

#### LEGAL DESCRIPTION:

EXISTING: TRACT B, LA CUEVA VILLAGE, UNIT 1 (DRB #96-546)
PROPOSED: LOTS 1-17, LA CUEVA VILLAGE, UNIT 2

#### PROJECT BENCHMARK

AN ALUMINUM CAP LOCATED AT THE SW CORNER OF VENTURA AND SIGNAL AND STAMPED "3-C20".

(NOTE: ELEVATION NOT PUBLISHED. DATA FROM CITY SURVEY DEPARTMENT.)

ELEVATION = 5569.89 FEET (M.S.L.D.)

#### T.B.M

A CHISELED 'D' LOCATED IN THE TOP OF THE SOUTH CURB OF CARMEL AVENUE, APPROXIMATELY 170' WEST OF THE BARSTOW STREET CENTERLINE. ELEVATION = 5466.19 FEET (M.S.L.D.)

T.B.M. #2
A #5 REBAR WITH CAP "ILLEGIBLE" AND LOCATED ON THE EAST RIGHT-OF-WAY LINE OF BARSTOW STREET N.E. AT THE SW CORNER OF TRACT B-1-A, VINEYARD ESTATES (DESERT RIDGE MIDDLE SCHOOL.)
ELEVATION = 5467.52 FEET (M.S.L.D.)

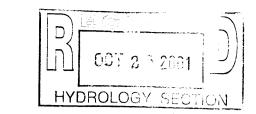
### ENGINEER'S DRAINAGE CERTIFICATION

for

## LOTS 1-17, LA CUEVA VILLAGE UNIT 2

ALBUQUERQUE, NEW MEXICO OCTOBER, 2001

SHEET	INDEX OF DRAWINGS	
1	COVER SHEET, ENGINEER'S DRAINAGE CERTIFICATION, INDEX OF DRAWINGS,	F.I.R.M., VICINITY MAP
2	GRADING PLAN AND GENERAL NOTES	
3	SECTIONS AND DETAILS	



#### ENGINEER'S DRAINAGE CERTIFICATION

#### A. EXECUTIVE SUMMARY

THE FOLLOWING ITEMS ARE REQUIRED FOR FINANCIAL GUARANTY RELEASE FOR THIS PROJECT:

 ENGINEER'S DRAINAGE CERTIFICATION OF THE DRB APPROVED GRADING AND DRAINAGE PLAN FOR LA CUEVA VILLAGE, UNIT 2.

2) CITY ACCEPTANCE OF OFFSITE DRAINAGE IMPROVEMENTS CONSTRUCTED BY AMAFCA UNDER CITY PROJECT # 660281.

3) LETTER OF MAP REVISION (LOMR)

THIS SUBMITTAL ADDRESSES ITEM #1 ONLY. IT IS UNDERSTOOD THAT FINANCIAL GUARANTY RELEASE WILL NOT BE APPROVED FOR THIS PROJECT UNTIL ALL OUTSTANDING ITEMS ARE ADDRESSED. THE CURRENT STATUS OF THE OUTSTANDING ITEMS IS AS FOLLOWS:

OFFSITE DRAINAGE IMPROVEMENTS (ITEM #2) — AMAFCA HAS RECENTLY COMPLETED CONSTRUCTION OF THE OFFSITE PUBLIC DRAINAGE IMPROVEMENTS IDENTIFIED ON THE DRB APPROVED INFRASTRUCTURE LIST. THESE IMPROVEMENTS WERE CONSTRUCTED BY CITY PROJECT # 660281 WHICH HAS NOT YET BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE. THIS PROJECT MUST BE ACCEPTED PRIOR RELEASE OF FINANCIAL GUARANTEES FOR LA CUEVA VILLAGE, UNIT 2.

LOMR (ITEM #3) - A POST-CONSTRUCTION LOMR IS REQUIRED TO REVISE THE FLOOD INSURANCE RATE MAPS TO REFLECT THE RECENTLY CONSTRUCTED AMAFCA DRAINAGE IMPROVEMENTS. THE LOMR SUBMITTAL WILL BE PREPARED AND SUBMITTED BY THIS OFFICE UPON VERIFICATION OF PROJECT COMPLETION IN SUBSTANTIAL COMPLIANCE AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE FEMA APPROVED PLAN. THIS LOMR MUST BE ISSUED PRIOR TO RELEASE OF FINANCIAL GUARANTEES FOR LA CUEVA VILLAGE, UNIT 2.

