CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

September 21, 2020

Mark Goodwin, P.E. Mark Goodwin & Associates PO Box 90606 Albuquerque, NM, 87199

RE: Juan Tabo Hills Estates Request for Release of Financial Guarantee Hydrology Final Inspection – Accepted Grading Plan Stamp Date: 9/1/18 Certification Dated: 9/10/2020 Hydrology File: M21D018 ; DRB# 1005278

Dear Mr. Goodwin:

PO Box 1293 Based on the submittal received on 9/10/20 and field inspection 9/18/20, this certification is approved in support of Release of Financial Guarantee by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

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



City of Albuquerque

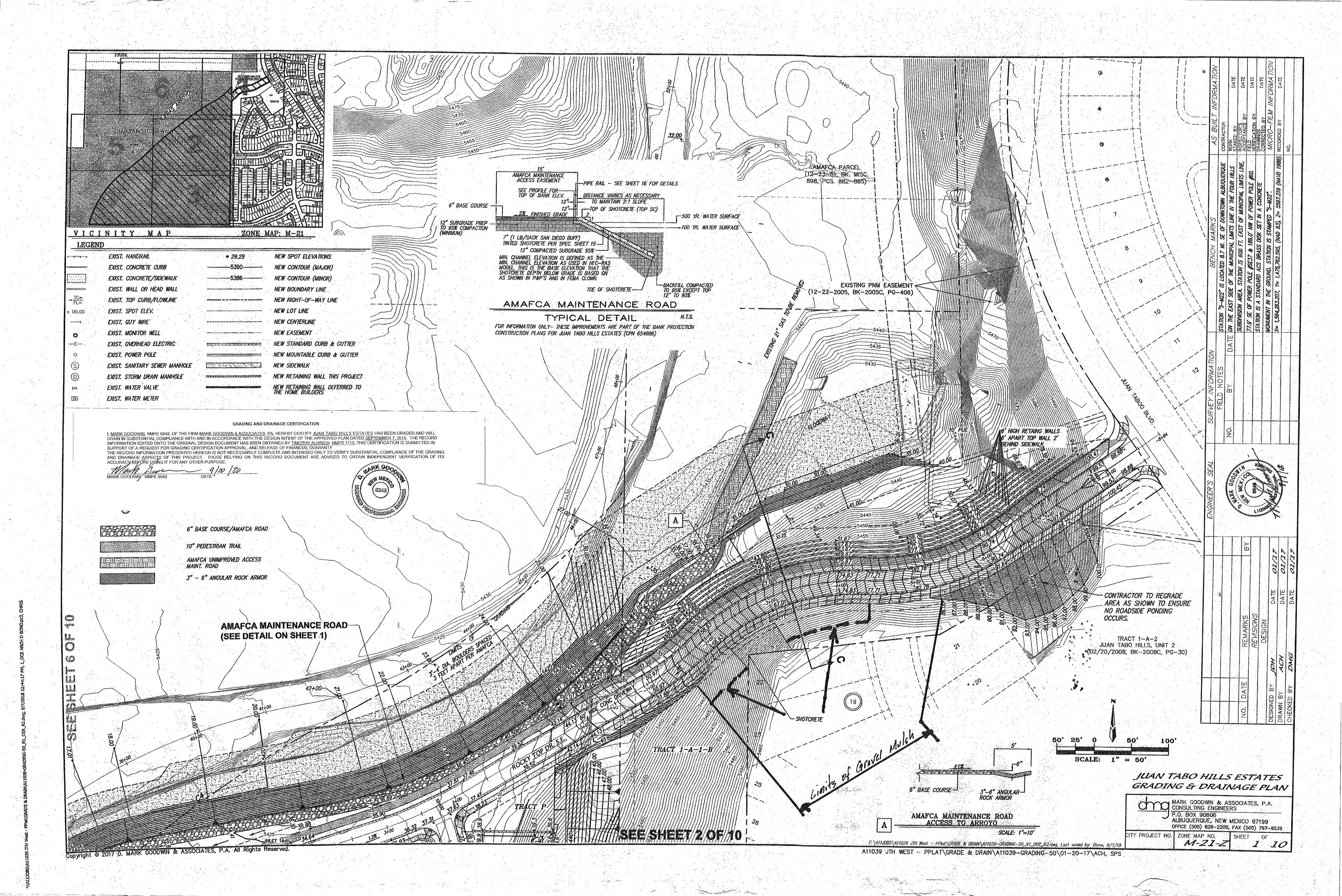
Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

