

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

February 5, 2021

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

RE: 2310 Edna Ave. NW
Grading and Drainage Plan
Engineer's Stamp Date: 01/23/21
Hydrology File: J13D212

Dear Mr. Soule:

Based upon the information provided in your submittal received 01/25/2021, the Grading and Drainage Plan is approved for Grading Permit.

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter and the pad certification approval letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	Q100 DISCHARGED	
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
EXISTING LOT	5000.00	0.115	55%	0.0631	25%	0.029	20%	0.023	0%	0.000	0.23	0.23	
PROP DETAINED BASIN A	4498.00	0.103	0%	0	26%	0.027	32%	0.033	42%	0.043	0.34	0.16	
PROP FREE DISC BASIN B	502.00	0.012	0%	0	6%	0.001	10%	0.0012	84%	0.010	0.05	0.05	
TOTAL PER LOT													0.2

** CALCULATION IS FOR EACH IDENTICAL LOT

* SITE DISCHARGE CALCULATED UTILIZING AHYMO. THE DETENTION PONDS HAVE DIFFERENT Tp THEREFORE THE CUMULATIVE DISCHARGE IS SLIGHTLY LESS THAT THE SUMMATION OF EACH BASIN

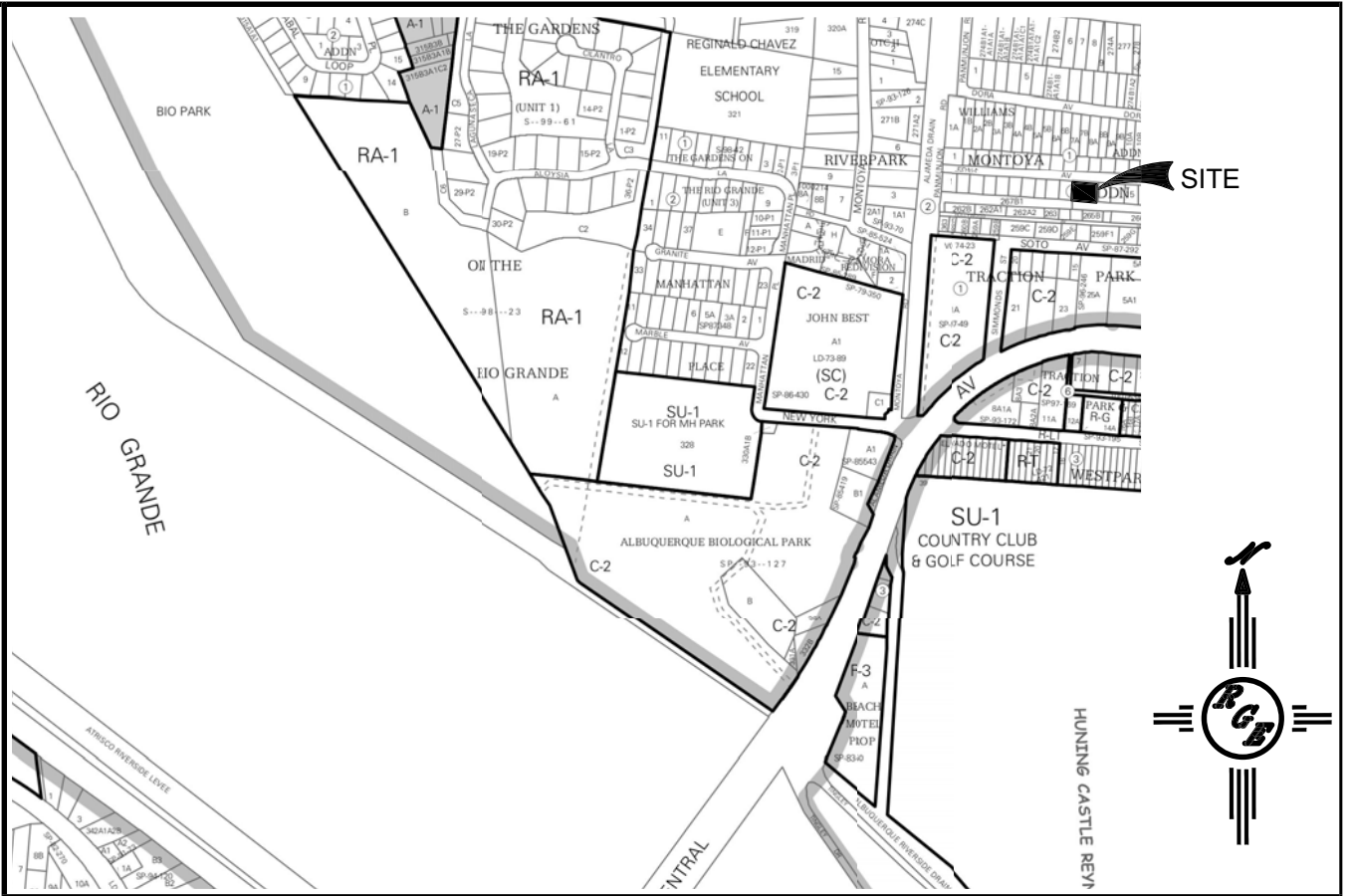
Narrative
The subject property is located within a fully developed area of NW Albuquerque. All down stream drainage improvements have been completed. This is a redevelopment of an site that discharges 0.23 cfs to the surrounding properties. The proposed improvements consist of 2 onsite basins, Basin B free discharges 0.05 cfs to Edna, Basin A is routed through a detention pond discharging to Edna. The total developed site discharge is 0.20 cfs to townier. The site discharges less than historical to the edna, where the flow is captured by an adjacent public storm drain.

