Shannon Sinn
QC Manager

DELTA

A COLAS COMPANY

QC Overview & How Plant Operations Can Affect the Quality of the Mix

DELTA

A COLAS COMPANY

H & B 2 ½ Ton Batch Plant

Cedar Rapids 400 TPH Drum Mix

Aggregates

Crushed Stone

Limestone

Dolomite

Trap Rock

Crushed Gravel

Natural Sand

River Sand

Crowley Ridge Sand


DELTA
745C
CAT

SEMO Stone

Asphalt Aggregate

1” Fraction
¾” Fraction
½” Fraction
¼” Fraction


McLanahan

MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

MoDOT

2024

Fourth Edition

April 2025

Missouri Highways and Transportation Commission

MODoT Quarry Ledge Information Sheet

QUARRY LEDGE INFORMATION SUMMARY - Source

Feb 4, 2021

Southeast Missouri Stone (SEMO)

PH#: (573)204-1243

0.2 MI E/O I-55 Exit 63702 Cape Girardeau County

Longitude: -89:33:48.96 **Latitude:** 37:15:56.15

PS#: 3042800110

Ledge	Formation/ Member	Description/Components								
	Lab ID#	Date	Micro Deval	LA	SPG	Abs	Unit Weight	MoDOT T14	T104	T161
15-5A	**Plattin**									
	Material represents Ledges 15-15A Plattin Formation									
	Sample complies with Specification 1005 1" max coarse aggregate for PCCP or PCCM.									
100510..CPCMLD	20SED5B053	20200720	8.67	23	2.666	1	103	3	2	
6A-26A	**Plattin**									
	Material represents Ledges 6A-26A Plattin Formation.									
	Sample complies with Specification 1005, coarse aggregate for PCCP or PCCM.									
100510..CPCMLD	20SEBKF018	20201105	8.41	21	2.684	1	100	3.6	2	
6A-26A	**Plattin**									
	Material represents Ledges 6A - 26A Plattin Formation.									
	Sample complies with Specification 1005 1" max,. coarse aggregate for PCCP or PCCM.									
100510..CPCMLD	20SED5B018	20200226	8.87	17	2.705	1.1	100	3.5	4	

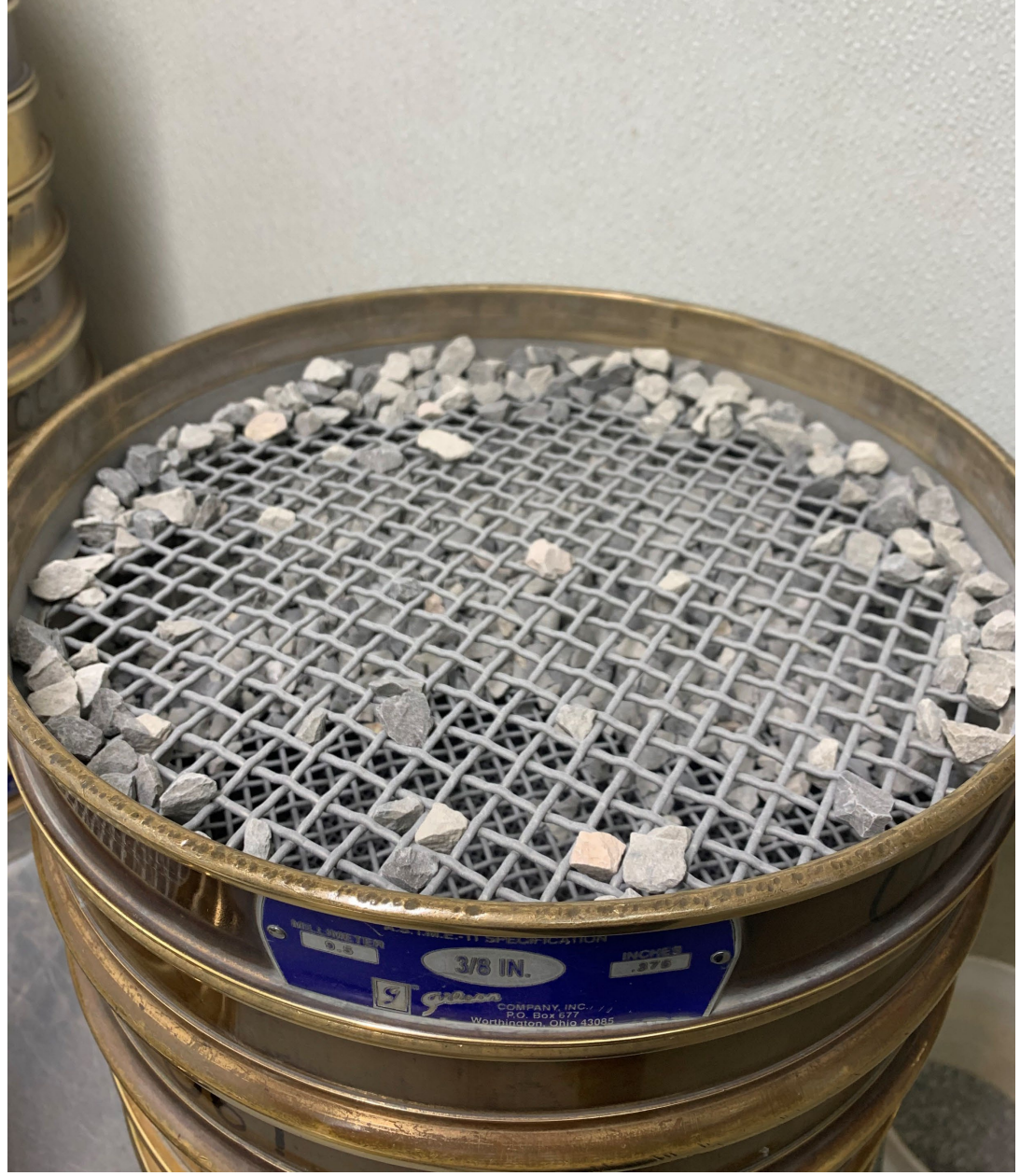
SEMO Stone's
Asphalt Aggregate Gradation

