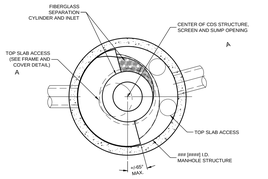
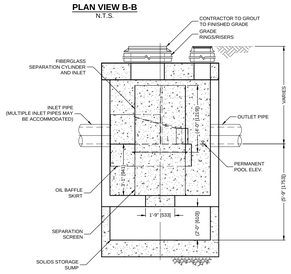


PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO H520 AND CASTINGS SHALL MEET H520 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

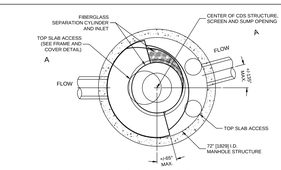
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

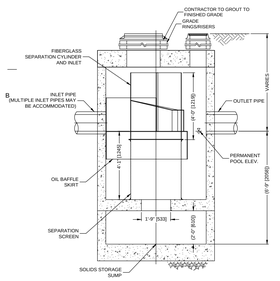
CDS3025-6-C
INLINE CDS
STANDARD DETAIL

WATER QUALITY CONTROL STRUCTURE CONTECH CDS3025-6-C
(WQS B-2-2-2, WQS F-7, WQS F-6-1 LBP)

91



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

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6. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
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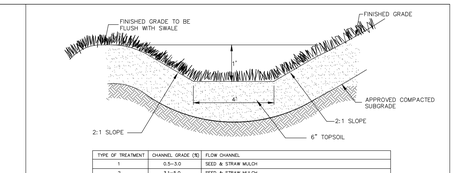
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com

CDS3035-6-C
INLINE CDS
STANDARD DETAIL

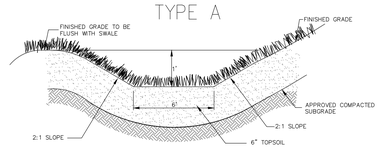
WATER QUALITY CONTROL STRUCTURE CONTECH CDS3035-6-C
(WQS B-6-4)

92



TYPE OF TREATMENT	CHANNEL GRADE (%)	FLOW CHANNEL
1	0.5–3.0	SEED & STRAW MULCH
2	3.1–5.0	SEED & STRAW MULCH
3	5.1–8.0	SEED & COVER WITH RECP, SOD, OR LINE WITH PLASTIC OR 2 IN. STONE
4	8.1–20	LINE WITH 4–8 IN. STONE OR RECYCLED CONCRETE EQUIVALENT OR GEOTEXTILE

TYPE A



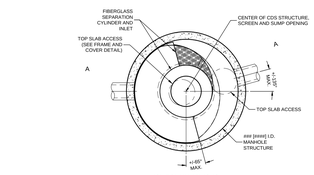
TYPE OF TREATMENT	CHANNEL GRADE (%)	FLOW CHANNEL
1	0.5–3.0	SEED & STRAW MULCH
2	3.1–5.0	SEED & COVER WITH RECP, SOD, OR LINED WITH PLASTIC OR 2 IN. STONE
3	5.1–8.0	LINE WITH 4–8 IN. STONE OR RECYCLED CONCRETE EQUIVALENT OR GEOTEXTILE
4	8.1–20	SITE SPECIFIC ENGINEERING DESIGN

TYPE B

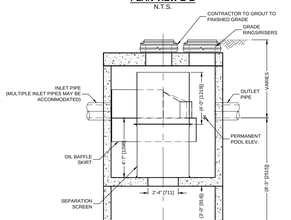
NOTES:
1. IMMEDIATELY AFTER GRADING OPERATIONS, THE GRASS SWALE SHALL BE STABILIZED WITH SEED MIX AND MULCHES.
2. FOR SWALE SLOPES EXCEEDING 8% ,A 6"S MESH SHALL BE UTILIZED TO STABILIZE THE SWALE BASE.
3. AREA ADJACENT TO SWALE TO BE BROUGHT TO FINISH GRADE AS SHOWN. IF FILL IS REQUIRED, TOPSOILED, SEEDED AND MAINTAINED FOR EROSION CONTROL.
4. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT

CONSTRUCTION DITCH

93



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

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4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO H520 AND CASTINGS SHALL MEET H520 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
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CONTECH ENGINEERED SOLUTIONS LLC
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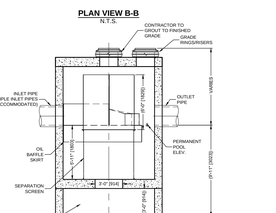
800-338-1122 513-645-7000 513-645-7993 FAX

CDS4040-8-C
INLINE CDS
STANDARD DETAIL

WATER QUALITY CONTROL STRUCTURE CONTECH CDS4040-8-C
(WQS G-6-1, WQS H-9-3, WQS B-5)

94



PLAN VIEW B-B
N.T.S.

ELEVATION A-A
N.T.S.

