

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

November 30, 2020

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

RE: 7501 Corte Dorado NW
Grading and Drainage Plan
Engineer's Stamp Date: 11/16/20
Engineer's Certification Date: 11/30/20
Hydrology File: G10D037

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 11/16/2020, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 7501 Corte Dorado NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

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

NM 87103

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

www.cabq.gov

Sincerely,

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



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 7501 CORTE DORADO **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 12 EL RANCHO ATRISCO UNIT 8
City Address: 7501 OCRTE DORADO

Applicant: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924 ALB NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION

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?

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

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: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

STAGE/STORAGE VOLUME CALCULATIONS

FRONT POND

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME UMULATIVI	VOLUME AC-FT	Q (CFS)
26.50	0.00	17.00	0	0	0.0000	0.00
26.75	0.00	79.00	12.00	12	0.0003	0.00
27.00	0.25	117.00	16.75	16.75	0.0004	0.05
28.00	1.25	304.00	191.50	203.5	0.0047	0.12

Orifice Equation

Q = CA SQRT(2gh)

C = 0.6

Diameter (in) 2

Area (ft^2)= 0.021816616

g= 32.2

H (ft)= Depth of water above center of orifice

Q (CFS)= Flow

OUTFALL

ANYMO.OUT
- Version: S4.01a - Rel: 01a
RUN DATE (MON/DAY/YR) = 11/16/2020
START TIME (HR:MIN:SEC) = 16:52:43 USER NO.=
K10grandesIngle41963517
INPVT FILE = and Settings\Owner\desktop\2020 2085\202023-7501
cortedorado.pond\rou111620t.txt
*S ANYMO = DORADO RESIDENCE-
POND ROUTING
*S
START TIME=0.0 PUNCH CODE=0
RAINFALL TYPE=2
QUARTER=0.0 ONE= 1.69 IN
SIX=2.17 IN DAY= 2.49 IN DT = 0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE
AREAS (NH & AZ) - DT = 0.050000 HOURS END TIME = 24.00002 HOURS
DT = 0.050000 HOURS
0.0000 0.0032 0.0065 0.0100 0.0138 0.0176 0.0222
0.0285 0.0385 0.0492 0.0603 0.0723 0.0843 0.0971
0.1101 0.1233 0.1379 0.1531 0.1696 0.1874 0.2158
0.2466 0.2807 0.3151 0.3529 0.4044 0.4602 0.7449
1.0013 1.1007 1.1791 1.3072 1.4844 1.8999 1.7441
1.7826 1.8108 1.8366 1.8580 1.8754 1.8909 1.9048
1.9178 1.9298 1.9403 1.9500 1.9613 1.9699 1.9746
1.9793 1.9839 1.9882 1.9925 1.9967 2.0008 2.0048
2.0087 2.0124 2.0152 2.0186 2.0214 2.0239 2.0263
2.0286 2.0304 2.0319 2.0332 2.0344 2.0356 2.0368
2.0378 2.0387 2.0396 2.0404 2.0413 2.0424 2.0435 2.0445
2.0455 2.0464 2.0472 2.0479 2.0486 2.0492 2.0498
2.0503 2.0509 2.0515 2.0520 2.0525 2.0530 2.0535
2.0540 2.0545 2.0550 2.0555 2.0560 2.0565 2.0570
2.0575 2.0580 2.0585 2.0590 2.0595 2.0600 2.0605
2.0610 2.0615 2.0620 2.0625 2.0630 2.0635 2.0640
2.0645 2.0650 2.0655 2.0660 2.0665 2.0670 2.0675
2.0680 2.0685 2.0690 2.0695 2.0700 2.0705 2.0710
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2.0750 2.0755 2.0760 2.0765 2.0770 2.0775 2.0780
2.0785 2.0790 2.0795 2.0800 2.0805 2.0810 2.0815
2.0820 2.0825 2.0830 2.0835 2.0840 2.0845 2.0850
2.0855 2.0860 2.0865 2.0870 2.0875 2.0880 2.0885
