

May 17, 2006

Mr. Mark Goodwin, PE
MARK GOODWIN & ASSOCIATES
P.O. Box 90606
Albuquerque, NM 87199

Re: MONTANO RETAIL

6001 Winter Haven Road NW

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 09/28/2005 (E-12/D3E)

Certification dated 05/11/2006

P.O. Box 1293

Dear Mark,

Based upon the information provided in your submittal received 05/11/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

www.cabq.gov

Sincerely, Orlene V. Portello

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

Development and Building Services

C:

CO Clerk

File



September 20, 2005

John M. MacKenzie, PE. Mark Goodwin & Associates, PA. PO Box 90606 Albuquerque, NM 87199

Re: Montano Retail Lands of Joel P. Taylor Tracts 5-A1-B1 & 5-A2-A1, Grading and Drainage Plan

Engineer's Stamp dated 9-15-05 (E12-D3E)

Dear Mr. MacKenzie,

Based upon the information provided in your submittal dated 9-14-05, the P.O. Box 1293 above referenced plan is approved as Amended.

Prior to release of the Certificate Of Occupancy the following item needs to be addressed.

Albuquerque

Provide an Engineers Certification of the Grading Plan per the DPM checklist.

Sincerely

New Mexico 87103

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

www.cabq.gov

If you have any questions, you can contact me at 924-3695.

Rudy E. Rael Associate Engineer

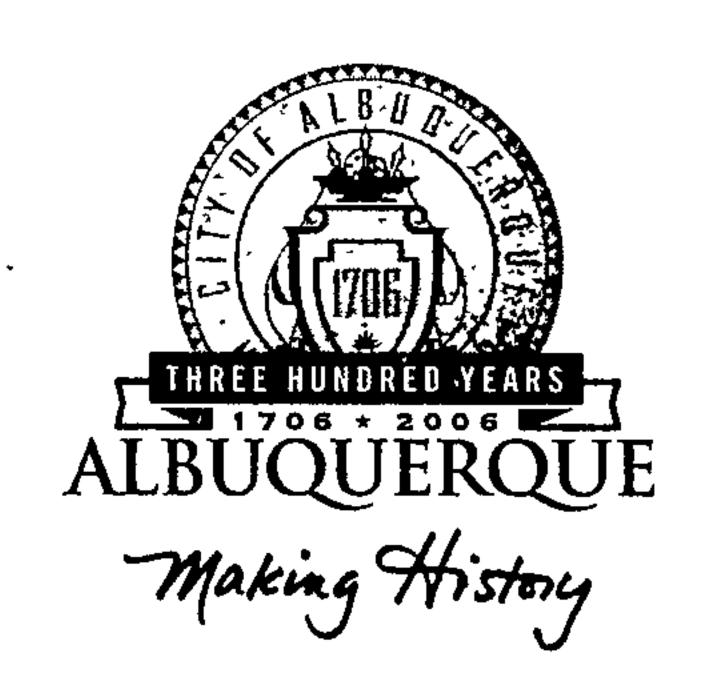
Planning Department.

Development and Building Services

BUT

C: Chuck Carusso DMD

CC: file



February 4, 2005

D. Mark Goodwin, PE Mark Goodwin & Associates P.O. 90606 Albuquerque, NM 87199

Re: Montano Retail Drainage Report

Engineer's Stamp dated 1-27-05 (E12/D3E)

Dear Mr. Goodwin,

Based upon the information provided in your submittal dated 1-28-05, the above referenced report is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

The existing pond is in a public drainage easement and must be vacated and rededicated to fit the new configuration. Plus, the new pond must be incorporated into your lot or a three-party maintenance agreement must be executed. This must be done prior to C.O.

Albuquerque

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

New Mexico 87103

If you have any questions, you can contact me at 924-3986.

www.cabq.gov

Bradley L. Bingham, PE

Principal Engineer, Planning Dept Development and Building Services

Sincerely, Bradly L. Buyham

C: file

DRAINAGE REPORT for Montaño Retail

Prepared for

Maestas & Ward Steve Maestas 7620 Jefferson NE Albuquerque, NM 87109 (505) 878-0001

Prepared by

Mark Goodwin & Associates, PA P.O. Box 90606 Albuquerque, NM 87199

November 2004



PURPOSE

This report has been prepared in support of the development of a 3.42 acre, currently undeveloped, parcel located at the northwest corner of Montaño Road and Winter Haven Road on Albuquerque's west side. The site is a part of the Montaño Plaza Shopping Center, and as such, this development is proposed to be similar retail facilities.