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6. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

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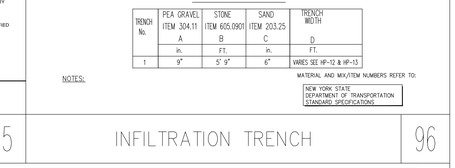
CONTECH ENGINEERED SOLUTIONS LLC
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS5653-10-C
INLINE CDS
STANDARD DETAIL

WATER QUALITY CONTROL STRUCTURE CONTECH CDS5653-10-C
(WQS H-10, WQS O-3, WQS A-12-1, WQS E-9-1, WQS E-11)

95



SECTION A-A

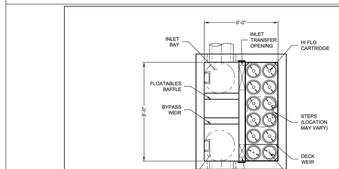
TRENCH No.	PEA GRAVEL ITEM 304.11 A	STONE ITEM 605.0901 B	SAND ITEM 203.25 C	TRENCH WIDTH D
	in.	FT.	in.	FT.
1	9"	5' 9"	6"	VARIES SEE HP-12 & HP-13

NOTES:

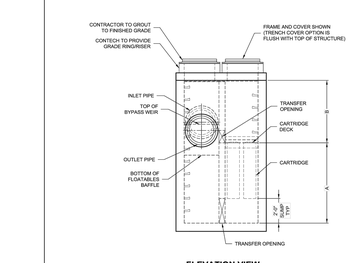
MATERIAL AND MIX/ITEM NUMBERS REFER TO:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

INFILTRATION TRENCH

96



PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)



ELEVATION VIEW

Jellyfish® Filter
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 8,124,059; 8,545,706; 8,969,075; OTHER INTERNATIONAL PATENTS PENDING

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

24" TRENCH COVER
(LENGTH VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
# OF CARTRIDGES REQUIRED (HF / DD)	*
CARTRIDGE LENGTH	*

PIPE DATA:	I.E.	MATL	DIA	SLOPE %	HGL
INLET #1	*	*	*	*	*
INLET #2	*	*	*	*	*
OUTLET	*	*	*	*	*

SEE GENERAL NOTES 6-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD

CARTRIDGE SELECTION

CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFS)	1.96	1.47	0.98	0.54
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT. PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE: www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT
4. STRUCTURE SHALL MEET AASHTO H5-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 10', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-478, AND AASHTO LOAD FACTOR DESIGN METHOD.
6. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
C. CONTRACTOR TO INSTALL ALL JOINTS INCLUDING STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH MAXIMUM 1% EXPANSION ADMIXTURE).
D. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

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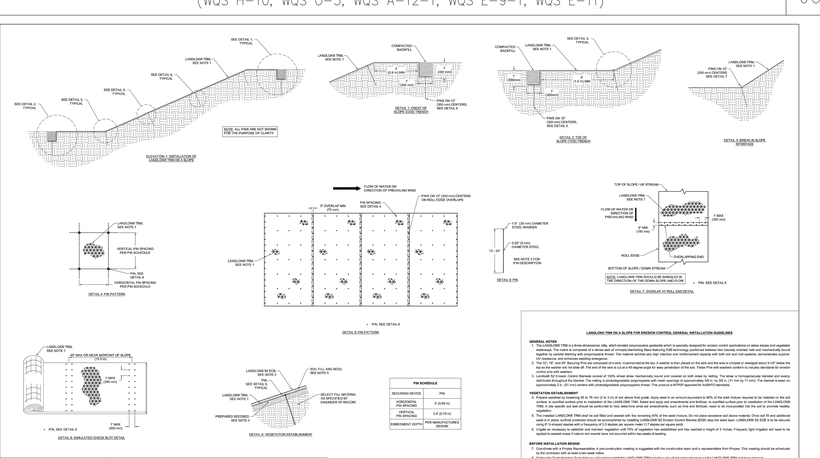
JELLYFISH JFPD0806
STANDARD DETAIL
PEAK DIVERSION CONFIGURATION

WATER QUALITY STRUCTURE B-2-7 CONTECH JELLYFISH

97



PIN SCHEDULE	
SECURING DEVICE	PIN
HORIZONTAL PIN SPACING	3' (0.09 m)
VERTICAL PIN SPACING	3.5' (0.75 m)
EMBEDMENT DEPTH	PER MANUFACTURER'S DESIGN

LANDLOK TRM ON A SLOPE FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES

GENERAL NOTES
1. The LANDLOK TRM is a three-dimensional, fully, stitch-bonded polypropylene geotextile which is specially designed for erosion control applications on steep slopes and vegetated channels. The product shall consist of a permanent, non-degradable, UV stabilized, three-dimensional matrix of 100% polypropylene fibers. The fibers shall be bonded together by uniform stitching with polypropylene thread. The material will be rapidly filled with soil and root systems, demonstrate superior UV resistance, and enhance seedling emergence.
2. The LANDLOK TRM shall be manufactured in a way, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or wedged about 5-1/2" below the top as the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
3. The LANDLOK TRM shall consist thermally bonded consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 5/8 in. by 5/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in (51 mm) centers with photodegradable polypropylene thread. This product is NOT to be approved for installation by temperature.

