

# BALLOON FIESTA PARK - SID CUTTER PILOT'S BUILDING

Hydrologic Conditions Basin Data Table

		TO THE RESIDENCE OF THE RESIDENCE OF THE PROPERTY OF THE RESIDENCE OF THE	THE STATE OF THE S	This table is	s based on t	ne DPM Sect	tion 22.2, Zone:	2	er pile	eg alvente de de l'estate de l		ad Palaguar (parago, NacTaograf, Territor Perona, 120 V. 20. Naches perodos emiliandos Caldidas.	Tomorologica de sonos aspectos como como con de sentente de como con describir de como como como como como como como com	Tigretin and and an all with the committee of the property of the state of the committee of	et gall is estilongibe trend to the eneme of	egyt metromogramacosourian, so caught absolic in carring epinem of B B B B B B
Basin	Area	Area	Land	d Treatme	nt Percent	ages	Q(100yr)	Q(100yr)	V(100yr)	V <sub>(100yr-6hr)</sub>	V <sub>(100yr-24hr)</sub>	Q(2yr)	Q(2yr)	WTE	V <sub>(2yr-6hr)</sub>	V <sub>(2yr-24hr)</sub>
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)
<b>PROPOS</b>	ED BASIN	S		-	1											
B1	61614	1.41	0.0%	0.0%	27.0%	73.0%	4.28	6.05	1.85	9513	11012	1.52	2.15	0.62	3169	3820
B2	30618	0.70	0.0%	0.0%	39.0%	61.0%	4.09	2.88	1.73	4424	5047	1.37	0.96	0.54	1379	1649
B3	22838	0.52	0.0%	0.0%	14.0%	86.0%	4.48	2.35	1.98	3771	4426	1.68	0.88	0.70	1333	1617
B4	41941	0.96	0.0%	0.0%	0.0%	100.0%	4.70	4.53	2.12	7410	8808	1.86	1.79	0.79	2761	3368
B5	6399	0.15	0.0%	0.0%	0.0%	100.0%	4.70	0.69	2.12	1131	1344	1.86	0.27	0.79	421	514
B6	17332	0.40	0.0%	0.0%	0.0%	100.0%	4.70	1.87	2.12	3062	3640	1.86	0.74	0.79	1141	1392
TOTAL	180741	4.15	te die westels voorwest teens voorwester voorbe voorweste voorwest	at the colline and restrict restrict and restrict and the section of the colline and restrict and the section of the colline and the colline a	e em var tit i moste vitale en	amilia matria ulan samandhokendelekinging sa aministika.	a allane elikka kalu uru-kas promauneti izrenorusken opaka telekula dobu seru u ulu ulikul	18.36		29310	34275	N PROPERTY CONTRACTOR CONTRACTOR AND ANGELOS FOR A STREET AND ANGELOS FOR A STREET AND A STREET	6.80	Process of the Articularium substitution (Conflicts 1990) in Articularium in House	10204	12359
EXISTING	G BASIN															
XB1	180741	4.15	0.0%	0.0%	18.0%	82.0%	4.42	18.34	1.94	29247	34187	1.63	6.78	0.67	10164	12308
TOTAL	180741	4.15	galang com travalle (1 ang pantan trava) ng ta tilah t	antialessicianes menocentricum presentation (co.	and communication and condenses an assessment of the Albert Miller (Miller (Miller))	Collingua de de la la segui de grante proprieta en el comprene combiento.	rent maljendige, direje incomo gleni go zenoga v ovojanskogo na naposna nagovoj najvejna aktor Ima	18.34	Oppered B Ledenska Valorijaljimakari agos zimlakapama udazničejnih ze etmore jagos.	29247	34187	erispina ett (4 m.) v.m. och som kisketti och statte och som ett (4 m.) v.m. och som kisket e	6.78	and the state of t	10164	12308

INLET TABLE								
Inlet	Inlet	Basin	Actual	Avail	Capacity			
#	Туре	- Barrent Garden et aus der der Strick Strick Bedraft (Lau al Clark Collection (1964) (1965) (1965) (Lau) d. a	Flow (cfs)	Head (ft)	(cfs)			
IN1	1-30" ADS BASIN (PED GRT)*	B3	2.35	0.40	5.90			
IN2	1-30" ADS BASIN (PED GRT)*	B2	2.88	0.30	3.80			
IN3	1-30" ADS BASIN (PED GRT)*	B4	4.53	0.60	7.95			
IN4	2-30" ADS BASIN (PED GRT)*	B5	0.69	0.15	2.80			
IN5	1-30" ADS BASIN (PED GRT)*	В6	1.87	0.30	3.80			
IN6	1-30" ADS BASIN (PED GRT)*	B1	6.05	0.80	9.20			
	*-INLET IN A SUMP CONDITION, CAPACIT	BASED PRODU	JCT SUPPLIED CAR	PACITY CHARTS	Market 677 7 800			

