Planning Department Alan Varela, Director



November 21, 2024

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Cibola Loop Multifamily

Conceptual Grading Plan

Engineer's Stamp Date: 11/06/2024

Hydrology File: A13D011B

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 11/06/2024, the Conceptual Grading Plan is preliminarily approved for action by the Development Facilitation Team (DFT) on the Site Plan for a Building Permit.

PO Box 1293

PRIOR TO BUILDING PERMIT / WORK ORDER:

Albuquerque

1. Please submit a more detailed Grading & Drainage Plan to Hydrology for review and approval. This digital (.pdf) is emailed to PLNDRS@cabq.gov along with the Drainage Transportation Information Sheet.

NM 87103

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 (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

If you have any questions, please contact me at 505-924-3362 or <u>richardmartinez@cabq.gov</u>.

Sincerely,

Richard Martinez, P.E. Senior Engineer, Hydrology Planning Department

hilleull



City of Albuquerque Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

		Hydrology File #				
Legal Description:						
City Address, UPC, OR Parcel:						
Applicant/Agent:		_ Contact:				
Address:						
Email:						
Applicant/Owner:		Contact:				
Address:						
Email:						
TYPE OF DEVELOPMENT: Plat	(# of lots)		Single Femily Home			
THE OF DEVELOPMENT:	(# of lots)		Single Family Home			
			All other Developments			
RE-	SUBMITTAL:	YES	NO			
DEPARTMENT: TRANSPORT	ATION	HYDROLO	DGY/DRAINAGE			
Check all that apply under Both the Typ	e of Submittal and	d the Type o	 of Approval Sought:			
ΓΥΡΕ OF SUBMITTAL:	r	TYPE OF	APPROVAL SOUGHT:			
Engineering / Architect Certification		Pad Certification				
Conceptual Grading & Drainage Plan		Building Permit				
Grading & Drainage Plan, and/or Drain	age	Grading Permit				
Report		Paving Permit				
Drainage Report (Work Order)		SO-19 Permit				
Drainage Master Plan		Foundation Permit				
Conditional Letter of Map Revision (CL	OMR)	Certificate of Occupancy - Temp Perm				
Letter of Map Revision (LOMR)		Preliminary / Final Plat				
Floodplain Development Permit		Site Plan for Building Permit - DFT				
Traffic Circulation Layout (TCL) –		Work Order (DRC)				
Administrative Traffic Circulation Layout (TCL) – DFT Approval			of Financial Guarantee (ROFG)			
		CLOMR / LOMR				
Traffic Impact Study (TIS)			ıal TCL - DFT			
Street Light Layout		OTHER (SPECIFY)				
OTHER (SPECIFY)			` '			

DATE SUBMITTED:

Planning Department Alan Varela, Director



July 31, 2024

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

RE: Cibola Loop Multifamily

Conceptual Grading Plan

Engineer's Stamp Date: No Stamp Date

Hydrology File: A13D011B

Dear Mr. Bohannan:

PO Box 1293

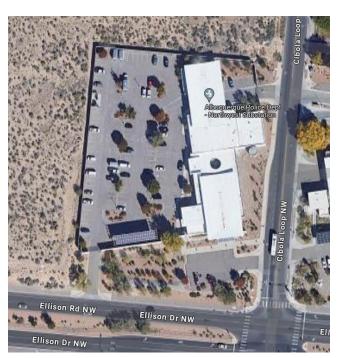
Based upon the information provided in your submittal received 07/31/2024, the Conceptual Grading Plan **is not** approved for action by the Development Facilitation Team (DFT) on Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

NM 87103

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1. Please show the existing CoA Police Station that is on Tract B-9E-2-A which has been there since 2011. I do not think that the shown contours are current and reflect the benchmark change. This should be updated.



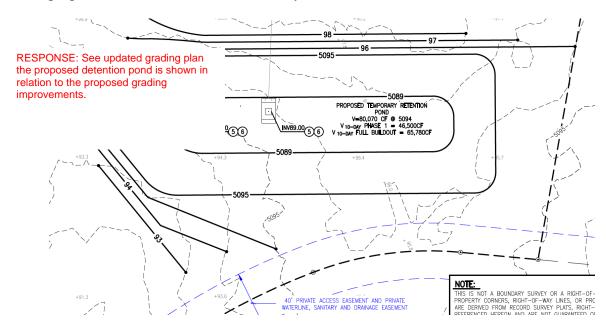
RESPONSE: It was determined that the previous contours were not current, a new topo survey was provided by a registered surveyor on 10/04/2024 that shows current contours around the perimeter of the police station.

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

2. Please show the future development of the CoA Cibola Loop Multigenerational Center on Tract A-2 (A13D025). Please note that there is a proposed retention pond near the proposed access road. This is currently under construction.



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3. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided.

RESPONSE: Benchmark information provided on sheet GR-1 NAVD 88 ACS Monument "6_A13"

- 4. Please provide the legal description of the property. RESPONSE: Legal description added to sheet GR-1.
- 5. This site will need a Sensitive Lands Analysis per the IDO (5-2(C)). RESPONSE: Attached is the sensitive lands analysis, no sensitive features found.
- 6. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event. A statement "Refer to pervious Grading & Drainage Report HydroTrans A13D011B." is not acceptable.

