

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

April 23, 2021

Jake Bordenave, P.E.
Bordenave Designs
PO Box 91194
Albuquerque, New Mexico 87109

RE: **Lot 21 Block 7 Unser Cliffs Unit 5 SAD 227**
7908 Shiprock Ct. NW
Grading and Drainage Plan
Engineers Stamp Date 4/19/2021 (E10D46)
Pad Certification Date 4/19/2021

Mr. Bordenave,

Based upon the information provided in your submittal received 4/23/2021, this plan is approved for Building Permit.

Please inform the builder/owner to attach a copy of this approved plan and this letter to the construction sets in the permitting process prior to sign-off by Hydrology.

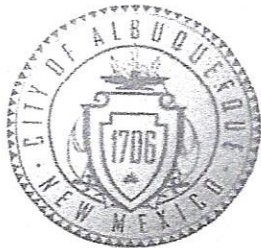
Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan and Pad Certification. Also, let the owner/contractor know that if a pool is to be added in the future the G&D plan will need to be modified showing the location of the pool and the land treatment differences.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist of this plan will be required.

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Northen Reg. Building Permit #: _____ Hydrology File #: _____

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

Legal Description: Lot 21, Blk 7, Volcano Cliffs, Unit 5

City Address: 7908 Shiprock Ct. NW

Applicant: Bordanova Designs Contact: J. Bordanova

Address: 7112 Hollis NE, A16, NM, 87109

Phone#: 505-823-1344 Fax#: _____ E-mail: jake.bordanova

Other Contact: _____ Contact: @comcast.net

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

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

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ 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: 04/13/21 By: J. Bordanova

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

GRADING PLAN

NOTE:
A PERMIT FOR YARD WALLS AND/OR
RETAINING WALLS IS REQUIRED TO
CONSTRUCT THIS PROJECT. SEE
SHEET 13 OF THE ARCHITECTURAL
PLANS FOR YARD/WALL DETAILS.

I, JEAN J. BORDENAVE, NMPE #5110
HAVE PERSONALLY INSPECTED THE
SITE, AND HEREBY CERTIFY THAT THE
BUILDING PAD HAS BEEN
CONSTRUCTED SUCH THAT IT IS IN
SUBSTANTIAL CONFORMANCE WITH THE
GRADING AND DRAINAGE PLAN FOR
THIS SITE.

jean j Bordenave 04/19/21

The main grading plan shows a building footprint with a finished floor elevation (FF) of 5321.00. The building is surrounded by a parking lot and various landscaped areas. The plan includes numerous spot elevations (e.g., 5320, 20.70, 20.50, 20.30) and contour lines. A north arrow is located in the lower left corner. A scale bar indicates 1 inch = 20 feet. The plan also shows the location of Shiprock Ct. NW and Petroglyph National Park.

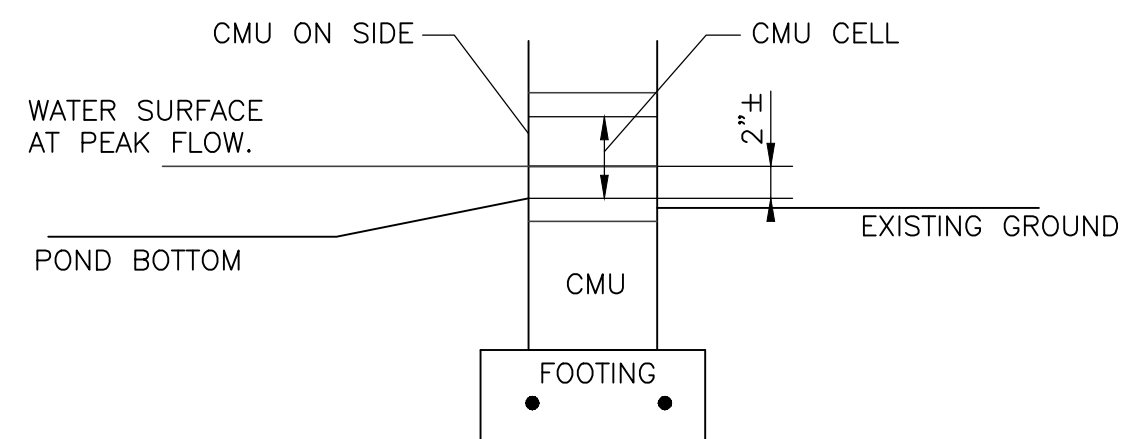
NOTE:
PRIOR TO OBTAINING A BUILDING
PERMIT THE CONTRACTOR SHALL
PREPARE THE BUILDING PAD, AND THE
SURVEYOR SHALL OBTAIN SUFFICIENT
SURVEY DATA TO ASSURE THAT THE
BUILDING PAD WILL CLOSELY MATCH
THE DESIGN ELEVATION.