	SEMO Stone 1"	SEMO Stone 3/4"	SEMO Stone 1/2"	SEMO Stone 1/4"
Chert	0.2	0.2	0.1	
Gsb	2.705	2.693	2.674	2.684
1"	100	100	100	100
3/4"	88.7	100	100	100
1/2"	23.0	43.8	99.3	100
3/8"	5.2	11.3	78.3	100
#4	2.0	2.6	5.4	90.2
#8	1.6	2.0	3.1	56.7
#16	1.4	1.8	2.8	33.7
#30	1.3	1.6	2.6	21.4
#50	1.2	1.5	2.4	13.9
#100	1.0	1.3	2.1	10.3
#200	0.8	1.2	1.8	8.3


U.S.A. STANDARD TEST SIEVE
ASTM E11 SPECIFICATION
075
077

SEMO Stone's
Asphalt Aggregate Gradation

	SEMO Stone 1"	SEMO Stone 3/4"	SEMO Stone 1/2"	SEMO Stone 1/4"
Chert	0.2	0.2	0.1	
Gsb	2.705	2.693	2.674	2.684
1"	100	100	100	100
3/4"	88.7	100	100	100
1/2"	23.0	43.8	99.3	100
3/8"	5.2	11.3	78.3	100
#4	2.0	2.6	5.4	90.2
#8	1.6	2.0	3.1	56.7
#16	1.4	1.8	2.8	33.7
#30	1.3	1.6	2.6	21.4
#50	1.2	1.5	2.4	13.9
#100	1.0	1.3	2.1	10.3
#200	0.8	1.2	1.8	8.3


3/8 IN.
COMPANY, INC.
P.O. Box 677
Worthington, Ohio 43085


Explorer® Pro
Max 12000g d= 0.1g
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Print
WEIGHT
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100%
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GRAMS
CONTRAST
MOVE HIGHLIGHT
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→0/T←
OHAUS

MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

MoDOT

2024

Fourth Edition

April 2025

Missouri Highways and Transportation Commission

SECTION 401
PLANT MIX BITUMINOUS BASE AND PAVEMENT

401.1 Description. This work shall consist of a bituminous mixture placed, spread and compacted as shown on the plans or as directed by the engineer.

401.2 Material.

401.2.1 The grade of asphalt binder will be specified in the contract. When the plasticity index on individual aggregate fractions with 10 percent or more passing the No. 30 sieve exceeds 3, a moisture susceptibility test shall be required in accordance with Sec 401.4.5 during the mix design process. If the plasticity index exceeds that of the material approved for the mix design, additional testing may be required. All material shall be in accordance with Division 1000, Material Details, and specifically as follows:

Item	Section
Coarse Aggregate	1004.2
Fine Aggregate	1002.3
Mineral Filler	1002.4
Hydrated Lime	1002.5
Asphalt Binder, Performance Graded (PG)	1015

401.2.2 Reclaimed Asphalt. Reclaimed Asphalt may be obtained from Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS). The asphalt binder content of recycled asphalt materials shall be determined in accordance with AASHTO T 164, ASTM D 2172 or other approved method of solvent extraction. A correction factor for use during production may be determined for binder ignition by burning a sample in accordance with AASHTO T 308 and subtracting from the binder content determined by extraction.

The use of reclaimed asphalt shall be limited to one of the following options with the exception of bituminous base. For bituminous base the limits specified may be increased according to the recycled materials used as follows; 10% for RAP only, 5% for RAS only and 10% for the appropriate RAP and RAS combination.

Binder	Percent Effective Virgin Binder Replacement		
	RAP	RAS	RAP and RAS combination
Contract Grade Virgin Binder shall be used	0 - 20	0 -10	RAP + (2*RAS) ≤ 20
PG 58-28 Virgin Binder shall be required[a]	21 - 30	11 - 15	20 < RAP + (2*RAS) ≤ 30
Blend Chart[b]	0 - 100	N/A	N/A
Extraction and Grading of Binder from final Mixture[c]	0 - 100		

[a]Contract grades within recycling limits specified in the table shall have a high temperature grade of PG58 or higher and a low temperature grade meeting a PG-28 (Ex. Contract grade PG 64-22; virgin binder could be either PG 58-28 or PG 64-28. Contract grade PG 58-28H; virgin binder remains at PG 58-28H or PG 58-28). The Pressure Aging Vessel (PAV) test temperature (AASHTO M320) shall be tested at 19° C, regardless of the high temperature grade of the selected virgin binder.

[b]Testing in accordance with AASHTO M323 including raw data shall be included with the mix design which demonstrates that the grade of the combine mixture meets the contract requirements.

[c]Testing in accordance with either AASHTO T319, or AASHTO T164 and R59 along with grading in accordance with AASHTO M320 including raw data shall be included with the mix design which demonstrates that the grade of the combine mixture and rejuvenator, if applicable, meets the contract requirements.

