FLOW DIRECTION

00% REVIEW

NOT FOR CONSTRUCTION

DC

APP

CHKD

DWN

DSGN

DRAWN

CLASS

REV

DESCRIPTION

SUB

NO

BLDG

SUBMITTED

TA-

SHEET

REVIEWER:

APPROVED FOR RELEASE

DRAWING NO

DATE

PROJECT ID

ENGINEERING STANDARDS

INITIAL ISSUE FOR [DCF-XYZ]

REVISIONS PER [DCF] [DRN] [FCR]

CIVIL

LOW IMPACT DEVELOPMENT

CONTROL BASIN

XX

XXXX

R. FERRELL

T. LEMKE

S. RAEL

02-10-20

DISCIPLINE POC: JOHN O'BRIEN

STANDARDS MANAGER: TOBIN ORUCH

UNCLASSIFIED

NOTES FOR DESIGNER:

DESIGN LIMITATIONS:

1. Control Basins can create zones of ponding, and may require additional safety measures.

SITING CRITERIA:

1. Control Basins should be sited in areas with adequate open space.
2. Control Basins should not be located on steep slopes or on highly erodible soils.
3. Control Basins can be sited to handle large drainage areas.
4. If filter media is incorporated, control basins may be sited in locations where water quality is a concern.

DESIGN CRITERIA:

1. Basin grading shall be designed to spread flow evenly across the basin surface.
2. Slopes shall be no steeper than 3:1.
3. Water depth should be between 18"-48".
4. Include additional freeboard in basin capacity design to accommodate sediment accumulation.
5. If infiltration rate is low (<5"/hr) consider placement of a min. 12" sand layer under basin.
6. Outlet structures shall be designed to promote infiltration and reduce velocities to predevelopment values.
7. Outlet structures are not limited to vertical control pipes as shown and may include other options (e.g., overflow weirs, under drains, etc.).
8. Vertical control pipes shall include trash racks.
9. Vertical control pipes shall include trash racks.
10. Vegetation should be drought-tolerant species able to withstand periodic inundation.

CONSTRUCTION CRITERIA:

1. Soils shall be suitable for vegetation growth.
2. Ensure inlet and outlet elevations match design specifications.
3. Identify appropriate materials and hold points for inspection during construction.
4. Provide access for maintenance.

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GENERAL NOTES:

1. If this sheet is not 24x36" use graphic scale accordingly.