

**OICC-ROICC  
 JACKSONVILLE, NORTH CAROLINA AREA  
 MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA**

**ROUTING SLIP**  
 MCBCL 11000/14 (REV. 04-85)

NO. 484	DATE 29 Oct 85	sel
------------	-------------------	-----

FROM  
 Blizzard Construction Co.

CONTRACT  
 84-C-7951, Pest Control Facility

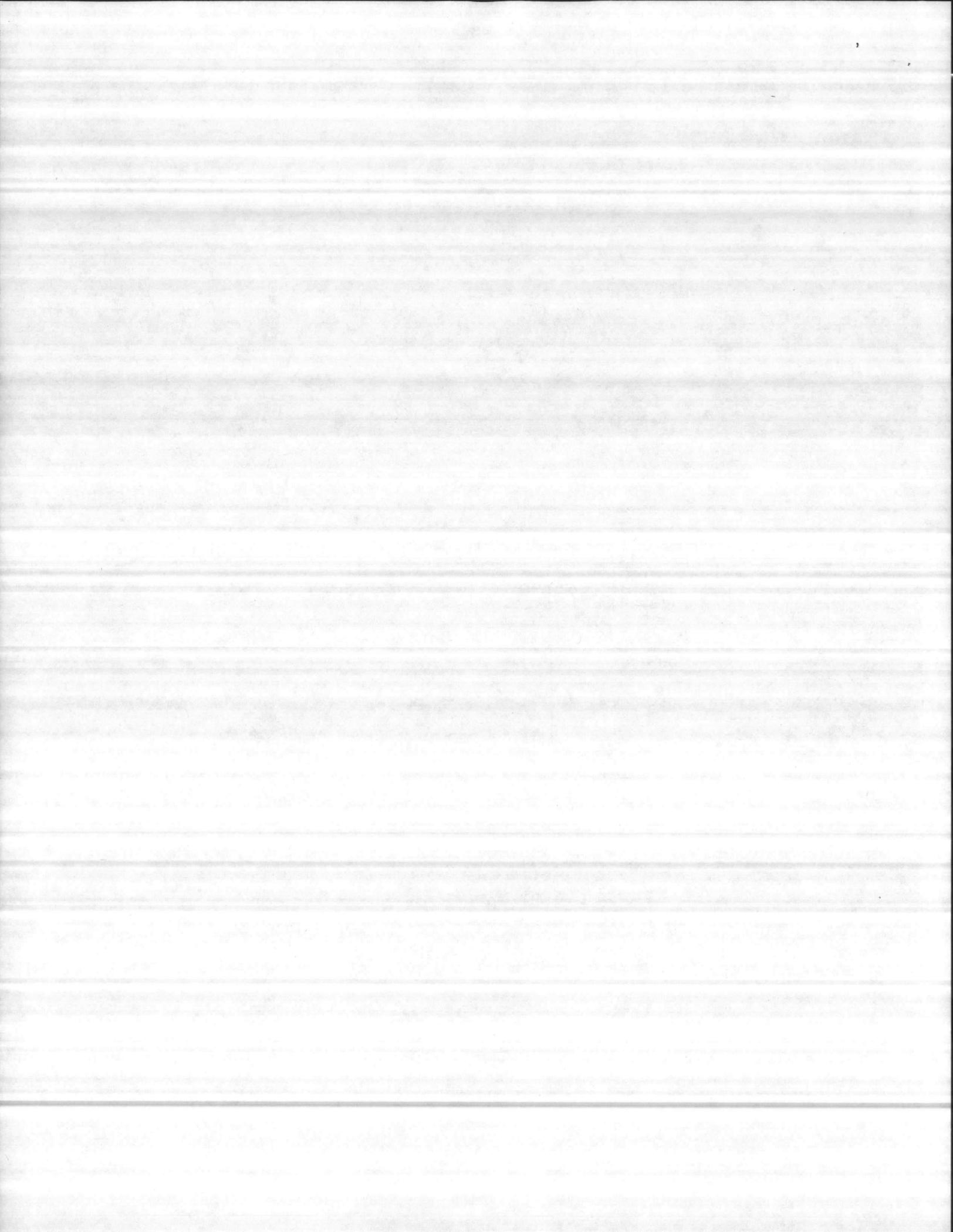
SUBJECT  
 Sub TL # 2, Cert. on concrete; Mfg. data for non-slip  
 surface

COMMENTS

1. H RVR  
 2. Sandy

ROUTING	SEQUENCE	INITIAL	DATE	COMMENTS
JAX/10				
02	2/4	TB 04	11-6	SB
04	3	EJK	4/13	
05				
05A				
05B				
Z				
Y				
X				
W				
V				
U				
T				
S				
R				
H	1	RVR	PNov85	

Return Buck Tag to Contract Branch with correspondence unless otherwise indicated.