EROSION CONTROL NOTES:

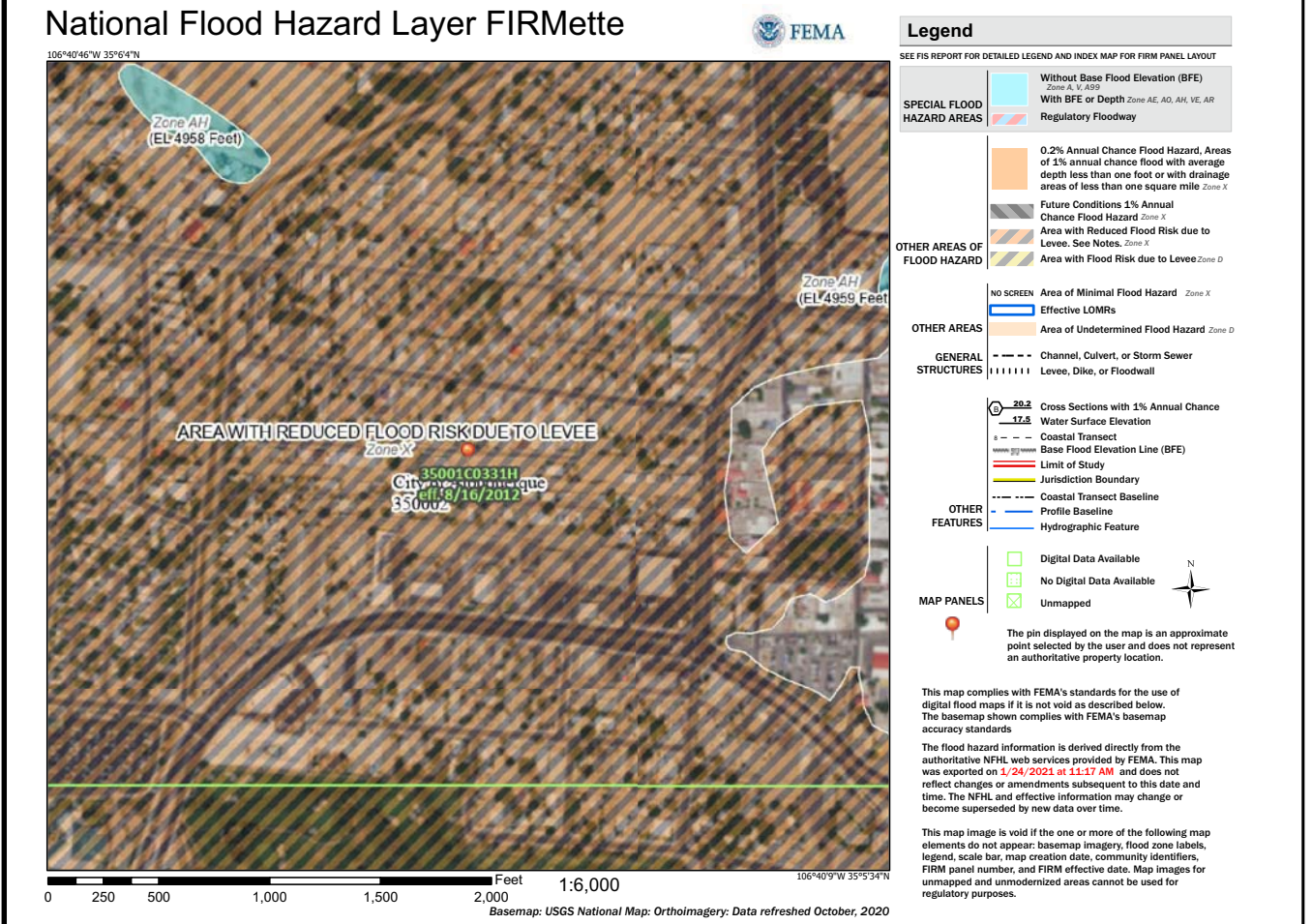
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

