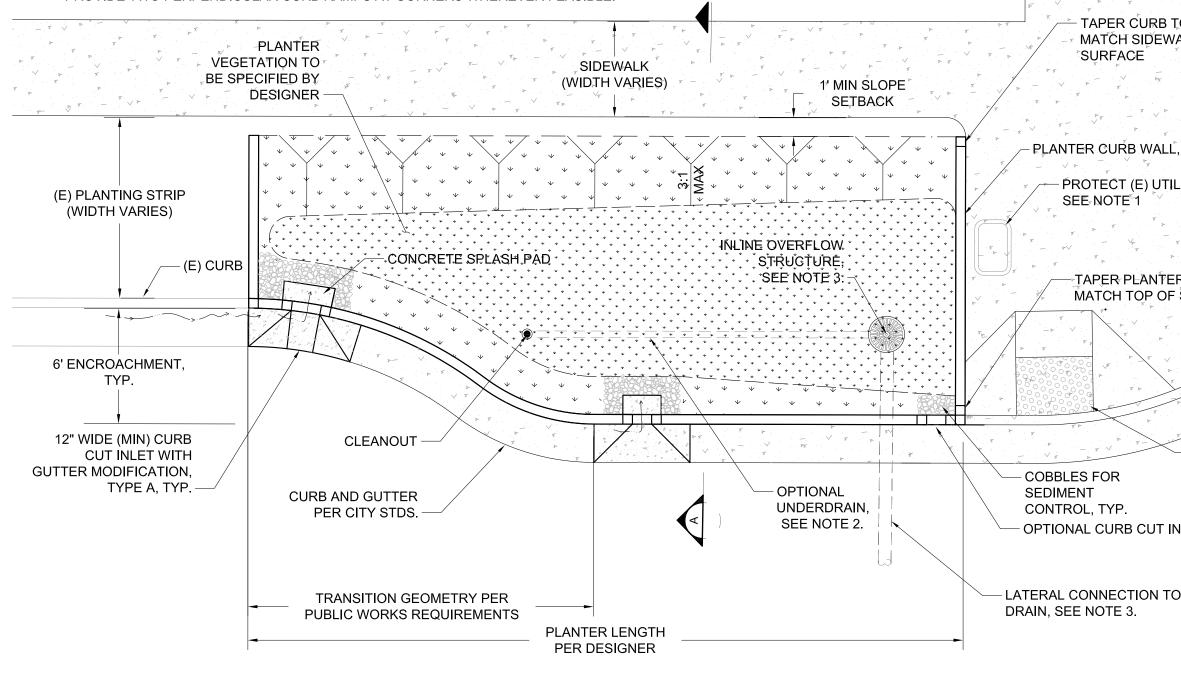
## NOTES:

- 1. PROTECT EXISTING UTILITIES AND MAINTAIN MINIMUM SETBACKS AS REQUIRED BY LOCAL UTILITY PROVIDER.
- 2. PROVIDE UNDERDRAIN WHERE REQUIRED TO MEET THE MINIMUM SURFACE WATER DRAWDOWN TIME. LONGITUDINAL SLOPE OF PIPE SHALL BE 0.5% MINIMUM.
- 3. DESIGNER TO SPECIFY OVERFLOW STRUCTURE SIZE AND MATERIAL. WHERE FEASIBLE, CONNECT TO THE EXISTING STORM DRAIN LATERAL SERVING THE CORNER CATCH BASIN BEING REMOVED, IF ANY.
- 4. ADHERE TO ALL LOCAL AND FEDERAL ACCESSIBILITY REQUIREMENTS FOR THE SIDEWALK AND CURB RAMP DESIGNS. PROVIDE TWO PERPENDICULAR CURB RAMPS AT CORNERS WHEREVER FEASIBLE.