Item #1



**BARRUS READY MIXED CONCRETE CO.**

KINSTON, N. C. 28501, HIGHWAY 70 EAST, TELEPHONE 527-8024  
JACKSONVILLE, N. C. 28540, BELL FORK ROAD, TELEPHONE 346-4196  
MOREHEAD CITY, N. C. 28557, HIGHWAY 70 WEST, TELEPHONE 726-2566

23 October 1985

Blizzard Const. Co.  
P. O. Box 372  
Beulaville, N. C. 28518

Re: N62470-84-C-7951 Pest Control Facility, MCB  
Camp Lejeune, N. C.

Gentlemen:

The manufacturer hereby certifies that the following products being furnished for this project conform to all requirements of the rproject specifications and of the referenced specification listed.

<u>Manufacturer</u>	<u>Specification</u>
Barrus Ready Mixed Concrete	Ready Mixed Concrete ASTM- C94

Barrus Ready Mixed Concrete

*C.F. Simoneaux*  
C. F. "Sam" SIMONEAUX

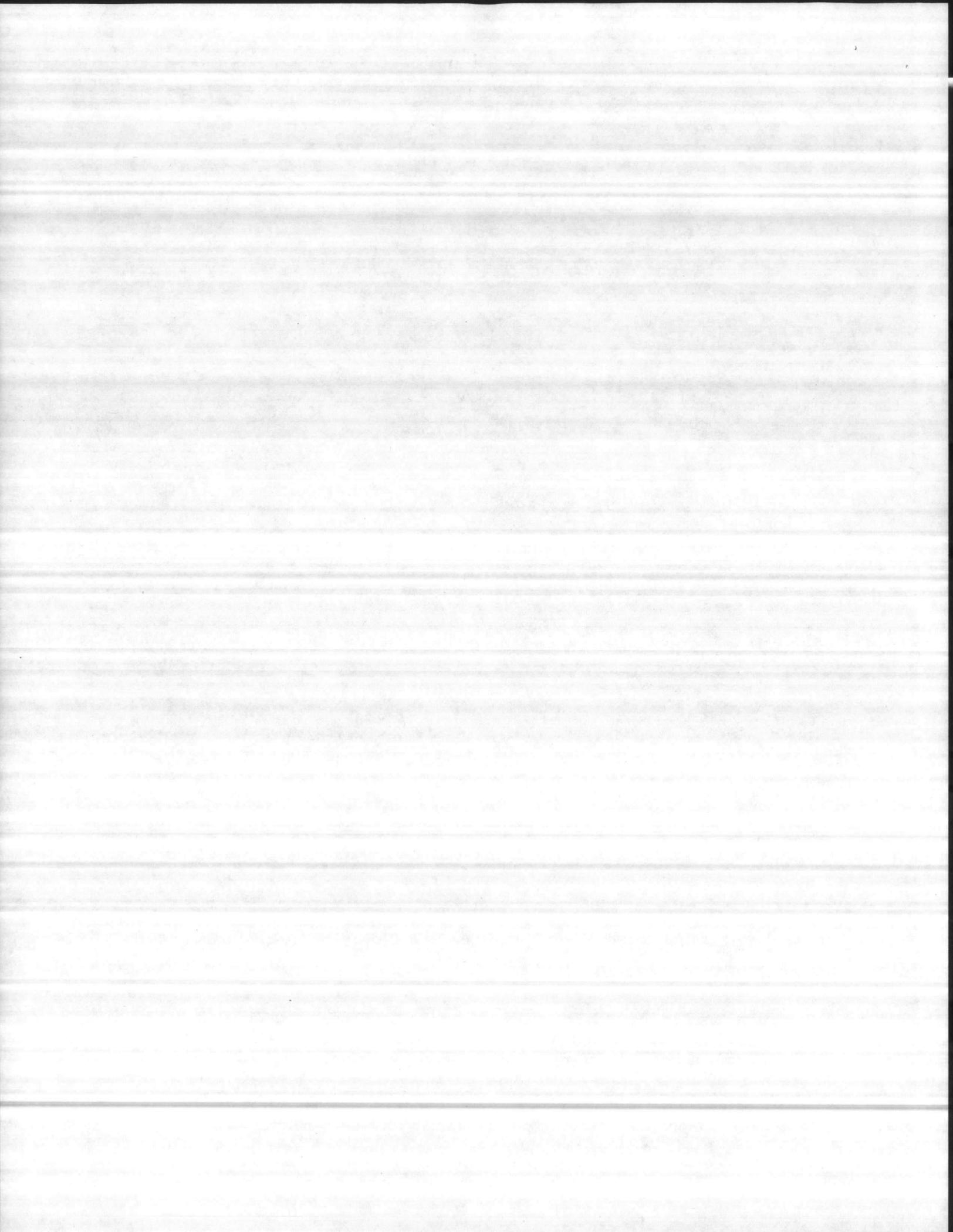
I, Debbie Williams, a Notary Public for Onslow County do certify that before me personally appeared C.F. Simoneaux, who stated that he did in fact execute the foregoing instrument.

