

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Interim Director



Mayor Timothy M. Keller

August 2, 2019

Mark Goodwin, P.E.
Mark Goodwin & Associates
PO Box 90606
Albuquerque, NM 87199

RE: Swim Labs
8110 Holly Ave NE
Grading Plan Stamp Date: 7/19/19 & 7/24/19
Drainage Report Stamp Date: 7/25/19
Hydrology File: C20D082

Dear Mr. Goodwin:

PO Box 1293

Based on the submittal received on 7/25/19, the grading plan and drainage report cannot be approved until the following are corrected:

Albuquerque

1. Provide sections through the east boundary showing the proposed retaining wall, property lines, existing and proposed grades. In accordance with DPM Ch.22, section 5 part B, grading and wall construction near the property line may not endanger adjacent property or constrain its use.
2. Any private encroachment into neighboring private property will require written and signed permission from both property owners.
3. Include a detail where the retaining wall crosses over the private storm drain; ensure adequate clearance.
4. Provide written and signed permission from the owner of Tract B for the grading, paving and pond construction on their property. Unfortunately the cross-lot drainage easement does not grant the right to perform work on their property, only to discharge to it. (A permanent pond covenant will also be needed from this owner prior to CO; you may want to get it now)
5. Provide project datum. This needs to be on the plan where the benchmark is cited. The benchmark, existing survey, and proposed work all need to be converted to NAVD88 and NAD 83.
6. The proposed contours need to be cleaned up. For instance, the 54' contour cuts through the building (FF=55'), the 53' contour seems to be missing, and there appear to be different contours used for the ponds that don't tie-in to anything.

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7. Hydrology recommends against using the parking lot as dead storage for ponding water (Pond 2).
8. An SO-19 Permit will be required for the sidewalk culvert and should be included on the request. Please include the [standard SO-19](#) notes on the grading plan.
9. Discharge from this site needs to be limited to 0.93cfs per the approved master plan; do not rob capacity from the adjoiner (Pad 1).
10. Remove the open channel and extend the plate to the curb and 1' beyond back of sidewalk; also remove the non-standard plate detail and build per Std Dwg 2236.
11. Please provide the weir calculations, per DPM Chapter 22.3.A.1, for the sidewalk culvert. A coefficient of 2.7 is typically used for the weir equation $Q = CLH^{2/3}$. Be sure to size for future developed flow (1.16cfs).
12. Rainfall amounts need to be input as: 0.0, 1.82, 2.45, 2.86, per the Atlas 14 printout and the AHYMO user manual. Rainfall Type needs to be 2, for a 24-hr storm.
13. You don't need to bulk for sediment in a developed site.
14. The storage-discharge tables for all ponds need to reflect zero discharge until the outfall elevation is reached. The City does not accept infiltration as an outfall or credit it in pond sizing.
15. All pond outfalls need to be sized using the appropriate hydraulic calculations (weir, orifice equations) and those elevation-discharge tables and calculations need to be included.
16. Do you need Building Permit approval at this time? Or just Site-Plan and Grading/Paving?
17. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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Planning Department
Brennon Williams, Interim Director



Mayor Timothy M. Keller

If you have any questions, you can contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read 'D. Peterson', is written over a light gray horizontal line.

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

PO Box 1293

Albuquerque

NM 87103

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City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Swim Labs **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: Tract C Block 19 Plat of Tracts A,B,C,D,E and F, Block 19 Tract 3 Unit 3 North Albuquerque
Acres Cont. .7576 AC

City Address: 8110 Holly Ave, Albuquerque, NM 87122

Applicant: Mullen Heller Architecture **Contact:** Doug Heller

Address: 1718 Central Avenue

Phone#: 505-268-4144 **Fax#** _____ **E-mail:** doug@mullenheller.com

Other Contact: Mark Goodwin & Associates, PA **Contact:** Cory Pierce

Address: PO BOX 90606, Albuquerque, NM 87199

Phone#: 828.2200 **Fax#:** _____ **E-mail:** cory@goodwinengineers.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE X ADMIN SITE

IS THIS A RESUBMITTAL? X Yes _____ No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
☐ PAD CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE REPORT
☐ DRAINAGE MASTER PLAN
☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
☐ ELEVATION CERTIFICATE
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ STREET LIGHT LAYOUT
☐ OTHER (SPECIFY) _____
☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☒ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ FLOODPLAIN DEVELOPMENT PERMIT
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: July 25, 2019 **By:** Cory Pierce

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



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

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

*~ 2012 ACEC/NM Award Winner for Engineering Excellence ~
~ 2008 ACEC/NM Award Winner for Engineering Excellence ~
~ 2017 ENR Landscape/Urban Development Award of Merit ~
~ 2018 ENR Residential/Hospitality Award of Merit ~*

July 25, 2019

Dana Peterson, PE
City of Albuquerque
600 2nd Street SW
Albuquerque, NM 87102

**RE: Swim Labs
Grading and Drainage Plan
Hydrology File: C20D082**

Dear Mr. Peterson,

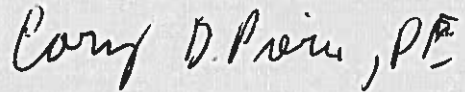
In response to correspondence dated July 10, 2019, please find enclosed submittal. Comments are addressed as follows:

1. Proposed contours, water blocks, and spot elevations are included to establish finish drainage of the site.
2. A water block is included at the north driveway.
3. AHYMO sub basins are delineated and additionally labeled with the AHYMO ID number.
4. The drainage plan addresses onsite and upstream offsite drainage. Offsite drainage is addressed with more references to the Furrs/ Paseo drainage report.
5. The Tract B storm water quality pond is revised to be the permanent pond to serve Tract B development.
6. There already exists an existing blanket easement for ingress, egress, drainage and pedestrian. Please see the enclosed ALTA Survey.
7. The project datum is NAD27 horizontal and NAVD29 vertical.
8. The complete, bound, AHYMO input and output files are provided with the NOAA atlas 14 rainfall data and the Furrs/ Paseo drainage report.
9. NOAA atlas 14 precipitation data was used with AHYMO-S4.
10. The outfall for the pond on Tract B is revised to go through a weir plate, into a sidewalk culvert, into Holly Avenue.
11. The site downstream capacity is referenced from the Furrs/ Paseo drainage report.
12. The Furrs/ Paseo drainage report is provided in the bound information.
13. There already exists an existing blanket easement for ingress, egress, drainage, and pedestrian. Please see the enclosed ALTA Survey.
14. The total area of disturbance is estimated and delineated on the plan to be about 0.80 AC.

Please review and approve the submittal for the requested permits.

Sincerely,

MARK GOODWIN & ASSOCIATES, PA

A handwritten signature in black ink that reads "Cory D. Pierce, PE". The signature is written in a cursive, flowing style.

Cory D. Pierce, PE
Staff Engineer

Enclosures:

- Revised Grading and Drainage Plan
- Bound AHYMO information with Furr's/ Paseo del Norte drainage report
- Boundary Survey and ALTA/ NSPS Land Title Survey for Tracts B and C

**Ventura Swim Labs
AHYMO ANALYSIS
COA Hydrology File: C20D082**

Prepared For:

Mullen Heller Architecture
1718 Central Avenue, SW, Ste D
Albuquerque, NM 87104
(505) 268-4144

Prepared By:

Mark Goodwin & Associates, PA
PO BOX 90606
Albuquerque, NM 87199
(505) 828-2200



Table of Contents

Hydrology Comment Letter dated July 10, 2019

Zone Atlas 14 Location Rainfall Data

AHYMO Input

AHYMO Summary

AHYMO Output

2000 Furrs/ Paseo Del Norte File

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Acting Director



Mayor Timothy M. Keller

July 10, 2019

Mark Goodwin, P.E.
Mark Goodwin & Associates
PO Box 90606
Albuquerque, NM 87199

RE: Swim Labs
8110 Holly Ave NE
Grading Plan Stamp Date: 6/24/19
Hydrology File: C20D082

Dear Mr. Goodwin:

Based on the submittal received on 6/25/19, the grading and drainage plan cannot be approved until the following are corrected:

1. Provide proposed contours and proposed spot elevation in sufficient density to ascertain the proposed drainage pattern of the site.
2. A waterblock is likely required near the north driveway to ensure flows are routed to the tract B pond.
3. Subbasins need to be delineated and modeled in AHYMO or with the 40-acres-or-less method and must include all onsite drainage and upstream offsite flows.
4. The drainage plan must address all onsite drainage and upstream offsite drainage, not just the parking lot and building.
5. Remove the temporary markings from the tract B stormwater quality pond; these features are permanent and will need to be protected with a drainage covenant, signed by the underlying property owner.
6. Provide written and signed permission from the owner of Tract B for the grading, paving and pond construction on their property.
7. Provide project datum.
8. The complete AHYMO input and output files need to be provided, not just the summary. If you provide these separately, they must be bound and stamped by the engineer.

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9. With AHYMO S4, be sure to use NOAA Atlas 14 precipitation depths in conjunction with the NOAA Atlas 14 distribution. Include the location map and tables obtained from the NOAA website. Using the NOAA Atlas 2 Precipitation depths (Found in the DPM), with the NOAA Atlas 14 Distributions results in an over-prediction of peak runoff (Q_{100}). See [AHYMO AppNote-01](#), and the Hydrology website for more information regarding this.
10. The outfall for pond B is unclear. The AHYMO run seems to indicate a continuous outflow, but the obvious outfall is the drive entrance that has a crest elevation at 54.12'. The City does not accept infiltration as an outfall or credit it in pond sizing as pond bottoms generally silt-in and reduce the infiltration rate to nearly nothing.
11. The site must demonstrate adequate downstream capacity per § 14-5-2-12(G) of the Albuquerque Code of Ordinances.
12. Provide the Furr's Paseo del Norte drainage report and Hydrology approval letter. This report is missing in our database and needs to be recovered if it is to be used as the basis for this development.
13. Provide a cross lot drainage easement (paper or Plat) between the two tracts.
14. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

If you have any questions, you can contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

PO Box 1293

Albuquerque

NM 87103

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NOAA Atlas 14, Volume 1, Version 5
 Location name: Albuquerque, New Mexico,
 USA*
 Latitude: 35.1758°, Longitude: -106.5411°
 Elevation: 5556.87 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

PF tabular

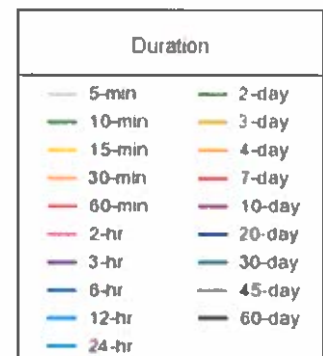
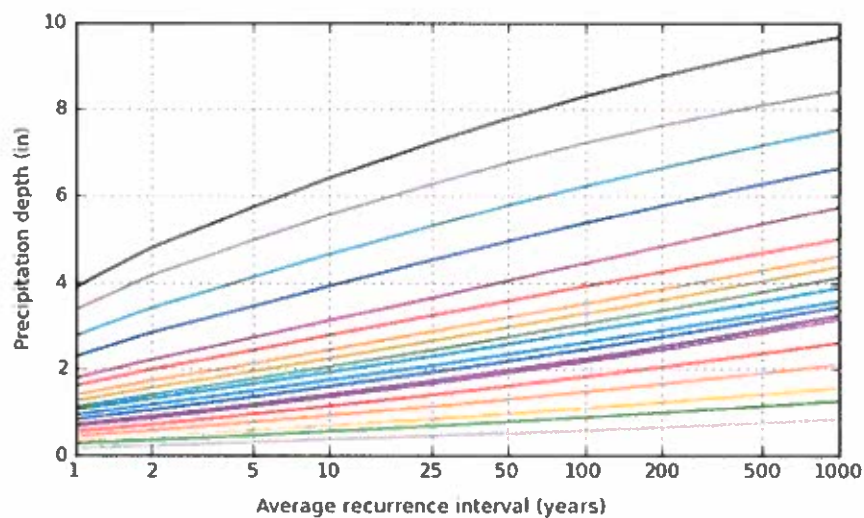
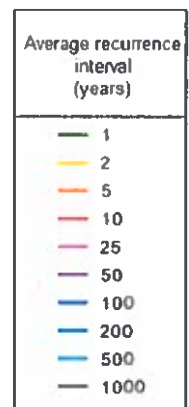
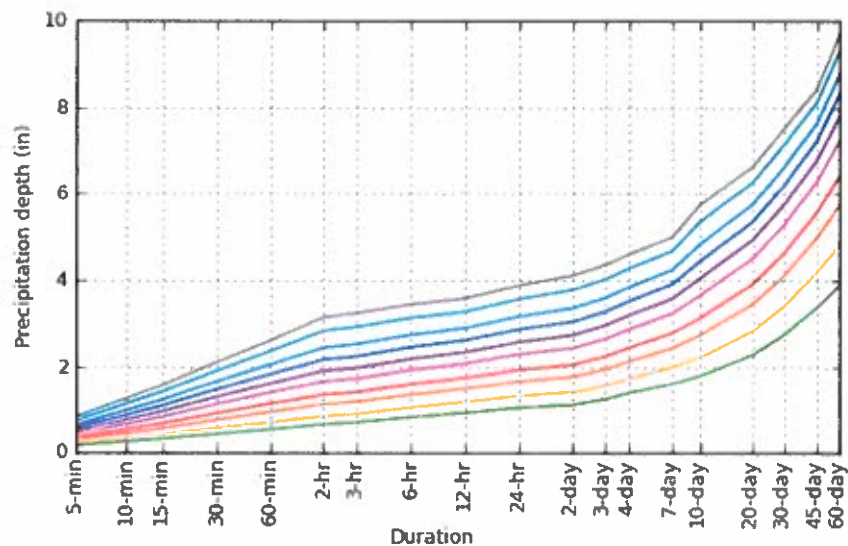
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence Interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.174 (0.146-0.207)	0.225 (0.188-0.268)	0.302 (0.253-0.360)	0.362 (0.302-0.430)	0.445 (0.369-0.528)	0.510 (0.421-0.605)	0.579 (0.474-0.685)	0.651 (0.530-0.769)	0.748 (0.604-0.886)	0.827 (0.664-0.978)
10-min	0.264 (0.222-0.314)	0.342 (0.287-0.407)	0.460 (0.385-0.547)	0.551 (0.459-0.654)	0.677 (0.561-0.803)	0.776 (0.641-0.920)	0.881 (0.721-1.04)	0.990 (0.806-1.17)	1.14 (0.920-1.35)	1.26 (1.01-1.49)
15-min	0.327 (0.275-0.390)	0.424 (0.355-0.505)	0.570 (0.477-0.678)	0.683 (0.569-0.811)	0.839 (0.696-0.995)	0.962 (0.794-1.14)	1.09 (0.894-1.29)	1.23 (0.999-1.45)	1.41 (1.14-1.67)	1.56 (1.25-1.85)
30-min	0.440 (0.371-0.525)	0.571 (0.478-0.680)	0.767 (0.642-0.914)	0.920 (0.766-1.09)	1.13 (0.937-1.34)	1.30 (1.07-1.54)	1.47 (1.20-1.74)	1.65 (1.35-1.96)	1.90 (1.54-2.25)	2.10 (1.69-2.48)
60-min	0.545 (0.459-0.649)	0.706 (0.591-0.842)	0.950 (0.795-1.13)	1.14 (0.949-1.35)	1.40 (1.16-1.66)	1.60 (1.32-1.90)	1.82 (1.49-2.15)	2.05 (1.67-2.42)	2.35 (1.90-2.79)	2.60 (2.09-3.08)
2-hr	0.663 (0.541-0.835)	0.850 (0.693-1.07)	1.13 (0.917-1.42)	1.35 (1.09-1.68)	1.65 (1.33-2.06)	1.90 (1.52-2.37)	2.16 (1.72-2.69)	2.44 (1.93-3.02)	2.82 (2.21-3.50)	3.14 (2.43-3.89)
3-hr	0.708 (0.582-0.884)	0.900 (0.737-1.12)	1.18 (0.970-1.47)	1.41 (1.15-1.74)	1.72 (1.39-2.13)	1.97 (1.59-2.44)	2.23 (1.79-2.76)	2.52 (2.00-3.11)	2.91 (2.29-3.59)	3.23 (2.53-3.99)
6-hr	0.830 (0.688-1.03)	1.05 (0.871-1.30)	1.35 (1.12-1.67)	1.59 (1.32-1.96)	1.92 (1.58-2.37)	2.18 (1.78-2.68)	2.45 (1.99-3.01)	2.73 (2.21-3.35)	3.12 (2.50-3.83)	3.44 (2.73-4.22)
12-hr	0.929 (0.788-1.11)	1.17 (0.992-1.40)	1.49 (1.26-1.77)	1.74 (1.46-2.07)	2.07 (1.74-2.46)	2.34 (1.95-2.77)	2.61 (2.17-3.09)	2.89 (2.38-3.42)	3.27 (2.67-3.88)	3.57 (2.90-4.25)
24-hr	1.05 (0.904-1.24)	1.32 (1.13-1.55)	1.65 (1.42-1.94)	1.92 (1.65-2.26)	2.29 (1.95-2.69)	2.57 (2.18-3.01)	2.86 (2.42-3.35)	3.16 (2.66-3.70)	3.56 (2.98-4.17)	3.88 (3.22-4.55)
2-day	1.11 (0.964-1.29)	1.40 (1.21-1.62)	1.76 (1.52-2.03)	2.05 (1.77-2.36)	2.43 (2.09-2.80)	2.73 (2.33-3.15)	3.04 (2.59-3.50)	3.35 (2.84-3.87)	3.78 (3.18-4.37)	4.11 (3.44-4.76)
3-day	1.25 (1.12-1.40)	1.56 (1.40-1.75)	1.94 (1.73-2.17)	2.24 (2.00-2.51)	2.65 (2.35-2.96)	2.96 (2.62-3.31)	3.28 (2.89-3.66)	3.60 (3.16-4.03)	4.03 (3.51-4.51)	4.36 (3.78-4.89)
4-day	1.39 (1.27-1.52)	1.73 (1.58-1.89)	2.12 (1.95-2.32)	2.44 (2.23-2.66)	2.86 (2.61-3.12)	3.19 (2.90-3.47)	3.51 (3.19-3.82)	3.84 (3.47-4.18)	4.27 (3.85-4.66)	4.60 (4.13-5.03)
7-day	1.60 (1.47-1.74)	1.99 (1.83-2.16)	2.43 (2.24-2.64)	2.77 (2.55-3.01)	3.23 (2.97-3.49)	3.57 (3.27-3.86)	3.91 (3.58-4.23)	4.24 (3.88-4.59)	4.68 (4.26-5.07)	5.00 (4.53-5.42)
10-day	1.78 (1.64-1.93)	2.21 (2.04-2.40)	2.72 (2.51-2.95)	3.11 (2.87-3.37)	3.64 (3.35-3.94)	4.04 (3.70-4.36)	4.44 (4.06-4.80)	4.83 (4.41-5.23)	5.35 (4.86-5.79)	5.73 (5.19-6.22)
20-day	2.28 (2.10-2.48)	2.83 (2.61-3.08)	3.45 (3.18-3.74)	3.91 (3.60-4.24)	4.51 (4.14-4.88)	4.94 (4.53-5.35)	5.37 (4.91-5.80)	5.77 (5.27-6.23)	6.27 (5.72-6.79)	6.64 (6.04-7.19)
30-day	2.75 (2.53-2.97)	3.41 (3.14-3.69)	4.12 (3.79-4.45)	4.64 (4.26-5.01)	5.30 (4.87-5.72)	5.77 (5.29-6.23)	6.22 (5.70-6.71)	6.64 (6.08-7.17)	7.16 (6.54-7.73)	7.53 (6.85-8.14)
45-day	3.36 (3.10-3.63)	4.18 (3.85-4.50)	4.97 (4.59-5.37)	5.56 (5.12-5.99)	6.27 (5.78-6.76)	6.76 (6.23-7.28)	7.21 (6.64-7.77)	7.62 (7.01-8.21)	8.10 (7.44-8.73)	8.41 (7.73-9.06)
60-day	3.87 (3.58-4.19)	4.80 (4.44-5.19)	5.74 (5.30-6.20)	6.41 (5.92-6.92)	7.22 (6.67-7.79)	7.78 (7.18-8.39)	8.30 (7.66-8.96)	8.76 (8.09-9.47)	9.31 (8.59-10.1)	9.67 (8.92-10.5)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).
 Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.
 Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves
 Latitude: 35.1758°, Longitude: -106.5411°



