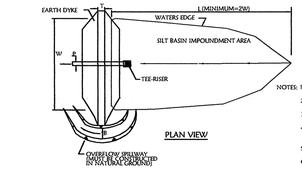


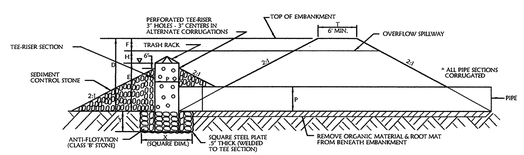
PLAN VIEW

NOTES:
1. CLEAN OUT BASIN WHEN SEDIMENT VOLUME REACHES 25% OF STORAGE VOLUME.
2. MINIMUM SURFACE AREA AND MINIMUM VOLUME ARE MEASURED BELOW THE TOP OF PRINCIPAL SPILLWAY (TOP OF RISER).
3. ALL DIMENSIONS OF BASIN WILL NOT REQUIRE CONSTRUCTION TO NEAT LINES.
4. THE EARTH DYKE MAY BE CONSTRUCTED ALONG ONE OR MORE SIDES. EXCAVATION MAY BE REQUIRED TO PROVIDE MINIMUM SURFACE AREA AND/OR MINIMUM STORAGE VOLUME.
5. THE DYKE SHALL BE CONSTRUCTED OF MATERIAL SUITABLE FOR AND MEETING ROADWAY EMBANKMENT SPECIFICATIONS.
6. TO FACILITATE DETERMINATION OF MAINTENANCE CLEANOUT REQUIREMENT A MARKER SHOULD BE PLACED IN THE BASIN INDICATING THE 50% VOLUME LEVEL.

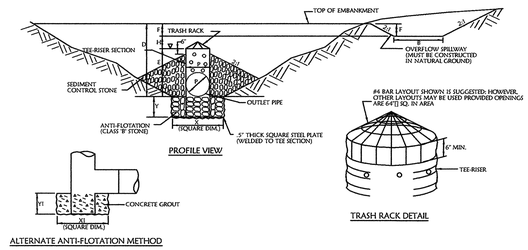
STANDARD BASIN DIMENSIONS												
P	DRAINAGE AREA (MAX)	DYNAMIC POOL AREA (MAX)	H	T (MIN)	D*	E	F	B (MIN)	X (MIN)	Y (MIN)	X1 (MIN)	Y1 (MIN)
IN.	Ac	Ac	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.
24	9.0	6.0	1.0	6.0	8.0	3.0	1.0	8.0	5.5	1.0	5.0	1.0
30	16.0	10.0	1.0	6.0	9.5	3.0	1.5	8.0	7.6	1.0	6.9	1.0

* SHALL NOT EXCEED 12'

PART 1



SECTIONAL VIEW



PROFILE VIEW

TRASH RACK DETAIL

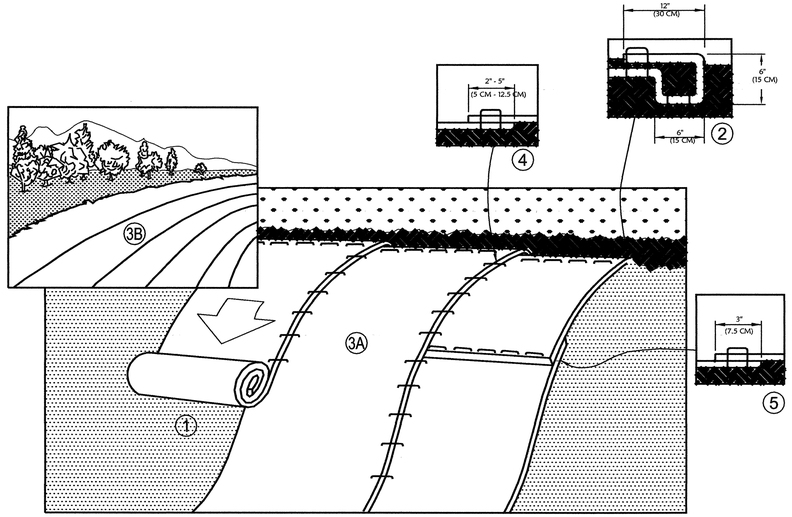
ALTERNATE ANTI-FLOTATION METHOD

PART 2

SILT BASIN W/ ANTI VORTEX DEVICE

N.T.S.

