

21 APR 99

011

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO: USACE - BUFFALO DIST. ATT: HANK WALTERS	FROM: RADIANT INT LLC Buffalo Field Office	CONTRACT NO. DACA31-96-D-0026 D.O. # 25	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL
--	---	---	--

SPECIFICATION SEC. NO. (Cover only one section with each transmittal) ACT. #3 16, 17, 18, 19 from 4200	PROJECT TITLE AND LOCATION LOOK LEWISTON / PORTER NY	CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GOV'T. APPROVAL
--	---	---

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number, etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. (See instruction no. 8) c.	NO. OF COPIES d.	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE g.	VARIATION (See instruction No. 6) h.	FOR CE USE CODE i.
				SPEC. PARA. NO. e.	DRAWING SHEET NO. f.			
1	SILT FENCE DETAIL / DESIGN DRAWING		5					A
2	FENCE & FENCE POST MANUFACTURE'S LT.							
3	GRAVEL DAM OUTLET DETAIL							
4	STONE CERTIFICATIONS (NYDOT #4 & #2)							
5	ROCK DAM DETAIL							
6	GEOTEXTILE SPEC'S & MANUF. LIT.							
7	STONE CERTIFICATIONS (SEE ABOVE)							
8	TEMP DIVERSION DIKE DETAIL / DRAWING							
9	SOIL TESTING PROCEDURES							
10	FIELD DENSITY TESTING PROCEDURE							

REMARKS

- 11 TEMP SEED MIX
- 12 STABILIZE CONSTRUCTION ENTRANCE (SEE SUBMITTAL # 009)
- 13 CALCULATIONS / TAKE OFFS
- 14 AGGREGATE / SUBBASE

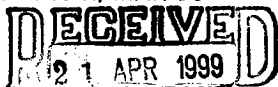
I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

C. DAVIS WILSON

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY H. Walters C.O.R.	DATE 5/6/99
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DAMES & MOORE

A DAMES & MOORE GROUP COMPANY

Sheet No. 1

Calc. No. BUF-99-008

Rev. No. 0.00

By S M B Date 4/5/99

Chk'd. AIN Date 4/6/99

Job No. 03977-011 Job LAKE ONTARIO ORDINANCE WORKS  
Client RADIAN/USACE Subject EROSION/SEDIMENT CONTROL SUBMIT.

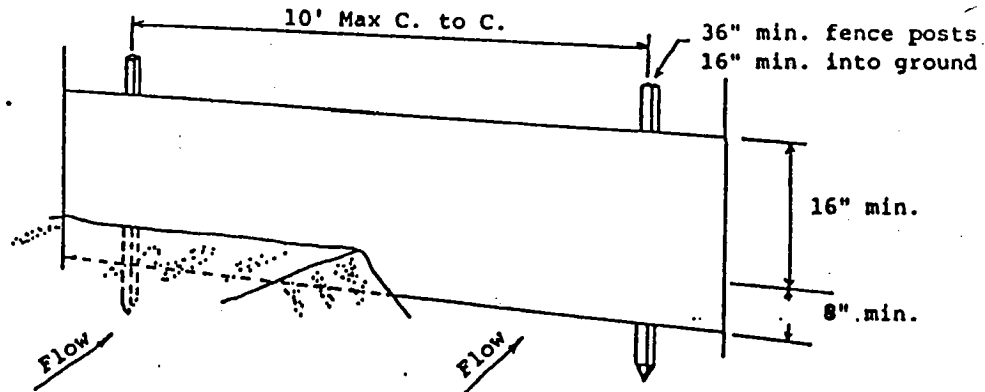
EROSION/SEDIMENT CONTROL SPECIFICATIONS SUBMITAL:

1. SILT FENCE DETAIL/DESIGN DRAWING
2. FENCE + FENCE POST MANUFACTURER'S LITERATURE  
(INCLUDING PRICE QUOTES)
3. GRAVEL DAM OUTLET DETAIL/DESIGN DRAWING
4. STONE CERTIFICATIONS (NYS DOT #4 + #2 STONE)
5. ROCK DAM DETAIL/DESIGN DRAWING
6. GEOTEXTILE SPECIFICATIONS FROM MANUFACTURER + PRICE QUOTE (NON-WOVEN)
7. STONE CERTIFICATIONS (SEE ABOVE)
8. TEMPORARY DIVERSION DIKE DETAIL/DESIGN DRAWING
9. RESULTS OF SOIL TESTING (TBD - TESTING PROPOSALS ENCLOSED)
10. RESULTS OF FIELD DENSITY TESTS (TBD - " " )
11. TEMPORARY SEED MIXTURE
12. STABILIZED CONSTRUCTION ENTRANCE (COVERED UNDER TRUCK ACCESS ROAD)
13. CALCULATIONS/TAKE OFFS TO SUPPORT ABOVE. DETAILS
14. AGGREGATE/SUBBASE BIDS

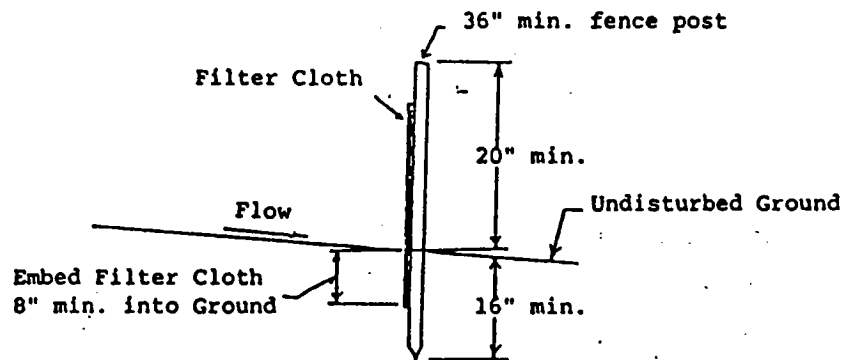
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED	5/5/99	JLL
	Date	Initials
<input type="checkbox"/> APPROVAL RECOMMENDED SUBJECT TO COMMENTS INDICATED	_____	_____
	Date	Initials
<input type="checkbox"/> DISAPPROVAL RECOMMENDED	_____	_____
	Date	Initials
APPROVED/DISAPPROVED	_____	_____
	Date	Signature

## Silt Fence

Standard Symbol -s-s-



Perspective View



### Silt Fence Construction Specifications

1. Silt fences must be embedded, or keyed in, at least 8 inches into the ground. Laying the lower edge of the filter fabric on the ground and covering it with soil is not an acceptable method of keying in. The key-in trench can be excavated by hand or by ditching equipment. After the silt fence is constructed, the trench must be backfilled and compacted.
2. Fence posts must be:
  - a. at least 36 inches long, and
  - b. have a cross sectional area of at least 3 square inches if wooden, or
  - c. weigh at least 1 pound per linear foot if steel T or U type, and
  - d. on 10 foot maximum centers, and
  - e. driven at least 16 inches into the ground.
3. The filter fabric must be fastened securely to the fence posts.
4. When two sections of filter fabric are joined together, the joint must occur at a fence post. The ends of the filter fabric should be overlapped by at least 6 inches, folded, and fastened to the fence post so that no gaps in the fence occur. Manufacturer's recommendations for joining fabric sections may be followed as long as the resulting joint does not create gaps in the silt fence.
5. Silt fence must be located along the contours.
6. Silt fences must be inspected periodically and after each rain event and maintenance performed as necessary.

## MEAD SUPPLY INC.

1415 NIAGARA STREET  
BUFFALO, NEW YORK 14213  
VOICE TELEPHONE: 716-883-6200  
FAX TELEPHONE: 716-883-2766

To:

Jason  
Dames & Moore  
FAX: 675-7137

DATE:

4/7/99

TOTAL PAGES:

2

FROM:

Milt McCall

Your cost on each 36" x 100' roll  
of silt fence w/ stakes is \$22.00.  
I have 5,500 feet in stock.

# Fence Products

## SILT FENCE & GEOTEXTILES

### SEDIMENT EROSION CONTROL

Silt fence is an erosion and sediment control measure used on construction sites to help protect the environment. Silt fences are made of woven fabric and are installed in a line across the site to catch sediment before it enters the water.



### CONTRACTORS GRADE SILT FENCE

(Part Number 14987) Price List Page # 16

Nearly 70% of all construction jobs that require silt fence do not specify the type of fence that must be used. Save money by using Mutual's superior quality non-spec contractors grade silt fence:

- Economical 36" or 24" width silt fabrics (MISF 180)
- 1-1/2" x 1-1/2" (Nominal) hardwood stakes
- Stakes spaced every 10' (10' centers)
- 11 stakes per 100' fabric

If you're stocking a fence with specs other than these for non-spec jobs, your probably paying too much!

**36" x 100 FT**



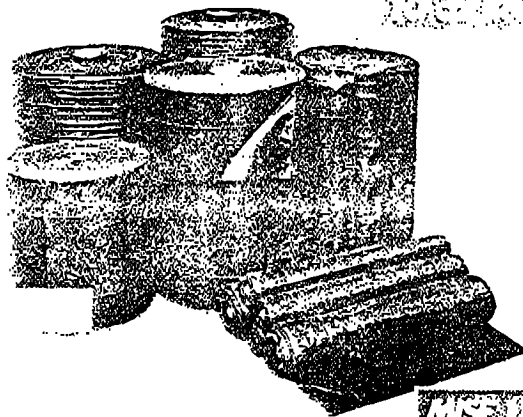
#### Specifications

Grab Tensile: 125 lbs.  
Grab Elongation: 15%  
Mullen Burst: 347 PSI  
Puncture: 60 lbs.  
Trapezoidal Tear: 80 lbs.  
U.V. Resistance: 80% SR  
Permittivity, (1/sec): 30 gal/min

(Part Number 1855)  
Price List Page # 16

#### Specifications

Grab Tensile: 125 lbs.  
Grab Elongation: 15%  
Mullen Burst: 347 PSI  
Puncture: 60 lbs.  
Trapezoidal Tear: 80 lbs.  
U.V. Resistance: 90% SR  
Permittivity, (1/sec): 30 gal/min



(Part Number 44004) Price List Page # 16

Mutual's 10 oz burlap fabric is so versatile and has many different uses in construction, landscaping, and plant nursery. This material is available in both treated (rot-resistant) and untreated rolls of 48" x 100 yd or 48" x 500 yd.

For easier installation, or for smaller applications, see Mutual's pre-assembled burlap "Shrub Freeze Guard" on page 26 of this catalog.

