

Center

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 85-C-5142	TRANSMITTAL NO 201	DATE 08/10/87
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FROM CONTRACTOR **WESTMINSTER COMPANY**
 P.O. Box 1167 Jacksonville, N.C. 28540
 TO **J.N. PEASE ASSOCIATES**
 P.O. Box 18725 Charlotte, N.C. 28205

PROJECT TITLE AND LOCATION
Project 721 Hospital
Bachelor Enlisted Quarters
Camp Lejeune, N.C. 28542

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.

**ACTION CODES

List only one of the following categories on each transmittal form,
and indicate which is being submitted

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged.
- C-Comments
- R-Resubmit

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
	02511	BITUMINOUS CONCRETE PAVEMENT	4	A	HRO 8/10/87
8a	2.1.1	JOB MIX FORMULA			
8b	2.1.4	Prime Coat			
8c	2.1.2	Stone Base			

CONTRACTOR'S COMMENTS

P

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC CONTRACTOR REPRESENTATIVE (Signature)
Herschel Ouyk

DATE RECEIVED BY REVIEWER FROM (Reviewer) TO

AUG. 12, 1987 J.N. PEASE ASSOC. ROICC, LANTDIV

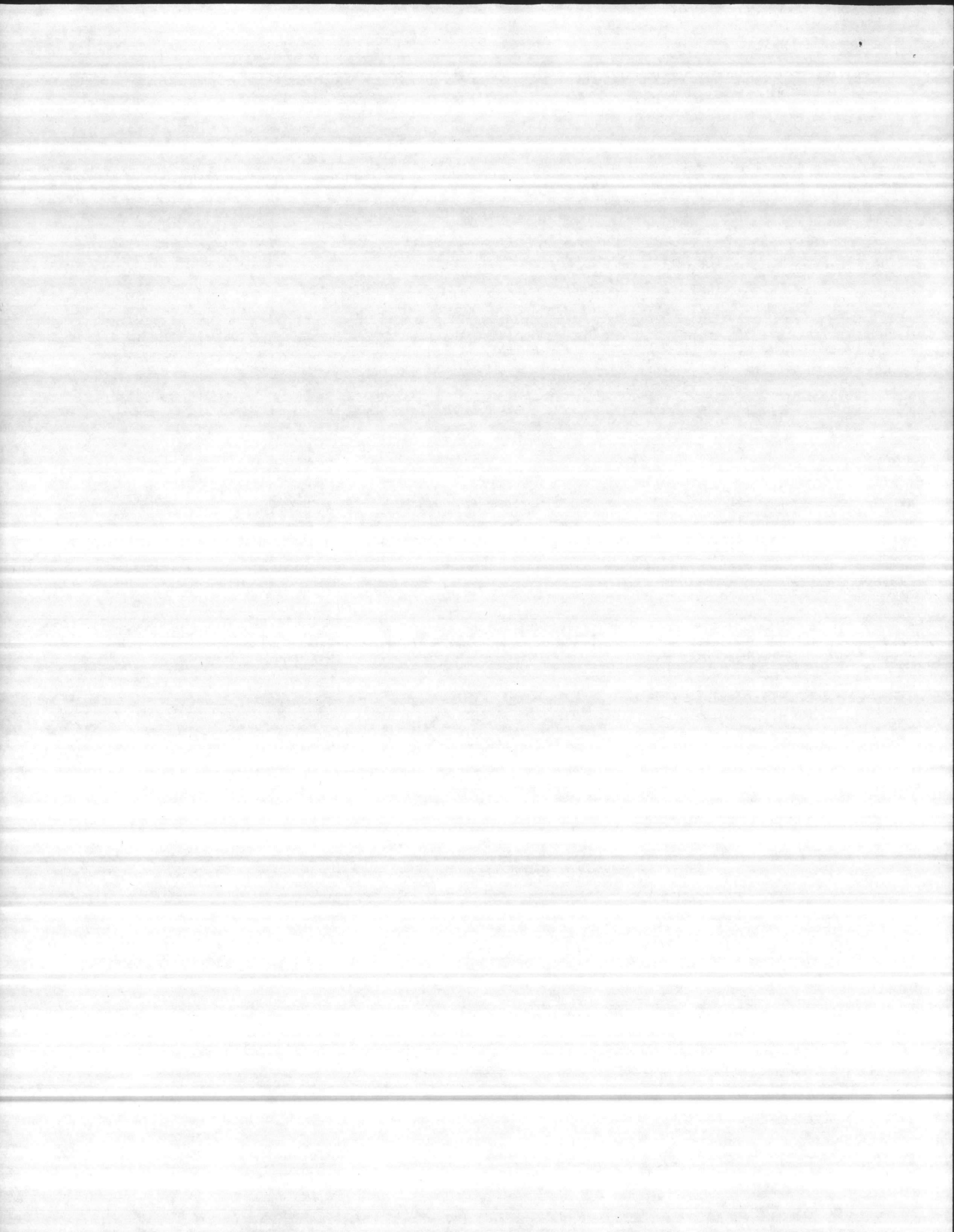
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

