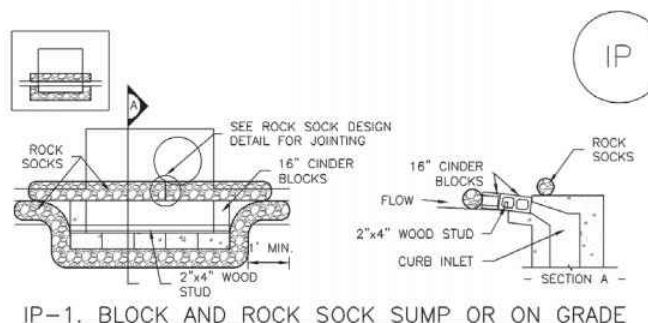


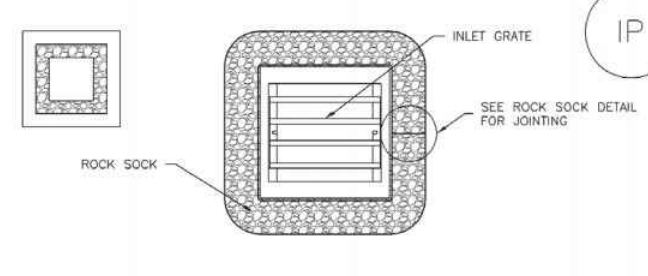
SC-6 Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON-GRADE INLET PROTECTION
BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

IP-4 Urban Drainage and Flood Control District August 2013 IP1
Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP) SC-6



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION
ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

August 2013 Urban Drainage and Flood Control District IP-5
Urban Storm Drainage Criteria Manual Volume 3

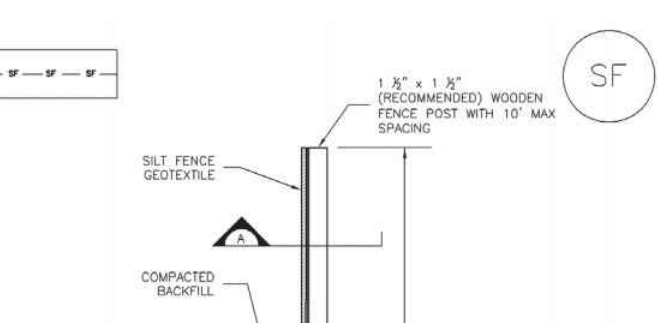
SC-6 Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- TYPE OF INLET PROTECTION.
- LOCATION OF INLET PROTECTION.

SC-5 Rock Sock (RS)
ROCK SOCK MAINTENANCE NOTES
1. INSPECT BUMP EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

RS-2 Urban Drainage and Flood Control District November 2010 RS
Urban Storm Drainage Criteria Manual Volume 3

Silt Fence (SF) SC-1



SILT FENCE
SILT FENCE INSTALLATION NOTES
1. SILT FENCE MUST BE PLACED AWAY FROM THE FACE OF THE EXCAVATION FOR MINIMUM PONDING.

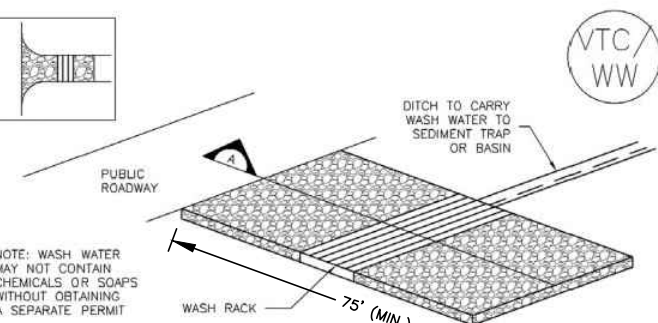
SF-4 Urban Drainage and Flood Control District November 2010 SF3
Urban Storm Drainage Criteria Manual Volume 3

SC-1 Silt Fence (SF)

SILT FENCE INSTALLATION NOTES
1. SILT FENCE MUST BE PLACED AWAY FROM THE FACE OF THE EXCAVATION FOR MINIMUM PONDING.