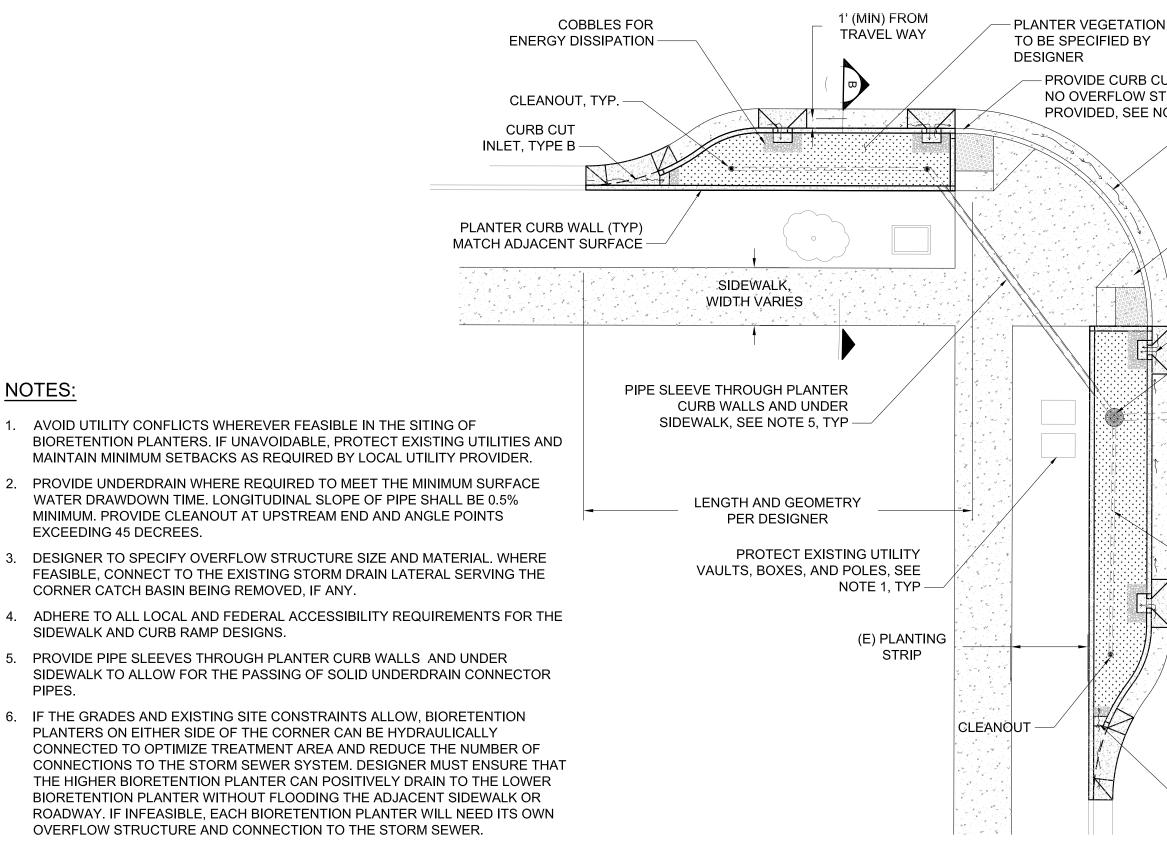


BASMAA URBAN GREENING TYPICAL GI DETAILS **BULBOUT ALTERNATIVE 1** 

SLOPED SIDES, INLINE OVERFLOW STRUCTURE, CURB CUT INLET TYPE A

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	SCALE: 1"=5'		DATE : APRIL 14, 201	7
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	CHECKED BY:		C-1.1	

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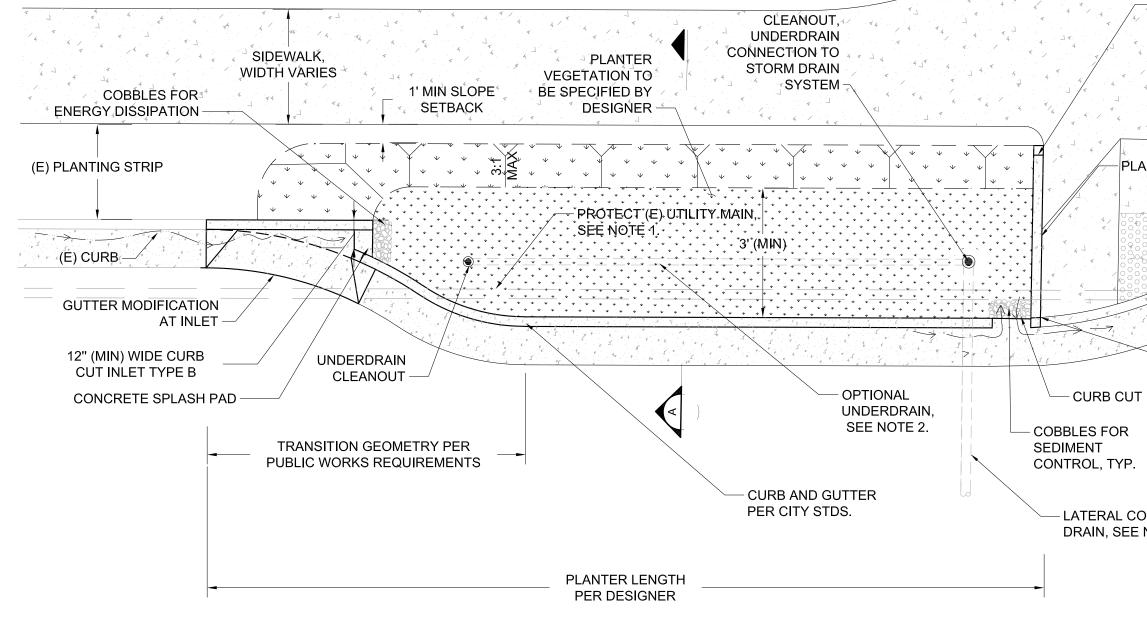
# BASMAA URBAN GREENING TYPICAL GI DETAILS **BULBOUT ALTERNATIVE 2**