*Debbie Williams*  
Notary Public

My Commission Expires July 14 1990

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number C-7951 is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval." Date 28 Oct 85

Certified by *C. Blizzard*





# Surti and Associates

ENGINEERING - SURVEYING - TESTING

PAGE 1

217 HENDERSON DRIVE  
JACKSONVILLE, N. C. 28540  
(919) 455-3564

## CONCRETE MIX DESIGN REPORT

CONTRACTOR \_\_\_\_\_  
OR CLIENT Barrus Ready Mix DATE June 27, 1984  
PROJECT Batch Plant Fly Ash Mixes

### MIX DESIGN SPECIFICATION

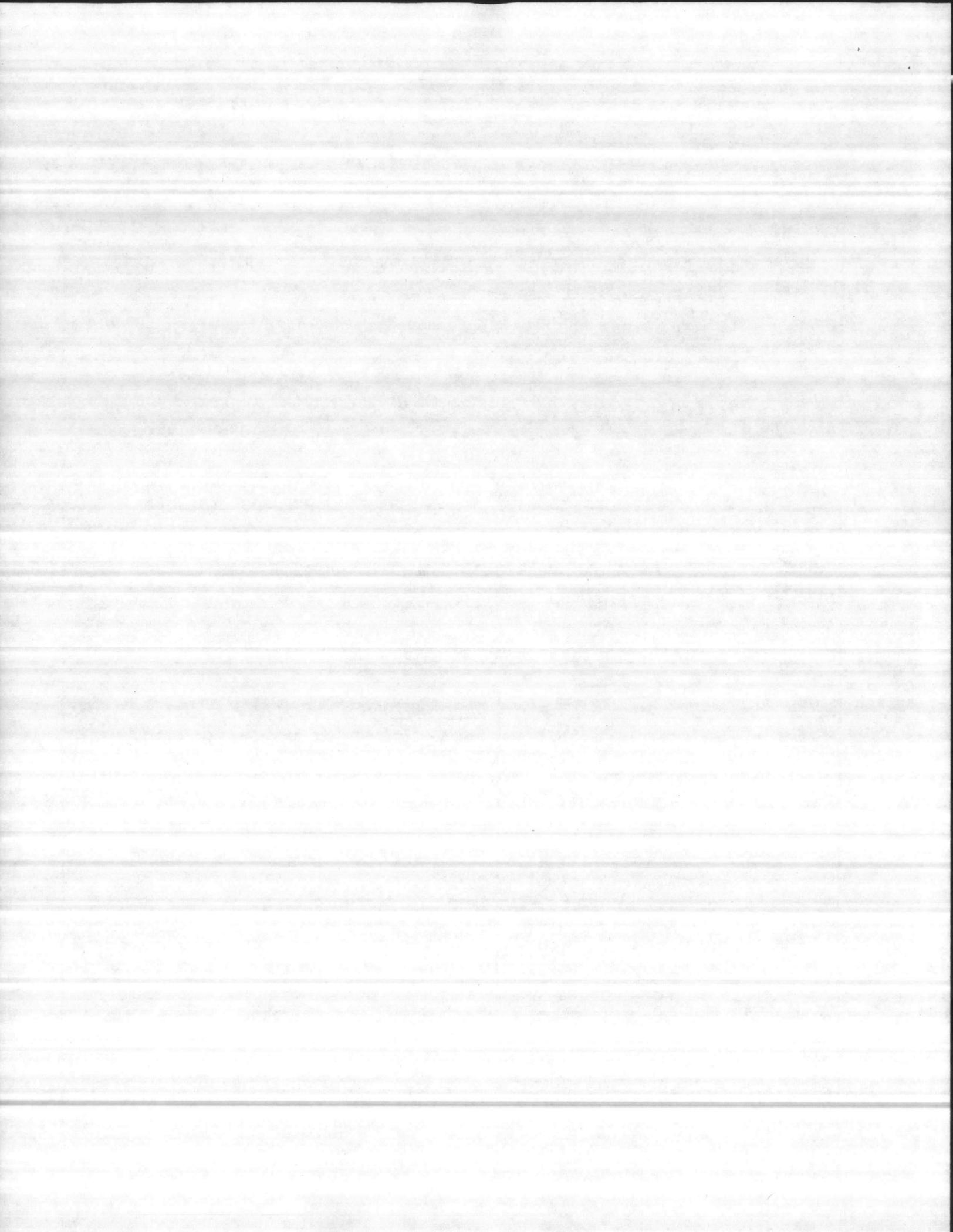
SLUMP 3"-4" CEMENT BAGS / CU.YD. 4.0  
W/C .65 COMPRESSIVE STRENGTH 3000 PSI  
AIR % BY VOLUME \_\_\_\_\_ (without air)

