

SHOP DRAWING REVIEW FORM AND TRANSMITTAL

DATE: **October 15, 2021**

TO: Carl Hendrickson
 Project Manager
 Veolia Water
 825 West Water Street
 Taunton, MA 02780

FROM: Michael Andrus, P.E.
 Project Manager
 BETA Group, Inc.
 701 George Washington Hwy
 Lincoln, Rhode Island 02865

RE: City of Taunton, MA
 WWTF Phase 1 Improvements
 Contract S-2021-1

Shop Drawing No. 02272-01 REV 0 – Geotextile Materials

BETA COMMENTS:

<u>Item</u>	<u>Action Code</u>	<u>Description/Comments</u>
1	1	Geotextile Materials 1. Acceptable as submitted.

Action Codes

- 1 - No Exception Taken
- 2 - Make Corrections Noted
- 3 - Amend and Resubmit
- 4 - Rejected, See Remarks
- 5 - Record File Only

- a. Installation shall proceed only when Action Code is '1' or '2'.
- b. Submittals action coded '3' shall be resubmitted within time limit set in Contract.
- c. Review does not relieve Contractor from responsibility of compliance with the Contract Documents.



Hart Engineering Corporation

SUBMITTAL:
02272-01

PROJECT: 9900. - Veolia/Taunton WWTF Phase 1 Improvements

DATE: 10/12/2021

SUBMITTAL: 02272-01 - Geotextile Materials

REVISION: 0

STATUS: Eng

SPEC #: 02272

TO:
Michael Andrus
Beta Group Inc.
6 Blackstone Place
Lincoln, RI 02865
MAndrus@BETA-Inc.com

FROM:
Ryan Murphy
Hart Engineering Corporation
800 Scenic View Drive
Cumberland, RI 02864
rmurphy@hartcompanies.com

Item	Revision	Description	Status	Date Sent	Date Returned
02272-01	0	Geotextile Materials	Eng	10/12/2021	
Notes:					

Additional Notes:

Status Codes

- 1-APP – No Exceptions Taken
- 2-ANR – Make Corrections Noted
- 3-R&R – Revise and Resubmit
- 4-REJ – Rejected
- 5-IPO – For Information Purposes Only
- 6-NRR – Not Required for Review
- ENG – Submitted to Engineer

Sincerely,
Hart Engineering Corporation

SHOP DRAWING REVIEW	
<input checked="" type="checkbox"/> 1 – Approved	<input type="checkbox"/> 2 – Approved as Noted
<input type="checkbox"/> 3 – Revise and Resubmit	<input type="checkbox"/> 4 – Rejected
<input type="checkbox"/> 5 – Record File Only – No Action Taken	
(Above Check Designates Action Code – See Review Comments)	
IMPORTANT NOTE FOR CONTRACTOR	
Review is only for general compliance with the design concept and information provided in Contract Documents. Corrections and comments made on the Shop Drawings during review do not relieve the Contractor from compliance with the requirements of the plans and specifications. Review and/or approval of a specific item shall not include review or approval of an assembly of which the item is a component. No approval or correction of a Shop Drawing shall be construed as an order for extra work. The Contractor is responsible for: all quantities and dimensions to be confirmed and correlated; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all trades and subcontractors; and performing all Work in a safe and satisfactory manner.	
BETA GROUP, INC.	Checked By: <u>BM</u>
By: <u>Mike Andrus</u>	Date: <u>10/15/2021</u>

DATE: 10/12/2021

N040

Polypropylene NonWoven Fabric

N040 is a polypropylene, needle punched nonwoven geotextile for use in drainage and separation applications. It has been stabilized to resist degradation due to ultraviolet exposure and is resistant to commonly encountered mildew, insects and soil chemicals, and is non-biodegradable.

Property	Test Method	Min Avg. Roll Values
Grab Tensile Strength ¹	ASTM D4632	100 Lbs
Grab Tensile Elongation	ASTM D4632	50%
CBR Puncture	ASTM D6241	280 Lbs
Trapezoid Tear Strength	ASTM D4533	50 Lbs
Apparent Opening Size (AOS)	ASTM D4751	70 US Sieve
Permittivity (sec ⁻¹)	ASTM D4491	2.0 sec ⁻¹
Flow Rate	ASTM D4491	140 gpm/ft ²
UV Resistance after 500 hrs.	ASTM D4355	70%

Values quoted above are the result of multiple tests conducted at an independent testing facility. N040 meets or exceeds values listed.

¹Values apply to both machine and cross-machine directions

Packaging		
Roll Width	12.5 ft	15 ft
Roll Length	360 ft	360 ft
Roll Area	500 sy	600 yd ²