BASINS

The basins plan shows four basins labeled BASIN A, BASIN B, BASIN C, and BASIN D. The basins are arranged around a central building footprint. A north arrow is located in the lower left corner. A scale bar indicates 1 inch = 30 feet.

WATER HARVESTING POND

CONDITION	BASIN	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	N	- year	(table 4)	sq. ft.	(table 8)	(table 9)	cu. ft.	cfs
					in	cfs/acre		
EXISTING	SITE	10	A	13500	0.08	0.24	90	0.07
			B	0	0.22	0.76	0	0.00
			C	0	0.44	1.49	0	0.00
			D	0	1.24	2.89	0	0.00
			TOTAL	13500			90	0.07
		100	A	13500	0.44	1.29	495	0.40
			B	0	0.67	2.03	0	0.00
			C	0	0.99	2.87	0	0.00
			D	0	1.97	4.37	0	0.00
			TOTAL	13500			495	0.40
DEVELOPED	SITE	10	A	0	0.08	0.24	0	0.00
			B	5616	0.22	0.76	103	0.10
			C	0	0.44	1.49	0	0.00
			D	7884	1.24	2.89	815	0.52
			TOTAL	13500			918	0.62
		100	A	0	0.44	1.29	0	0.00
			B	5616	0.67	2.03	314	0.26
			C	0	0.99	2.87	0	0.00
			D	7884	1.97	4.37	1294	0.79
			TOTAL	13500			1608	1.05
	A	100	B	1381	0.67	2.03	77	0.06
			D	2898	1.97	4.37	476	0.29
			TOTAL	4279			553	0.36
	B	100	B	1476	0.67	2.03	82	0.07
			D	949	1.97	4.37	156	0.10
			TOTAL	2425			238	0.16
	C	100	B	1707	0.67	2.03	95	0.08
			D	1966	1.97	4.37	323	0.20
			TOTAL	3673			418	0.28
	D	100	B	1052	0.67	2.03	59	0.05
			D	2071	1.97	4.37	340	0.21
			TOTAL	3123			399	0.26



Basin A

REQ'D. VOLUME = $(2898)(0.44-0.10)/12 = 82 \text{ CF}$

PROVIDED VOLUME

TOP 400 SF, BOTTOM 137 SF

DEPTH 0.30 FT. VOL. = 53 CF

OVERFLOW TO B

Basin B

REQ'D. VOLUME = $(949)(0.44-0.10)/12 = 27 \text{ C.F.}$

PROVIDED VOLUME

TOP 670 SF, BOTTOM 454 SF

DEPTH 0.3 FT. VOL. = 112 CF

BASIN C

REQ'D. VOLUME = $(1966)(0.44-0.10)/12 = 56 \text{ C.F.}$

PROVIDED VOLUME:

TOP 306 SF, BOTTOM 124 SF

DEPTH 0.30 FT., VOLUME = 64 CF

SET CMU SO THAT PEAK FLOW IS 2" DEEP.
THEREFORE EACH CMU WILL DISCHARGE A MAXIMUM
OF $Q = CLH^{3/2} = 0.17$ CFS WHERE WEIR $C=2.8$
AND $L=0.906$ FT.

BASIN A

PEAK FLOW = 0.36 CFS,
USE 2 CMU'S ON EDGE

BASIN B

PEAK FLOW = 0.52 CFS,
USE 4 CMU'S ON EDGE

BASIN A

PEAK FLOW = 0.28 CFS,
USE 2 CMU'S ON EDGE

BASIN A

PEAK FLOW = 0.26 CFS,
USE 2 CMU'S ON EDGE

BASINS

The diagram is a site plan of the four basins at the University of Maryland Eastern Shore. It features a north arrow pointing upwards and a scale of 1 inch = 30 feet. The basins are labeled as follows:

- BASIN A**: Located in the upper left quadrant.
- BASIN B**: Located in the upper right quadrant.
- BASIN C**: Located in the lower right quadrant.
- BASIN D**: Located in the lower left quadrant.

The plan shows the layout of the basins, including the main channel and various smaller channels and structures. The basins are separated by land areas, and the plan includes a north arrow and a scale of 1 inch = 30 feet.

CONSTRUCTION NOTES: BOTTOM AND BANK WIDTHS SHALL VARY TO SIMULATE A NATURAL STREAM. STONES GREATER THAN 6" SHALL BE LIMITED TO BANK AREA.	PERCENT BY VOL.	PERCENT BY VOL.
	> 6"	0-5
	3"-6"	40-60
	1"-3"	10-30
	3/8"-1"	10-15
	< 3/8"	0-5

VARIES

8" MIN.