#### B. CERTIFICATIO

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM JEFF MORTENSEN AND ASSOCIATES, INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND DRAINED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE DRB APPROVED PLAN DATED 03/15/2001 AND APPROVED BY THE DRB ON 4/25/2001. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR FINANCIAL GUARANTY RELEASE.

THE FOLLOWING IS A BRIEF DESCRIPTION OF THE VARIOUS PROJECT ELEMENTS:

#### 1) HOUSE PADS

HOUSE PAD ELEVATIONS WERE VERIFIED ON JULY 13, 2001 PRIOR TO THE COMMENCEMENT OF HOME CONSTRUCTION. ALL HOUSE PAD GRADES WERE FOUND TO BE WITHIN 0.1 FEET OF THE APPROVED PLAN ELEVATION.

#### 2) CURB AND GUTTE

THE ONSITE CURB AND GUTTER ELEVATIONS WERE VERIFIED ON SEPTEMBER 20, 2001. THE GREATEST DIFFERENCE IN ELEVATION FROM THE APPROVED PLAN IS 0.15 FEET. THE CURB AND GUTTER HAS BEEN GRADED AND DRAINED IN A MANNER CONSISTENT WITH THE DRB APPROVED PLAN, AND IN SUBSTANTIAL COMPLIANCE WITH THE WORK ORDER PLANS (CITY PROJECT # 572985).

#### 3) RETAINING W

A RETAINING WALL WAS REQUIRED ON THE DRB APPROVED PLAN TO FACILITATE SITE OF ALL NG. THE RETAINING WALL WAS DESIGNED BY THE WALL CONTRACTOR AND CONSTRUCTED UNDER SEPARATE PERMIT. THE RETAINING WALL WAS FOUND TO BE OF SUFFICIENT HEIGHT TO ACCOMMODATE THE DRB APPROVED DESIGN GRADES. THE LIMITS OF RETAINING WALL CONSTRUCTION AS—CONSTRUCTED ARE DEPICTED ON THE GRADING PLAN (SHEET 2).

#### 4) LOT GRADES

A) LOT GRADES

ROUGH GRADES WERE VERIFIED ON SEPTEMBER 22, 2001 AND OCTOBER 19, 2001, AND FOUND

TO BE IN SUBSTANTIAL COMPLIANCE AND IN ACCORDANCE WITH THE DESIGN INTENT OF

THE APPROVED PLAN. THE GREATEST DIFFERENCE IN ELEVATION FROM THE APPROVED

PLAN IS 1.3 FEET. FINISHED GRADING FOR ALL LOTS SHALL BE SHALL BE COMPLETED UPON

DEVELOPMENT OF EACH LOT BY THEIR RESPECTIVE BUILDERS. THE FINISHED LOT

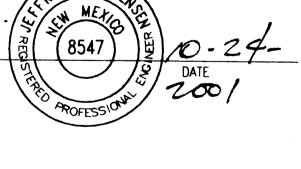
ELEVATIONS AND SLOPES MUST CONFORM WITH TO THE APPROVED PLAN.

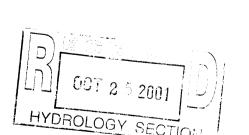
#### 5) LOT DEVELOPMENT THIS PLAN ALSO IDENTIFIES THE LOTS UPON WHICH HOUSES HAVE BEEN COMPLETED OR

THIS PLAN ALSO IDENTIFIES THE LOTS UPON WHICH HOUSES HAVE BEEN COMPLETED OR ARE UNDER CONSTRUCTION AT THE TIME OF THIS CERTIFICATION. THE LOTS ARE SHOWN BY A CIRCLED "H".

THIS CERTIFICATION EVALUATES GRADING AND DRAINAGE ISSUES ONLY AND DOES NOT ADDRESS COMPLIANCE WITH A.D.A. GUIDELINES. THE RECORD INFORMATION IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF GRADING AND DRAINAGE ASPECTS OF THIS PLAN. THOSE RELYING ON THIS PLAN ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY C. MORFENSEN, NMPE 8547



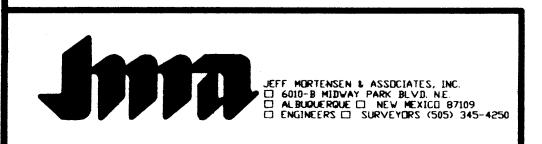


 WORK ORDER NO.
 572985

 DRB NO.
 1001160

 HYDROLOGY FILE NO.
 C19/D11B

		NO.	DATE	BY	REVISIONS	JUB MU.		
DESIGNED BY	M.D.S.		10/01	MDS	ENGINEER'S DRAINAGE CERTIFICATION		2000.09	93.6
DRAVN BY -	S.G.H.					DATE	10-200	1
DENAM BI							10-500	1
APPROVED BY	J.G.M.					SHEET	1 OF	2
							1	3



ACCORDANCE WITH THE STRUCTURAL AND GEOTECHNICAL SPECIFICATIONS.