WALLED BIORETENTION ON BOTH SIDES OF CORNER, CURB CUT INLETS TYPE A

CUT OUTLET II STRUCTURE IS NOTE 6.	3	
DRAI	VIDE POSITIVE NAGE AROUND CORN NOTE 6.	IER,
	URB RAMP PER CODE EQUIREMENTS, SEE N	
	– CURB CUT INLET WI MODIFICATION, TYP	
	VERFLOW STRUCTUR	Ξ,
	LATERAL CO DRAIN, SEE	NNECTION TO STORM NOTE 3.
	TIONAL IDERDRAIN, E NOTE 2, TYP	
CONC. S PAD, TY		
	SCALE: 1"=10'	DATE : APRIL 14, 2017
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### NOTES:

- 1. AVOID UTILITY CONFLICTS WHENEVER POSSIBLE IN THE SITING OF BIORETENTION PLANTERS. IF UNAVOIDABLE, PROTECT EXISTING UTILITIES AND MAINTAIN MINIMUM SETBACKS AS REQUIRED BY LOCAL UTILITY PROVIDER.
- 2. PROVIDE UNDERDRAIN WHERE REQUIRED TO MEET THE MINIMUM SURFACE WATER DRAWDOWN TIME. LONGITUDINAL SLOPE OF PIPE SHALL BE 0.5% MINIMUM.
- 3. FOR OFFLINE FACILITIES IN WHICH UNDERDRAINS ARE REQUIRED, DESIGNER TO SPECIFY WHETHER UNDERDRAIN PIPE WILL DIRECTLY CONNECT TO STORM DRAIN MAIN OR TO NEARBY CATCH BASIN STRUCTURE TO MEET CITY REQUIREMENTS.
- 4. ADHERE TO ALL LOCAL AND FEDERAL ACCESSIBILITY REQUIREMENTS FOR THE SIDEWALK AND CURB RAMP DESIGNS. PROVIDE TWO PERPENDICULAR CURB RAMPS AT CORNERS WHEREVER FEASIBLE.