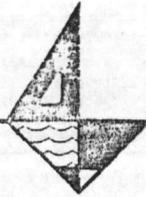
### MATERIALS

#### SOURCE AND ANALYSIS

CEMENT Atlantic Portland Cement, Type I  
COARSE AGGREGATE Martin-Marietta, Belgrade Quarry #57  
FINE AGGREGATE Barrus Construction Co., Poole Pit  
ADMIXTURES Master Builders, WR 122N  
Monier Resorces, Fly Ash, Mayo Plant

<u>COARSE AGGREGATE</u>		<u>FINE AGGREGATE</u>	
SIEVE	% PASSING	SIEVE	% PASSING
1 1/2"	100%	3/8"	100%
1"	98.50%	NO. 4	96.74%
3/4"	86.50%	NO. 8	93.74%
1/2"	38.70%	NO. 16	81.70%
3/8"	12.35%	NO. 30	59.70%
NO. 4	5.80%	NO. 50	19.00%
NO. 8	4.75%	NO. 100	2.60%
		NO. 200	
SPECIFIC GRAVITY	<u>2.33</u>	SPECIFIC GRAVITY	<u>2.62</u>
ABSORPTION	<u>3.40</u>	ABSORPTION	<u>0.90%</u>
WEIGHT		WEIGHT	
LOOSE	_____ LB/CU. FT.	LOOSE	_____ LB/CU. FT.
RODDED	<u>78.80</u> LB/CU. FT.	RODDED	<u>104.00</u> LB/CU. FT.
		FINENESS MODULUS	<u>2.465</u>





# Surti and Associates

ENGINEERING - SURVEYING - TESTING

217 HENDERSON DRIVE  
JACKSONVILLE, N. C. 28540  
(919) 455-3564

June 27, 1984

## MIX BY WEIGHT 3000 psi no air

Dry Materials (SSD)	Batch Weights
Cement: 376 lbs. 4.0 bags	376 lbs.
Coarse Aggregate: 1575 lbs.	1575 lbs.
Sand: 1560 lbs	1638 lbs. (5% Moisture)
Water: 29 Gallons	20 Gallons
Admixtures: 122N 15 oz.	15 oz.
Fly Ash 120 lbs.	120 lbs.