EXISTING CONDITIONS

In the existing state, an approximate 1.5 ac-ft detention basin is located on this site. With vertical concrete sides, a portion of the pond extends along the southern boundary, while along the east side of the site, and additional extension of the pond with earthen sides parallels Winter Haven Road. Flows from the pond discharge into a 4' \times 6' CBC extending from Montaño Road to the site at its southwest corner. The controlled outflow from the ponds to the box culvert is Q = 25.48 cfs (Appendix 1: Summary from 1987 Chavez-Grieves drainage report for Montaño Plaza Addition).

A 2'x 4' CBC storm drain system with grated openings currently traverses this site from the north to south where it outfalls into the detention pond described earlier. From earlier calculations presented in the Chavez-Grieves report, and from the Walgreens @ Coors & Montaño Drainage Report, 1999 Mark Goodwin & Associates, 36.09 cfs (100-yr, 6-hr) enters the site within the described system from the north. An additional 9.53 cfs is added to this system from lateral pipes extending west into the Walgreen's parking lot, and from surface flows originating from this site.

An estimated 18.38 cfs (100-yr, 6-hr) enters the pond from Winter Haven Road through an approximate 12' long grated drop inlet situated along the west curb line in the roadway.

The described pond on this site was originally designed to be a combination detention / sedimentation basin. At the time the pond was constructed, much of the upstream drainage basin was still undeveloped. Sediment laden storm waters would enter the pond, which was over-sized with a near flat earthen bottom. With the reduced velocity through the pond, sediments would settle to the bottom prior to the flood waters entering the 4' x 6' CBC outfall line which increases in size to a 10' x 6' CBC prior to discharging into the Rio Grande River.

PROPOSED CONDITIONS

Since the existing pond, with its dual reaches, encumbers a significant portion of this site, it is proposed that with the development of this site, the pond will be relocated to an undeveloped parcel, currently in the process of being purchased, immediately south of this site, adjacent to Montaño Road. As shown on the Grading & Drainage Plan, a landscaped, earthen sided pond with 3:1 maximum side slopes is planned along Montaño Road, and a 5.5' concrete flood wall separates the pond from this site.

The Grading & Drainage Plan also shows that in developing this site, the existing 2' x 4' CBC carrying a total of 45.62 cfs (100-yr, 6-hr) will remain in place. The southern portion will be re-aligned to enter the new pond on a more tangential alignment. All but the most northerly onsite grated opening will be removed and replaced with traffic rated covers. From the remaining grated inlet, south, the 2' x 4' CBC will be covered and paved over.

Developed Drainage basin **B-1**, 1.85 acres, included the southern ½ of this site. Storm flows within **B-1** will sheet flow with the paved areas to concrete valley gutters. **B-1** flows, 7.30 cfs, will be routed to a concrete lined rundown along the north side of the new pond.

Storm flows within basin **B-2**, 6.19 cfs, will likewise sheet flow to concrete valley gutters that will route the flows to the remaining onsite grated inlet near the northwest entrance to the site. The onsite and offsite flows within the existing 2' x 4' CBC will discharge into the new pond at its northwest quadrant.

Storm flows collected from the Winter Haven Road right-of-way will continue to be collected in the existing drop inlet along its west curb line. The drop inlet will be modified to discharge the accumulated flows to a new 24" RCP storm drain which will extend south along the sites east boundary. The new 24" storm drain will connect to the existing 4' x 6' CBS at the southeast corner of the site. SUMMARY The drainage management plan for the Montaño Retail site, as presented in this report, allows for the development of this long vacant parcel in a manner which will ensure that there are no adverse impacts downstream of the site.

