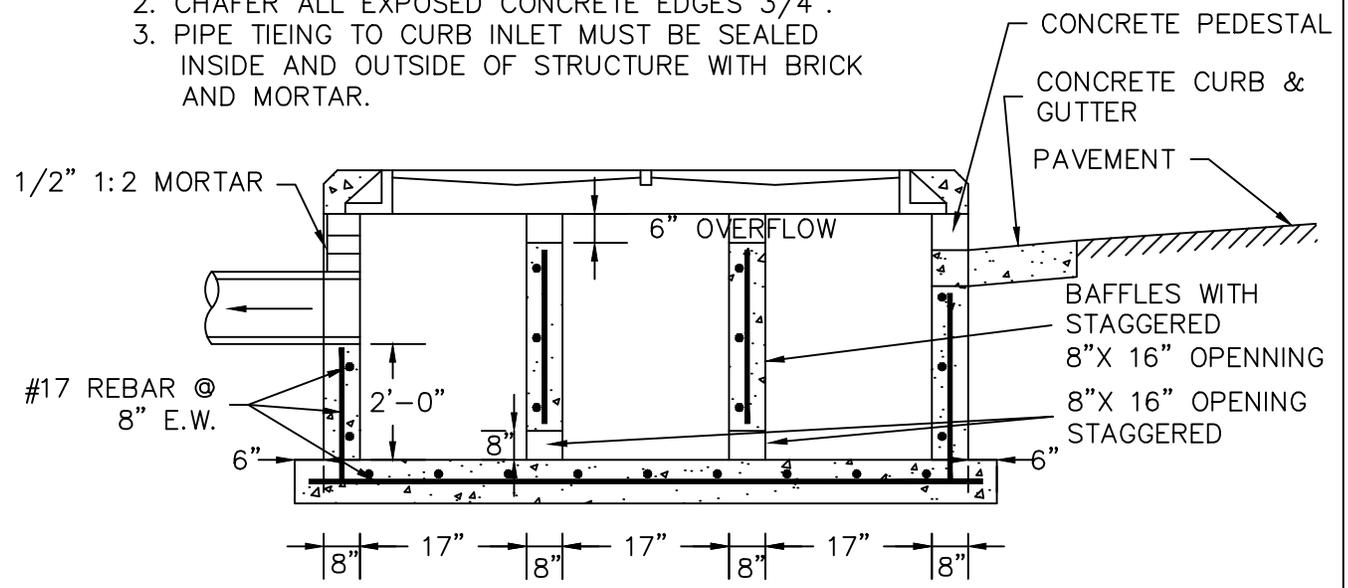
DATED: FEBRUARY 2019



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:

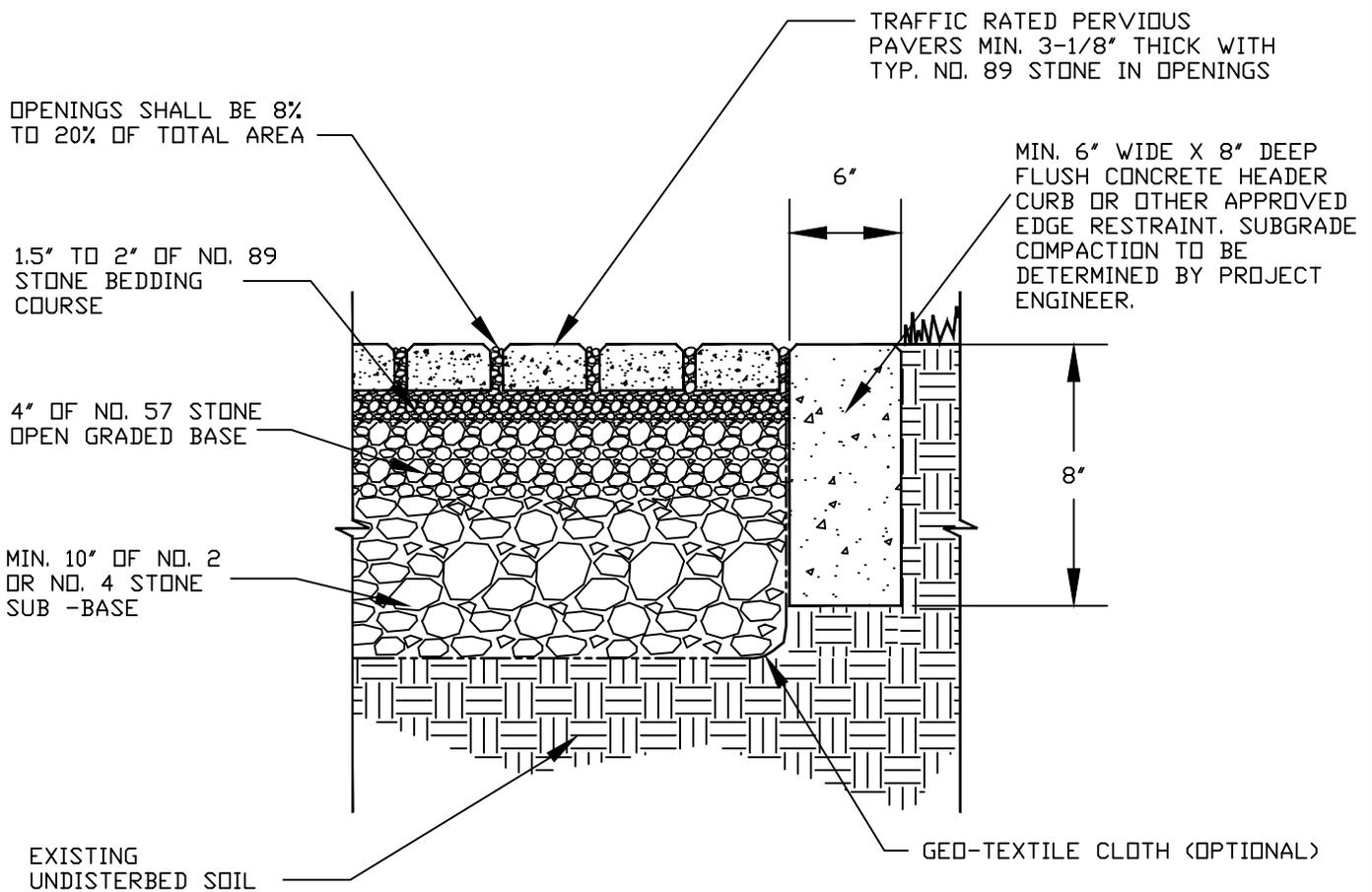
D17

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.
4. PAVER INSPECTION DURING INSTALLATION CAN BE COMPLETED UPON SCHEDULING. IF THE CONTRACTOR CHOOSES NOT TO REQUEST THE INSPECTION, A SURFACE INFILTRATION TEST ASTM 1781 SHALL BE REQUIRED.

STANDARD CONSTRUCTION DETAILS



PERVIOUS PAVERS FOR PARKING LOTS

PLATE NUMBER:

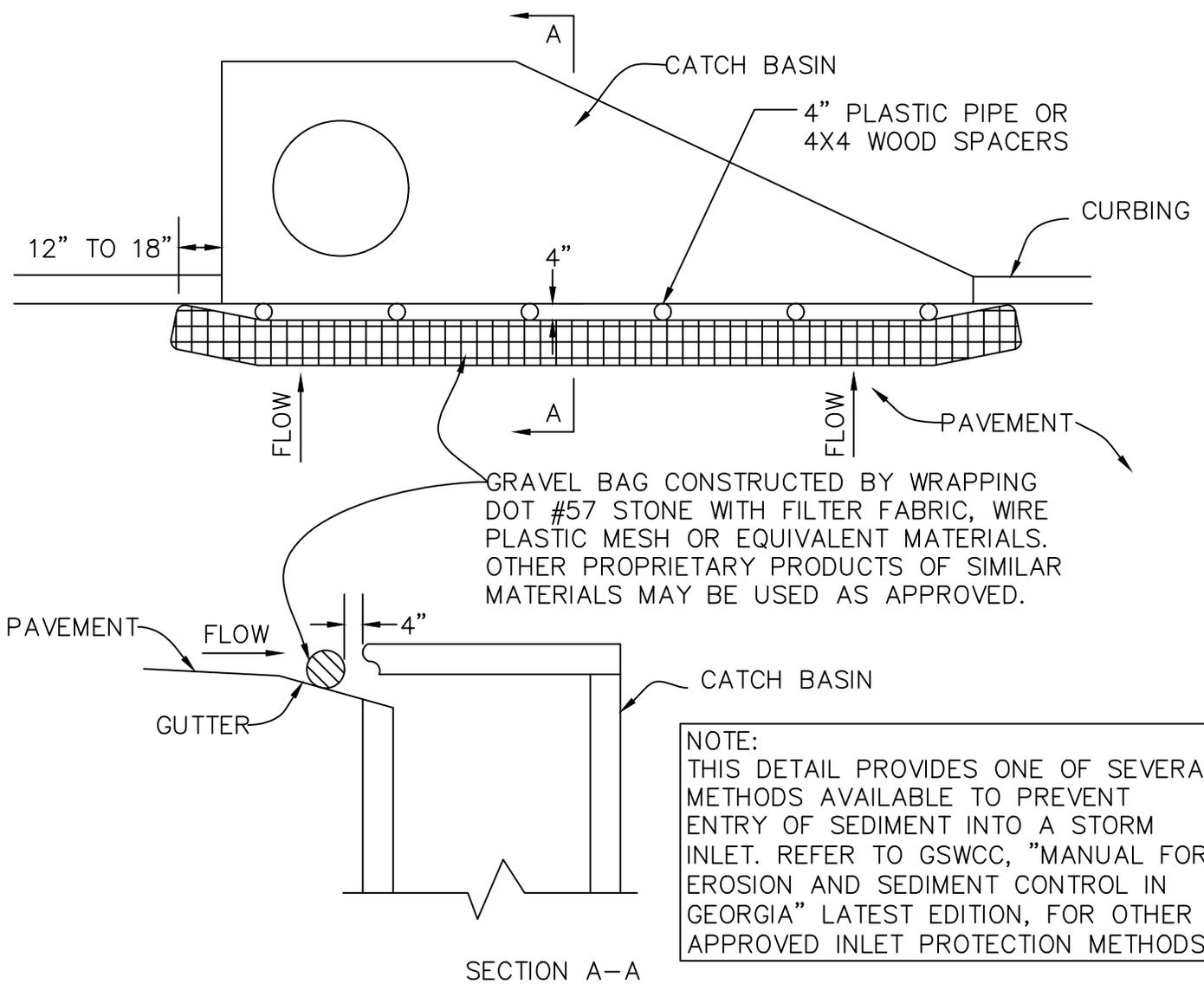
D18

APPROVED:

John M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: AUG 2022



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:

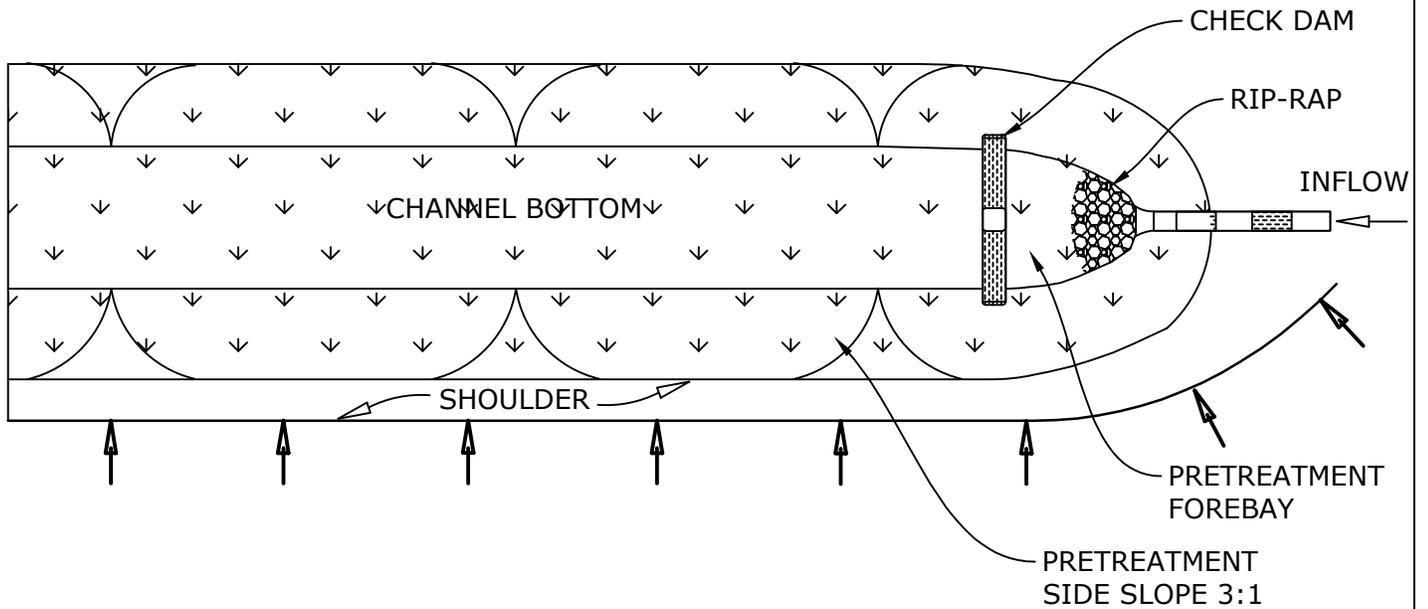
APPROVED:

Quinn M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

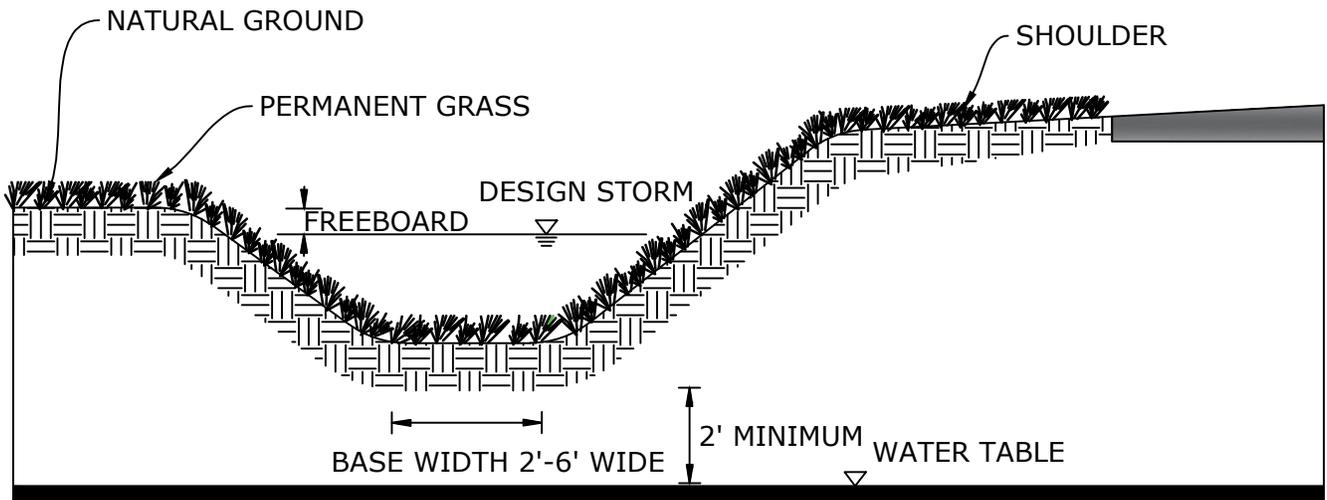
DATED: MARCH 2020

D19



MIN. INFILTRATION RATE:
0.25" PER HOUR

PLAN



PROFILE

STANDARD CONSTRUCTION
DETAILS



GRASS CHANNEL

PLATE NUMBER:

APPROVED:

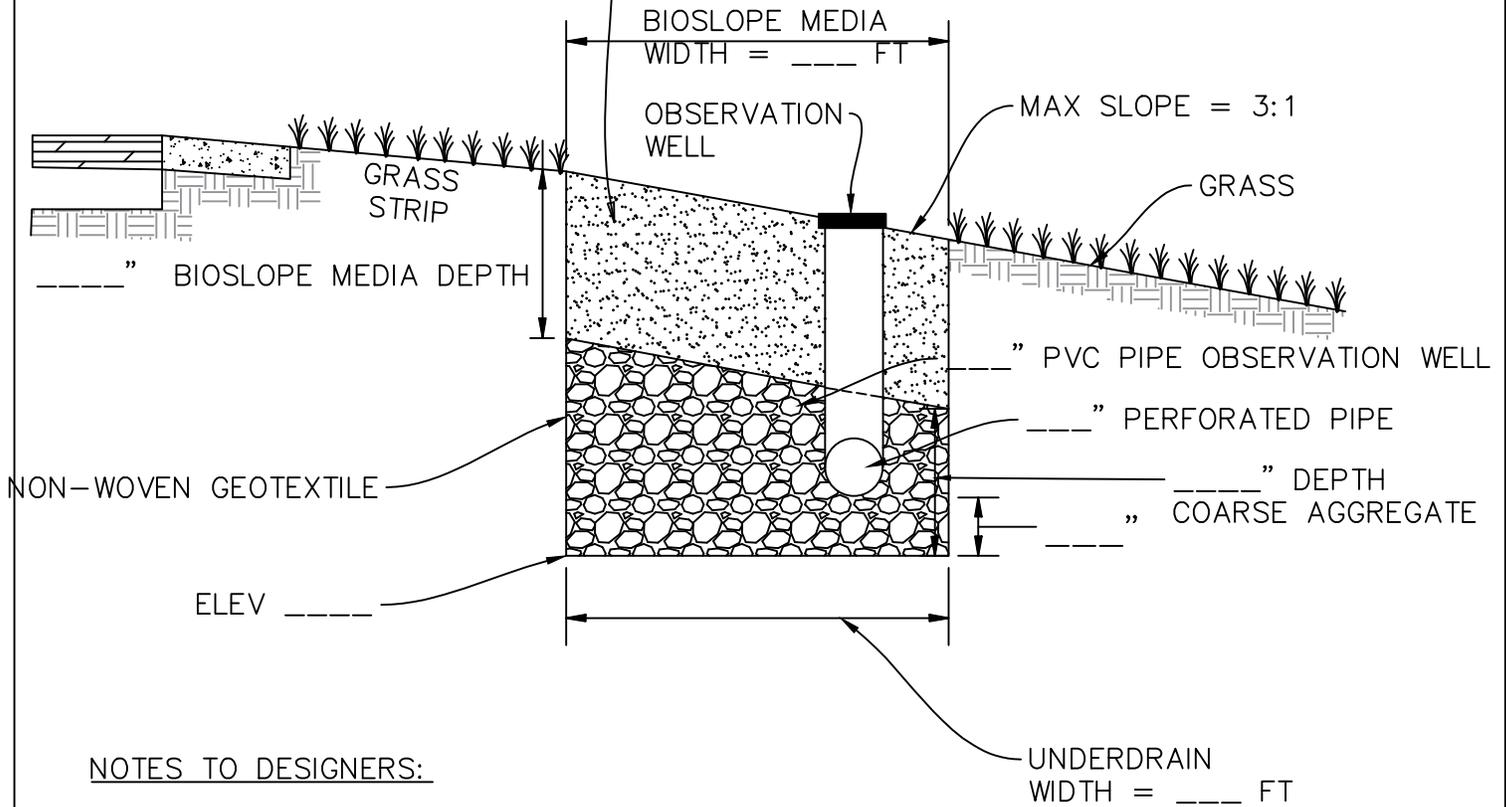
John M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

D20

PLATING MEDIA REQUIREMENTS:
 0.25" PER HOUR MIN.
 INFILTRATION RATE
 COMPOSITION:
 SAND - 85% TO 88% CLEAN
 WASHED
 TOP SOIL - 8% TO 12%
 ORGANIC MATTER - 3% TO 5%



NOTES TO DESIGNERS:

1. MAXIMUM SLOPE IS 3:1.
2. MINIMUM BIOSLOPE WIDTH IS 2'.
3. MINIMUM BIOSLOPE MEDIUM DEPTH IS 1',
4. MINIMUM WIDTH OF BOTTOM OF BIOSLOPE IS 2'.
5. MINIMUM DEPTH OF COARSE AGGREGATE IS 18".
6. MINIMUM DIAMETER OF PERFORATED UNDERDRAIN IS 6".
7. MINIMUM DISTANCE BETWEEN BOTTOM OF PRACTICE AND INVERT OF UNDERDRAIN PIPE IS 6".
8. MAXIMUM LONGITUDINAL SLOPE IS 5%.