19. THE PAD ELEVATIONS SHOWN HEREON ARE FOR ROUGH GRADING PURPOSES.

23. YARD (GARDEN) WALLS SHALL BE CONSTRUCTED BY THE LOT OWNER OR ITS BUILDER.

25. MAXIMUM UNPROTECTED SLOPES SHALL BE 3:1; MINIMUM SLOPES SHALL BE 1%.

24. THE FINISHED GRADING OF EACH LOT SHALL BE ACCOMPLISHED BY THE LOT OWNER OR ITS BUILDER.

26. ROUGH GRADING TOLERANCES SHALL BE ±0.1 FEET FOR HOUSE PADS AND ±0.33 FEET FOR ALL OTHER GRADING.

BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

21. CROSS-LOT DRAINAGE WILL NOT BE PERMITTED.

GUARANTY RELEASE.

AND/OR DESIGN OF A COMPETENT DESIGN PROFESSIONAL.

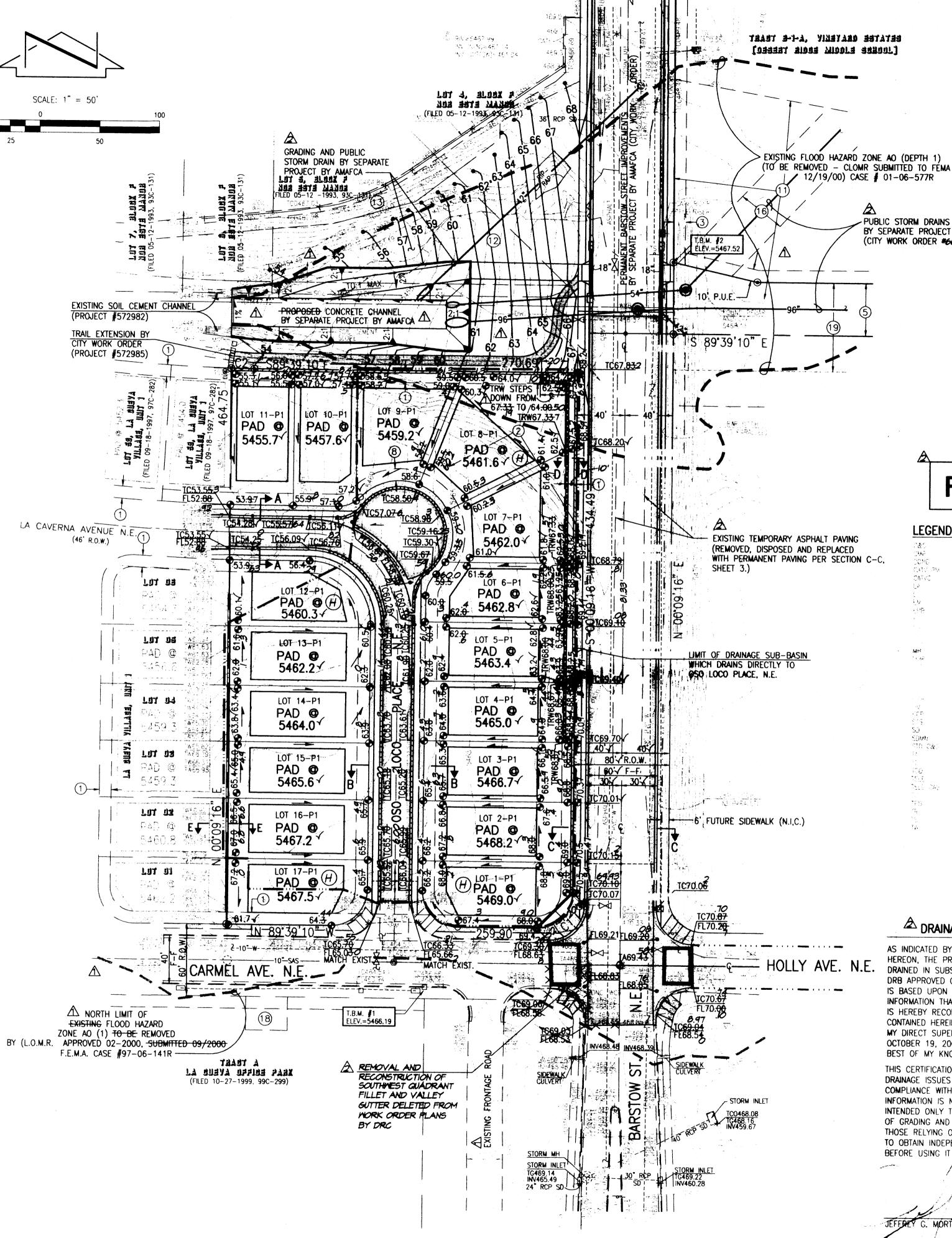
ALL DEVELOPED RUNOFF SHALL BE DIRECTED TO THE STREETS.