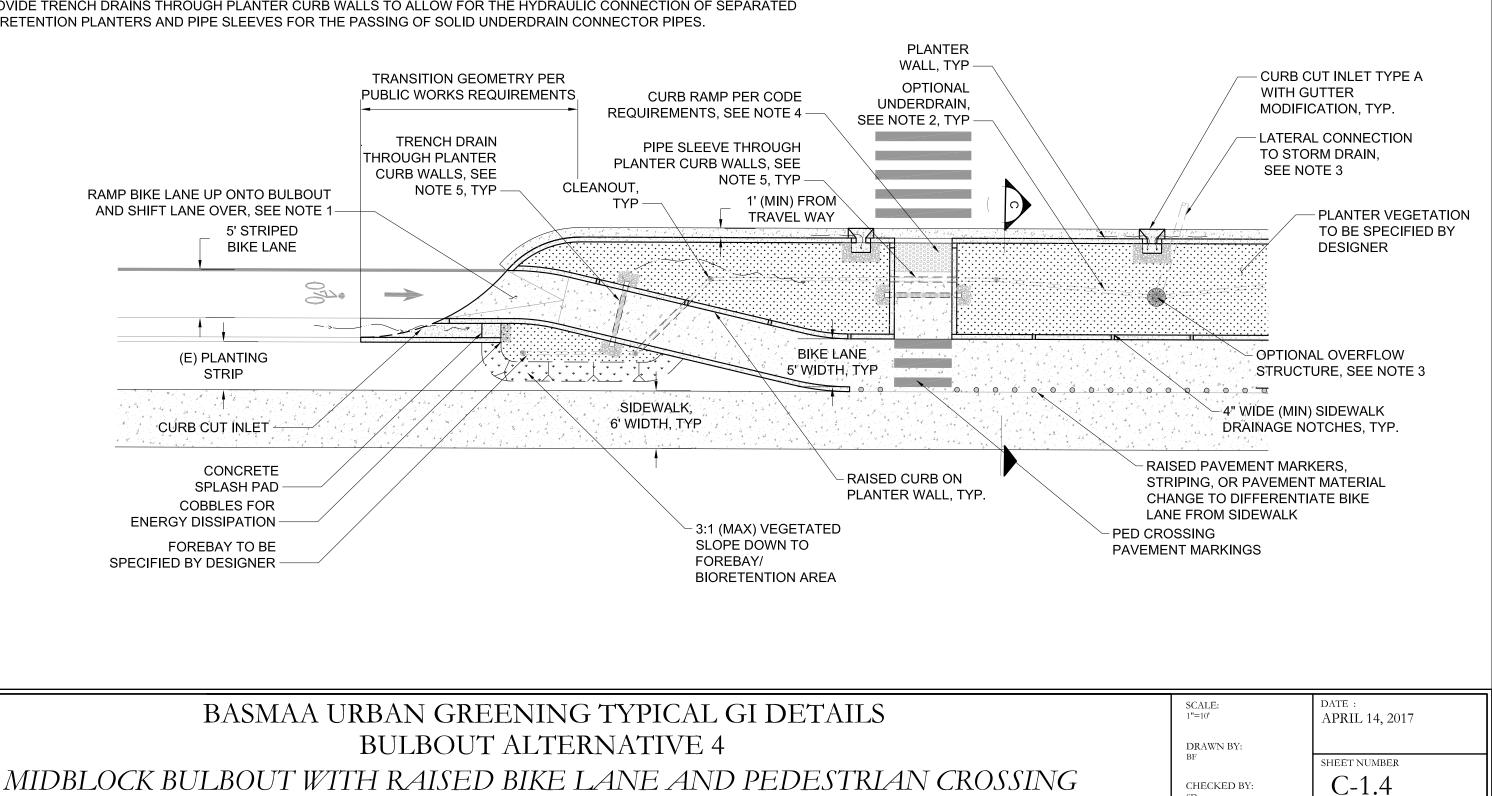
## BASMAA URBAN GREENING TYPICAL GI DETAILS BULBOUT ALTERNATIVE 3

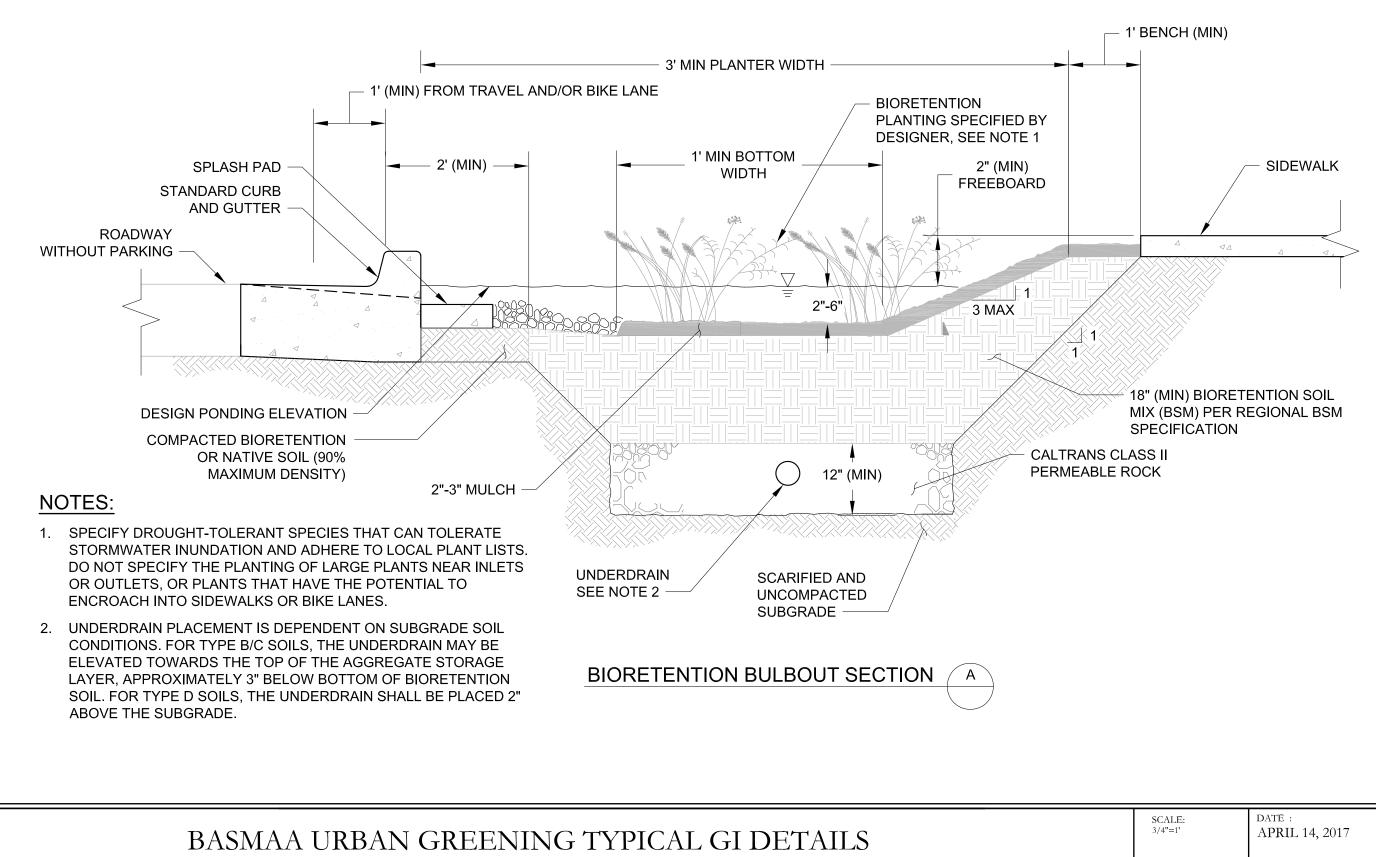
SLOPED AND WALLED SIDES, CURB CUT INLET TYPE B, CURB CUT OVERFLOW ON

TAPER CUF MATCH SID SURFACE		
ANTER WALL		CITY STANDARD
		CATCH BASIN /P PER CODE /ENTS, SEE NOTE 4.
	PLANTER CURB TO TOP OF STREET CUR LOW OUTLET	RB
DNNECTION TO NOTE 3.	) STORM	
	SCALE: 1"=5' DRAWN BY: BF	DATE : APIRL 14, 2017 SHEET NUMBER
NLY	CHECKED BY: sd	C-1.3

