

## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 26, 1992

Virgil Gil 3809 Atrisco NW - Suite A Albuquerque, New Mexico 87120

> RE: GRADING & DRAINAGE PLAN FOR LOTS 66 - 70A ESTRELLA BRILLANTE SUBDIVISION (G-11/D36A) RECEIVED AUGUST 25, 1992 FOR FINAL PLAT APPROVAL STAMPED & DATED AUGUST 21, 1992

Dear Mr. Gil:

Based on the information included in the submittal referenced above, the Grading & Drainage Plan for this project is approved by City Hydrology for Final Plat. The paper easement dedicating the private drainage easement on Lots 65 & 66 must be executed, recorded, and noted on the Plat before Fred Aguirre will sign the Plat.

A copy of the Grading & Drainage Plan must be included in the set of construction drawings submitted for the building permit.

If I can be of further assistance, you may contact me at 768-2727.

Sincerely,

P. Custin

John P. Curtin, P.E. PWD/Hydrology

WPHYD+3219;jpc

xc: Alan Martinez

PUBLIC WORKS DEPARTMENT

**ENGINEERING GROUP** 



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 10, 1992

Richard Norton Post Office Box 2001 Corrales, New Mexico 87048

> RE: GRADING & DRAINAGE PLAN FOR LOTS 66 - 70A ESTRELLA BRILLANTE SUBDIVISION (G-11/D36A) RECEIVED May 29, 1992

Dear Mr. Norton:

Based on the information provided by your resubmittal received May 29, 1992; the Drainage Plan for the above referenced project is approved. The Building Permit for this project can not be released until the Final Plat for Subdivision and Vacation is approved. If you have any questions, you may contact me at 768-2727.

Sincerely, P. Curtin

/ John P. Curtin, P.E. PWD/Hydrology

WPHYD+3219; jpc

PUBLIC WORKS DEPARTMENT

É ENGINEERING GROUP

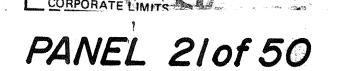
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PROJECT TITLE: ESTRELLA BRILLANTE ZOI	NE ATLAS/DRNG. FILE #:
DRB #: EPC #:	
LEGAL DESCRIPTION: LOTS 66, 67A th	
CITY ADDRESS: <u>ESTRELLA BRILLANT</u>	E ST, NH
ENGINEERING FIRM: IZICHARD NORTON	CONTACT: <u>SAME</u>
ADDRESS: Box 2001 Corrules	PHONE: <u>897-00.38</u>
OWNER: VIRGIL GIL	CONTACT: <u>SAME</u>
ADDRESS: 3809 AVALON & NW	PHONE: 269-0944
ARCHITECT:	
ADDRESS:	
SURVEYOR: OLIVER TRUJICLO	
ADDRESS: 221 AVALON PL NW	
CONTRACTOR:	
	PHONE:
ADDRESS:	FROME:
Conceptual grading & drainage plan	SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D. APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING:	CERTIFICATE OF OCCUPANCY APPROVAL
YES	_ GRADING PERMIT APPROVAL
NO	_ PAVING PERMIT APPROVAL
RESUBMITTAL	_ S.A.D. DRAINAGE REPORT _ DRAINAGE REQUIREMENTS _ OTHER (SPECIFY)
DATE SUBMITTED:	
BY: OLIVER Trusiclo	genterie



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LANDS OF ANN ROMA Northeast

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## PRAINAGE CALCULATIONS (TYPICAL LOT)

H-II-Z

LOT SIZE	- 80 × 32' = 2560 S.F.	
HOUSE	-44 ×22'= 968 SF. × 0.90 = 861	-
DRIVE	- 20' × 20 = 400 S.F. × 0.95 = 380	•
LAWN, ETC.	- 1236 S.F. × 0.25 = 309	
LANNY	1550	

RUNOFF

IMPERVIOUS PERVIOUS

1368×1=1368 1236×.62= 766

# ASSUME TE S 10 MIN. $l = (2.2)(6.84)(10)^{-.51} = 4.65$ $Q = .605(4.65) \frac{2560}{43560} = .16 C.F.S.$

 $\Sigma Q = .605(4.65)(.308) =$ SUMMARY - LOT 66 2557 S.F. LOT GT 1838 LOT 68 1838 LOT 69 1837 LOT 70 1817 LOT 71 3537

13424 S.F. - 0.308 Ac.

 $C_{aus} = \frac{1550}{2560} = 0.605$ 

5102.05 T.C

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LEGEND FINISHED FLOOR ELEY.

