



DANIEL P. MCCOY
COUNTY EXECUTIVE

COUNTY OF ALBANY
DEPARTMENT OF PUBLIC WORKS
449 NEW SALEM ROAD
VOORHEESVILLE, NEW YORK 12186-4826
(518) 765-2055 - FAX (518) 447-7047
WWW.ALBANYCOUNTY.COM

LISA M. RAMUNDO, P.E.
COMMISSIONER

May 6, 2024

Hon. Joanne Cunningham, Chairwoman
Albany County Legislature
112 State St., Rm. 710
Albany, NY 12207

Dear Chairwoman Cunningham,

We request the Legislature's approval of an agreement with Gorman Brothers, Inc. for Cold in Place Recycling Projects on CR410 (Thayers Corners Rd.) in the Town of Westerlo for a length of 2.22 miles and CR414 (Horseshoe Bend Rd.) in the Town of Westerlo for a length of 1.20 miles.

As part of Albany County DPW's Highway Maintenance Plan, we are planning on using the Cold-In-Place Recycling (CIP) process for approximately 3.42 miles of roadway. CIP is one of the processes we use for maintaining the 290 center lane miles of County highways. The roads chosen for this treatment have deteriorated beyond the point that milling and repaving would be sufficient, but have not deteriorated to the point where they require full depth replacement.

In the CIP process, we grind ≈ 4 " into the existing asphalt surface. The product is then sent through a crusher, asphalt emulsion is added along with stone at a predetermined rate. Once the product is mixed, it is placed back onto the roadway through a paver and compacted to the desired density (95%).

The entire process takes place using a "train" which includes an emulsion tanker, milling machine, crusher/screener and an asphalt paver followed by a pneumatic and vibratory rollers. The process basically turns the top 4" of asphalt into a recycled binder course. We then pave 2" of top course over that using the Hauling & Placing of Asphalt Contract. The CIP process extends pavement life by approximately 10 years.

We have used Gorman Brothers Inc. as our contractor for this work for over 28 years. They are on the approved State Contract and have always provided excellent work for the County.

I have reviewed and evaluated the various contractors providing said service under New York State contract Group 31555-Award 23334 and recommend Gorman Brothers, Inc. as offering the best value for Albany County with a cost total for the projects not to exceed \$424,429.10.

If there are any questions or further information is needed regarding this request, please feel free to contact my office.

Sincerely,

A handwritten signature in black ink, appearing to read "L. M. Ramundo", with a stylized flourish at the end.

Lisa M. Ramundo
Commissioner

cc: Hon. Dennis Feeney, Majority Leader
Hon. Frank Mauriello, Minority Leader
Rebekah Kennedy, Majority Counsel
Arnis Zilgme, Minority Counsel



County of Albany

Harold L. Joyce
Albany County Office
Building
112 State Street - Albany,
NY 12207

Legislation Text

File #: TMP-5480, **Version:** 1

REQUEST FOR LEGISLATIVE ACTION

Description (e.g., Contract Authorization for Information Services):

Contract Authorization with Gorman Bros., Inc. for Cold-In-Place Recycling Projects.

Date: May 6, 2024
Submitted By: Rosa Maria Tirino
Department: Public Works
Title: Director of Operations
Phone: 518-655-7919
Department Rep.
Attending Meeting: Lisa M. Ramundo, PE, Commissioner

Purpose of Request:

- Adopting of Local Law
- Amendment of Prior Legislation
- Approval/Adoption of Plan/Procedure
- Bond Approval
- Budget Amendment
- Contract Authorization
- Countywide Services
- Environmental Impact/SEQR
- Home Rule Request
- Property Conveyance
- Other: (state if not listed) [Click or tap here to enter text.](#)

CONCERNING BUDGET AMENDMENTS

Increase/decrease category (choose all that apply):

- Contractual
- Equipment
- Fringe
- Personnel
- Personnel Non-Individual

Revenue

Increase Account/Line No.: Click or tap here to enter text.

Source of Funds: Click or tap here to enter text.

Title Change: Click or tap here to enter text.

CONCERNING CONTRACT AUTHORIZATIONS

Type of Contract:

Change Order/Contract Amendment

Purchase (Equipment/Supplies)

Lease (Equipment/Supplies)

Requirements

Professional Services

Education/Training

Grant

Choose an item.

Submission Date Deadline Click or tap to enter a date.

Settlement of a Claim

Release of Liability

Other: (state if not listed) Click or tap here to enter text.

Contract Terms/Conditions:

Party (Name/address):

Gorman Bros., Inc.

200 Church St.

Albany, NY 12202

Additional Parties (Names/addresses):

Click or tap here to enter text.

Amount/Raise Schedule/Fee: \$424,429.10

Scope of Services: Cold-In-Place Recycling Projects

Bond Res. No.: Click or tap here to enter text.

Date of Adoption: Click or tap here to enter text.

CONCERNING ALL REQUESTS

Mandated Program/Service: Yes No

If Mandated Cite Authority: Click or tap here to enter text.

Is there a Fiscal Impact: Yes No

Anticipated in Current Budget: Yes No

County Budget Accounts:

Revenue Account and Line: Click or tap here to enter text.
Revenue Amount: Click or tap here to enter text.

Appropriation Account and Line: HHTH
Appropriation Amount: \$424,429.10

Source of Funding - (Percentages)

Federal: Click or tap here to enter text.
State: Click or tap here to enter text.
County: 100%
Local: Click or tap here to enter text.

Original Awarding Agency / Funder:
Click or tap here to enter text.
New York State Pass-Through Agency (if applicable):
Click or tap here to enter text.

Term

Term: (Start and end date) 06/01/2024-10/31/2024
Length of Contract: 5 Months

Impact on Pending Litigation Yes No
If yes, explain: Click or tap here to enter text.

Previous requests for Identical or Similar Action:

Resolution/Law Number: Click or tap here to enter text.
Date of Adoption: Click or tap here to enter text.