SF-4 Urban Drainage and Flood Control District November 2010 SF4
Urban Storm Drainage Criteria Manual Volume 3

Vehicle Tracking Control (VTC) SM-4



VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK
VTC-2 CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- TYPE OF CONSTRUCTION ENTRANCE/EXIT.
- CONSTRUCTION MAT OR BUMP.

VTC-6 Urban Drainage and Flood Control District November 2010 VTC6
Urban Storm Drainage Criteria Manual Volume 3

SM-4 Vehicle Tracking Control (VTC)

STABILIZED STAGING AREA (SSA)
SSA-1. STABILIZED STAGING AREA
SSA-1 CONSTRUCTION AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATION OF STAGING AREA(S).

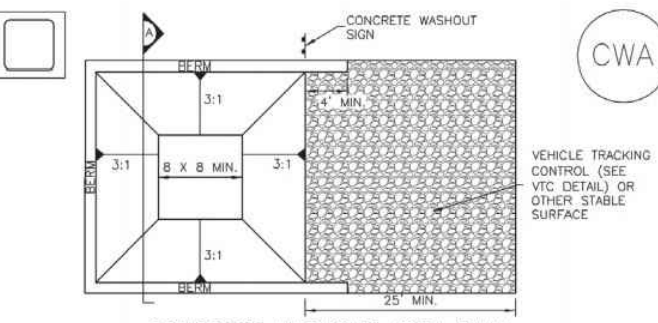
VTC-6 Urban Drainage and Flood Control District November 2010 VTC-6
Urban Storm Drainage Criteria Manual Volume 3

Rock Sock (RS) SC-5

ROCK SOCK MAINTENANCE NOTES
1. INSPECT BUMP EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

RS-3 Urban Drainage and Flood Control District November 2010 RS3
Urban Storm Drainage Criteria Manual Volume 3

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA
CWA-1 INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATION OF WASHOUT AREA.

CWA-4 Urban Drainage and Flood Control District November 2010 CWA4
Urban Storm Drainage Criteria Manual Volume 3

MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES
1. INSPECT BUMP EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

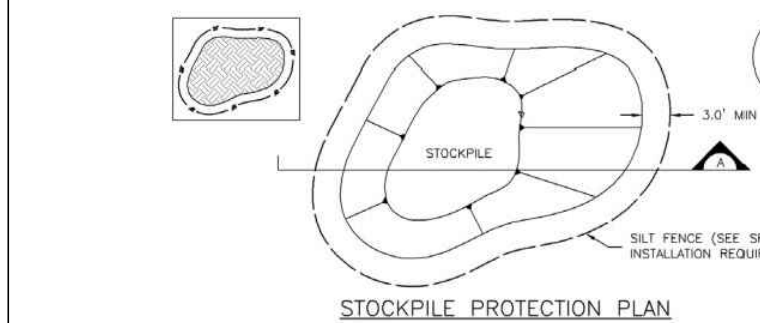
CWA-4 Urban Drainage and Flood Control District November 2010 CWA-4
Urban Storm Drainage Criteria Manual Volume 3

SSA-1 Stabilized Staging Area (SSA) SM-6

SSA-1. STABILIZED STAGING AREA
SSA-1 CONSTRUCTION AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATION OF STAGING AREA(S).

SSA-3 Urban Drainage and Flood Control District November 2010 SSA3
Urban Storm Drainage Criteria Manual Volume 3

PORTABLE TOILET DETAILS FOR CONSTRUCTION SITES



SP-1. STOCKPILE PROTECTION
STOCKPILE PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATION OF STOCKPILES.