RA GB 8-24-87

COPIES TO ROICC (2) LANTDIV (1) A-E (1) DATE SIGNATURE

AUG 25, 1987 *Jale R...*



MARTIN MARIETTA AGGREGATES

POST OFFICE BOX 1535
NEW BERN, NORTH CAROLINA 28560
TELEPHONE (919) 633-5036

July 8, 1987

Dickerson-Carolina, Inc.
2444 Commerce Rd.
Jacksonville, N. C. 28540

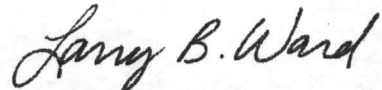
Re: N62470-85-C-5142
05-85-5306
05-85-5142 P-721
Batchelor Enlisted Quarters
MCB, Camp Lejeune, N. C.

Dear Sirs:

We are pleased to advise that the aggregate base course (standard size ABC) and the riprap produced at our Belgrade, N. C. Quarry meet the requirements of the N. C. Department of Transportation's Standard Specifications for Roads and Structures and the specifications for this project.

We appreciate the opportunity to furnish your construction aggregate needs.

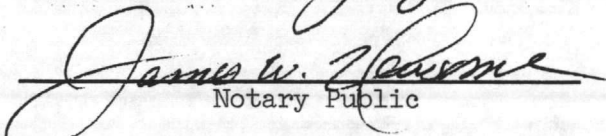
Sincerely,



Larry B. Ward

NORTH CAROLINA
CRAVEN COUNTY

Sworn to and subscribed before me this
8th day of July, 1987.



Notary Public

My Commission Expires: Sept 17, 1990

"It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut(s), etc., and approved/proposed to be incorporated into Contract Number 85-5142, is in compliance with the contract drawings and specifications, and can be installed in the allocated space, and is approved for use submitted for Government approval.

Authorized Reviewer *Ernie Henderson* Date 8/5/87

Signature: CQC Rep *Herchel Ouyts* Date 8/5/87



P.O. Box 1696
Wilmington, NC 28402

July 9, 1987

Bachelor's Enlisted Quarters
Camp Lejuene
N62470-85-5360-05-85-5306-P-721
N62470-85-5360-05-85-5142-P-721

RE: Certificate of Conformity for AC-20 and RC-30

I wish to advise that AC-20 Asphalt and RC-30 Cutback Asphalt supplied from the Amoco Oil Company's Wilmington, North Carolina Terminal meets specifications set forth by North Carolina Department of Transportation Standard Specifications for Roads and Structures, Section 920.

Trusting the above will comply with your requirements.

Yours truly,

Grant R. Mays
Terminal Manager

Sworn to and subscribed by me this the 10th day of July, 1987.

My Commission Expires:
August 19, 1990

Deede Martin

Notary Public



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noted in this submittal, shop drawings, catalog cuts(), etc., and
proposed to be incorporated into Contract
Number 85-5142, is in compliance with the contract
drawings and specifications, and can be installed in the allocated
space, and is approved for use submitted for Government
approval.