BIOSLOPE
 TYPICAL SECTION
 N.T.S.

STANDARD CONSTRUCTION
 DETAILS



BIOSLOPE TYP. SECTION

PLATE NUMBER:

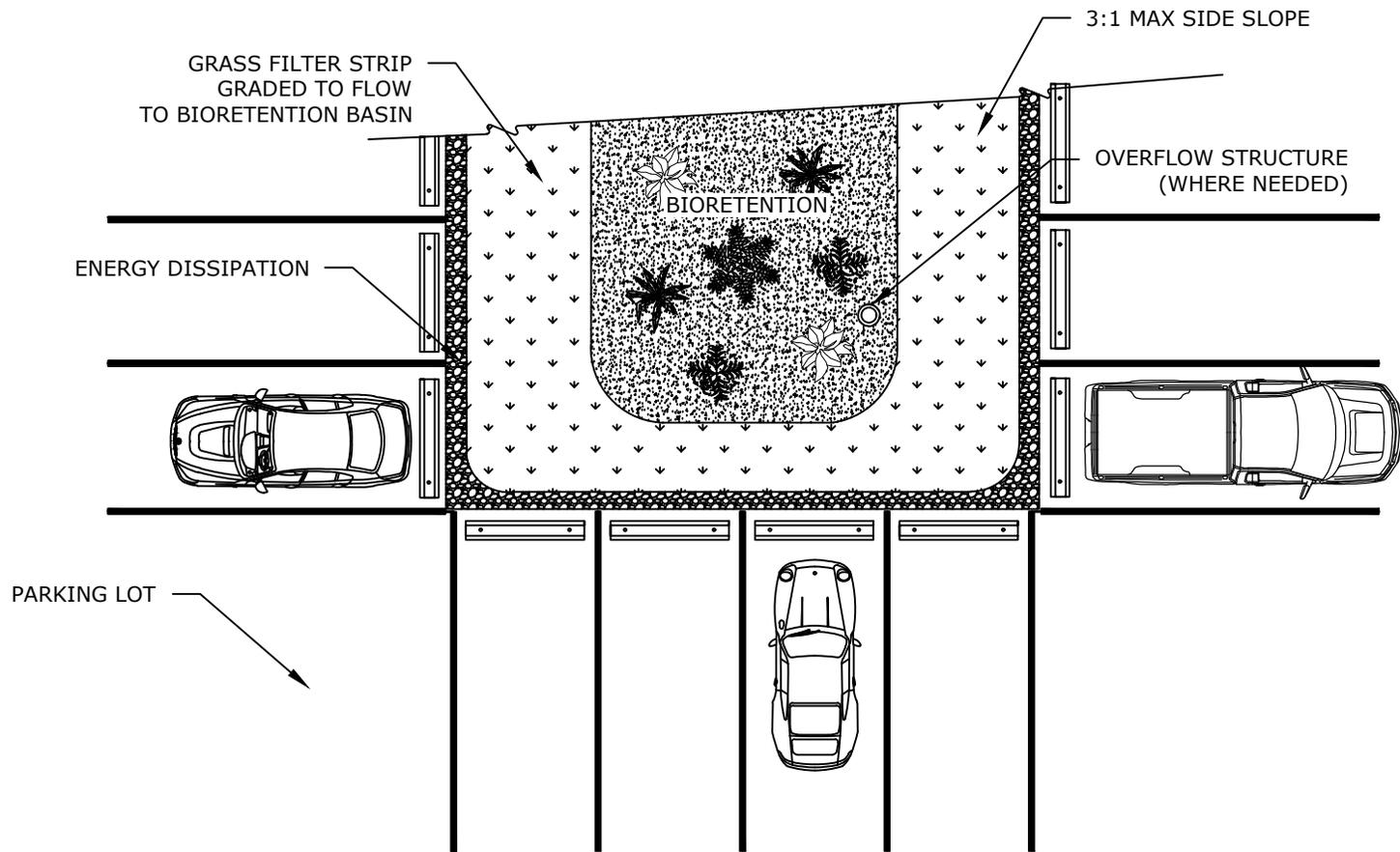
APPROVED:

[Signature]
 CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

D21



STANDARD CONSTRUCTION DETAILS



BIORETENTION PLAN VIEW

APPROVED:

Quinn Carter
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

PLATE NUMBER:

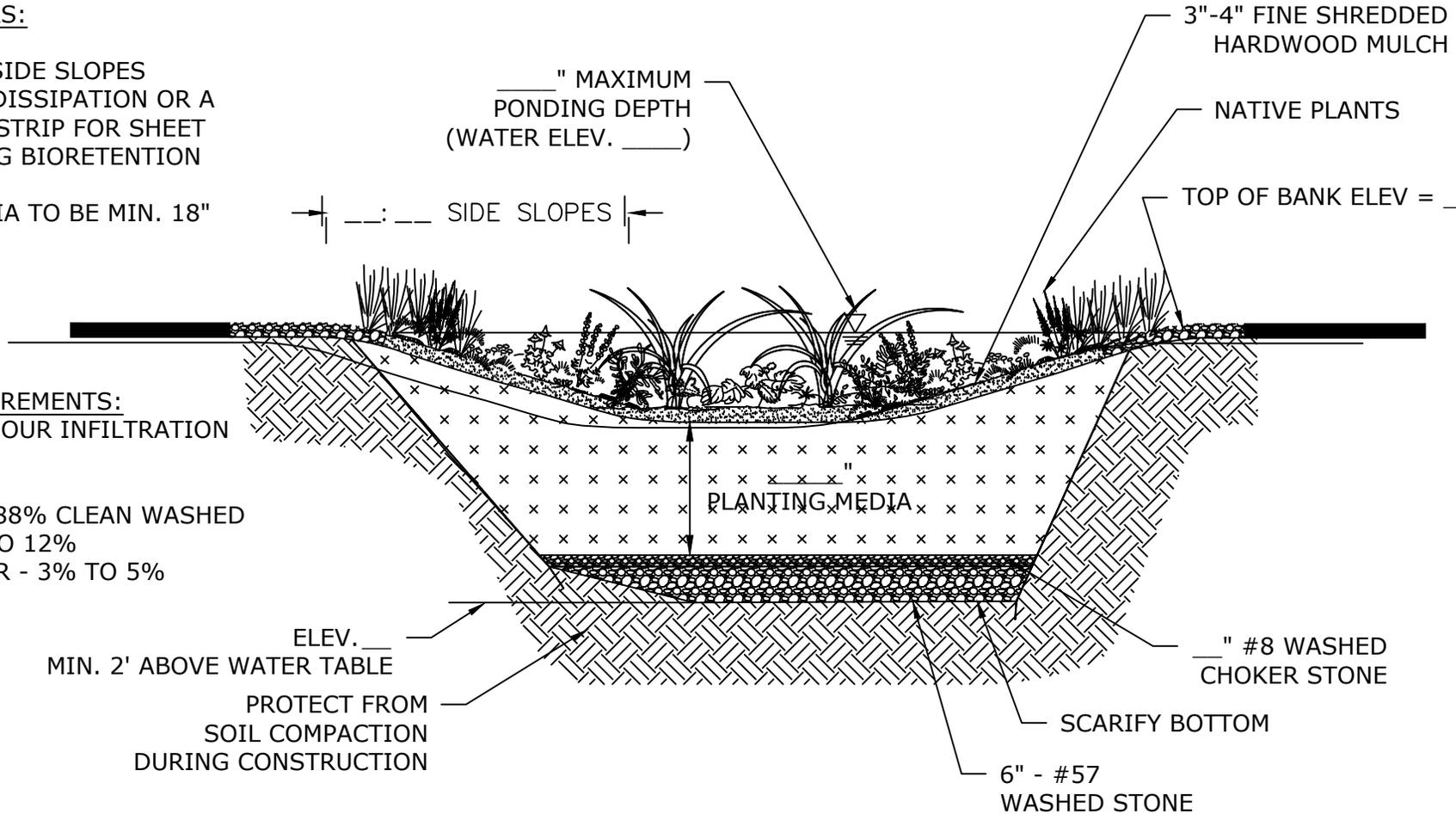
D22

NOTES TO DESIGNERS:

1. MAXIMUM 3:1 SIDE SLOPES
2. HAVE ENERGY DISSIPATION OR A GRASS FILTER STRIP FOR SHEET FLOW ENTERING BIORETENTION AREA
3. PLANTING MEDIA TO BE MIN. 18"

PLANTING MEDIA REQUIREMENTS:

1. MIN. 0.25" PER HOUR INFILTRATION RATE
2. COMPOSITION:
 SAND - 85% TO 88% CLEAN WASHED
 TOP SOIL - 8% TO 12%
 ORGANIC MATTER - 3% TO 5%



STANDARD CONSTRUCTION
DETAILS



BIORETENTION WITHOUT UNDERDRAIN

PLATE NUMBER:

APPROVED:

Quinn M. Lester
CITY ENGINEER

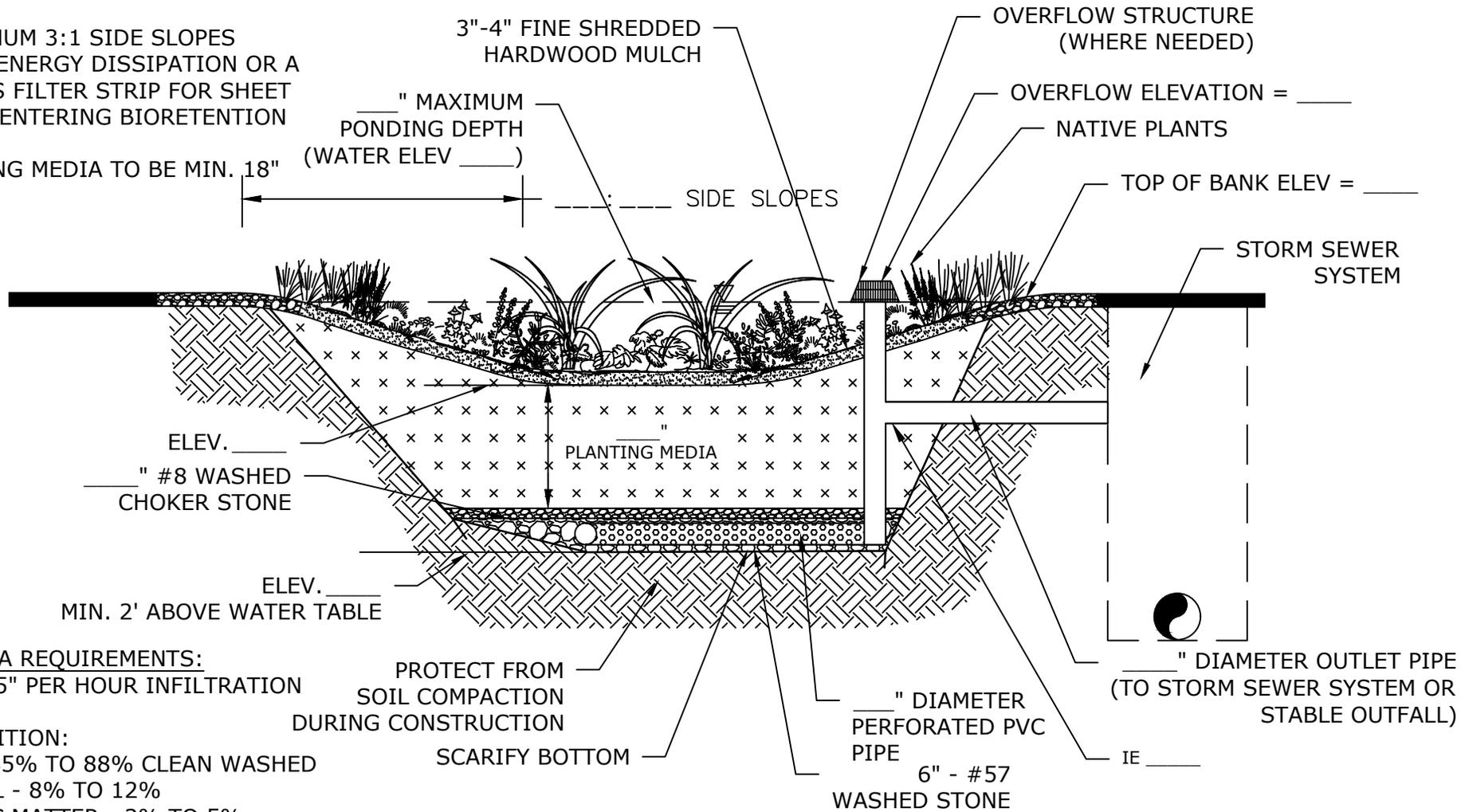
SCALE: N.T.S.

DATED: NOV 2021

D23A

NOTES TO DESIGNERS:

1. MAXIMUM 3:1 SIDE SLOPES
2. HAVE ENERGY DISSIPATION OR A GRASS FILTER STRIP FOR SHEET FLOW ENTERING BIORETENTION AREA
3. PLATING MEDIA TO BE MIN. 18"



PLATING MEDIA REQUIREMENTS:

1. MIN. 0.25" PER HOUR INFILTRATION RATE
2. COMPOSITION:
 SAND - 85% TO 88% CLEAN WASHED
 TOP SOIL - 8% TO 12%
 ORGANIC MATTER - 3% TO 5%

STANDARD CONSTRUCTION DETAILS



BIORETENTION WITH UPTURNED UNDERDRAIN

PLATE NUMBER:

APPROVED:

Quinn M. [Signature]
CITY ENGINEER

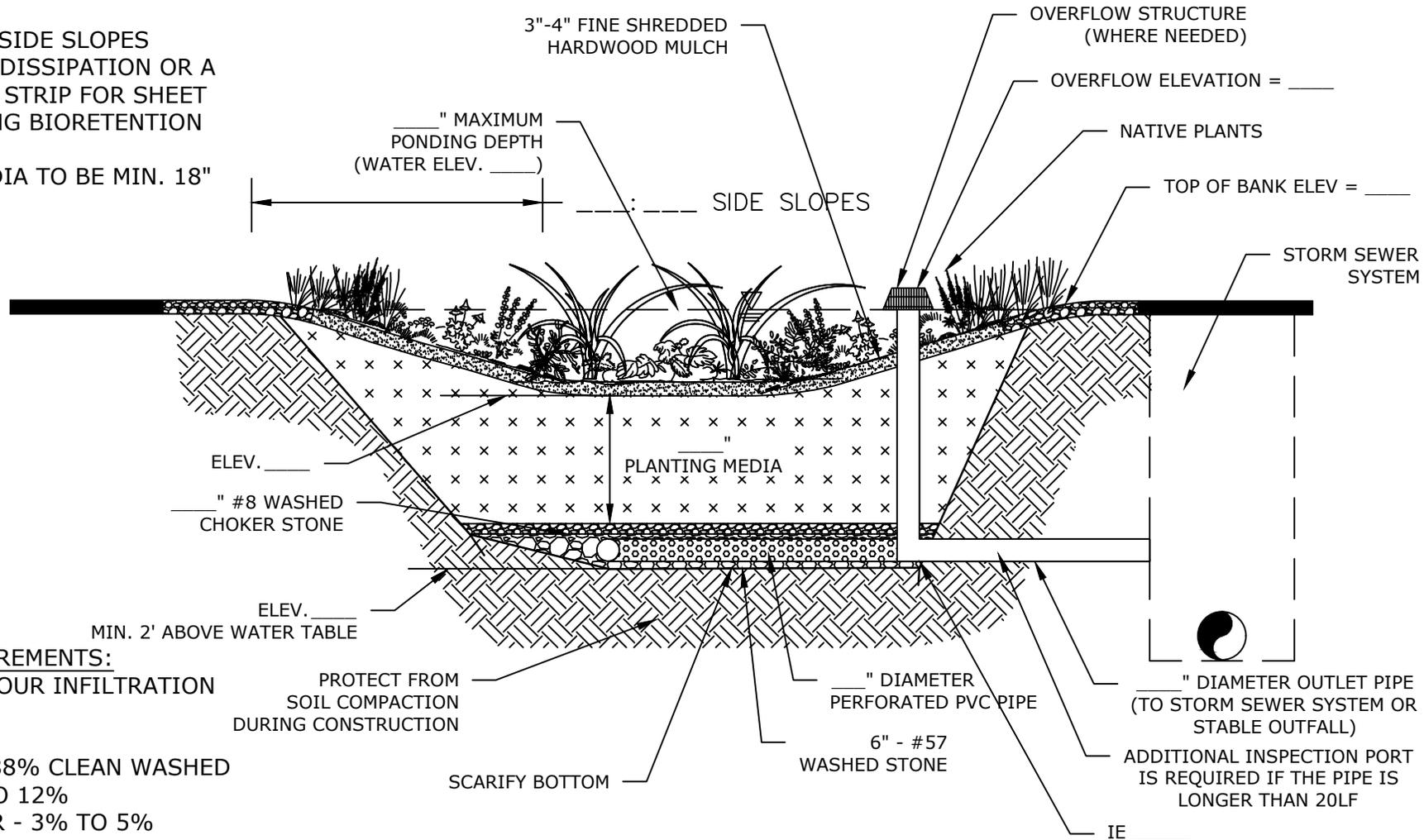
SCALE: N.T.S.

DATED: NOV 2021

D23B

NOTES TO DESIGNERS:

1. MAXIMUM 3:1 SIDE SLOPES
2. HAVE ENERGY DISSIPATION OR A GRASS FILTER STRIP FOR SHEET FLOW ENTERING BIORETENTION AREA
3. PLANTING MEDIA TO BE MIN. 18"



PLANTING MEDIA REQUIREMENTS:

1. MIN. 0.25" PER HOUR INFILTRATION RATE
2. COMPOSITION:
 SAND - 85% TO 88% CLEAN WASHED
 TOP SOIL - 8% TO 12%
 ORGANIC MATTER - 3% TO 5%

STANDARD CONSTRUCTION
DETAILS



BIORETENTION WITH UNDERDRAIN

APPROVED:

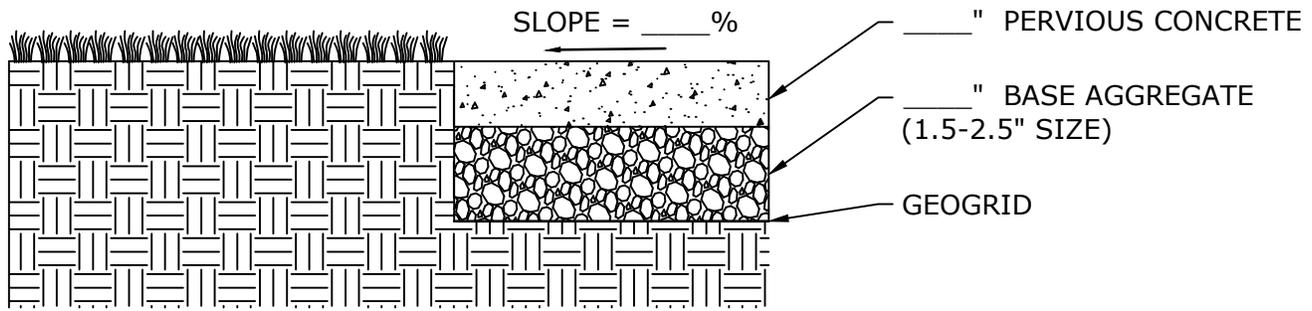
John M. Lester
CITY ENGINEER

SCALE: N.T.S.