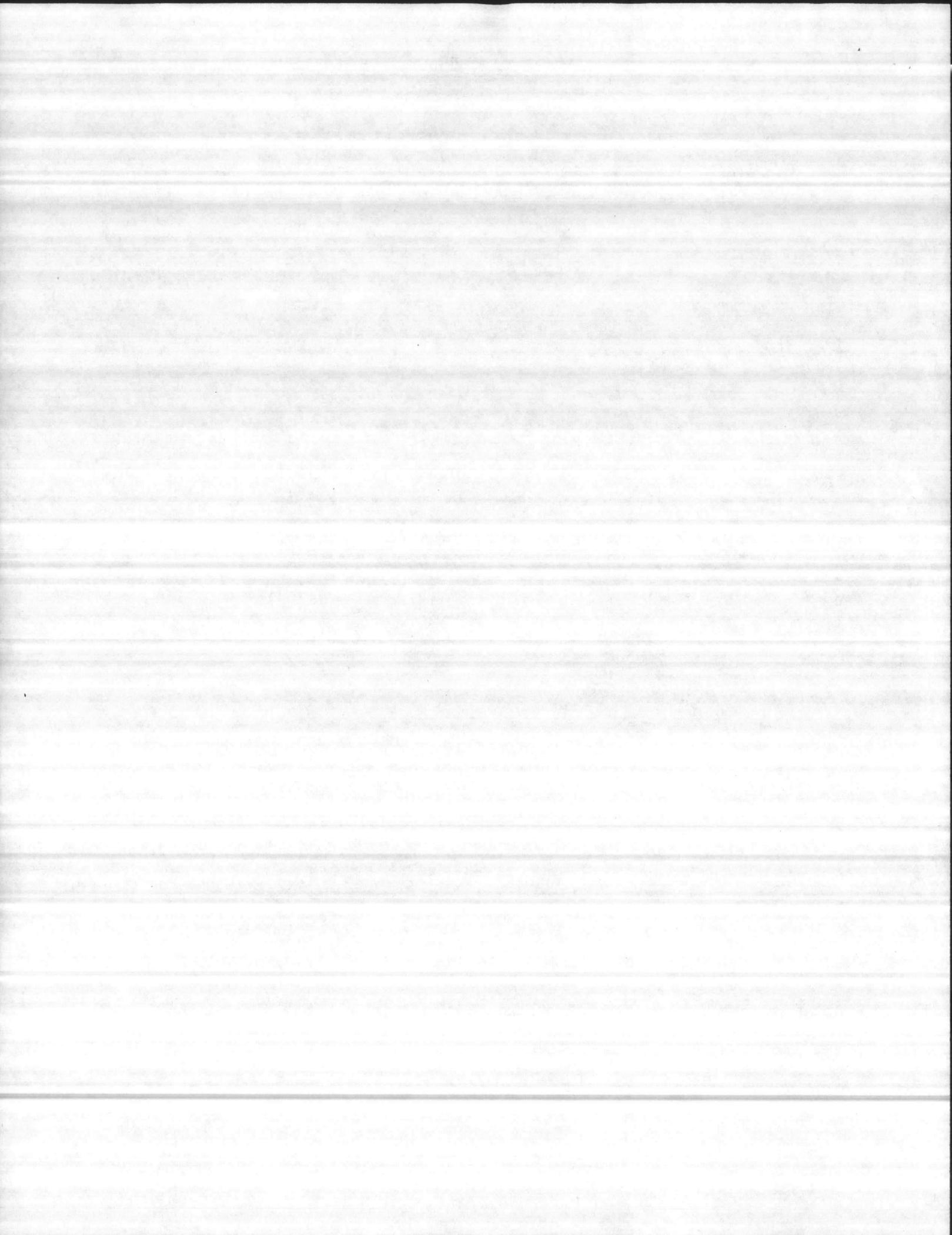
## RESULTS

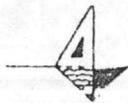
Slump: 3"

## COMPRESSIVE STRENGTH

<u>No</u>	<u>Size</u>	<u>Breaking Load lbs.</u>	<u>Load in PSI</u>	<u>Age-Days</u>	<u>Weight</u>
FM155	6X12	79,500	2812	7	143.26
FM156	6X12	81,000	2865	7	143.66
FM157	6X12	110,500	3908	28	144.03
FM158	6X12	111,500	3943	28	143.41

*L. Surti*  
L. L. Surti, P.E.





CONCRETE MIX DESIGN

REPORT

CONTRACTOR

OR CLIENT Barrus Ready Mix

DATE June 27, 1981

PROJECT Batch Plant Fly Ash Mixes

MIX DESIGN SPECIFICATION

SLUMP 3"-4"

CEMENT BAGS / CU.YD. 4.1

W/C .58

COMPRESSIVE STRENGTH 3000 PSI

AIR % BY VOLUME 5% (+-1)

(with Air)

MATERIALS

SOURCE AND ANALYSIS

CEMENT Atlantic Portland Cement Type I

COARSE AGGREGATE Martin-Marietta, Belgrade Quarry #57

FINE AGGREGATE Barrus Construction Co., Poole Pit

ADMIXTURES Master Builders, WR 122N and MBAE-10

Monier Resources, Fly Ash, Mayo Plant

COARSE AGGREGATE

SIEVE	% PASSING
1½"	100%
1"	98.50%
¾"	86.50%
½"	38.70%
3/8"	12.35%
NO. 4	5.80%
NO. 8	4.75%

SPECIFIC GRAVITY 2.33

ABSORBTION 3.40%

WEIGHT

LOOSE LB/CU. FT.

RODDED 78.80 LB/CU.FT.