Authorized Reviewer *Eric Henderson* Date 8/5/87

Signature CQC Rep *Hendel Ouyt* Date 8/5/87

BITUMINOUS PLANT MIX JOB MIX FORMULA

PRIME CONSTRUCTORS

MAYSVILLE, NC

TYPE MIX: BCSC, TYPE I-1

JOB MIX FORM NO: 86-260-001

EFFECTIVE DATE: 09-17-86

PLANT CERTIFICATION NO: B -109

PROJECT NO:

COUNTY:

THIS JOB MIX FORMULA IS BASED ON INFORMATION FROM
MIX DESIGN NO 86-260 AND TESTS PERFORMED IN THE FIELD

AGGREGATE SOURCES AND BLEND PERCENTAGES

SUPPLIER	SHIPPING POINT	MATERIAL	AMOUNT (%)
MARTIN MARIETTA	NEW BERN QUARRY	#78M	49.0
MARTIN MARIETTA	NEW BERN QUARRY	F. SCRGS.	15.0
MARTIN MARIETTA	BELGRADE QUARRY	C. SCRGS.	34.0
MONIER RESOURCES	ROXBORO, NC	FLYASH	2.0

TOTAL 100.0%

JMF COMBINED GRADATION
SIEVE SIZE % PASSING

2 "	
1 1/2"	
1 "	
3/4"	100
1/2"	98
3/8"	
NO. 4	64
8	49
40	32
80	10
NO. 200	4.2

ASPHALT CEMENT %(TOT) 6.2

GRADE	AC-20
ESTIMATED ASH	0.2
MAX. THEO. SP. GV.	2.350
LABORATORY SP. GV.	2.220
MIN. RDWY. SP. GV.	2.110
MIX TEMPERATURE F.	285
NON STRIP ADDITIVE %	0.00

ASPHALT CEMENT SUPPLIER: SPECS.
TACK COAT SUPPLIER : SPECS.
NON-STRIP ADD. SUPPLIER:

COMMENTS:

NC 2470-85-C 5142 P-731

APPROVED BY:

J.E. GRADY, JR.
PAVEMENT CONSTRUCTION ENGR.

"It is hereby certified that the (material) (equipment) shown and
described in this submittal, shop drawings, catalog cuts, etc., and
approved/proposed to be incorporated into Contract
Number 65-5142, is in compliance with the contract
drawings and specifications, and can be installed in the allocated
space, and is X approved for use submitted for Government
approval.

Authorized Reviewer *Erni Hendon* Date 8/5/67

Signature CQC Rep. *Hendel Ouyts* Date 8/5/67

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
MATERIALS AND TESTS UNIT
RALEIGH, NORTH CAROLINA

SHEET _____ OF _____

REPORT ON STABILITY TEST OF BITUMINOUS MIXTURE

MD 86-260

Date Sampled	8-21-86	Date Received	8-22-86	Date Reported	9-8-86
Project No.	8.1260302	County Onslow			
Specification:	I-1 WS	Specimen: Marshall			
Mat:	New Bern 78M Stone Av. Grad	Roxboro Flyash Av. Grad			
	" " F Scrqs 86-2997-2998				
	Belgrade O. C Scrqs 86-2999-3000	AC-20 West Bank - Chesapeake, Va.			
Mat. Sampled by:	A. K. Murray	Contractor: Dickerson-Carolina, Inc.			
Mix Recommended:	6.2% AC-20	Mix used: 5.0, 5.5, 6.0, 6.5, 7.0% AC-20			

Min. Stability Requirement: 1000 lbs.