 RESPONSE: See attached GR-2 and GR-3 (existing and proposed basin maps) the method of analysis used was ahymo and
- Please provide calculations for the proposed detention pond.
 RESPONSE: The method of analysis used was ahymo and those calculations are attached.
- 8. Please provide a section of the proposed detention pond showing the top of bank and the bottom of bank. Also, please show the location of the maintenance ramp.

 RESPONSE: See cross section A on sheet GR-3.
- 9. The proposed pond itself looks funny and appears to be just a vee shaped. There will not be much volume in this design. Please correct with the calculation that were requested in Comment #5.

RESPONSE: Volume is sufficient to reduce developed flows below historic as shown on the calculations.

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

10. Please provide the calculation for the required Stormwater Quality Pond per the DPM Article 6-12. To calculate the required SWQV, multiply the impervious area draining to the BMP by 0.42 inches for new development sites.

RESPONSE: See sheet GR-3 storm water quality calculations table.

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 (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

RESPONSE: Aknoledged

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

Renée C. Brissette

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Ms. Jolene Wolfley City of Albuquerque – DFT 600 2nd Street NW Albuquerque NM 87102

RE: CIBOLA LOOP MULTIFAMILY

CIBOLA LP NW ALBUQUERQUE 87114

TRACT B-1 BULK PLAT TRACTS A-1, A-2, B-1 & C-1 CIBOLA LOOP SUBDIVISION

CONT 5.1785 AC

SENSITIVE LANDS ANALYSIS

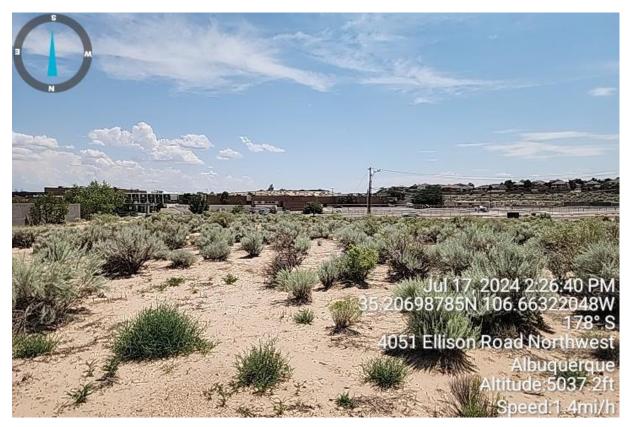
Dear Ms. Wolfley:

This report outlines the constraints identified within the proposed site plan being comprised of TRACT B-1 BULK PLAT TRACTS A-1, A-2, B-1 & C-1 CIBOLA LOOP SUBDIVISION located along Ellison Rd Albuquerque, NM 87114 (the "subject site"). The subject site is zoned Mixed-Use Low Intensity (MX-L). and lies west of the Rio Grande River. The site is currently vacant with desert shrubs and grasses. A portion of a large detention pond is located along the southwest corner of the site, power poles and overhead electrical lines to the south and a police station to the east.

Tierra West, LLC has performed a Sensitive Lands Analysis report as required under the Integrated Development Ordinance (IDO) Section 5-2(C) for new subdivisions of land, documenting the following:

Item:	Presence:	Commentary:
Floodplains and Flood Hazard	Area of	The site is in an area with minimal flood risk
	minimal flood	
	hazard	
Steep Slopes	None	The overall site is not in an area with steep
		slopes
Unstable Soils	None	Based on USDS Web Soil Survey Data the site
		soils are mainly Loamy fine Sand
Wetlands (Constant supply of	None	No areas of standing water present on the site
water)		
Arroyo	None	No arroyos were identified
Irrigation Facilities	None	No irrigation facilities were identified
Escarpment	None	No areas of escarpment were identified
Large stands of mature trees	None	No large mature trees present
Archeological sites	None	No archaeological issues have been uncovered.



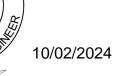




In conclusion, none of the above features have been determined to be present on this site. Various attached documents along with the above photos of the site support our findings of no onsite sensitive land issues.