NOAA Atlas 14, Volume 1, Version 5

Created (GMT): Fri Jun 21 20 43 53 2019

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Maps & aerals

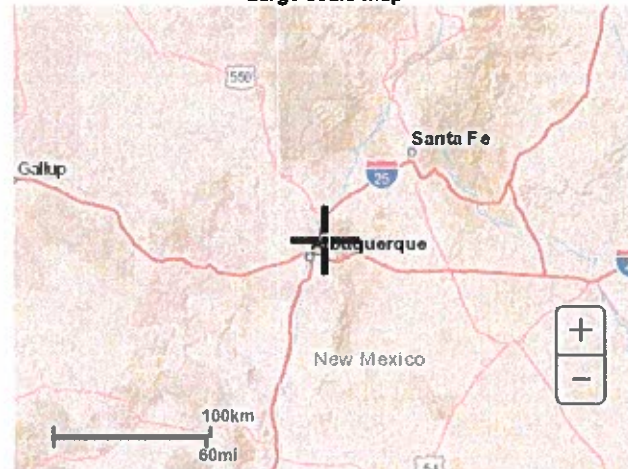
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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[National Oceanic and Atmospheric Administration](#)
[National Weather Service](#)
[National Water Center](#)
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

[Disclaimer](#)

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1998 (Department of Health 1999).

There is a growing emphasis on the importance of the public sector in the provision of health care, and the need to ensure that the public sector is able to meet the needs of the population. This has led to a number of initiatives, including the establishment of the National Health Service (NHS) in 1948, and the creation of the Department of Health in 1998. The NHS is a public sector organization that provides health care to the population of the UK. The Department of Health is a government department that is responsible for the health of the population of the UK.

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ahymo_SwimLabs_Pad2_TOPDETEN-C_IN

START 0.0 HOURS PC=0 PL=-1

LOCATION ALBUQUERQUE

*S SWIM LABS 19003

*S ONSITE PAD 2

*S By Cory Pierce

RAINFALL TYPE=1 0.0 1.48 2.11 2.52 DT=0.01

SEDIMENT BULK CODE=1 BULK FACTOR = 1.06

*S BASIN #2 (Pad #2_South Detention Pond)

COMPUTE NM HYD ID=2 HYD=202 AREA=0.00086 SQ MI

A B C D 30 0 0 70

TP=0.13333 MASSRAIN=-1

PRINT HYD ID=2 CODE=1

ROUTE RESERVOIR ID=4 HYD NO=POND.OT INFLOW=2 CODE=24

	OUTFLOW (CFS)	STORAGE(AF)	ELEV(FT)
0.01	0.0001		5553.73
0.07	.0028		5553.80
0.16	0.0063		5553.85
0.30	0.0116		5553.91
0.49	0.0194		5553.98
0.77	0.0312		5554.07
0.99	0.0402		5554.13
1.38	0.0484		5554.23

PRINT HYD ID=5 CODE 1

*S BASIN #1 (Pad #1_North Detention Pond)

COMPUTE NM HYD ID=1 HYD=203 AREA=0.00023 SQ MI

A B C D 15 0 0 85

TP=0.13333 MASSRAIN=-1

PRINT HYD ID=1 CODE=1

ROUTE RESERVOIR ID=5 HYD NO=POND.OT INFLOW=1 CODE=24

	OUTFLOW (CFS)	STORAGE(AF)	ELEV(FT)
0.01	0.0001		5548.75
0.03	0.0009		5548.86
0.08	0.0019		5548.97
0.14	0.0029		5549.09
0.22	0.0039		5549.20
0.30	0.0050		5549.31
0.40	0.0062		5549.42

PRINT HYD ID=5 CODE 1

FINISH

the 1990s, the number of people in the UK who are aged 65 and over has increased by 1.5 million, and the number of people aged 75 and over has increased by 1.1 million (Office of National Statistics 1999).

There is a growing awareness of the need to address the needs of older people in the community. The Department of Health (1999) has published a strategy for older people, which sets out the government's commitment to older people and the actions that will be taken to improve their lives. The strategy is based on the following principles: older people should be able to live independently, safely and comfortably; older people should be able to participate in the community; older people should be able to access the services and facilities they need; and older people should be able to live in their own homes. The strategy is being implemented through a number of measures, including: increasing the number of care homes; improving the quality of care in care homes; increasing the number of care workers; improving the training of care workers; and increasing the number of care workers who are trained in dementia care.

The strategy is also being implemented through a number of measures, including: increasing the number of care homes; improving the quality of care in care homes; increasing the number of care workers; improving the training of care workers; and increasing the number of care workers who are trained in dementia care. The strategy is being implemented through a number of measures, including: increasing the number of care homes; improving the quality of care in care homes; increasing the number of care workers; improving the training of care workers; and increasing the number of care workers who are trained in dementia care.

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*(s16.66H
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4)
INPUT FILE = 19\A19003 - Ventura Swim Labs\Drainage\ahymo_SwimLabs_Pad2_TOPDETEN-C_IN.txt USER NO.= M-GoodwinMMSiteA90075759
- Ver. S4.01a, Rel: 01a RUN DATE (MON/DAY/YR) =07/24/2019

COMMAND      HYDROGRAPH ID NO. FROM TO ID NO. AREA (SQ MI) PEAK DISCHARGE (CFS) RUNOFF VOLUME (AC-FT) RUNOFF (INCHES) TIME TO PEAK (HOURS) CFS PER ACRE NOTATION PAGE = 1

START
LOCATION
* S SWIM LABS 19003
* S ONSITE PAD 2
* S BY Cory Pierce
RAINFALL TYPE= 1 NOAA 14
SEDIMENT BULK
* S BASIN #2 (Pad #2 South Detention Pond)
  COMPUTE NM HYD 202.00 - 2 0.00086 1.69 0.069 1.51448 1.530 3.079 PER IMP= 70.00
  ROUTE RESERVOIR POND.OT 2 4 0.00086 0.70 0.097 2.12559 1.740 1.276 AC-FT= 0.028
* S BASIN #1 (Pad #1 North Detention Pond)
  COMPUTE NM HYD 203.00 - 1 0.00023 0.52 0.021 1.73940 1.530 3.519 PER IMP= 85.00
  ROUTE RESERVOIR POND.OT 1 5 0.00023 0.36 0.051 4.12119 1.640 2.433 AC-FT= 0.006
FINISH
*(s10H

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the 1990s, the number of people with a mental health problem has increased by 50% (Mental Health Foundation 2000).

There is a growing awareness of the need to address the needs of people with mental health problems, and the importance of the role of the community in this. The World Health Organization (WHO) has identified the need for a 'new paradigm' in mental health care, one that is based on the principles of recovery, self-help, and community support (WHO 1993). This paradigm is based on the idea that people with mental health problems can lead a full and meaningful life, and that they should be supported to do so. The new paradigm is based on the idea that people with mental health problems are not 'patients' but 'citizens' who have the right to participate in the decisions that affect their lives.

The new paradigm is based on the idea that people with mental health problems are not 'patients' but 'citizens' who have the right to participate in the decisions that affect their lives. This paradigm is based on the idea that people with mental health problems are not 'patients' but 'citizens' who have the right to participate in the decisions that affect their lives. This paradigm is based on the idea that people with mental health problems are not 'patients' but 'citizens' who have the right to participate in the decisions that affect their lives.

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*(s16.66H

 - Version: S4.01a - Rel: 01a
AHYMO PROGRAM (AHYMO-S4)
RUN DATE (MON/DAY/YR) = 07/24/2019
START TIME (HR:MIN:SEC) = 09:21:51
INPUT FILE = s\2019\A19003 - Ventura Swim Labs\Drainage\ahymo_SwimLabs_Pad2_TOPDETEN-C_IN.txt
USER NO. = M-Goodwin\NMSite\90075759

START 0.0 HOURS PC=0 PL=-1
LOCATION ALBUQUERQUE
City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.
Land Treatment Initial Abstr.(in) Unif. Infiltr.(in/hour)
A 0.65 1.67
B 0.50 1.25
C 0.35 0.83
D 0.10 0.04

*S SWIM LABS 19003
*S ONSITE PAD 2
*S By Cory Pierce
RAINFALL

TYPE=1	0.0	1.48	2.11	2.52	DT=0.01
6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1					
DT = 0.010000 HOURS	END TIME = 6.000000 HOURS				
0.0000	0.0008	0.0017	0.0025	0.0033	0.0042
0.0059	0.0067	0.0076	0.0085	0.0094	0.0103
0.0122	0.0131	0.0140	0.0150	0.0160	0.0170
0.0190	0.0201	0.0211	0.0221	0.0231	0.0243
0.0266	0.0277	0.0289	0.0300	0.0312	0.0324
0.0372	0.0399	0.0426	0.0453	0.0480	0.0506
0.0561	0.0591	0.0620	0.0650	0.0679	0.0709
0.0768	0.0798	0.0830	0.0861	0.0893	0.0925
0.0989	0.1020	0.1052	0.1085	0.1118	0.1151
0.1217	0.1250	0.1283	0.1316	0.1350	0.1385
0.1454	0.1488	0.1523	0.1557	0.1592	0.1626
0.1702	0.1739	0.1777	0.1815	0.1853	0.1891
0.1969	0.2011	0.2053	0.2095	0.2137	0.2179
0.2263	0.2305	0.2348	0.2391	0.2434	0.2476
0.2562	0.2605	0.2648	0.2705	0.2762	0.2820
0.2934	0.2992	0.3049	0.3107	0.3179	0.3259
0.3420	0.3500	0.3580	0.3661	0.3741	0.3835
0.4076	0.4196	0.4317	0.4437	0.4558	0.4678
0.5007	0.5215	0.5423	0.5631	0.5839	0.6047
0.6463	0.6902	0.7456	0.8010	0.8564	0.9118
1.0227	1.0781	1.1253	1.1560	1.1867	1.2174
1.2789	1.3096	1.3403	1.3710	1.3865	1.4019
1.4328	1.4482	1.4637	1.4791	1.4945	1.5062
1.5256	1.5353	1.5450	1.5548	1.5645	1.5742
1.5897	1.5964	1.6032	1.6099	1.6166	1.6234
1.6369	1.6418	1.6467	1.6517	1.6566	1.6615