U. S. STD. SIEVES	GRADATION OF MATERIALS USED					COMBINATION %
Blend	49%	15%	34%	2.0%		
1 1/4 in.	78M Stone	F Scrqs	C Scrqs	Flyash		
1 in.						
3/4 in.						100
3/8 in.	98		100			99
5/16 in.	80		99			90
No. 4	27	100	98			64
No. 8	6	96	88			49
No. 40	2	70	55	100		32
No. 80	1	20	14	96		10
No. 200	0.5	7.1	3.6	85.3		4.2
Elutriation loss:						
Specific Gravity	2.34	2.66	2.66	2.30		2.486

	FORMULATIONS					
	Mix No. 1	Mix No. 2	Mix No. 3	Mix No. 4	Mix No. 5	Mix No. 6
% Asphalt	5.0	5.5	6.0	6.5	7.0	
Stability Lbs.	2543	2798	2902	2923	2630	
Specific Gravity	2.19	2.21	2.22	2.23	2.25	
Max. Theoretical Sp.Gr.	2.41	2.38	2.36	2.34	2.32	
Total mix lbs. per cu. ft.	136.5	137.8	138.4	139.0	140.3	
Flow 1/100 in.	7	8	8	8	9	
% Solids total mix	90.9	92.9	94.1	95.3	97.0	
% Voids total mix	9.1	7.1	5.9	4.7	3.0	
% by Volume of A. C.	10.7	11.9	13.1	14.2	15.4	
% Solids of Agg. only	80.2	81.0	81.0	81.1	80.6	
% Voids of Agg. only	19.8	19.0	19.0	18.9	19.4	
% Voids filled with Asp.	54.0	62.6	68.9	75.1	79.4	

ASH

-

0.2

Remarks: For: Dickerson-Carolina Maysville Plant

Ac 6.2%

RECEIVED

M - 2.35

L - 2.22

R - 2.11

cm

SEP 15 1986

DIVISION OF HIGHWAYS
PAVEMENT SECTION

C. A. Clippard
Bituminous Design Engineer

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Authorized Reviewer *Janis Hinde* Date 8/5/87

Signature CQC Rep *Herschel Ouyts* Date 8/5/87

AMOCO OIL COMPANY

LABORATORY REPORT

Report No. _____ of Asphalt Shipments. Period _____ through _____
 Shipped By AMOCO OIL COMPANY 3345 RIVER ROAD WILMINGTON, NC 28403
 Shipped To DICKERSON, INC. 2444 COMMERCE ROAD JACKSONVILLE, NC 28540
 Docket _____ P. O. _____ Req. _____ Prof. (SEE BELOW)*

Tests	Shipments		
	Date	Material	D. T. No.
Material	RC-30		
Date	JULY 9, 1987		
Source	TERMINAL STORAGE		
Test No.			
Visc. SF @ 77 °F	90		
Flash Point	80 °F	T.O.C.	
Distillation			
% T. Dist. to 374°F	61.8		
% T. Dist. to 437	75.0		
% T. Dist. to 500	91.2		
% T. Dist. to 600	95.6		
Dist. Res. @ 680°F	66.0 VOL. BY DIFFERENCE		
Slave Test	%		
Settlement	%		
Demulsib.	N.%		
Asph. Residue	%		
Penetration	77°F 100g 5s - 83		
Ductility			
Sol. in CS ₂	99.8%	Trichloroethylene	
Sol. in CCl ₄	%		
Ash	%		
Spot Test	Negative		
Oven Loss 163°C	%		
Pen. of Res.	%		
Spec. Grav.	.9218 (22.0) A.P.I.		

Material RC-30 MEETS Specifications for Grade Shown
 Techn. _____
 Address _____

AASMTO M81 FOR GRADE RC-70. EXCEPT OUTLINES ON PAGE 516, SECTION 92 OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION: STANDARD SPECIFICATION MANUAL.

* PROJECT: BACHELOR'S ENLISTED QUARTERS
 CAMP LEJUENE
 N62470-85-5306-05-85-5306-721
 N62470-85-5306-05-85-5142-721

Reports Tot. Gals. _____

Respectfully submitted,

To: MIKE SESSOMS

Amoco Oil Company

CC To: SAME
 FILE

By: Grant R. Mays
 GRANT R. MAYS, TERMINAL MANAGER

"It is hereby certified that the (material) (equipment) shown and
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Authorized Reviewer Emi Hinder Date 8/5/87

Signature CQC Rep Herschel Deyts Date 8/5/87

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approval.

Authorized Reviewer Eric Henderson Date 8/5/87

Signature CQC Rep Herald D. J. Date 8/5/87