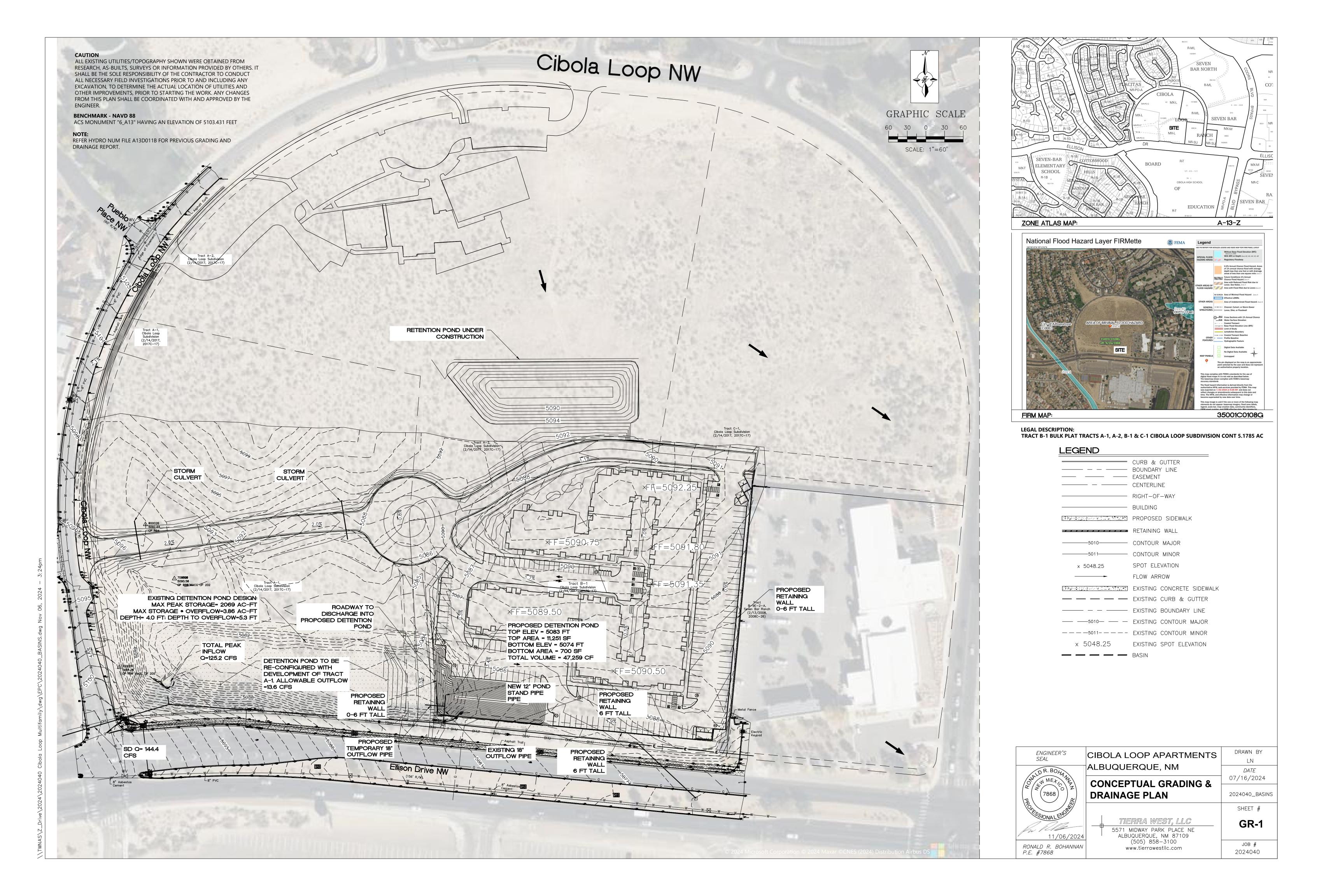
If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