FINE AGGREGATE

SIEVE	% PASSING
3/8"	100%
NO. 4	96.74%
NO. 8	93.74%
NO. 16	81.70%
NO. 30	59.70%
NO. 50	19.00%
NO. 100	2.60%
NO. 200	

SPECIFIC GRAVITY 2.62

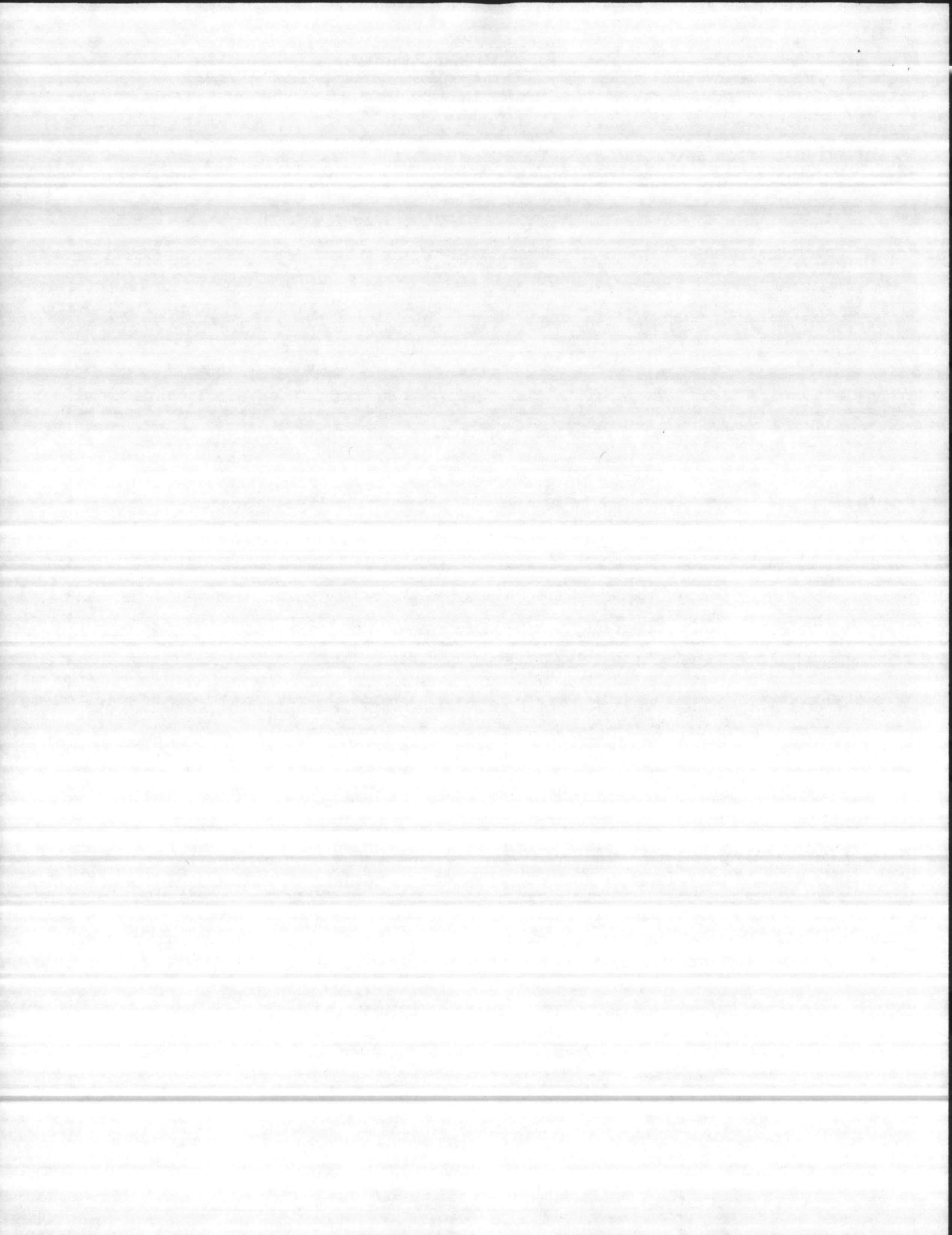
ABSORBTION 0.90%

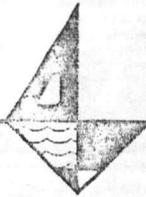
WEIGHT

LOOSE LB/CU.FT.

RODDED 104.00 LB/CU.FT.

FINENESS MODULUS 2.465





# Surti and Associates

ENGINEERING - SURVEYING - TESTING

217 HENDERSON DRIVE  
JACKSONVILLE, N. C. 28540  
(919) 455-3564

June 27, 1984

MIX BY WEIGHT 3000 psi W/Air

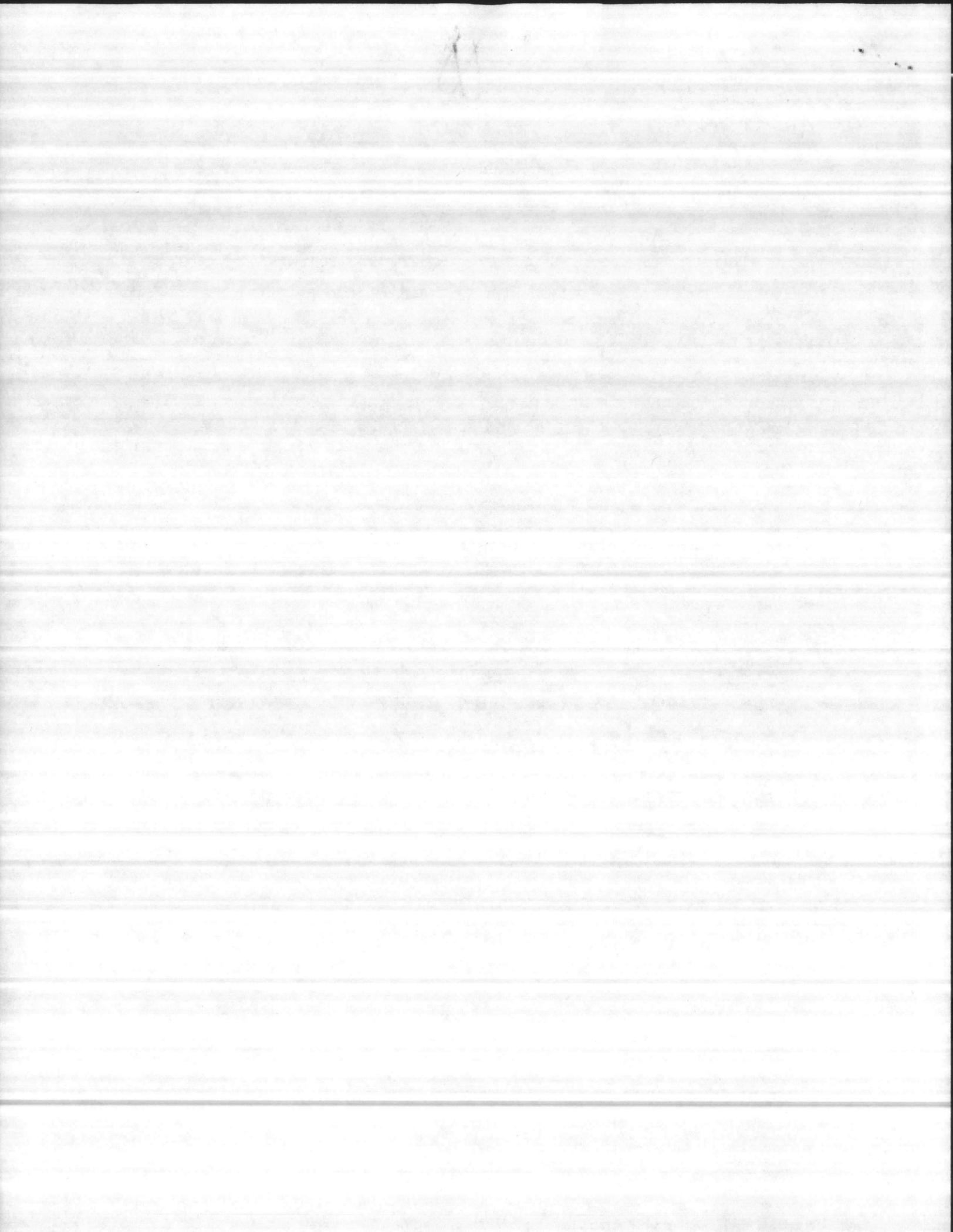
Dry Materials (SSD)	Batch Weights
Cement: 386 lbs. 4.1 bags	386 lbs.
Coarse Aggregate: 1575 lbs.	1575 lbs.
Sand: 1376 lbs.	1445 lbs. (5% Moisture)
Water: 27 Gallons	19 Gallons
Admixtures: 122N 15 oz.	15 oz.
MBAE-10 4 oz.	4 oz.
Fly Ash 120 lbs.	120 lbs.