Section 401
Bituminous Base and Pavement

Sieve Size Percent Passing by Weight

	Base	BP-1	BP-2
1 inch	100	100	100
3/4 inch	85-100	100	100
1/2 inch	60-90	85-100	95-100
No. 4	35-65	50-70	60-90
No. 8	25-50	30-55	40-70
No. 30	10-35	10-30	15-35
No. 200	4-12	5-12	5-12

SECTION 402
PLANT MIX BITUMINOUS SURFACE LEVELING

402.1 Description. This work shall consist of placing, spreading and compacting a bituminous mixture as shown on the plans or as directed by the engineer. Spot wedging will not be required.

402.2 Material. All material shall be in accordance with Division 1000, Material Details, and specifically as follows:

Item	Section
Coarse Aggregate	1004.2
Fine Aggregate	1002.3
Mineral Filler	1002.4
Asphalt Binder, Performance Graded (PG)	1015.3

402.2.1 Asphalt Binder. The grade of asphalt binder will be specified in the contract.

402.2.2 Wet Bottom Boiler Slag. The contractor may furnish wet bottom boiler slag of approved quality in lieu of coarse aggregate specified in Sec 402.2. If wet bottom boiler slag is used, the slag shall meet the requirements for coarse aggregate, except that the percentage of wear specified in Sec 1004.2.1 will not apply.

402.2.3 Reclaimed Asphalt. Recycled asphalt materials may be used and shall be in accordance with Sec 401.2.2.

402.3 Composition of Mixture. Aggregate sources shall be from the specific ledge combination of ledges within a quarry, or processed aggregate from a particular product, as submitted in the mix design. The total aggregate prior to mixing with asphalt binder shall be in accordance with the following gradation requirements:

Plant Mix Bituminous Surface Leveling	
Sieve Size	**Percent Passing by Weight**
3/4 inch	100
1/2 inch	99-100
3/8 inch	90-100
No. 4	60-90
No. 8	40-70
No. 30	15-35
No. 200	5-12

BP-3 in accordance with Sec 401.3 is an allowable substitution.

402.3.1 Mixture Characteristics. Bituminous surface leveling mixture shall have the following properties, when tested in accordance with AASHTO T 245 or AASHTO T 312. The number of blows with the compaction hammer shall be 35 or the number of gyrations shall be 35 with the gyratory compactor. The mixture shall have a minimum voids filled with asphalt (VFA) of 75 percent. The dust to effective binder ratio shall be 0.8 to 1.6.

Percent Air Voids	AASHTO T 245 Stability lb	Voids in Mineral Aggregate (VMA)
3.5	750	14.5

402.4 Job Mix Formula. The mixture shall be in accordance with Sec 401.4.

402.5 Gradation and Deleterious Content Control. In producing mixture for the project, the plant shall be operated such that no deviations from the job mix formula are made. The contractor shall determine on a daily basis, at a minimum, the combined gradation and binder content if production exceeds 100 tons per day.

Section 402
Surface Leveling

Bituminous Surface Leveling

Sieve Size	Percent Passing by Weight
3/4 inch	100
1/2 inch	99-100
3/8 inch	90-100
No. 4	60-90
No. 8	40-70
No. 30	15-35
No. 200	5-12

LIQUID ASPHALTS AND EMULSIONS

Asphalt Binder testing

PG58-28, PG64-22, PG76-22

Grading System Based on Climate

PG	64	-22
Performance Grade	Average 7-day max pavement design temp	Min Pavement design temperature