Private Drainage Facilities within City Right-of-Way
Notice to Contractor
(Special Order 19 ~ "SO-19")

- Build sidewalk culvert per COA STD DWG 2236.
- Contact Storm Drain Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact **New Mexico One Call, dial "811"** (or (505) 260-1990) for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets may be required on a 24-hour basis.
- Contractor must contact Storm Drain Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

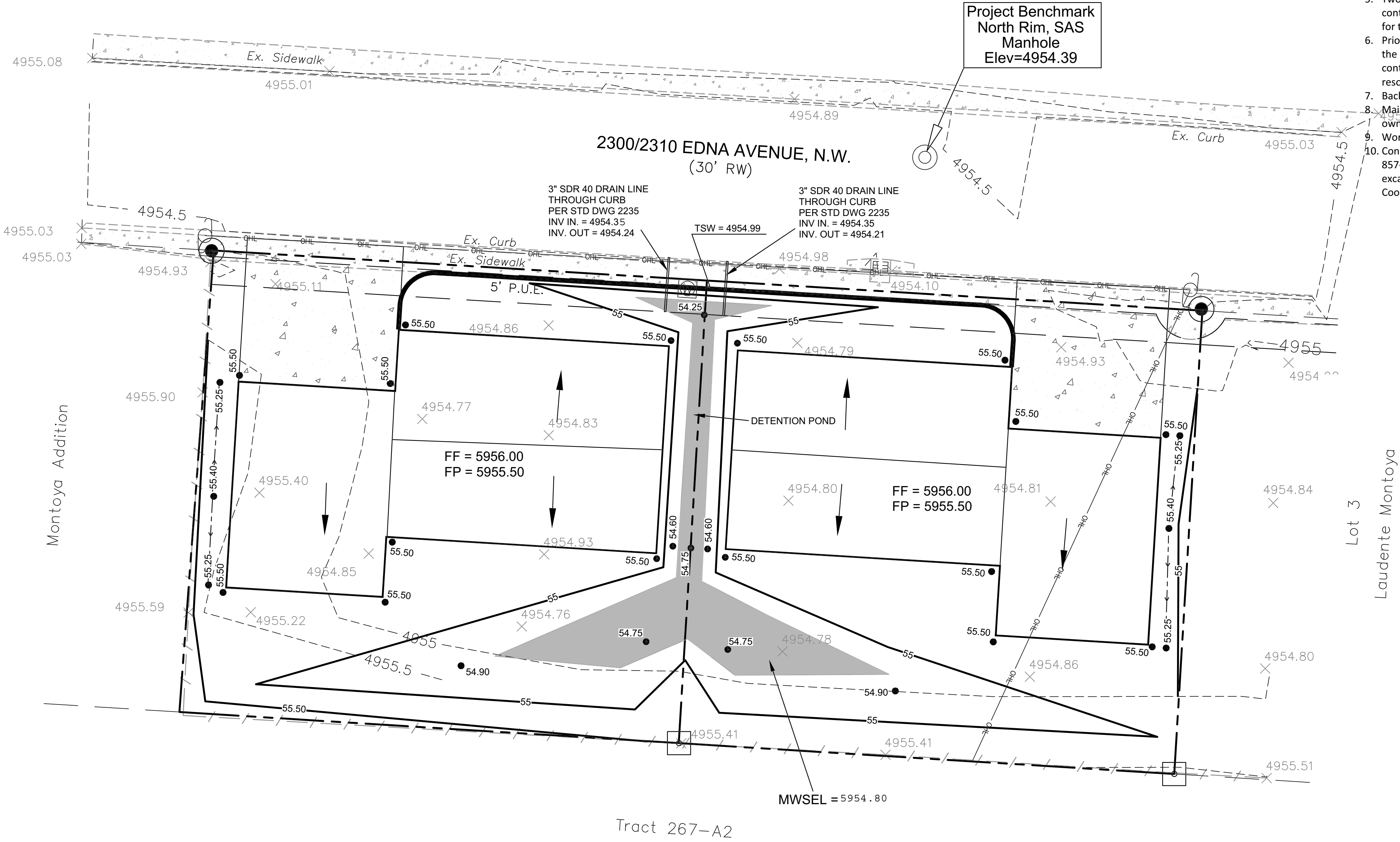
LOT 1-2 LAUDENTE MONTOKYA SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