EXISTING ELEY PROPOSED ELEV.

SWALE

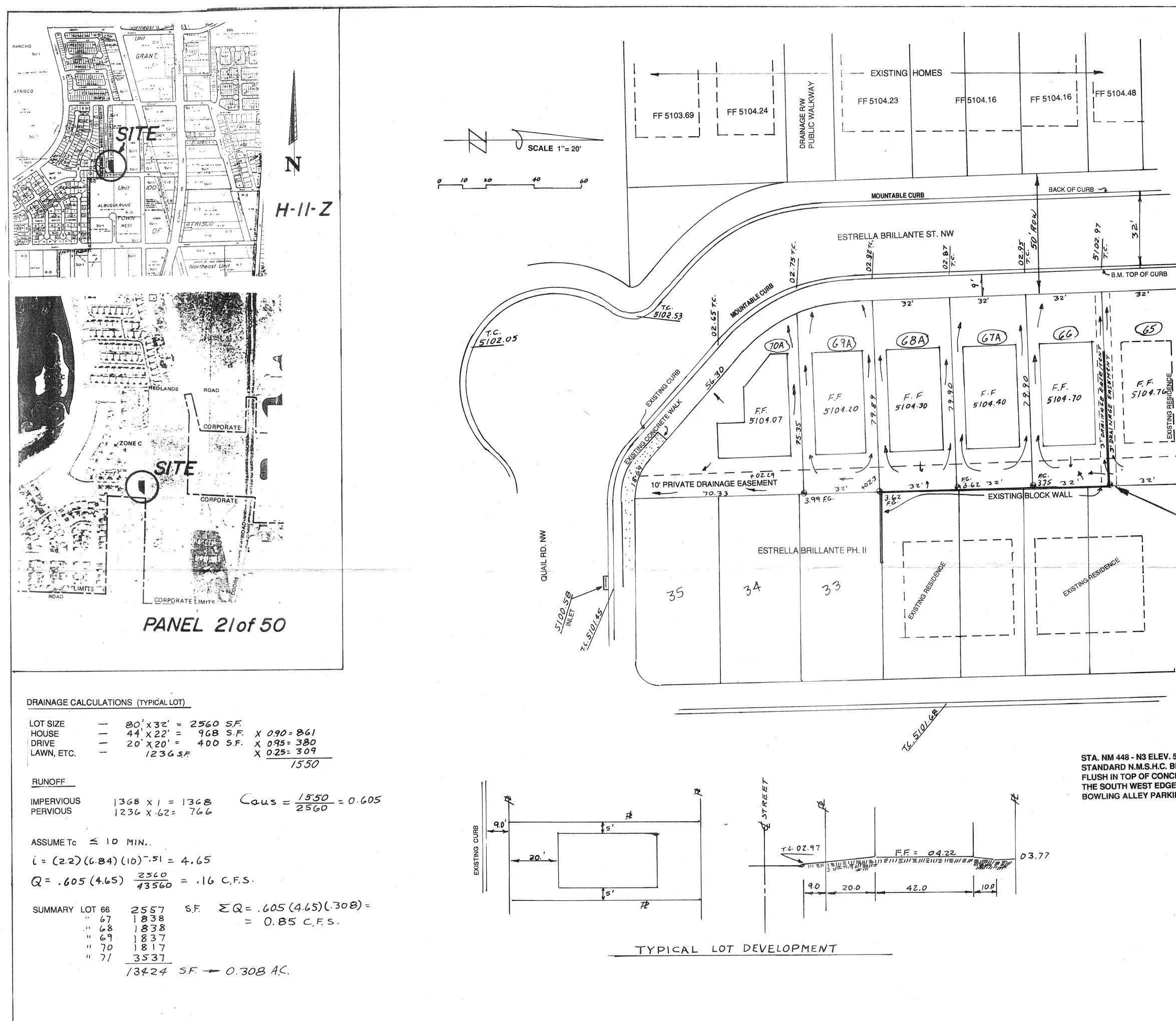
= 0.85 C.F.S.