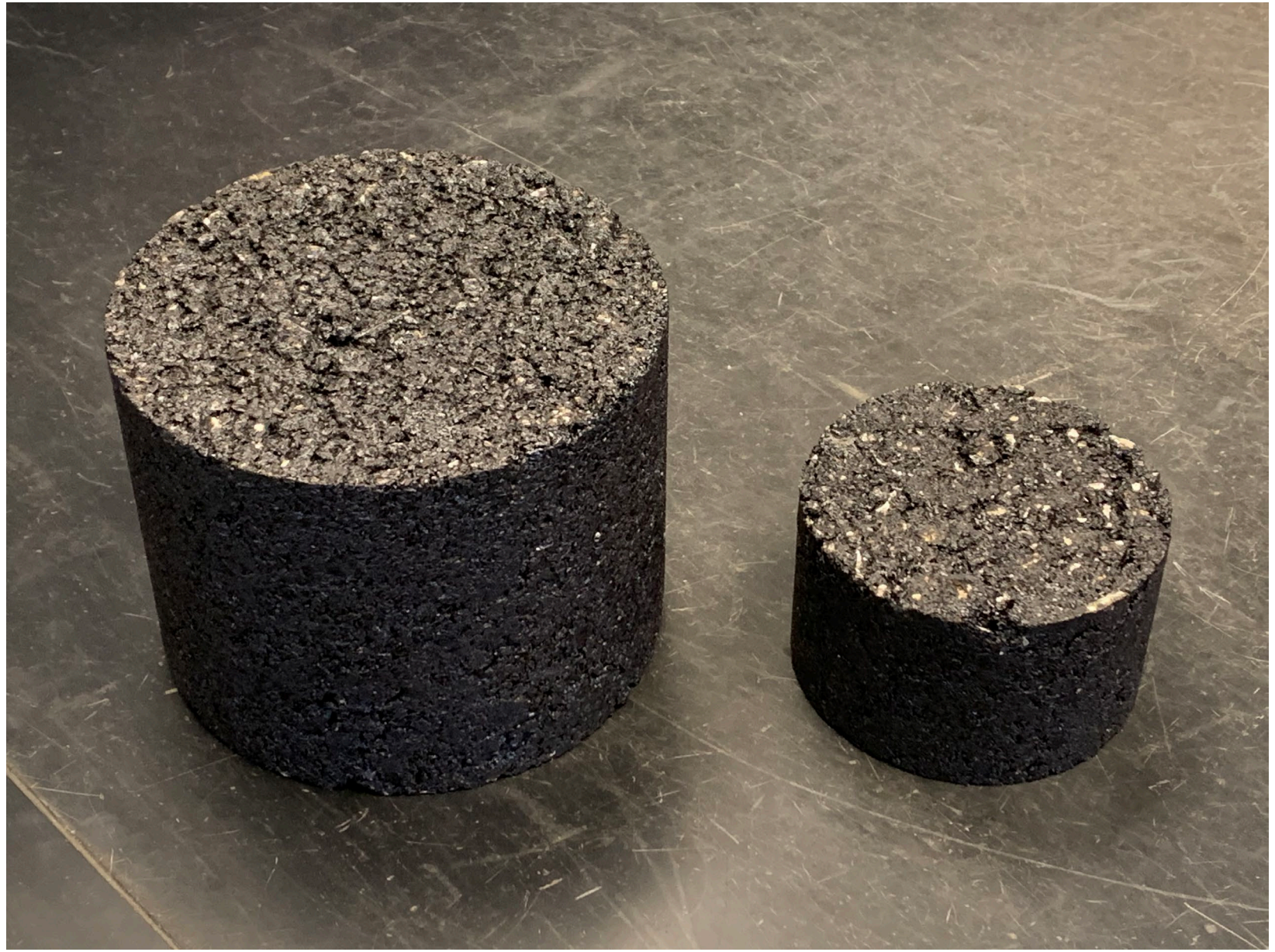
Emulsion Testing

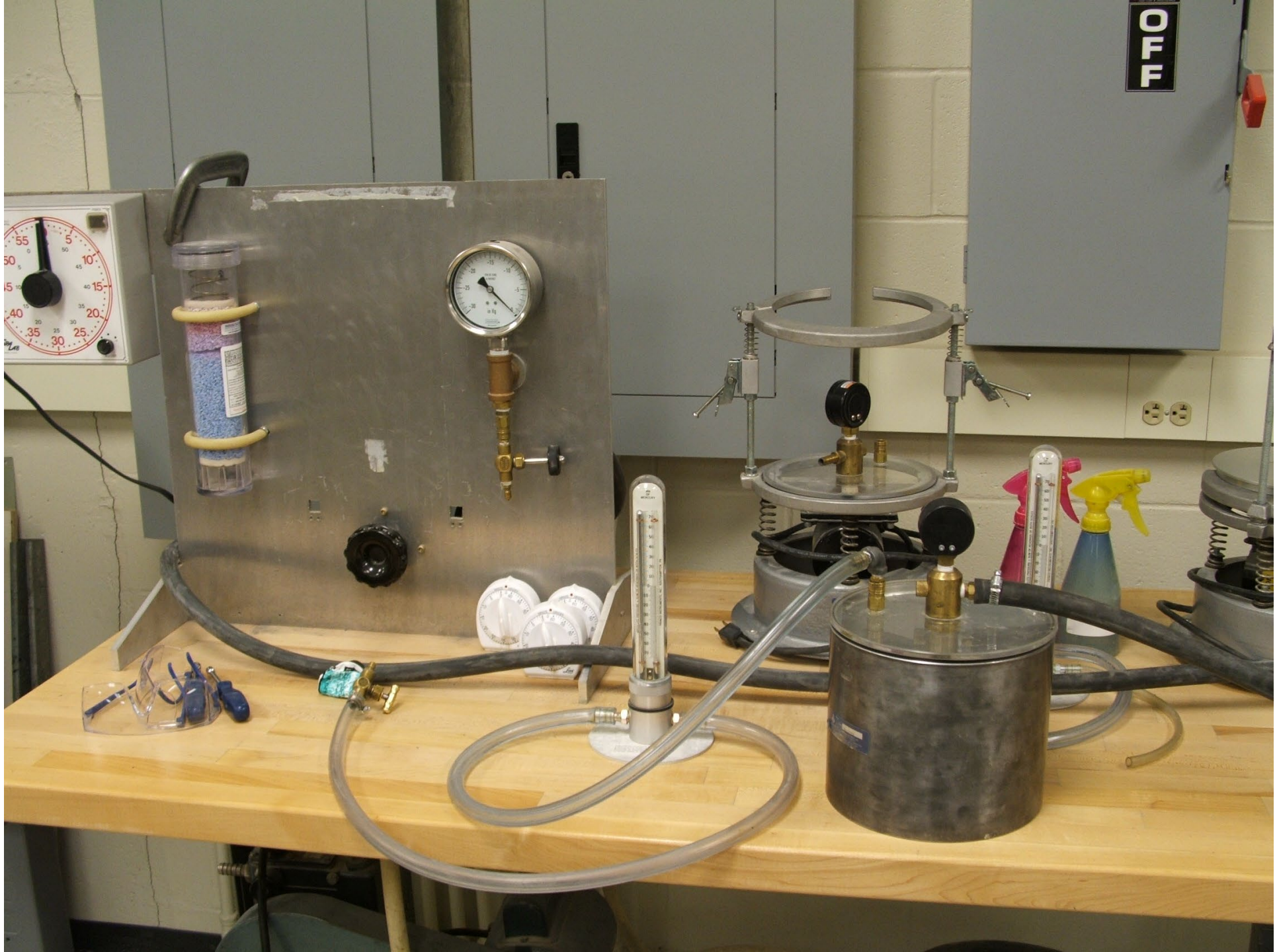
Prime, Tack, Fog Seal, Chip Seal oil

Testing for penetration, hardness/stiffness, curing time


PINE


Gyratory Compactor
PINE
Instrument Company
START
DOWN

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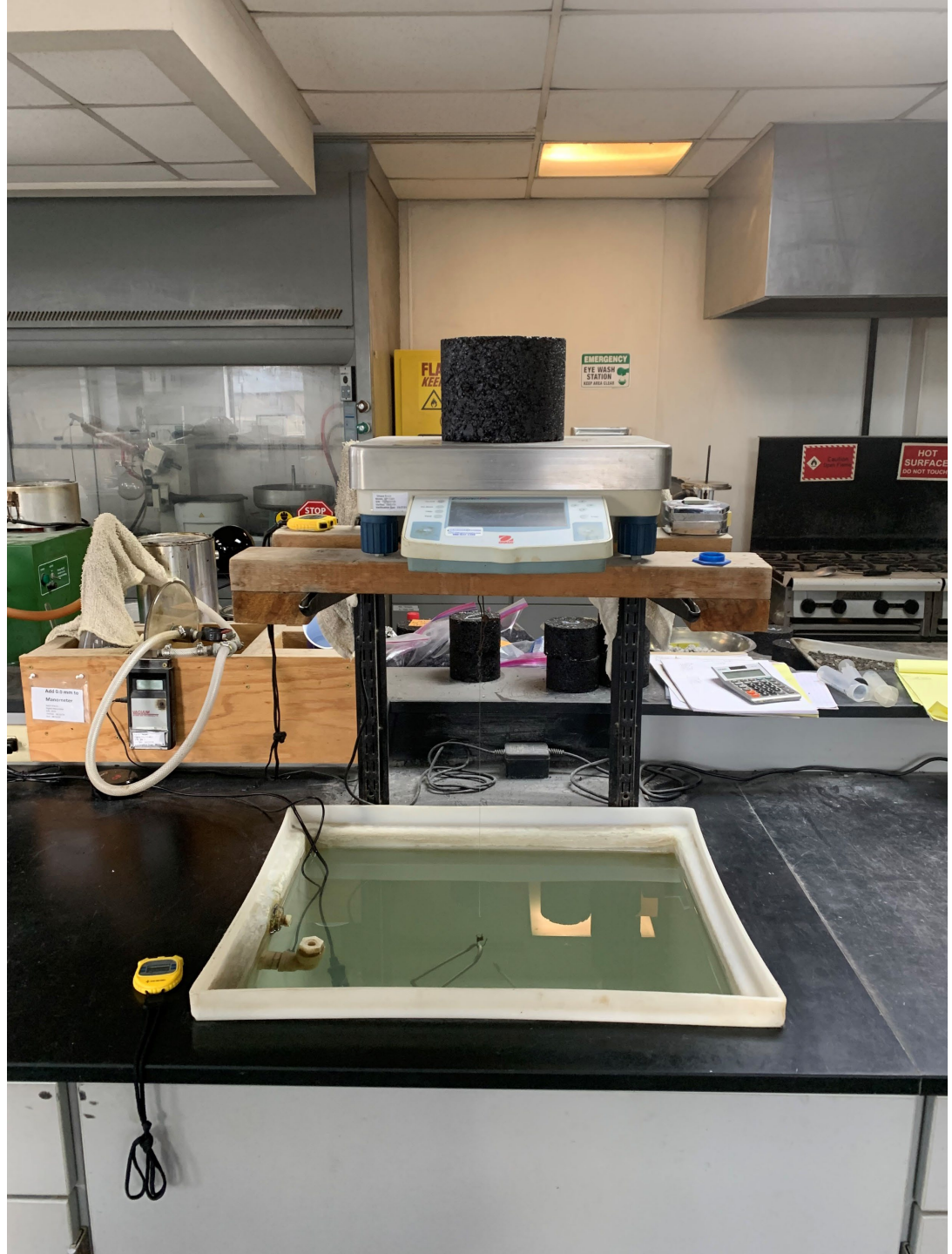

EMERGENCY
EYE WASH
STATION
HOT
SURFACE
STOP

SECTION 403
ASPHALTIC CONCRETE PAVEMENT

403.1 Description. This work shall consist of providing a bituminous mixture to be placed in one or more courses on a prepared base or underlying course as shown on the plans or as directed by the engineer. The contractor shall be responsible for QC of the bituminous mixture, including the design, and control of the quality of the material incorporated into the project. The engineer will be responsible for QA, including testing, to assure the quality of the material incorporated into the project.

403.1.1 Naming Convention. The nomenclature of Superpave bituminous mixture names, such as SP125CLP, will be as follows. When only the aggregate size is shown, such as SP125, the specifications shall apply to all variations of that size, such as SP125B, SP125C, SP125CLP, etc. When "x" is indicated, such as SP125xLP, specifications shall apply to all variations of mixture designs. Stone Matrix Asphalt will be generally referred to as SMA and designated by SM or SMR.

