SHOP DRAWING REVIEW FORM AND TRANSMITTAL

November 5, 2021		
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
City of Taunton, MA WWTF Phase 1 Improvements Contract S-2021-1		
Shop Drawing No. 07002-01	Tapered Roo	of Insulation
_	Carl Hendrickson Project Manager Veolia Water 825 West Water Street Taunton, MA 02780 City of Taunton, MA WWTF Phase 1 Improvements Contract S-2021-1	Carl Hendrickson FROM: Project Manager Veolia Water 825 West Water Street Taunton, MA 02780 City of Taunton, MA WWTF Phase 1 Improvements Contract S-2021-1

BETA COMMENTS:

Item	Action Code	Description/Comments	
1	1	Tapered Roof Insulation	
		1. Acceptable as submitted	

Action Codes

- 1 No Exception Taken
- 2 Make Corrections Noted
- 3 Amend and Resubmit
- 4 Rejected, See Remarks
- 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.

J:\Taunton\WWTF Construction\Phase 1\Shop Drawings\BETA Reviews\07002-01 - Tapered Roof Insulation.docx





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

DATE: 10/13/2021

SUBMITTAL: 07001-02 - Tapered Roof Insulation REVISION: 0 STATUS: Eng SPEC #: 07001

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
07001-02	0	Tapered Roof Insulation	Eng	10/13/2021	
Notes:			P DRAWING RE	Approved as Noted	
		3 - Revise an		Rejected	
Additional No	otes:		(Above Check Desig		
Status Codes(Above Check Designates Action Code - See Review Co1-APP - No Exceptions TakenIMPORTANT NOTE FOR CONTRACTOR2-ANR - Make Corrections Notedand information provided in Contract Documents. Corr and comments made on the Shop Drawings during revi not relieve the Contractor from compliance with the requirements of the plans and specifications. Review a approval of a specific item shall not include review or a of an assembly of which the item is a component. No a or correction of a Shop Drawing shall be construed as a for extra work. The Contractor is responsible for: all qu and dimensions to be confirmed and correlated; inform that pertains solely to the fabrication processes or to th means, methods, techniques, sequences and proceduri construction; coordination of the Work with that of all th		ments. Corrections s during review do with the is. Review and/or e review or approval onent. No approval onstrued as an order ole for: all quantities ated; information sses or to the nd procedures of			
Sincerely, Hart Engineer	ing Corpo	ration	satisfactory manne BETA GROUP, MLA	r. I <mark>NC.</mark> Checked By:	AR (GHD) 11/5/21
			DATE:	10/13/2021	



SUBMITTAL REVIEW COMMENT SHEET

PROJECT TITLE:	Taunton WWTG Phase 1 Improvements		
OWNER:	Town of Taunton, MA		
CONTRACT NO.:		PROJECT NO.:	11186884

SUBMITTAL NO. AND TITLE:	070001-02 Tapered Roof Insulation	ACCEPTED
SPECIFICATION SECTION NO. AND TITLE:	11186884-SPC1	(NO RESUBMITTAL REQUIRED)
 ☑ SHOP DRAWING □ O&M MANUAL □ PRODUCT SAMPLE 	Reviewed only for conformance with the design concept of the project and with information given in the Contract Documents. The Contractor is responsible for: 1) verifying that dimensions are confirmed and correlated at the job	(RESUBMITTAL REQUIRED) ACCEPTED AS CORRECTED (PROVIDE REQUESTED INFORMATION ONLY)
□ OTHER:	site; 2) obtaining information that pertains to the fabrication processes or to techniques of construction; and 3) coordinating the work of all subcontractors.	REVISE AND RESUBMIT NOT APPROVED NOT REVIEWED FOR INFORMATION PURPOSES ONLY

By: KNH

Date: 11/3/2021

Comments:

1. No comments.



Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

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Project Name:	TAUNTON WWTF- BLOWER BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-627-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.5″
Tapered Max Thickness:	7.98″	Compressive Strength:	20 psi
Average R-Value:	37.78	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