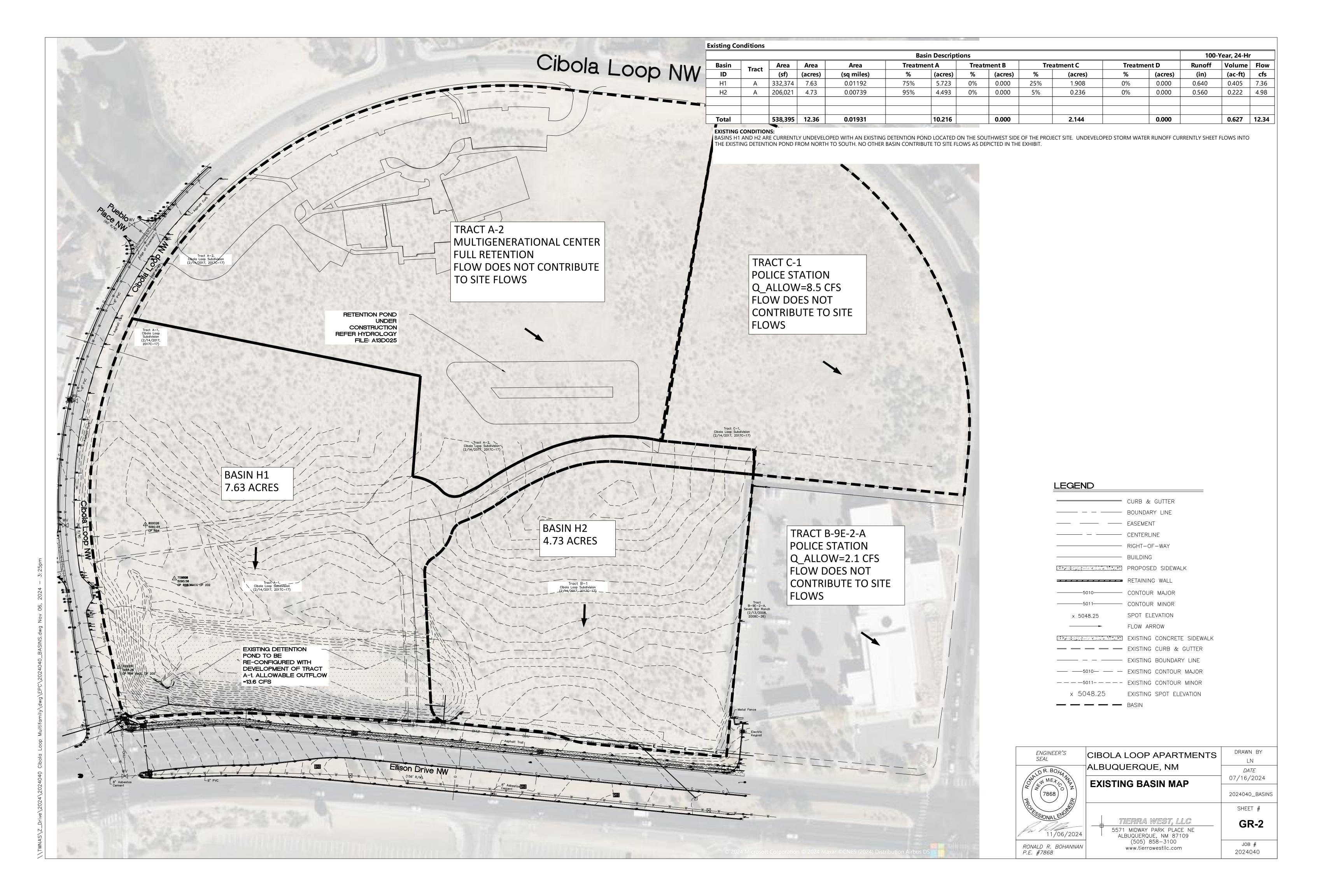
Sincerely,

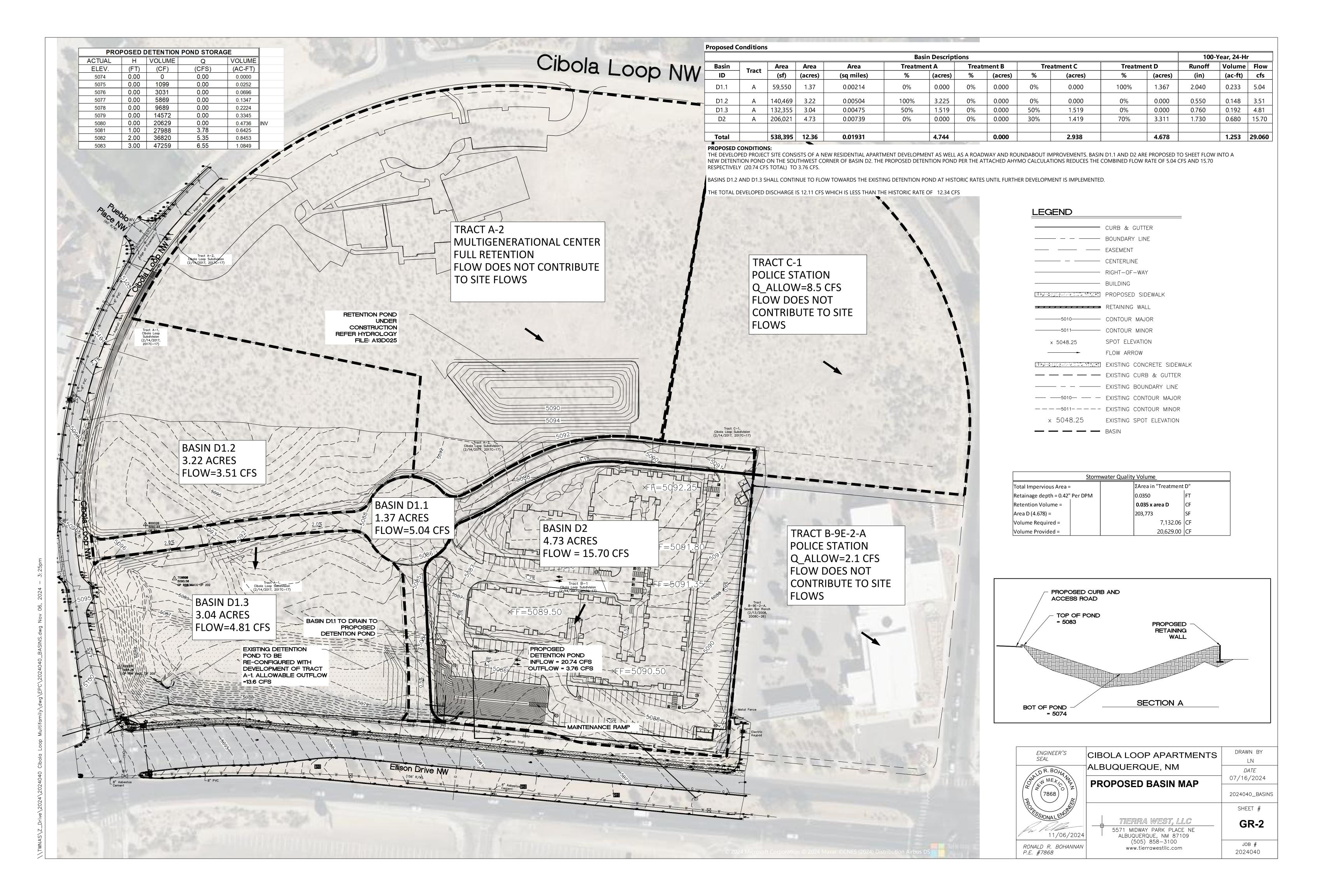


Ronald R. Bohannan, P.E

JN: 2024040 RRB/Luis







AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.01a, Rel: 01a RUN DATE (MON/DAY/YR) = 11/06/2024 INPUT FILE = NAS\Z_Drive\2024\2024040 Cibola Loop Multifamily\Drainage\2024040-Hymo.txt USER NO.= AHYMO_Temp_User:20122010