(Part Number 1830)  
Price List Page # 16

#### Specifications

Grab Tensile: 120 lbs.  
Grab Elongation: 20%  
Mullen Burst: 300 PSI  
Puncture: 60 lbs.  
Trapezoidal Tear: 65 lbs.  
U.V. Resistance: 80% SR  
Permittivity, (1/sec): 10 gal/min

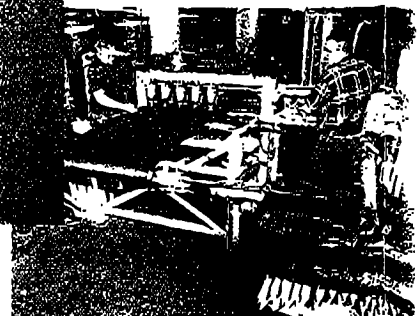
Mutual offers a wide variety of high-quality woven geotextile silt fence fabrics in easily manageable 300' rolls or economical bulk rolls. Choose from a variety of styles and specifications to meet your needs. Both Mutual's MISF 1830 and 1855 meet or exceed most state DOT required specifications. Mutual's more economical MISF 180 will also meet some DOT required specifications.

All of these silt materials are also suitable for some stabilization applications as well as a weed barrier for landscaping.

(Part Number 180)  
Price List Page # 16

#### Specifications

Grab Tensile: 125 lbs.  
Grab Elongation: 15%  
Mullen Burst: 347 PSI  
Puncture: 60 lbs.  
Trapezoidal Tear: 80 lbs.  
U.V. Resistance: 80% SR  
Permittivity, (1/sec): 30 gal/min



**MUTUAL INDUSTRIES**



Albany • Buffalo • Rochester • Syracuse  
Materials • Equipment • Rentals

**FAX TRANSMITTAL**TO: DAMES & MOOREDATE: 4.8.99ATTN: JASONNUMBER OF PAGES: 5  
(Including This Page)FAX NUMBER: 675-7137FROM: DAVE CURRIERE: SPEC SHTS

MESSAGE:

PLS FIND ATTACHED:

- ① SILT FENCE
- ② 160N
- ③ 500X
- ④ HDPE - 40MIL

Any QUESTIONS CALLDave

THANK YOU!

DID YOU KNOW WE ALSO HAVE AVAILABLE:

ADMIXTURES  
ADHESIVES  
AGGREGATES  
ANCHORS + TIE SYSTEMS  
BONDING AGENTS  
CAULK  
CASTING  
CEMENT  
CLEANERS  
COATINGS

CURING/CONCRETE  
DOORS  
DOOR ACCESSORIES  
DOOR FABRICATION SHOP  
DRAINAGE & EROSION CONTROL  
EPOXIES  
EXPANSION JOINT  
FABRIC/GEOTEXTILES  
FLASHING

GROUTS  
NAILS  
INSULATION  
PATCHING MATERIALS  
PIPE  
POLYETHYLENE  
STEEL REINFORCING  
SONOTUBES  
WATERPROOFING  
WATERSTOPS



**Albany • Buffalo • Rochester • Syracuse**  
**Materials • Equipment • Rentals**

**(1) OF (1)**

TO: DAMES & MOORE

ATTN: JASON

**WE ARE PLEASED TO OFFER THE FOLLOWING QUOTATION:**

## Quotation

**BID DATE:**

DATE: 4-8-99

## REFERENCE

LEWISTON-PORTER  
DEMO PROJECT

[illegible]

**Freight = Y - Yes Does Include Freight**

**N - Does Not Include Freight**

**KEYSTONE BUILDERS SUPPLY CO., INC.**

**TITLE:** \_\_\_\_\_

DATE: \_\_\_\_\_

BY: **DAVE CURRIE**  
SALES REPRESENTATIVE

# Indian Valley Industries

## Silt Fence

### 3611 Construction Grade

A Woven Sedimentation Fabric of 100% Polypropylene SLIT FILM Yarns. A Silt Fence designed primarily for use on private sector projects, yet meets many state and federal requirements

#### FX-7 Silt Fence

#### PRODUCT TEST DATA

Property	Test Method	English	Metric
Weight	ASTM D-3776	2.6 oz/sy	88 gm/sm
Tensile Strength	ASTM D- 4632	65lbs	290N
Elongation @ Break	ASTM D- 4632	20%	20%
Mullen Burst	ASTM D- 3786	180 psi	1240 kPa
Puncture Strength	ASTM D- 4833	45lbs	200N
Trapezoidal Tear	ASTM D- 4533	30lbs	135N
Apparent Opening Size	ASTM D- 4751	20-30 US Sieve	0.850-0.600mm
Permittivity	ASTM D- 4491	0.20sec (-1)	0.20sec (-1)
U.V. Resistance % Retained (500hrs)	ASTM D- 4355	90	90

Test results represent Minimum Average Roll Values (MARV) with the exception of weight which is a typical result.

Area Distributor:

**KEYSTONE BUILDERS SUPPLY**  
**4388 BROADWAY**  
**DEPEW NY 14043**  
**(716) 681-4085**

For additional information on other Indian Valley Industries construction products and your area distributor, please contact:

Indian Valley Industries, Inc.  
P.O. Box 810  
Johnson City NY 13790  
Ph. (607) 729-5111 / (800) 659-5111 / Fax. (607) 729-5158





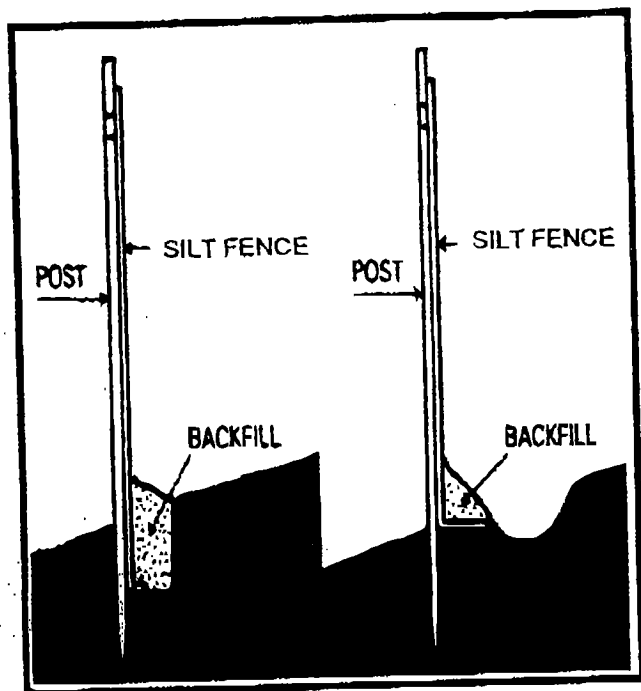
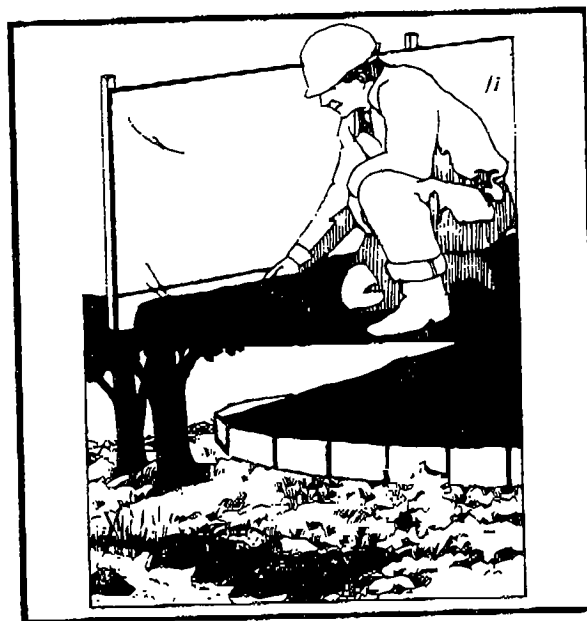
# HARRIS SILT FENCE WITH OAK POST

## DESCRIPTION

**HARRIS SILT FENCE** with attached hardwood posts is self supporting, UV stabilized polypropylene silt fence to contain sediment runoff. Also available with plastic mesh backing.

## SPECIAL FEATURES

- Depth gauge that ensures adequate toe-in of the silt fence.
- Treated to ensure protection against sunlight degradation.
- Very economical.
- Attached 4' oak posts.



## INSTALLATION

1. Dig a (4" to 6") trench along the intended fence line.
2. Lay out Silt Fence along the trench line.
3. Stretch Silt Fence tautly.
4. Drive all posts into the ground at back side of fence.
5. Drape bottom 6" of Silt Fence (below red gauge line) in trench, backfill with soil and compact.

**HARRIS**

**SILT FENCE  
W/ OAK POSTS**

## HARRIS SILT FENCE MINIMUM PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	2130	
		AMERICAN STANDARD	METRIC
Grab Tensile	ASTM D-4632	124 Lbs	550 N
Grab Elongation	ASTM D-4632	15%	15%
Mullen Burst	ASTM 3786	300 psi	2060kPa
Puncture	ASTM 4833	65 Lbs	290 N
Trapezoidal Tear	ASTM D-4533	65 Lbs	290 N
U.V. Resistance (strength retained)	ASTM 4355	80% @ 500 Hrs	80% @ 500 Hrs
Apparent Opening Size	ASTM D-4751	#30 Sieve	0.60 mm
Permittivity	ASTM 4491	0.05 sec	0.05 sec
Flow Rate	ASTM4491	10 GAL/MIN/FT <sup>2</sup>	7L/sec/m <sup>2</sup>

### MESH BACKING SPECIFICATIONS

● Material	Polypropylene
● Color	Black
● Strand Count	2.7 x 2.7
● PMSF	7.34
● Weight, G/sq. yd.	30.0
● FDA Status	Conforms to CFT 117.1520
● Tensile Strength	42-12 # Min. per 3"
● U.V. Resistant	4% Carbon Black



Roll Width (ft.)	3
Roll Length (ft.)	100

Silt fence fabric is manufactured for A. H. H:  
by Amoco Fabrics & Fibers.

*Curtis - A.H. Harris*

*\$26.25 / 100 feet*

*4000 = \$1,050*

#### LIMITED WARRANTY

A.H. Harris & Sons, Incorporated ("Harris") warrants that, at the time of shipment to its customer, the product is free from defects which would materially affect the product's ability to perform as represented. IF A EXCLUSIVE REMEDY IS TO HAVE HARRIS REPLACE THE DEFECTIVE PRODUCT WITH A PURCHASE PRICE. IN NO EVENT SHALL HARRIS' LIABILITY, IF ANY, WHETHER FOUND PURCHASE PRICE OF THE DEFECTIVE PRODUCTS NOR SHALL HARRIS BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY CLAIM BROUGHT MORE THAN ONE YEAR AFTER THE SALE OF THE PRODUCT BY HARRIS TO ITS CUSTOMER. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND HARRIS MAKES NO OTHER WARRANTIES WITH RESPECT TO ITS PRODUCTS, EXPRESS OR IMPLIED, INCLUDING NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Harris does not intend any of its products to be used in a way that would infringe any patent or copyright.