Justification: (state briefly why legislative action is requested)

The Department of Public Works is requesting Legislature's approval of an agreement with Gorman Brothers, Inc. for Cold in Place Recycling Projects on CR410 (Thayers Corners Rd.) in the Town of Westerlo for a length of 2.22 miles and CR414 (Horseshoe Bend Rd.) in the Town of Westerlo for a length of 1.20 miles. As part of Albany County DPW's Highway Maintenance Plan, we are planning on using the Cold-In Place Recycling (CIP) process for approximately 3.42 miles of roadway. CIP is one of the processes we use for maintaining the 290 center lane miles of County highways. The roads chosen for this treatment have deteriorated beyond the point that milling and repaving would be sufficient, but have not deteriorated to the point where they require full depth replacement. In the CIP process, we grind approximately 4" into the existing asphalt surface. The product is then sent through a crusher, asphalt emulsion is added along with stone at a predetermined rate. Once the product is mixed, it is placed back onto the roadway through a paver and compacted to the desired density (95%). The entire process takes place using a "train" which includes an emulsion tanker, milling machine, crusher/screener and an asphalt paver followed by a pneumatic and vibratory rollers. The process basically turns the top 4" of asphalt into a recycled binder course. We then pave 2" of top course over that using the Hauling & Placing of Asphalt Contract. The CIP process extends pavement life by approximately 10 years. We have used Gorman Brothers Inc. as our contractor for this work for over 28 years. They are on the approved State Contract and have always provided excellent work for the County. We have reviewed and evaluated the various contractors providing said service under New York State contract Group 31555- Award 23334 and recommend Gorman Brothers, Inc. as offering the best value for Albany County

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with a cost total for the projects not to exceed \$424,429.10.

**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

AGENCY/USER COMPLETES THIS SECTION FOR QUICK QUOTE

Date when the Quick Quote form is sent to the contractor: May / 20 / 2024

NOTE:

1. The user and the contractor understand that the Project's Total Cost to be shown below will include all the needed Price Adjustments for the month indicated (the month when the Quick Quote form is sent to the contractor). If the project (or part of the project) is executed in a different month than the one used to calculate this Quick Quote, then the Project's Total Cost will change accordingly to reflect the Price Adjustments for the Month in which the project (or part of the project) was actually performed.

2. The contractor understands that at no time may a quick quote unit price (without the Price Adjustment) exceed the contract price. Materials cost, hauling expenses, etc., can be lowered by the contractor any time during the quick quote process.

Agency/User: Albany County DPW

Project Name: County Route 414 Quick Quote # 414

Project Location: Westerlo

Square Yards to Be Recycled = 16,900.000 SqY
 Depth of Recycling : 4 inches

Square Yards of Shoulder to be Milled = 0.000 SqY
 Depth of Milling : _____
 Shoulder Milling Disposal by: _____

The Authorized User may include gallon amounts for Emulsion and PG Binder, but the Contractors will choose only one of them (either Emulsion or PG Binder) for their quick quote response.

* Mix Design will be Provided by the Contractor at the time of the project (unless specifically provided by the Agency) but for the Quick Quote calculation purposes, the following table of conversion factors may be taken by the Authorized User as a guide to convert the project's SqY into the different items:

- Emulsions - 1.8 gal/SY for 4" recycling and 1.35 gal / SY for 3" recycling
- PG Binder - 1.35 gal/SY for 4" recycling; 1.00 gal/SY for 3" recycling
- Aggregate - 90lbs/SY for 4" recycling and 68lbs/SY for 3" recycling
- Portland Cement - 4lbs per SY for 4" recycling and 3lbs per SY for 3" recycling
- Fog Seal - 0.1 gal/SY

Total Gallons of Emulsion = 22,130.000 Gallons
 or
 Total Gallons of PG Binder = 0.000 Gallons
 Total Gallons Fog Seal = 1,690.000 Gallons
 Total Tons Aggregate = 0.000 Tons
 Portland Cement Required No 0.000 Tons of Cement

Additional Items (enter a check mark if item is required):

- Work Zone Traffic Control by Contractor Number of Pilot Vehicles 1
- Rumble Strips Required Linear Feet of Rumble Strips _____
- Additional Flaggers Required Number of Additional Flaggers 1
- OCP Insurance Required

GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)

LOT 3 - COLD RECYCLING (Version 04/01/2024)

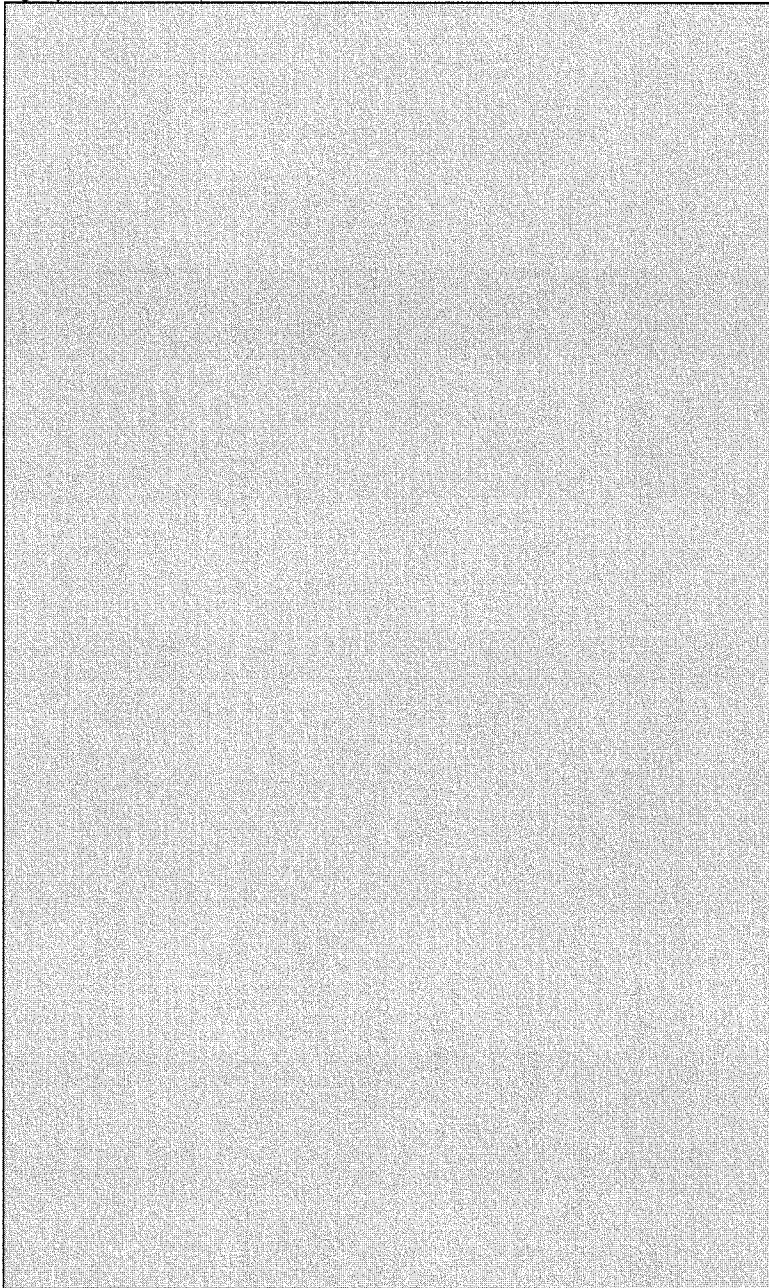
Anticipated Project Start Date: 7/1/24

Agency/User Contact: Lisa Ramundo, Commissioner

Agency/User Telephone: (518) 765-2055

Quick Quote must be returned by: 5/24/24

Agency/User Comments: (Note: Press Alt+Enter to create a new line)



