



DESIGN NOTES:

1. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO SIZE, DESIGN AND DETAIL ALL MEDB STRUCTURES, INCLUDING REINFORCING STEEL GRATING, ORIFICE PLATE, WELL SCREEN, HINGED OPENING FOR ACCESS AND ALL METAL WORK CONNECTIONS.
2. A MODIFIED EDB (MEDB) MAY BE USED FOR SITES WITH A TRIBUTARY AREA GREATER THAN 1 ACRE AND LESS THAN 5 ACRES.
3. MEDB MAY PROVIDE WQCV AND FULL-SPECTRUM DETENTION (EURV AND 100-YEAR) IN A SINGLE FACILITY, OR THESE MAY BE SPLIT BETWEEN SEPARATE FACILITIES.
4. A HARD SURFACE MAINTENANCE ACCESS IS REQUIRED TO THE MEDB OUTLET STRUCTURE VIA SIDEWALK, PARKING LOT OR OTHER FORMALIZED PATH.
5. FOREBAY AND MICROPOOL MUST BE CONCRETE. A MEDB TRICKLE CHANNEL MAY BE CONCRETE OR VEGETATED. CONCRETE TRICKLE CHANNELS SHALL BE CONSTRUCTED AT A MINIMUM LONGITUDINAL SLOPE OF 0.5%. VEGETATED TRICKLE CHANNELS ARE ONLY ALLOWED IN STABLE TRIBUTARY AREAS AND MUST BE CONSTRUCTED WITH A 1.5-FOOT DEPTH IN ACCORDANCE WITH VOLUME 3 OF THE USDCM.
6. THE DISTANCE BETWEEN THE INLET(S) AND OUTLET SHALL BE MAXIMIZED TO MINIMIZE SHORT CIRCUITING. THE BASIN LENGTH (MEASURED ALONG THE FLOW PATH FROM THE INLET TO THE OUTLET) TO WIDTH RATIO SHOULD BE A MINIMUM OF 2:1.
7. OVERFLOW EMBANKMENT (EMERGENCY SPILLWAY) SHALL BE DESIGNED PER USDCM CHAPTER 12.
8. THE OUTLET STRUCTURE SHALL BE LOCATED IN THE EMBANKMENT OF THE MEDB. THE MICROPOOL SHALL BE DIRECTLY IN FRONT OF OR INTEGRATED INTO THE STRUCTURE (SEE OUTLET STRUCTURE DETAILS).
9. PROVIDE AN INITIAL SURCHARGE VOLUME ABOVE THE MICROPOOL FOR FREQUENT EVENTS (SEE OUTLET STRUCTURE DETAILS).
10. HANDRAIL IS RECOMMENDED FOR USE ADJACENT TO COARSE GRATING AND/OR WHERE PEDESTRIAN TRAFFIC IS IN CLOSE PROXIMITY TO THE OUTLET STRUCTURE. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO DETERMINE WHETHER HANDRAIL IS TO BE USED.
11. THE WELL SCREEN MAY BE OMITTED FROM THE OUTLET STRUCTURE IF THE CONTROL ORIFICES ARE 2.5 INCHES IN DIAMETER OR 2 INCHES SQUARE OR GREATER.
12. MEDBS SHALL BE VEGETATED WITH ARAPAHOE COUNTY STANDARD SEED MIXES. ROCK AND MULCH ARE NOT PERMITTED WITHIN A MEDB. SHRUBS MAY BE PLANTED ABOVE THE EURV WATER SURFACE AND TREES ABOVE THE 100-YEAR WATER SURFACE.
13. OUTLET MODIFICATION AND FLOOD HAZARD WARNING SIGNS SHALL BE PROVIDED AND MEET REQUIREMENTS ON THE GENERAL DETAILS SHEET.

CONSTRUCTION NOTES: (INCLUDE ON CONSTRUCTION DRAWINGS)

1. PERMANENT IRRIGATION IS REQUIRED FOR ALL MEDBS. IRRIGATION HEADS SHALL BE PLACED ABOVE THE EURV AND LOCATED TO ENSURE COMPLETE COVERAGE.

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REFERENCE:	SCALE:	Standard Plan Revision	
		No.	Date
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EXAMPLE PLAN 1
**MODIFIED EXTENDED
 DETENTION BASIN**

SHEET
 1 OF 1