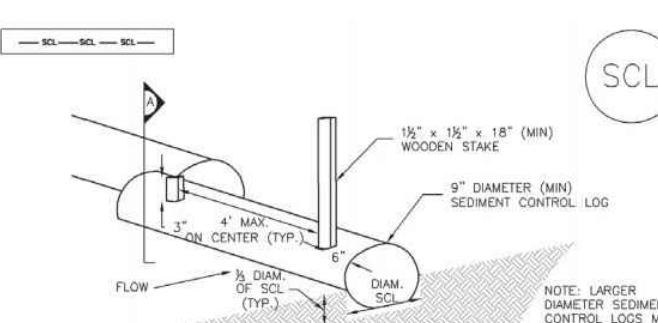
SP-4 Urban Drainage and Flood Control District November 2010 SP3
Urban Storm Drainage Criteria Manual Volume 3

MM-2 Stockpile Management (SP)

STOCKPILE PROTECTION MAINTENANCE NOTES
1. INSPECT PERMETER CONTROL AS NECESSARY IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS.

SP-4 Urban Drainage and Flood Control District November 2010 SP-4
Urban Storm Drainage Criteria Manual Volume 3

Sediment Control Log (SCL) SC-2



SCL-1. SEDIMENT CONTROL LOG
SCL-1 CONSTRUCTION AREA INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
- LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.

SCL-5 Urban Drainage and Flood Control District November 2010 SCL5
Urban Storm Drainage Criteria Manual Volume 3

SC-2 Sediment Control Log (SCL)

SEDIMENT CONTROL LOG MAINTENANCE NOTES
1. INSPECT CONSTRUCTION LOGS FOR SEDIMENT CONTROL LOGS BEING PLACED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 2% OF THE DIAMETER OF THE LOG.

SCL-5 Urban Drainage and Flood Control District November 2010 SCL-5
Urban Storm Drainage Criteria Manual Volume 3

Table with 3 columns: REV, DESCRIPTION, DATE. Row 1: 1, ADDRESS AGENCY COMMENTS, 10/05/21



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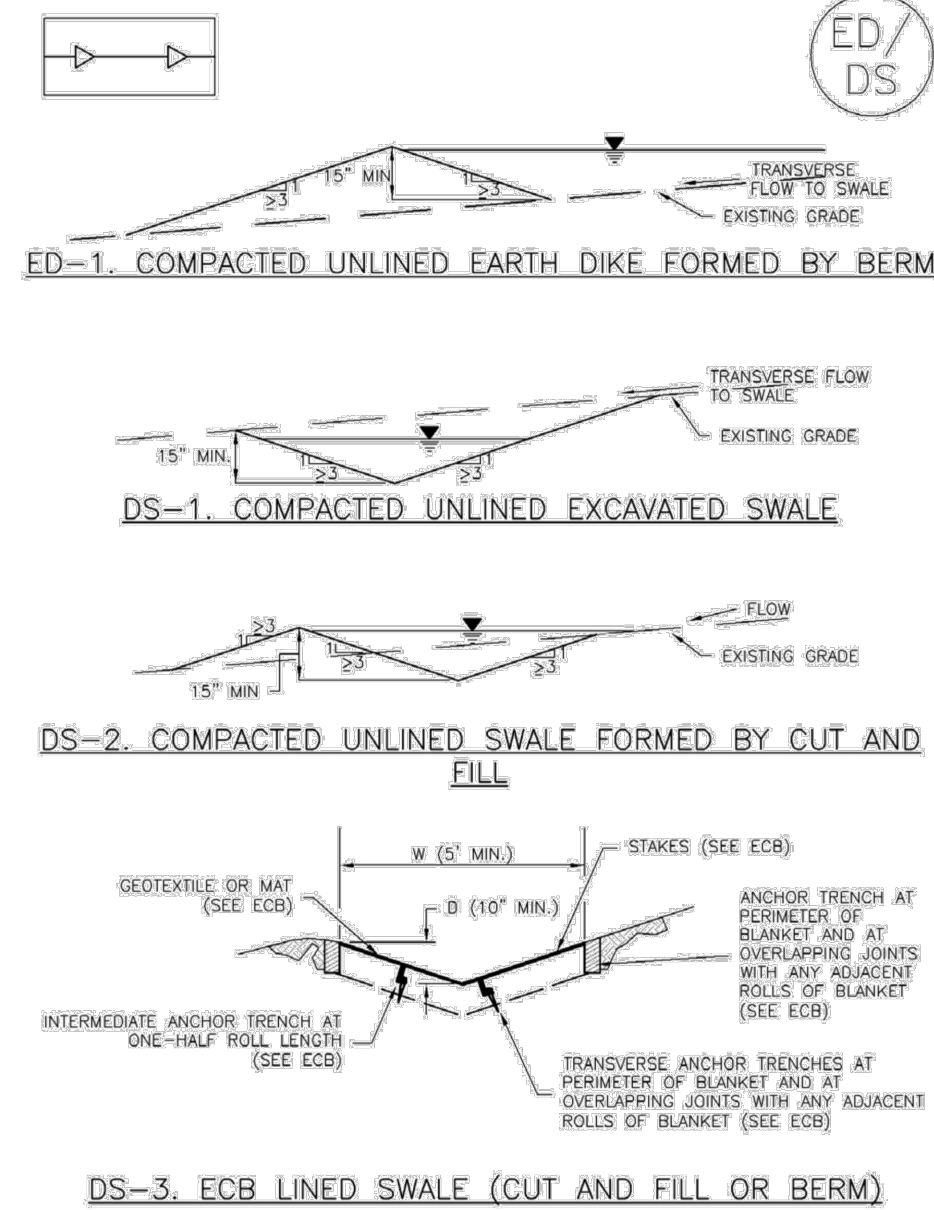
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF CATAMOUNT ENGINEERING.