VARIES

'BOTTOM WIDTH' SHOWN ON PLAN MINIMUM

8" MIN.

2'

6'

GRAVEL (UNCRAshed) PER CHART

FILTER FABRIC

FINISH GRADE OF ADJACENT EARTH

1. NEW RESIDENCE.
2. CONCRETE DRIVE.
3. CONCRETE PATIO/PORCH.
4. CONCRETE WALK.
5. 4'x4' CONCRETE A/C PAD.
6. CMU YARD WALL.
7. WROUGHT IRON FENCE.
8. 2-3" PVC PIPES THRU WALL FOR DRAINAGE.
9. DRY STREAM w/ EROSION CONTROL PAD. SEE DETAIL THIS SHEET
10. INSTALL 2-CMU's ON EDGE TO PROVIDE DRAINAGE THRU WALL. BOTTOM OF CELL OPENING AT ELEVATION 19.8 IN PONDS A AND B. BOTTOM OF CELL OPENING AT ELEVATION 20.1 IN POND C AND 20.3 IN POND D.
11. WATER HARVESTING POND.
12. SEE SHEET 13 OF ARCHITECTURAL PLANS FOR YARD WALL DETAILS. PROVIDE 2" PVC PIPE THRU PERIMETER YARD WALLS AT 4' ON CENTER AT 3" ABOVE FINISHED GRADE.

1. THE SITE IS PRESENTLY IN IT'S NATURAL STATE AND RELATIVELY FLAT. THE SITE ADJUTS THE PETROGYPH NATIONAL PARK AND IS APPROXIMATELY 250 FEET WEST OF THE LAVA ESCARPMENT.
2. THERE IS A FLOW INCREASE OF 0.55 AND 0.65 CFS FOR THE 10 YEAR AND 100 YEAR STORMS RESPECTIVELY AND THE 6 HOUR RUNOFF VOLUMES FOR THE 10 YEAR AND 100 YEAR STORMS INCREASE BY 828 AND 1113 CUBIC FEET RESPECTIVELY. THERE ARE NO RUNOFF CONVEYANCE SYSTEMS IN THE AREA. THE SITE IS DESIGNED TO SELF CONTAIN THE STORM WATER GENERATED ONSITE BY THE 90TH PERCENTILE STORM.
3. THE SITE IS LOCATED IN A 'ZONE X' PER FEMA FIRM MAP NO. 113-G, DATED SEPTEMBER 26, 2008.
4. TOPO SURVEY DATA SHOWN ON THIS DRAWING WAS PREPARED BY HARRIS SURVEYING, INC. DATED MARCH, 2018.

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE NM811 FOR LOCATION OF EXISTING UTILITIES. DIAL 811 TO SUBMIT REQUEST OR 505-260-1165 WITH QUESTIONS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION 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.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY THE CONSTRUCTION OF TEMPORARY SOIL BERMS OR SILT FENCES AT PROPERTY LINES AND WETTING SOIL TO PREVENT IT FROM BLOWING.

2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING TRACKED DOWN THE STREET.

TBM	TEMPORARY BENCHMARK	PP	POWER POLE
FF	FINISH FLOOR	GW	GUY WIRE
FG	FINISH GRADE	PED	ELEC. OR TEL. PEDESTAL
FL	FLOWLINE	RD OR C ►	ROOF DRAIN OR CANALE
TA	TOP OF ASPHALT	↙	DIRECTION OF FLOW
TC	TOP OF CONCRETE SLAB		
BC	TOP/BACK OF CURB		
TP	TOP OF EARTH PAD		
TS	TOP OF SIDEWALK		
TW	TOP OF WALL		
FH	FIRE HYDRANT		
WM	WATER METER		FEMA FLOODPLAIN BOUNDARY
WV	WATER VALVE		DRAINAGE BASIN BOUNDARY
MH	MANHOLE		EROSION SETBACK LINE
CB	CATCH BASIN GRATE		EXISTING CONTOUR
GM	GAS METER		PROPOSED CONTOUR
GV	GAS VALVE	XX.XX	EXISTING SPOT ELEVATION
LP	LIGHT POLE	XX.XX	PROPOSED SPOT ELEVATION
		XX.XX	RECORD SPOT ELEVATION

[illegible]