**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

CONTRACTOR COMPLETES THIS SECTION FOR QUICK QUOTE

Project Name: County Route 414 Quick Quote # 414

Contractor & PC #: PC70343 - Gorman Bros., Inc.

Plant Location: 6 Freemana Bridge Rd, Scotia, NY 12302 Plant #: L0104

Estimated Haul Distance: Miles Telephone: 518-782-9988

Estimated Number of Days 1 or Hours to Complete the Project

Type of Recycling: In Place
 Recycling Price = \$3.820 per Square Yard
 Total Square Yards = 16,900.000 SqY

A. Recycling Total Cost = \$64,558.000

The **Authorized User** may include gallon amounts for Emulsion and PG Binder, but the **Contractors** will choose only one of them (either Emulsion or PG Binder) for their quick quote response.

* Mix Design will be Provided by the Contractor at the time of the project (unless specifically provided by the Agency) but for the Quick Quote calculation purposes, the following table of conversion factors may be taken by the Authorized User as a guide to convert the project's SqY into the different items:

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 Aggregate - 90lbs/SY for 4" recycling and 68lbs/SY for 3" recycling
 Portland Cement - 4lbs per SY for 4" recycling and 3lbs per SY for 3" recycling
 Fog Seal - 0.1 gal/SY

B. Emulsion Price = \$3.750 per Gallon

*Material Price Adjustment Calculation for the Month of: **May / 2024***

C. Monthly Material Price Adjustment - Emulsion per Gallon = -\$0.022

D. Emulsion Price with Price Adjustment (B + C) = \$3.728 per Gallon

E. Total Gallons of Emulsion = 22,130.000 Gallons

F. Emulsion Total Cost (D x E) = \$82,500.640

G. Liquid Bituminous Material (Fog Seal) Price = \$3.300 per Gallon

*Material Price Adjustment Calculation for the Month of: **May / 2024***

H. Monthly Material (Fog Seal) Price Adjustment per Gallon = -\$0.017

I. Liquid Bitum. Mat. (Fog Seal) Price w/ Price Adjustment (L + M) = \$3.283 /Gal

J. Total Gallons of Fog Seal = 1,690.000 Gallons

K. Liquid Bituminous Material (Fog Seal) Total Cost (I x J) = \$5,548.270

L. Heat/Haul/Apply Price = \$0.080 per Gallon

M. Total Gallons of Emulsion = 22,130.000 Gallons

N. Heat/Haul/Apply Total Cost (L x M) = \$1,770.400

O. Aggregate Price = \$0.000 per Ton

P. Total Tons of Aggregate = 0.000 Tons

Q. Aggregate Total Cost (O X P) = \$0.000

R. Portland Cement Price = \$0.000 per Ton

S. Total Tons of Cement = 0.000 Tons

T. Portland Cement Total Cost (R x S) = \$0.000

**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

CONTRACTOR COMPLETES THIS SECTION FOR QUICK QUOTE

Project Name: County Route 414 Quick Quote # 414

Work Zone Traffic Control Price = \$0.500 per SY
 Total Square Yards = 16,900.000 SqY
U. Work Zone Traffic Control Total Cost = \$8,450.000

Surcharge - Small/Recycled in Short Segments Projects = \$0.000 per SY
 Total Square Yards = SqY
V. Surcharge - Small/Recycled in Short Segments Proj. Total Cost = \$0.000

Price Additional Flagger(s) = \$1,350.000 per Day
 Number of Additional Flagger(s) = 1 Number of Days = 1
W. Additional Flagger(s) Total Cost = \$1,350.000

Price Additional for Rumble Strips = \$0.000 per Linear Foot
 Number of Linear Feet = LF
X. Additional for Rumble Strips Total Cost = \$0.000

Price Mobilization to Project Location = \$0.000 per Square Yard
 Total Square Yards = SqY
Y. Mobilization to Project Location Total Cost = \$0.000

Shoulder Milling (Contractor Disposal) = \$0.000 per SY
 Total Square Yards = SqY
Z. Shoulder Milling (Contractor Disposal) Total Cost = \$0.000

Shoulder Milling (State/User Disposal) = \$0.000 per SY
 Total Square Yards = SqY
AI Shoulder Milling (State Disposal) Total Cost = \$0.000

BI OCP Insurance = \$0.000

Project's Total Cost including all the Price Adjustments for: May / 2024

Project's Total Cost including Price Adjustment (A+F+K+N+Q+T+U+V+W+X+Y+Z+A1+B1) =	\$164,177.310
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Can Contractor Supply? Yes

Can Contractor meet Schedule? Yes

Print Name Dane Mellon Date 5/23/24

Contractor Signature Dane Mellon

NOTE:
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Route: County Route 414
County: Albany County
Customer: Albany County

Start: CR 405
End: CR 401
Length: 6,300

Prepared By:
The Gorman Group
Port of Albany, Albany, NY

Core Locations

Sample#:	Mile Point:	Pavement Depth:	Sample Location:
1	1,000' from CR 401	6.5"	Lane Center
2	2,000' from CR 401	6"	Road Center
3	3,000' from CR 401	6"	Edge
4	4,000' from CR 401	6"	Lane Center
5	5,000' from CR 401	4"	Edge
6	6,000' from CR 401	6"	Road Center
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Route: County Route 414
 County: Albany County
 Customer: Albany County