# SCRANTON'S THRUWAY BUILDERS SUPPLIES CORP.

3380 WALDEN AVENUE DEPEW, NY 14043  
TELEPHONE (716) 684-5800 • NIAGARA COUNTY (716) 625-9444 • FAX (716) 684-1915.

## QUOTATION

Firm

DAVES &amp; MOORE

Address:

Date

4/8

Individual

JASON

Phone

Fax

Job Name

Job Address

Quantity	We are pleased to quote your requirements as follows:	Unit Price	Total
①	STABILIZATION FABRIC 11000 - 14500 SY		
	A. MIRAFI 600 X WOVEN	.702 / SY	
	B. MIRAFI 160N NON WOVEN	.676 / SY	
	C. GG 600 60Z NON WOVEN	.546 / SY	
②	FILTER / DRAINAGE FABRIC 11000 - 14500 SY		
	A. MIRAFI 140NL NON WOVEN	.533 / SY	
	B. GG 400 40Z " "	.41 / SY	
③	SILT FENCE 3900 LT		
	24"	24.40 / ROLL	
	36"	27.65 / ROLL	
Terms:			

Accepted

By

Date

Scranton's  
Representative

If accepted as an order,  
please sign and return one copy.

### QUOTATION SUBJECT TO THE CONDITIONS SET FORTH

The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by the seller. All quotations and agreements are contingent upon strikes, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the seller before final acceptance.

CUSTOMER COPY

# G & G FABRICATING CO., INC.

930 HENDERSON BLVD., FOLCROFT, PA 19032

800-948-1770

FAX: 610-583-9853

STOCKING DISTRIBUTORS OF **NICOLON MIRAFI** GEOTEXTILES  
GROUP

## SILT FENCING

Pre-assembled Woven Polypropylene DOT fabric fencing for filtration of silt from water runoff on disturbed soil. Easy to install, will control sediment surrounding construction sites that heavy rain can carry onto adjacent roads and into drainage ditches. Protect lakes, streams and other waterways from silt build-up. Will keep roadways clear. Defines building area. DOT approved in many states.

### UNITS MEASURE:

24" X 100' w/ 11 36" x 1 1/2" nominal Hardwood Stakes Attached

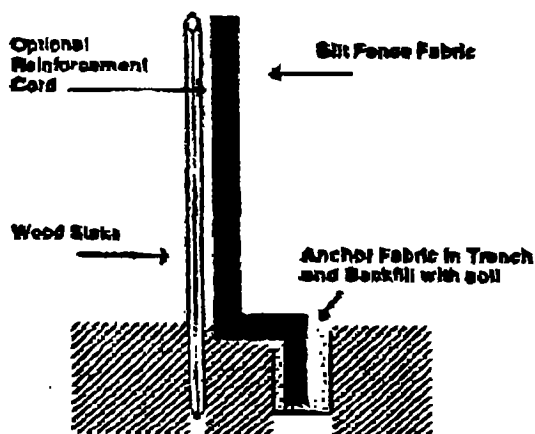
OR

36" X 100' w/ 11 42" x 1 1/2" nominal Hardwood Stakes Attached

PRICING:	Quantity	24" - Per Unit	36" - Per Unit
	50 to 100	\$ _____	\$ _____
	101 to 200	\$ _____	\$ _____
	201 to 500	\$ _____	\$ _____
	501 or more	\$ _____	\$ _____

We can fabricate to meet special project requirements. Materials available in rolls w/o stakes. Add

TOP CORD-  
PLASTIC WEB BACKING-  
STAKE POCKETS-

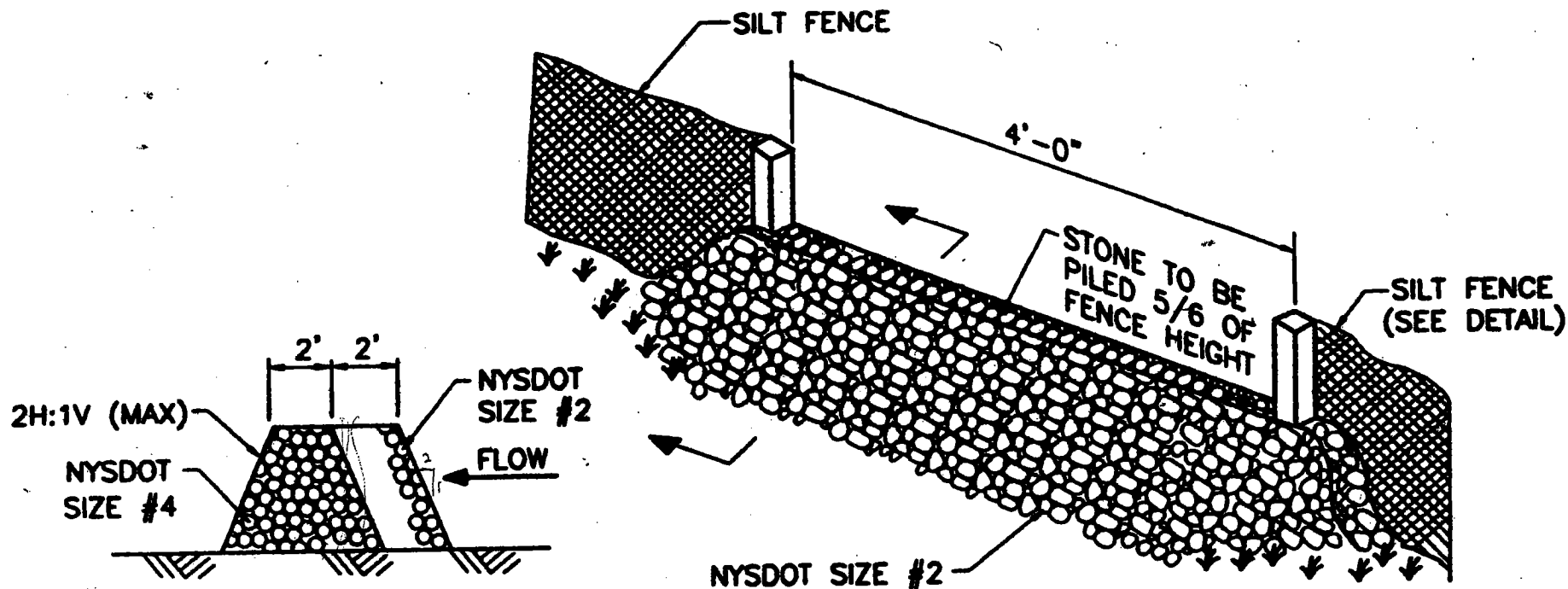


Material: AMOCO 2127, MARV:

Grab Tensile, lbs	W95/F80
Grab Elongation, %	15
Trapezoidal Tear, lbs	60
Mullen Burst, psi	250
Puncture, lbs	30
UV Resistance, %	80
AOS, U S Sieve No.	10-30
Flow Rate, gal/min/sq ft	30
Permittivity, sec-1	0.4

4/96

BURLAP      GEOTEXTILES      GEO-GRID      GROUND COVER      JUTE MAT      PAVING FABRICS      SANDBAGS  
SEDIMENT FILTER BAGS      SILT FENCE      SISAL TWINE      SITE DRAINAGE      WIRE TIES      XCEL MAT



**SECTION**

**GRAVEL OUTLET DETAIL**

N.T.S.

**NOTES:**

1. GRAVEL OUTLETS TO BE PROVIDED AT ALL EXISTING OR GRADED LOW POINTS, EVERY 150 FEET, AND ALL AREAS OF POTENTIAL CONCENTRATED FLOWS.
2. IF INSPECTION OF SILT FENCE REVEALS UNDERMINING OR OVERTOPPING OF THE FENCE, REMOVE PORTION OF SILT FENCE AND REPLACE WITH A GRAVEL OUTLET.
3. ACCUMULATED SEDIMENTS WILL BE REMOVED WHEN ACCUMULATION REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

Date: 9/10/98

Location: Lockport

Source #: 5-5R

Material Type: NYSDOT 703-02 Size 4

Sieve Size	Weight	% Retained	% Passing	Specification
100mm		0	100	100
75mm	2.5	3.9	96.1	90-100
63mm	24.5	38.1	58	
50mm	35.8	55.7	2.3	0-15
37.5mm		0	2.3	
25mm		0	2.3	
12.5mm		0	2.3	
6.3mm		0	2.3	
3.2mm		0	2.3	
.180mm		0	2.3	
pan	1.5	2.3		
Total	64.3			