DAVID L. MIJARES, COLORADO PE #40510 DATE



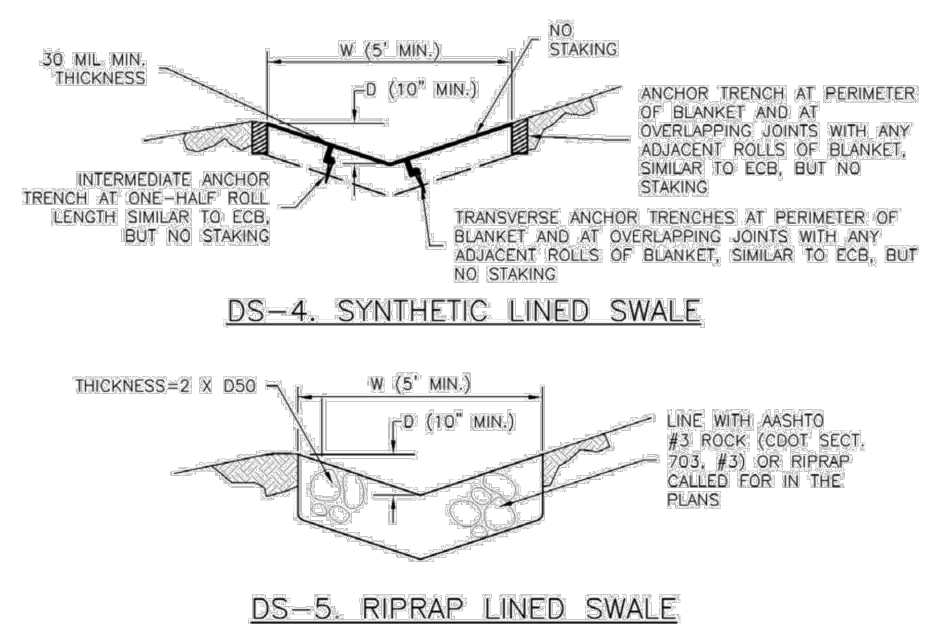
THE VILLAS AT CLAREMONT RANCH
PRE-DEVELOPMENT GRADING & EROSION CONTROL DETAIL SHEET
DRAWN BY: MGP
SCALE: N/A DATE: 11/03/20
JOB NUMBER: SHEET 16-102 3 OF 4

Earth Dikes and Drainage Swales (ED/DS) EC-10



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EC-10 Earth Dikes and Drainage Swales (ED/DS)