Start: CR 405
 End: CR 401
 Length: 6,300

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

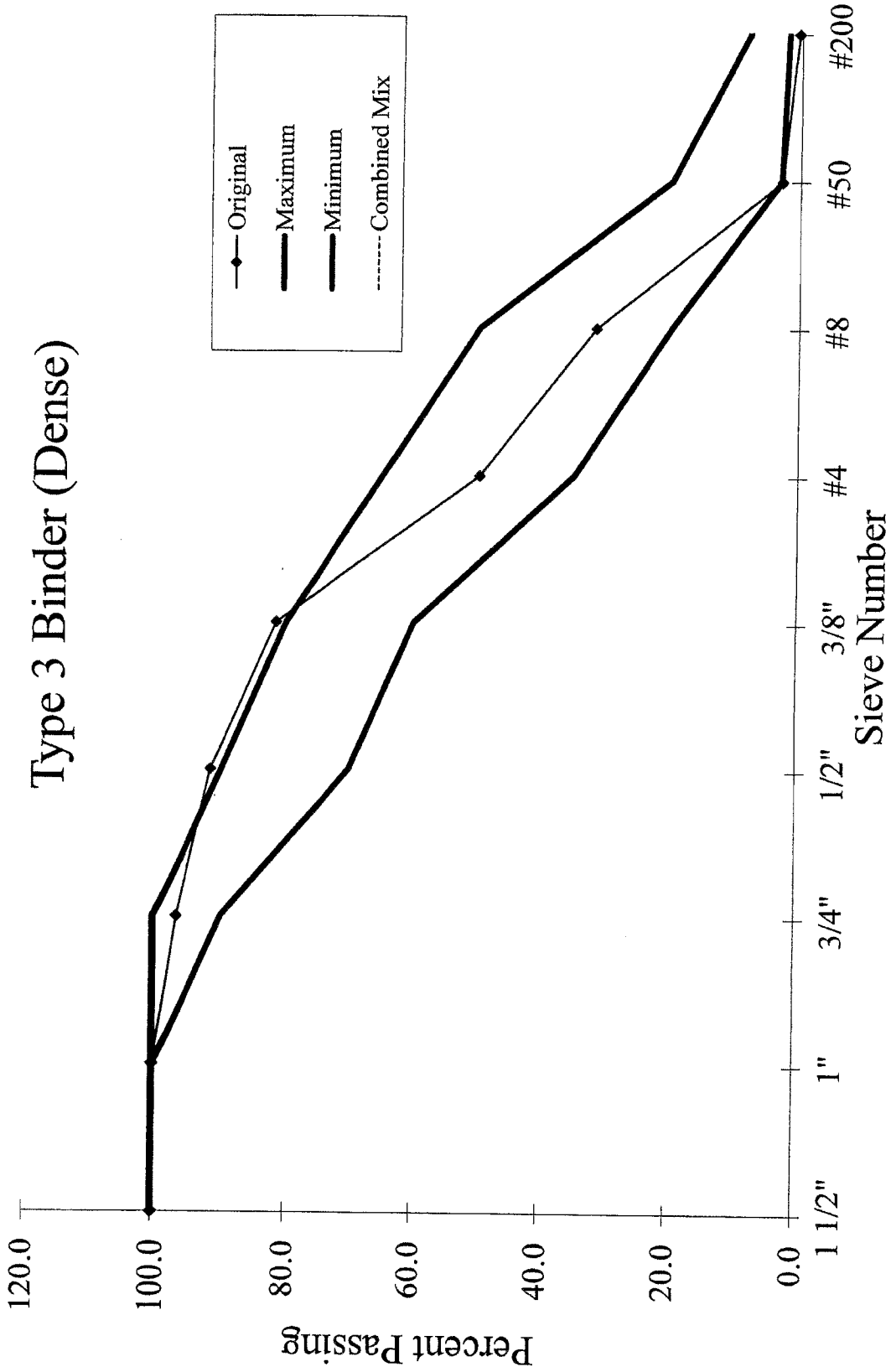
CORE #:	1	2	3	4	5	6	7	8	9	DESIGN #	
Sample Location #:	Lane Center	Edge	Edge	Road Center						3879	
Sieve Size	PERCENT PASSING										
1 1/2"	100.0	100.0	100.0	100.0						100.0	
1"	100.0	100.0	100.0	100.0						100.0	
3/4"	95.3	96.7	96.9	98.1						96.8	
1/2"	90.3	87.3	92.7	96.3						91.7	
3/8"	82.3	76.6	86.1	81.4						81.6	
#4	50.9	47.3	49.9	51.4						49.9	
#8	31.5	32.3	32.1	30.9						31.7	
#50	2.4	2.7	3.1	3.2						2.9	
#200	0.4	0.4	0.4	0.5						0.4	
% AC	6.54	5.51	6.08	5.72						5.96	
Recycle Depth (in.):	4			Add Stone:	N/A			Cement:	N/A		



Main: 518-462-5401
 Fax: 518-462-1296

Design Chart

Type 3 Binder (Dense)



Route: County Route 414
 County: Albany County
 Customer: Albany County

Start: CR 405
 End: CR 401
 Length: 6,300

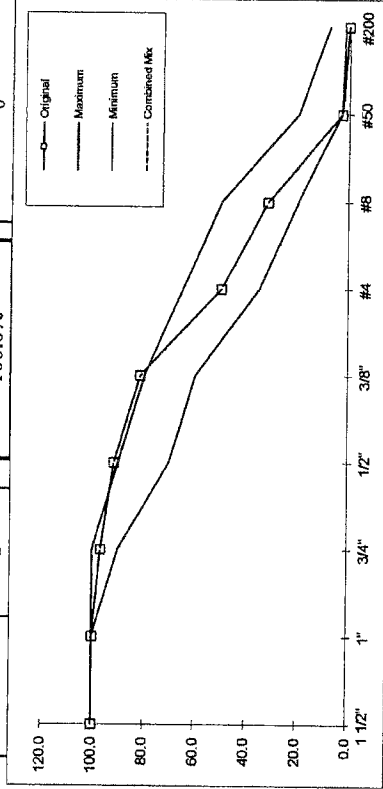
Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

Location :	Albany County
Mix Design # :	3879
SIEVE NUMBER	Original
1 1/2"	100.0
1"	100.0
3/4"	96.8
1/2"	91.7
3/8"	81.6
#4	49.9
#8	31.7
#50	2.9
#200	0.4

Road :	CR 414
Emulsion %:	3.0%
Maximum	Minimum
100	100
100	100
100	90
90	70
80	60
65	35
50	20
20	3
8	2

Emulsion(Gal/Yd³)	1.59
ADDSTONE TYPE	ADDSTONE
N/A	0
	0
	0
Percent Added	
0.0%	0
Added Stone(lb/yd³)	
0	0
Percent original	
100.0%	0

SIEVE SIZE	Combined Mix
1 1/2"	100.0
1"	100.0
3/4"	96.8
1/2"	91.7
3/8"	81.6
#4	49.9
#8	31.7
#50	2.9
#200	0.4



Emulsion % is a suggested starting point. May vary in the field.