AVD-B

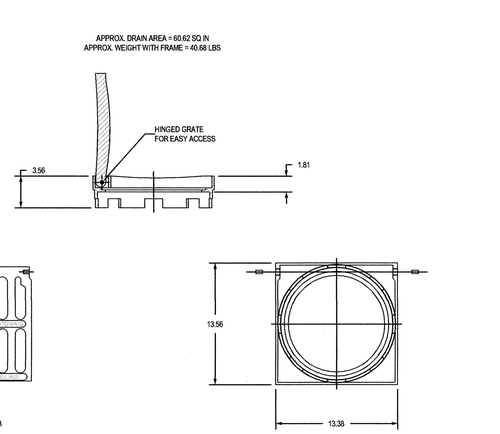


EROSIONAL CONTROL BLANKET DETAIL FOR SLOPE INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF THE BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON TEH PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIAMTE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

CBL-S



1299CGS

N.T.S.

ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-035

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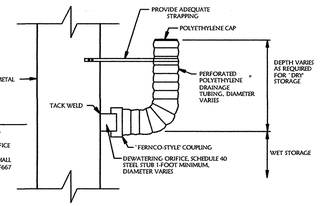
DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-3-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	3-3-06		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 12 IN STANDARD GRATE ASSEMBLY
DWG NO. 7001-110-203 REV B

CGS

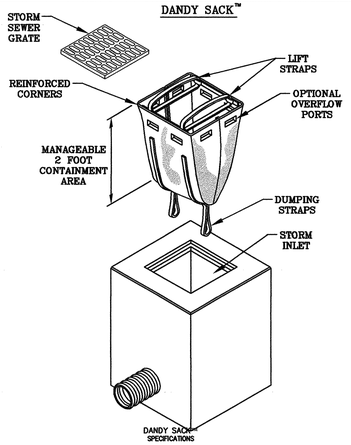


SEDIMENT BASIN DEWATERING SYSTEM

N.T.S.

DW-S

DANDY SACK™



NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5508 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.75 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.90

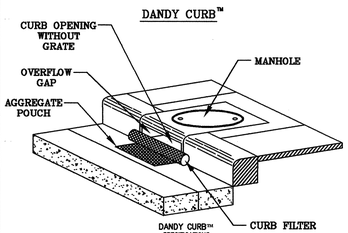
HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

DC-I

DANDY CURB™



NOTE: THE DANDY CURB™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

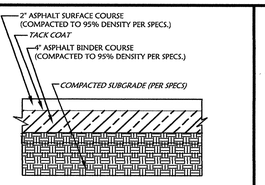
DANDY CURB™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Curbs™ can be ordered with our optional oil absorbents

DETAIL OF CURB INLET SEDIMENT CONTROL DEVICE WITH CURB FILTER

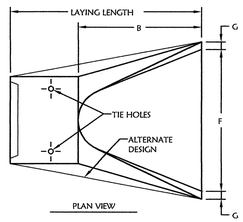
DCR



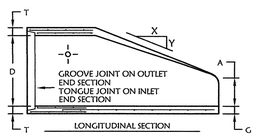
STANDARD DUTY ASPHALT PAVEMENT SECTIONS

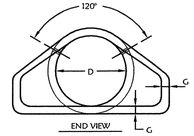
N.T.S.

D313



Tie Bolt holes are provided for the installation of tie bolts between the flared end section and the adjacent pipe.