VEGETATION ESTABLISHMENT
1. Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount recommended to 85% of the total mixture required to be installed on the soil surface. In scarified surface prior to installation of the LANDLOK® TRM. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the LANDLOK® TRM. Full benefits soil test should be performed to help determine lime and soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
2. The installed LANDLOK® TRM shall be roll filled and seeded with the remaining 40% of the seed mixture. Do not allow excessive soil above material. Once soil fill and additional seed has been applied, the material shall be rolled with a roller not exceeding 90 kg/m (100 lbs/ft) of roller width. Ensure that the material is flattened (EDB) atop the seed layer. LANDLOK® TRM shall be rolled with a maximum roller weight of 2.5 kilograms per square meter (7.5 kilograms per square yard).
3. Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.

BEFORE INSTALLATION BEGINS
1. Prior to the start of work, a pre-construction conference should be arranged. A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least one week notice.
2. Before the Trade Needed. Tools that you will need to install the LANDLOK® TRM include a pair of industrial shears to cut the LANDLOK® TRM and base materials.
3. Prepare the soil before installing the LANDLOK® TRM. Remove all vegetation, stones, clods or hard objects that will prevent the LANDLOK® TRM from lying flat against the soil. Fill any depressions which could cause voids underneath the material. Refer to Erosion Control Guidelines for further guidance.
10.Please contact the Propex Website for the most up to date installation guidelines.

EROSION CONTROL INSTALLATION DETAILS

Propex GEOSOLUTIONS

LANDLOK TRM INSTALLATION DETAILS FOR SLOPES

"ALL DIMENSIONS ARE TO BE VERIFIED BY OWNER/OR OF RECORD"

TURF REINFORCEMENT MAT (TRM)

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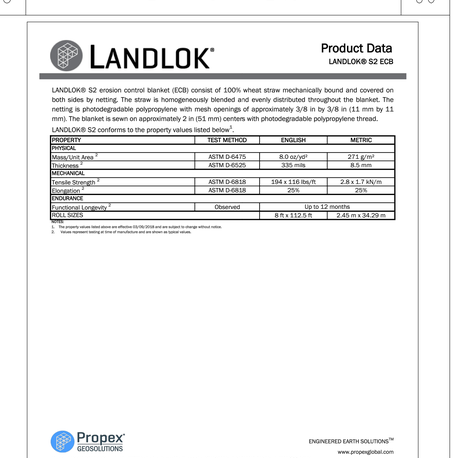
EROSION CONTROL MATTING

98



Product Data
LANDLOK® S2 ECB

LANDLOK® S2 erosion control blanket (ECB) consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in by 3/8 in (11 mm by 11 mm). The blanket is sewn on approximately 2 in (51 mm) centers with photodegradable polypropylene thread.

LANDLOK® S2 conforms to the property values listed below[1].

PROPERTY	TEST METHOD	ENGLISH	METRIC
PHYSICAL			
Mass/Unit Area [2]	ASTM D-6475	8.0 oz/yd²	271 g/m²
Thickness [2]	ASTM D-6525	335 mils	8.5 mm
MECHANICAL			
Tensile Strength [2]	ASTM D-6818	194 x 116 lbs/ft	2.8 x 1.7 kN/m
Elongation [2]	ASTM D-6818	25%	25%
ENDURANCE			
Functional Longevity [3]	Observed	Up to 12 months	
ROLL SIZES		8 ft x 112.5 ft	2.45 m x 34.29 m

1. The property values listed above are effective 01/30/2018 and are subject to change without notice.
2. Values represent testing at time of manufacture and are shown as typical values.

Propex GEOSOLUTIONS

ENGINEERED EARTH SOLUTIONS™
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No.	Description	Date
5	REV. PER WATERSHED INSPECTOR GENERAL COMMENTS	12/16/2022
4	REV. SITE GRADING	12/05/2022
3	REV. FOR NYCDEP SUBMISSION	10/14/2022
2	REV. PER TOWN COMMENTS	03/25/2022

Revisions

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

STATE OF NEW YORK · MICHAEL J. PFLUG · 081473 · LICENSED PROFESSIONAL ENGINEER

Signature 12/16/2022 Date

MICHAEL J. PFLUGRATH, PE, LEED-AP
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Project
LINCOLN LOGISTICS BREWSTER
TOWN OF SOUTHEAST
PUTNAM COUNTY NEW YORK

Drawing Title
DETAIL SHEET (8 OF 11)

Project No. 190065201
Date