COMMAND I	HYDROGRAPH DENTIFICATION	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 RAINFALL TYPE= COMPUTE NM HYD ADD HYD D1.1 ANI ROUTE RESERVOIR FINISH		- - - - - - 1& 4	1 1 2 3 4 5 6	0.01192 0.00739 0.00214 0.00504 0.00475 0.00739 0.00953 0.00953	7.36 4.98 5.04 3.51 4.81 15.70 20.74	0.405 0.222 0.233 0.148 0.192 0.680 0.913 0.913	0.63699 0.56338 2.03792 0.54897 0.75760 1.72651 1.79634 1.79634	1.650 1.500 1.500 1.500 1.500 1.500 1.500	1.054 3.681 1.088 1.581 3.319 3.400	TIME= 0.00 RAIN6= 2.290 PER IMP= 0.00 PER IMP= 100.00 PER IMP= 0.00 PER IMP= 0.00 PER IMP= 70.00 AC-FT= 0.641

```
AHYMO PROGRAM (AHYMO-S4)
RUN DATE (MON/DAY/YR) = 11/06/2024
                                                  - Version: S4.01a - Rel: 01a
            START TIME (HR:MIN:SEC) = 14:08:05
                                                  USER NO. = AHYMO_Temp_User:20122010
            INPUT FILE = \\TWNAS\Z_Drive\2024\2024040 Cibola Loop
Multifamily\Drainage\2024040-Hymo.txt
    **********
                   Cibola Loop Apartments
                                 *********
               100-YEAR 24-HR STORM (UNDER EXISTING CONDITIONS)
   ********************
   *NOAA ATLAS 14, VOLUME 1, VERSION 5 *LATITUDE: 35.2070°
                                                                  *
                                                                  *
   *LONGITUDE: -106.6640°
*ELEVATION: 5091.00 FT
                                                                  *
   *************
                       TIME=0.0
   START
   RAINFALL
                       TYPE=1 RAIN QUARTER=0.0 IN
                       RAIN ONE=1.76 IN RAIN SIX=2.29 IN
                       RAIN DAY=2.62 IN DT=0.15 HR
                  6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM &
AZ) - D1
                         0.150000 HOURS
                                             END TIME =
                                                            6.000000 HOURS
                    0.0000
                            0.0111
                                    0.0245
                                           0.0543
                                                   0.0934
                                                           0.1362
                                                                   0.1872
                    0.2698
                            0.4198
                                    0.8074
                                            1.5512
                                                   1.7813
                                                           1.8967
                                                                   1.9646
                            2.0481
                                    2.0742
                                            2.0892
                                                           2.1159
                    2.0114
                                                   2.1030
                                                                   2.1280
                            2.1500
                                           2.1698
                                                           2.1882
                    2.1393
                                    2.1601
                                                   2.1792
                                                                   2.1969
                    2.2054
                            2.2136
                                    2.2215
                                            2.2292
                                                   2.2367
                                                           2.2440
                                                                   2.2511
                    2.2580
                            2.2647
                                    2.2712
                                           2.2776
                                                   2.2839
                                                           2.2900
   *
   * EXISTING BASIN H1
                       ID=1 HYD NO=H1 AREA=0.01192 SQ MI
   COMPUTE NM HYD
                       PER A=75.00 PER B=0.00 PER C=25.00 PER D=0.00
                       TP=0.29 HR MASS RAINFALL=-1
                           TP = 0.290000HR
            0.328505HR
                                              K/TP RATIO = 1.132777
                                                                         SHAPE CONSTANT, N
  3.124531
        UNIT PEAK =
                      11.995
                                CFS
                                     UNIT VOLUME =
                                                     0.9970
                                                                        291.83
                                                                                    P60 =
                                                                  B =
1.7600
        AREA =
                   0.011920 SQ MI
                                     IA =
                                           0.57500 INCHES
                                                             INF =
                                                                     1.46000 INCHES PER
HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000
   PRINT HYD
                       ID=1 CODE=1
                                           HYDROGRAPH FROM AREA H1
       RUNOFF VOLUME =
                           0.63699 INCHES
                                                     0.4050 ACRE-FEET
       PEAK DISCHARGE RATE =
                                  7.36 CFS AT
                                                 1.650 HOURS
                                                               BASIN AREA = 0.0119 SQ. MI.
   * EXISTING BASIN H2
                       ID=1 HYD NO=H2 AREA=0.00739 SQ MI
   COMPUTE NM HYD
                       PER A=95.00 PER B=0.00 PER C=5.00 PER D=0.00
                       TP=0.21 HR MASS RAINFALL=-1
            0.257365HR
                          TP = 0.210000HR
                                              K/TP RATIO = 1.225546
        K =
                                                                         SHAPE CONSTANT, N
  2.904745
        UNIT PEAK =
                      9.6411
                                CFS
                                     UNIT VOLUME =
                                                     0.9850
                                                                        273.97
                                                                                   P60 =
                                                                  B =
1.7600
        AREA =
                   0.007390 SQ MI
                                     IA =
                                           0.63500 INCHES
                                                             INF =
                                                                     1.62800 INCHES PER
```

HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA H2

0.56338 INCHES 0.2220 ACRE-FEET RUNOFF VOLUME = 4.98 CFS AT 1.500 HOURS BASIN AREA = 0.0074 SQ. MI. PEAK DISCHARGE RATE =

100-YEAR 24-HR STORM (UNDER PROPOSED CONDITIONS)

***************** *

* PROPOSED BASIN D1.1

ID=1 HYD NO=D11 AREA=0.00214 SQ MI COMPUTE NM HYD

PER A=0.00 PER B=0.00 PER C=0.00 PER D=100.00

TP=0.18 HR MASS RAINFALL=-1

K = 0.098100HRTP = 0.180000HRK/TP RATIO = 0.545000SHAPE CONSTANT, N 7.106428

UNIT PEAK = 6.2568 CFS UNIT VOLUME = 1.053 B = 526.28 P60 =1.7600

0.002140 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER AREA = HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA D11

2.03792 INCHES RUNOFF VOLUME = 0.2326 ACRE-FEET PEAK DISCHARGE RATE = 5.04 CFS AT 1.500 HOURS BASIN AREA = 0.0021 SQ. MI.

* PROPOSED BASIN D1.2

COMPUTE NM HYD ID=2 HYD NO=D12 AREA=0.00504 SQ MI

PER A=100.00 PER B=0.00 PER C=0.00 PER D=0.00

TP=0.20 HR MASS RAINFALL=-1

K = 0.249748HRTP = 0.200000HRK/TP RATIO = 1.248739SHAPE CONSTANT, N 2.856080

UNIT PEAK = 6.8009 CFS UNIT VOLUME = 0.9815 B = 269.88 P60 =1.7600

HOUR

0.005040 SQ MI 0.65000 INCHES 1.67000 INCHES PER AREA = IA =INF =

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000

PRINT HYD ID=2 CODE=1

HYDROGRAPH FROM AREA D12

RUNOFF VOLUME = 0.54897 INCHES 0.1476 ACRE-FEET PEAK DISCHARGE RATE = 3.51 CFS AT 1.500 HOURS BASIN AREA = 0.0050 SQ. MI.

ID=3 HYD NO=D13 AREA=0.00475 SQ MI COMPUTE NM HYD

PER A=50.00 PER B=0.00 PER C=50.00 PER D=0.00

^{*} PROPOSED BASIN D1.3

TP=0.20 HR MASS RAINFALL=-1

K/TP RATIO = 1.016815K = 0.203363HRTP = 0.200000HRSHAPE CONSTANT, N 3.471394 7.5582 UNIT VOLUME = 0.9946318.24 P60 =UNIT PEAK = CFS B = 1.7600 AREA = 0.004750 SQ MI IA = 0.50000 INCHESINF = 1.25000 INCHES PERHOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000 PRINT HYD ID=3 CODE=1

HYDROGRAPH FROM AREA D13

RUNOFF VOLUME = 0.75760 INCHES = 0.1919 ACRE-FEET
PEAK DISCHARGE RATE = 4.81 CFS AT 1.500 HOURS BASIN AREA = 0.0048 SQ. MI.

* PROPOSED BASIN D2

K = 0.098100HRTP = 0.180000HRK/TP RATIO = 0.545000SHAPE CONSTANT, N 7.106428 UNIT VOLUME = UNIT PEAK = 15.125 CFS 1.054 B = 526.28 P60 =1.7600 0.005173 SQ MI IA = 0.10000 INCHESINF = 0.04000 INCHES PERAREA = HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000

K = 0.141280HRTP = 0.180000HRK/TP RATIO = 0.784891SHAPE CONSTANT, N 4.574880 UNIT PEAK = 4.8261 CFS UNIT VOLUME = 1.013 B = 391.84 P60 =1.7600 0.35000 INCHES 0.83000 INCHES PER AREA = 0.002217 SQ MI IA = INF = HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.150000 PRINT HYD ID=4 CODE=1

HYDROGRAPH FROM AREA D2

RUNOFF VOLUME = 1.72651 INCHES = 0.6805 ACRE-FEET PEAK DISCHARGE RATE = 15.70 CFS AT 1.500 HOURS BASIN AREA = 0.0074 SQ. MI.

ADD HYD ID=5 HYD = 100.1 ID I = 1 ID II = 4
PRINT HYD ID=5 CODE=1

PARTIAL HYDROGRAPH 100.10

RUNOFF VOLUME = 1.79634 INCHES = 0.9130 ACRE-FEET
PEAK DISCHARGE RATE = 20.74 CFS AT 1.500 HOURS BASIN AREA = 0.0095 SQ. MI.