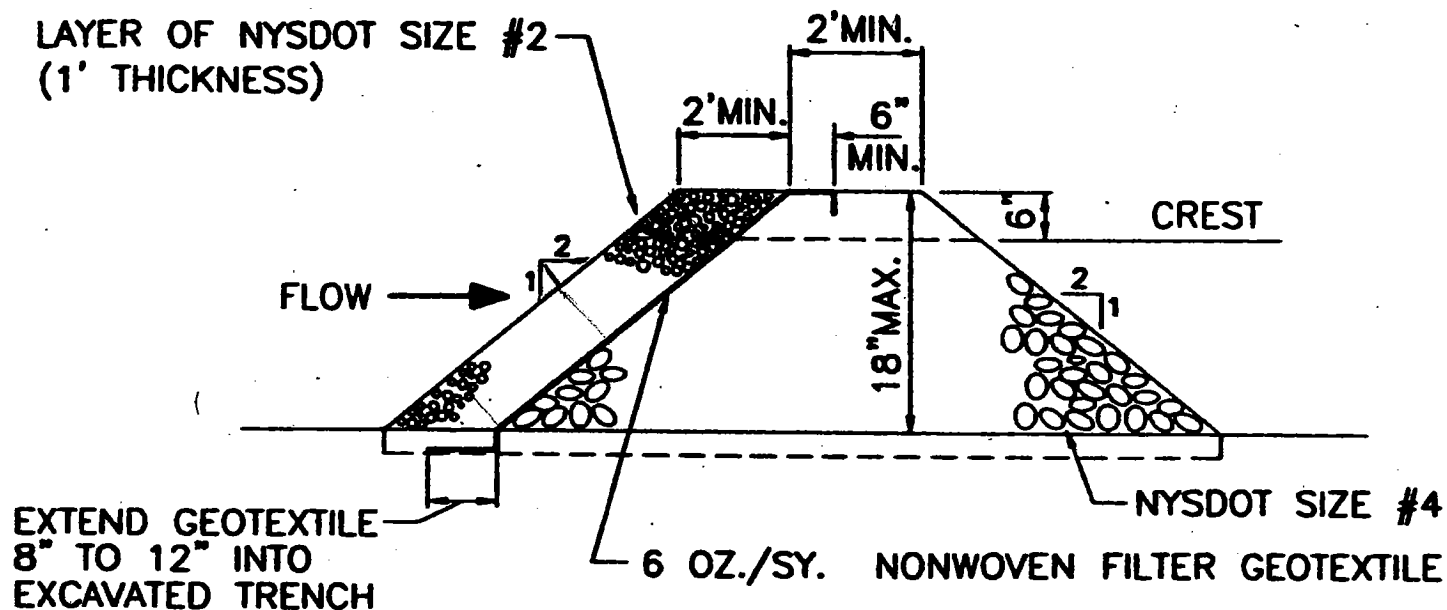
Date: 9/10/98

Location: Lockport

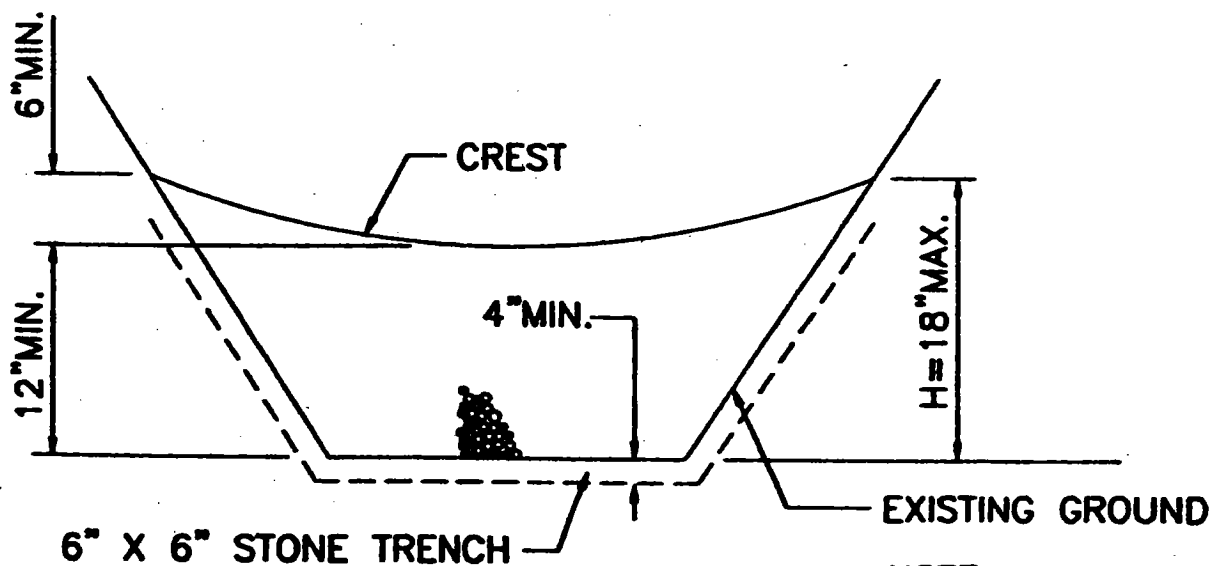
Source #: 5-5R

Material Type: NYSDOT 703-02 Size 2

Sieve Size	Weight	% Retained	% Passing	Specification
100mm		0	100	
75mm		0	100	
63mm		0	100	
50mm		0	100	
37.5mm		0	100	100
25mm	0.8	0.7	99.3	90-100
12.5mm	103.1	90	9.3	0-15
6.3mm	9.5	8.3	1	
3.2mm		0	1	
.180mm		0	1	
pan	1.1	1		
Total	114.5			



## CROSS SECTION



## PROFILE

## ROCK DAM DETAIL

N.T.S.

### NOTE:

EXTEND ROCK DAM  
FOR FULL WIDTH OF  
SWALE OR CHANNEL





# SCRANTON'S THRUWAY BUILDERS SUPPLIES CORP.

3380 WALDEN AVENUE DEPEW, NY 14043  
TELEPHONE (716) 684-5800 • NIAGARA COUNTY (716) 625-9444 • FAX (716) 684-1915.

## QUOTATION

Firm

DAVES &amp; MOORE

Address:

Date

4/8

Individual

JASON

Phone

Fax

Job Name

Job Address

Quantity

We are pleased to quote your requirements as follows:

Unit Price

Total

① STABILIZATION FABRIC 11000 - 14500 SY

A. MIRAFI 600 X WOVEN

.702 / SY

B. MIRAFI 160 N NON WOVEN

.676 / SY

C. GG 600 60Z NON WOVEN

.546 / SY

② FILTER / DRAINAGE FABRIC 11000 - 14500 SY

A. MIRAFI 140 NL NON WOVEN

.533 / SY

B. GG 400 40Z " "

.41 / SY

3 SILT FENCE 3900 LT

24"

24 40 / ROLL

36"

27 65 / ROLL

Terms:

Accepted

By

Date

Scranton's  
Representative

If accepted as an order,  
please sign and return one copy.

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# G & G FABRICATING CO., INC.

930 HENDERSON BLVD., FOLCROFT, PA 19032  
800-948-1770 FAX: 610-583-9853

STOCKING DISTRIBUTORS OF **NICOLON/MIRAFI** GEOTEXTILES  
GROUP 42

## NICOLON/MIRAFI 160N Nonwoven Polypropylene

APPLICATIONS: Soil Separation Filtration Protection

<u>PROPERTY:</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>MARV</u>
Grab Tensile:			
Strength @ Ult. (MD)	ASTM D-4632	lbs	160
Strength @ Ult. (CMD)	"	"	160
Elongation @ Ultimate	"	%	50
Mullen Burst	ASTM D-3786	psi	325
Trapezoidal Tear	ASTM D-4533	lbs	60
Puncture	ASTM D-4833	lbs	95
Apparent Opening Size	ASTM D-4751	U.S. Sieve	70
Permittivity	ASTM D-4491	Sec-1	1.4
Permeability	"	cm/sec	0.28
Flow Rate	ASTM D-4491	gal/min/sqft	110

Roll Size: 15' X 300' = 500 SY Est. Weight = 205 lbs

Delivered      FOB      - Cost per square yard \$           

Seller makes no warranty, express or implied, concerning the product furnished hereunder other than that it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded and, in the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by Seller concerning uses or applications of said product are believed reliable and Seller makes no warranty of results to be obtained.

G&G Fabricating Co., Inc. certifies that the material ordered by your                                  meets the above specifications.

By                                  Title                                 

N160N

4/98

PennDOT Approved 1

OVERLAP

GEOTEXTILES

GEO-GRID

GROUND COVER

JUTE MAT

PAVING FABRICS

SANDBAGS

SEDIMENT FILTER BAGS

SILT FENCE

Sisal TWINE

SITE DRAINAGE

WIRE TIES

XCCL MAT

# G. & G. Fabricating Co.



## FABRICATORS OF SPECIALTY ITEMS

MAILING ADDRESS  
55 Woodlawn Avenue  
Broomall, PA 19008

Phone (610) 583-9852  
FAX (610) 583-9853

SHIPPING ADDRESS  
930 Henderson Blvd.  
Folcroft, PA 19032

### NEEDLEPUNCHED NONWOVENS

#### STYLE GG-600

GG-600 is a 6 oz per square yard needlepunched non-woven fabric with the following values:

TYPICAL PROPERTY:	TEST METHOD:	VALUE:
GRAB TENSILE	ASTM D-4632	170 lbs
GRAB ELONGATION	ASTM D-4632	50 %
MULLEN BURST	ASTM D-3786	310 psi
PUNCTURE	ASTM D-3787	90 lbs
TRAPEZOID TEAR	ASTM D-4533	65 lbs
AOS, U.S.Std.Sieve	ASTM D-4751	70-100
PERMEABILITY	ASTM D-4491	0.20 cm/sec

STANDARD PUT-UP is 12.5' X 300' but we can fabricate to almost any size your project would require.

PRICING: \$ \_\_\_\_\_

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Except when agreed to in writing for specific conditions of use, no warranty or guarantee expressed or implied is made regarding the performance of any product since the manner of use and handling are beyond our control. Nothing contained herein is to be construed as a recommendation to infringe on any patent.

Additional information or samples can be obtained by contacting us at the telephone or fax numbers above.

# G & G FABRICATING CO., INC.

930 HENDERSON BLVD., FOLCROFT, PA 19032  
800-948-1770 FAX: 610-583-9853

STOCKING DISTRIBUTORS OF **NICOLON/MIRAFI** GEOTEXTILES

NICOLON/MIRAFI 140NL  
Nonwoven Polypropylene

APPLICATIONS: Soil Separation Filtration Protection

<u>PROPERTY:</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>MARV</u>
Grab Tensile:			
Strength @ Ult. (MD)	ASTM D-4632	lbs	90
Strength @ Ult. (CMD)	"	"	90
Elongation @ Ultimate	"	%	50
Mullen Burst	ASTM D-3786	psi	190
Trapezoidal Tear	ASTM D-4533	lbs	35
Puncture	ASTM D-4833	lbs	55
Apparent Opening Size	ASTM D-4751	U.S. Sieve	70
Permittivity	ASTM D-4491	Sec-1	2.0
Permeability	"	cm/sec	0.29
Flow Rate	ASTM D-4491	gal/min/sqft	150

Roll Size: 12.5' X 360' = 500 SY Est. Weight = 125 lbs  
15' X 360' = 600 SY " " = 160 lbs

Delivered      FOB      -Cost per square yard \$     

Seller makes no warranty, express or implied, concerning the product furnished hereunder other than that it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by Seller concerning uses or applications of said product are believed reliable and Seller makes no warranty of results to be obtained.

G&G Fabricating Co., Inc. certifies that the material ordered by your                      meets the above specifications.

By    Title   

N140NL 4/98

PennDOT Approved 1

UNLAP GEOTEXTILES GEO-GRID GROUND COVER JUTE MAT PAVING FABRICS SANDBAGS  
EQUIPMENT FILTER BAGS SILT FENCE GIGAL TWINE SITE DRAINAGE WIRE TIES XCEL MAT

5

# G. & G. Fabricating Co.



## FABRICATORS OF SPECIALTY ITEMS

MAILING ADDRESS  
5 Woodlawn Avenue  
Pottsville, PA 19008

Phone (610) 583-9852  
FAX (610) 583-9853

SHIPPING ADDRESS  
930 Henderson Blvd.  
Pottsville, PA 19002

### NEEDLEPUNCHED NONWOVENS

#### STYLE GG-400

GG-400 is a 4 oz. per square yard needlepunched non-woven fabric with the following values:

TYPICAL PROPERTY:	TEST METHOD:	VALUE:
GRAB TENSILE	ASTM D-4632	120 lbs
GRAB ELONGATION	ASTM D-4632	50 %
MULLEN BURST	ASTM D-3786	215 psi
PUNCTURE	ASTM D-3787	60 lbs
TRAPEZOID TEAR	ASTM D-4533	55 lbs
AOS-Std U.S. Sieve	ASTM D-4751	70-100
PERMEABILITY	ASTM D-4491	0.20 cm/sec

STANDARD PUT-UP is 12.5' X 300' but we can fabricate to almost any size your project would require.

PRICING: \$ \_\_\_\_\_

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Except when agreed to in writing for specific conditions of use, no warranty or guarantee expressed or implied is made regarding the performance of any product since the manner of use and handling are beyond our control. Nothing contained herein is to be construed as a recommendation to infringe on any patent.

Additional information or samples can be obtained by contacting us at the telephone or fax numbers above.



Albany • Buffalo • Rochester • Syracuse  
Materials • Equipment • Rentals

**FAX TRANSMITTAL**TO: DAMES & MOOREATTN: JASONFAX NUMBER: 675-7137FROM: DAVE CURRIERE: SPEC SHTSDATE: 4.8.99NUMBER OF PAGES: 5  
(Including This Page)

## MESSAGE:

PLS FIND ATTACHED:

- ① SILT FENCE
- ② 160N
- ③ 500X
- ④ HDPE - 40MIL

Any questions call

THANK YOU!