Superpave Nomenclature	
SP	**Superpave**
048	4.75mm (No. 4) nominal aggregate size
095	9.5 mm (3/8 inch) nominal aggregate size
125	12.5 mm (1/2 inch) nominal aggregate size
190	19.0 mm (3/4 inch) nominal aggregate size
250	25.0 mm (1 inch) nominal aggregate size
x	Mixture design: B, C, E or F (as described below)
LP	Limestone porphyry (when designated)
SM	Stone Matrix Asphalt (when designated)
SMR	Stone Matrix Asphalt limestone/non-carbonate (when designated)

403.1.2 Design Levels. The following cumulative equivalent single axle loads (ESALs) shall be used for the specified mix design. The same size aggregate mix design at a higher design traffic may be substituted at the contractor's expense for the contract specified mixture design with the approval from the engineer. Substitutions shall be done uniformly and project mixing of various designs for the same work will not be permitted. For example, an SP125B mixture may be substituted for an SP125C mixture, or SP190C for SP190E, etc. Mixture design substitution will be limited to one design level higher than that specified in the contract.

Design Traffic (ESALs)	Design
< 300,000	F
300,000 to < 3,000,000	E
3,000,000 to < 30,000,000	C
≥ 30,000,000	B

403.2 Material. All material shall be in accordance with Division 1000, Material Details, and specifically as follow:

Item	Section
Aggregate	1002
Asphalt Binder, Performance Graded (PG)[a]	1015
Fiber Additive	1071
Anti-Strip Additive	1071

[a]The grade of asphalt binder will be specified in the contract.

403.2.1 Fine Aggregate Angularity. Fine aggregate angularity (FAA) shall be measured on the fine portion of the blended aggregate. When tested in accordance with AASHTO T 304 Method A, aggregate particles passing

Section 403
Asphaltic Concrete Pavement

Sieve Size Percent Passing by Weight

	SP190	SP125	SP095
1 inch	100	100	
3/4 inch	90-100	100	
1/2 inch	90 Max	90-100	100
3/8 inch		90 Max	90-100
No. 4			90 Max
No. 8	23-49	28-58	32-67
No. 200	2-8	2-10	2-10

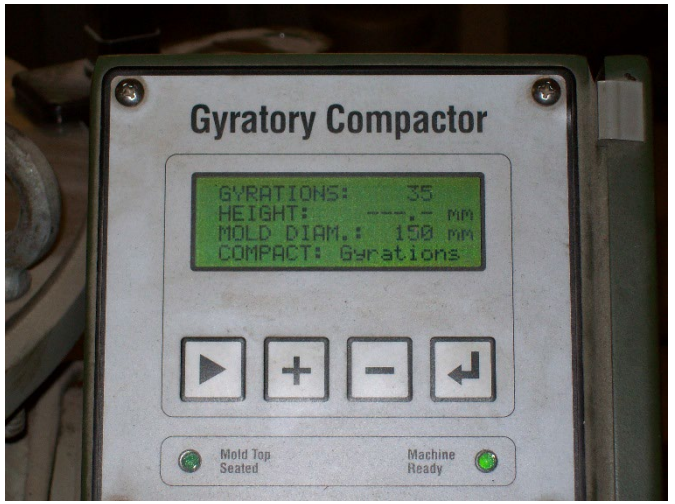

Gyratory Compactor
PINE
Instrument Company
START
DOWN

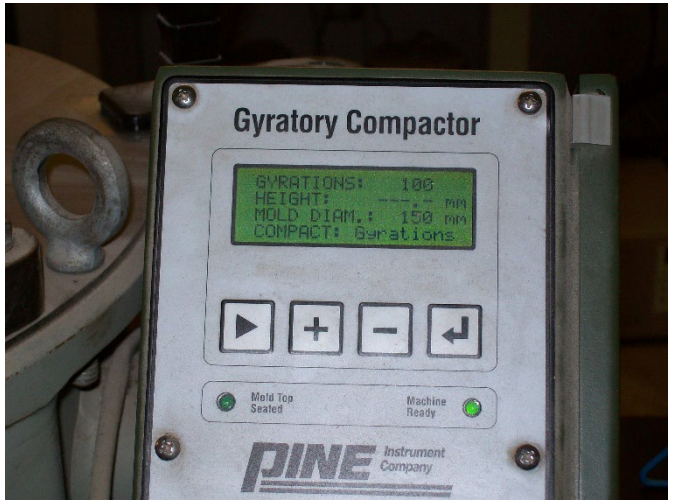
Section 403 Gyration Requirements

- Design C 80 or 100
- Design B 125

- SMA 100

Gyratory Compactor





Asphalt Mix Design Requirements

Volumetrics Properties

- Air Voids
- Voids in Mineral Aggregate(VMA)

Asphalt Mix Design Requirements

401 & 402 Requirements

- 3.5% Air Voids

- Bit Base 13.0% VMA
- BP-1 13.5% VMA
- BP-2 14.0% VMA
- SL 14.5% VMA

403 Requirements

- 4.0% Air Voids

- SP190 13.0% VMA
- SP125 14.0% VMA
- SMA 17.0% VMA

MISSOURI DEPARTMENT OF TRANSPORTATION - CONSTRUCTION & MATERIALS DIVISION
Plant Mix Bituminous Pavement (BP-2)