1.6714	1.6763	1.6805	1.6842	1.6879	1.6917	1.6954
1.6991	1.7029	1.7066	1.7104	1.7144	1.7184	1.7224
1.7263	1.7303	1.7343	1.7383	1.7422	1.7459	1.7495
1.7531	1.7567	1.7603	1.7639	1.7675	1.7711	1.7743
1.7774	1.7805	1.7835	1.7866	1.7897	1.7927	1.7958
1.7988	1.8016	1.8045	1.8074	1.8102	1.8131	1.8160
1.8188	1.8217	1.8244	1.8272	1.8300	1.8327	1.8355
1.8383	1.8411	1.8438	1.8456	1.8468	1.8480	1.8493
1.8505	1.8517	1.8530	1.8542	1.8554	1.8566	1.8578
1.8590	1.8602	1.8614	1.8626	1.8638	1.8650	1.8661
1.8672	1.8683	1.8694	1.8705	1.8717	1.8728	1.8739
1.8750	1.8761	1.8772	1.8782	1.8793	1.8804	1.8815
1.8826	1.8836	1.8847	1.8857	1.8868	1.8878	1.8889
1.8899	1.8910	1.8921	1.8930	1.8940	1.8950	1.8960
1.8970	1.8980	1.8990	1.9000	1.9010	1.9019	1.9029
1.9039	1.9048	1.9058	1.9068	1.9077	1.9087	1.9096
1.9106	1.9115	1.9125	1.9134	1.9144	1.9153	1.9162
1.9171	1.9180	1.9189	1.9198	1.9207	1.9216	1.9225
1.9234	1.9243	1.9252	1.9260	1.9269	1.9278	1.9287
1.9295	1.9304	1.9313	1.9321	1.9330	1.9338	1.9347
1.9356	1.9364	1.9373	1.9381	1.9389	1.9398	1.9406
1.9414	1.9422	1.9430	1.9438	1.9447	1.9455	1.9463
1.9471	1.9479	1.9487	1.9495	1.9503	1.9511	1.9519
1.9526	1.9534	1.9542	1.9550	1.9558	1.9566	1.9573
1.9581	1.9589	1.9597	1.9604	1.9612	1.9620	1.9627
1.9635	1.9643	1.9650	1.9658	1.9665	1.9673	1.9680
1.9688	1.9695	1.9703	1.9710	1.9718	1.9725	1.9733
1.9740	1.9747	1.9755	1.9762	1.9769	1.9777	1.9784
1.9791	1.9798	1.9806	1.9813	1.9820	1.9827	1.9834
1.9842	1.9849	1.9856	1.9863	1.9870	1.9877	1.9884
1.9891	1.9898	1.9905	1.9912	1.9919	1.9926	1.9933
1.9940	1.9947	1.9954	1.9961	1.9968	1.9974	1.9981
1.9988	1.9995	2.0002	2.0009	2.0015	2.0022	2.0029
2.0036	2.0042	2.0049	2.0056	2.0062	2.0069	2.0076
2.0082	2.0089	2.0095	2.0102	2.0109	2.0115	2.0122
2.0128	2.0135	2.0141	2.0148	2.0154	2.0161	2.0167
2.0174	2.0180	2.0187	2.0193	2.0199	2.0206	2.0212
2.0219	2.0225	2.0231	2.0238	2.0244	2.0250	2.0256
2.0263	2.0269	2.0275	2.0282	2.0288	2.0294	2.0300
2.0306	2.0312	2.0319	2.0325	2.0331	2.0337	2.0343
2.0349	2.0355	2.0362	2.0368	2.0374	2.0380	2.0386
2.0392	2.0398	2.0404	2.0410	2.0416	2.0422	2.0428
2.0434	2.0440	2.0446	2.0451	2.0457	2.0463	2.0469
2.0475	2.0481	2.0487	2.0493	2.0498	2.0504	2.0510
2.0516	2.0522	2.0528	2.0533	2.0539	2.0545	2.0551
2.0556	2.0562	2.0568	2.0574	2.0579	2.0585	2.0591
2.0596	2.0602	2.0608	2.0613	2.0619	2.0624	2.0630
2.0636	2.0641	2.0647	2.0652	2.0658	2.0664	2.0669
2.0675	2.0680	2.0686	2.0691	2.0697	2.0702	2.0708
2.0713	2.0719	2.0724	2.0729	2.0735	2.0740	2.0746

2.0751 2.0757 2.0762 2.0767 2.0773 2.0778 2.0783
 2.0789 2.0794 2.0799 2.0805 2.0810 2.0815 2.0821
 2.0826 2.0831 2.0837 2.0842 2.0847 2.0852 2.0858
 2.0863 2.0868 2.0873 2.0878 2.0884 2.0889 2.0894
 2.0899 2.0904 2.0909 2.0915 2.0920 2.0925 2.0930
 2.0935 2.0940 2.0945 2.0950 2.0956 2.0961 2.0966
 2.0971 2.0976 2.0981 2.0986 2.0991 2.0996 2.1001
 2.1006 2.1011 2.1016 2.1021 2.1026 2.1031 2.1036
 2.1041 2.1046 2.1051 2.1056 2.1061 2.1066 2.1071
 2.1075 2.1080 2.1085 2.1090 2.1095 2.1100

SEDIMENT BULK CODE=1 BULK FACTOR = 1.06
 *S BASIN #2 (Pad #2_South Detention Pond)
 COMPUTE NM HYD ID=2 HYD=202 AREA=0.00086 SQ MI
 A B C D 30 0 0 70
 TP=0.13333 MASSRAIN=-1

K = 0.072665HR TP = 0.133330HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 2.3762 CFS UNIT VOLUME = 0.9947 B = 526.28 P60 = 1.4800
 AREA = 0.000602 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000

K = 0.173555HR TP = 0.133330HR K/TP RATIO = 1.301692 SHAPE CONSTANT, N = 2.752957
 UNIT PEAK = 0.50510 CFS UNIT VOLUME = 0.9692 B = 261.03 P60 = 1.4800
 AREA = 0.000258 SQ MI IA = 0.65000 INCHES INF = 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000

BULKING FACTOR APPLIED TO HYDROGRAPH. FACTOR = 1.06000 AT PEAK FLOW.

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 202.00

RUNOFF VOLUME = 1.51448 INCHES = 0.0695 ACRE-FEET
 PEAK DISCHARGE RATE = 1.69 CFS AT 1.530 HOURS BASIN AREA = 0.0009 SQ. MI.

ROUTE RESERVOIR	ID=4	HYD NO=	POND	OT	INFLOW=2	CODE=24	OUTFLOW (CFS)	STORAGE (AF)	ELEV (FT)
							0.01	0.0001	5553.73
							0.07	.0028	5553.80
							0.16	0.0063	5553.85
							0.30	0.0116	5553.91
							0.49	0.0194	5553.98
							0.77	0.0312	5554.07
							0.99	0.0402	5554.13
							1.38	0.0484	5554.23

* * *	TIME (HRS)	* * *	INFLOW (CFS)	* * *	ELEV (FEET)	* * *	VOLUME (AC-FT)	* * *	OUTFLOW (CFS)	* * *
	0.00		0.00		5553.72		0.000		0.00	
	0.24		0.00		5553.73		0.000		0.01	
	0.48		0.00		5553.73		0.000		0.01	
	0.72		0.06		5553.73		0.000		0.01	
	0.96		0.13		5553.77		0.002		0.04	
	1.20		0.22		5553.81		0.004		0.09	
	1.44		1.09		5553.89		0.010		0.25	
	1.68		0.95		5554.04		0.028		0.69	
	1.92		0.34		5554.03		0.026		0.64	
	2.16		0.19		5553.98		0.019		0.49	
	2.40		0.12		5553.93		0.014		0.36	
	2.64		0.05		5553.89		0.010		0.25	
	2.88		0.03		5553.85		0.006		0.16	
	3.12		0.02		5553.82		0.004		0.11	
	3.36		0.02		5553.80		0.003		0.07	
	3.60		0.02		5553.78		0.002		0.05	
	3.84		0.02		5553.77		0.001		0.04	
	4.08		0.02		5553.76		0.001		0.03	
	4.32		0.02		5553.75		0.001		0.03	
	4.56		0.02		5553.75		0.001		0.02	
	4.80		0.02		5553.74		0.001		0.02	
	5.04		0.02		5553.74		0.001		0.02	
	5.28		0.02		5553.74		0.001		0.02	
	5.52		0.02		5553.74		0.001		0.02	
	5.76		0.02		5553.74		0.001		0.02	
	6.00		0.02		5553.74		0.001		0.02	
	6.24		0.00		5553.74		0.000		0.02	
	6.48		0.00		5553.73		0.000		0.01	
	6.72		0.00		5553.73		0.000		0.01	
	6.96		0.00		5553.73		0.000		0.01	
	7.20		0.00		5553.73		0.000		0.01	
	7.44		0.00		5553.73		0.000		0.01	
	7.68		0.00		5553.73		0.000		0.01	
	7.92		0.00		5553.73		0.000		0.01	
	8.16		0.00		5553.73		0.000		0.01	
	8.40		0.00		5553.73		0.000		0.01	
	8.64		0.00		5553.73		0.000		0.01	
	8.88		0.00		5553.73		0.000		0.01	
	9.12		0.00		5553.73		0.000		0.01	
	9.36		0.00		5553.73		0.000		0.01	
	9.60		0.00		5553.73		0.000		0.01	
	9.84		0.00		5553.73		0.000		0.01	
	10.08		0.00		5553.73		0.000		0.01	
	10.32		0.00		5553.73		0.000		0.01	

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
10.56	0.00	5553.73	0.000	0.01
10.80	0.00	5553.73	0.000	0.01
11.04	0.00	5553.73	0.000	0.01
11.28	0.00	5553.73	0.000	0.01
11.52	0.00	5553.73	0.000	0.01
11.76	0.00	5553.73	0.000	0.01
12.00	0.00	5553.73	0.000	0.01
12.24	0.00	5553.73	0.000	0.01
12.48	0.00	5553.73	0.000	0.01
12.72	0.00	5553.73	0.000	0.01
12.96	0.00	5553.73	0.000	0.01
13.20	0.00	5553.73	0.000	0.01
13.44	0.00	5553.73	0.000	0.01
13.68	0.00	5553.73	0.000	0.01
13.92	0.00	5553.73	0.000	0.01
14.16	0.00	5553.73	0.000	0.01
14.40	0.00	5553.73	0.000	0.01
14.64	0.00	5553.73	0.000	0.01
14.88	0.00	5553.73	0.000	0.01
15.12	0.00	5553.73	0.000	0.01
15.36	0.00	5553.73	0.000	0.01
15.60	0.00	5553.73	0.000	0.01
15.84	0.00	5553.73	0.000	0.01
16.08	0.00	5553.73	0.000	0.01
16.32	0.00	5553.73	0.000	0.01
16.56	0.00	5553.73	0.000	0.01
16.80	0.00	5553.73	0.000	0.01
17.04	0.00	5553.73	0.000	0.01
17.28	0.00	5553.73	0.000	0.01
17.52	0.00	5553.73	0.000	0.01
17.76	0.00	5553.73	0.000	0.01
18.00	0.00	5553.73	0.000	0.01
18.24	0.00	5553.73	0.000	0.01
18.48	0.00	5553.73	0.000	0.01
18.72	0.00	5553.73	0.000	0.01
18.96	0.00	5553.73	0.000	0.01
19.20	0.00	5553.73	0.000	0.01
19.44	0.00	5553.73	0.000	0.01
19.68	0.00	5553.73	0.000	0.01
19.92	0.00	5553.73	0.000	0.01
20.16	0.00	5553.73	0.000	0.01
20.40	0.00	5553.73	0.000	0.01
20.64	0.00	5553.73	0.000	0.01
20.88	0.00	5553.73	0.000	0.01
21.12	0.00	5553.73	0.000	0.01
21.36	0.00	5553.73	0.000	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-Ft)	OUTFLOW (CFS)
21.60	0.00	5553.73	0.000	0.01
21.84	0.00	5553.73	0.000	0.01
22.08	0.00	5553.73	0.000	0.01
22.32	0.00	5553.73	0.000	0.01
22.56	0.00	5553.73	0.000	0.01
22.80	0.00	5553.73	0.000	0.01
23.04	0.00	5553.73	0.000	0.01
23.28	0.00	5553.73	0.000	0.01
23.52	0.00	5553.73	0.000	0.01
23.76	0.00	5553.73	0.000	0.01
24.00	0.00	5553.73	0.000	0.01
24.24	0.00	5553.73	0.000	0.01
24.48	0.00	5553.73	0.000	0.01
24.72	0.00	5553.73	0.000	0.01
24.96	0.00	5553.73	0.000	0.01
25.20	0.00	5553.73	0.000	0.01
25.44	0.00	5553.73	0.000	0.01
25.68	0.00	5553.73	0.000	0.01
25.92	0.00	5553.73	0.000	0.01
26.16	0.00	5553.73	0.000	0.01
26.40	0.00	5553.73	0.000	0.01
26.64	0.00	5553.73	0.000	0.01
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-Ft)	OUTFLOW (CFS)
26.88	0.00	5553.73	0.000	0.01
27.12	0.00	5553.73	0.000	0.01
27.36	0.00	5553.73	0.000	0.01
27.60	0.00	5553.73	0.000	0.01
27.84	0.00	5553.73	0.000	0.01
28.08	0.00	5553.73	0.000	0.01
28.32	0.00	5553.73	0.000	0.01
28.56	0.00	5553.73	0.000	0.01
28.80	0.00	5553.73	0.000	0.01
29.04	0.00	5553.73	0.000	0.01
29.28	0.00	5553.73	0.000	0.01
29.52	0.00	5553.73	0.000	0.01
29.76	0.00	5553.73	0.000	0.01
30.00	0.00	5553.73	0.000	0.01
30.24	0.00	5553.73	0.000	0.01
30.48	0.00	5553.73	0.000	0.01
30.72	0.00	5553.73	0.000	0.01
30.96	0.00	5553.73	0.000	0.01
31.20	0.00	5553.73	0.000	0.01
31.44	0.00	5553.73	0.000	0.01
31.68	0.00	5553.73	0.000	0.01
31.92	0.00	5553.73	0.000	0.01
32.16	0.00	5553.73	0.000	0.01
32.40	0.00	5553.73	0.000	0.01

32.64	0.00	5553.73	0.000	0.01
32.88	0.00	5553.73	0.000	0.01
33.12	0.00	5553.73	0.000	0.01
33.36	0.00	5553.73	0.000	0.01
33.60	0.00	5553.73	0.000	0.01
33.84	0.00	5553.73	0.000	0.01
34.08	0.00	5553.73	0.000	0.01
34.32	0.00	5553.73	0.000	0.01
34.56	0.00	5553.73	0.000	0.01
34.80	0.00	5553.73	0.000	0.01
35.04	0.00	5553.73	0.000	0.01
35.28	0.00	5553.73	0.000	0.01
35.52	0.00	5553.73	0.000	0.01
35.76	0.00	5553.73	0.000	0.01
36.00	0.00	5553.73	0.000	0.01
36.24	0.00	5553.73	0.000	0.01
36.48	0.00	5553.73	0.000	0.01
36.72	0.00	5553.73	0.000	0.01
36.96	0.00	5553.73	0.000	0.01
37.20	0.00	5553.73	0.000	0.01
37.44	0.00	5553.73	0.000	0.01
37.68	0.00	5553.73	0.000	0.01
37.92	0.00	5553.73	0.000	0.01
38.16	0.00	5553.73	0.000	0.01
38.40	0.00	5553.73	0.000	0.01
38.64	0.00	5553.73	0.000	0.01
38.88	0.00	5553.73	0.000	0.01
39.12	0.00	5553.73	0.000	0.01
39.36	0.00	5553.73	0.000	0.01
39.60	0.00	5553.73	0.000	0.01
39.84	0.00	5553.73	0.000	0.01

PEAK DISCHARGE = 0.702 CFS - PEAK OCCURS AT HOUR 1.74

MAXIMUM WATER SURFACE ELEVATION = 5554.048

MAXIMUM STORAGE = 0.0283 AC-FT INCREMENTAL TIME= 0.010000HRS

PRINT HYD ID=5 CODE 1

OUTFLOW HYDROGRAPH REACH 0.00

RUNOFF VOLUME = 0.00000 INCHES = 0.0000 ACRE-FEET
 PEAK DISCHARGE RATE = 0.00 CFS AT 0.000 HOURS BASIN AREA = 0.0000 SQ. MI.