DID YOU KNOW WE ALSO HAVE AVAILABLE:

ADDMIXTURES  
ADHESIVES  
AGGREGATES  
ANCHORS + TIE SYSTEMS  
BONDING AGENTS  
CAULK  
CASTING  
CEMENT  
CLEANERS  
COATINGS

CURING/CONCRETE  
DOORS  
DOOR ACCESSORIES  
DOOR FABRICATION SHOP  
DRAINAGE & EROSION CONTROL  
EPOXIES  
EXPANSION JOINT  
FABRIC/GEOTEXTILES  
FLASHING

GROUTS  
NAILS  
INSULATION  
PATCHING MATERIALS  
PIPE  
POLYETHYLENE  
STEEL REINFORCING  
SONOTUBES  
WATERPROOFING  
WATERSTOPS



**Albany • Buffalo • Rochester • Syracuse**  
**Materials • Equipment • Rentals**

**(1) OF (1)**

TO: DAMES & MOORE

ATTN: JASON

**WE ARE PLEASED TO OFFER THE FOLLOWING QUOTATION:**

# Quotation

**BID DATE:**

DATE: 4-8-99

## REFERENCE

LEWISTON-PORTER  
DEMO PROJECT

[illegible]

**Freight = Y - Yes Does Include Freight**  
**N - Does Not Include Freight**

**TITLE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**KEYSTONE BUILDERS SUPPLY CO., INC.**

BY: **DAVE CURRIE**  
SALES REPRESENTATIVE

# Mirafi 160N Technical Data

## Product Description

Mirafi 160N is a needlepunched nonwoven geotextile composed of polypropylene filaments which are formed into a stable network such that the filaments retain their relative position. The fabric is inert to biological degradation and naturally encountered chemicals, alkalies, and acids. Mirafi 160N conforms to the property values listed in the following table.

Property	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	203 (6.0) <sup>1</sup>
Thickness	ASTM D 5199	mm (mils)	1.9 (75) <sup>1</sup>
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.71 (160)
Grab Tensile Elongation	ASTM D 4632	%	50
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2239 (325)
Puncture Strength	ASTM D 4833	kN (lbs)	0.42 (95)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.27 (60)
Apparent Opening Size	ASTM D 4751	U.S. Std. Sieve	70 (0.212 mm)
Permittivity	ASTM D 4491	sec <sup>-1</sup>	1.5
Permeability	ASTM D 4491	cm/sec	0.28
Flow Rate	ASTM D 4491	lpm/m <sup>2</sup> (gpm/ft <sup>2</sup> )	4889 (120)
UV Resistance after 500 hours	ASTM D 4355	% strength retained	70

## Mirafi 160N Packaging

STYLE NUMBER	60615
ROLL DIMENSIONS - METERS (FEET)	4.6 X 91.5 (15 x 300)
SQUARE METERS (SQUARE YARDS) PER ROLL	418 (500)
ESTIMATED ROLL WEIGHT - KG (LBS)	93 (205)

<sup>1</sup> Typical Value





April 9, 1999

Via Facsimile/US Mail

Mr. Jason Brydges  
Dames & Moore  
3065 Southwestern Boulevard  
Orchard Park, New York 14127

SUBJECT: Quotation Per Request

Dear Mr. Brydges:

This quotation is per your request of April 8, 1999. All materials are delivered to Lewiston, New York. Unloading, storing, and installation are by you.

- I. 40 mil High Density Polyethylene  
9 rolls, 22.5' x 650' = 131,625 S. F.  
Cost: \$17,396
- II Woven Polypropylene Geotextile  
36 rolls, 12' x 300' = 14,400 S.Y.  
Cost: \$13,709
- III. Non Woven Polypropylene Geotextile  
6 oz. 24 rolls, 15' x 360' = 14,444 S.Y.  
Cost: \$7,636

Total Cost: \$38,741

Specifications are attached.

This price quote is valid for thirty (30) days. Terms are NET 30 from date of invoice; there is no retention permitted. Invoices over 30 days outstanding will accrue 1.5% interest per month. Sales and use taxes are in addition to the above terms.

Sincerely,  
SLC Constructors, Inc.

  
Donald J. Kuhn

President

/lac

Attachment

A:899-048.DOC (DJK #4 DISK)

I.	40 mils	Nominal Thickness
	0.28 g/10 min	Melt Flow Index
	0.948 g/cm <sup>3</sup>	Density
	88 lb./in. width	Tensile
	700%	Elongation a Break
	52 lbs.	Puncture
II.	5.8 oz./yd <sup>2</sup>	
	5-6%	Opening
	70 - U.S. sieve	AOS
	18 gal./min./ft.	Permitivity
	135 lbs.	Puncture
	480 psi	Mullen Burst
III.	6 oz/yd <sup>2</sup>	
	65 mils	Thick
	160 lbs./n	Grab Tensile
	50%	Grab Elongation
	80 lbs./n	Puncture Resistance
	135 gpm/ft <sup>2</sup>	Water flow rate
	60 sieve	AOS

ADVANTAGE

Construction Specialties  
Since 1916

A.H. HARRIS &amp; SONS, INC.

3605 California Road

Orchard Park, NY 14127

(PH) 716-667-3333 • (Fax) 716-667-6390

FAX

Company:

Dames + Moore

Date:

4/7/99

Attention:

Jason

Pages including cover sheet

91

From:

Curtis

Remarks:

☐

Urgent

☒

For your review

☐

Requ. ASAP

☐

Please comment

Jason,Here are the prices you are looking for:

Non-woven

Amoco 455129 rolls\$ 207.85 / EA.Total: \$ 6027.65

woven

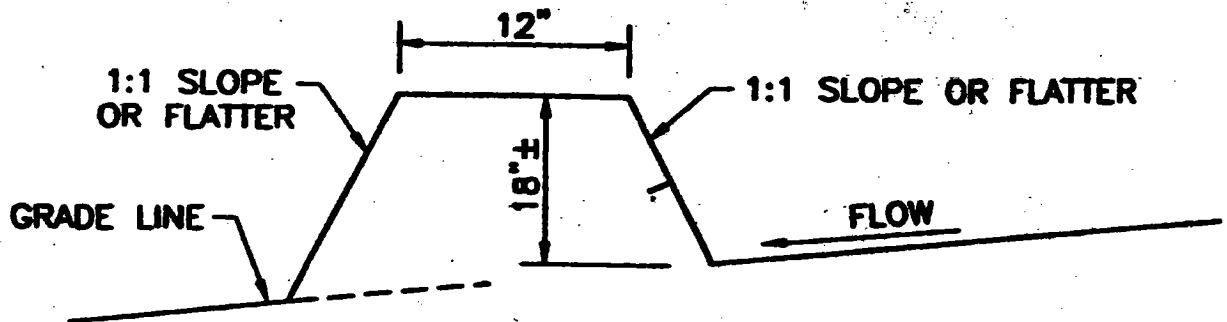
Amoco 200221 rolls\$ 224.64 / EA.Total: \$ 4717.44Tax \$ 859.61\$ 11,604.70Any Questions please call. Thanks!!Curtis

Attn: Jason

A COMPLETE LINE OF NONWOVEN GEOTEXTILES  
THAT HELP YOU DESIGN WITH CONFIDENCE

4550		4551		4552		4553		4504		4503
American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard
N/A		N/A		N/A		N/A		4.0	135	6.0
130	0.575	150	0.665	180	0.800	203	0.900	95	0.420	150
50		50		50		50		50		50
265	1820	315	2170	350	2410	400	2750	225	1550	350
80	0.355	90	0.400	105	0.465	130	0.575	65	0.285	90
55	0.240	65	0.285	75	0.330	80	0.355	35	0.155	65
70/500		70/500		70/500		70/500		70/500		70/500

4550		4551		4552		4553		4504		4503
American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard	Metric	American Standard
70	0.212	100	.150	100	.150	100	.150	70	0.212	70
1.7		1.7		1.5		1.5		2.0		
N/A		N/A		N/A		N/A		0.20		
115	4685	110	4480	105	4275	80	3255	140	5700	90
15	4.6	15	4.6	15	4.6	15	4.6	15	4.6	15
300	91	300	91	300	91	240	73	1200	365	900
180	80	215	100	250	115	230	105	560	255	630
500	418	500	418	500	418	400	334	2000	1672	1500



## CROSS SECTION

### CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE MADE WIDER AND SIDE SLOPES FLATTER BY THE CONTRACTOR IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. STABILIZE DIKE BY APPLYING TEMPORARY SEEDING IN ACCORDANCE WITH VEGETATIVE STABILIZATION SPECIFICATION.
5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED.

## TEMPORARY DIVERSION DIKE



# Quality Inspection Services, Inc.

186 Warwick Ave. • P.O. Box 732 • Buffalo, New York 14215-0732  
(716) 836-0131 • Fax (716) 836-9608

Visit Us At: [www.qisi.com](http://www.qisi.com) E-Mail: [buffalo@qisi.com](mailto:buffalo@qisi.com)

April 7, 1999

Dames & Moore  
3065 Southwestern Blvd.  
Orchard Park, New York 14127

Attention: Mr. Jake Nello

Reference: Construction Testing Services  
Lewiston Porter Landfill

Dear Mr. Nello:

With reference to our recent telephone conversation, we would be pleased to present our proposal to perform testing and inspection services for the above referenced project in Lewiston, New York. We understand that the services you may require on this project are soils laboratory and field testing.

Quality Inspection Services, Inc. maintains an experienced staff of certified technicians and inspectors. Our laboratory is fully equipped with new equipment to handle all of your testing needs, with immediate response and rapid turnaround of all computer generated reports.

I have attached our cost summary for your review and acceptance. We are in a position to staff this project with a minimum of 24 hours notification prior to sample pickup or required field testing.

I look forward to receiving your formal authorization to proceed with this work and to continue a professional relationship with your company.

Warren, PA Office  
920 Pennsylvania Avenue West  
Warren, Pennsylvania 16365  
(814) 726-1988 • Fax (814) 726-7850



**Sustaining Member**

East Syracuse Office  
6730 Myers Road  
East Syracuse, New York 13057  
(315) 431-4291 • Fax (315) 431-4292

***For Job Satisfaction - Think Quality***



# Quality Inspection Services, Inc.

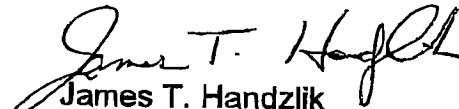
186 Warwick Ave. • P.O. Box 732 • Buffalo, New York 14215-0732  
(716) 836-0131 • Fax (716) 836-9608

Visit Us At: [www.qisi.com](http://www.qisi.com) E-Mail: [buffalo@qisi.com](mailto:buffalo@qisi.com)

Dames & Moore  
April 7, 1999  
Page 2

If you should have any questions, please do not hesitate to contact our office at any time.