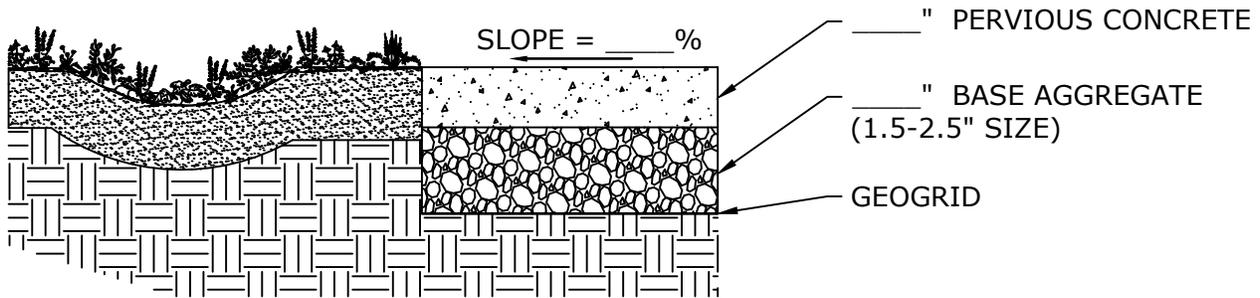
DATED: NOV 2021

PLATE NUMBER:

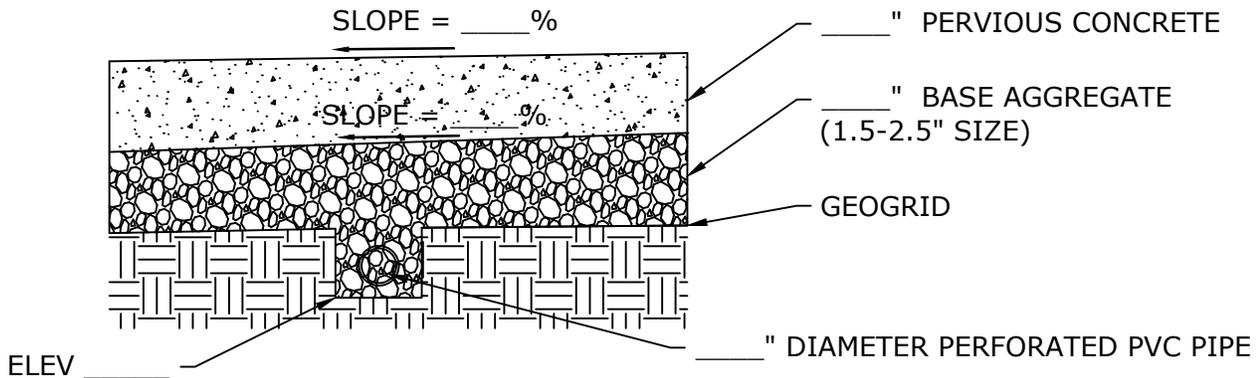
D23C



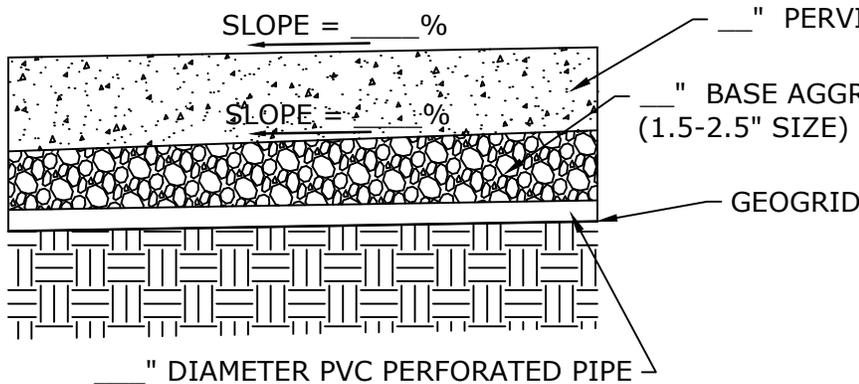
PERVIOUS CONCRETE TYPICAL INSTALLATION



PERVIOUS CONCRETE WITH BIOSWALE OUTLET



PERVIOUS CONCRETE WITH TRENCH OUTLET



PERVIOUS CONCRETE WITH UNDERDRAIN SYSTEM

NOTES TO DESIGNERS

1. MINIMUM BASE THICKNESS IS 12".
2. USE GEOGRID AS NEEDED FOR DESIGN.
3. PERVIOUS CONCRETE SHOULD BE BETWEEN 6 AND 15 INCHES.
4. MAXIMUM SLOPE IS 5%.
5. MIN. TRENCH WIDTH IS 18".
6. MIN. 4" DIAMETER FOR PERFORATED PVC PIPE.

STANDARD CONSTRUCTION
DETAILS



PERVIOUS CONCRETE

PLATE NUMBER:

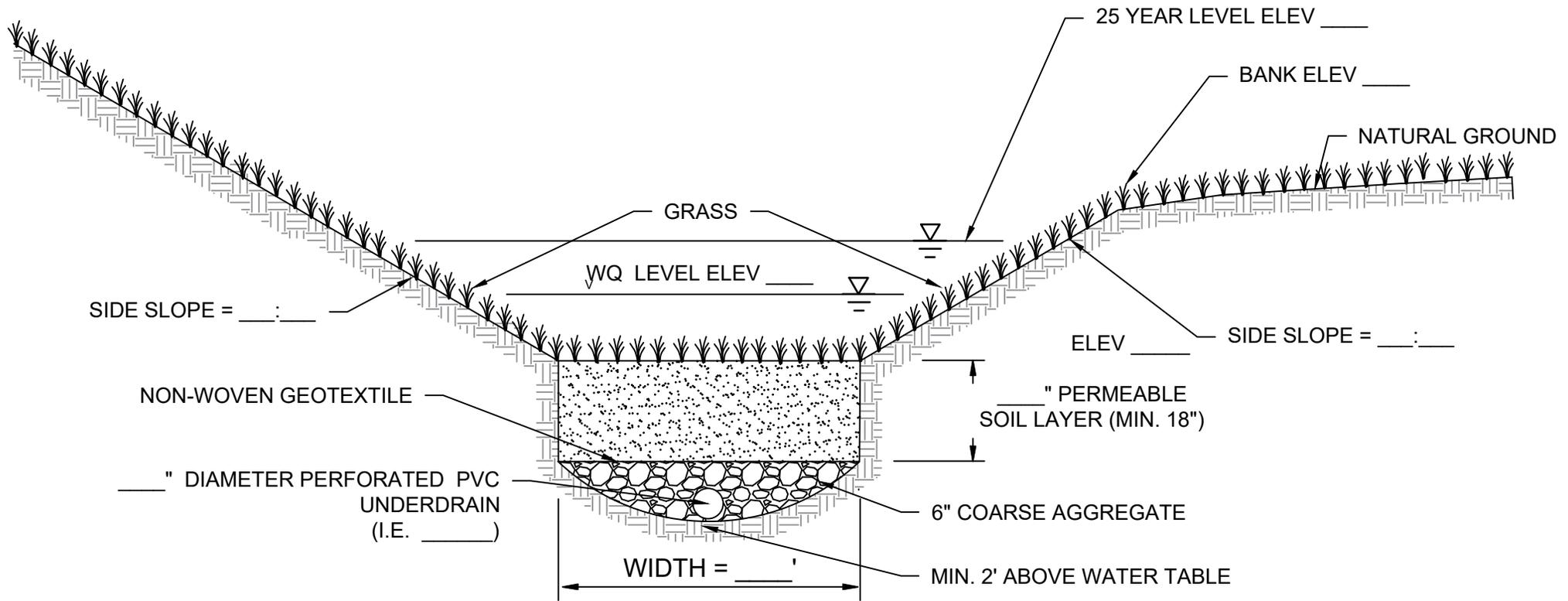
D24

APPROVED:

Quinn M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021



NOTES TO DESIGNERS:

1. LONGITUDINAL SLOPE MUST BE <4%.
2. MIN. 6" FREEBOARD ABOVE 25-YR STORM WATER SURFACE ELEVATION
3. MAXIMUM SIDE SLOPE IS 2:1.
4. WIDTH SHOULD BE BETWEEN 2' AND 8'.
5. MAXIMUM WQ_v PONDING DEPTH IS 18".

PERMEABLE SOIL REQUIREMENTS.

1. 0.25 PER HOUR MIN. INFILTRATION RATE.
2. COMPOSITION
 - SAND - 85% TO 88% CLEAN WASHED
 - TOP SOIL - 8% TO 12%
 - ORGANIC MATTER - 3% TO 5%

STANDARD CONSTRUCTION DETAILS



DRY ENHANCED SWALE TYP. SECTION

PLATE NUMBER:

APPROVED:

John M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

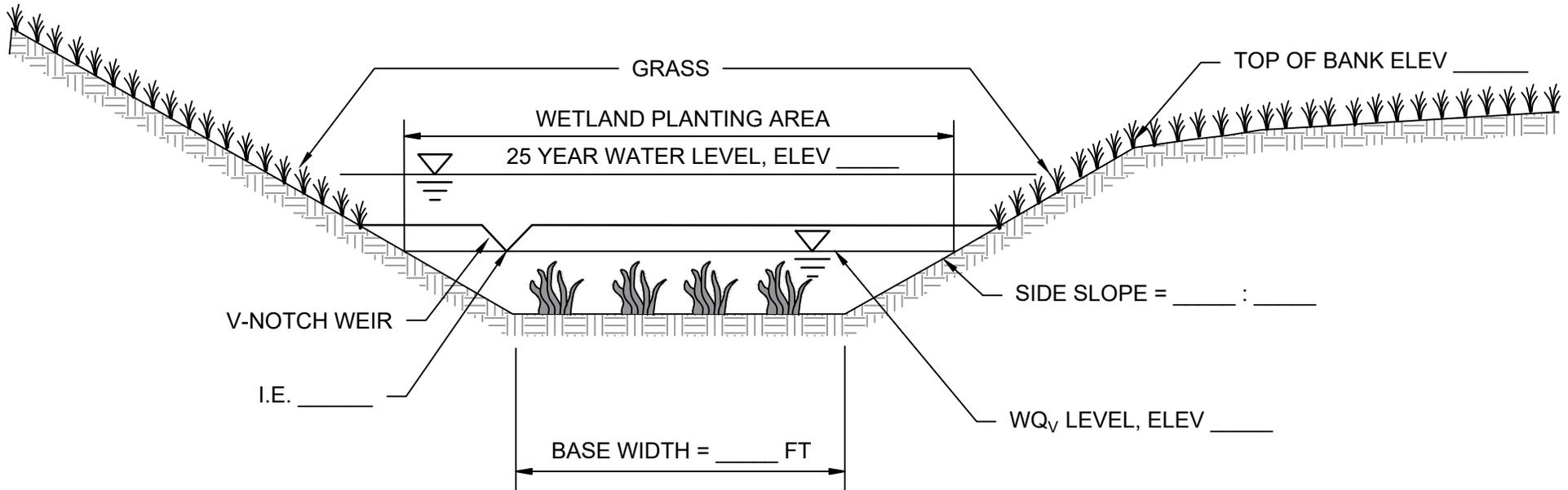
D25

NOTES TO DESIGNERS:

1. MIN. 6" FREEBOARD ABOVE 25-YR STORM WATER SURFACE ELEVATION.
2. MAXIMUM SIDE SLOPE IS 2:1.
3. BASE WIDTH SHOULD BE BETWEEN 2' AND 8'.
4. MAX WQ_v PONDING DEPTH IS 18".

PLATING REQUIREMENTS:

SEE GEORGIA STORMWATER MANAGEMENT MANUAL APPENDIX D FOR DETAILS.



STANDARD CONSTRUCTION
DETAILS



WET ENHANCED SWALE TYP. SECTION

PLATE NUMBER:

APPROVED:

John M. Lester
CITY ENGINEER

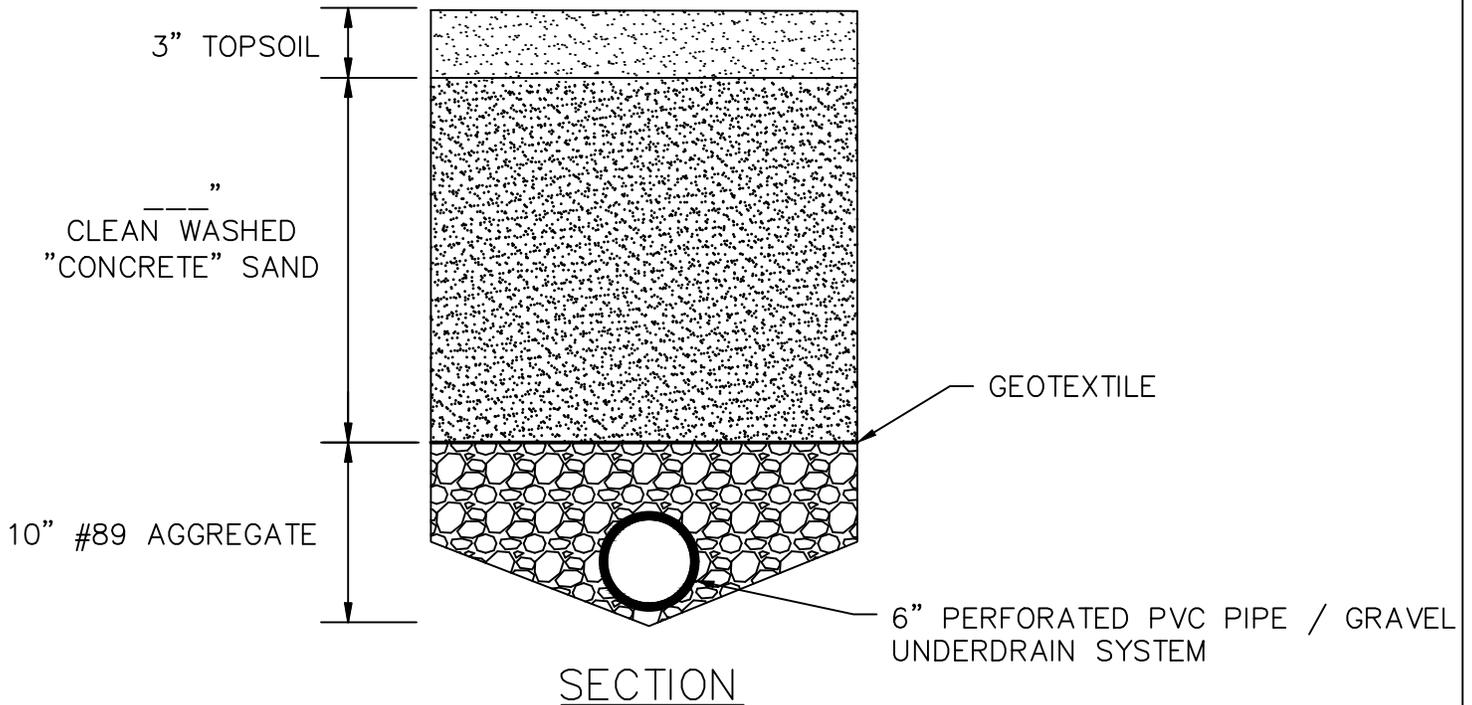
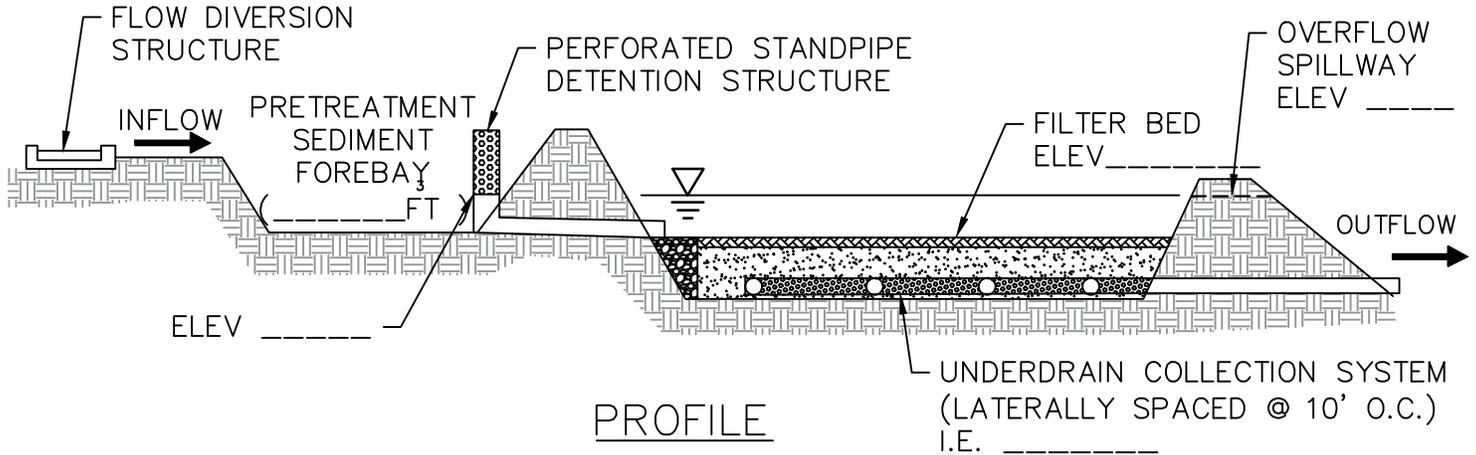
SCALE: N.T.S.

DATED: NOV 2021

D26

NOTES TO DESIGNERS:

1. SAND DEPTH SHOULD BE MINIMUM OF 18".



STANDARD CONSTRUCTION
DETAILS



SAND FILTER

PLATE NUMBER:

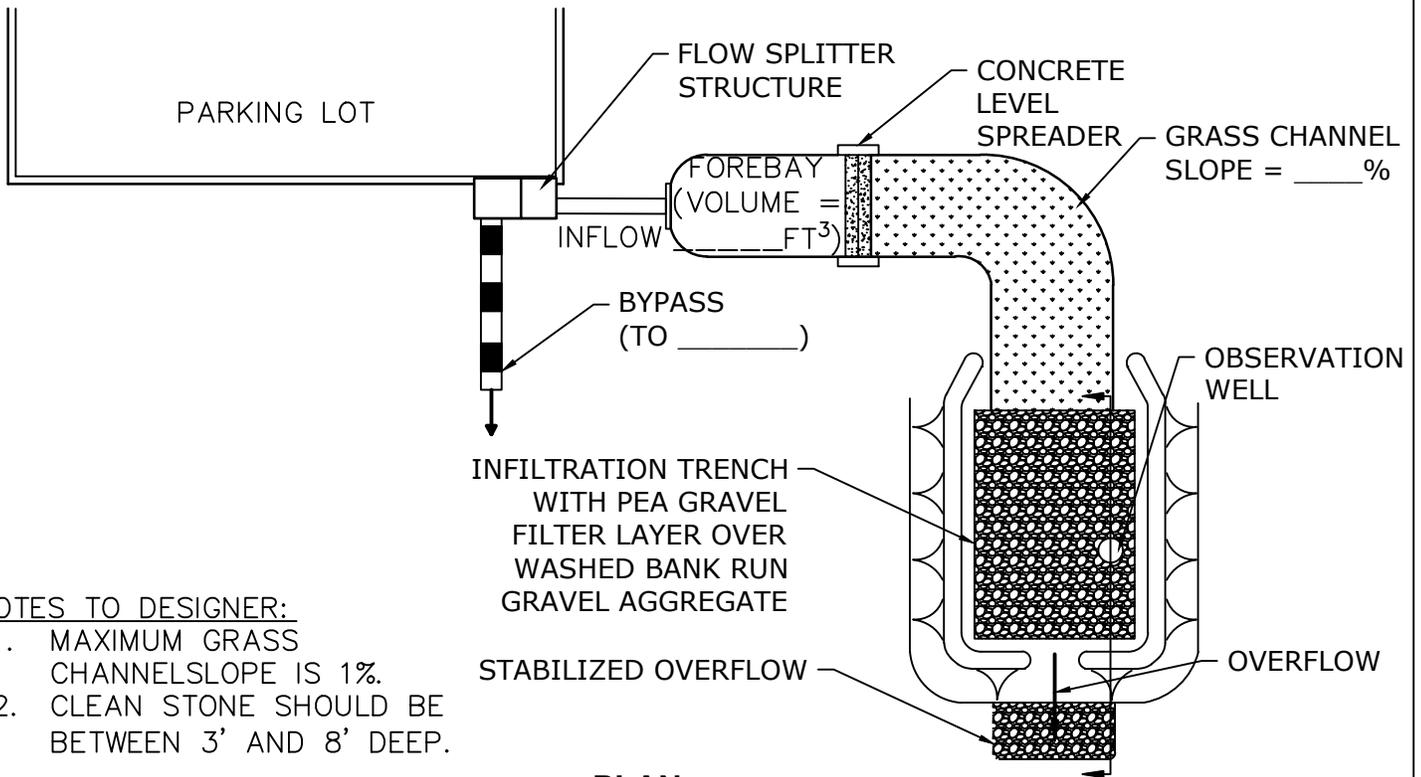
APPROVED:

John M. [Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

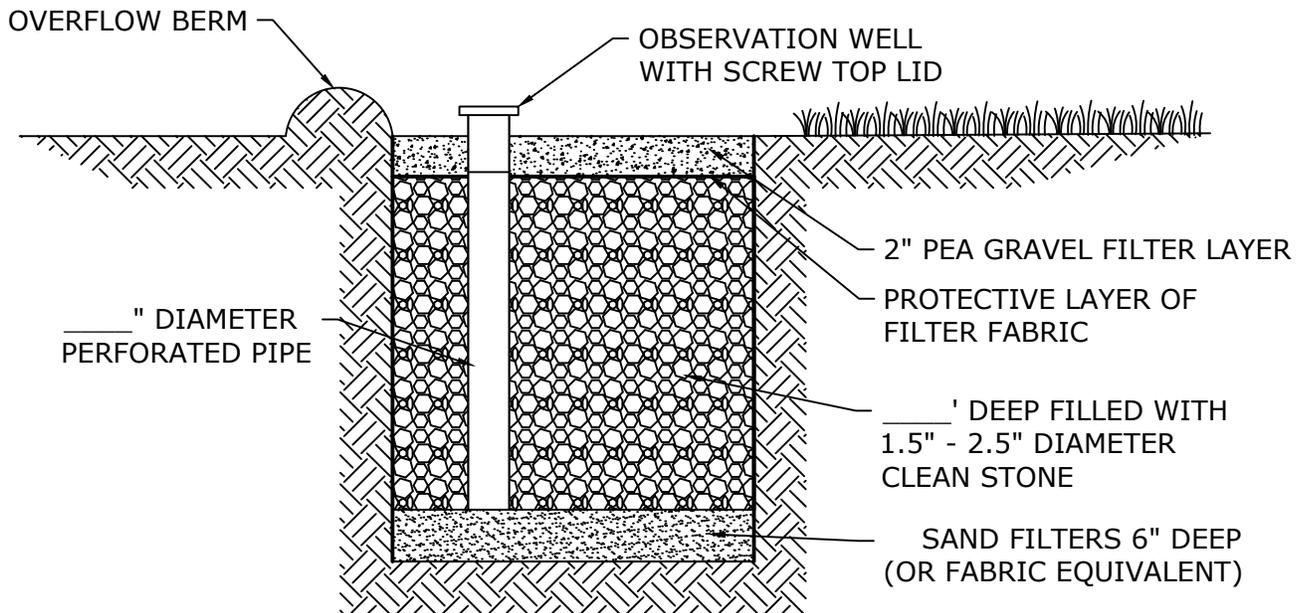
D27



NOTES TO DESIGNER:

1. MAXIMUM GRASS CHANNELSLOPE IS 1%.
2. CLEAN STONE SHOULD BE BETWEEN 3' AND 8' DEEP.

PLAN



SECTION

STANDARD CONSTRUCTION
DETAILS



INFILTRATION PRACTICE

PLATE NUMBER:

APPROVED:

John M. [Signature]
CITY ENGINEER

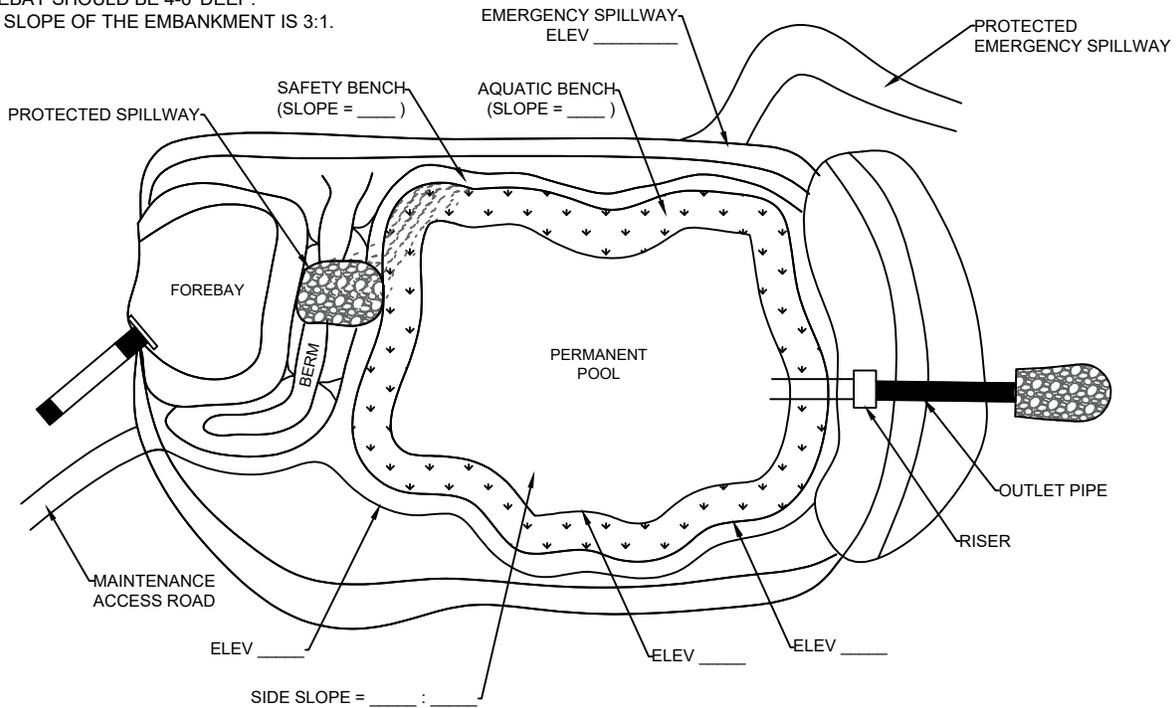
SCALE: N.T.S.

DATED: NOV 2021

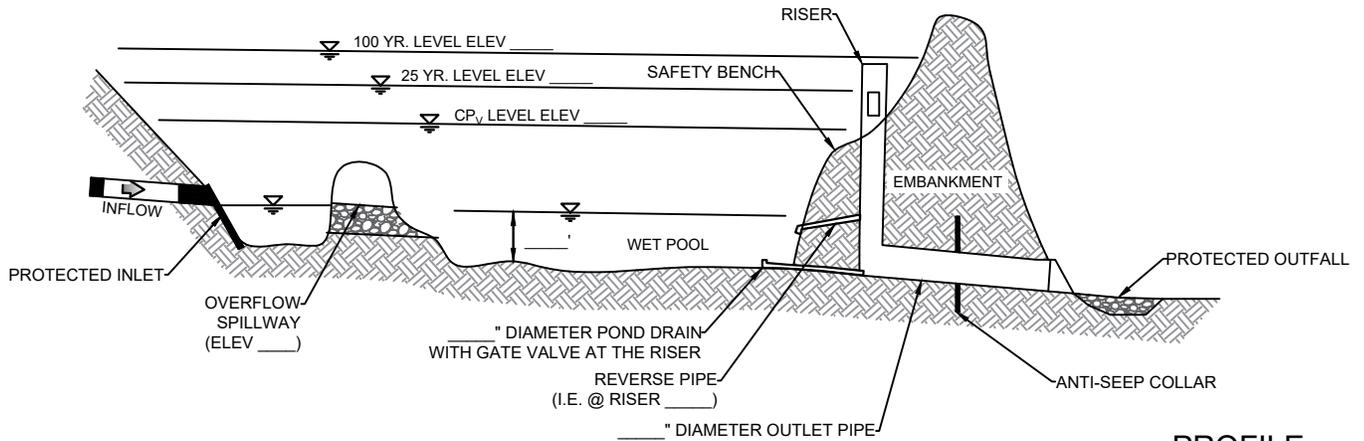
D28

NOTES TO DESIGNERS:

1. PROVIDE A MINIMUM OF 1.0' OF FREEBOARD BETWEEN EMERGENCY SPILLWAY AND TOP OF EMBANKMENT.
2. PROVIDE A MINIMUM OF 0.1' BETWEEN 100 YR. LEVEL AND EMERGENCY SPILLWAY.
3. MIN. LENGTH-TO-WIDTH RATIO FOR PERMANENT POOL IS 1.5:1.
4. MIN. PERMANENT POND DEPTH IS 3' AND MAX IS 8'.
5. MAX. SIDE SLOPE IS 3:1.
6. MAX. SLOPE OF SAFETY BENCH IS 6%.
7. FOREBAY SHOULD BE 4-6' DEEP.
8. MAX SLOPE OF THE EMBANKMENT IS 3:1.