- XXXX--- EXISTING CONTOUR
- XXXX--- EXISTING INDEX CONTOUR
- XXXX--- PROPOSED CONTOUR
- XXXX--- PROPOSED INDEX CONTOUR
- + XXXXX EXISTING SPOT ELEVATION
- XXXX PROPOSED SPOT ELEVATION
- BOUNDARY
- ADJACENT BOUNDARY
- ===== EXISTING CURB AND GUTTER
- PROPOSED EARTHEN SWALE
- PROPOSED WALL
- PROPOSED FLOW DIRECTION
- PROPOSED CONCRETE
- PROPOSED DETENTION POND



CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.

EARTHEN SWALE
NTS

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



ENGINEER'S SEAL	Lot 1-2 Laudente Montoya Sub 2300-2310 EDNA AVE. NW	DRAWN BY DEM
DAVID SOULE REGISTERED PROFESSIONAL ENGINEER 14522	GRADING AND DRAINAGE PLAN	DATE 1-23-21
1/23/21	Rio Grande Engineering	Lot 1-2 Laudente Montoya Sub DWG
DAVID SOULE P.E. #14522		SHEET # 1 OF 2
		JOB #

VOLUME CALCULATIONS

each lot

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME SUMULATIVE	VOLUME AC-FT	Q (CFS)
54.25	0.00	3.50	0	0	0.000	0.00
54.35	0.00	18.00	1.61	1.6125	0.001	0.00
54.75	0.40	201.00	109.50	111.1125	0.003	0.15
54.90	0.55	440.00	320.50	431.6125	0.010	0.18
54.99	0.64	625.00	452.63	884.2375	0.020	0.19

Orifice Equation

$$Q = CA \text{SQRT}(2gh)$$

C = 0.6
Diameter (in) 3
Area (ft^2)= 0.049087385
g = 32.2
H (ft) = Depth of water above center of orifice
Q (CFS) = Flow

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AHYMO.OUT
AHYMO PROGRAM (AHYMO-S4) - Version: 54.01a - Rel: 01a
RUN DATE (MON/DAY/YR) = 01/25/2021 USER NO.=
RtGrandeSing10441363517
INPUT FILE = c:\uments and Settings\owner\Desktop\2020 JOBS\303372-230
edna\pondrout012521.txt