## RESULTS

Slump: 3½" Air 5%

<u>ID</u>	<u>Size</u>	<u>Breaking Load lbs.</u>	<u>Load in PSI</u>	<u>Age-Days</u>	<u>Weight</u>
FL159	6X12	74,000	2617	7	138.91
FL160	6X12	74,500	2635	7	139.30
FL161	6X12	99,500	3519	28	139.74
FL162	6X12	100,000	3537	28	139.48

  
E. L. Surti, P. E.





# TECHNICAL DATA

## NON - SLIP

NON-SLIP is a crushed and graded granitic aggregate, recommended wherever a hard, long wearing, heavy duty, non-slip floor is required. Its wear resistant qualities exceed many times those of stone, gravel and various other selected materials often used in the construction of heavy duty floors. It is scientifically graded to produce a perfect combination of sharp irregular particles, ranging from large to small, which mesh together and form an excellent acid resisting non-slip surface. Available in standard #8-#30 size and other sizes to meet specific specifications.

### WHERE USED

NON-SLIP is used in floor surfaces of food processing plants, dairies, breweries and wherever concrete surfaces are exposed to water and acid solutions. It is also used on stairways, platforms and ramps carrying pedestrian traffic in public and private buildings. NON-SLIP is a must for parking garage ramps where additional traction is necessary for entering and leaving vehicles.

### ADVANTAGES

1. Provides permanent safety in pedestrian areas such as sidewalks, ramps and platforms.
2. Will not wear smooth or deteriorate.
3. Non-rusting.
4. Most economical non-slip protection.

### ENGINEERING DATA

Typical Physical Analysis	
Specific Gravity	2.94 - 3.00
Soundness - 25 cycles	loss 1.00%
Absorption	.40%
Solubility - 10% hydrochloric at 100° F.	.71%

Screen Size	#8 - #30 Grade
# 8 sieve	7% retained
12 sieve	45% retained
16 sieve	28% retained
30 sieve	20% retained
50 sieve	trace

### DIRECTIONS FOR USE

Place concrete between screed points and strike off to the level of the finished floor. After the concrete has sufficiently set to support knee boards and the surface water glaze has disappeared, sprinkle NON-SLIP, as it comes from the container, over the entire surface. For