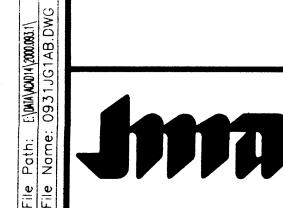
MORTENSEN & ASSOCIATES, INC

010-B MIDWAY PARK BLVD N.E. NLBUQUERQUE □ NEW MEXICO 87109 NGINEERS □ SURVEYORS (505) 345-4250

: 505 345-4254 🗆 Email: jmainc@swcp.com

# TO A MINIMUM OF 95% ASTM D-1557. ALL EARTHWORK FOR BUILDING PADS SHALL BE PERFORMED IN 18. ALL EXISTING UTILITIES ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO GRADE AND SHALL 20. FINISHED FLOOR ELEVATIONS MAY VARY FROM THE PAD ELEVATIONS AND WILL BE DETERMINED AS A FUNCTION OF INDIVIDUAL HOUSE DESIGN. FINISHED FLOOR ELEVATIONS SHOULD BE ESTABLISHED AT A MINIMUM OF SIX INCHES ABOVE PAD ELEVATIONS; DEVIATIONS FROM THESE GUIDELINES MUST BE BASED ON THE RECOMMENDATIONS 22. RETAINING WALLS SHALL BE CONSTRUCTED BY THE DEVELOPER PRIOR TO ENGINEER'S CERTIFICATION FOR FINANCIAL





APPROVED FOR ROUGH GRADING

ORIGINAL MYLAR NOT SIGNED; HYDROLOGY APPROVAL LETTER WAS MRITTEN 04/05/2001 CITY HYDROLOGY

GRADING PLAN AND GENERAL NOTES, GRADING AND DRAINAGE REPORT LOTS 1-17, LA CUEVA VILLAGE, UNIT 2

03-15-2001 DESIGNED BY G.M. 2000.093.6 103/01 G.M. REVISE OFFSITE IMPROVEMENTS BY A.M.A.F.C.A. TO MATCH CURRENT PLANS, REVISE REAR YARD GRADES LOTS 4, 5, 7, 8 AND 9, AND 10-2001 RETAINING WALL LIMITS ON LOT 8, ADD SECTION E-E, REMOVE FLOODPLAIN REMOVED BY LOMR APPROVED BY J.G.M. A 10/01 M.D.S. ENGINEER'S DRAINAGE CERTIFICATION

KEYED EASEMENT AND BOUNDARY NOTES

10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 97C-282

10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 96C-491

PORTION OF 10' PUBLIC UTILITY EASEMENT GRANTED BY

(TO BE VACATED)

PLATTING ACTION

PUBLIC STORM DRAINS

BY SEPARATE PROJECT BY AMAFCA

**LEGEND** 

CURB AND GUTTER

EDGE OF ASPHALT

ELECTRIC CABINE

ELECTRIC METER

FLOWLINE

FIBER OPTIC

ELECTRIC PULLBOX

METAL GUARD POST

METAL LIGHT POLE

NATURAL GRADE

SANITARY SEWER

TOP OF ASPHALT

TOP OF CONCRETE

TELEPHONE CABINET

TOP OF CURB

TOP OF GRATE

TRAFFIC SIGN

TOP OF WALL

A DRAINAGE CERTIFICATION

AS INDICATED BY THE RECORD INFORMATION SHOWN

HEREON, THE PROJECT HAS BEEN GRADED AND

DRAINED IN SUBSTANTIAL COMPLIANCE WITH THE

DRB APPROVED GRADING AND DRAINAGE PLAN, IT

INFORMATION THAT RELEASE OF FINANCIAL GUARANTY IS HEREBY RECOMMENDED. THE RECORD INFORMATION

CONTAINED HEREIN HAS BEEN OBTAINED BY ME OR UNDER

MY DIRECT SUPERVISION, ON SEPTEMBER 22, 2001, AND

OCTOBER 19, 2001, AND IS TRUE AND CORRECT TO THE

IS BASED UPON THE EVALUATION OF RECORD

BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION EVALUATES GRADING AND

BEFORE USING IT FOR ANY OTHER PURPOSE.