*S BASIN #1 (Pad #1 North Detention Pond)

COMPUTE NM HYD ID=1 HYD=203 AREA=0.00023 SQ MI

A B C D 15 0 85

TP=0.13333 MASSRAIN=-1

K = 0.072665HR TP = 0.133330HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
UNIT PEAK = 0.77167 CFS UNIT VOLUME = 0.9833 B = 526.28 P60 = 1.4800
AREA = 0.000196 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000

K = 0.173555HR TP = 0.133330HR K/TP RATIO = 1.301692 SHAPE CONSTANT, N = 2.752957
UNIT PEAK = 0.67543E-01CFS UNIT VOLUME = 0.8515 B = 261.03 P60 = 1.4800
AREA = 0.000035 SQ MI IA = 0.65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.010000

BULKING FACTOR APPLIED TO HYDROGRAPH, FACTOR = 1.06000 AT PEAK FLOW.

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 203.00

RUNOFF VOLUME = 1.73940 INCHES = 0.0213 ACRE-FEET
PEAK DISCHARGE RATE = 0.52 CFS AT 1.530 HOURS BASIN AREA = 0.0002 SQ. MI.

ROUTE RESERVOIR ID=5 HYD NO=POND.OT INFLOW=1 CODE=24

	OUTFLOW (CFS)	STORAGE(AF)	ELEV(FT)
	0.01	0.0001	5548.86
	0.03	0.0009	5548.97
	0.08	0.0019	5549.09
	0.14	0.0029	5549.20
	0.22	0.0039	5549.31
	0.30	0.0050	5549.42
	0.40	0.0062	

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5548.69	0.000	0.00
0.24	0.00	5548.75	0.000	0.01
0.48	0.00	5548.75	0.000	0.01
0.72	0.02	5548.75	0.000	0.01
0.96	0.04	5548.79	0.000	0.02
1.20	0.07	5548.87	0.001	0.03
1.44	0.34	5549.06	0.003	0.12
1.68	0.29	5549.36	0.006	0.35
1.92	0.10	5549.17	0.004	0.20
2.16	0.05	5549.01	0.002	0.10
2.40	0.03	5548.93	0.002	0.06
2.64	0.01	5548.87	0.001	0.04

2.88	0.01	5548.83	0.001	0.02
3.12	0.01	5548.79	0.000	0.02
3.36	0.01	5548.77	0.000	0.01
3.60	0.01	5548.75	0.000	0.01
3.84	0.01	5548.75	0.000	0.01
4.08	0.01	5548.75	0.000	0.01
4.32	0.01	5548.75	0.000	0.01
4.56	0.01	5548.75	0.000	0.01
4.80	0.01	5548.75	0.000	0.01
5.04	0.01	5548.75	0.000	0.01
5.28	0.01	5548.75	0.000	0.01
5.52	0.01	5548.75	0.000	0.01
5.76	0.01	5548.75	0.000	0.01
6.00	0.01	5548.75	0.000	0.01
6.24	0.00	5548.75	0.000	0.01
6.48	0.00	5548.75	0.000	0.01
6.72	0.00	5548.75	0.000	0.01
6.96	0.00	5548.75	0.000	0.01
7.20	0.00	5548.75	0.000	0.01
7.44	0.00	5548.75	0.000	0.01
7.68	0.00	5548.75	0.000	0.01
7.92	0.00	5548.75	0.000	0.01
8.16	0.00	5548.75	0.000	0.01
8.40	0.00	5548.75	0.000	0.01
8.64	0.00	5548.75	0.000	0.01
8.88	0.00	5548.75	0.000	0.01
9.12	0.00	5548.75	0.000	0.01
9.36	0.00	5548.75	0.000	0.01
9.60	0.00	5548.75	0.000	0.01
9.84	0.00	5548.75	0.000	0.01
10.08	0.00	5548.75	0.000	0.01
10.32	0.00	5548.75	0.000	0.01
10.56	0.00	5548.75	0.000	0.01
10.80	0.00	5548.75	0.000	0.01
11.04	0.00	5548.75	0.000	0.01
11.28	0.00	5548.75	0.000	0.01
11.52	0.00	5548.75	0.000	0.01
11.76	0.00	5548.75	0.000	0.01
12.00	0.00	5548.75	0.000	0.01
12.24	0.00	5548.75	0.000	0.01
12.48	0.00	5548.75	0.000	0.01
12.72	0.00	5548.75	0.000	0.01
12.96	0.00	5548.75	0.000	0.01
13.20	0.00	5548.75	0.000	0.01
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
13.44	0.00	5548.75	0.000	0.01
13.68	0.00	5548.75	0.000	0.01

13.92	0.00	5548.75	0.000	0.01
14.16	0.00	5548.75	0.000	0.01
14.40	0.00	5548.75	0.000	0.01
14.64	0.00	5548.75	0.000	0.01
14.88	0.00	5548.75	0.000	0.01
15.12	0.00	5548.75	0.000	0.01
15.36	0.00	5548.75	0.000	0.01
15.60	0.00	5548.75	0.000	0.01
15.84	0.00	5548.75	0.000	0.01
16.08	0.00	5548.75	0.000	0.01
16.32	0.00	5548.75	0.000	0.01
16.56	0.00	5548.75	0.000	0.01
16.80	0.00	5548.75	0.000	0.01
17.04	0.00	5548.75	0.000	0.01
17.28	0.00	5548.75	0.000	0.01
17.52	0.00	5548.75	0.000	0.01
17.76	0.00	5548.75	0.000	0.01
18.00	0.00	5548.75	0.000	0.01
18.24	0.00	5548.75	0.000	0.01
18.48	0.00	5548.75	0.000	0.01
18.72	0.00	5548.75	0.000	0.01
18.96	0.00	5548.75	0.000	0.01
19.20	0.00	5548.75	0.000	0.01
19.44	0.00	5548.75	0.000	0.01
19.68	0.00	5548.75	0.000	0.01
19.92	0.00	5548.75	0.000	0.01
20.16	0.00	5548.75	0.000	0.01
20.40	0.00	5548.75	0.000	0.01
20.64	0.00	5548.75	0.000	0.01
20.88	0.00	5548.75	0.000	0.01
21.12	0.00	5548.75	0.000	0.01
21.36	0.00	5548.75	0.000	0.01
21.60	0.00	5548.75	0.000	0.01
21.84	0.00	5548.75	0.000	0.01
22.08	0.00	5548.75	0.000	0.01
22.32	0.00	5548.75	0.000	0.01
22.56	0.00	5548.75	0.000	0.01
22.80	0.00	5548.75	0.000	0.01
23.04	0.00	5548.75	0.000	0.01
23.28	0.00	5548.75	0.000	0.01
23.52	0.00	5548.75	0.000	0.01
23.76	0.00	5548.75	0.000	0.01
24.00	0.00	5548.75	0.000	0.01
24.24	0.00	5548.75	0.000	0.01
24.48	0.00	5548.75	0.000	0.01
24.72	0.00	5548.75	0.000	0.01
24.96	0.00	5548.75	0.000	0.01
25.20	0.00	5548.75	0.000	0.01
25.44	0.00	5548.75	0.000	0.01
25.68	0.00	5548.75	0.000	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
25.92	0.00	5548.75	0.000	0.01
26.16	0.00	5548.75	0.000	0.01
26.40	0.00	5548.75	0.000	0.01
26.64	0.00	5548.75	0.000	0.01
26.88	0.00	5548.75	0.000	0.01
27.12	0.00	5548.75	0.000	0.01
27.36	0.00	5548.75	0.000	0.01
27.60	0.00	5548.75	0.000	0.01
27.84	0.00	5548.75	0.000	0.01
28.08	0.00	5548.75	0.000	0.01
28.32	0.00	5548.75	0.000	0.01
28.56	0.00	5548.75	0.000	0.01
28.80	0.00	5548.75	0.000	0.01
29.04	0.00	5548.75	0.000	0.01
29.28	0.00	5548.75	0.000	0.01
29.52	0.00	5548.75	0.000	0.01
29.76	0.00	5548.75	0.000	0.01
30.00	0.00	5548.75	0.000	0.01
30.24	0.00	5548.75	0.000	0.01
30.48	0.00	5548.75	0.000	0.01
30.72	0.00	5548.75	0.000	0.01
30.96	0.00	5548.75	0.000	0.01
31.20	0.00	5548.75	0.000	0.01
31.44	0.00	5548.75	0.000	0.01
31.68	0.00	5548.75	0.000	0.01
31.92	0.00	5548.75	0.000	0.01
32.16	0.00	5548.75	0.000	0.01
32.40	0.00	5548.75	0.000	0.01
32.64	0.00	5548.75	0.000	0.01
32.88	0.00	5548.75	0.000	0.01
33.12	0.00	5548.75	0.000	0.01
33.36	0.00	5548.75	0.000	0.01
33.60	0.00	5548.75	0.000	0.01
33.84	0.00	5548.75	0.000	0.01
34.08	0.00	5548.75	0.000	0.01
34.32	0.00	5548.75	0.000	0.01
34.56	0.00	5548.75	0.000	0.01
34.80	0.00	5548.75	0.000	0.01
35.04	0.00	5548.75	0.000	0.01
35.28	0.00	5548.75	0.000	0.01
35.52	0.00	5548.75	0.000	0.01
35.76	0.00	5548.75	0.000	0.01
36.00	0.00	5548.75	0.000	0.01
36.24	0.00	5548.75	0.000	0.01
36.48	0.00	5548.75	0.000	0.01
36.72	0.00	5548.75	0.000	0.01

36.96	0.00	5548.75	0.000	0.01
37.20	0.00	5548.75	0.000	0.01
37.44	0.00	5548.75	0.000	0.01
37.68	0.00	5548.75	0.000	0.01
37.92	0.00	5548.75	0.000	0.01
38.16	0.00	5548.75	0.000	0.01
38.40	0.00	5548.75	0.000	0.01
38.64	0.00	5548.75	0.000	0.01
38.88	0.00	5548.75	0.000	0.01
39.12	0.00	5548.75	0.000	0.01
39.36	0.00	5548.75	0.000	0.01
39.60	0.00	5548.75	0.000	0.01
39.84	0.00	5548.75	0.000	0.01

PEAK DISCHARGE = 0.358 CFS - PEAK OCCURS AT HOUR 1.64
 MAXIMUM WATER SURFACE ELEVATION = 5549.374
 MAXIMUM STORAGE = 0.0057 AC-FT INCREMENTAL TIME= 0.010000HRS

PRINT HYD ID=5 CODE 1
 HYDROGRAPH FROM AREA POND.OT

RUNOFF VOLUME = 4.12119 INCHES = 0.0506 ACRE-Feet
 PEAK DISCHARGE RATE = 0.36 CFS AT 1.640 HOURS BASIN AREA = 0.0002 SQ. MI.

FINISH
 NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 09:21:51
 * (s10H

the 1990s, the number of people in the UK who are aged 65 and over has increased by 1.5 million (1990–1999) and is projected to increase by a further 1.5 million by 2010 (Office of National Statistics 2000).

There is a growing awareness of the need to develop strategies to meet the needs of the ageing population. The Department of Health (1999) has identified the need to develop a new paradigm of care for the ageing population, one that is based on the concept of 'active ageing'. This paradigm is based on the idea that ageing is a process, not a state, and that the goal of care should be to promote the health and well-being of older people, rather than to simply manage their decline. The Department of Health (1999) has identified a number of key areas for action, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for research, including: the health and well-being of older people; the quality of life of older people; and the needs of older people. The Department of Health (1999) has also identified a number of key areas for policy, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for practice, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for evaluation, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for implementation, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for monitoring, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for review, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for feedback, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for improvement, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for innovation, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for development, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for research, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for policy, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for practice, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

The Department of Health (1999) has also identified a number of key areas for evaluation, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need. The Department of Health (1999) has also identified a number of key areas for implementation, including: promoting the health and well-being of older people; improving the quality of life of older people; and ensuring that older people have access to the services and resources they need.

the 1990s, the number of people with a mental health problem has increased by 50% (Mental Health Foundation 2000).

There is a growing awareness of the need to address the needs of people with mental health problems in the community. The Department of Health (1999) has set out a vision for the future of mental health services, which includes a focus on preventing mental health problems, promoting recovery, and supporting people with mental health problems to live in the community.

One of the key challenges in achieving this vision is to ensure that people with mental health problems have access to the services they need. This includes access to mental health services, social services, housing, and employment. It also includes access to the support and resources that are needed to help people with mental health problems to live in the community.

One of the ways in which this can be achieved is by developing community-based mental health services. These services are designed to provide people with mental health problems with the support and resources they need to live in the community. They can include a range of services, such as mental health teams, day centres, and supported housing.

Community-based mental health services can play a vital role in helping people with mental health problems to live in the community. They can provide people with the support and resources they need to manage their mental health problem, and they can help people to build a life in the community. They can also help to reduce the need for hospital care, which can be a costly and disruptive experience for people with mental health problems.

There are a number of factors that can influence the effectiveness of community-based mental health services. These include the quality of the services, the availability of resources, and the involvement of people with mental health problems in the development and delivery of the services.

It is important to ensure that community-based mental health services are of high quality. This means that the services should be based on evidence-based practice, and they should be delivered by staff who are trained and experienced in working with people with mental health problems.

It is also important to ensure that there are sufficient resources available to support community-based mental health services. This includes funding, staff, and premises. Without sufficient resources, it will be difficult to develop and deliver high-quality community-based mental health services.

Finally, it is important to ensure that people with mental health problems are involved in the development and delivery of community-based mental health services. This can help to ensure that the services are relevant to the needs of people with mental health problems, and it can help to build a sense of ownership and responsibility among people with mental health problems.

Community-based mental health services can play a vital role in helping people with mental health problems to live in the community. By ensuring that these services are of high quality, that there are sufficient resources available to support them, and that people with mental health problems are involved in their development and delivery, we can help to achieve the vision of a mental health system that is focused on preventing mental health problems, promoting recovery, and supporting people with mental health problems to live in the community.

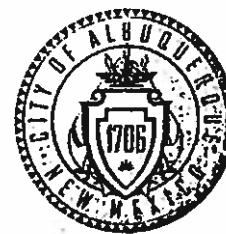
References Department of Health (1999) *Mental Health: A New Vision for the Future*. London: HMSO.

Mental Health Foundation (2000) *Mental Health Statistics: A Report for the Year 2000*. London: Mental Health Foundation.

Roberts, J. A., Smith, P., & Thomas, P. (2001) *Mental Health Services in the Community: A Review of Current Practice*. London: HMSO.