2.0890 2.0895 2.0900 2.0905 2.0910 2.0915 2.0920
2.0925 2.0930 2.0935 2.0940 2.0945 2.0950 2.0955
2.0960 2.0965 2.0970 2.0975 2.0980 2.0985 2.0990
2.0995 2.1000 2.1005 2.1010 2.1015 2.1020 2.1025
2.1030 2.1035 2.1040 2.1045 2.1050 2.1055 2.1060
2.1065 2.1070 2.1075 2.1080 2.1085 2.1090 2.1095
2.1100 2.1105 2.1110 2.1115 2.1120 2.1125 2.1130
2.1135 2.1140 2.1145 2.1150 2.1155 2.1160 2.1165
2.1170 2.1175 2.1180 2.1185 2.1190 2.1195 2.1200
2.1205 2.1210 2.1215 2.1220 2.1225 2.1230 2.1235
2.1240 2.1245 2.1250 2.1255 2.1260 2.1265 2.1270
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2.1765 2.1770 2.1775 2.1780 2.1785 2.1790 2.1795
2.1800 2.1805 2.1810 2.1815 2.1820 2.1825 2.1830
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2.1870 2.1875 2.1880 2.1885 2.1890 2.1895 2.1900
2.1905 2.1910 2.1915 2.1920 2.1925 2.1930 2.1935
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2.2080 2.2085 2.2090 2.2095 2.2100 2.2105 2.2110
2.2115 2.2120 2.2125 2.2130 2.2135 2.2140 2.2145
2.2150 2.2155 2.2160 2.2165 2.2170 2.2175 2.2180
2.2185 2.2190 2.2195 2.2200 2.2205 2.2210 2.2215
2.2220 2.2225 2.2230 2.2235 2.2240 2.2245 2.2250
2.2255 2.2260 2.2265 2.2270 2.2275 2.2280 2.2285
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2.5195 2.5200 2.5205 2.5210 2.5215 2.5220 2.5225
2.5230 2.5235 2.5240 2.5245 2.5250 2.5255 2.5260
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2.5965 2.5970 2.5975 2.5980 2.5985 2.5990 2.5995
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2.6210 2.6215 2.6220 2.6225 2.6230 2.6235 2.6240
2.6245 2.6250 2.6255 2.6260 2.6265 2.6270 2.6275
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2.6420 2.6425 2.6430 2.6435 2.6440 2.6445 2.6450
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2.7330 2.7335 2.7340 2.7345 2.7350 2.7355 2.7360
2.7365 2.7370 2.7375 2.7380 2.7385 2.7390 2.7395
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2.7610 2.7615 2.7620 2.7625 2.7630 2.7635 2.7640
2.7645 2.7650 2.7655 2.7660 2.7665 2.7670 2.7675
2.7680 2.7685 2.7690 2.7695 2.7700 2.7705 2.7710
2.7715 2.7720 2.7725 2.7730 2.7735 2.7740 2.7745
2.7750 2.7755 2.7760 2.7765 2.7770 2.7775 2.7780
2.7785 2.7790 2.7795 2.7800 2.7805 2.7810 2.7815
2.7820 2.7825 2.7830 2.7835 2.7840 2.7845 2.7850
2.7855 2.7860 2.7865 2.7870 2.7875 2.7880 2.7885
2.7890 2.7895 2.7900 2.79

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	Q100 DISCHARGED	FIRST FLUSH REQUIRED
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
TOTAL SITE EXISTING	7551	0.173	0%	0.0000	100.0%	0.0514	0.0%	0.0980	0.0%	0.0844	0.32	0.32	0
PROPOSED REAR	4190	0.096	0%	0.0000	31.0%	0.0298	23.0%	0.0221	46.0%	0.0442	0.19	0.12	0
PROPOSED FRONT	3361	0.077	0%	0.0000	28.0%	0.0216	20.0%	0.0154	52.0%	0.0401	0.25	0.25	0
TOTAL SITE PROPOSE	7551.00	0.173	0.000	29.7%	0.051	21.7%	0.038	48.7%	0.084			0.33*	

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

1. An excavation permit will be required before beginning any work within City Right-Of-Way.
2. 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.
3. 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.
4. 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.
5. Backfill compaction shall be according to traffic/street use.
6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
7. Work on arterial streets may be required on a 24-hour basis.
8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.