*

ROUTE RESERVOIR ID=6 HYD NO=POND.1 INFLOW ID=5 CODE=1

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.0000	0.0000	74.00
1.0000	0.4736	80.00
3.7800	0.6425	81.00
5.3500	0.8453	82.00
6.5500	1.0849	83.00

* * * * * * * * * * * * * * * * *

* * * *	* * *	, , , , ,	* * * *	, , , ,	
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)	
0.00 0.15 0.30 0.45 0.75 0.90 1.05 1.20 1.50 1.80 1.95 1.80 1.95 2.45 2.70 2.45 3.45 3.45 3.45 4.65 4.80 4.95 5.10 5.25 6.15 6.45 6.65 6.75 7.20 7.20 7.35 7.65 7.20 7.20 7.35 7.65 7.20 7.20 7.35 7.65 7.65 7.65 7.65 7.65 7.65 7.65 7.6	0.00 0.00 0.00 0.00 0.00 0.57 1.09 1.85 3.47 9.68 20.74 13.73 6.82 4.06 2.69 1.90 1.32 0.56 0.42 0.32 0.22 0.19 0.17 0.16 0.15 0.15 0.15 0.15 0.15 0.16 0.17 0.17 0.17 0.17 0.18 0.19 0.17 0.17 0.17 0.18 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19	74.00 74.00 74.00 74.00 74.00 74.00 74.04 74.17 74.40 75.80 78.11 80.29 80.85 80.99 80.97 80.85 80.62 80.48 80.36 80.25 80.16 80.08 80.01 79.89 79.76 79.64 79.52 79.40 79.52 79.40 79.52 79.40 79.76 78.96 78.85 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 78.65 78.75 77.10 77.11 77.03 77.45 77.103 76.95 76.87	0.000 0.000 0.000 0.000 0.000 0.004 0.014 0.031 0.063 0.142 0.324 0.523 0.618 0.641 0.637 0.621 0.601 0.578 0.555 0.534 0.516 0.500 0.487 0.465 0.445 0.445 0.445 0.445 0.445 0.4465 0.447 0.468 0.400 0.391 0.383 0.375 0.367 0.360 0.383 0.375 0.367 0.363 0.318 0.310 0.326 0.318 0.310 0.327 0.272 0.265 0.252 0.245 0.252 0.245 0.233 0.227 VOLUME	0.00 0.00 0.00 0.00 0.01 0.03 0.07 0.13 0.68 1.81 3.37 3.76 3.69 3.43 3.09 2.72 2.34 2.00 1.70 1.44 1.21 1.03 0.98 0.96 0.94 0.92 0.90 0.88 0.84 0.83 0.79 0.78 0.77 0.78 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	

(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
8.40 8.55 8.70 9.35 9.35 9.35 9.05 10.25 10.35 10.35 11.45 11.57 11.45 11.57 11.45 11.30 12.45 12.30 13.35 13.35 13.35 14.40 14.55 14.70 14.85 15.60 15.75 16.65	0.00 0.00	76.80 76.73 76.65 76.59 76.52 76.33 76.21 76.10 76.99 75.89 75.75.66 75.53 75.42 75.42 75.33 75.31 75.	0.221 0.215 0.210 0.204 0.199 0.189 0.184 0.179 0.174 0.170 0.166 0.161 0.157 0.145 0.141 0.138 0.134 0.131 0.127 0.124 0.121 0.118 0.115 0.101 0.098 0.096 0.093 0.091 0.088 0.088 0.088 0.088 0.088 0.080 0.077 0.075 0.074 0.075 0.075 0.074 0.075	0.47 0.45 0.44 0.43 0.42 0.41 0.39 0.38 0.37 0.36 0.35 0.31 0.30 0.29 0.26 0.27 0.26 0.27 0.22 0.21 0.20 0.19 0.19 0.19 0.19 0.19 0.19 0.11 0.11 0.11
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
16.80 16.95 17.10 17.25 17.40 17.55 17.70 17.85 18.00 18.15	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	74.65 74.63 74.61 74.60 74.58 74.57 74.55 74.55 74.54 74.52 74.51	0.051 0.050 0.048 0.047 0.046 0.045 0.044 0.042 0.041	0.11 0.10 0.10 0.10 0.10 0.09 0.09 0.09