STORM DRAIN PIPE TABLE									
PIPE#	INLET/SD/BASIN	Size	Slope	Capacity*	ACTUAL FLOW				
		in.		cfs	cfs				
SD1	IN2	12	0.80%	4.14	2.88				
SD2	IN1, SD1	15	0.50%	5.94	5.23				
SD3	IN3	12	0.50%	3.28	4.53				
SD4	IN4, SD3	15	0.50%	5.94	5.22				
SD5	IN5, SD4	18	0.50%	9.66	7.09				
SD6	SD5	18	0.50%	9.66	7.09				
SD7	EXISTING SD LINE	30	0.32%	30.16	25.90				
	Capacity Based on Manning's Eq w/ N=0.011								

### DRAINAGE MANAGEMENT PLAN

## SITE LOCATION AND BACKGROUND

THE PROPOSED PROJECT IS THE NEXT PHASE OF THE BALLOON FIESTA PARK. THE PARK IS LOCATED NORTH OF ALAMEDA BLVD AT ALAMEDA PATH. THIS PHASE (SOUTHEAST CORNER OF THE EXISTING PARK) WILL INCLUDE THE PILOTS BUILDING. DRAINAGE ANALYSIS WAS PERFORMED AND CONFORMS TO THE APPROVED DRAINAGE PLAN, HYDRO FILE B17/D1. THE EXISTING AREA OF THE SITE THAT IS BEING REDEVELOPED IS AN ASPHALT PARKING LOT. THE SITE SLOPES TOWARDS THE NORTH AT AN AVERAGE SLOPE OF APPROXIMATELY 1.5%. LOCALIZED STORM DRAIN INLETS IN DEPRESSED AREAS ARE INSTALLED THROUGHOUT THE SITE THAT COLLECT WATER AND CONVEY IT NORTH TO THE OUTFALL TO THE NORTHERN DIVERSION AMAFCA CHANNEL.