1/26/2024

Main: 518-462-5401
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Route: County Route 414
 County: Albany County
 Customer: Albany County

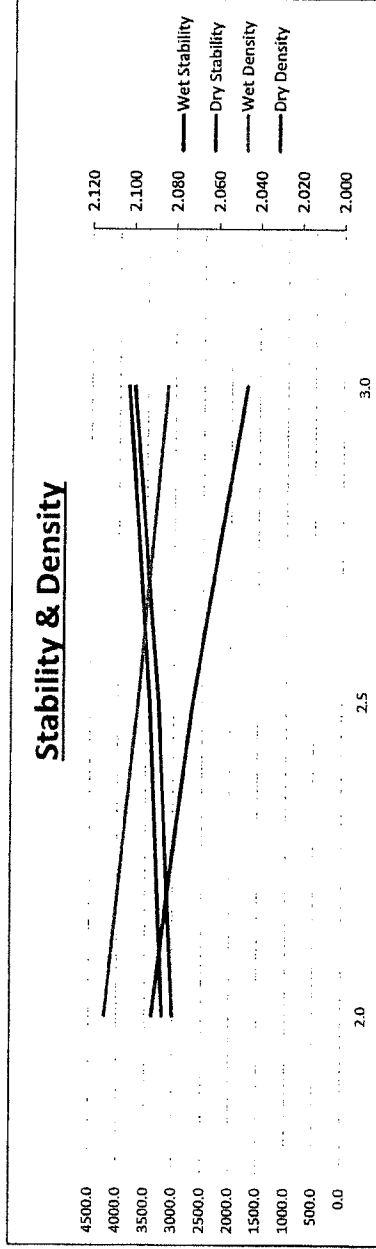
Start: CR 405
 End: CR 401
 Length: 6,300

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

Mix Design #:	3879
RAP Moisture %:	2.9%
TSR:	97.46%

Calculated Air Voids %:	5.97%
Emulsion Grade:	HFMS-2
Emulsion Content %:	3.0%
Added Water %:	3%

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.0	3003.1	19.8	2.112	131.8
	2.5	3274.2	19.4	2.097	130.9
	3.0	3732.7	21.3	2.084	130.0
Dry	2.0	3184.9	20.7	2.090	130.4
	2.5	3425.4	18.8	2.071	129.2
	3.0	3829.8	19.4	2.046	127.7



Main: 518-462-5401
 Fax: 518-462-1296

Route: County Route 414
 County: Albany County
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Start: CR 405
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 Length: 6,300

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.0	3010.3	18.2	2.112	131.8
		2997.5	19.9	2.115	132.0
		3001.4	21.3	2.110	131.7
Dry	2.0	3224.7	19.1	2.095	130.7
		3118.6	22.1	2.091	130.5
		3211.4	20.8	2.084	130.0

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.5	3277.6	21.3	2.101	131.1
		3311.7	18.8	2.099	131.0
		3233.4	18.1	2.091	130.5
Dry	2.5	3584.9	18.3	2.078	129.7
		3344.6	19.5	2.071	129.2
		3346.7	18.6	2.064	128.8

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	3.0	3699.3	22.1	2.088	130.3
		3787.2	21.4	2.081	129.9
		3711.5	20.5	2.082	129.9
Dry	3.0	3811.4	19.5	2.039	127.2
		3799.5	18.2	2.051	128.0
		3878.6	20.5	2.048	127.8

Wet Average		
Em. %	2	2.5
Stability	3003.1	3274.2
Flow	19.8	19.4
Sp. Gr.	2.112	2.097
Density	131.8	130.9
Strength	191.19	208.45
		237.64

Dry Average		
Em. %	2	2.5
Stability	3184.9	3425.4
Flow	20.7	18.8
Sp. Gr.	2.090	2.071
Density	130.4	129.2
Strength	202.76	218.07
		243.82

Tensile Strength Ratio		
Em. %	2	2.5
Wet	191.19	208.45
Dry	202.76	218.07
TSR	94.29	95.59
		97.46

Route: County Route 414
County: Albany County
Customer: Albany County

Start: CR 405
End: CR 401
Length: 6,300

Prepared By:
The Gorman Group
Port of Albany, Albany, NY

Recommendation

Based on testing results, 3% HFMS-2 Emulsion had the best combination of strength and TSR.
We recommend a starting point of 3%.

1/26/2024

Main: 518-462-5401
Fax: 518-462-1296

**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

AGENCY/USER COMPLETES THIS SECTION FOR QUICK QUOTE

Date when the Quick Quote form is sent to the contractor: May / 20 / 2024

NOTE:
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Agency/User: Albany County DPW

Project Name: County Route 410 Quick Quote # 410

Project Location: Westerlo

Square Yards to Be Recycled = 28,200,000 SqY
 Depth of Recycling : 4 inches

Square Yards of Shoulder to be Milled = 0.000 SqY
 Depth of Milling : _____
 Shoulder Milling Disposal by: _____

The **Authorized User** may include gallon amounts for Emulsion and PG Binder, but the **Contractors** will choose only one of them (either Emulsion or PG Binder) for their quick quote response.
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 Aggregate - 90lbs/SY for 4" recycling and 68lbs/SY for 3" recycling
 Portland Cement - 4lbs per SY for 4" recycling and 3lbs per SY for 3" recycling
 Fog Seal - 0.1 gal/SY

Total Gallons of Emulsion = 37,000,000 Gallons
 or
 Total Gallons of PG Binder = 0.000 Gallons
 Total Gallons Fog Seal = 2,800,000 Gallons
 Total Tons Aggregate = 0.000 Tons
 Portland Cement Required No 0.000 Tons of Cement

Additional Items (enter a check mark if item is required):

- Work Zone Traffic Control by Contractor Number of Pilot Vehicles 1
- Rumble Strips Required Linear Feet of Rumble Strips _____
- Additional Flaggers Required Number of Additional Flaggers 1
- OCP Insurance Required