Thomas, P., Smith, P., & Roberts, J. A. (2002) *Mental Health Services in the Community: A Review of Current Practice*. London: HMSO.

CITY OF ALBUQUERQUE



March 27, 2008

Gregory J. Krenik, PE
Mark Goodwin & Associates
P.O. 90606
Albuquerque, NM 87199

**Re: Shoppes at Ventura Grading and Drainage Plan
Engineer's Stamp dated 2-22-08 (C20/D16)**

Dear Mr. Krenik,

Based upon the information provided in your submittal dated 2-25-08, the above referenced report is approved for Building Permit and Final Plat. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

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

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Planning Dept
Development and Building Services

C: file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 30, 2001

Gregory J. Krenik, P.E.
Mark Goodwin & Assoc.
P.O. Box 90606
Albuquerque, New Mexico 87199

**RE: Grading and Drainage Certification
Furr's Supermarket- Ventura & Paseo Del Norte (C-20/D16)
Submitted for Release of Financial Guarantees
Engineers Stamp dated 11/11/1999
Engineer's Certification dated 12/11/2000
Engineers Letter dated March 27, 2001**

Dear Mr. Krenik:

Based upon the information provided in your submittal dated 12/12/2000 and your letter dated 3/27/2001, the above referenced plan is adequate to satisfy the Grading and Drainage Certification and Letter of Map Revision (LOMR) requirements for Release of the remaining Financial Guaranty.

This will satisfy the conditions for release of the remaining financial guaranty for \$20,000.00 being held as per City Hydrology's letter dated December 18, 2000.

If you have any questions, please call me at 924-3986.

Sincerely,

Bradley L. Bingham, P.E.
Senior Civil Engineer, Hydrology
Public Works Dept., C.O.A.

C: Arlene Portillo, PWD - #601981
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 23, 2000

Gregory j. Krenik, P.E.
Mark Goodwin & Associates, PA
P.O. Box 90606
Albuquerque, NM 87199

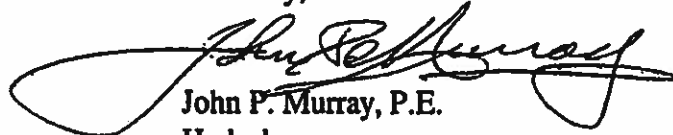
***RE: FURR'S, PASEO DEL NORTE & VENTURA (C20-D16). ENGINEER'S
CERTIFICATION FOR CERTIFICATE OF OCCUPANCY APPROVAL.
ENGINEER'S STAMP DATED OCTOBER 16, 2000.***

Dear Mr.Krenik:

Based on the information provided on your October 16, 2000 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,



John P. Murray, P.E.
Hydrology

c: Whitney Reiersen
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 20, 1999

Gregory J. Krenik, P.E.
Mark Goodwin & Associates, PA
P. O. Box 90606
Albuquerque, New Mexico 87199

RE: *Revised Drainage Report and Grading and Drainage Plan for Furr's-East Paseo del Norte, (C20/D16) Submitted for Building Permit Approval, Engineer's Stamp Dated 6/23/99.*

Dear Mr. Krenik:

Based on the information provided, the above referenced plan, dated June 23, 1999, is approved for Building Permit release.

As you are aware, the Engineer's Certification is required prior to release of the Certificate of Occupancy for this site.

If you have any questions, or if I may be of further assistance to you, please call me at 924-3982.

Sincerely,

Susan M. Calongne, P.E.
City/County Floodplain Administrator

c: Fred Katz, The FHK Company
File

**ADDENDUM TO THE
DRAINAGE CALCULATIONS
for
FURR'S
Paseo del Norte**





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 FURR'S - PASO DEL NORTE
SUBJECT REVISED PONDS
BY GSK DATE 11-27-00
CHECKED _____ DATE _____
SHEET 1 OF _____

• THIS REVISES THE DRAINAGE REPORT FOR FURR'S PASO DEL NORTE PREPARED BY MARK GOODWIN AND ASSOCIATES 12-11-98 APPENDIX "A"

• THE BUILDING WAS DESIGNED WITH DOWN SPOUTS ON THE NORTH AND SOUTH SIDES INSTEAD OF THE WEST AND SOUTH SIDES.

• WE WILL PLACE A SMALLER ORIFICE ON THE UNDERGROUND POND. IT WILL BE REDUCED FROM 9.5 IN TO 8.5 IN.

THE AREA TO THE UNDERGROUND POND GETS REDUCED FROM 0.005812 SM TO 0.004951 SM.

THE TYPE "B" AREA INCREASED FROM 9.27% TO 10.88% AND THE TYPE "D" AREA DECREASED FROM 90.73% TO 89.12%

• TOTAL ALLOWABLE Q FROM FURR'S = 6.09 CFS (sheet 7 of ORIGINAL REPORT)

PER THE AHYMO OUTPUT FOR THE REVISED POND $Q = 4.80$ CFS SEE SHEETS 2-5

THIS LEAVES $6.09 - 4.80 = 1.29$ CFS TO BE DISCHARGED FROM THE NORTH SIDE OF BUILDING USING 6-1.5" X 6" ORIFICES OVER THE 6" X 6" OPENING TO THE DOWNSPOUTS

ROOF SLOPE = $\frac{1}{4}$ " PER FOOT
SIDE OF BLDG = 180'
AREA OF BLDG = 0.000861 SM
100% TYPE "D"



FROM AHYMO OUTPUT SHEETS 6-9
 $Q = 1.23$ CFS < 1.29 CFS OK

• DOWNSPOUTS WILL DISCHARGE THROUGH 4" PVC PIPES THROUGH CURB INTO HOLLY.



SHEET 8 OF

Revised 12-11-98

- | ELEV | VOLUME (AC-FT) | OUTFLOW (9.5" ORIFICE) |
|------|----------------|------------------------|
| 55.5 | 0.0 | 0.0 |
| 56.5 | 0.021 | 1.84 |
| 57.5 | 0.053 | 3.00 |
| 58.5 | 0.089 | 3.82 |
| 59.5 | 0.122 | 4.50 |
| 60.5 | 0.142 | 5.09 |
| 61.5 | 0.143 | 5.61 |
| 62.5 | 0.273 | 6.09 |
- $Q = 0.6A\sqrt{2gh}$

Diagram illustrating the cross-section of a pipe with water flowing over it. The diagram shows a 300x60" pipe with a 9.5" orifice. The water surface is at an elevation of 62.48, which is the maximum water surface elevation. The top of the curb is at 62.50, and the pavement is at 62.48. The bottom of the pipe is at 55.5. The diagram also indicates a 15" RCP (Rigid Concrete Pipe) section. The flow rate is given as $Q = 6.08 \text{ cfs}$.

Peak discharge = 6.08 cfs < 6.09 cfs OK
FROM A11440 OUTPUT SHEETS 46-48



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

PROJECT FURRS - PASEO DEL NORTE
SUBJECT DRAINAGE CALCS
BY GSK DATE 10-7-98
CHECKED _____ DATE _____

SHEET 7 OF _____

Revised 12-11-98

- FIND UNDEVELOPED RUNOFF OF EXISTING SITE

$$AREA A = 8.7900 AC$$

USE 90% B AND 10% C

FROM HYDRO SHEETS 43-45

$$Q = 23.81 CFS$$

THIS IS THE ALLOWABLE RUNOFF FOR THE SITE

- FIND RUNOFF FROM DIRECT DISCHARGE AREAS.
BASINS I + II

$$Q = 13.28 + 2.58$$

$$= 15.86 CFS$$

- ALLOWABLE DISCHARGE FROM PADS 1+2 (BASIN II) AND FURRS (BASIN III)

$$Q = 23.81 - 15.86$$

$$= 7.95 CFS$$

- ALLOWABLE DISCHARGE FOR THESE 3 LOTS

$$RETAIL PAD 1 = 0.93 CFS$$

$$RETAIL PAD 2 = 0.93 CFS$$

$$FURRS = 6.09 CFS$$

- RETAIL PADS 1+2 WILL BE A TEMP. RETENTION POND FOR ITS RUNOFF UNTIL THEY ARE DEVELOPED THEN THEY WILL HAVE A CONTROLLED DISCHARGE FROM THEIR PONDS. SEE ABOVE.

- SIZE TEMP POND FOR 2-100yr 6HR STORMS

$$V = 2 \times 0.2425 AC \cdot FT = 21,127 CF$$

$$160' \times 200' = 32,000$$

$$154' \times 194' = 29,876$$

$$> 1 \text{ FOOT DEEP VOLUME} = 30,938 CF > 21,127 \text{ OK}$$

- SIZE FURRS POND

$$Q_{ALLOWABLE} = 5.95 CFS$$

USE 2 - DBL "D" INLETS AT EACH SUMP LOCATION



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

PROJECT FURRS - Paseo Del Norte
SUBJECT DRAINAGE CALCS
BY GSK DATE 9-1-98
CHECKED _____ DATE _____

SHEET 6 OF _____

REVISE 12-11-98

- DETERMINE FLOWS FOR ENTIRE BASIN 921.2 AND COMPARE WITH ORIGINAL REPORT.
- TOTAL AREA PER ORIGINAL REPORT = 0.085 SM
PER SHEETS 1, 3 & 4 OF THIS REPORT THE AREA THAT DRAINS TO THE STORMDRAIN IN HOLLY
 $A = 21,2925 + 8.79 + 1.98$
 $= 32,0625 \text{ AC} = 0.050 \text{ SM}$
- THIS LEAVES $0.085 - 0.050 = 0.035 \text{ SM}$ THAT DRAIN IN THE BASIN. THESE FLOWS WILL COME DOWN CARMEL WHICH IS THE STREET NORTH OF HOLLY.
- THIS IS ZONED R-D SO THE LAND TREATMENTS OF 50% B & 50% D WILL BE USED.

FROM AHYMO OUTPUT SHEETS 40-42

$$Q = 86.67 \text{ CFS}$$

ADD THIS TO TOTAL Q ON SHEET 4 (114.87 CFS)

$$\text{TOTAL } Q = 119.03 + 91.62$$

$$= 210.65 \text{ CFS} < 254 \text{ R/O ORIGINAL REPORT}$$

OK

* SINCE THE FLOWS FOR THE BASIN ARE ACTUALLY LESS THAN ORIGINALLY ESTIMATED THE FURR'S DESIGN IS ADEQUATE.

WHEN CARMEL IS DEVELOPED A STORMDRAIN WILL NEED TO BE DESIGNED.

- VERIFY STREET CAPACITY OF VENTURA

$$S = 1\% \quad n = 0.017$$

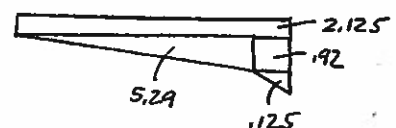
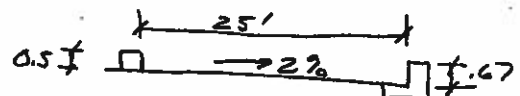
$$d = 0.67$$

$$WP = 25.76$$

$$A = 8.46$$

$$U = 4.16 \text{ F/S}$$

$$Q = 35.20 \text{ CFS}$$



- TOTAL Q IN VENTURA SOUTH OF INLETS

$$Q = 14.76 + 7.80 + 1.98 = 24.54 \text{ CFS} < 35.20 \text{ CFS} \quad \text{OK}$$

\uparrow BASIN II \uparrow UNDER VENTURA \uparrow VENTURA



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

PROJECT FUNDS - PASEO DEL NORTE
SUBJECT DRAINAGE CALCS
BY GSK DATE 6-15-98
CHECKED _____ DATE _____

Revised 9-1-98 12-11-98

SHEET 5 OF _____

SINCE WE DO NOT KNOW HOW THE AREA EAST OF US WILL BE DEVELOPED WE WILL ONLY DESIGN FROM THE ADJOY TO OUR EAST PROPERTY LINE, FOR FUTURE DEVELOPMENT THE FLOW AND SIZES ON SHEET 4 WILL DIRECT THE DESIGN.

- Q AT OUR EAST PROP. LINE IN STORM DRAIN = 73.05 CFS
36" RCP
- AT THE ENTRANCE 300' EAST OF VENTURA ON HOLLY BASIN I ENTERS THE STORM DRAIN
 $Q = 73.05 + 13.28 = 86.33$ CFS USE 36" RCP
- AT INTERSECTION OF HOLLY AND VENTURA THE REMAINING 14.76 CFS + 7.80 CFS ENTERS THE STORM DRAIN
USE 42" RCP
- DETERMINE EROSION SETBACK
WE WILL USE 6 FEET PER 100 CFS
FROM THE DRAINAGE REPORT C20/05 LOTS 26 & 27 (Pete's Landscaping)
"APPENDIX B"
WE SHOW THE ESB FOR 756 CFS. = 45.36 FEET.
FROM THE PLOT ON THE G+D PLAN WE WILL NEED A SCOUR WALL FOR 190' ALONG HOLLY FROM VENTURA, THIS WALL WILL BE INCORPORATED INTO THE RETAINING WALL ALONG THE NORTH PROP. LINE.
- DETERMINE SCOUR
USE SECTION 60 FROM Pete's Landscaping
TOTAL SCOUR = $y_s + \frac{1}{2} h_a$
$$y_s = 0.4(4)(F_r)^{0.33}$$
$$= \frac{122.81}{132.29}(4)(1.22)^{0.33}$$
$$= 5.74$$
$$\frac{1}{2} h_a = 0.07(2)(\pi) \frac{V^2}{g}$$
$$= 0.07(2)\pi \left(\frac{6.16^2}{32.2} \right)$$
$$= 0.52$$
$$\text{TOTAL SCOUR} = 5.74 + 0.52$$
$$= 6.26'$$

WE WILL USE A 6.5' SCOUR WALL

- WE WILL SUBMIT A LOMR TO FEMA AND VERIFY THE ABOVE HEC-RON



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

PROJECT FURRS - PASEO DEL NORTE
SUBJECT DRAINAGE CALCS
BY GSK DATE 6-15-98
CHECKED _____ DATE _____

SHEET 4 OF _____
REVISED 12-11-98

FROM AHYMO SHEETS 28-36

BASIN	Q (CFS)	SLOPE
1	0.67	5.00% FOR LAST 15' OTHERWISE FLAT
2	0.90	3.33%
3	0.20	2.00%

ALL OF THESE BASINS HAVE THE ADJACENT PROPERTY HIGHER THAN THE FURRS AND RETAIL PAD SITE.

THEREFORE UNDERCUTTING OF THE FOOTING IS NOT A CONCERN.

- DESIGN REQUIRED STORMDRAIN IN HOLLY TO ARROYO TOTAL AREA IS THE ROW OF LOTS NORTH & SOUTH OF HOLLY FROM VENTURA TO HOCBROOK. WE WILL USE OPTION E/S OF THE NORTH & SOUTH DOMINGO BACK ARROYO AND PDN CORRIDOR DRAINAGE MANAGEMENT PLAN. SEE "APPENDIX A"

THIS IS IN BASIN 921.2

PER THE REPORT THE AREA IS 0.085 SQ. MI. THIS ACCOUNTS FOR AREA ON BOTH THE NORTH AND SOUTH SIDE OF THE ARROYO.

THE AREA THAT DRAINS TO HOLLY EAST OF OUR SITE IS 21.2925 AC = 0.03327 SQ. MI, ZONED R-D

WE WILL USE 50% TYPE "D" AND 50% TYPE "B"

PER AHYMO OUTPUT SHEETS 37-39

$$Q = 73.05 \text{ CFS}$$

WE WILL USE A 2.3% SLOPE PER THE REPORT.

