CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

April 8, 2022

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

RE: 7908 Shiprock Ct. NW Permanent C.O. - Approved Engineer's Certification Date: 4/5/22 Engineer's Stamp Date: 9/3/20 Hydrology File: E10D046

Dear Mr. Soule:

PO Box 1293 Based on the certification received 4/6/22 and a site visit on 4/7/22, this certification is approved for Permanent Certificate of Occupancy by Hydrology.

Albuquerque If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

NM 87103

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

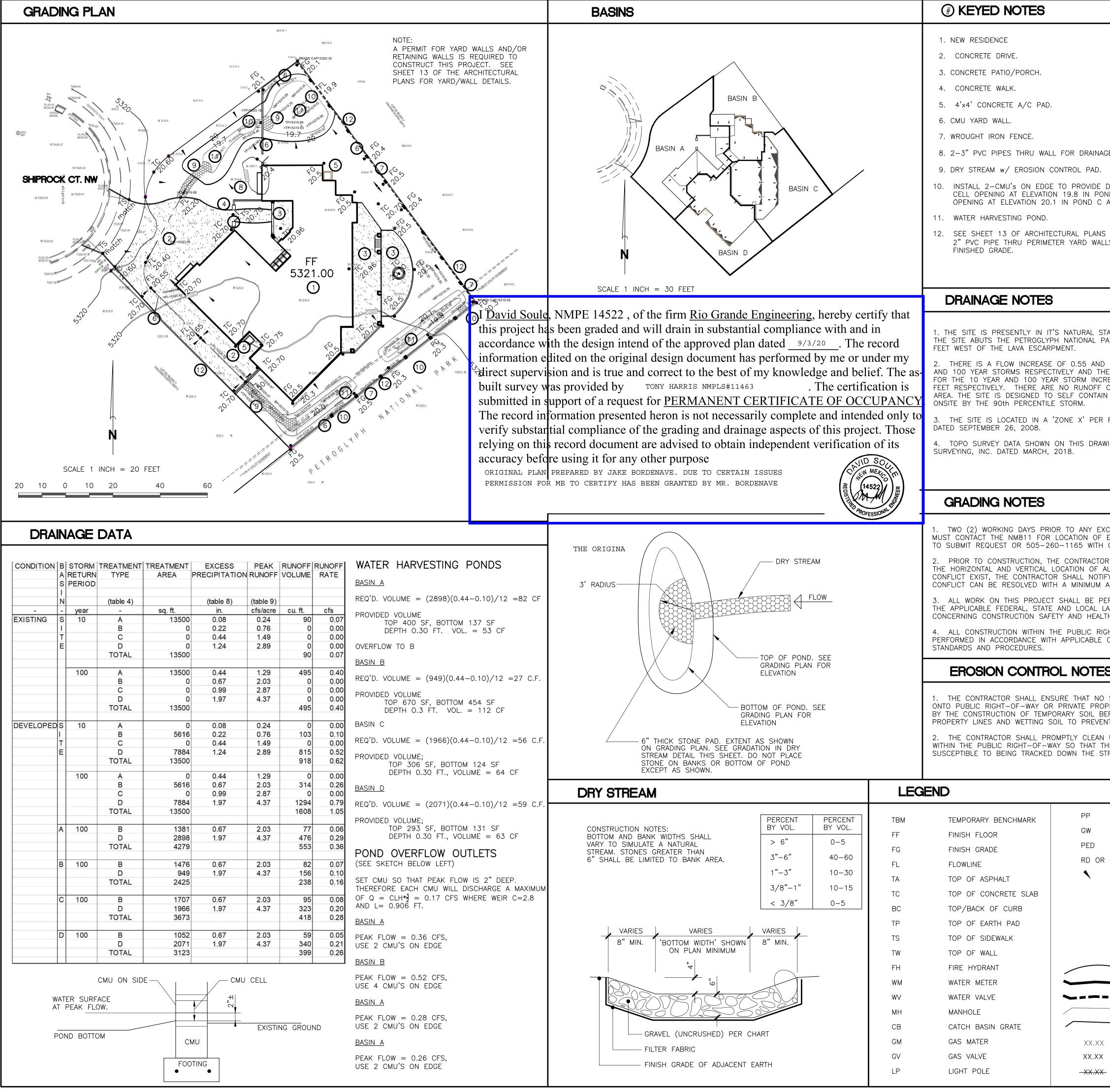
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City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 7908 SHIPROCK	Building Perm	it #:	Hydrol	logy File #. E10D0046
DRB#:	EPC#:		Work	Order#:
Legal Description: LOT 21, BLOCK	7 VOLCANO	CLIFFS UNIT	۲ <u>5</u>	
City Address: 7908 SHIPROCK		<u> </u>		
Applicant:			Contact:	
Address:				
Phone#:				
Other Contact: RIO GRANDE ENGIN	EERING		Contact:	DAVID SOULE
Address: PO BOX 93924 ALB NM	87199			
Phone#:		2.0999	E-mail: ^d	lavid@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT	X RESID	ENCEI	ORB SITE	_ ADMIN SITE
Check all that Apply:				
DEPARTMENT:		TYPE OF APPE	ROVAL/ACCE	PTANCE SOUGHT:
<u>×</u> HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION		BUILDING	PERMIT APPI	ROVAL
		X CERTIFICA	ATE OF OCCU	PANCY
TYPE OF SUBMITTAL:				
ENGINEER/ARCHITECT CERTIFICATIO	N	PRELIMIN		
PAD CERTIFICATION		SITE PLAN		
CONCEPTUAL G & D PLAN				PERMIT APPROVAL
X GRADING PLAN		FINAL PLA	AT APPROVAL	L
DRAINAGE REPORT DRAINAGE MASTER PLAN		SIA/ RELE	ASE OF FINAN	VCIAL GUARANTEE
FLOODPLAIN DEVELOPMENT PERMIT	APPI IC	FOUNDAT		
ELEVATION CERTIFICATE	AI I LIC	GRADING		
CLOMR/LOMR		SO-19 APP		
TRAFFIC CIRCULATION LAYOUT (TCI	.)	PAVING P		DVAL
TRAFFIC IMPACT STUDY (TIS)	·	GRADING/	PAD CERTIF	ICATION
STREET LIGHT LAYOUT		WORK ORI	DER APPROVAL	L
OTHER (SPECIFY)	_	CLOMR/LO	OMR	
PRE-DESIGN MEETING?				MENT PERMIT
IS THIS A RESUBMITTAL?: Yes Y	ło	OTHER (SI	PECIFY)	
DATE SUBMITTED:				
COA STAFF:	ELECTRONIC SU	BMITTAL RECEIVED:		-
	FEE PAID:			