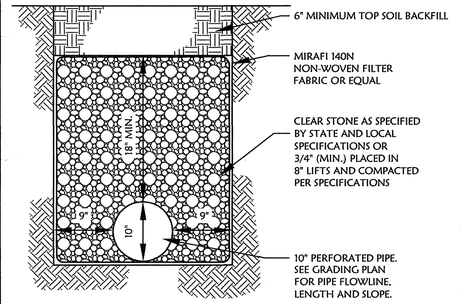
PIPE DIAMETER D	LAYING LENGTH		SLOPE	T	A	B	F	G	WEIGHT PER SECTION
INCHES	OUTLET	INLET	X TO Y	INCHES	INCHES	INCHES	INCHES	INCHES	LBS.
12	6'-0"	6'-0"	2.4 to 1	2	4	24	24	2	530
15	6'-0"	6'-0"	2.4 to 1	2 1/4	6	27	30	2 1/4	740
18	6'-0"	6'-0"	2.3 to 1	2 1/2	9	27	36	2 1/2	990
21	6'-0"	6'-0"	2.4 to 1	2 3/4	9	36	42	2 3/4	1280
24	6'-0"	6'-0"	2.5 to 1	3	9 1/2	43 1/2	48	3	1520
27	6'-0"	6'-0"	2.5 to 1	3 1/4	10 1/2	49 1/2	54	3 1/4	1930
30	6'-0"	6'-0"	2.5 to 1	3 1/2	12	54	60	3 1/2	2190
33	6'-6"	6'-6"	2.5 to 1	3 3/4	13 1/2	58 1/2	66	3 3/4	3850
36	8'-2"	7'-10"	2.5 to 1	4	15	63	72	4	4100
42	8'-2"	7'-9 1/2"	2.5 to 1	4 1/2	21	63	78	4 1/2	5380
48	8'-2"	7'-9 1/2"	2.5 to 1	5	24	72	84	5	6550
54	8'-2 1/2"	7'-9 1/2"	2.0 to 1	5 1/2	27	65	90	5 1/2	8240
60	8'-3"	7'-10"	1.9 to 1	6	35	60	96	5	8730
66	8'-3"	7'-10"	1.7 to 1	6 1/2	30	72	102	5 1/2	10710
72	8'-3"	7'-10"	1.9 to 1	7	36	78	108	6	12520
78	9'-3"	8'-10"	1.8 to 1	7 1/2	36	90	114	6 1/2	14770
84	9'-3 1/2"	8'-10 1/2"	1.5 to 1	8	36	90 1/2	120	6 1/2	18160
90	9'-3 1/2"	8'-10 1/2"	1.5 to 1	8 1/2	41	87 1/2	132	6 1/2	20900

End section is manufactured in accordance with applicable portions of ASTM Specifications C76.

NON-GASKETED PIPE FLARED END SECTIONS

N.T.S.

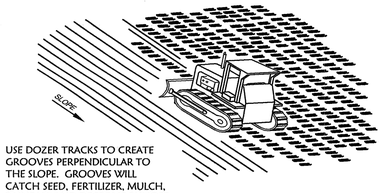
D253



FRENCH DRAIN

N.T.S.

D318



USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

TRACKING DETAIL

N.T.S.

TD

BY | DESCRIPTION | DATE

SCOTT P. MCGEE LICENSED 16947 KANSAS PROFESSIONAL ENGINEER 4/1/08

Czark Civil Engineering Inc.
Bentonville • Kansas City • Austin

DETAIL SHEET
DETENTION POND (WEST)
CADILLAC LAKE DRAINAGE IMPROVEMENTS
MAIZE ROAD AND 29TH STREET NORTH
WICHITA, KS

DRAWN BY:	EDH
APPV. BY:	SPM
DWG. NAME:	07-0798-BID.dwg
DATE:	06-24-08
JOB NO:	07-0798
SHEET NO:	B8

p:\07-0798 (nw wichita ks grading work with poe and assoc.)\dwg\project\bid\07-0798-bid.dwg - Plotted on 7/1/2008 10:35:04 AM @ a scale of 1:1 to hp designjet 1050c by hp by Administrator