Sincerely,  
Quality Inspection Services, Inc.

  
James T. Handzlik  
Operations Manager

PROPOSAL ACCEPTED BY: \_\_\_\_\_

DATE ACCEPTED: \_\_\_\_\_

Warren, PA Office  
920 Pennsylvania Avenue West  
Warren, Pennsylvania 16365  
(814) 726-1988 • Fax (814) 726-7860



**Sustaining Member**

East Syracuse Office  
6730 Myers Road  
East Syracuse, New York 13057  
(315) 431-4291 • Fax (315) 431-4292

**For Job Satisfaction - Think Quality**



# Quality Inspection Services, Inc.

186 Warwick Ave. • P.O. Box 732 • Buffalo, New York 14215-0732  
(716) 836-0131 • Fax (716) 836-9608

Visit Us At: [www.qisi.com](http://www.qisi.com) E-Mail: [buffalo@qisi.com](mailto:buffalo@qisi.com)

## Soils Testing - Price List Lewiston Porter Landfill

<u>Description</u>	<u>Unit Rate</u>
1) Senior Engineering Technician to Perform the following services:	
◦ Field In-Place Density Testing (Nuclear Method) (Troxler included in hourly rate)	
◦ Sampling Clay Pits	
Portal to Portal	\$21.00/hour
Mileage	\$.32/mile
Overtime Rate	\$28.00/hour
2) Laboratory Testing Services	
① Particle Size Analysis of Soils ASTM D 422	\$50.00/each
② Proctor Testing	
◦ ASTM D1557	\$80.00/each
◦ ASTM D698	\$75.00/each
③ Sieve Analysis of Fine and Coarse Aggregate ASTM C 136	\$30.00/each
④ Atterberg Limits ASTM D 4318	\$50.00/each
⑤ Moisture Content ASTM D 3017	\$5.00/each

Warren, PA Office  
920 Pennsylvania Avenue West  
Warren, Pennsylvania 16365  
(814) 726-1988 • Fax (814) 726-7850



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**For Job Satisfaction - Think Quality**



## VEGETATIVE STABILIZATION SPECIFICATIONS

### I. SITE PREPARATION

PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A.) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSION DIKES, BERM, GRASSED WATERWAYS SEDIMENT BASINS, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B.) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

### II. SEEDBED PREPARATION AND SEEDING APPLICATION

THE TOP LAYER OF SOIL SHALL BE LOOSENEED, LIMED AND FERTILIZED BY RAKING, DISCING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING.

### III. SOIL AMENDMENTS (PERMANENT SEEDING ONLY)

LIME AND FERTILIZE ACCORDING TO SOIL TESTS. IN LIEU OF SOIL TEST APPLY THE FOLLOWING:

DOLMITIC LIMESTONE: 2 TONS PER ACRE OR 92 LBS./1000 SF.

FERTILIZER: 5-10-10 OR EQUIVALENT AT 600 LBS./ACRE OR 14 LBS./1000 SF.

### IV. TEMPORARY SEEDING: PER GROWING SEASON

SEED: IN ACCORDANCE WITH SECTION 02935 OF THE SPECIFICATIONS

DATES: 3/15 TO 10/15

### V. PERMANENT SEEDING

SEED: IN ACCORDANCE WITH SECTION 02935 OF THE SPECIFICATIONS

DATES: 4/1 TO 5/31; 8/15 TO 10/15

## **VI. MULCHING**

ALL SEEDINGS REQUIRE MULCHING. USE "MULCH ONLY" DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE.

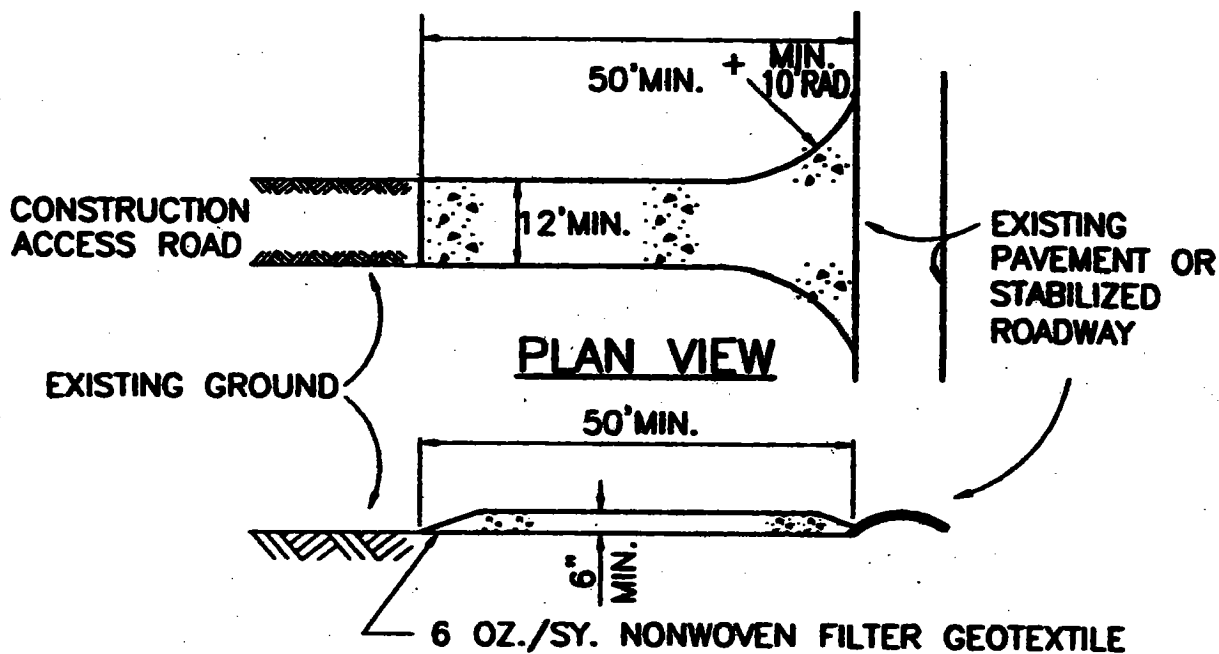
MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 1 1/2 TONS/ACRE OR 70 LBS./1000 SF. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDBEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, PEG AND TWINE OR LIQUID MULCH BINDERS.

LIQUID MULCH BINDER SHALL BE CHEMICAL TACKIFIER APPLIED PER MANUFACTURER'S RECOMMENDATIONS OR AS SPECIFIED IN SECTION 02935 OF THE SPECIFICATIONS.

## **VII. MAINTENANCE**

IRRIGATION - WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION.

REPAIRS - IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.



**PROFILE**

**STABILIZED CONSTRUCTION ENTRANCE**

N.T.S.

**CONSTRUCTION SPECIFICATIONS**

1. STONE SIZE - NYSDOT SIZE #3 OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH - NOT LESS THAN 50 FT.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FT. MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO ROADS MUST BE REMOVED IMMEDIATELY AND PLACED WITHIN THE CLEAN FILL STOCKPILE AREA.
7. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ROADWAYS.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



**DAMES & MOORE**

A DAMES & MOORE GROUP COMPANY

Sheet No. 1/

Calc. No. B-100-99-

Rev. No. 0.00

By ASH Date 4/3/99

Chk'd. JMB Date 4/12/99

Job No. 03977-011 Job TNT LINE REMEDIATION

Client RADIAN/USACOE Subject STABILIZED CONSTRUCTION ENTR.

PROBLEM: DETERMINE WHICH AREAS OF THE LOON PROJECT WILL REQUIRE CONSTRUCTION ENTRANCE STABILIZATION.

REFERENCES: DRAWINGS F 833-90-10 SHEETS # 2, 4, 5  
IN ADDITION A SITE WALKOVER ON 3/31/99  
CLARIFIED CONSTRUCTION ENTRANCE DELINEATION

SOLUTION: PER FIELD VISIT, MOST ACCESS ROADS ARE  
EXTREMELY STABLE. IF, DURING CONSTRUCTION,  
ANY ROADS BEGIN TO SHOW SIGNS OF  
DETERIORATION THEY WILL BE BUILT UP  
AS SHOWN ON THE ATTACHED SKETCH.



Job No. 03977-011 Job LOON

Client RADIAN/USACOR2 Subject SEDIMENT CONTROL SPECS

## EROSION/SEDIMENT CONTROL SPECS

### - SILT FENCING

1<sup>ST</sup> SECTION PIPE REMOVAL (UP-GRADE/ST) (most)

$$\text{LENGTH } (.7' = 100') = 2.9 \div .7 = \boxed{415'}$$

2<sup>ND</sup> SECTION PIPE REMOVAL (NEXT DOWN GRADIENT)

$$\text{LENGTH} = 5 \div .7 = \boxed{715'}$$

3<sup>RD</sup> SECTION PIPE REMOVAL (NEXT DOWN GRADIENT)

$$\text{LENGTH} = 2.2 \div .7 = \boxed{315'}$$

LAST SECTION PIPE REMOVAL (CLOSEST TO WWTP)

$$\text{LENGTH} = 2.3 \div .7 = \boxed{330'}$$

EACH SUMP AREA (10 TOTAL)

APPROXIMATELY 0.8 IN LENGTH FOR EACH (OR 115')

$$\text{TOTAL} = \boxed{1150'}$$

AROUND CLEAN SOIL FILL & BACKFILL

LENGTH = 90' ON EACH SIDE

$$4 \text{ SIDES} \Rightarrow \boxed{360'}$$

### TRAILER PAD

50' X 120' (SIDE NEAR ROAD = NO FENCING)

$$= \boxed{320'}$$

EQUIPMENT & STOCKPILE PAD

200' X 100' (SIDE NEAR ROAD = NO FENCING)

$$= \boxed{400'}$$

$$\text{TOTAL} \Rightarrow \underline{\underline{3905 \text{ FEET}}}$$

### - GRAVEL DAM OUTLET (APPROX 18')

VOLUME OF NYSDOT SIZE #2 STONE  $4' \times 0.84 \times 3.73 = \boxed{12.3 \text{ FT}^3}$

VOLUME OF NYSDOT SIZE #4 STONE  $13.3 + [2 \cdot (\frac{1}{2} \cdot 3.33 \cdot 1.66)] 4 = \boxed{35.4 \text{ FT}^3}$

$$\begin{aligned} \text{TOTAL} &= \#2, 240 \text{ FT}^3 \\ &= \#4, \underline{\underline{637 \text{ FT}^3}} \end{aligned}$$

### - ROCK DAM (APPROX .3, 30' WIDE)

VOLUME OF NYSDOT SIZE #4 STONE  $2 \cdot 1.5 \cdot 30' + 2(\frac{1}{2} \cdot 3 \cdot 1.5) 30 = \boxed{125 \text{ FT}^3}$

VOLUME OF NYSDOT SIZE #2 STONE  $1 \cdot 3.35 \cdot 30' = \boxed{100 \text{ FT}^3}$

SA. OF NONWOVEN GEOTEXTILE  $5' \times 30' = \boxed{150 \text{ FT}^2}$

$$\begin{aligned} \text{TOTAL} &= \#2, 300 \text{ FT}^3 \quad \text{GEOTEXTILE} \\ &= \#4, \underline{\underline{675 \text{ FT}^3}} \quad \underline{\underline{450 \text{ FT}^2}} \end{aligned}$$


**BUFFALO CRUSHED STONE, INC.**  
**CONSTRUCTION MATERIALS**

 2544 Clinton St., P.O. Box 710, Buffalo, NY 14224  
 (716) 826-7310 Fax: (716) 826-1342
TO: JAKE NELLODATE: 4/8/99COMPANY: DAMES & MOOREFAX: 675-7137RE: LAKE ONTARIO ORDINANCE WORKS

We are pleased to quote prices for your use on the referenced project.