		RETURN	TREATMENT TYPE	AREA	EXCESS PRECIPITATION	PEAK	RUNOFF	RATE
	S	PERIOD			I REGITTATION	RUNOTT	VOLONIL	INAIL
	1	TERIOD						
	N		(table 4)		(table 8)	(table 9)		
_	-	year	-	sq. ft.	in.	cfs/acre	cu. ft.	cfs
EXISTING	S	10	A	13500		0.24	90	0.07
LAIOTING	1	10	В	0		0.76	0	0.07
-	T	-	C	0	0.44	1.49	0	0.00
1	Ē		D	0		2.89	0	0.00
	-		TOTAL	13500	1000 000	2.00	90	0.07
	-		TOTAL	15500			30	0.07
	-	100	A	13500	0.44	1.29	495	0.40
	-	100	В	0	0.67	2.03	433	0.00
	-	-	C	0	0.99	2.87	0	0.00
	-		D	0		4.37	0	0.00
	-		TOTAL	13500	and the second se	4.57	495	0.00
	-		IUIAL	15500			400	0.40
DEVELOPED	S	10	A	0	0.08	0.24	0	0.00
	ī	10	В	5616	0.5.5.5.5.	0.76	103	0.10
	T		C	0		1.49	0	0.00
	Ē		D	7884		2.89	815	0.52
	-		TOTAL	13500		2.00	918	0.62
			TOTAL	10000				0.02
		100	A	0	0.44	1.29	0	0.00
			В	5616	0.67	2.03	314	0.26
			С	0	0.99	2.87	0	0.00
			D	7884	1.97	4.37	1294	0.79
			TOTAL	13500			1608	1.05
	Α	100	В	1381	0.67	2.03	77	0.06
			D	2898	1.97	4.37	476	0.29
			TOTAL	4279			553	0.36
					1-			
	В	100	В	1476	0.67	2.03	82	0.07
			D	949	1.97	4.37	156	0.10
			TOTAL	2425			238	0.16
							x.	
	С	100	В	1707	0.67	2.03	95	0.08
			D	1966	1.97	4.37	323	0.20
			TOTAL	3673			418	0.28
	D	100	В	1052		2.03	59	0.05
			D	2071	1.97	4.37	340	0.21
			TOTAL	3123			399	0.26