UNINCORPORATED AREAS
350001

PETROGLYPH NATIONAL MONUMENT

ZONE X

PARK BOUNDARY
COINCIDENT WITH
CORPORATE LIMITS

SITE

27

Monte Carlo Dr

Kimbo Dr

Shiprock Dr

Victoria Dr

Mauna Loa Dr

Cinder Cone Dr

Kimberlite Dr

Cliff Ct

Cliff Rd

Rimrock Dr

Grepps St

Montano Rd

Grange Ave

Keel Ave

Bangor Ave

Montano Dr

Minehead St

Mayo St

Foxford Ave

Cienega Ct

Santa Fe Rd

81st St

82nd St

83rd St

84th St

85th St

86th St

87th St

88th St

89th St

90th St

91st St

92nd St

93rd St

94th St

95th St

96th St

97th St

98th St

99th St

100th St

101st St

102nd St

103rd St

104th St

105th St

106th St

107th St

108th St

109th St

110th St

111th St

112th St

113th St

114th St

115th St

116th St

117th St

118th St

119th St

120th St

121st St

122nd St

123rd St

124th St

125th St

126th St

127th St

128th St

129th St

130th St

131st St

132nd St

133rd St

134th St

135th St

136th St

137th St

138th St

139th St

140th St

141st St

142nd St

143rd St

144th St

145th St

146th St

147th St

148th St

149th St

150th St

151st St

152nd St

153rd St

154th St

155th St

156th St

157th St

158th St

159th St

160th St

161st St

162nd St

163rd St

164th St

165th St

166th St

167th St

168th St

169th St

170th St

171st St

172nd St

173rd St

174th St

175th St

176th St

177th St

178th St

179th St

180th St

181st St

182nd St

183rd St

184th St

185th St

186th St

187th St

188th St

189th St

190th St

191st St

192nd St

193rd St

194th St

195th St

196th St

197th St

198th St

199th St

200th St

201st St

202nd St

203rd St

204th St

205th St

206th St

207th St

208th St

209th St

210th St

211st St

212nd St

213rd St

214th St

215th St

216th St

217th St

218th St

219th St

220th St

221st St

222nd St

223rd St

224th St

225th St

226th St

227th St

228th St

229th St

230th St

231st St

232nd St

233rd St

234th St

235th St

236th St

237th St

238th St

239th St

240th St

241st St

242nd St

243rd St

244th St

245th St

246th St

247th St

248th St

249th St

250th St

251st St

252nd St

253rd St

254th St

255th St

256th St

257th St

258th St

259th St

260th St

261st St

262nd St

263rd St

264th St

265th St

266th St

267th St

268th St

269th St

270th St

271st St

272nd St

273rd St

274th St

275th St

276th St

277th St

278th St

279th St

280th St

281st St

282nd St

283rd St

284th St

285th St

286th St

287th St

288th St

289th St

290th St

291st St

292nd St

293rd St

294th St

295th St

296th St

297th St

298th St

299th St

300th St

301st St

302nd St

303rd St

304th St

305th St

306th St

307th St

308th St

309th St

310th St

311st St

312nd St

313rd St

314th St

315th St

316th St

317th St

318th St

319th St

320th St

321st St

322nd St

323rd St

324th St

325th St

326th St

327th St

328th St

329th St

330th St

331st St

332nd St

333rd St

334th St

335th St

336th St

337th St

338th St

339th St

340th St

341st St

342nd St

343rd St

344th St

345th St

346th St

347th St

348th St

349th St

350th St

351st St

352nd St

353rd St

354th St

355th St

356th St

357th St

358th St

359th St

360th St

361st St

362nd St

363rd St

364th St

365th St

366th St

367th St

368th St

369th St

370th St

371st St

372nd St

373rd St

374th St

375th St

376th St

377th St

378th St

379th St

380th St

381st St

382nd St

383rd St

384th St

385th St

386th St

387th St

388th St

389th St

390th St

391st St

392nd St

393rd St

394th St

395th St

396th St

397th St

398th St

399th St

400th St

401st St

402nd St

403rd St

404th St

405th St

406th St

407th St

408th St

409th St

410th St

411st St

412nd St

413rd St

LOT 21, BLOCK 7, VOLCANO CLIFFS SUBDIVISION, UNIT 5

ACS 22-E10		ELEVATION 5318.435 (NAVD 1988)	
	04/07/21	BUILDING PERMIT NOTE	JJB
	09/3/20	DRIVEWAY, GARAGE, DRIVEWAY GRADES	JJB
no.	date	remarks	by
REVISIONS			
		project title	
		WORTHEN RESIDENCE 7908 SHIPROCK CT. NW ALBUQUERQUE, NM	
		sheet title	
04/19/21		GRADING AND DRAINAGE PLAN	
drawn by		design by	project no.
METO		JJB	1802
		sheet	
		of	
		P.O. BOX 91194, ALBUQUERQUE, NM 87199 fax (505)823-1344 cell (505)480-6812 ph(505)821-9105 email jakobordenave@comcast.net	