*S AHYMO = DETENTION-EDNA APTS
POND ROUTING
START TIME=0.0 PUNCH CODE=0

RAINFALL TYPE=2
QUANTER=0.0 DMS 1.74 IN
2IN=2.2 IN DAYS 3.49 IN DT = 0.05 HR

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AREAS (NM & AZ) - 24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE
DT = 0.050000 HOURS FWD TIME = 24.000000 HOURS
0.0000 0.0031 0.0064 0.0098 0.0135 0.0174 0.0218
0.0080 0.0077 0.0481 0.0590 0.0707 0.0827 0.0950
0.1077 0.1206 0.1350 0.1499 0.1661 0.1853 0.2134
0.2471 0.2851 0.3125 0.3505 0.4061 0.5886 0.7787
1.1045 1.1335 1.5140 1.6048 1.6841 1.7415 1.7869
1.8566 1.8556 1.8827 1.9042 1.9216 1.9358 1.9504
1.9632 1.8745 1.9852 1.9957 2.0057 2.0140 2.0187
2.0233 2.0278 2.0321 2.0363 2.0404 2.0444 2.0484
2.0521 2.0558 2.0595 2.0631 2.0666 2.0700 2.0733
2.0766 2.0798 2.0830 2.0861 2.0891 2.0921 2.0951
2.0980 2.1008 2.1037 2.1065 2.1093 2.1120 2.1147
2.1174 2.1200 2.1226 2.1252 2.1277 2.1301 2.1328
2.1352 2.1377 2.1401 2.1425 2.1448 2.1472 2.1495
2.1518 2.1540 2.1566 2.1592 2.1616 2.1635 2.1654
2.1672 2.1693 2.1715 2.1735 2.1756 2.1777 2.1797
2.1817 2.1837 2.1857 2.1876 2.1896 2.1915 2.1934
2.1953 2.1972 2.1991 2.2009 2.2028 2.2046 2.2064
2.2082 2.2100 2.2118 2.2136 2.2157 2.2174 2.2190
2.2213 2.2249 2.2284 2.2320 2.2356 2.2391 2.2527
2.2562 2.2598 2.2633 2.2669 2.2704 2.2740 2.2776
2.2811 2.2847 2.2882 2.2918 2.2951 2.2989 2.3024
2.3060 2.3098 2.3131 2.3167 2.3200 2.3238 2.3273
2.3309 2.3344 2.3380 2.3416 2.3451 2.3487 2.3522
2.3558 2.3591 2.3629 2.3664 2.3699 2.3735 2.3773
2.3807 2.3842 2.3878 2.3913 2.3949 2.3984 2.4020
2.4056 2.4091 2.4127 2.4162 2.4198 2.4233 2.4269
2.4304 2.4339 2.4375 2.4409 2.4444 2.4480 2.4516
2.4553 2.4589 2.4624 2.4660 2.4696 2.4731 2.4767
2.4804 2.4839 2.4875 2.4909 2.4944 2.4980 2.5016
2.5051 2.5087 2.5122 2.5158 2.5193 2.5229 2.5264
2.5300 2.5336 2.5371 2.5407 2.5442 2.5478 2.5513
2.5549 2.5584 2.5620 2.5656 2.5691 2.5727 2.5762
2.5798 2.5831 2.5869 2.5904 2.5940 2.5976 2.6011
2.6047 2.6082 2.6118 2.6153 2.6189 2.6224 2.6260
2.6296 2.6331 2.6367 2.6402 2.6438 2.6473 2.6509
2.6544 2.6580 2.6616 2.6651 2.6687 2.6722 2.6758
2.6793 2.6829 2.6865 2.6900 2.6936 2.6971 2.7007
2.7042 2.7078 2.7113 2.7149 2.7184 2.7220 2.7256
2.7291 2.7327 2.7362 2.7398 2.7433 2.7469 2.7504
2.7540 2.7576 2.7611 2.7647 2.7682 2.7718 2.7753

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AHYMO.OUT
2.7789 2.7824 2.7860 2.7896 2.7931 2.7967 2.8002
2.8038 2.8073 2.8109 2.8144 2.8180 2.8216 2.8251
2.8287 2.8322 2.8358 2.8393 2.8429 2.8464 2.8500
2.8536 2.8571 2.8607 2.8642 2.8678 2.8713 2.8749
2.8784 2.8820 2.8856 2.8891 2.8927 2.8962 2.8998
2.9033 2.9069 2.9104 2.9140 2.9176 2.9211 2.9247
2.9282 2.9318 2.9353 2.9389 2.9424 2.9460 2.9496
2.9531 2.9567 2.9602 2.9638 2.9673 2.9709 2.9744
2.9780 2.9816 2.9851 2.9887 2.9922 2.9958 2.9993
3.0029 3.0064 3.0100 3.0136 3.0171 3.0207 3.0242
3.0278 3.0313 3.0349 3.0384 3.0420 3.0456 3.0491
3.0527 3.0562 3.0598 3.0633 3.0669 3.0704 3.0740
3.0776 3.0811 3.0847 3.0882 3.0918 3.0953 3.0989
3.1024 3.1060 3.1096 3.1131 3.1167 3.1202 3.1238
3.1273 3.1309 3.1344 3.1380 3.1416 3.1451 3.1487
3.1522 3.1558 3.1593 3.1629 3.1664 3.1700 3.1736
3.1771 3.1807 3.1842 3.1878 3.1913 3.1949 3.1984
3.2020 3.2055 3.2091 3.2127 3.2162 3.2198 3.2233
3.2269 3.2304 3.2340 3.2376 3.2411 3.2447 3.2482
3.2518 3.2553 3.2589 3.2624 3.2660 3.2696 3.2731
3.2767 3.2802 3.2838 3.2873 3.2909 3.2944 3.2980
3.3016 3.3051 3.3087 3.3122 3.3158 3.3193 3.3229
3.3264 3.3300 3.3336 3.3371 3.3407 3.3442 3.3478
3.3513 3.3549 3.3584 3.3620 3.3655 3.3691 3.3727
3.3762 3.3798 3.3833 3.3869 3.3904 3.3940 3.3975
3.4011 3.4047 3.4082 3.4118 3.4153 3.4189 3.4224
3.4260 3.4295 3.4331 3.4367 3.4402 3.4438 3.4473
3.4509 3.4544 3.4580 3.4615 3.4651 3.4687 3.4722
3.4758 3.4793 3.4829 3.4864 3.4900