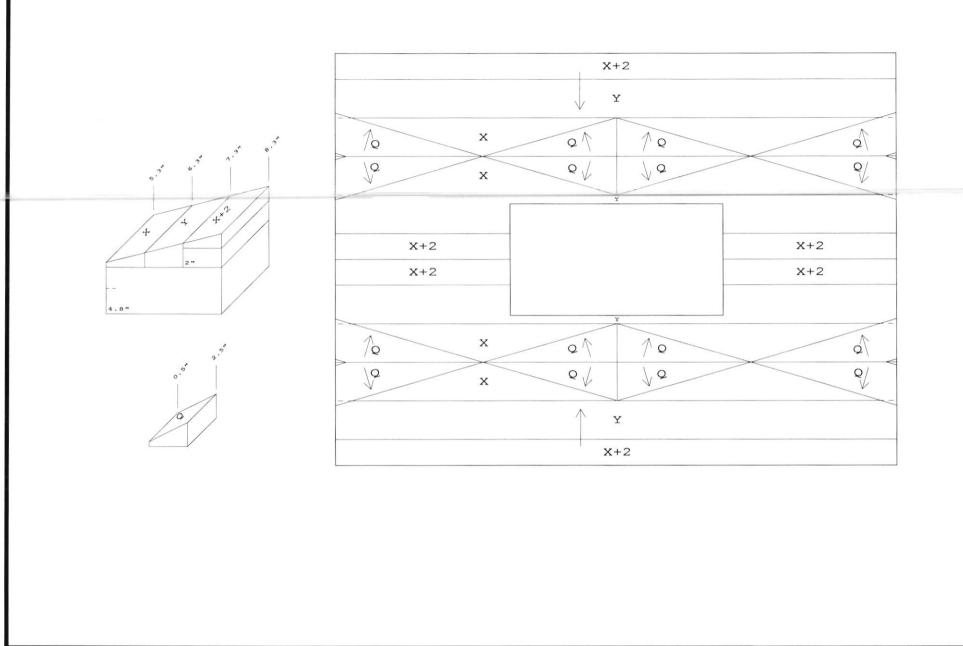
Approx. Roof Size(sq. ft):	2,237	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	10.24	Total Applied SQ's:	77.06
Total Handled SQ's:	87.20	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

For questions regarding this quote, please contact: North Bridge Building Products, 2 Executive Drive, Suite 304, Chelmsford, MA 01824 Phone 844.458.9000



- This quotation is based solely on information provided by you or acquired by us on your behalf and it is assumed that you are providing and/or verifying clear roof areas and complete information. As such, this quotation reflects our interpretation only of plans and specs received and may differ from architectural specifications or actual building specifications. This interpretation is based only on the roof drawing or the specific plan pages indicated by you the customer and may not include hidden roof areas or roof areas not shown clearly on a roof drawing.
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- Price includes the use of ISO FILL within tapered & cricket systems **but may not include a base layer of** polyisocyanurate.
- Waste is included in this quotation but in extremely limited quantities and the layout assumes that "cut pieces" are used whenever possible.
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 fully dependent upon pricing from the manufacturers providing the polyisocyanurate insulation and is subject to
 change at their discretion.
- Price is based on estimated drain locations field verification of existing conditions and dimensions required prior to shipment.
- Quotation does not include material that may be required for tapered edge strips, sumps, drains, or recovery board.
- Flat on Structurally Sloped Roof Area(s): this quotation DOES NOT INCLUDE any required flat on the structurally sloped roof areas.
- Base Layer for Full Tapered Area(s): this quotation DOES INCLUDE a base layer.
- This quotation DOES NOT IN CLUDE cover board or overlay.
- Deviation to this interpretation will require revised pricing. This quotation supersedes any prior quotation(s) for this tapered system quote.
- R-values shown comply with revised 2014 LTTR Value of 5.7 R/inch (LTTR (R-Value) based on ASTM c 1289-13e1).
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- Each full truckload delivered comes with a \$400 freight charge.



Project:TAUNTON WWTF- CH BUILDING		Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 7.98"
Location:TAUNTON, MA		Cricket Slope: 1/2" Base Layer: INCLUDED
Quote Number: T21-627-V1 REV A	NORTH BRIDGE	Average R-Value: 37.78 Comp. Strength: 20 PSI
Estimator:DH Date:_10/05/21	AUTHORIZED REPRESENTATIVE OF JOHNS MANVILLE	Overall Squares Applied:77.06



Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

Project Name:	TAUNTON WWTF-	Bid Date:	
	CHEMICAL HANDLING BLDG	•	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-626-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	3.10"
Tapered Max Thickness:	8.55"	Compressive Strength:	20 psi
Average R-Value:	38.35	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	1,988.5	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	10.24	Total Applied SQ's:	69.57
Total Handled SQ's:	80.0	Project Subtotal:	
Special Notes:			
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EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