EARTH DIKE AND DRAINAGE SWALE INSTALLATION NOTES

- SEE SITE PLAN FOR:
 - LOCATION OF DIVERSION SWALE
 - TYPE OF SWALE (UNLINED, COMPACTED AND/OR LINED)
 - LENGTH OF EACH SWALE
 - DEPTH, D, AND WIDTH, W DIMENSIONS
 - FOR ECB/TRIM LINED DITCH, SEE ECB DETAIL
 - FOR RIPRAP LINED DITCH, SEE RIPRAP DETAIL
- SEE DRAINAGE PLANS FOR DETAILS OF PERMANENT CONVEYANCE FACILITIES AND/OR DIVERSION SWALES EXCEEDING 2-YEAR FLOW RATE OR 10 CFS.
- EARTH DIKES AND SWALES INDICATED ON SWMP PLAN SHALL BE INSTALLED PRIOR TO LAND-DISTURBING ACTIVITIES IN PROGRESS.
- EMBANKMENT IS TO BE COMPACTED TO 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698.
- SWALES ARE TO DRAIN TO A SEDIMENT CONTROL BMP.
- FOR LINED DITCHES, INSTALLATION OF ECB/TRIM SHALL CONFORM TO THE REQUIREMENTS OF THE ECB DETAIL.
- WHEN CONSTRUCTION TRAFFIC MUST CROSS A DIVERSION SWALE, INSTALL A TEMPORARY CULVERT WITH A MINIMUM CLEARANCE OF 12 INCHES.

ED/DS-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Earth Dikes and Drainage Swales (ED/DS) EC-10

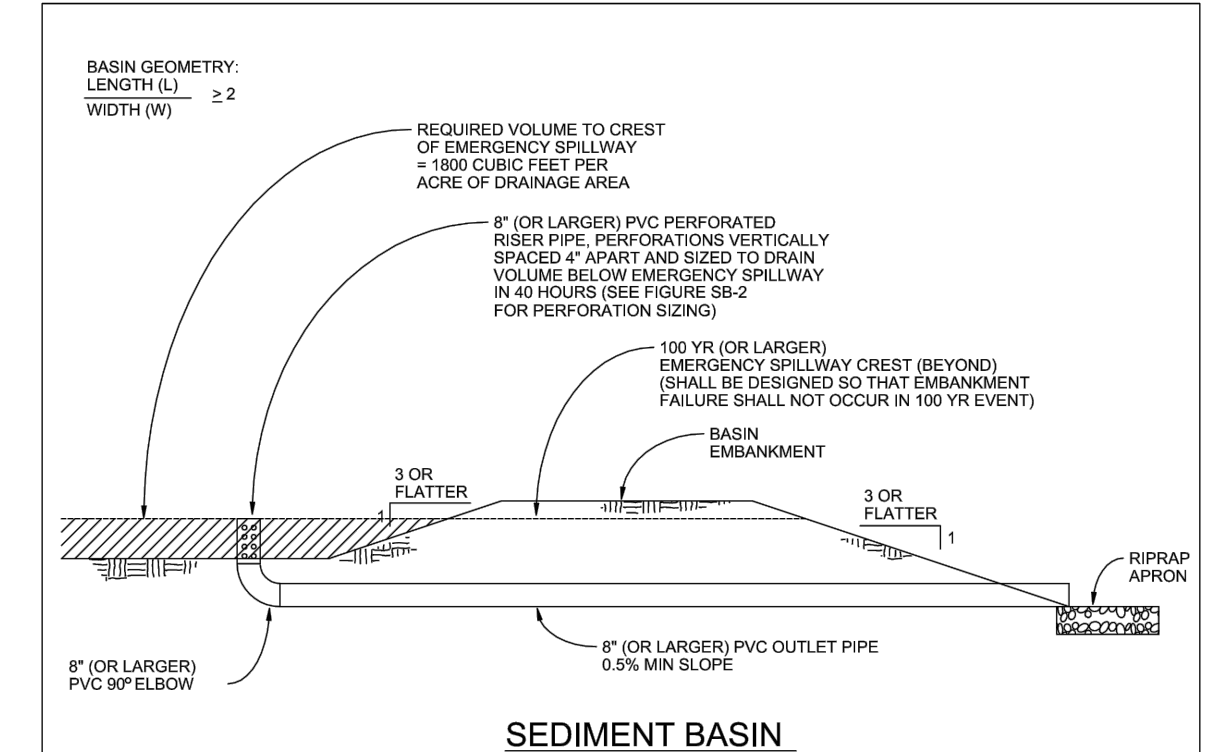
EARTH DIKE AND DRAINAGE SWALE MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE.
- WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRINGS, COLORADO, NOT AVAILABLE IN ANTI-SLOP)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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SEDIMENT BASIN NOTES