WATER HARVESTING PONDS
BASIN A
REQ'D. VOLUME = $(2898)(0.44-0.10)/12 =$
PROVIDED VOLUME TOP 400 SF, BOTTOM 137 SF DEPTH 0.30 FT. VOL. = 53 CF
OVERFLOW TO B
BASIN B
REQ'D. VOLUME = $(949)(0.44-0.10)/12 = 2$
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 =
PROVIDED VOLUME; TOP 306 SF, BOTTOM 124 SF DEPTH 0.30 FT., VOLUME = 64 CI
BASIN D
REQ'D. VOLUME = (2071)(0.44-0.10)/12 =
PROVIDED VOLUME; TOP 293 SF, BOTTOM 131 SF DEPTH 0.30 FT., VOLUME = 63 CI
POND OVERFLOW OUTLETS (SEE SKETCH BELOW LEFT)
SET CMU SO THAT PEAK FLOW IS 2" DEEP. THEREFORE EACH CMU WILL DISCHARGE A I OF Q = $CLH*_2^3$ = 0.17 CFS WHERE WEIR C 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 CES

	VICINITY MAP E-14
AGE. SEE DETAIL THIS SHEET DRAINAGE THRU WALL. BOTTOM OF DNDS A AND B. BOTTOM OF CELL AND 20.3 IN POND D. S FOR YARD WALL DETAILS. PROVIDE LLS AT 4' ON CENTER AT 3" ABOVE	Image: state in the state i
STATE AND RELATIVELY FLAT. PARK AND IS APPROXIMATELY 250	
D 0.65 CFS FOR THE 10 YEAR HE 6 HOUR RUNOFF VOLUMES REASE BY 828 AND 1113 CUBIC CONVEYANCE SYSTEMS IN THE IN THE STORM WATER GENERATED R FEMA FIRM MAP NO. 113-G, WING WAS PREPARED BY HARRIS	FEMA FIRM PANEL NO. 113-G
XCAVATION, THE CONTRACTOR EXISTING UTILITIES. DIAL 811 QUESTIONS. OR SHALL EXCAVATE AND VERIFY ALL OBSTRUCTIONS. SHOULD A IFY THE ENGINEER SO THAT THE AMOUNT OF DELAY. PERFORMED IN ACCORDANCE WITH LAWS, RULES AND REGULATIONS TH. IGHT-OF-WAY SHALL BE COTY OF ALBUQUERQUE	VICTORIA DR VICTORIA DR MAUNA LOA DR MAUNA ST FOXFORD AVE CLIFF RD MAUNA ST FOXFORD AVE CLIFF OT CONTRINA ATTORNO
D SOIL ERODES FROM THE SITE DPERTY. THIS CAN BE ACHIEVED	LEGAL DESCRIPTION
BERMS OR SILT FENCES AT ENT IT FROM BLOWING. N UP ANY MATERIAL EXCAVATED THE EXCAVATED MATERIAL IS NOT STREET.	LEGAL DECONTIL TION
	PERMANENT BENCHMARK
POWER POLE GUY WIRE ELEC. OR TEL. PEDESTAL ROOF DRAIN OR CANALE DIRECTION OF FLOW	ACS 22-E10 ELEVATION 5318.435 (NAVD 1988)
	Image: Constraint of the second se
 FEMA FLOODPLAIN BOUNDARY DRAINAGE BASIN BOUNDARY EROSION SETBACK LINE EXISTING CONTOUR PROPOSED CONTOUR 	Profession Project title WORTHEN RESIDENCE 7908 SHIPROCK CT. NW ALBUQUERQUE, NM sheet title GRADING AND DRAINAGE PLAN drawn by 09/03/20 METO JJB project no. 1802
 EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION RECORD SPOT ELEVATION 	BORDENAVE DESIGNS sheet P.O. BOX 91194, ALBUQUERQUE, NM 87199 of ph (505)823-1344 cell (505)480-6812 of fax(505)821-9105 email jakebordenave@comcast.net of