### NOTES:

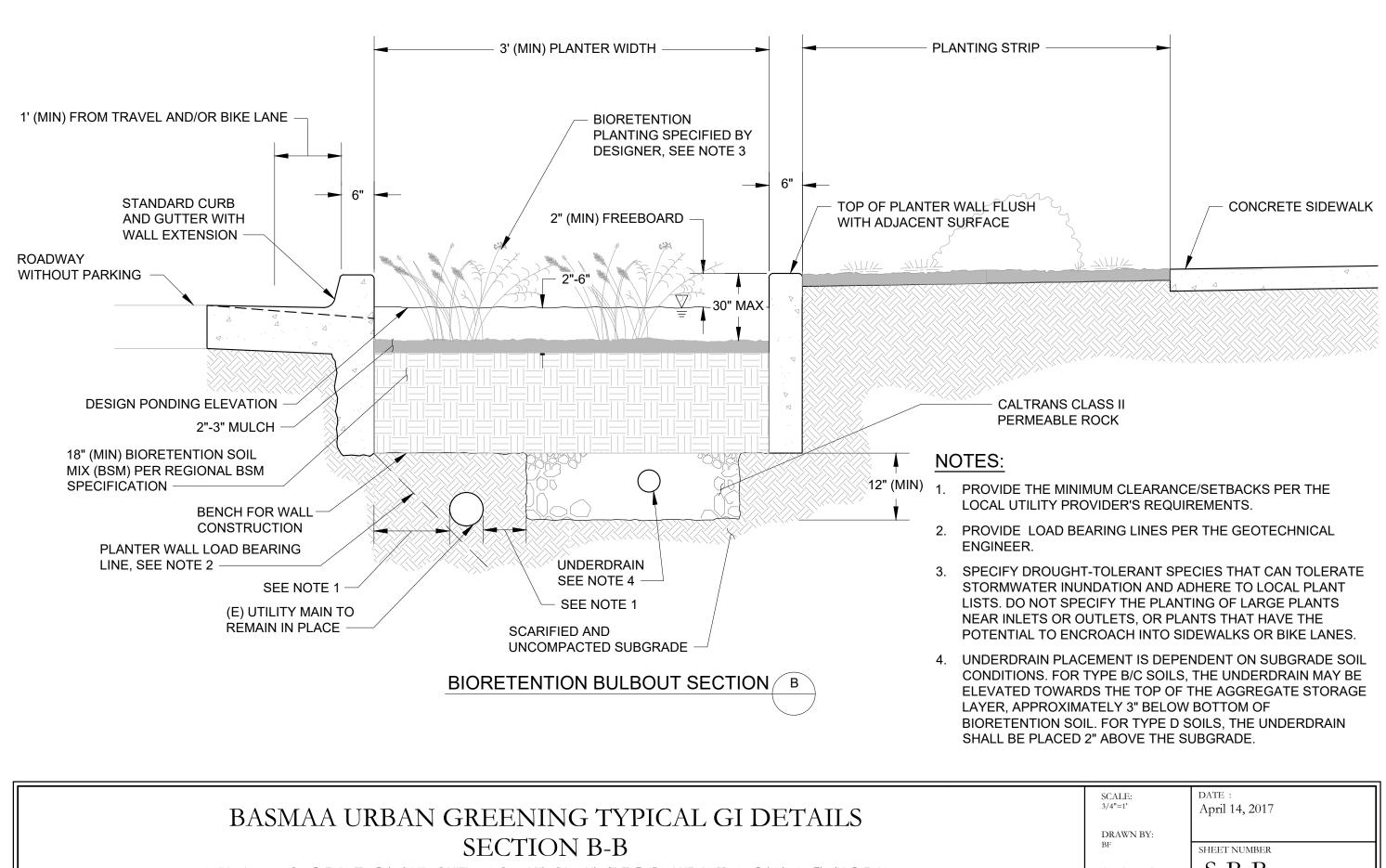
- 1. FOR HORIZONTAL BIKE LANE SHIFT, PROVIDE MAXIMUM 1:5 TRANSITION RATE.
- PROVIDE UNDERDRAIN WHERE REQUIRED TO MEET THE MINIMUM SURFACE WATER DRAWDOWN TIME. LONGITUDINAL SLOPE OF 2. PIPE SHALL BE 0.5% MINIMUM. PROVIDE CLEANOUT AT UPSTREAM END AND ANGLE POINTS EXCEEDING 45 DEGREES.
- 3. DESIGNER TO SPECIFY OVERFLOW STRUCTURE SIZE AND MATERIAL. WHERE FEASIBLE, CONNECT TO THE EXISTING STORM DRAIN LATERAL SERVING THE CORNER CATCH BASIN BEING REMOVED. IF ANY.
- ADHERE TO ALL LOCAL AND FEDERAL ACCESSIBILITY REQUIREMENTS FOR THE SIDEWALK AND CURB RAMP DESIGNS. 4.
- PROVIDE TRENCH DRAINS THROUGH PLANTER CURB WALLS TO ALLOW FOR THE HYDRAULIC CONNECTION OF SEPARATED 5. BIORETENTION PLANTERS AND PIPE SLEEVES FOR THE PASSING OF SOLID UNDERDRAIN CONNECTOR PIPES.