PLAN



PROFILE

**STANDARD CONSTRUCTION
DETAILS**



WET DETENTION POND

PLATE NUMBER:

APPROVED:

Quinn M. [Signature]
CITY ENGINEER

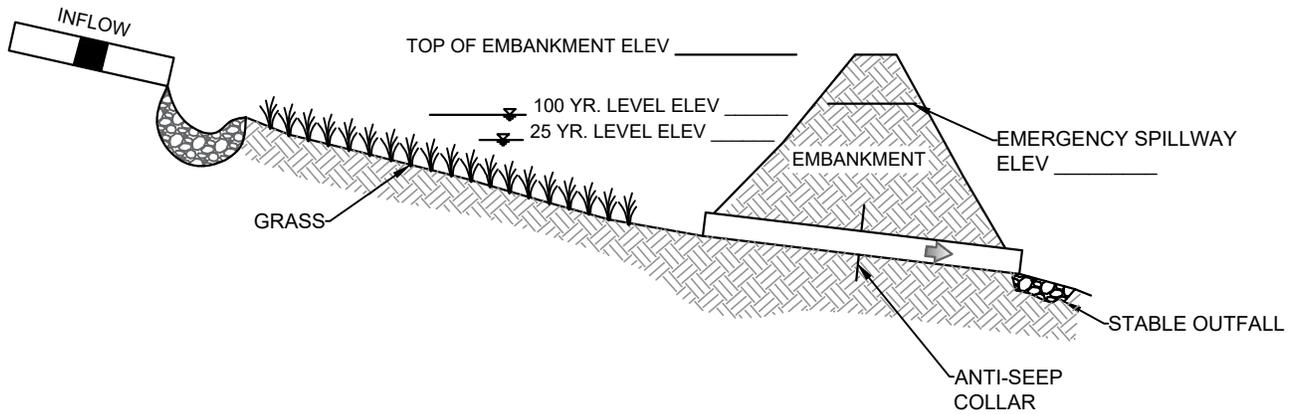
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DATED: NOV 2021

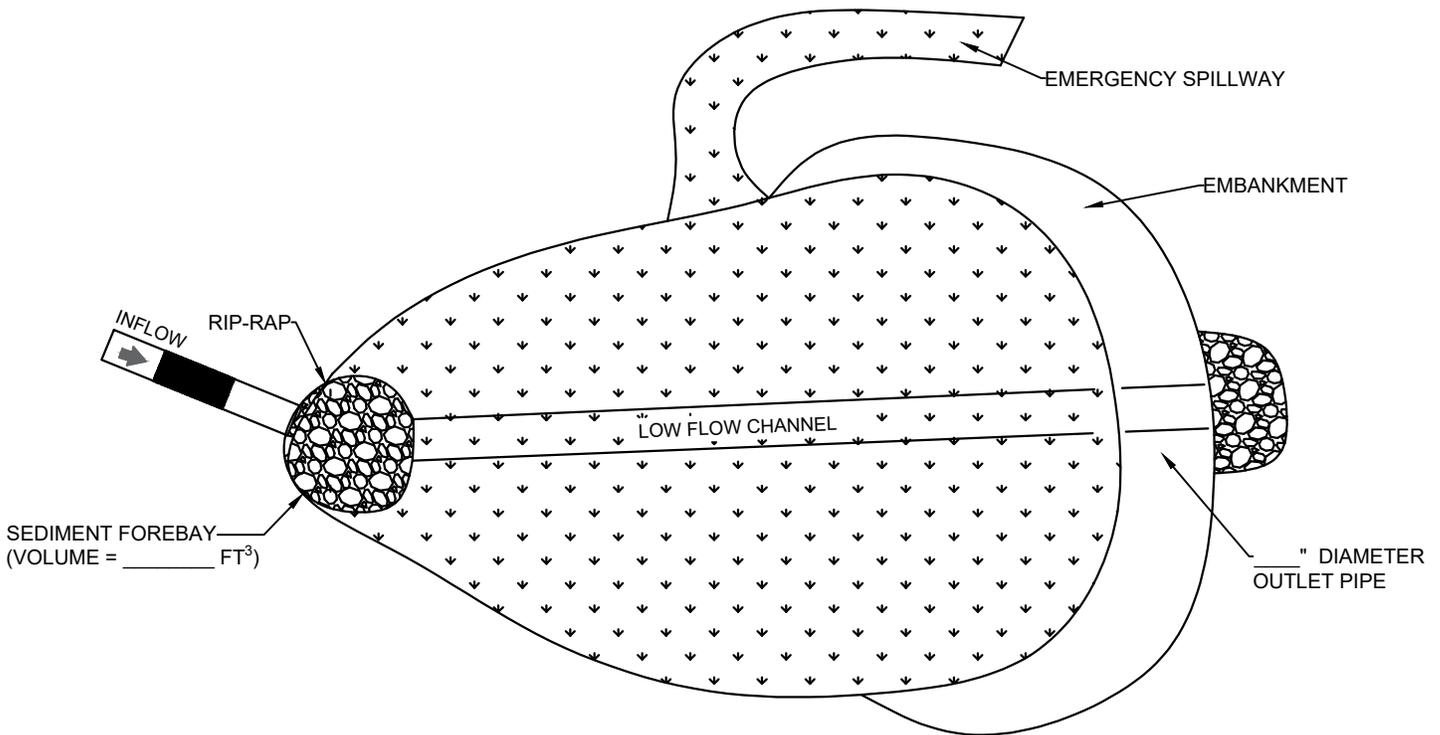
D29

NOTES TO DESIGNERS

1. PROVIDE A MINIMUM OF 1.0' OF FREEBOARD BETWEEN EMERGENCY SPILLWAY AND TOP OF EMBANKMENT.
2. PROVIDE A MINIMUM OF 0.1' BETWEEN 100 YR. LEVEL AND EMERGENCY SPILLWAY.



PROFILE



PLAN

**STANDARD CONSTRUCTION
DETAILS**



DRY DETENTION POND

PLATE NUMBER:

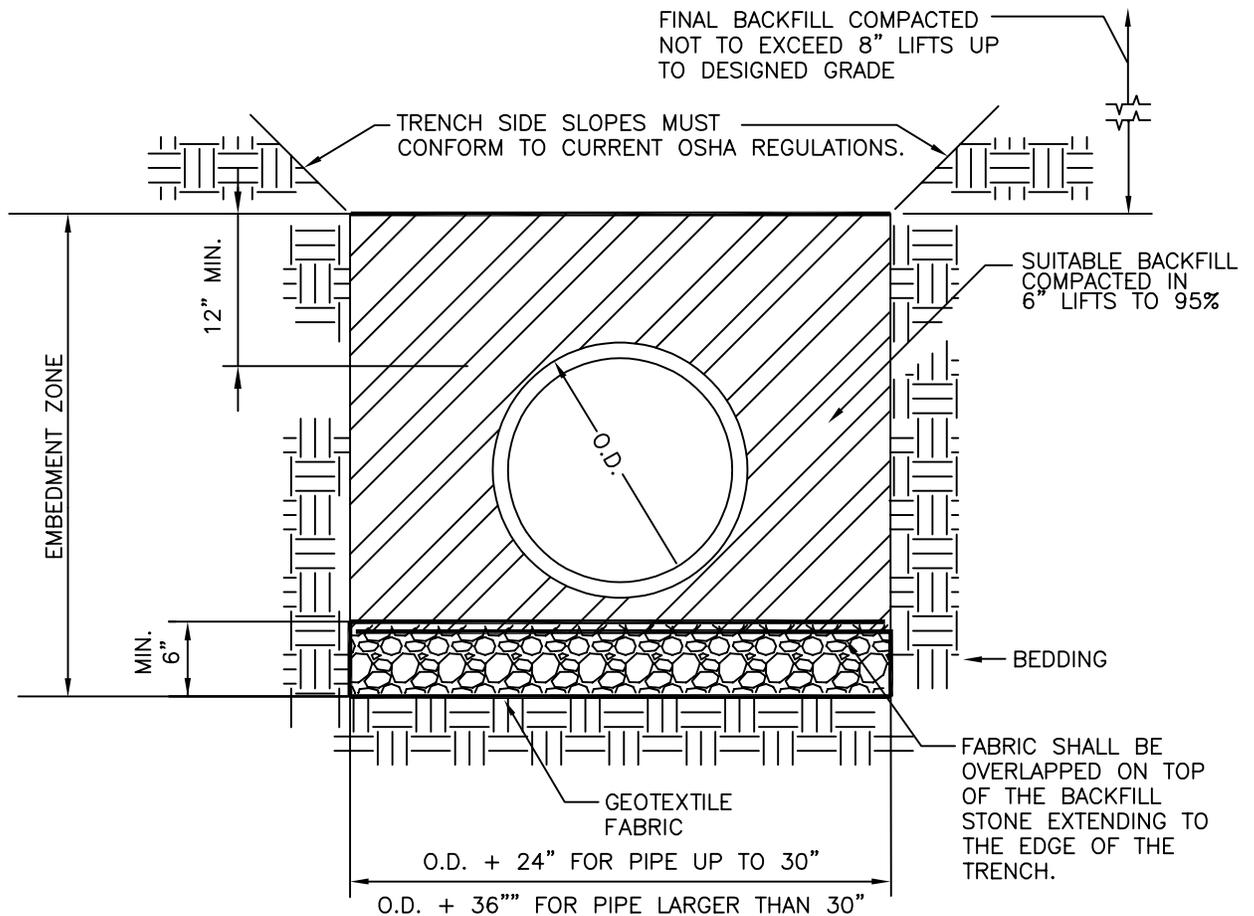
APPROVED:

[Signature]
CITY ENGINEER

SCALE: N.T.S.

DATED: NOV 2021

D30



NOTES:

1. STONE BEDDING SHALL BE USED WHERE THE SUB-GRADE SOIL OF THE PIPE TRENCH, IN THE ENGINEER'S OPINION, IS FOUND TO BE UNSUITABLE. THE USAGE OF STONE BEDDING MUST BE APPROVED BY THE ENGINEER AND OWNER.
2. SEE CITY OF SAVANNAH STANDARD SPECIFICATIONS SECTION 02440 PART 2 FOR MORE DETAILS.

STANDARD STORM RIGID PIPE BEDDING DETAIL

STANDARD
CONSTRUCTION
DETAILS



CITY OF
savannah
WATER RESOURCES AND PUBLIC WORKS BUREAU
Planning & Engineering

SCALE: N.T.S.

DATED: APR 2023

PLATE NUMBER:

D31