<u>TONS (approx.)</u>	<u>MATERIAL</u>	<u>F.O.B. - PLANT</u>	<u>FOR DELIVERY ADD</u>
7000	-2" C/R	\$ 6.40/TON - WEHRLE DR.	\$ 4.40/TON
3000	#1A STONE	9.90/ " - " "	" / "
400	#2 "	7.10/ " - " "	" / "
800	#3 "	6.80/ " - " "	" / "
80	#3+4 MIXED	6.80/ " - " "	" / "
200	#1+2 "	9.20/ " - COMO PARK	" / "
50	TYPE 1 BASE	25.95/ " - WEHRLE DR.	5.40/TON
50	TYPE 3 BINDER	26.90/ " - " "	" / "
25	TYPE 7 TOP	29.30/ " - " "	" / "

**Terms:** Invoices are due and payable the 15 days following date of invoice. All accounts remaining unpaid beyond their due date will be subject to a service or finance charge computed and added to the account by applying a periodic rate of 1 1/2% per month on the unpaid balance. Unless accounts are maintained on a current basis, credit may be suspended.

Any manufacturing, processing or sales tax now in effect or later imposed by the Federal Government, the State Government, or any subdivision thereof, shall be added to the invoices and paid by the purchaser. All orders are subject to the approval of the credit manager.

This quotation can be accepted and becomes effective as a contract upon signature of authorized representatives below. Please sign and return one copy. Acceptance of delivery constitutes acceptance of prices and terms.

We thank you for the opportunity to supply your requirements on this project.

**BUFFALO CRUSHED STONE, INC.**
  
 Richard S. Ruggiero  
 Account Representative

 Approved by: \_\_\_\_\_  
 For: Buffalo Crushed Stone, Inc.  
 Date: \_\_\_\_\_

 Accepted by: \_\_\_\_\_  
 For: \_\_\_\_\_  
 Date: \_\_\_\_\_

Date: 4/7/99

**Job Number**☐ **Tax Exempt**

RADIAN  
% James E. Moore

## Modern LANDFILL

Phone: 675 7137

Person Contacted: Jake Nello

Signed Rich Baudendistel  
mobile 622 9738



**BUFFALO CRUSHED STONE, INC.**  
**CONSTRUCTION MATERIALS**

2544 Clinton St., P.O. Box 710, Buffalo, NY 14224  
(716) 826-7310 Fax: (716) 826-1342

TO: Jake Nello

DATE: 4/9/99

COMPANY: Dames & Moore

FAX: 675-7137

Re: Lake Ontario Ordinance Works

We are pleased to quote prices for your use on the referenced project.

<u>Tons (approx.)</u>	<u>Material</u>	<u>F.O.B. Plant</u>	<u>For Delivery Add</u>
7,000	-2" C/R	\$6.40/ton - Wehrle Dr.	\$4.40/ton
3,000	#1A Stone	\$9.90/ton - Wehrle Dr.	\$4.40/ton
400	#2 Stone	\$7.10/ton - Wehrle Dr.	\$4.40/ton
800	#3 Stone	\$6.80/ton - Wehrle Dr.	\$4.40/ton
80	#3&4 Mixed	\$6.80/ton - Wehrle Dr.	\$4.40/ton
200	#1&2 Mixed	\$9.20/ton - Como Park	\$4.40/ton
50	Type 1 Base	\$25.95/ton - Wehrle Dr.	\$5.40/ton
50	Type 3 Binder	\$26.90/ton - Wehrle Dr.	\$5.40/ton
25	Type 7 Top	\$29.30/ton - Wehrle Dr.	\$5.40/ton

Terms: Invoices are due and payable the 15 days following date of invoice. All accounts remaining unpaid beyond their due date will be subject to a service or finance charge computed and added to the account by applying a periodic rate of 1 1/2% per month on the unpaid balance. Unless accounts are maintained on a current basis, credit may be suspended.

Any manufacturing, processing or sales tax now in effect or later imposed by the Federal Government, the State Government, or any subdivision thereof, shall be added to the invoices and paid by the purchaser. All orders are subject to the approval of the credit manager.

This quotation can be accepted and becomes effective as a contract upon signature of authorized representatives below. **Please sign and return one copy.** Acceptance of delivery constitutes acceptance of prices and terms.

We thank you for the opportunity to supply your requirements on this project.

BUFFALO CRUSHED STONE, INC.

Richard S. Ruggiero  
Account Representative

Approved by: \_\_\_\_\_

For: Buffalo Crushed Stone, Inc.

Date: \_\_\_\_\_

Accepted by: \_\_\_\_\_

For: \_\_\_\_\_

Date: \_\_\_\_\_





**BUFFALO CRUSHED STONE, INC.**  
**CONSTRUCTION MATERIALS**

2544 Clinton St., P.O. Box 710, Buffalo, NY 14224  
(716) 826-7310 Fax: (716) 826-1342

April 13, 1999

Dames & Moore  
3065 Southwestern Blvd.  
Suite 202  
Orchard Park, New York 14127

Attn: Mr. Jake Nello

Via Fax: (716) 675-7137

**RE: Lake Ontario Ordinance Works**

Gentlemen:

We certify the aggregate we supply on the subject project meet the New York State Department of Transportation Specification and Gradations as follows:

**Item 304.03 Type 2 Subbase**  
**-2" Crusher Run Stone**

<u>Sieve Size</u>	<u>Percent Passing</u>
2"	100
1/4"	25-60
No. 40	5-40
No. 200	0-10

**Item 703.02 Size 1A**

<u>Sieve Size</u>	<u>Percent Passing</u>
1/2"	100
1/4"	90-100
1/8"	0-15
No. 200	0-1

**Item 703.02 Size 2**

<u>Sieve Size</u>	<u>Percent Passing</u>
1 1/2"	100
1"	90-100
1/2"	0-15
No. 200	0-1

**Item 703.02 Size 3**

<u>Sieve Size</u>	<u>Percent Passing</u>
2 1/2"	100
2"	90-100
1 1/2"	35-70
1"	0-15
No. 200	0-0.7

**Item 703.02 Size 3 & 4**

<u>Sieve Size</u>	<u>Percent Passing</u>
4"	100
3"	90-100
2 1/2"	25-60
1 1/2"	0-15
No. 200	0-0.7

**Item 703.02 Size 1 & 2**

<u>Sieve Size</u>	<u>Percent Passing</u>
1 1/2"	100
1"	90-100
1/2"	30-60
1/4"	0-10
No. 200	0-1

Our New York State Test Number are Wehrle Drive 97AR1 and Como Park 97AR2.

Enclosed are Job Mix Formulas for Type 1 Base, Type 3 Binder and Type 7 Top.

We trust this meets with your approval.

Very truly yours,



Richard S. Ruggiero  
Account Representative

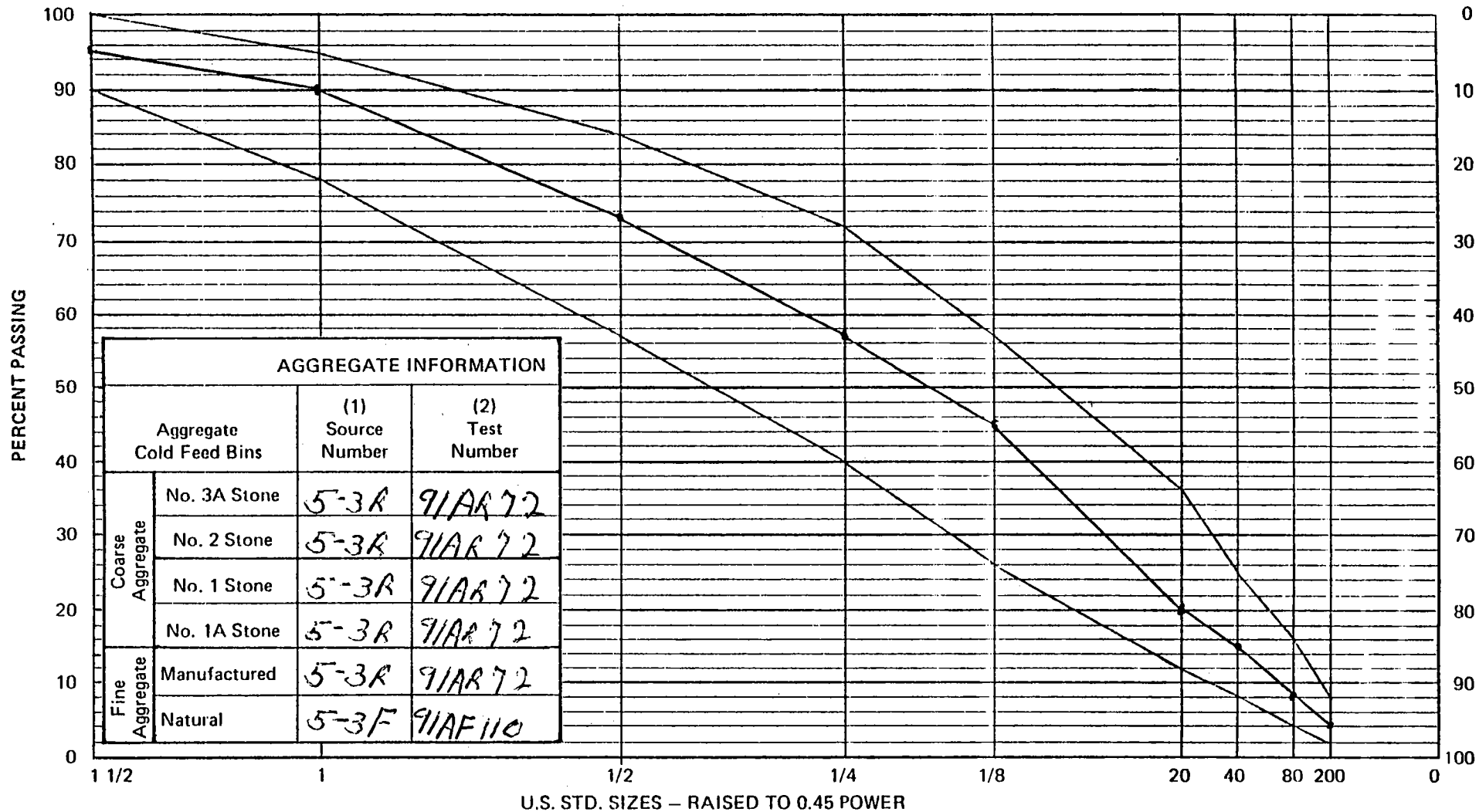


NEW YORK STATE  
DEPARTMENT OF TRANSPORTATION  
MATERIALS BUREAU

## JOB MIX FORMULA

Type 1, Base (Dense)