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*basin B HISTORICAL
COMPUTE NM HYD ID=1 HYD NO=101 DA= 0001794 SQ MI
PER A=15 PER B=25 PER C=20 PER D=0
TP=-.138 MASSRAIN=1

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K = 0.151177HR TP = 0.138000HR K/TP RATIO = 1.095488 SHAPE
CONSTANT, N =

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```

3.226096 UNIT PEAK = 0.38970 CFS UNIT VOLUME = 0.9647 B = 299.77
P60 = 1.7400 AREA = 0.000179 SQ MI IA = 0.52550 INCHES INF = 1.39700
INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

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```

PRINT HYD ID=1 CODE=3 PARTIAL HYDROGRAPH 101.00
TIME TIME FLOW TIME FLOW TIME FLOW
HRS HRS CFS HRS CFS HRS CFS
14.850 0.000 0.0 4.950 0.0 9.900 0.0
15.000 0.150 0.0 5.100 0.0 10.050 0.0
15.150 0.300 0.0 5.250 0.0 10.200 0.0
15.300 0.450 0.0 5.400 0.0 10.350 0.0
15.450 0.600 0.0 5.550 0.0 10.500 0.0
15.600 0.750 0.0 5.700 0.0 10.650 0.0
15.750 0.900 0.0 5.850 0.0 10.800 0.0
15.900 1.050 0.0 6.000 0.0 10.950 0.0
16.050 1.200 0.0 6.150 0.0 11.100 0.0
16.200 1.350 0.1 6.300 0.0 11.250 0.0
16.350 1.500 0.3 6.450 0.0 11.400 0.0
16.500 1.650 0.2 6.600 0.0 11.550 0.0
16.650 1.800 0.1 6.750 0.0 11.700 0.0
16.800 1.950 0.0 6.900 0.0 11.850 0.0
16.950 2.100 0.0 7.050 0.0 12.000 0.0
17.100 2.250 0.0 7.200 0.0 12.150 0.0
17.250 2.400 0.0 7.350 0.0 12.300 0.0
17.400 2.550 0.0 7.500 0.0 12.450 0.0
17.550 2.700 0.0 7.650 0.0 12.600 0.0
17.700 2.850 0.0 7.800 0.0 12.750 0.0

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AHYMO.OUT
2.550 0.0 0.900 0.0 1.500 0.2
2.100 0.300 0.0 1.050 0.0 1.650 0.2
2.250 0.450 0.0 1.050 0.0 1.650 0.2
2.250 0.0
RUNOFF VOLUME = 0.69208 INCHES = 0.0066 ACRE-FEET
PEAK DISCHARGE RATE = 0.23 CFS AT 1.550 HOURS BASIN AREA =
0.0002 SQ. MI.

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*basin A
COMPUTE NM HYD ID=2 HYD NO=102 DA= 0001613 SQ MI
PER A=10 PER B=26 PER C=32 PER D=42
TP=-.138 MASSRAIN=1

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K = 0.075210HR TP = 0.138000HR K/TP RATIO = 0.545000 SHAPE
CONSTANT, N =

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7.106428 UNIT PEAK = 0.25836 CFS UNIT VOLUME = 0.9550 B = 526.28
P60 = 1.7400 AREA = 0.000068 SQ MI IA = 0.41724 INCHES INF = 1.01828
INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

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PRINT HYD ID=2 CODE=3 PARTIAL HYDROGRAPH 102.00
TIME TIME FLOW TIME FLOW TIME FLOW
HRS HRS CFS HRS CFS HRS CFS
14.850 0.000 0.0 4.950 0.0 9.900 0.0
15.000 0.150 0.0 5.100 0.0 10.050 0.0
15.150 0.300 0.0 5.250 0.0 10.200 0.0
15.300 0.450 0.0 5.400 0.0 10.350 0.0
15.450 0.600 0.0 5.550 0.0 10.500 0.0
15.600 0.750 0.0 5.700 0.0 10.650 0.0
15.750 0.900 0.0 5.850 0.0 10.800 0.0
15.900 1.050 0.0 6.000 0.0 10.950 0.0
16.050 1.200 0.0 6.150 0.0 11.100 0.0
16.200 1.350 0.0 6.300 0.0 11.250 0.0
16.350 1.500 0.0 6.450 0.0 11.400 0.0
16.500 1.650 0.0 6.600 0.0 11.550 0.0
16.650 1.800 0.0 6.750 0.0 11.700 0.0
16.800 1.950 0.0 6.900 0.0 11.850 0.0
16.950 2.100 0.0 7.050 0.0 12.000 0.0
17.100 2.250 0.0 7.200 0.0 12.150 0.0
17.250 2.400 0.0 7.350 0.0 12.300 0.0
17.400 2.550 0.0 7.500 0.0 12.450 0.0
17.550 2.700 0.0 7.650 0.0 12.600 0.0
17.700 2.850 0.0 7.800 0.0 12.750 0.0