DRAINAGE ISSUES ONLY AND DOES NOT ADDRESS

COMPLIANCE WITH A.D.A. GUIDELINES. THE RECORD

INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE

INFORMATION IS NOT NECESSARILY COMPLETE AND

OF GRADING AND DRAINAGE ASPECTS OF THIS PLAN. THOSE RELYING ON THIS RECORD PLAN ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY

TRAFFIC PULLBOX

TELEPHONE RISER

STORM DRAIN MANHOLE STANDARD CURB AND GUTTER

STORM DRAIN

PAINT MARK

METAL SIGN (GENERAL

REINFORCED CONCRETE PIPE

OVERHEAD ELECTRIC (NO. OF LINES)

OVERHEAD TELEPHONE (NO. OF LINES)

CORRUGATED METAL PIPE

CABLE TELEVISION CABINET

CABLE TELEVISION PAINT MAR

(CITY WORK ORDER #660281)

PLAT 96C-491. (TO BE VACATED)

PROPOSED 10' PUBLIC UTILITY EASEMENT

BOOK MS817A, PAGE 265, DOC. #89104916

(13) A.M.A.F.C.A. DRAINAGE EASEMENT GRANTED BY PLAT 93C-131

(19) 60' RIGHT-OF-WAY OF CARMEL AVENUE N.E. (TO BE VACATED)

(16) PUBLIC STORM DRAINAGE EASEMENT TO BE GRANTED BY SEPARATE

(18) 35'x28' PUBLIC WATER METER EASEMENT GRANTED BY PLAT 99C-299

BOUNDARY TABLES

C2 1238.00' 19.31' S 89'12'22" E 19.31' 00'53'38"

THIS IS NOT A BOUNDARY SURVEY. APPARENT

PURPOSES ONLY. TOPOGRAPHIC INFORMATION

PERFORMED BY JEFF MORTENSEN AND ASSOC.

**光探報源 郑俊 张 张 郑 郑 张 郑 郑** 郑 郑 郑 张

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TM 5474.86

DATED 11/03/2000.

RECORD

PROPERTY CORNERS SHOWN FOR INFORMATIONAL

SHOWN HEREON IS FROM A TOPOGRAPHIC SURVEY

RADIUS LENGTH CHORD BEARING CHORD DELTA

30.00' 47.22' N 45°15'03" E 42.50' 90°11'34"

DRAWING

UNDERGROUND

WHEELCHAIR RAMP

WOOD POWER POLE

WATER VALVE BOX

EXISTING CONTOUR

EXISTING SPOT ELEVATION

PROPOSED CONTOUR

DIRECTION OF FLOW

EXISTING FLOODPLAIN

PROPOSED ASPHALT

PROPOSED STANDARD CURB AND GUTTER

(ROLL TYPE)

HIGH POINT

PROPOSED PERIMETER CMU WALL

PROPOSED MOUNTABLE CURB AND GUTTER

(CAN RETAIN 18" MAX.)

DRAINAGE SUB-BASIN

RECORD ELEVATION

RECORD ELEVATION

12-18-2000

RECORD PERIMETER WALL

HOME UNDER CONSTRUCTION

AT TIME OF CERTIFICATION

RECORD INFORMATION=AS DESIGNED

PROPOSED CONCRETE

PROPOSED STORM INLET

PROPOSED STORM DRAIN MANHOLE

EXISTING RETAINING WALL

PROPOSED RETAINING WALL

WATER METER

CROSSING

UNDERGROUND TELEPHONE

UNDERGROUND CABLE TELEVISION

PROPOSED SPOT ELEVATION

BY SEPARATE PLATTING ACTION

A.M.A.F.C.A. DRAINAGE EASEMENT GRANTED BY PLAT 97C-282,

44' PUBLIC STORM DRAINAGE RIGHT-OF-WAY TO BE DEDICATED

100-YEAR FLOOD PLAIN DEDICATION PER PLAT C38-184, (TO BE VACATED)

FLOOD PLAIN EASEMENT GRANTED BY DOCUMENT FILED 12-11-1989,