NON-SLIP



THE EUCLID CHEMICAL COMPANY

JULY 1975

THE EUCLID CHEMICAL COMPANY  
JULY 1975



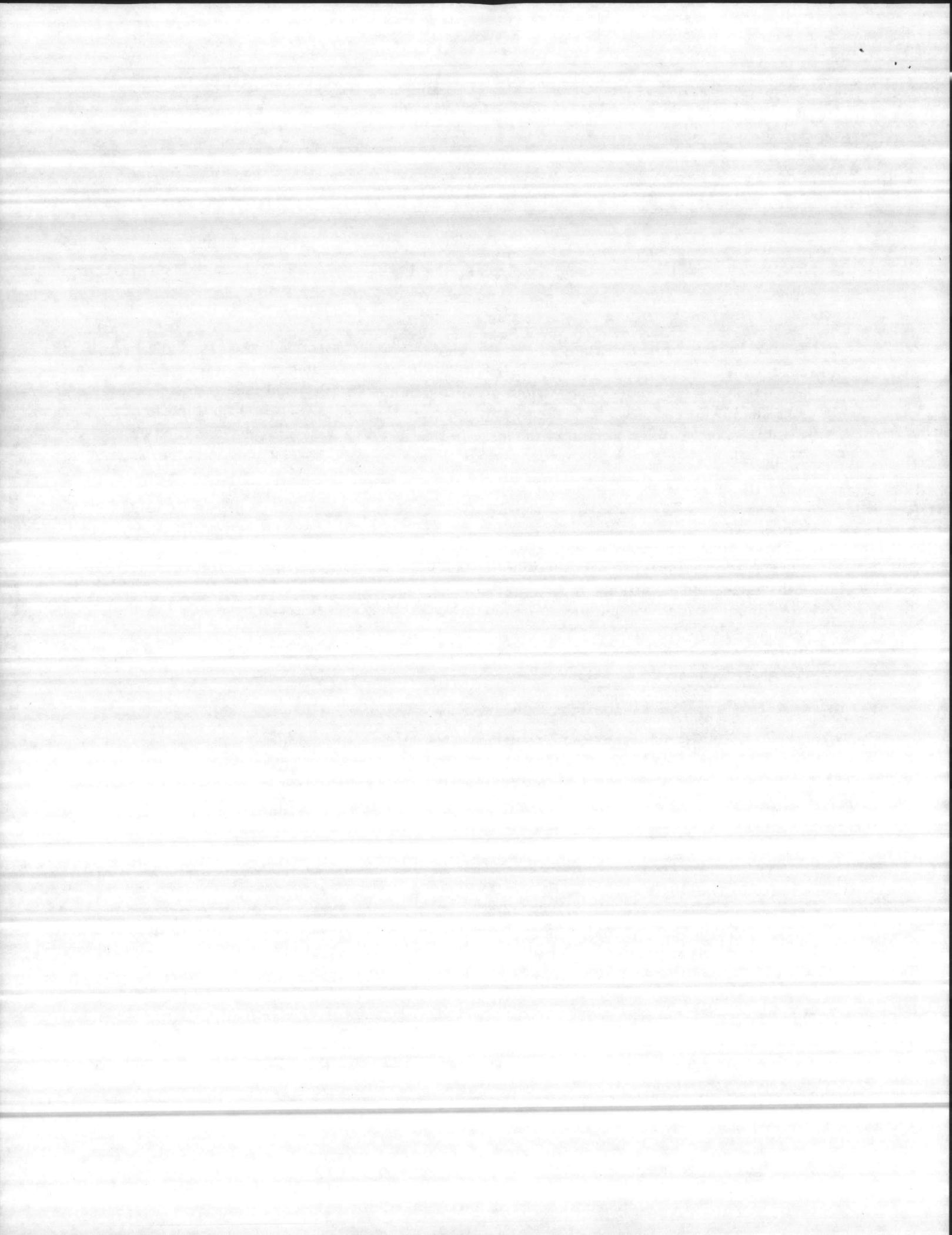
NON-SLIP

# THE EUCLID CHEMICAL COMPANY



19218 Redwood Road  
Cleveland, Ohio 44110  
216/531-9222

Chemists to the Building Industry since 1910



best results and uniformity, the NON-SLIP should be applied in two shakes using approximately 2/3 of the total amount for the first shake and applying the second shake at right angles to the first. Allow the NON-SLIP to absorb moisture and float it into the surface with a wood float or mechanical trowel equipped with float blades in a flat position. Apply second shake and again allow it to absorb moisture from the floor and then work into the concrete surface with the finishing machine or a wood float. When the surface has become sufficiently firm, steel trowel it to produce the surface desired. Finally, cure the surface with EUCO KUREZ, 100% Resin Base or EUCO FLOOR COAT.

ESTIMATED COVERAGE PER 100 SQUARE FEET

Light Duty	-	25 pounds
Medium Duty	-	40 pounds
Heavy Duty	-	60 pounds

ARCHITECTURAL SPECIFICATIONS

Concrete floors and surfaces shall be improved and made abrasion and slip resistant with EUCO NON-SLIP. It shall be applied in strict accordance with the directions of the manufacturer, The Euclid Chemical Company of Cleveland, Ohio.

DISTRIBUTED BY  
 DIXIE FORMING & BUILDING SPECIALTIES, INC.  
 P. O. BOX 27046  
 RALEIGH, N. C. 27611  
 PHONE: 919-832-0592  
 800-662-7147 N. C. WATS  
 800-334-7710 VA. & S. C. WATS

OFFICE OF THE  
 OFFICER IN CHARGE OF CONSTRUCTION  
 CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT 84-7951

DATE 11/13/85

WALTER J. MEYER  
 COLONEL, USN  
 Officer in Charge  
 of Construction

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number C-7951 in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval." Date 11/13/85  
 Certified by [Signature]