DATE = 08/26/19 **CONTRACTOR = APEX PAVING COMPANY** **BP2 19-78**

IDENT NO.	PRODUCT CODE	PRODUCER-LOCATION	PI	BULK SP. GR.	APP. SP. GR.	%ABS	FORMATION / LEDGE(s)	% CHERT
19SEMA054	100207..LD1	Southeast Missouri Stone (SEMO), Cape Girardeau, MO		2.689	2.740	0.7	Plattin / 34-22	0.2
19SEMA055	100205..LD1	Southeast Missouri Stone (SEMO), Cape Girardeau, MO		2.687	2.742	0.8	Plattin / 34-22	0.1
19SEMA056	100204..LD1	Southeast Missouri Stone (SEMO), Cape Girardeau, MO	NP	2.683	2.764	1.1	Plattin / 34-22	
19SEMA058	1002NS..NS1	Brenda Kay Sand, LLC (Shakespear Oil), Benton, MO		2.596	2.651		Mississippi River Field Sand / FIELD SAND	
19SEMA024	1002MF..MF	Mississippi Lime Co. #2, Ste. Genevieve, MO		2.685	2.685		Min. Filler	
19SEMA027	1015ACPG..6422	Heartland Asphalt Materials, New Madrid (MFG W.R., IL)		1.030		PG64-22	Mold Temp. 284-294°F	

IN-LINE GRADE = PG64-22 **CONTRACT GRADE = PG64-22**

MATERIAL IDENT #	19SEMA054	19SEMA055	19SEMA056	19SEMA058	19SEMA024	19SEMA054	19SEMA055	19SEMA056	19SEMA058	19SEMA024	COMB. GRAD
19078	3/4"	1/2"	3/8"	NS	MF	5.0	22.0	55.5	16.0	1.5	
3/4"	100.0	100.0	100.0	100.0	100.0	5.0	22.0	55.5	16.0	1.5	100.0
1/2"	43.2	100.0	100.0	100.0	100.0	2.2	22.0	55.5	16.0	1.5	97.2
#4	1.7	6.6	93.2	99.7	100.0	0.1	1.5	51.7	16.0	1.5	70.7
#8	1.4	2.5	58.5	97.7	100.0	0.1	0.6	32.5	15.6	1.5	50.2
#30	1.2	1.8	22.4	79.8	100.0	0.1	0.4	12.4	12.8	1.5	27.2
#200	0.7	1.2	8.9	0.3	75.0		0.3	4.9		1.1	6.4

LABORATORY CHARACTERISTICS AASHTO T-312 35 GYRATIONS						MIXTURE COMPOSITION
	Gmm =	2.494	% VOIDS =	3.5		
	Gmb =	2.407	V.M.A. =	14.4	-200/AC = 1.4	Mineral Aggregate 95.0%
	Gsb =	2.670	% FILLED =	76		Asphalt Content 5.0%

CALIBRATION NUMBER = **MASTER GAUGE BACK CNT. =** **A1 =**

MASTER GAUGE SER. NO. = **SAMPLE WEIGHT =** **A2 =**

MISSOURI DEPARTMENT OF TRANSPORTATION - CONSTRUCTION & MATERIALS DIVISION
Plant Mix Bituminous Pavement (BP-2)

DATE = 04/15/20 | CONTRACTOR = APEX PAVING COMPANY | BP2 20-51

IDENT NO.	PRODUCT CODE	PRODUCER-LOCATION	PI	BULK SP. GR.	APP. SP. GR.	%ABS	FORMATION / LEDGE(s)	% CHERT
20SEMA075	1002D5. LD1	Southeast Missouri Stone (SEMO), Cape Girardeau, MO		2.688	2.745	0.8	Plattin / 15-5A	0.1
20SEMA076	1002D4. LD1	Southeast Missouri Stone (SEMO), Cape Girardeau, MO	NP	2.684	2.762	1.1	Plattin / 15-5A	
20SEMA077	1002NS. NS2	Brenda Kay Sand, LLC (Shakespear Oil), Benton, MO		2.601	2.661		Mississippi River Field Sand / FIELD SAND	
20SEMA083	1002. RAP2	Delta Asphalt, Cape Girardeau, MO		2.636	2.636		RAP / 4.4% AC	
20SEMA081	1002. SHGL	Renewable Resources, Cape Girardeau, MO		2.600	2.600		SHINGLES / 19.2% AC	
20SEMA020	1002MF. MF	Mississippi Lime Co. #2, Ste. Genevieve, MO		2.613	2.613		Min. Filler	
20SEMA028	1015ACPG. 5828	Heartland Asphalt Materials, New Madrid (MFG W.R., IL)		1.023		PG58-28	Mold Temp. 286-296°F	

IN-LINE GRADE = PG58-28 | CONTRACT GRADE = PG64-22

MATERIAL IDENT #	20SEMA075	20SEMA076	20SEMA077	20SEMA083	20SEMA081	20SEMA020	20SEMA075	20SEMA076	20SEMA077	20SEMA083	20SEMA081	20SEMA020	COMB.
20051	1/2"	3/8"	NS	RAP	SHINGLES	MF	24.0	31.0	14.0	29.0	1.0	1.0	GRAD
3/4"	100.0	100.0	100.0	100.0	100.0	100.0	24.0	31.0	14.0	29.0	1.0	1.0	100.0
1/2"	100.0	100.0	100.0	98.7	100.0	100.0	24.0	31.0	14.0	28.6	1.0	1.0	99.6
#4	6.6	93.2	98.6	62.5	95.0	100.0	1.6	28.9	13.8	18.1	1.0	1.0	64.4
#8	2.5	58.5	94.8	45.7	85.0	100.0	0.6	18.1	13.3	13.3	0.9	1.0	47.1
#30	1.8	22.4	65.9	25.9	50.0	100.0	0.4	6.9	9.2	7.5	0.5	1.0	25.6
#200	1.2	8.9	0.6	10.2	25.0	75.0	0.3	2.8	0.1	3.0	0.3	0.8	7.1