**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

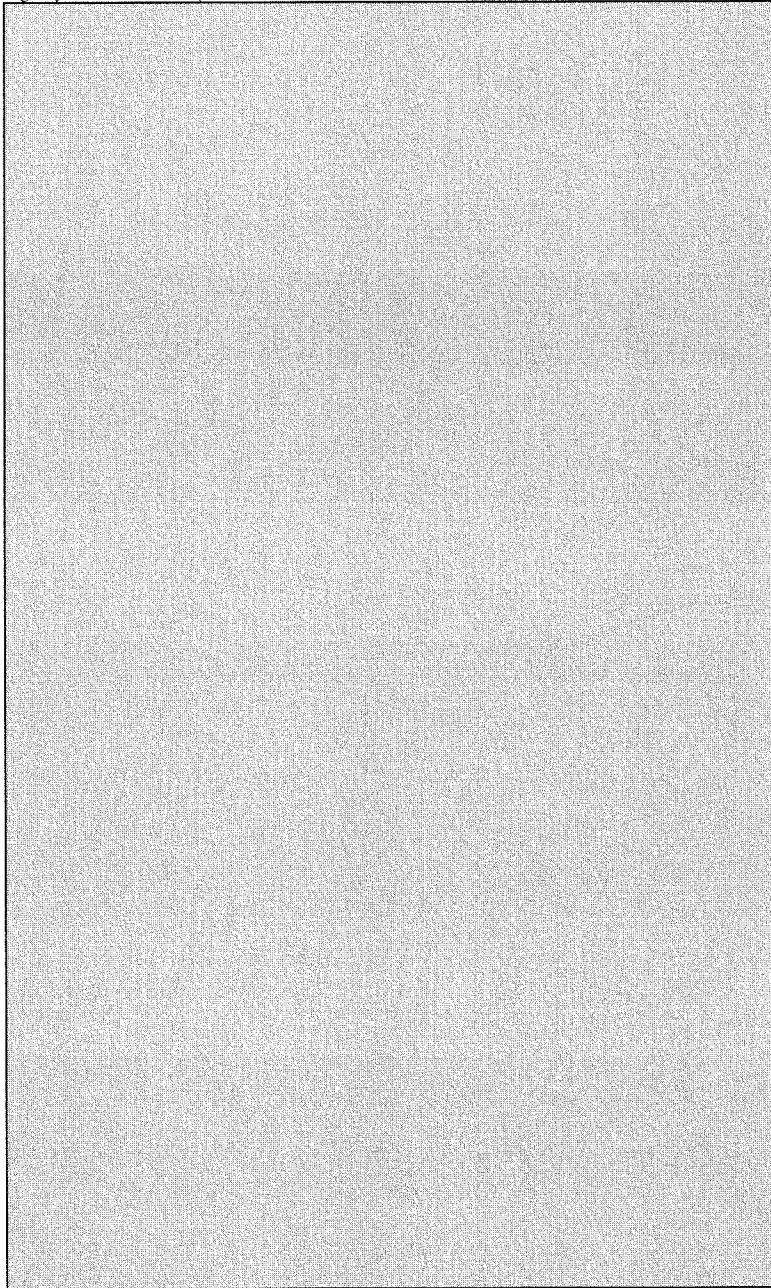
Anticipated Project Start Date: 7/1/24

Agency/User Contact: Lisa Ramundo, Commissioner

Agency/User Telephone: (518) 765-2055

Quick Quote must be returned by: 5/24/24

Agency/User Comments: (Note: Press Alt+Enter to create a new line)



**GROUP 31555 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

CONTRACTOR COMPLETES THIS SECTION FOR QUICK QUOTE

Project Name: County Route 410 Quick Quote # 410

Contractor & PC #: PC70343 - Gorman Bros., Inc.

Plant Location: 6 Freemans Bridge Rd, Scotia, NY 12302 Plant #: L0104

Estimated Haul Distance: Miles Telephone: 518-782-9988

Estimated Number of Days 2 or Hours to Complete the Project

Type of Recycling: In Place
 Recycling Price = \$3.820 per Square Yard
 Total Square Yards = 28,200.000 SqY
A. Recycling Total Cost = \$107,724.000

The Authorized User may include gallon amounts for Emulsion and PG Binder, but the Contractors will choose only one of them (either Emulsion or PG Binder) for their quick quote response.

* Mix Design will be Provided by the Contractor at the time of the project (unless specifically provided by the Agency) but for the Quick Quote calculation purposes, the following table of conversion factors may be taken by the Authorized User as a guide to convert the project's SqY into the different items:

Emulsions- 1.8 gal/SY for 4" recycling and 1.35 gal / SY for 3" recycling
 PG Binder - 1.35 gal/SY for 4" recycling; 1.00 gal/SY for 3" recycling
 Aggregate - 90lbs/SY for 4" recycling and 68lbs/SY for 3" recycling
 Portland Cement - 4lbs per SY for 4" recycling and 3lbs per SY for 3" recycling
 Fog Seal - 0.1 gal/SY

B. Emulsion Price = \$3.750 per Gallon

*Material Price Adjustment Calculation for the Month of: **May / 2024***

C. Monthly Material Price Adjustment - Emulsion per Gallon = -\$0.022

D. Emulsion Price with Price Adjustment (B + C) = \$3.728 per Gallon

E. Total Gallons of Emulsion = 37,000.000 Gallons

F. Emulsion Total Cost (D x E) = \$137,936.000

G. Liquid Bituminous Material (Fog Seal) Price = \$3.300 per Gallon

*Material Price Adjustment Calculation for the Month of: **May / 2024***

H. Monthly Material (Fog Seal) Price Adjustment per Gallon = -\$0.017

I. Liquid Bitum. Mat. (Fog Seal) Price w/ Price Adjustment (L + M) = \$3.283 /Gal

J. Total Gallons of Fog Seal = 2,800.000 Gallons

K. Liquid Bituminous Material (Fog Seal) Total Cost (I x J) = \$9,192.400

L. Heat/Haul/Apply Price = \$0.080 per Gallon

M. Total Gallons of Emulsion = 37,000.000 Gallons

N. Heat/Haul/Apply Total Cost (L x M) = \$2,960.000

O. Aggregate Price = \$0.000 per Ton

P. Total Tons of Aggregate = 0.000 Tons

Q. Aggregate Total Cost (O x P) = \$0.000

R. Portland Cement Price = \$0.000 per Ton

S. Total Tons of Cement = 0.000 Tons

T. Portland Cement Total Cost (R x S) = \$0.000

**GROUP 31355 - AWARD 23334 - COMPREHENSIVE LIQUID BITUMINOUS MATERIALS
(Statewide)**

LOT 3 - COLD RECYCLING (Version 04/01/2024)