Region 5 Formula No. \_\_\_\_\_  
Plant Buffalo Crushed Stone Pugmills 12  
Plant Location Lancaster, N.Y.  
Submitted By Schietta Title Materials  
(Submission instructions on back)



Sieve Size	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No. 20	No. 40	No. 80	No. 200	Asphalt Content (Percent)
1. General Limits	100	90-100	78-95	57-84	40-72	26-57	12-36	8-25	4-16	2-8	4.0-6.0
% Passing											
2. JMF Range	100	90/100	85/95	67/79	50/64	38/52	13/27	9/22	4/12	2/6	4.1/4.9
3. Target Value	100	95	90	73	57	45	20	15	8	4	4.5

Asphalt  
Grade  
AC 15F

Remarks \_\_\_\_\_

Approved \_\_\_\_\_ Date \_\_\_\_\_

Regional Director



DEPARTMENT OF TRANSPORTATION  
MATERIALS BUREAU

JOB MIX FORMULA

Type 3, Binder (Dense)

Plant Bu F Falc Crushed Stone

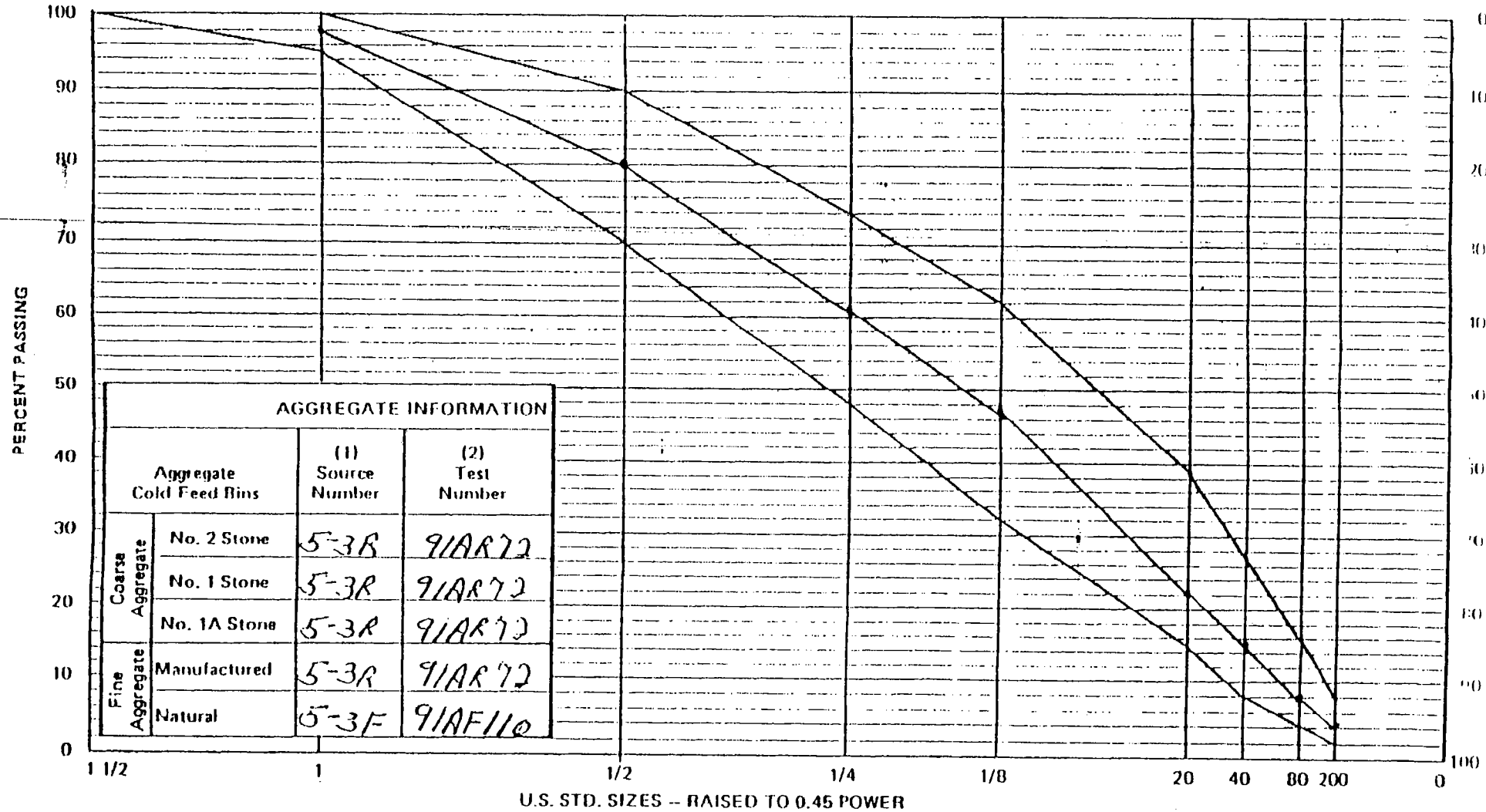
Page No. 4

Plant Location Lancaster, N.Y.

Submitted By S. J. Hutter

Title Material

(Submission instructions on back)



Sieve Size	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No. 20	No. 40	No. 80	No. 200	Asphalt Content (Percent)
1. General Limits		100	95-100	70-90	48-74	32-62	15-39	8-27	4-16	2-8	4.5-6.5
2. JMF Range		100	95/100	74/86	54/68	40/54	15/29	8/22	4/12	2/6	4.4/5.2
3. Target Value		100	98	80	61	47	22	15	8	4	4.8

Aspha  
Grade  
AC13

Remarks

Approved

Regional Director

Date

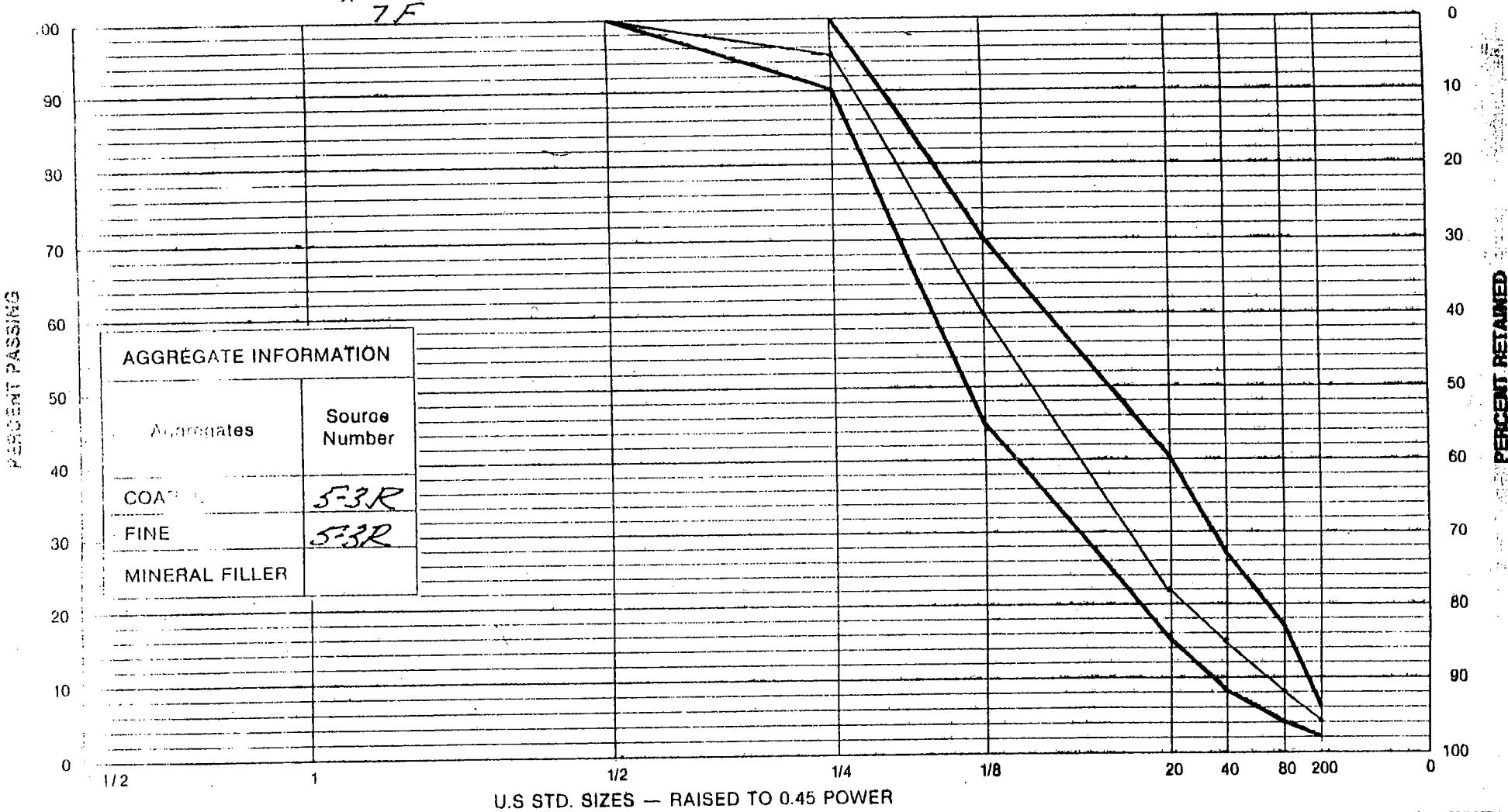
NEW YORK STATE  
DEPARTMENT OF TRANSPORTATION  
MATERIALS BUREAU  
JOB MIX FORMULA

Type 7 Top Course

7F

Facility No. \_\_\_\_\_ Formula No. \_\_\_\_\_  
Plant BUFFALO CRUSHED STONE INC. Region 5  
Plant Location LANCASTER NY  
Submitted By F. SIBETTA Date 1995

(SUBMISSION INSTRUCTIONS ON BACK)



Sieve Size	2"	1 1/2"	1"	1/2"	1/4"	1/8"	No. 20	No. 40	No. 80	No. 200	Asphalt Content (Percent)	Asphalt Grade
1. General Limits				100	90-100	45-70	16-40	8-27	4-16	2-6	6.0-8.0	AC 15 20
2. Min. Value				100	90-100	54-66	15-29	8-22	4-12	2-6	6.0-6.4	
3. Tar Value				100	95	60	22	15	8	4	6.0	

Approved by Regional Director \_\_\_\_\_ Date \_\_\_\_\_  
Remarks \_\_\_\_\_