18.30 18.45 18.60 18.75 18.90 19.05 19.20 19.35 19.50 19.80 19.80 19.80 19.85 20.40 20.25 20.40 20.55 21.30 21.45 21.45 21.60 21.75 21.90 22.05 22.05 22.65 22.80 22.95 23.50 23.55 23.70 23.85 24.00 24.15 24.60 24.75 24.90 25.05	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	74.50 74.48 74.47 74.46 74.45 74.41 74.40 74.39 74.38 74.36 74.37 74.36 74.37 74.36 74.37 74.32 74.32 74.32 74.29 74.29 74.29 74.27 74.27 74.27 74.27 74.27 74.27 74.27 74.27 74.21 74.22 74.22 74.22 74.22 74.22 74.22 74.21 74.21 74.22 74.21 74.21 74.21 74.22 74.22 74.22 74.22 74.21 74.21 74.21 74.22 74.21 74.21 74.21 74.21 74.21 74.22 74.22 74.21 74.21 74.21 74.21 74.22 74.21 74.22 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.22 74.22 74.22 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.22 74.22 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.22 74.22 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.21 74.22 74.22 74.21 74.11 74.11 74.11 74.11 74.11 74.11 74.11 74.11 74.11 74.11	0.039 0.038 0.037 0.036 0.035 0.034 0.034 0.033 0.032 0.031 0.030 0.029 0.029 0.028 0.027 0.026 0.025 0.024 0.023 0.023 0.023 0.022 0.021 0.021 0.020 0.020 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.015 0.017 0.017 0.017 0.017 0.015 0.015 0.015 0.015 0.014 0.013 0.013 0.013 0.013 0.012 0.012	0.08 0.08 0.08 0.07 0.07 0.07 0.07 0.06 0.06 0.06 0.06
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
25.20 25.35 25.50 25.65 25.80 25.95 26.10 26.55 26.40 26.55 26.70 26.85 27.00 27.15 27.30 27.45 27.60 27.75 27.90 28.05 28.20 28.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	74.15 74.14 74.14 74.13 74.13 74.13 74.12 74.12 74.12 74.11 74.11 74.11 74.11 74.10 74.10 74.10 74.09 74.09 74.09 74.09	0.012 0.011 0.011 0.011 0.010 0.010 0.010 0.010 0.009 0.009 0.009 0.008 0.008 0.008 0.008 0.008 0.007 0.007	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02

```
0.00
                           74.08
                                       0.007
   28.50
                                                    0.01
   28.65
                                       0.006
                 0.00
                           74.08
                                                    0.01
                 0.00
                           74.08
   28.80
                                       0.006
                                                    0.01
   28.95
                 0.00
                           74.08
                                       0.006
                                                    0.01
                                       0.006
   29.10
                 0.00
                           74.08
                                                    0.01
   29.25
                 0.00
                           74.07
                                       0.006
                                                    0.01
   29.40
                           74.07
                                       0.006
                 0.00
                                                    0.01
   29.55
                           74.07
                                       0.006
                 0.00
                                                    0.01
   29.70
                 0.00
                           74.07
                                       0.005
                                                    0.01
   29.85
                 0.00
                           74.07
                                       0.005
                                                    0.01
   30.00
                 0.00
                           74.06
                                       0.005
                                                    0.01
   30.15
                 0.00
                           74.06
                                       0.005
                                                    0.01
                           74.06
   30.30
                 0.00
                                       0.005
                                                    0.01
   30.45
                 0.00
                           74.06
                                       0.005
                                                    0.01
                                       0.005
   30.60
                 0.00
                           74.06
                                                    0.01
   30.75
                 0.00
                           74.06
                                       0.004
                                                    0.01
   30.90
                 0.00
                           74.06
                                       0.004
                                                    0.01
                           74.05
   31.05
                 0.00
                                       0.004
                                                    0.01
                 0.00
                           74.05
                                       0.004
   31.20
                                                    0.01
                 0.00
   31.35
                           74.05
                                       0.004
                                                    0.01
   31.50
                 0.00
                           74.05
                                       0.004
                                                    0.01
                 0.00
                                       0.004
                           74.05
   31.65
                                                    0.01
   31.80
                 0.00
                           74.05
                                       0.004
                                                    0.01
   31.95
                 0.00
                           74.05
                                       0.004
                                                    0.01
                                       0.004
                 0.00
   32.10
                           74.04
                                                    0.01
   32.25
                 0.00
                           74.04
                                       0.003
                                                    0.01
   32.40
                                       0.003
                 0.00
                           74.04
                                                    0.01
   32.55
                 0.00
                           74.04
                                       0.003
                                                    0.01
                           74.04
   32.70
                 0.00
                                       0.003
                                                    0.01
   32.85
                 0.00
                           74.04
                                       0.003
                                                    0.01
   33.00
                 0.00
                           74.04
                                       0.003
                                                    0.01
                                       0.003
                 0.00
                           74.04
   33.15
                                                    0.01
   33.30
                 0.00
                           74.04
                                       0.003
                                                    0.01
   33.45
                 0.00
                           74.04
                                       0.003
                                                    0.01
              INFLOW
                                     VOLUME
                                                OUTFLOW
   TIME
                          ELEV
   (HRS)
               (CFS)
                          (FEET)
                                     (AC-FT)
                                                (CFS)
   33.60
                 0.00
                           74.03
                                       0.003
                                                    0.01
   33.75
                 0.00
                           74.03
                                       0.003
                                                    0.01
                           74.03
   33.90
                 0.00
                                       0.003
                                                    0.01
   34.05
                 0.00
                                       0.003
                           74.03
                                                    0.01
   34.20
                 0.00
                           74.03
                                       0.002
                                                    0.01
   34.35
                 0.00
                                       0.002
                           74.03
                                                    0.01
   34.50
                 0.00
                           74.03
                                       0.002
                                                    0.00
                           3.756 CFS - PEAK OCCURS AT HOUR 1.95
PEAK DISCHARGE =
MAXIMUM WATER SURFACE ELEVATION = 80.991

MAXIMUM STORAGE = 0.6411 AC-FT INCREMENTAL TIME= 0.150000HRS
```

HYDROGRAPH FROM AREA POND.1

```
RUNOFF VOLUME = 1.79634 INCHES = 0.9130 ACRE-FEET
PEAK DISCHARGE RATE = 3.76 CFS AT 1.950 HOURS BASIN AREA = 0.0095 SQ. MI.
```

**

FINISH

PRINT HYD

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 14:08:05

ID=6 CODE=1