- FF 5204.07 -029 O399

NOTE FROM PLAT OF ESTRELLA BRILLANTE: Lot 72 is dedicated for water. sewer, Drainage, access, and utility easement. Lots 66-71 are dedicated as a Temporary Drainage Easement Until such time as released by the City Engineer. VACATION REQUEST BY THIS PLAN

The temporary drainage casement (lots 66-71) dedicated by the plat filed August 17, 1983, Book C21, Folio 193 is vacated by the approval and filing of this plat.

B.M 9-H-11 - Eley. 5101.386 CITY OF ALBUQUERQUE 20' 200 Mnivble -10 Drainage Fasent 0317 T.C. 02.97 A.2.0 20.0 4.0 TYPICAL LOT DEVELOPMENT NEGELVE MAY 2 9 1892 HYDROLOGY DIVISION GRADING AND DRAINAGE PLAN LOTS 66, 67A, 68A, 69A, AND 70A ESTRELLA BRILLANTE ALBUQUERQUE, NEW MEXICO JAN, 29, 1992 REVISED APR. 17, 1992 REVISED MAY 27, 1992



 $Q_{*}$ .6> Area: 830° Long Av. 17° Wide = 14, 110° = 0.324 Acs. 30 UNITS W/O New Lots (Existing) Roofs Drain to 5 New Lots the strength -- the street, Rear yards have 6'x 12' Conc. pads 50% Lawns 50% S.W. L.S. 14,110 0' Total Area = Imper Conc. Padsi 6x12×30 = 2,16001 = 15.3% ------Perv. Area = 11,950 01  $= 5,975^{-1} = 42.3^{-1/2}$   $5,975^{-1/2} = 42.4$   $100^{-1/2}$ 50% Lawns 50 % S.W. Lands, Compute AV.C  $C = (.153 \times .95) + (.42 \times .4) + (.424 \times .25) = .15 + .17 + .11 = 0.43$ rainfall 100yr; 6hr = 2.2 PLate 22.2 D-1 Intensity Factor = 2.2 PLate 22.2 D-2 Tc< 10 min. L = 2.2 x 2.2 = 4.84 STA. NM 448 - N3 ELEV. 5099.527 Q= CiA = 0.43 × 4,84 × .324 Ac. = 0.67 c.f.s. 4 (.vzz cfs/lot) STANDARD N.M.S.H.C. BRASS TABLET SET FLUSH IN TOP OF CONCRETE POST LOCATED IN Vol. From INTERIM DRAINAGE DESIGN CRITERIA THE SOUTH WEST EDGE OF "WEST MESA BOWL" Treatment B (Lawns) = 42.3% = 5,975" Zone I BOWLING ALLEY PARKING LOT.  $\frac{2076}{3,585} = \frac{1160}{1,900} = \frac{12.3}{5} = \frac{5}{5},975}$   $\frac{3,585}{1,900} = \frac{15.3}{5} = \frac{2}{160}$ WT.  $E = (.6 \times 5,975) + (.82 \times 5,915 + (1.87 \times 2,160)) = \frac{12,524}{14,110} = 0.89$ Vol360 = 0 89 = 12 × 14,110 = 1,046 C.F. ATT (35 CFS/Lot) OF  $A = 2^{\alpha'}$ WP= 2.23+2.23= 4.46 r= A + WP= 0.45 Assume 5= ,0051'(5%) 512: 0.07 r73= .58 5/2 = ,07 n= ,0251 V = 1.486 r 3 s 1/2 = 2.4 Q= 4.8 c.f.s. d=0.5'  $A=0.5^{0}$  WP=2.23 C=.22  $r^{24}3=.37$ 1= 1.486 x.37×.07 = 1.54 FPS Q= 0,77 C.f.S 2'× 5/2 <u>[</u>] Information Sheet Raul A. Rivera PE&LS No. 1693 Ne. AUG 2 5 1992 8-21-92 HYDROLOGY DIVISION Date New Mexico <u>DECEIVE</u>