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6 ^{-2[*]} 6 ^{-2[*]} 4 [*] 4 [*]	$\begin{array}{c c} x+2 \\ \hline \\ y \\ \hline \\ y \\ \hline \\ y \\ \hline \\ y \\ \hline \\ x+2 \\ \hline \\ \\ x+2 \\ \hline \end{array}$
Project: TAUNTON WWTF- CH BUILDING Location: TAUNTON, MA Quote Number:T21-626-V1 REV A Estimator: DH Date: 10/05/21	Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 8.55" Cricket Slope: 1/2" Base Layer: INCLUDED Average R-Value: 38.35 Comp. Strength: 20 PSI Overall Squares Applied: 69.57

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Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

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Project Name:	TAUNTON WWTF- PUMP STATION 1	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-624-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.40"
Tapered Max Thickness:	10.49"	Compressive Strength:	20 psi
Average R-Value:	45.15	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

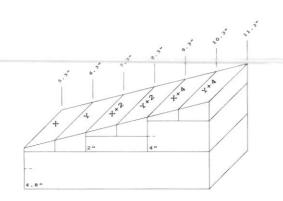
Analysis & Pricing:

Approx. Roof Size(sq. ft):	1,906	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	5.28	Total Applied SQ's:	75.23
Total Handled SQ's:	82.88	Project Subtotal:	
Special Notes:			

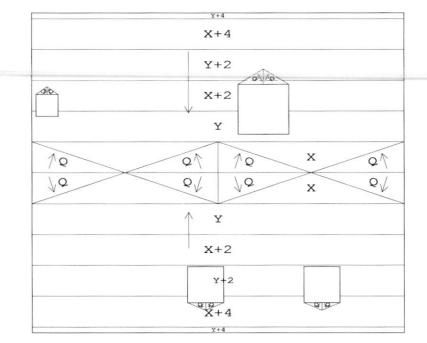


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Project: TAUNTON WWTF- PUMP STN 1	$\langle \langle \rangle$	Tapered Slope: <u>1/4</u> " Min. Thickness: <u>5.3</u> " Max Thickness: <u>10.49</u> "
Location: TAUNTON, MA	NODTH	Cricket Slope: 1/2" Base Layer: INCLUDED
Quote Number:T21-624-V1 REV A	NORTH BRIDGE	Average R-Value: 45.15 Comp. Strength: 20 PSI
Estimator:_DHDate:_10/05/21	AUTHORIZED REPRESENTATIVE OF JOHNS MANVILLE	Overall Squares Applied: 75.23



Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

Project Name:	TAUNTON WWTF- PUMP STATION 2	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-625-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.40"
Tapered Max Thickness:	7.91″	Compressive Strength:	20 psi
Average R-Value:	37.97	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

994	Truckloads(48 ft.):	0.29
4.32	Total Applied SQ's:	34.0
38.72	Project Subtotal:	
	4.32	4.32 Total Applied SQ's:



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Project: TAUNTON WWTF- PUMP STN 2 Location: TAUNTON, MA Quote Number: T21-625-V1 REV A Estimator: DH Date: 10/05/21	NORTH BRIDGE BUILDING PRODUCTE AUTHORIZED REPRESENTATIVE OF JOHNS MANVILLE	Tapered Slope: <u>1/4"</u> Min. Thickr Cricket Slope: <u>1/2"</u> Base Layer: <u>IN</u> Average R-Value: <u>37.97</u> Overall Squares Applied: <u>34.0</u>	ICLUDED

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Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

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Project Name:	TAUNTON WWTF-	Bid Date:	
	SOLIDS HANDLING BLDG.		
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-628-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WI	TH 1/2" CRICKETS & BASE LA	YERS.

Product Information & Tapered Roof Area:

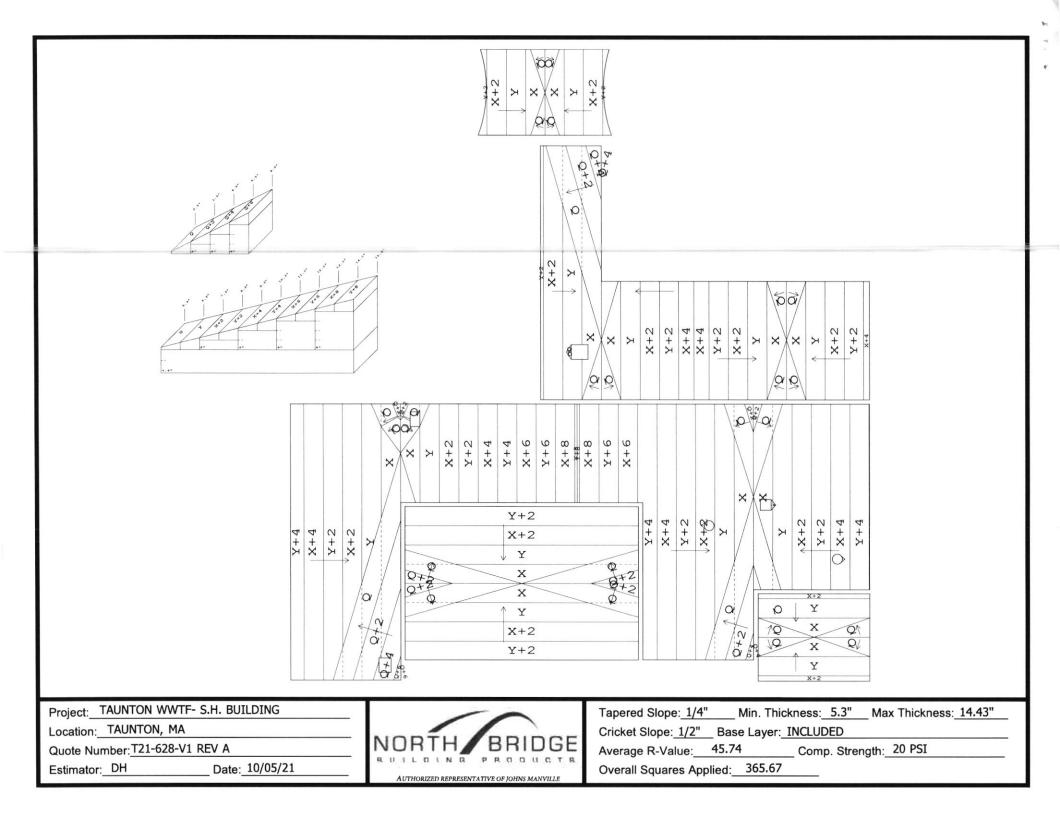
Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	7.21″
Tapered Max Thickness:	14.43"	Compressive Strength:	20 psi
Average R-Value:	45.74	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	8,891	Truckloads(48 ft.):	2.25
Total Cricket SQ's Handled:	35.20	Total Applied SQ's:	365.67
Total Handled SQ's:	388.64	Project Subtotal:	
Special Notes:			



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Quotation provided by North Bridge BP, an authorized representative of Johns Manville Commercial Roofing Products.

Project Information:

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Project Name:	TAUNTON WWTF-	Bid Date:	
	OPERATIONS BLDG.		
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-629-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