D. MARK GOODWIN & ASSOCIATES

```
1997.02d
             RUN DATE (MON/DAY/YR) = 10/08/2004
             START TIME (HR:MIN:SEC) = 10:22:25
                                              USER NO. = AHYMO-I-
9702dGoodwinM-AH
             INPUT FILE = C:\PROGRA~1\AHYMO 97\MONTAN~1.DAT
     START
                                TIME=0.0
     ****
                                MONTANO RETAIL
     ****
                                CALCULATE & ROUTE STORM FLOWS
     ****
                                USE 100 YEAR 6 HOUR STORM EVENT
    ****
                                FILE: MONTANORETAIL.DAT 9/23/04 JSD
    ***************
    RAINFALL
                          TYPE=1 RAIN QUARTER=0.0 IN
                                RAIN ONE=1.90 IN RAIN SIX=2.25 IN RAIN DAY=
2.63 IN
                                DT = 0.03333 HR
                  COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
2 - PEAK AT 1.40 HR.
                          .033330 HOURS END TIME =
                  DT =
                                                           5.999400 HOURS
                                    .0036
                     .0000
                             .0018
                                            .0055
                                                   .0074
                                                           .0094
                                                                  .0114
                     .0134
                            .0155
                                    .0177
                                            .0199
                                                   .0222
                                                           .0245
                                                                  .0269
                     .0293
                            .0319
                                    .0345
                                            .0372
                                                   .0399
                                                           .0428
                                                                  .0458
                     .0489
                            .0521
                                    .0554
                                           .0589
                                                   .0625
                                                           .0663
                                                                  .0703
                                           .0888
                     .0745
                            .0789
                                    .0836
                                                   .0944
                                                           .1004
                                                                  .1133
                                                  .4515 .5973 .7788
                     .1421
                            .1865
                                    .2502
                                           .3372
                    1.0003
                           1.2059
                                   1.2918
                                          1.3643
                                                  1.4288
                                                          1.4874
                                                                 1.5414
                           1.6384
                                          1.7237
                    1.5916
                                   1.6823
                                                  1.7627
                                                          1.7995
                                                                 1.8344
                    1.8674 1.8987
                                  1.9284 1.9566 1.9834
                                                        1.9898
                                                                 1.9958
                                          2.0169
                            2.0068
                                  2.0120
                                                  2.0216
                                                          2.0262
                           2.0390
                    2.0349
                                   2.0430
                                          2.0469
                                                  2.0507
                                                          2.0543
                                                                 2.0579
                    2.0614
                           2.0648
                                   2.0681
                                          2.0713
                                                  2.0745
                                                         2.0776
                                                                2.0806
                    2.0836
                           2.0865
                                   2.0894
                                          2.0922
                                                  2.0949
                                                         2.0976 2.1003
                           2.1055
                    2.1029
                                   2.1080
                                          2.1105
                                                  2.1129
                                                         2.1153
                                                                 2.1177
                    2.1201
                           2.1224
                                   2.1247
                                          2.1269 2.1291 2.1313
                                                                2.1335
                           2.1377
                                   2.1398
                    2.1356
                                          2.1418
                                                  2.1439
                                                         2.1459
                                                                2.1478
                                                         2.1593
                    2.1498
                           2.1517
                                          2.1555
                                   2.1537
                                                  2.1574
                                                                 2.1611
                           2.1647
                                   2.1665
                    2.1629
                                          2.1683
                                                  2.1700
                                                         2.1718
                                                                 2.1735
                    2.1752
                           2.1769
                                   2.1785
                                          2.1802 2.1818
                                                                 2.1850
                                                        2.1834
                           2.1882
                                   2.1898
                                                  2.1929 2.1944
                    2.1866
                                          2.1914
                                                                 2.1959
                    2.1975
                           2.1990
                                   2.2004
                                          2.2019 2.2034
                                                        2.2048
                                                                2.2063
                    2.2077
                           2.2091
                                   2.2105
                                          2.2119
                                                  2.2133
                                                         2.2147
                                                                 2.2161
                                   2.2201
                    2.2174
                           2.2188
                                          2.2215
                                                  2.2228
                                                         2.2241
                                                                 2.2254
                    2.2267
                           2.2280
                                   2.2293
                                          2.2306
                                                  2.2318
                                                         2.2331
                                                                 2.2343
                    2.2356
                           2.2368
                                   2.2381
                                          2.2393
                                                 2.2405
                                                         2.2417
                                                                 2.2429
                                  2.2465 2.2476 2.2488
                    2.2441
                           2.2453
                                                         2.2500
    ******************
    ****
    *****FIRST LOOK AT EXISTING FLOW
    ****
    COMPUTE NM HYD
                          ID=1 HYD NO=101.0 AREA=0.0053 SQ MI
```