FROM PIPE SIZE NOMO SHEET 9

AT 2.3%

18"	CARRIES	16 CFS
24"	"	34 CFS
30"	"	60 CFS
36"	"	100 CFS
42"	"	140 CFS

$$\text{TOTAL } Q \text{ INCLUDING OUR SITE } 73.05 + 13.28 + 3.97 + 18.17 + 6.40 = 114.87 \text{ CFS}$$



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

PROJECT FURRS - Paseo Del Norte
SUBJECT DRAINAGE CALCS
BY CSK DATE 4-21-98
CHECKED _____ DATE _____

SHEET 3 OF _____

REVISED: 6-15-98 9-1-98 12-11-98

- FIND AREA AND Q OF VENTURA SOUTH OF NEW HOLLY.

$$\frac{1}{2} (86 \times 450) = 19,350 \text{ sq ft} = 0.4442 \text{ AC} \quad 28\% \text{ B} \quad 72\% \text{ D}$$

FROM HYMO OUT PUT SHEETS 25-27

$$Q = 1.98 \text{ CFS}$$

- THE OFFSITE FLOWS ARE NEGLIGIBLE AND DO NOT HAVE AN IMPACT.

THESE BASINS ARE DIVIDED INTO FOUR.

OFFSITE BASIN 1 - DRAINS SOUTH ALONG RET. WALL ALONG THE RETAIL PAD TO HOLLY.

OFFSITE BASIN 2 - DRAINS NORTH ALONG RET. WALL ALONG FURRS TO HOLLY.

OFFSITE BASIN 3 - DRAINS SOUTH ALONG RET. WALL ALONG FURRS TO PDN ROW.

FOR THIS DESIGN 100% TYPE "A" LAND TREATMENT WAS USED. WHEN THESE SITES DEVELOP, RUNOFF WILL HAVE TO BE DIRECTED TO HOLLY AND AS A DEVELOPED SITE ARE NOT ALLOWED TO DISCHARGE ONTO ADJACENT PROPERTY.



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

PROJECT FURRS - PASO DEL NORTE
SUBJECT DRAINAGE CALCS
BY GJK DATE 4-21-98
CHECKED _____ DATE _____

SHEET 2 OF _____

REVISED: 6-15-98 12-11-98

• FURR'S PAD SITE

AREA = 4.7843 AC

THIS SITE IS SPLIT INTO ALL 3 BASINS

BASIN	AREA	B	O
I	0.9287 AC	0.2308 AC	0.6979 AC
II	0.1358 AC	0.0102 AC	0.1256 AC
III	3.7198 AC	0.3448 AC	3.3750 AC

• TOTAL SITE BREAKDOWN

BASIN	AREA (AC)	"B" AREA / %	"O" AREA / %
I	2.9573	0.7458 AC / 25.22	2.2115 AC / 74.78
II	0.8010	0.0594 AC / 7.42	0.7416 AC / 92.58
III	3.7198	0.3448 AC / 9.27	3.3750 AC / 90.73
IV	1.3119	0.7312 AC / 10.00	1.1807 AC / 90.00
	8.7900		

FROM ANYMO OUTPUT SHEETS 10-21

BASIN	Q (CFS)
I	13.28
II	3.97
III	18.17
IV	6.40

$$P_1 = 2.1817$$

$$P_2 = 2.6017$$

$$P_{24} = 3.1017$$

$$OT = 0.03333 \text{ HR}$$

$$TP = 0.1333 \text{ HR}$$

• POND PAD 4

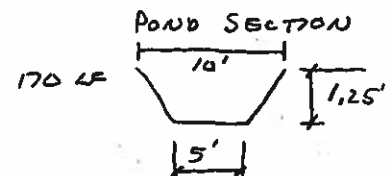
7" ORIFICE TO INTERIOR ROAD FROM POND

FROM ANYMO OUTPUT SHEETS 22-24

$$Q \text{ OF PAD} = 2.41 \text{ CFS}$$

$$\text{PEAK } Q \text{ FROM POND} = 1.02 \text{ CFS}$$

$$\text{MAX WATER SURFACE} = 54.95$$



• REVISE BASIN II RUNOFF

$$Q = 3.97 - (2.41 - 1.02)$$

$$= 2.58 \text{ CFS}$$



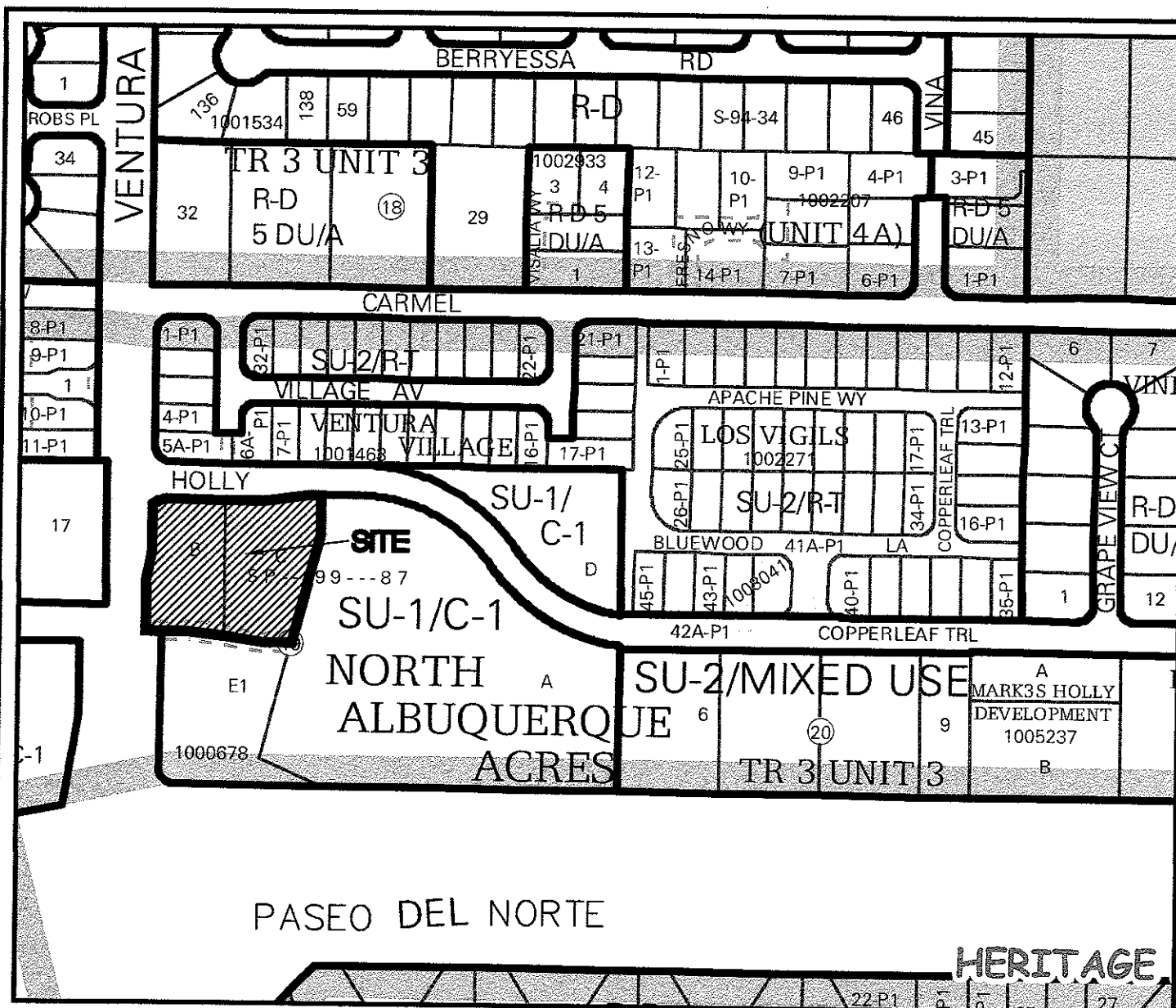
D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT FURRS - PASEO DEL NORTE
SUBJECT DRAINAGE CALCS
BY GJK DATE 4-21-98
CHECKED _____ DATE _____

SHEET 1 OF _____

REVISED: 6-15-98 12-11-98

- SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE
- EXISTING OFFSITE FLOWS WILL NOT BE ALLOWED TO ENTER THE SITE BUT INSTEAD WILL BE ROUTED DOWN ALONG THE WALLS ON THE PROPERTY LINE TO EITHER THE ARROYO OR RIGHT OF WAY.
- THE SITE FOR THIS REPORT WILL BE DIVIDED INTO FOUR BASINS:
 - I - DRAINS TO HOLLY THEN TO VENTURA
 - II - DRAINS TO INTERIOR ROAD THEN TO VENTURA
 - III - DRAINS TO ONSITE STORM DRAIN THEN TO HOLLY
 - IV - DRAINS TO ONSITE STORM DRAIN THEN TO HOLLY
- DIRECT DISCHARGE WILL BE ALLOWED TO THE NEW STORM DRAIN IN THE ROAD ROW
- | | |
|--------------------------|--|
| RETAIL PAD 1 = 0.6220 AC | BASINS <u>IV</u> & <u>II</u> |
| RETAIL PAD 2 = 0.7725 AC | BASINS <u>II</u> & <u>II</u> |
| RETAIL PAD 3 = 0.9955 AC | BASIN <u>I</u> |
| RETAIL PAD 4 = 0.5826 AC | BASIN <u>II</u> |
| HOLLY ROW = 1.0331 AC | BASIN <u>I</u> |
| FURR'S PAD = 4.7843 AC | BASINS <u>I</u> , <u>II</u> , & <u>III</u> |
| 8.7900 AC | |
- RETAIL PAD 3 (BASIN I) DIRECT RUNOFF
 - AREA = 0.9955 AC
 - TYPE B THAT DRAINS TO HOLLY = 0.2567 AC
 - TYPE D THAT DRAINS TO HOLLY = 0.7388 AC
- RETAIL PADS 1 + 2 (BASIN II) NEEDS TO POND
 - TOTAL AREA = 1.3945 AC
 - ASSUME 10/10
 - TYPE D = 1.1807 AC
 - TYPE B = 0.1312 AC
 - 0.0826 AC IS THE 30' INTERIOR ROAD THIS WILL BE DIRECT DISCHARGE (BASIN II)
 - AREA TO POND = 1.3119 AC
- RETAIL PAD 4 (BASIN II) DIRECT RUNOFF AND PONDING
 - AREA = 0.5826 AC
 - ASSUME 90/10
 - TYPE B = 0.0492 AC
 - TYPE D = 0.4427 AC
 - 0.0907 AC IS THE 30' INTERIOR ROAD THIS WILL BE DIRECT DISCHARGE (BASIN II)
 - AREA AT 90/10 = 0.4919 AC TO BE PONDED
- HOLLY ROW (BASIN I) DIRECT DISCHARGE
 - AREA = 1.0331 AC
 - TYPE B = 25% = 0.2583 AC
 - TYPE D = 75% = 0.7748 AC



Vicinity Map - Zone Atlas C-20-Z

N.T.S.

Exceptions 11-19

- 11 RESERVATIONS AND EXCEPTIONS IN THE PATENT BY THE UNITED STATES OF AMERICA RECORDED IN BOOK 80 PAGE 353 RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-BLANKET IN NATURE
- 12 EASEMENTS WITH COVENANTS AND RESTRICTIONS AFFECTING LAND (ECR), FILED APRIL 15, 1999 IN BOOK 9906, PAGE 845, AS DOCUMENT NO. 1999050970; FIRST AMENDMENT TO EASEMENTS WITH COVENANTS AND RESTRICTIONS AFFECTING LAND (ECR), FILED JULY 27, 2004, IN BOOK A81, PAGE 4579, AS DOCUMENT NO. 2004104845, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-SHOWN HEREON AS [6]
- 13 COVENANT AGREEMENT, FILED FEBRUARY 29, 2000 IN BOOK A2, PAGE 9759, AS DOCUMENT NO. 2000019853, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-BLANKET IN NATURE
- 14 RESTRICTIVE COVENANT AGREEMENT, FILED JULY 27, 2004, IN BOOK A81, PAGE 4580, AS DOCUMENT NO. 2004104846, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-BLANKET IN NATURE
- 15 COVENANT AGREEMENT, FILED JANUARY 3, 2007 IN BOOK A130, PAGE 1325, AS DOCUMENT NO. 2007001326, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-BLANKET IN NATURE
- 16 PUBLIC ACCESS AND UTILITY EASEMENT, AND INCIDENTAL PURPOSE THERETO, RESERVED ALONG THE WESTERLY TEN (10) FEET OF TRACT "B" AND THE NORTHERLY TEN (10) FEET OF TRACTS "B" AND "C" OF THE INSURED PREMISES, AS SHOWN ON THE RECORDED PLAT, RECORDED IN PLAT BOOK 99C PAGE 89 RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-SHOWN HEREON AS [1]
- 17 WATERLINE EASEMENT, AND INCIDENTAL PURPOSE THERETO, RESERVED ALONG THE NORTHERLY PORTION OF TRACT "C" OF THE INSURED PREMISES, AS SHOWN ON THE RECORDED PLAT, RECORDED IN PLAT BOOK 99C PAGE 89 RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-SHOWN HEREON AS [2]
- 18 PUBLIC SANITARY SEWER, WATER AND UTILITY EASEMENT, AND INCIDENTAL PURPOSE THERETO, RESERVED ALONG THE SOUTHERLY THIRTY (30) FEET OF THE INSURED PREMISES, AS SHOWN ON THE RECORDED PLAT, RECORDED IN PLAT BOOK 99C, PAGE 89, RECORDS OF BERNALILLO COUNTY, NEW MEXICO.
AFFECTS SUBJECT PROPERTY-SHOWN HEREON AS [3]
- 19 RIGHTS OF PARTIES UNDER ANY UNRECORDED RENTAL AND/OR LEASE AGREEMENTS.
NOT SURVEY RELATED

Flood Notes

BASED UPON SCALING, THIS PROPERTY LIES WITHIN FLOOD ZONE X WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD. AS DETERMINED BY F.E.M.A. AND SHOWN ON THE FLOOD INSURANCE RATE MAP DATED SEPTEMBER 26, 2008, MAP NO. 35001C0141G.

Indexing Information

Section 17, Township 11 North, Range 4 East, N.M.P.M.
as Projected into the Elena Gallegos Grant
Subdivision: North Albuquerque Acres
Owner: KK Vista Partners (Tract A)
Broadway Vista Partners (Tract C)
UPC # 102006430905040103 (Tract A)
102006428606240102 (Tract C)

Record and Measured Legal Description

TRACTS LETTERED "B" AND "C" IN BLOCK NUMBERED NINETEEN OF THE PLAT OF TRACTS A, B, C, D, E, AND F, BLOCK 19, TRACT 3 UNIT 3, NORTH ALBUQUERQUE ACRES, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON APRIL 15, 1999, IN PLAT BOOK 99C, FOLIO 89.

THE PARCEL DESCRIBED HEREON IS THE SAME AS SHOWN ON THE TITLE COMMITMENT PROVIDED BY STEWART TITLE, HAVING FILE NO. 01147-45550 AND AN EFFECTIVE DATE OF APRIL 6, 2018.