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 ractor must
 260-1990]
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LOT OUTFALL
 1-2" PIPE@5126.75
 BUILD WATER QUALITY/ DETENTION POND
 BUILD WATER QUALITY
 TOP=5127.75
 BOTTOM=5126.50

DAYLIGHT 2" PIPE AT CURB
 PER COA STD DWG 2235

PROPOSED SCREEN WALL WITH 1' MAX RETAINAGE
 NO PART OF WALL OR FOOTING SHALL ENCR OACH INTO
 RIGHT OF WAY

DRAINAGE BASIN
 BOUNDARY

BUILD FIRST FLUSH POND
 TOP=5128.95
 BOTTOM=5127.45
 PROPOSED VOLUME=102 CU.FT.

BUILD FIRST FLUSH POND
 TOP=5127.50
 BOTTOM=5126.00
 PROPOSED VOLUME=141 CU.FT.

NEW SIDEWALK
 PER COA STD 2430

NEW 20.75' DRIVEPAD
 PER COA STD DWG #2425

CORTEZ ROAD
 (50' R-W)

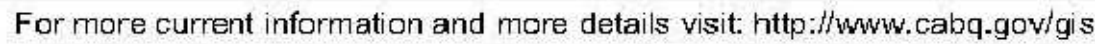
DURAY ROAD
 (66' R-W)

PROJECT BM
 ELEV = 5127.89'

City of Albuquerque
 Planning Department
 Development Review Services
 HYDROLOGY SECTION

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.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

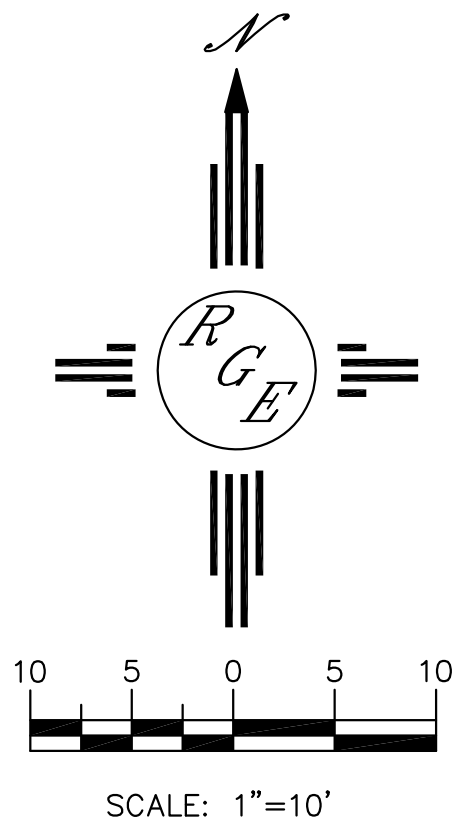


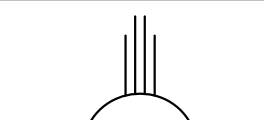
G-10-Z



2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED CONTOUR
	PROPOSED INDEX CONTOUR
	SLOPE TIE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	BOUNDARY
	CENTERLINE
	RIGHT-OF-WAY
	PROPOSED 4" PVC SD
	POOL DECK TRENCH DRAIN
	EXISTING CURB AND GUTTER
	PROPOSED CMU RETAINING WALL—DESIGN BY OTHERS



ENGINEER'S SEAL	7501 CORTE DORADO	DRAWN BY WCVJ
		DATE 11-16-20
	GRADING AND DRAINAGE PLAN	2102097-LAYOUT-11-16-20
11/16/20	 <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # —
DAVID SOULE P.E. #14522		JOB # 2102097