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AHYMO.OUT
20.100 0.0 0.0 5.400 0.0 10.350 0.0
15.300 0.450 0.0 5.400 0.0 10.350 0.0
20.250 0.600 0.0 5.550 0.0 10.500 0.0
15.450 0.600 0.0 5.550 0.0 10.500 0.0
20.400 0.750 0.0 5.700 0.0 10.650 0.0
15.600 0.750 0.0 5.700 0.0 10.650 0.0
20.550 0.900 0.0 5.850 0.0 10.800 0.0
15.750 0.900 0.0 5.850 0.0 10.800 0.0
20.700 1.050 0.0 6.000 0.0 10.950 0.0
15.900 1.050 0.0 6.000 0.0 10.950 0.0
20.850 1.200 0.0 6.150 0.0 11.100 0.0
16.050 1.200 0.0 6.150 0.0 11.100 0.0
21.000 1.350 0.1 6.300 0.0 11.250 0.0
16.200 1.350 0.1 6.300 0.0 11.250 0.0
21.150 1.500 0.3 6.450 0.0 11.400 0.0
16.350 1.500 0.3 6.450 0.0 11.400 0.0
21.300 1.650 0.2 6.600 0.0 11.550 0.0
16.500 1.650 0.2 6.600 0.0 11.550 0.0
21.450 1.800 0.1 6.750 0.0 11.700 0.0
16.650 1.800 0.1 6.750 0.0 11.700 0.0
21.600 1.950 0.0 6.900 0.0 11.850 0.0
16.800 1.950 0.0 6.900 0.0 11.850 0.0
21.750 2.100 0.0 7.050 0.0 12.000 0.0
16.950 2.100 0.0 7.050 0.0 12.000 0.0
21.900 2.250 0.0 7.200 0.0 12.150 0.0
17.100 2.250 0.0 7.200 0.0 12.150 0.0
22.050 2.400 0.0 7.350 0.0 12.300 0.0
17.250 2.400 0.0 7.350 0.0 12.300 0.0
22.200 2.550 0.0 7.500 0.0 12.450 0.0
17.400 2.550 0.0 7.500 0.0 12.450 0.0
22.350 2.700 0.0 7.650 0.0 12.600 0.0
17.550 2.700 0.0 7.650 0.0 12.600 0.0
22.500 2.850 0.0 7.800 0.0 12.750 0.0
17.750 2.850 0.0 7.800 0.0 12.750 0.0