CONTRACTOR COMPLETES THIS SECTION FOR QUICK QUOTE

Project Name: County Route 410 Quick Quote # 410

Work Zone Traffic Control Price = \$0.500 per SY
 Total Square Yards = 28,200.000 SqY
U. Work Zone Traffic Control Total Cost = \$14,100.000

Surcharge - Small/Recycled in Short Segments Projects = \$0.000 per SY
 Total Square Yards = SqY
V. Surcharge - Small/Recycled in Short Segments Proj. Total Cost = \$0.000

Price Additional Flagger(s) = \$1,350.000 per Day
 Number of Additional Flagger(s) = 1 Number of Days = 2
W. Additional Flagger(s) Total Cost = \$2,700.000

Price Additional for Rumble Strips = \$0.000 per Linear Foot
 Number of Linear Feet = LF
X. Additional for Rumble Strips Total Cost = \$0.000

Price Mobilization to Project Location = \$0.000 per Square Yard
 Total Square Yards = SqY
Y. Mobilization to Project Location Total Cost = \$0.000

Shoulder Milling (Contractor Disposal) = \$0.000 per SY
 Total Square Yards = SqY
Z. Shoulder Milling (Contractor Disposal) Total Cost = \$0.000

Shoulder Milling (State/User Disposal) = \$0.000 per SY
 Total Square Yards = SqY
AI Shoulder Milling (State Disposal) Total Cost = \$0.000

BI OCP Insurance = \$0.000

Project's Total Cost including all the Price Adjustments for: May / 2024

Project's Total Cost including Price Adjustment (A+F+K+N+Q+T+U+V+W+X+Y+Z+A1+B1) =	\$274,612.400
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Can Contractor Supply? Yes

Can Contractor meet Schedule? Yes

Print Name Dane Mellon Date 5/23/24

Contractor Signature Dane Mellon

NOTE:
 1. The user and the contractor understand that the Project's Total Cost shown above includes all the needed Price Adjustments for the month indicated (the month when the Quick Quote form was sent to the contractor). If the project (or part of the project) is executed in a different month than the one used to calculate this Quick Quote, then the Project's Total Cost will change accordingly to reflect the Price Adjustments for the Month in which the project (or part of the project) was actually performed.
 2. The contractor understands that **at no time may a quick quote unit price (without the Price Adjustment) exceed the contract price.** Materials cost, hauling expenses, etc., can be lowered by the contractor any time during the quick quote process.

Core Locations

Sample#:	Mile Point:	Pavement Depth:	Sample Location:
1	650' from CR 401	5.5"	Lane Center
2	2,500' from CR 401	5.5"	Edge
3	4,000' from CR 401	5"	Road Center
4	5,350' from CR	8.5"	Wheel Path
5	6,500' from CR 401	6"	Edge
6	7,700' from CR 401	5.5"	Road Center
7	9,250' from CR 401	6.5"	Lane Center
8	11,000' from CR 401	6"	Wheel Path
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Route: County Route 410
 County: Albany County
 Customer: Albany County

Start: CR 401
 End: CR 402
 Length: 11,600'

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

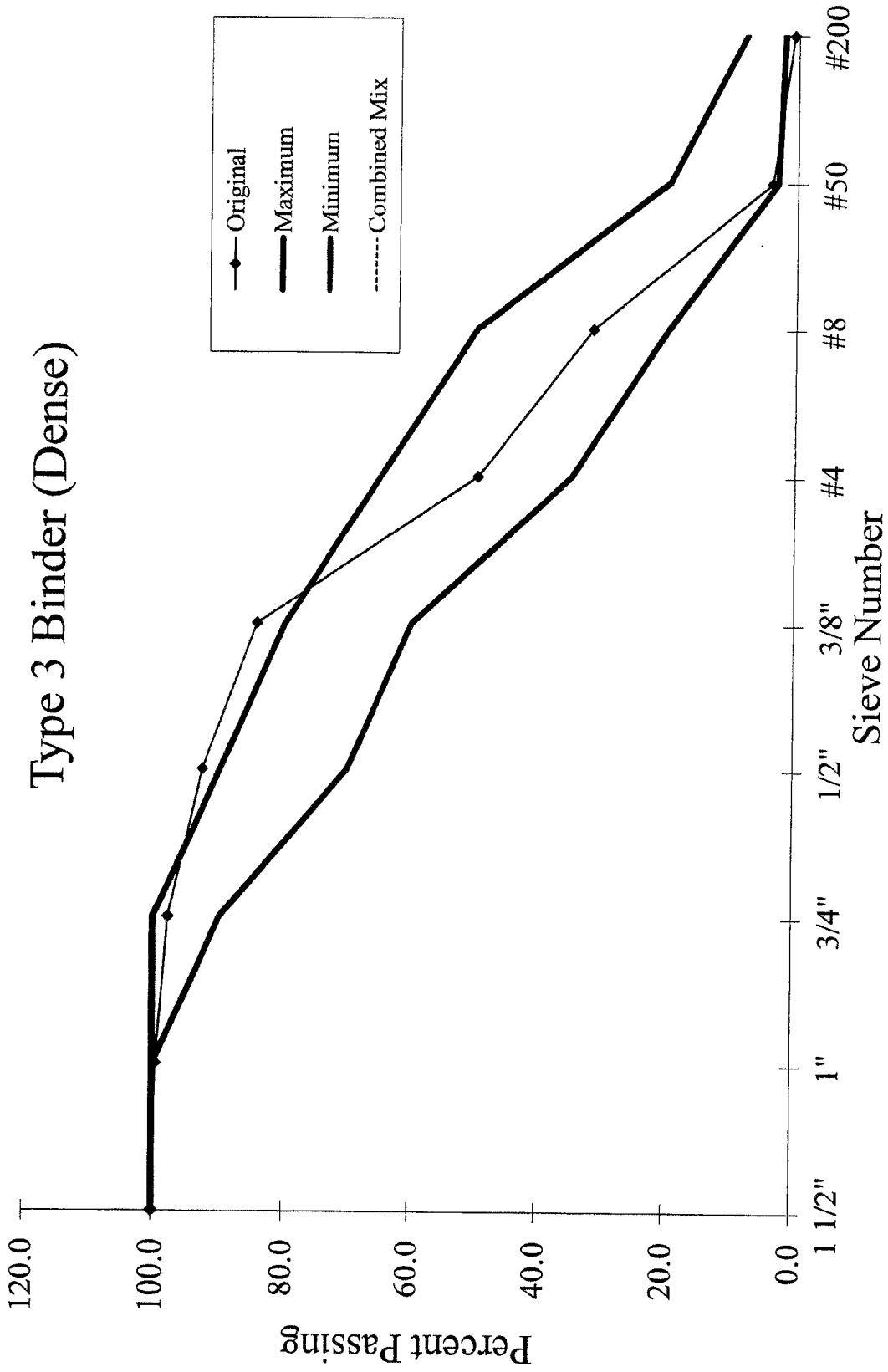
CORE #:	1	2	3	4	5	6	7	8	9	DESIGN #
Sample Location #:	Edge	Wheel Path	Road Center	Wheel Path						3878
Sieve Size	PERCENT PASSING									
1 1/2"	100.0	100.0	100.0	100.0						100.0
1"	100.0	99.1	99.1	100.0						99.6
3/4"	98.2	96.3	96.8	100.0						97.8
1/2"	92.3	89.7	93.4	95.6						92.8
3/8"	84.0	78.3	88.1	87.4						84.5
#4	48.5	46.3	50.8	53.5						49.8
#8	30.9	30.7	32.4	32.9						31.7
#50	3.6	2.9	4.5	4.6						3.9
#200	0.5	0.5	0.7	0.8						0.6
% AC	5.88	5.94	6.72	5.95						6.12
Recycle Depth (in.):	4			Add Stone:			N/A			Cement: N/A