LABORATORY CHARACTERISTICS AASHTO T-245 35 BLOWS					
Gmm =	2.487	% VOIDS =	3.5	Stability =	2175
Gmb =	2.399	V.M.A. =	14.2	-200/AC =	1.6
Gsb =	2.657	% FILLED =	75		

MIXTURE COMPOSITION	
Mineral Aggregate	95.0%
Virgin Asphalt Content	3.6%
Total Asphalt Content	5.0%

CALIBRATION NUMBER = | MASTER GAUGE BACK CNT. = | A1 =

MASTER GAUGE SER. NO. = | SAMPLE WEIGHT = | A2 =

Jonathan Varner

Digitally signed by Jonathan Varner
Date: 2019.09.24 08:33:38 -05'00'

MISSOURI DEPARTMENT OF TRANSPORTATION - DIVISION OF MATERIALS

ASPHALTIC CONCRETE TYPE SP125CLG

DATE = 09/23/19 | CONTRACTOR = APEX PAVING COMPANY | SP125 19-90

IDENT. NO.	PRODUCT CODE	/ PRODUCER, LOCATION	BULK SP. GR.	APPAR. SP. GR.	%ABS	FORMATION	LEDGES	% CHERT
19SEMA054	100207..LD1	/ Southeast Missouri Stone (SEMO), Cape Girardeau, MO	2.689	2.740	0.7	Plattin	34-22	0.2
19SEMA055	100205..LD1	/ Southeast Missouri Stone (SEMO), Cape Girardeau, MO	2.687	2.742	0.8	Plattin	34-22	0.1
19SEMA056	100204..LD1	/ Southeast Missouri Stone (SEMO), Cape Girardeau, MO	2.683	2.764	1.1	Plattin	34-22	
19SEMA058	1002NS..NS1	/ Brenda Kay Sand, LLC (Shakespear Oil), Benton, MO	2.596	2.651		Mississippi River Field Sand	FIELD SAND	
19SEMA101	1002..RAP1	/ Delta Asphalt, Cape Girardeau, MO	2.656	2.656		RAP	5.3% AC	
19SEMA028	1015ACPG..6422H	/ Heartland Asphalt Materials, New Madrid (MFG W.R., IL)	1.034		PG64-22H	Gyro Mold Temp. 284-294°F		

IN-LINE GRADE = PG64-22H | CONTRACT GRADE = PG70-22

MATERIAL IDENT #	19SEMA054	19SEMA055	19SEMA056	19SEMA058	19SEMA101	19SEMA054	19SEMA055	19SEMA056	19SEMA058	19SEMA101	COMB.
19090	3/4"	1/2"	3/8"	NS	RAP	5.0	36.0	28.0	6.0	25.0	GRAD
1 1/2"	100.0	100.0	100.0	100.0	100.0	5.0	36.0	28.0	6.0	25.0	100.0
1"	100.0	100.0	100.0	100.0	100.0	5.0	36.0	28.0	6.0	25.0	100.0
3/4"	100.0	100.0	100.0	100.0	100.0	5.0	36.0	28.0	6.0	25.0	100.0
1/2"	43.2	100.0	100.0	100.0	91.8	2.2	36.0	28.0	6.0	23.0	95.1
3/8"	4.9	82.3	100.0	100.0	79.0	0.2	29.6	28.0	6.0	19.8	83.6
#4	1.7	6.6	93.2	99.7	39.5	0.1	2.4	26.1	6.0	9.9	44.4
#8	1.4	2.5	58.5	97.7	26.8	0.1	0.9	16.4	5.9	6.7	29.9
#16	1.3	2.1	35.1	93.4	20.2	0.1	0.8	9.8	5.6	5.1	21.3
#30	1.2	1.8	22.4	79.8	16.5	0.1	0.6	6.3	4.8	4.1	15.9
#50	1.1	1.6	14.6	33.1	13.5	0.1	0.6	4.1	2.0	3.4	10.1
#100	1.0	1.4	10.2	3.2	11.8	0.1	0.5	2.9	0.2	3.0	6.6
#200	0.7	1.2	8.9	0.3	10.20		0.4	2.5		2.6	5.5

LABORATORY CHARACTERISTICS AASHTO T312									MIX COMPOSITION	
	Gmm =	2.514	% VOIDS =	4.0	TSR =	94	TSR Wt.		MIN. AGG.	94.7%
	Gmb =	2.413	V.M.A. =	14.5	-200/AC =	1.3	3800	Ndes = 80	VIRGIN ASPHALT CONTENT	4.0%
	Gsb =	2.673	% FILLED =	72	Gyro Wt. =	4800			ASPHALT CONTENT W/ RAP	5.3%

CALIBRATION NUMBER XXXXX | MASTER GAUGE BACK CNT. = XXXX | A1 = -X.XXXXXX

MASTER GAUGE SER. NO. = XXXXX | SAMPLE WEIGHT = XXXX | A2 = X.XXXXXX

Aggregate & Mixture Properties Based on Contractors Mix Design

THANK YOU

DELTA

A COLAS COMPANY