Documents

1. TITLE COMMITMENT PROVIDED BY STEWART TITLE, HAVING FILE NO. 01147-45550 AND AN EFFECTIVE DATE OF APRIL 06, 2018.
2. PLAT OF RECORD FILED IN THE BERNALILLO COUNTY CLERK'S OFFICE ON APRIL 15, 1999 IN PLAT BOOK 99C, FOLIO 89.
3. NEW MEXICO STATE HIGHWAY COMMISSION RIGHT-OF-WAY MAP, NEW MEXICO PROJECT NO. TPU-4054(2), DATED MAY 7, 1993.

Boundary Survey and ALTA/NSPS Land Title Survey for Tracts B and C, Block 19 North Albuquerque Acres Tract 3, Unit 3 City of Albuquerque Bernalillo County, New Mexico May 2018

Notes

1. FIELD SURVEY PERFORMED IN MAY 2018.
2. ALL DISTANCES ARE GROUND DISTANCES: U.S. SURVEY FOOT.
3. THE BASIS OF BEARINGS REFERENCES PLAT OF RECORD (4/15/1999, 99C-89).
4. NO BUILDINGS EXISTING ON THE SURVEYED PROPERTY.

Surveyor's Certificate

To: Michael J. Fanning, Broadway Vista Partners, a California general partnership, Bernadine C. King, Trustee of the Survivor's Trust under the Hinsvark Family Trust dated November 7, 1994, and Named Successor Trustee of the Franklin Family Trust dated 11/13/2000 as their interests may appear, Stewart Title Guaranty Company.

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1-4, 7(a) of Table A thereof. The Field Work was completed on May 23, 2018.

Will Plotner Jr. 5/24/18
N.M.R.P.S. No. 14271 Date

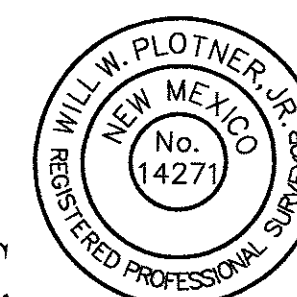
Revisions: 5/24/2018 - Original

I, Will Plotner Jr., New Mexico Professional Surveyor No. 14271, do hereby certify that this boundary survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico subdivision act and that this instrument is a boundary survey plat of an existing tract or tracts.

Will Plotner Jr. 5/24/18
N.M.R.P.S. No. 14271 Date

CSI-CARTESIAN SURVEYS INC.

P.O. BOX 44414 RIO RANCHO, N.M. 87174
Phone (505) 896 - 3050 Fax (505) 891 - 0244



Sheet 1 of 2

181014

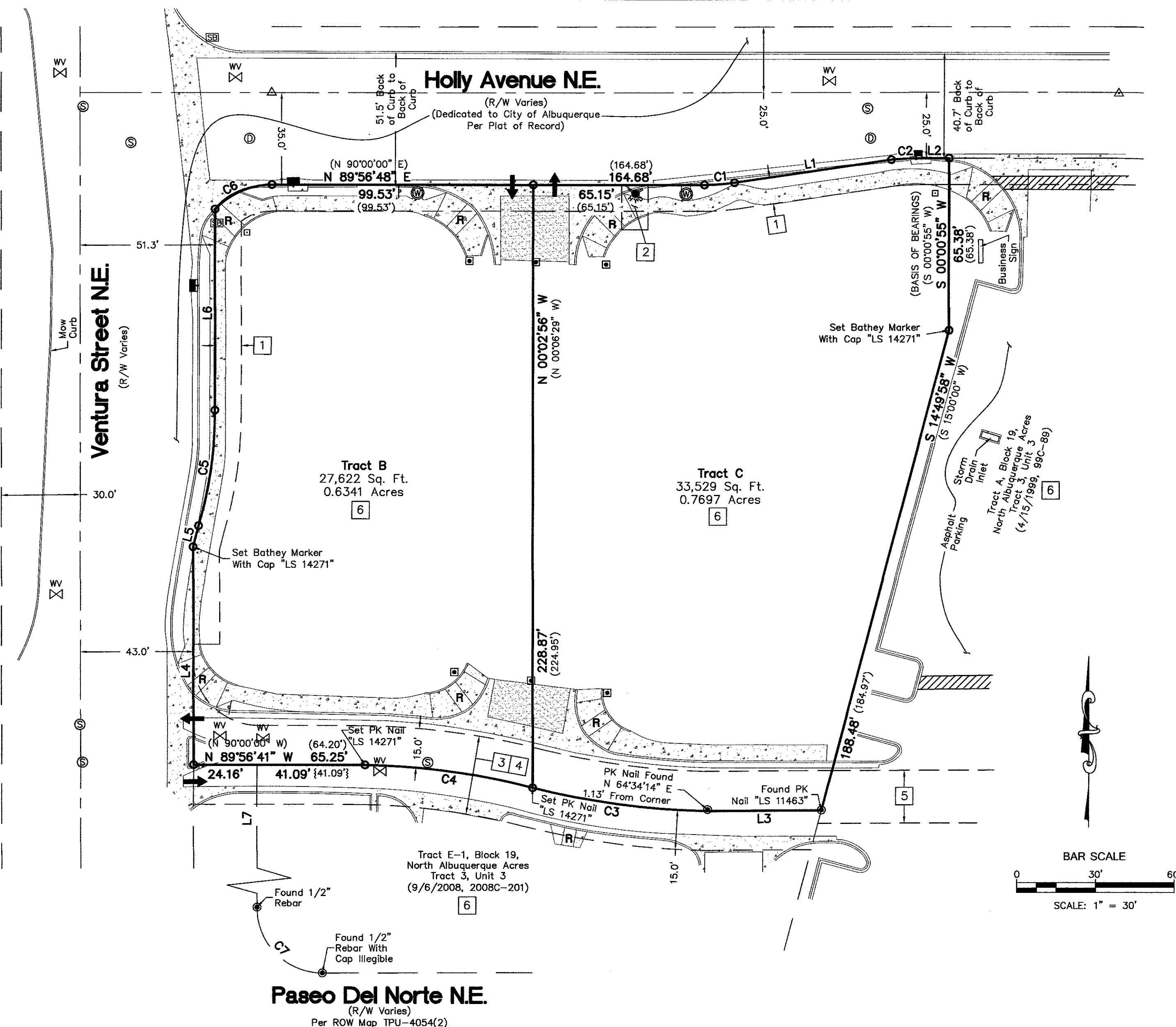
Legend

N 90°00'00" E	MEASURED BEARINGS AND DISTANCES	□	UTILITY PEDESTAL	↔	CURB CUT/INDICATION OF ACCESS TO ROADWAY
(N 90°00'00" E)	RECORD BEARINGS AND DISTANCES (4/15/1999, 99C-89)	□	BOLLARD	↔	RAMP
(N 90°00'00" E)	RECORD BEARINGS AND DISTANCES (9/6/2008, 2008C-201)	□	SIGNAL BOX		
●	FOUND MONUMENT AS INDICATED	⊗	WATER VALVE		
○	SET CHISELED "X" UNLESS OTHERWISE NOTED	⊗	WATER METER		
△	FOUND CENTERLINE MONUMENT AS INDICATED "LS 11463"	⊗	FIRE HYDRANT		
■	CONCRETE	⊗	MANHOLE		
■	ASPHALT	⊗	MANHOLE		
		⊗	STORM DRAIN INLET		
		⊗	SIGN		

Boundary Survey and ALTA/NSPS Land Title Survey for Tracts B and C, Block 19 North Albuquerque Acres Tract 3, Unit 3 City of Albuquerque Bernalillo County, New Mexico May 2018

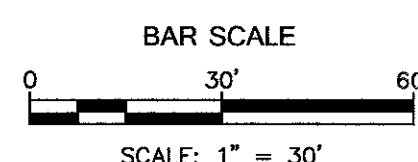
Easement Notes

- 16 1 EXISTING 10' PUBLIC ACCESS & P.U.E. (4/15/1999, 99C-89)
- 17 2 EXISTING 10' X 17' WATERLINE EASEMENT (4/15/1999, 99C-89)
- 18 3 EXISTING 30' PUBLIC SANITARY SEWER, WATER AND UTILITY EASEMENT (4/15/1999, 99C-89)
- 4 EXISTING 30' PRIVATE ACCESS EASEMENT (4/15/1999, 99C-89)
- 5 EXISTING 20' WATERLINE EASEMENT (4/15/1999, 99C-89)
- 12 6 EXISTING EASEMENT FOR INGRESS, EGRESS, DRAINAGE AND PEDESTRIAN (4/15/1999, BK. 9906, PG. 845), BLANKET IN NATURE



Line Table		
Line #	Direction	Length (ft)
L1	N 81°43'42" E (N 81°46'54" E)	60.40' (60.40')
L2	N 89°56'48" E (N 90°00'00" E)	11.06' (10.86')
L3	S 89°42'55" W (S 90°00'00" W)	44.26' (44.26')
L4	N 00°09'41" W (N 00°06'29" W)	82.72' (78.65')
L5	N 14°27'00" E (N 14°30'12" E)	8.25' (8.25')
L6	N 00°09'41" W (N 00°06'29" W)	76.27' (76.27')
L7	S 00°05'12" E {S 00°11'28" E}	226.10' {226.10'}

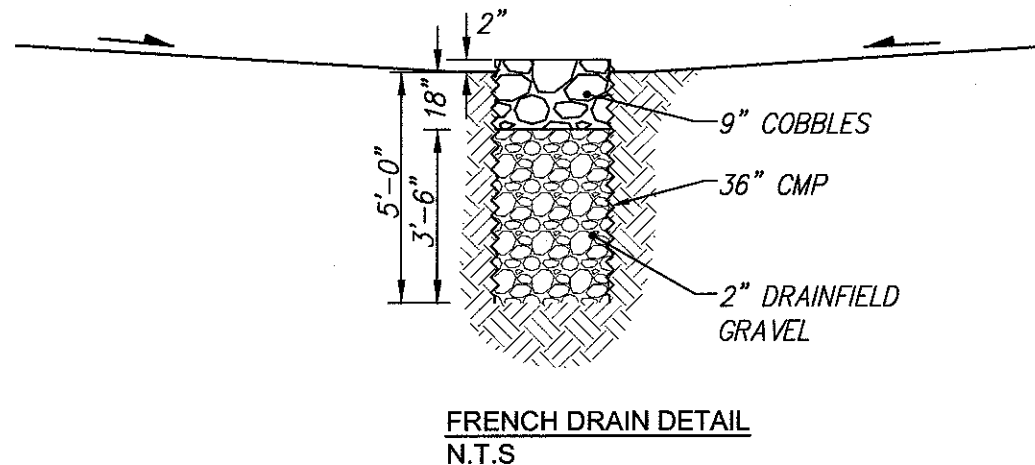
Curve Table					
Curve #	Length	Radius	Delta	Chord Length	Chord Direction
C1	11.47' (11.47')	80.00' (80.00')	8°12'53"	11.46'	N 85°50'18" E
C2	10.98' (10.98')	100.00' (100.00')	6°17'19"	10.97'	N 87°05'57" E
C3	66.36' (66.37')	303.32' (303.32')	12°32'08"	66.23'	N 82°23'02" W
C4	64.63' (66.16')	275.00' (275.00')	13°27'55"	64.48'	N 82°21'54" W
C5	44.45' (44.45')	156.62' (156.62')	16°15'38"	44.30'	N 07°58'08" E
C6	24.24' (24.25')	30.00' (30.00')	46°18'12"	23.59'	N 66°47'31" E
C7	39.28' {39.28'}	25.00' {25.00'}	90°00'54"	35.36'	S 45°05'35" E



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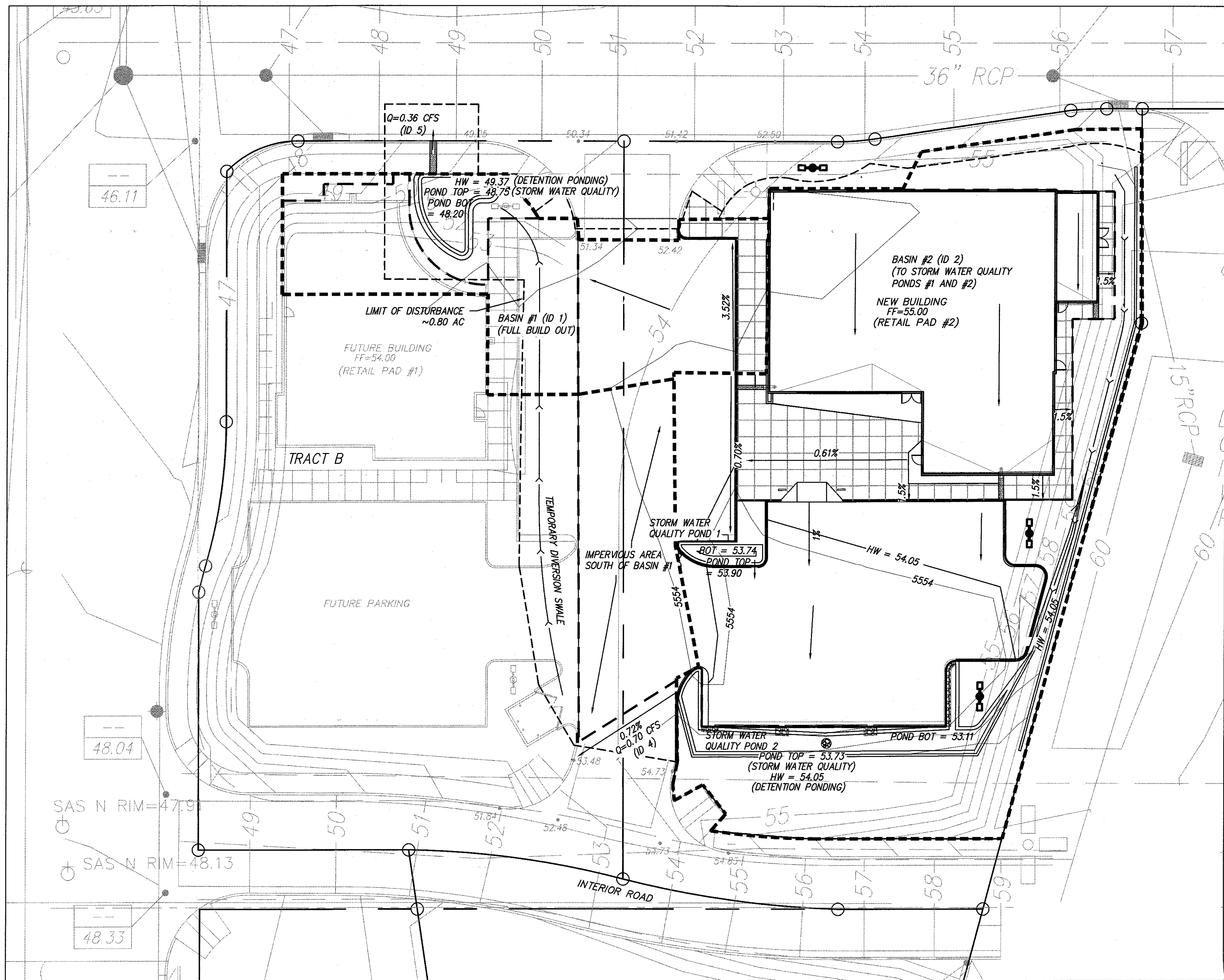
P.O. BOX 44414 RIO RANCHO, N.M. 87174
Phone (505) 896-3050 Fax (505) 891-0244

Sheet 2 of 2
181014



F:\A19JOBS\A19003 Ventura Swim Labs\GRADE & DRAIN\19003_G&D.dwg, Last saved by: Cor

Designed: <i>CP/DMG</i>	Drawn: <i>CP</i>	Checked: <i>DMG</i>	Sheet <i>C1</i>
Scale: <i>1" = 20'</i>	Date: <i>7/24/2019</i>	Job: <i>A19003</i>	



DRAINAGE REPORT

THE SITE IS WITHIN THE FURRS PASEO DEL NORTE PROJECT (ADDENDUM STAMP DATE 11/27/00, GREGORY JAMES KRENK, D. MARK GOODWIN & ASSOCIATES). THE FURRS PASEO DEL NORTE PROJECT HAS FOUR BASINS. BASIN 1X INCLUDES RETAIL PAD #1 AND RETAIL PAD #2. THIS PROJECT (SWIM LABS) IS RETAIL PAD #2. THE FURRS PASEO PROJECT INCLUDES A STORM DRAIN SYSTEM TO THE EAST THAT PONDS AND CONVEYS FLOWS INTO THE STORM DRAIN SYSTEM IN HOLLY AVENUE, THEREBY DIVERTING THE OFFSITE FLOW FROM THE EAST. THE SUBJECT SITE IS BOUNDED BY 8' CURBED ROADWAYS WITH STEEP SLOPES TO THE WEST ON THE NORTH AND SOUTH SIDES.