Main: 518-462-5401
 Fax: 518-462-1296

Design Chart

Type 3 Binder (Dense)



Route: CR 410
 County: Albany County
 Customer: Albany County

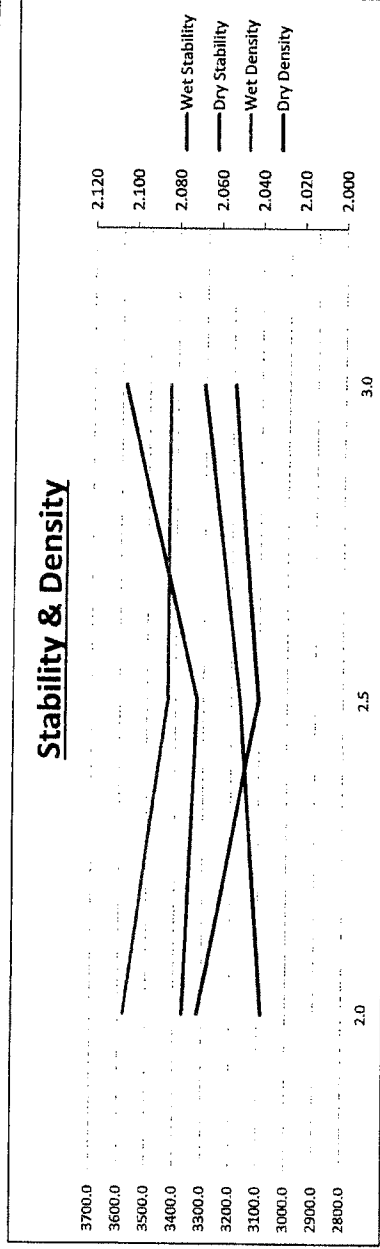
Start: CR 401
 End: CR 402
 Length: 11,600'

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

Mix Design #:	3878
RAP Moisture %:	2.7%
TSR:	92.40%

Calculated Air Voids %:	6.20%
Emulsion Grade:	HFMS-2
Emulsion Content %:	3.0%
Added Water %:	3%

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.0	3087.4	18.4	2.104	131.3
	2.5	3166.5	19.5	2.084	130.0
	3.0	3305.5	18.1	2.084	130.0
Dry	2.0	3370.0	18.7	2.069	129.1
	2.5	3321.8	19.5	2.040	127.1
	3.0	3587.4	19.2	2.053	128.1



Route: CR 410
 County: Albany County
 Customer: Albany County

Start: CR 401
 End: CR 402
 Length: 11,600'

Prepared By:
 The Gorman Group
 Port of Albany, Albany, NY

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.0	3061.3	17.2	2.103	131.2
		3111.4	18.9	2.109	131.6
		3089.4	19.1	2.100	131.1
Dry	2.0	3411.1	18.1	2.066	128.9
		3322.4	17.9	2.072	129.3
		3376.5	20.1	2.068	129.0

Wet Average				
Em. %	2	2.5	3	
Stability	3087.4	3166.5	3305.5	
Flow	18.4	19.5	18.1	
Sp. Gr.	2.104	2.084	2.084	
Density	131.3	130.0	130.0	
Strength	196.55	201.59	210.44	

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	2.5	3117.2	21.2	2.081	129.9
		3202.6	19.8	2.088	130.3
		3179.6	17.6	2.082	129.9
Dry	2.5	3481.4	19.5	2.044	127.6
		3258.2	21.2	2.031	126.8
		3225.8	17.8	2.046	127.0

Dry Average				
Em. %	2	2.5	3	
Stability	3370.0	3321.8	3587.4	
Flow	18.7	19.5	19.2	
Sp. Gr.	2.069	2.040	2.053	
Density	129.1	127.1	128.1	
Strength	214.55	211.48	228.39	

Strength Type	Emulsion %	Stability	Flow	Sp. Gr.	Density
Wet	3.0	3298.7	17.4	2.079	129.7
		3321.5	19.1	2.085	130.1
		3296.3	17.8	2.087	130.2
Dry	3.0	3581.1	20.1	2.055	128.2
		3514.6	19.1	2.052	128.0
		3666.5	18.3	2.051	128.0

Tensile Strength Ratio				
Em. %	2	2.5	3	
Wet	196.55	201.59	210.44	
Dry	214.55	211.48	228.39	
TSR	91.61	95.32	92.14	

Route: CR 410
County: Albany County
Customer: Albany County

Start: CR 401
End: CR 402
Length: 11,600'

Prepared By:
The Gorman Group
Port of Albany, Albany, NY

<p style="text-align: center;">Recommendation</p> <p>Based on testing results, 3% HFMS-2 Emulsion had the best combination of strength and TSR. We recommend a starting point of 3%.</p>