PER A=0 PER B=100 PER C=0 PER D=0

TP=0.1333 HR MASS RAINFALL=-1

- Version:

AHYMO PROGRAM (AHYMO 97) -

<u>M</u>

D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539 e-mail: dmg@swcp.com

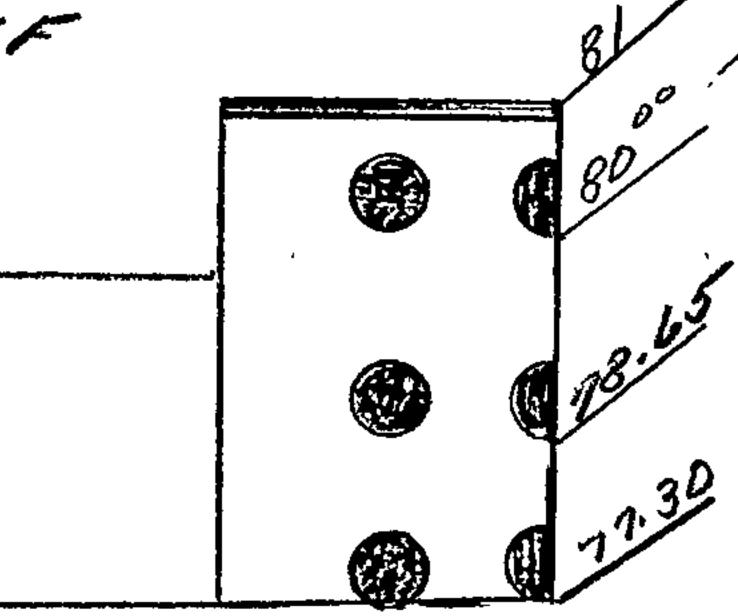
PROJECT Montal	o Rei	10/	
SUBJECT COLOS			
BY	DAT	E 11-8-09	/
CHECKED	DAT	E	
	SHEET	OF	

MAX. WATER SURFACE ELEV. = 81.00 MAX. OUTFLOW ALLOWED FROM POND = 25.48 CFS W/ 40% CLOG = 35.67 CFS

> Q = CA (26H) 1/2 C = . 4 (5HARP EDGE)

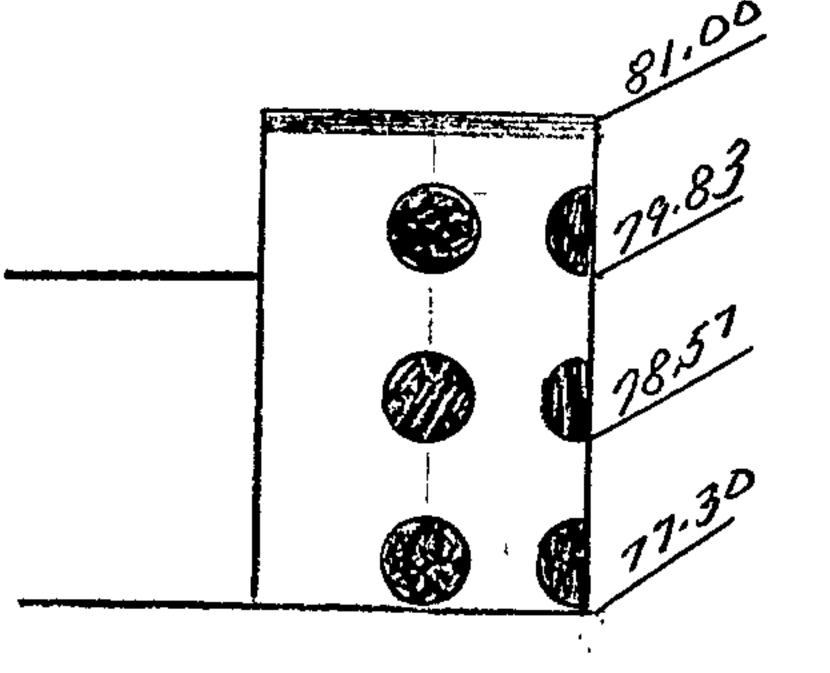
1. TRY (3) 6" HOLES PER ROW: A= 3.196=.5895F