#### **EXISTING CONDITIONS**

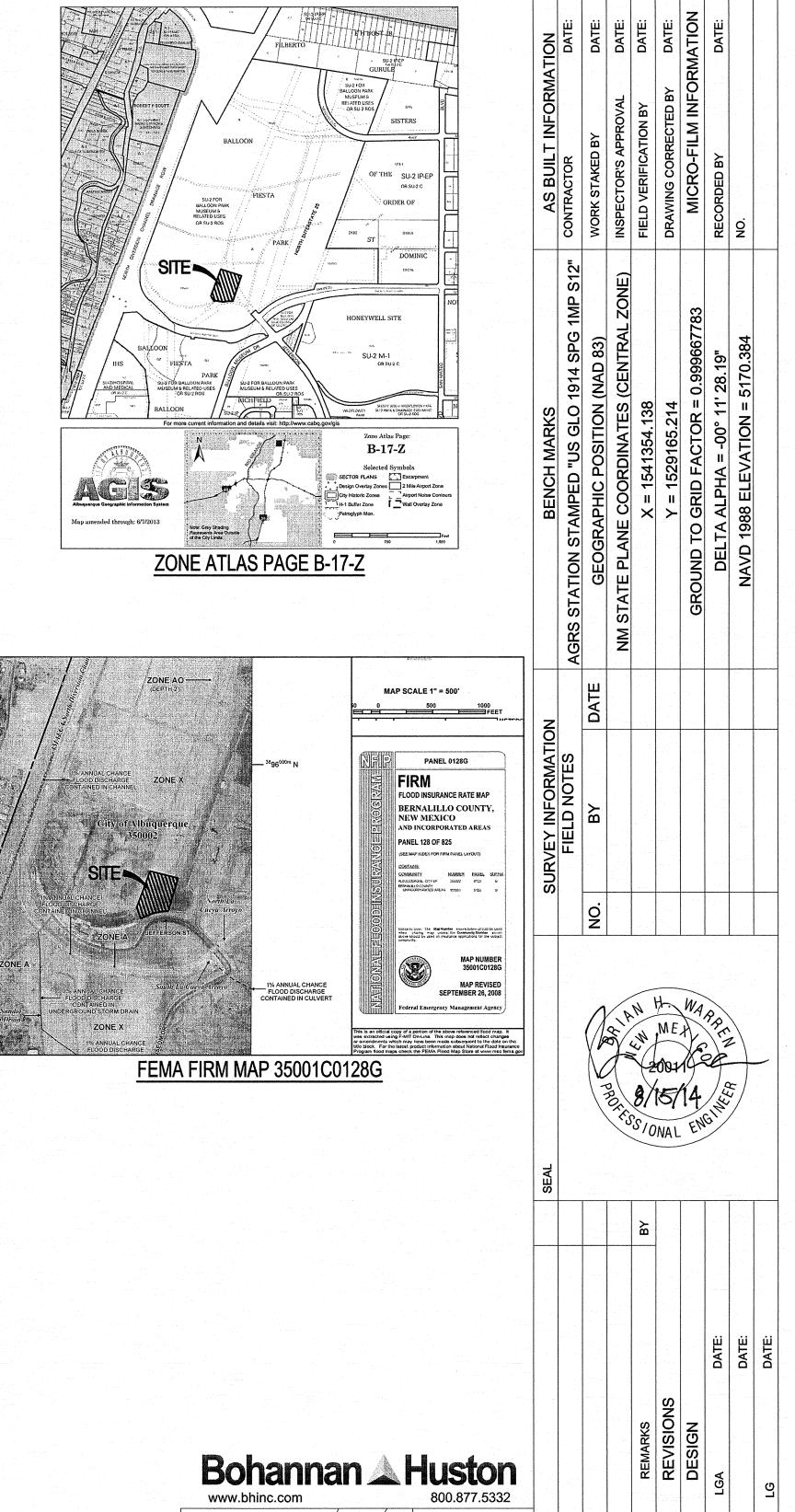
THE DISCHARGE FROM THE EXISTING BASIN FLOWS SOUTH TO NORTH TOWARD AND EXISTING 30" BASIN INLET. THE INLET IS IN A SUMP CONDITION WITH 0.4' AVAILABLE HEAD. THE CAPACITY OF THIS INLET BASED THIS CRITERIA IS APPROXIMATELY 6.OCFS. THE EXISTING BASIN IS 82% PERCENT IMPERVIOUS AREA GENERATING 18.4CFS. ABOUT 12CFS WILL OVERFLOW AND BYPASS THIS INLET AND CONTINUE NORTH ACROSS THE GRASS LANDING FIELDS AND OUTFALL TO THE NORTHERN DIVERSION AMAFCA CHANNEL.

#### PROPOSED CONDITIONS

THE DRAINAGE FROM THE PROPOSED BUILDING WILL MATCH THE EXISTING DRAINAGE PATTERNS THAT ARE CURRENTLY ESTABLISHED ON SITE. THE PROPOSED BUILDING & PAVING WILL MAINTAIN THE IMPERVIOUS AREA. THE PROPOSED SITE IS GRADED TO ALLOW FLOW AROUND THE BUILDING AND CONTINUE ALONG THE HISTORIC PATH. ADDITIONAL INLETS AROUND THE PILOT'S BUILDING HAVE CAPACITY FOR THE 100YR STORM EVENT AND WILL DRAIN TO THE EXISTING UNDERGROUND STORM DRAIN SYSTEM WITH THE SAME AMOUNT OF FLOW. THE PROPOSED STORM DRAIN SYSTEM WILL FLOW UNDER PRESSURE AND ANY DISCHAGE THAT BYPASSES THE SYSTEM WILL CONTINUE NORTH ALONG THE ESTABLISHED PATTERN AND OUTFALL TO THE NORTHERN DIVERSION AMAFCA CHANNEL. THE FINISHED FLOOR OF THE PROPOSED BUILDING IS 5051.00 AND THE INVERT AT THE OVERFLOW LOCATION AT THE NORTH END OF THE SITE IS SET AT 5049.95; 1.05' OF FREEBOARD.

#### CONCLUSION

THE PROPOSED CONDITIONS PEAK DISCHARGE FROM THE SITE IS EQUIVALENT TO THAT OF THE EXISTING CONDITION. THE DRAINAGE PATTERNS FROM THE PROPOSED CHANGES IS SIMILAR TO THE EXISTING DRAINAGE PATTERNS. THE IMPLEMENTATION OF THESE GRADING CONCEPTS WOULD RESULT IN THE SAFE PASSAGE OF THE 100 YEAR STORM EVENT AS WITH THE EXISTING CONDITIONS. WITH THIS PLAN WE REQUEST APPROVAL FOR BUILDING PERMIT.





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CITY OF ALBUQUERQUE

SID CUTTER PILOTS' PAVILION

DRAWING TITLE: DRAINAGE MANAGEMENT PLAN

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