INSTALLATION REQUIREMENTS

- SEDIMENT BASINS SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
- THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
- THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN ITS VOLUME IN 40 HOURS.
- THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. BAFFLES MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 15% PASSING A #200 SIEVE. EXCAVATED SOIL CAN BE USED IF IT MEETS THIS REQUIREMENT.
- EMBANKMENT IS TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
- WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA FOR SAFETY REASONS, A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.

MAINTENANCE REQUIREMENTS

- CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY DURING PERIODS OF NO RAINFALL.
- SEDIMENT BASINS SHALL BE CLEANED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
- SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements 3-32

TABLE SB-1

Required Area per Row (m ²)	Depth of Outlet (ft)							
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
2	15.04	7.77	5.10	3.76	2.95	2.41	2.02	1.73
1	7.52	3.89	2.55	1.88	1.48	1.21	1.01	0.87
0.6	4.51	2.31	1.53	1.13	0.89	0.72	0.61	0.52
0.4	3.01	1.54	1.02	0.75	0.59	0.48	0.40	0.35
0.2	1.50	0.77	0.51	0.38	0.30	0.24	0.20	0.17
0.1	0.75	0.39	0.26	0.19	0.15	0.12	0.10	0.09
0.05	0.45	0.22	0.15	0.11	0.09	0.07	0.06	0.05
0.01	0.08	0.04	0.03	0.02	0.01	0.01	0.01	0.01

TABLE SB-2

Circular Perforation Sizing	Area per Row (m ²)		
	n = 1	n = 2	n = 3
Hole Diameter (in)	Hole Diameter (in)		
14	0.290	0.05	0.10
5/16	0.313	0.08	0.15
3/8	0.375	0.11	0.22
7/16	0.438	0.15	0.30
1/2	0.500	0.20	0.39
9/16	0.563	0.25	0.50
5/8	0.625	0.31	0.61
11/16	0.688	0.37	0.74
3/4	0.750	0.44	0.88
7/8	0.875	0.60	1.20
1	1.000	0.79	1.57
1 1/8	1.125	0.99	1.99
1 1/4	1.250	1.23	2.45
1 3/8	1.375	1.48	2.97
1 1/2	1.500	1.77	3.53
1 5/8	1.625	2.07	4.15
1 3/4	1.750	2.41	4.81
1 7/8	1.875	2.78	5.52
2	2.000	3.14	6.28

n = Number of columns of perforations

Minimum steel plate thickness: 1/4" 5/16" 3/8"

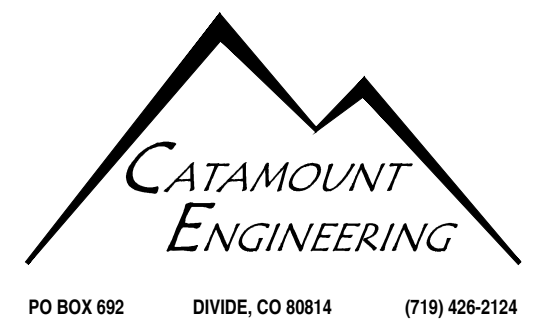
City of Colorado Springs Stormwater Quality Figure SB-2 Outlet Sizing Application Techniques and Maintenance Requirements 3-33

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	10/05/21



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