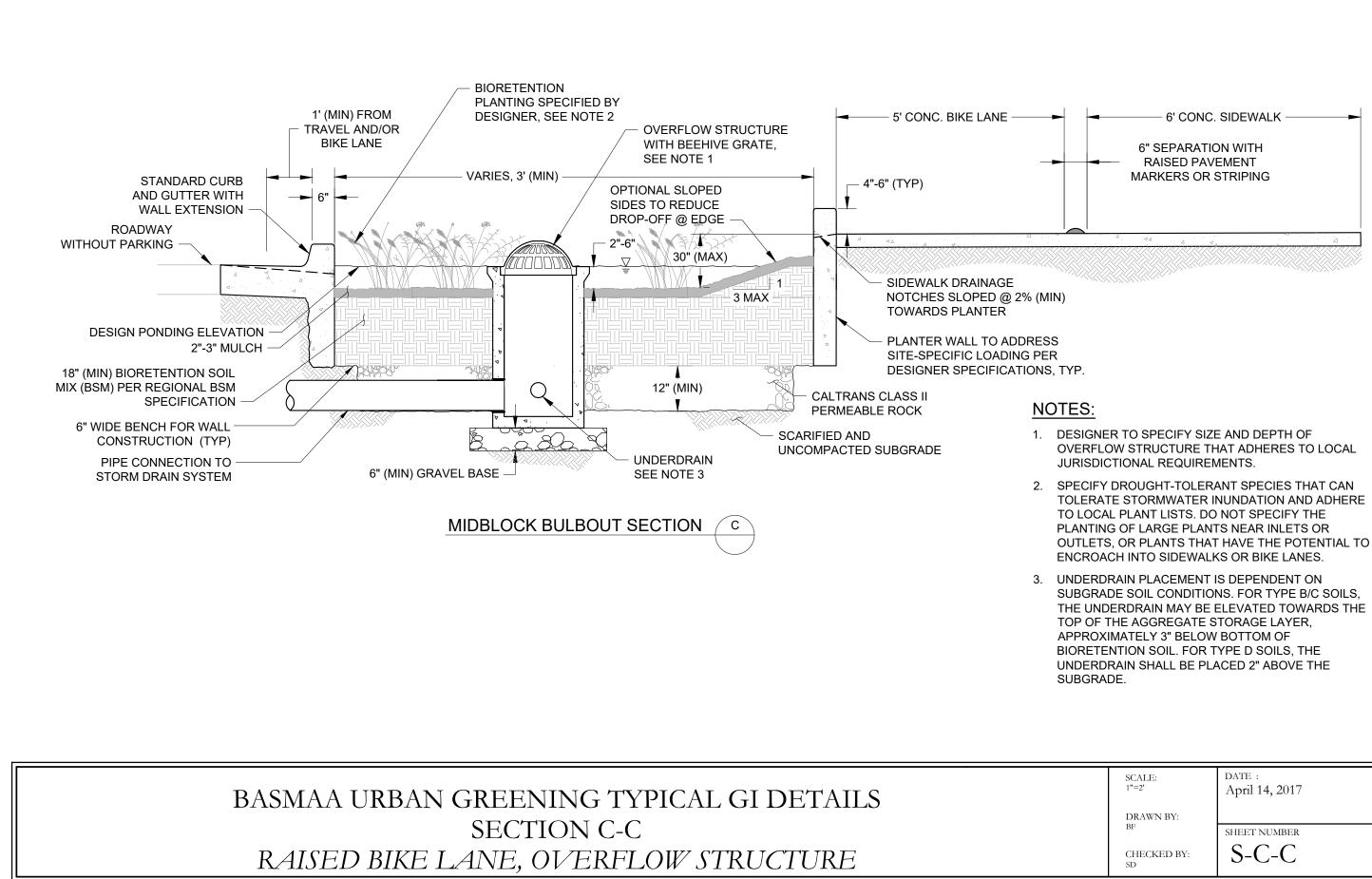
BASMAA URBAN GREENING TYPICAL GI DETAILS SECTION A-A SLOPED SIDES / NO CURB WALLS

SCALE: 3/4"=1'	DATE : APRIL 14, 2017
DRAWN BY: BF	SHEET NUMBER
CHECKED BY: SD	S-A-A



WALLS ON BOTH SIDES, UTILITY MAIN PROTECTION

SCALE: 3/4"=1'	DATE : April 14, 2017
DRAWN BY: BF	SHEET NUMBER
CHECKED BY: SD	S-B-B



SCALE: 1"=2'	DATE : April 14, 2017
DRAWN BY: BF	SHEET NUMBER
CHECKED BY: SD	S-C-C