THE FURRS PASEO PROJECT ALLOCATES 0.93 CFS FOR PAD #2 AND 0.93 CFS FOR PAD #1 (WEST OF PAD #2) OF ALLOWABLE DISCHARGE. BOTH PROPERTIES (RETAIL PAD #1 AND #2) INCLUDE A PORTION OF THE INTERIOR ROAD WHICH IS INCLUDED IN BASIN 1 AND IS NOT INCLUDED IN THE ALLOWABLE DISCHARGE OF EACH PAD.

THE PROPOSED DESIGN FOR RETAIL PAD #2 INCLUDES CAPTURE OF 0.34" ON IMPERVIOUS AREAS TO MEET STORM WATER QUALITY REQUIREMENTS. AS SUCH THE POND ON THE SOUTH PORTION OF THE SITE RETAINS THIS VOLUME REQUIREMENT FROM ELEVATION 53.11" TO 53.73". FROM ELEVATION 53.73" TO 54.05", THE POND FUNCTIONS AS A DETENTION POND DURING THE 100YR, 6HR STORM WITH A PEAK DISCHARGE OF 0.70 CFS. DISCHARGE BEGINS AFTER STORM WATER QUALITY CAPTURE AT ELEVATION 53.73" THROUGH A 9" WIDE CURB OPENING AT THE WEST END OF POND #2. THE DISCHARGE FLOWS INTO THE INTERIOR ROAD (SOUTH OF SUBJECT SITE) THEN INTO VENTURA AVENUE. THE FURRS PASEO PROJECT EVALUATES A CAPACITY OF 35.2 CFS OF VENTURA AND A FLOW OF 24.54 CFS WITH FLOW RETAINED ON RETAIL PADS #1 AND #2. DISCHARGE OF 0.70 CFS INTO THE INTERIOR ROAD WILL ADD TO THE 24.54 FOR TOTAL OF 25.24 CFS OF 35.2 CFS CAPACITY IN VENTURA.

AS A PORTION OF RETAIL PAD #2 DRAINS TO RETAIL PAD #1 (BASIN #1 EAST OF THE PROPERTY LINE); THE DIFFERENCE IN ALLOWABLE DISCHARGE IS RE-ALLOCATED TO PAD #1 YIELDING APPROXIMATELY 1.16 CFS TOTAL (0.93+0.93-0.70).

THE PROPOSED DESIGN FOR RETAIL PAD #1 WILL INCLUDE CAPTURE OF 0.34" ON IMPERVIOUS AREAS TO MEET STORM WATER QUALITY REQUIREMENTS. IN THE TEMPORARY STATE, BEFORE RETAIL PAD #1 (TRACT B) IS DEVELOPED, THE NORTH POND WILL RECEIVE RUNOFF FROM IMPERVIOUS SURFACES FROM THE EAST PORTION OF BASIN #1 AND FROM THE SOUTH SIDE OF BASIN #1 AS DELINEATED. THE RUNOFF WILL BE DIVERTED TO THE NORTH POND VIA A TEMPORARY DIVERSION SWALE AS INDICATED. THE TEMPORARY IMPERVIOUS TRIBUTARY TO THE NORTH POND IS APPROXIMATELY 6074 SF. ONCE TRACT B IS DEVELOPED, THE PORTION SOUTH OF BASIN #1 OF IMPERVIOUS AREA WILL BE ACCOMMODATED BY ANOTHER POND IN THE SOUTHWEST CORNER OF TRACT B; HOWEVER, NEW IMPERVIOUS SURFACES WITHIN TRACT B WILL SHED TO THE NORTH POND. UNDER FULL DEVELOPEMENT (RETAIL PAD #1 AND RETAIL PAD #2), THE IMPERVIOUS TRIBUTARY TO THE NORTH STORM WATER QUALITY POND IS ANTICIPATED TO BE APPROXIMATELY 5547 SF.

THE NORTH POND RETAINS THE STORM WATER QUALITY VOLUME REQUIREMENT OF 6074 SF FROM ELEVATION 48.20' TO 48.75'. FROM ELEVATION 48.75' TO 49.37', THE NORTH POND FUNCTIONS AS A DETENTION POND DURING THE 100YR, 6HR STORM WITH A PEAK DISCHARGE OF 0.36 CFS. DISCHARGE BEGINS AFTER STORM WATER QUALITY CAPTURE AT ELEVATION 48.75' THROUGH A 1-11/16" WIDE OPENING INTO THE SIDEWALK CULVERT, INTO HOLLY AVENUE. AS THE NORTH DETENTION POND IS CONSTRUCTED IN ANTICIPATION OF A 100 YR EVENT, THE DETENTION POND DESIGN IS FOR FULL BUILD OUT CONDITIONS INSTEAD OF THE TEMPORARY STATE ABOVE ELEVATION 48.75.

RAINFALL WAS TAKEN FROM NOAA ATLAS 14 DATA AT THE LOCATION OF THE SITE. THE RAINFALL WAS MITIGATED BY 0.34" (STORM WATER QUALITY CAPTURE) FOR INPUT INTO AHYMO. THE DISCHARGE TABLES ARE BASED ON A 0.14' WIDE WEIR FOR THE TRACT B NORTH DETENTION POND AND A 0.75' WIDE WEIR FOR THE TRACT C SOUTH DETENTION POND. THE WEIR COEFFICIENT FOR BOTH WEIRS WAS 2.6.

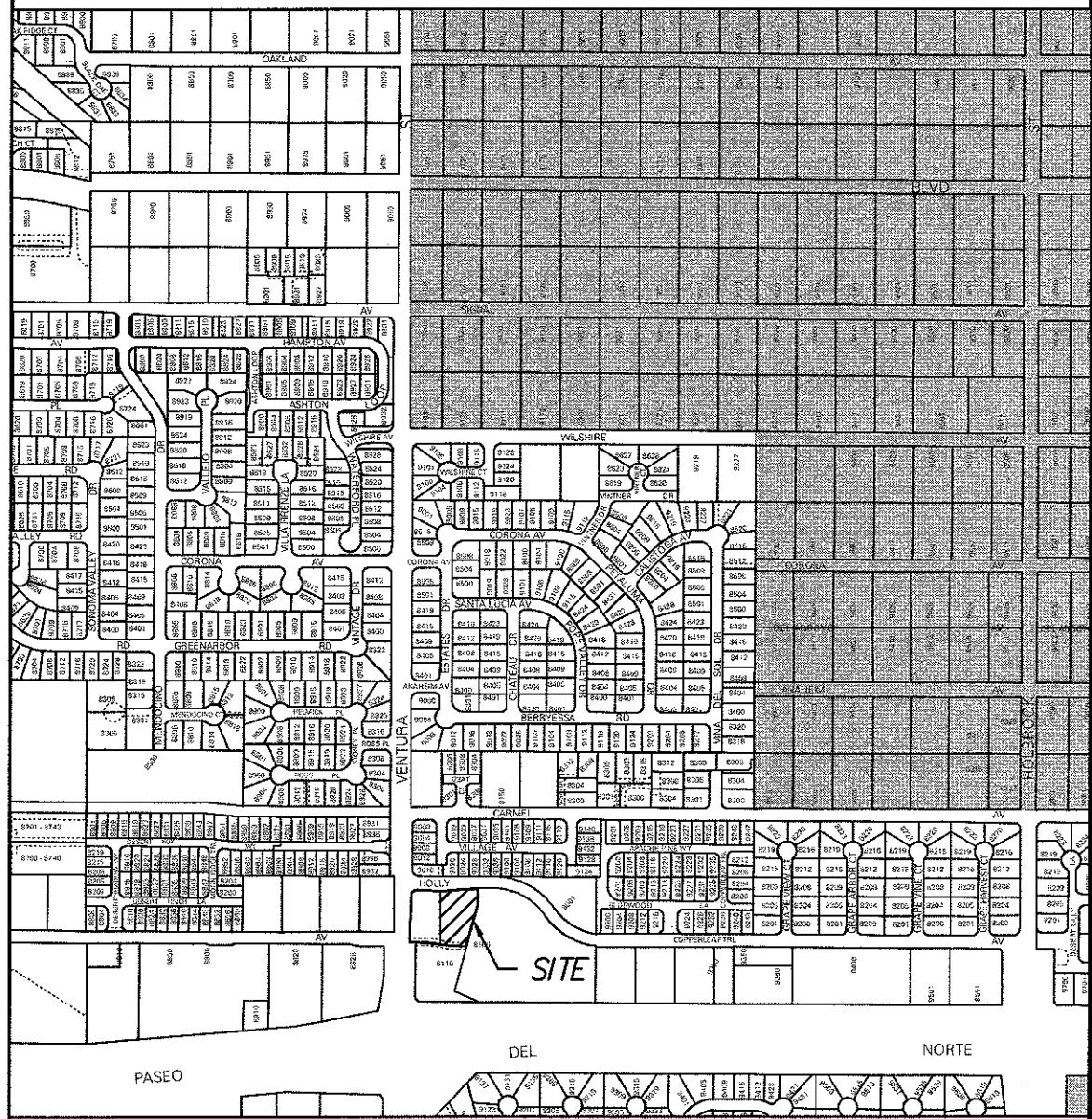
LEGAL DESCRIPTION

TRACT C BLOCK 19 NORTH ALBUQUERQUE ACRES
TRACT 3, UNIT 3
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO

ACS BENCHMARK

THE STATION MARK IS A STANDARD ACS BRASS TABLET STAMPED "-C21A-1978"
SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND. TO REACH THE STATION
FROM THE INTERCHANGE AT I-25 AND SAN MATEO BLVD. N.E., GO NORTH ON
THE EAST FRONTAGE ROAD FOR 1.5 MILES TO PASEO DEL NORTE. TURN RIGHT,
GO EAST ON PASEO DEL NORTE 2.8 MILES TO THE STATION ON THE LEFT.
X=415,503.35 Y=1,518,787.29 Z=5634.65

VICINITY MAP (ZONE ATLAS C-20-Z)



LEGEND (LINE TYPES)

- AHYMO BASIN DELINEATION
- IMPERVIOUS SURFACE DELINEATION

TRACT B: STORM WATER QUALITY POND

Proposed Impervious Area (SF)	6074
Storm Water Quality retention depth (inches):	0.34
Required Storm Water Quality Volume (CF):	172

Proposed Storm Water Quality Retention Capacity:	
Temporary Retention Pond	
Depth (FT):	0.55
Bottom (SF)	276
Top (SF)	354
Volume (CF)	173

STORM WATER QUALITY:

RECENT STORM WATER QUALITY REQUIREMENTS OF THE CITY OF ALBUQUERQUE RESULT IN CAPTURE OF 0.34 INCHES OF RAINFALL OVER IMPERVIOUS SURFACES.

THE REQUIRED STORM WATER QUALITY VOLUME IS FULLY CAPTURED WITHIN THE TRACT B STORM WATER QUALITY NORTH POND, AND THE TWO TRACT C STORM WATER QUALITY PONDS. ON TRACT C, WATER SHED FLOWS TO STORM WATER QUALITY POND #1 AND OVERFLOWS TO THE SIGNIFICANTLY LARGER STORM WATER QUALITY SOUTH POND #2.

THE FRENCH DRAIN IS A FEATURE OF THE DESIGN TO HASTEN INFILTRATION WITHIN TRACT C STORM WATER QUALITY SOUTH POND #2 WHEN RUNOFF IS CAPTURED FROM STORM EVENTS.

THE STORM WATER QUALITY PONDS ARE TO BE PERMANENT WITH THIS DEVELOPMENT. THE CONTRIBUTING BASIN OF IMPERVIOUS AREA TO TRACT B STORM WATER QUALITY POND OCCUPIES PORTIONS OF BOTH TRACT B AND TRACT C.

TRACT C: PONDS 1 AND 2

Proposed Impervious Area (SF)	17101
Storm Water Quality retention depth (inches):	0.34
Required Storm Water Quality Volume (CF):	485

POND 1	
Depth (FT):	0.16
Bottom (SF)	24
Top (SF)	121
Volume (CF)	12

POND 2	
Depth (FT):	0.62
Bottom (SF)	619
Top (SF)	926
Volume (CF)	479

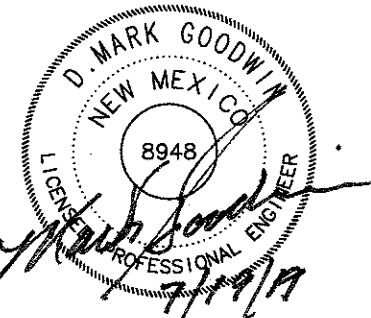
Total Storm Water Quality Capture (CF) (Ponds 1 and 2)	491
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D:\s16.66H

AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.01a, Rel: 01a RUN DATE (MON/DAY/YR) =07/24/2019
INPUT FILE = I9\A19003 - Ventura Swim Labs\Drainage\ahymo_SwimLabs_Pad2_TOPDETEN-C_IN.txt USER NO.= M-GoodwinMSiteA90075759

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION
START LOCATION				ALBUQUERQUE						TIME=	0.00
*S SWIM LABS 19003											
*S ONSITE PAD 2											
*S By Cory Pierce											
RAINFALL TYPE= 1 NOAA 14										RAIN6=	2.110
SEDIMENT BULK										PK BF =	1.06
*S BASIN #2 (Pad #2 South Detention Pond)											
COMPUTE NM HYD		202.00	2	0.00086	1.69	0.069	1.51448	1.530	3.079 PER IMP=	70.00	
ROUTE RESERVOIR		POND.OT	2	0.00086	0.70	0.097	2.12559	1.740	1.276 AC-FT=	0.028	
*S BASIN #1 (Pad #1 North Detention Pond)											
COMPUTE NM HYD		203.00	1	0.00023	0.52	0.021	1.73940	1.530	3.519 PER IMP=	85.00	
ROUTE RESERVOIR		POND.OT	1	0.00023	0.36	0.051	4.12119	1.640	2.433 AC-FT=	0.006	
FINISH											

D:\s10H



SWIM LABS GRADING & DRAINAGE PLAN

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: CP/DMG Drawn: CP Checked: DMG Sheet C2
Scale: 1" = 20' Date: 7/24/2019 Job: A19003