ELEV.	QOUT (Cf5)
77.80	2
79.15	3.85-12=5.85-
80,50	5.07 + 3.85 +2 = 10.92
81.00	5.46 + 4.35 + 2.84 = 12.45



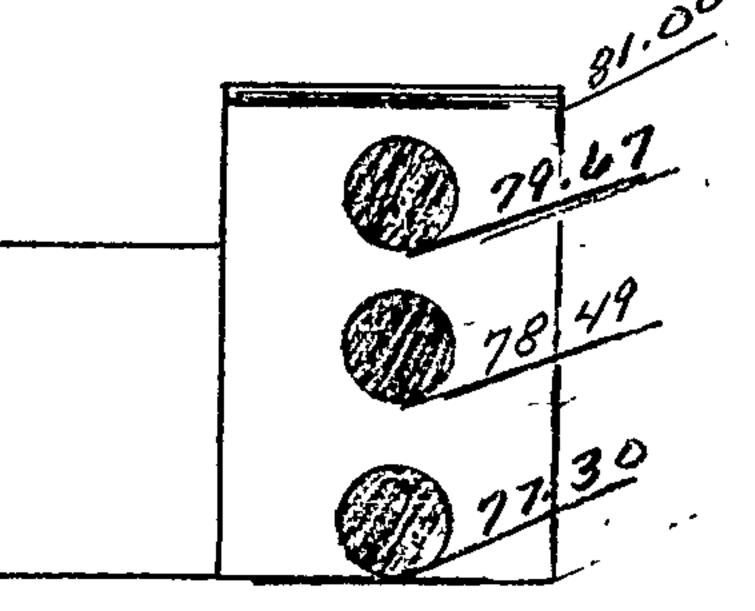
2. TRY (3) 8" HOLES PER ROW: A=13-349=1.055F

ELEV.	QOUT (Cf5)
77.97	4,14
79.24	7.04+ 4.14 = 11.18
80.50	9.04 + 7.04 + 4.14 = 20.22
81.00.	9.72 + 7.88 + 5.47 = 23.07



3. TRY (2) 10"HOLES PER ROW: A= 2-1.675F

ELEV.	QOUT (CFS)
78.13	7.34
79.32	11.43 + 7.34 = 18.77 CF5
80.50	14.38 + 11.43 + 7.34 = 33.15 CF5
67.00	15.47 + 12.74 + 9,27 = 37.48 CFS



. ISE (2) 10" HOLES PER ROW DESIGN ALLOWS FOR 32% Clogging Factor



D. Mark Goodwin & Associates, P.A. Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199 (505) 828-2200 FAX 797-9539

e-mail: dmg@swcp.com

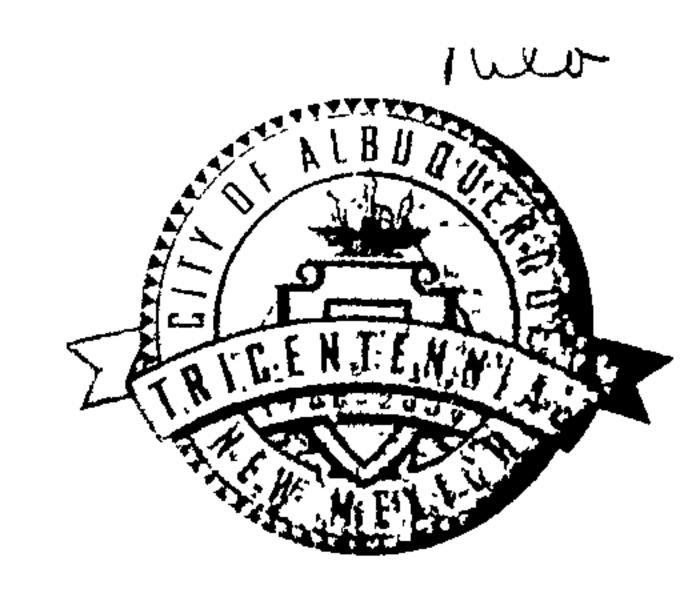
PROJECT Zoota	no Refail
SUBJECT Desina	100 60/15
BY_750	DATE 10-10-04
CHECKED	
	SHFFT OF