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TIME INFLOW ELEV AHYMO_OUT OUTFLOW
(HRS) (CFS) (FEET) (AC-FT) (CFS)
0.00 0.00 54.35 0.001 0.00
0.15 0.00 54.35 0.001 0.00
0.30 0.00 54.35 0.001 0.00
0.45 0.00 54.35 0.001 0.00
0.60 0.00 54.35 0.001 0.00
0.75 0.00 54.35 0.001 0.00
0.90 0.01 54.36 0.001 0.00
1.05 0.02 54.37 0.001 0.01
1.20 0.03 54.40 0.001 0.02
1.35 0.10 54.46 0.002 0.04
1.50 0.34 54.75 0.003 0.15
1.65 0.22 54.79 0.005 0.16
1.80 0.09 54.79 0.005 0.16
1.95 0.05 54.77 0.004 0.13
2.10 0.03 54.53 0.002 0.11
2.25 0.01 54.49 0.000 0.05
2.40 0.01 54.49 0.000 0.05
2.55 0.00 54.36 0.001 0.01
2.70 0.00 54.36 0.001 0.00
2.85 0.00 54.36 0.001 0.00
PEAK DISCHARGE = 0.0011 CFS PEAK OCCURS AT HOUR 1.70
MAXIMUM WATER SURFACE ELEVATION = 54.795
MAXIMUM STORAGE = 0.0011 AC-FT INCREMENTAL TIME= 0.050000HRS
ADD HYD ID=5 HYD NO=105 ID I=3 ID II=4
PRINT HYD ID=5 CODE=3
PARTIAL HYDROGRAPH 105.00
TIME TIME FLOW TIME FLOW TIME FLOW
HRS HRS CFS HRS CFS HRS CFS
14.850 0.000 0.0 4.950 0.0 9.900 0.0
14.900 0.150 0.0 5.100 0.0 10.050 0.0
15.000 0.0 0.0 5.100 0.0 10.050 0.0
15.950 0.300 0.0 5.250 0.0 10.200 0.0
20.100 0.0 0.0 5.400 0.0 10.350 0.0
15.300 0.450 0.0 5.400 0.0 10.350 0.0
20.250 0.600 0.0 5.550 0.0 10.500 0.0
15.450 0.600 0.0 5.550 0.0 10.500 0.0
20.400 0.750 0.0 5.700 0.0 10.650 0.0
15.600 0.750 0.0 5.700 0.0 10.650 0.0
20.550 0.900 0.0 5.850 0.0 10.800 0.0
15.750 0.900 0.0 5.850 0.0 10.800 0.0
20.700 1.050 0.0 6.000 0.0 10.950 0.0
15.900 1.050 0.0 6.000 0.0 10.950 0.0
20.850 1.200 0.0 6.150 0.0 11.100 0.0
16.050 1.200 0.0 6.150 0.0 11.100 0.0
20.950 1.350 0.1 6.300 0.0 11.250 0.0
16.200 1.350 0.1 6.300 0.0 11.250 0.0
21.050 1.500 0.3 6.450 0.0 11.400 0.0
16.350 1.500 0.3 6.450 0.0 11.400 0.0
21.150 1.650 0.2 6.600 0.0 11.550 0.0
16.500 1.650 0.2 6.600 0.0 11.550 0.0
21.250 1.800 0.2 6.750 0.0 11.700 0.0
16.650 1.800 0.2 6.750 0.0 11.700 0.0
21.350 1.950 0.2 6.900 0.0 11.850 0.0
16.800 1.950 0.2 6.900 0.0 11.850 0.0
21.450 2.100 0.1 7.050 0.0 12.000 0.0
16.950 2.100 0.1 7.050 0.0 12.000 0.0
21.550 2.250 0.1 7.200 0.0 12.150 0.0
17.100 2.250 0.1 7.200 0.0 12.150 0.0
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21.750 2.550 0.0 7.500 0.0 12.450 0.0
17.400 2.550 0.0 7.500 0.0 12.450 0.0
21.850 2.700 0.0 7.650 0.0 12.600 0.0
17.550 2.700 0.0 7.650 0.0 12.600 0.0
21.950 2.850 0.0 7.800 0.0 12.750 0.0
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18.000 3.150 0.0 8.100 0.0 13.050 0.0
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18.150 3.300 0.0 8.250 0.0 13.200 0.0
22.350 3.450 0.0 8.400 0.0 13.350 0.0
18.300 3.450 0.0 8.400 0.0 13.350 0.0
22.450 3.600 0.0 8.550 0.0 13.500 0.0
18.450 3.600 0.0 8.550 0.0 13.500 0.0
22.550 3.750 0.0 8.700 0.0 13.650 0.0
18.600 3.750 0.0 8.700 0.0 13.650 0.0
22.650 3.900 0.0 8.850 0.0 13.800 0.0
18.750 3.900 0.0 8.850 0.0 13.800 0.0
22.750 4.050 0.0 9.000 0.0 13.950 0.0
18.900 4.050 0.0 9.000 0.0 13.950 0.0
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19.050 4.200 0.0 9.150 0.0 14.100 0.0
22.950 4.350 0.0 9.300 0.0 14.250 0.0
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19.800 4.950 0.0 9.900 0.0 14.850 0.0
23.450 5.100 0.0 10.050 0.0 15.000 0.0
19.950 5.100 0.0 10.050 0.0 15.000 0.0
23.550 5.250 0.0 10.200 0.0 15.150 0.0
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23.850 5.600 0.0 10.550 0.0 15.500 0.0
20.400 5.700 0.0 10.650 0.0 15.600 0.0
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24.050 5.800 0.0 10.750 0.0 15.700 0.0
20.600 5.900 0.0 10.850 0.0
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