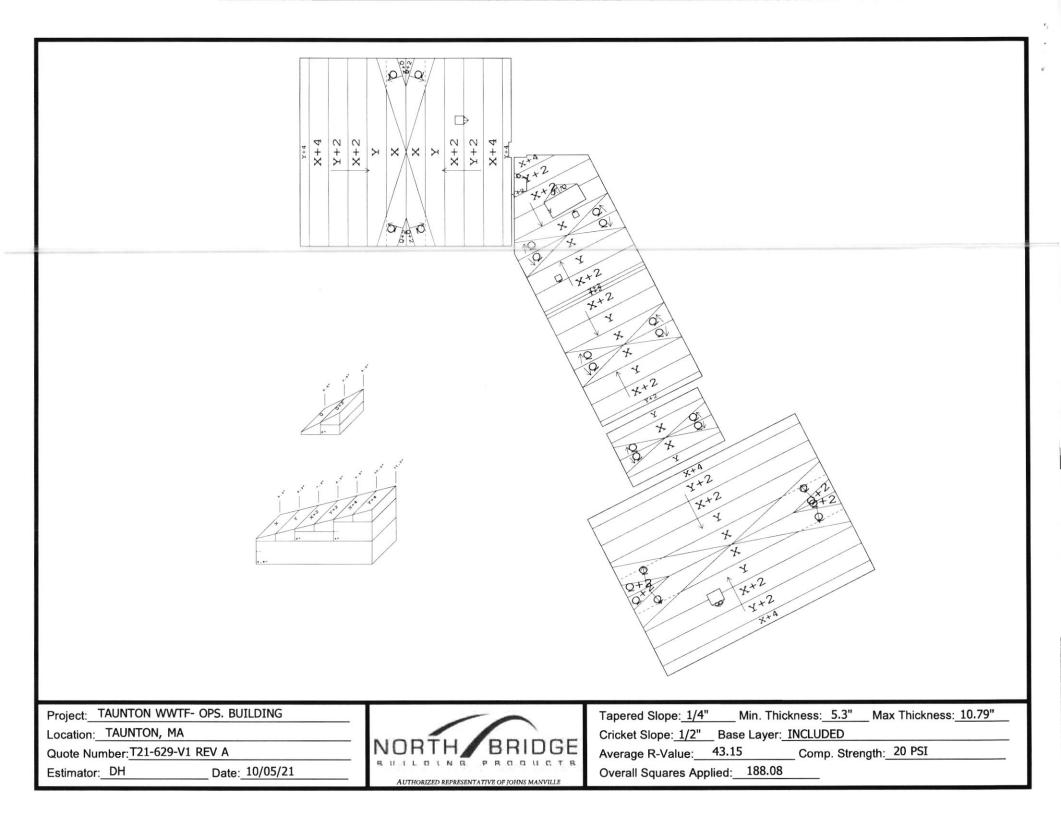
Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5″
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	3.86"
Tapered Max Thickness:	10.79"	Compressive Strength:	20 psi
Average R-Value:	43.15	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	4,980	Truckloads(48 ft.):	1.23
Total Cricket SQ's Handled:	17.76	Total Applied SQ's:	188.08
Total Handled SQ's:	205.60	Project Subtotal:	
Special Notes:			

NORTH BRIDGE

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Project Information:

Project Name:	TAUNTON WWTF- STORAGE BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-630-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.41"
Tapered Max Thickness:	10.89"	Compressive Strength:	20 psi
Average R-Value:	46.30	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	2,316	Truckloads(48 ft.):	0.63
Total Cricket SQ's Handled:	4.96	Total Applied SQ's:	92.89
Total Handled SQ's:	98.08	Project Subtotal:	
Special Notes:			



- This quotation is based solely on information provided by you or acquired by us on your behalf and it is assumed that you are providing and/or verifying clear roof areas and complete information. As such, this quotation reflects our interpretation only of plans and specs received and may differ from architectural specifications or actual building specifications. This interpretation is based only on the roof drawing or the specific plan pages indicated by you the customer and may not include hidden roof areas or roof areas not shown clearly on a roof drawing.
- Price reflects only attached/included layout. You will be asked to verify that these are the full and correct dimensions prior to placing an order.
- Price includes the use of ISO FILL within tapered & cricket systems but may not include a base layer of polyisocyanurate.
- Waste is included in this quotation but in extremely limited quantities and the layout assumes that "cut pieces" are used whenever possible.
- Quotation valid until indicated expiration date but in no event more than 90 days from the quote date. Pricing is fully dependent upon pricing from the manufacturers providing the polyisocyanurate insulation and is subject to change at their discretion.
- Price is based on estimated drain locations field verification of existing conditions and dimensions required prior to shipment.
- Quotation does not include material that may be required for tapered edge strips, sumps, drains, or recovery board.
- Flat on Structurally Sloped Roof Area(s): this quotation DOES NOT INCLUDE any required flat on the structurally sloped roof areas.
- Base Layer for Full Tapered Area(s): this quotation DOES INCLUDE a base layer.
- This quotation DOES NOT INCLUDE cover board or overlay.
- Deviation to this interpretation will require revised pricing. This quotation supersedes any prior quotation(s) for this tapered system quote.
- R-values shown comply with revised 2014 LTTR Value of 5.7 R/inch (LTTR (R-Value) based on ASTM c 1289-13e1).
- Prices quoted herein are subject to change without notice prior to acceptance of an order submitted by customer.
- This quotation is not an offer to sell. Please verify product availability prior to placing an order.
- Each full truckload delivered comes with a \$400 freight charge.

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Project:TAUNTON WWTF-STORAGE BUILDING Location:TAUNTON, MA Quote Number:T21-630-V1 REV A Estimator:_DHDate:_10/05/21	NORTH BRIDGE	Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 10.89" Cricket Slope: 1/2" Base Layer: INCLUDED Average R-Value: 46.30 Comp. Strength: 20 PSI Overall Squares Applied: 92.89

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