MONTANO RETAIL DETENTION POND SUMMARY

ELEV.	AREA (SE)	VOL (AC-FT)	EVOL (AC-FT)	Q00+ (C45)
76	8,028	0	0	0
78	10,635	. 43	. 43	6.73
80	13,200	.55		*28.37
91.0	14/135	.63	1.18	*37.48

* Using 32% Clogging Factor Qout = 37.48 - (.32.37.48)

W/ TOP OF WALL ELEV. @ 81.50, 0.5'
OF FREEBOARD IS AVAILABLE ABOVE
EMERGENCY SPILLWAY



Planning Department Transportation Development Services Section

May 31, 2006

Mr. George Rainhart, Registered Architect GEORGE RAINHART AND ASSOCIATES 2325 San Pedro Drive NE, STE 2B Albuquerque, NM 87110

Re: Certification Submittal for Final Building Certificate of Occupancy for

MONTANO RETAIL, [E-12 / D3E]
6001 Winter Haven Road NE
Architect's Stamp Dated 05/00/000

Architect's Stamp Dated 05/30/2006

P.O. Box 1293

Dear Mr. Rainhart:

The TCL / Letter of Certification submitted on May 31, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,

Albuquerque

www.cabq.gov

New Mexico 87103

Wilfred Gallegos, P.E.

Traffic Engineer

Development and Building Services

Planning Department

c: Engineer
Hydrology file
CO Clerk

TRAFFIC CERTIFICATION

I, GEORGE RANHAGE, NMPEO	R NMRA
THE FIRM GEORGE PRINHART &	SCOC HEREBY CERTIFY THAT
THE FIRM CEORGE PAINHAR & ATTHIS PROJECT HAS IS IN DESIGN SUBS	TANTIAL COMPLIANCE WITH AND IN
ACCORDANCE WITH THE DESIGN INTI	ENT OF THE APPROVED PLAN DATED
8.29.05 . THE RECORD INFO	
ORIGINAL DESIGN DOCUMENT HAS BI	EEN OBTAINED BY
LILLAM SUHTES OF THE FIRM GE	ORGE PANIART I FURTHER
CERTIFY THAT I HAVE PERSONALLY	VISITED THE PROJECT SITE ON
	DETERMINED BY VISUAL INSPECTION
THAT THE SURVEY DATA PROVIDED I	S REPRESENTATIVE OF ACTUAL SITE
CONDITIONS AND IS TRUE AND CORR	ECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF. THIS CERT	IFICATION IS SUBMITTED IN
SUPPORT OF A REQUEST FOR CECTI	FICX+E OF OCCUPANCY (C.O.)
THE RECORD INFORMATION PRESENT	ED HEREON IS NOT NECESSARILY
COMPLETE AND INTENDED ONLY TO YOUR THE TRANSPORT ASSESSMENT OF THE TRANSPORT OF THE PROPERTY O	
OF THE TRAFFIC ASPECTS OF THIS PRODUCED TO THE ADDRESS OF THE PRODUCED TO THE ADDRESS OF THE PRODUCED TO THE P	,
RECORD DOCUMENT ARE ADVISED TO	
VERIFICATION OF ITS ACCURACY BEF PURPOSE.	ORE USING IT FOR ANY OTHER
OF NEW	
GEORGE R. RAINHART	
NO. 580	
Con the second s	
	FNGINFER'S OR ARCHITECT'S STAND

5. 30.00 Date

Signature of Engineer or Architect