### Lots 65-70A ESTRELLA BRILLANTE SUBDIVISION ALBUQUERQUE, NEW MEXICO GRADING AND DRAINAGE PLAN

JANUARY 29, 1992 REVISED APRIL 17, 1992 REVISED MAY 27, 1992 REVISED JULY 20. 1992

THE TEN FEET PRIVATE DRAINAGE EASEMENT NOW EXIST ING ALONG THE EAST SIDE OF LOTS 36 TO 71 HAD BEEN PLACED FOR THE PURPOSE OF HANDLING ANY EXCESS WA TER RUNOFF OF THE REAR YARDS. ALL EXISTING HOUSES VERE BUILT WITH THE ROOFS DRAINING TO THE FRONT OF BUILDINGS, THEREFORE ALL RUNOFFS OF IMPERVIOUS AREA ARE DRAINING TO THE STREET. WE PROPOSE TO PLACE A THREE FEET DRAINAGE EASEMENT ALONG THE SOUTH LOT LINE OF LOT 65 AND ALONG NORTH LOT LINE OF LOT 66 TO DIVERT TO ESTRELLA BRILLANTE NW ANY EXCESS WATER THAT MAY CONCENTRATE AT LOTS 65

EXISTING CURB

AND 66.

NOTE FROM PLAT OF ESTRELLA BRILLANTE: Lot 72 is dedicated for water. sewer, Drainage, access, and utility essents.

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The temporary drainage easement (Lots 66-71) dedicated by the plat filed August 17, 1983, Book C21, Folio 193 is vacated by the approval and filing of this plat. 

LEGEND

FINISHED FLOOR ELEV.	- FF 5204.07
EXISTING ELEV.	- +02.90
PROPOSED ELEV.	- \$03.99
SWALE	

RIVERA ENGINEERING 2624 Valencia Dr. N.E.

881-3419

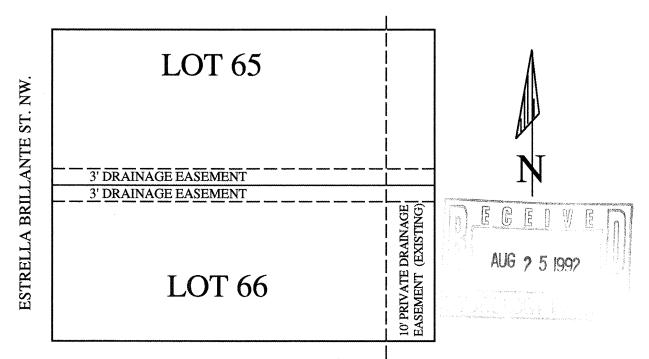
Albuquerque, NM 87110

AUG 2 1 1992

HYDROLOGY DIVISION

#### PRIVATE DRAINAGE EASEMENT DEDICATION

I, VIRGIL GIL THE OWNER OF LOTS 65 AND 66 OF ESTRELLA BRILLANTE A SUBDIVISION TO THE CITY OF ALBUQUERQUE, COUNTY OF BERNALILLO GRANT TO LOTS 37 THRU 64 OF ESTRELLA BRILLANTE THREE FEET PRIVATE DRAINAGE EASEMENT ALONG THE SOUTH PROPERTY LINE OF LOT 65 AND THREE FEET (3') ALONG THE NORTH PROPERTY LINE OF LOT 66, THIS EASEMENT SHALL BE BINDING ON THE OWNERS, AND THEIR RESPECTIVE HEIRS, ASSIGNS AND SUCCESSORS AND ON THE OWNER'S PROP-ERTY.



MAINTENANCE RESPONSIBILITY: OWNERS IN POSSESSION ARE RESPONSIBLE TO UPKEEP AND MAINTAIN ALL EASEMENT AREA.

STATE OF NEW MEXICO ) COUNTY OF BERNALILLO ) SS

VIRGIL GIL

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME BY VIRGIL GIL OWNER OF LOTS 65 AND 66 OF ESTRELLA BRILLANTE ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_ 1992.

MY COMMISSION EXPIRES

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NOTARY PUBLIC