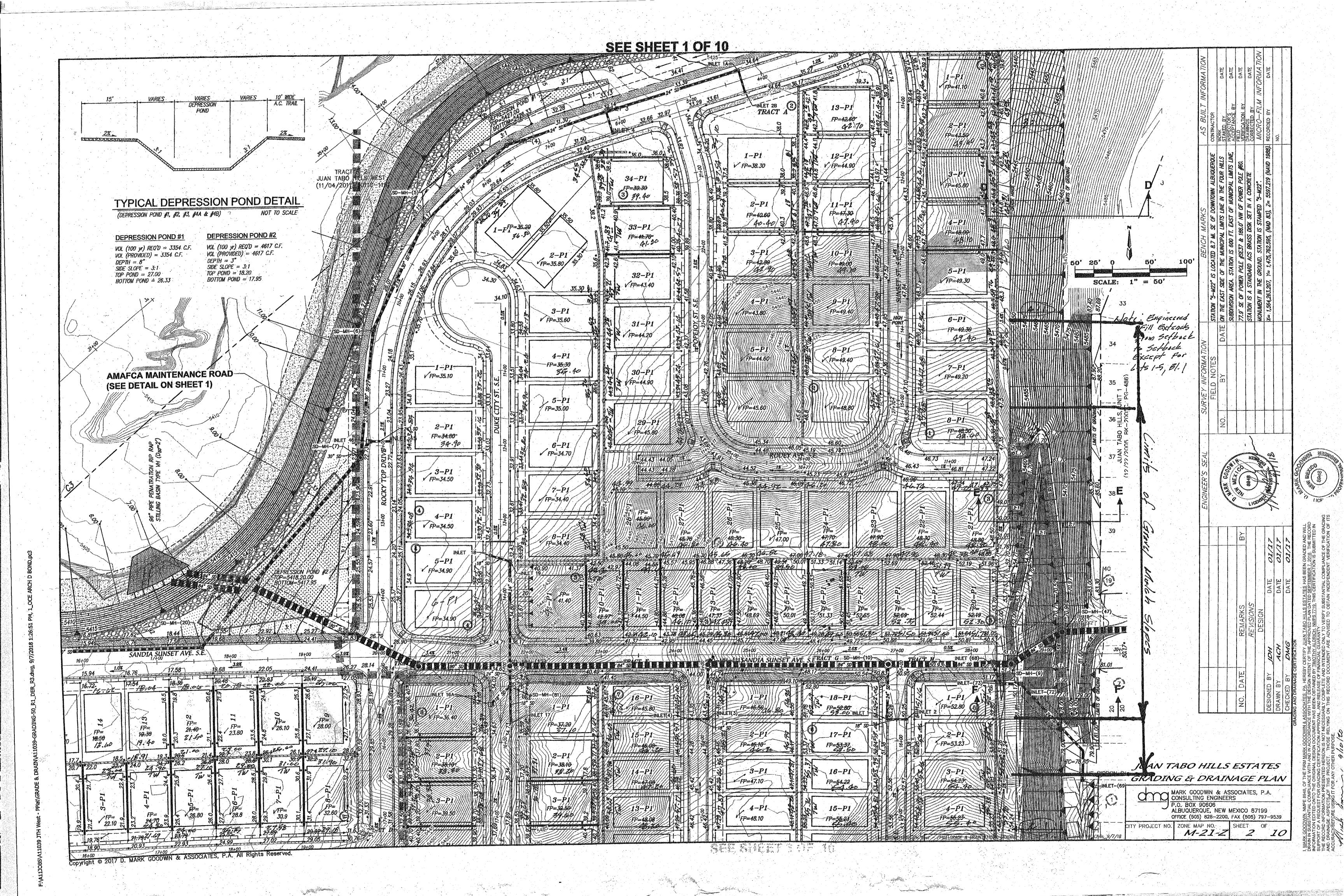
Project Title: Juan Tabo Hills Estates	Building Permit	#:Hydrology File #: <u>M-21/D018</u>
DRB#: PR-2018-01388 (1005278)	EPC#:	Work Order#:
Legal Description: TRACT A JUAN TABO H	ILLS WEST	
City Address: Juan Tabo and Tijeras Arroyo		
Applicant: Eastside Development, Inc.		Contact: <u>Rex Wilson</u>
Address: PO BOX 9470, Albuquerque, NM 871	19	
Phone#: 899-6768	Fax#:	E-mail: <u>rwr2d2@aol.com</u>
Other Contact: Mark Goodwin & Associates, 1	PA	Contact: Mark Goodwin
Address: PO BOX 90606, Albuquerque, NM 87	'199	
Phone#: 828.2200	Fax#:	E-mail: <u>mark@goodwinengineers.com</u>
TYPE OF DEVELOPMENT: <u>330</u> PLAT (#	of lots)I	RESIDENCEDRB SITEADMIN SITE
DEPARTMENTTRANSPORTATION Check all that Apply: TYPE OF SUBMITTAL: X ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN A GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL)		LOGY/DRAINAGE 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 FOUNDATION PERMIT APPROVAL —GRADING PERMIT APPROVAL —SO-19 APPROVAL
TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?		PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL

DATE SUBMITTED: September 10, 2020 By: Mark Goodwin, PE

_____ ELECTRONIC SUBMITTAL RECEIVED:

FEE PAID:



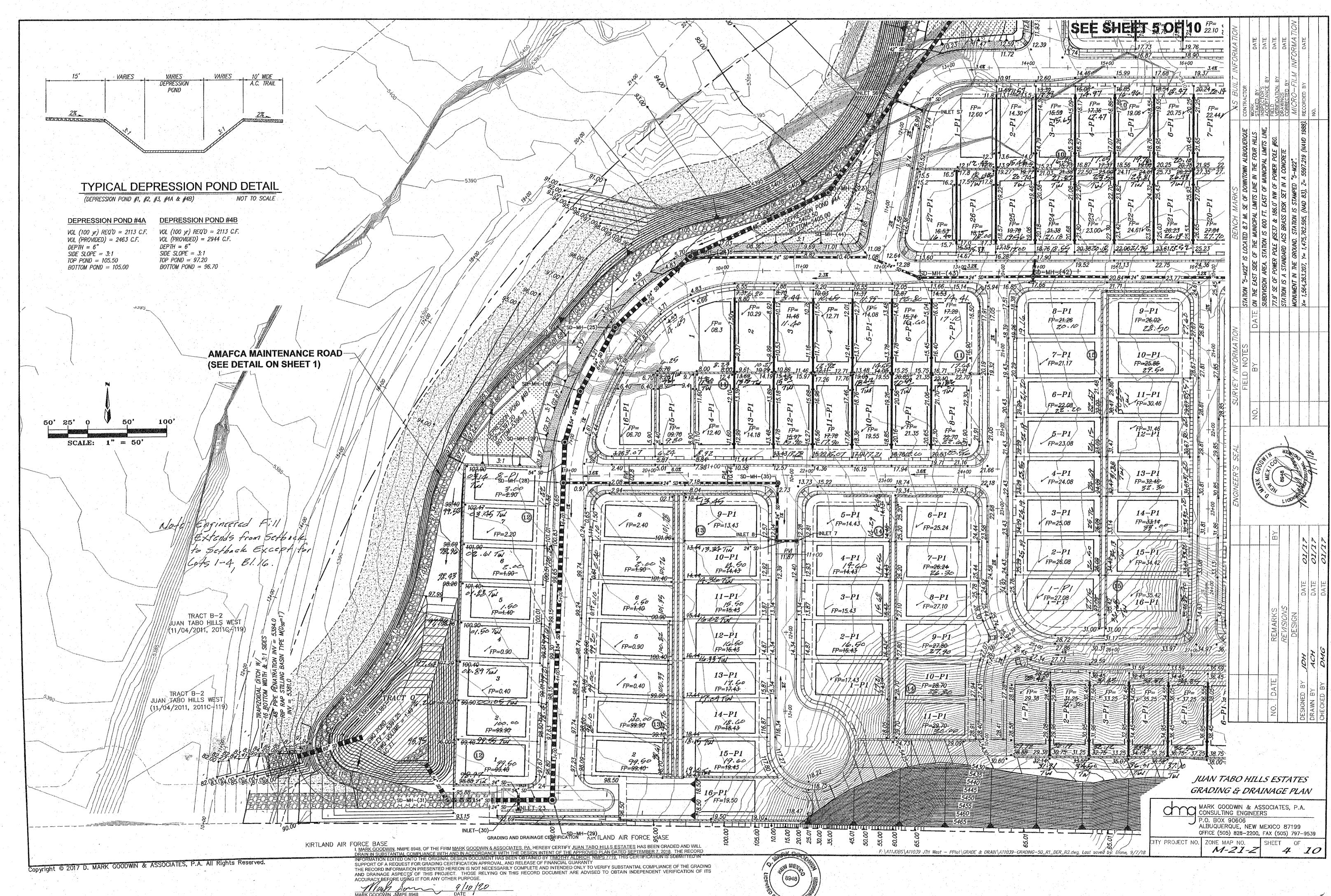




(8948)

m, 9/10/20

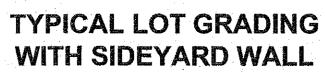
and the second statement and an and the second statements

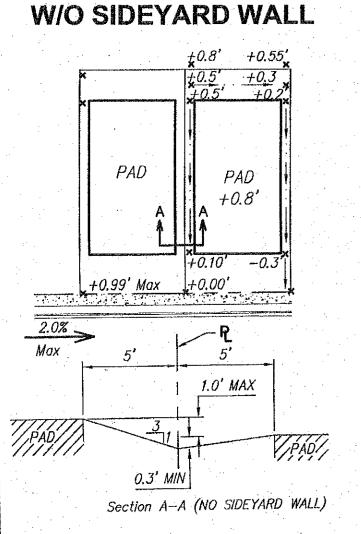


GRADING NOTES:

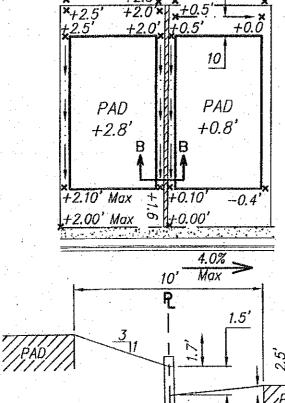
- 1. THE CONTRACTOR(S) MUST COMPLY WITH NPDES TEMPORARY CONSTRUCTION REQUIREMENTS AND OBTAIN A PERMIT. CONTRACTOR SHALL ALSO PROVIDE A COPY OF THE APPLICATION FOR PERMIT AND NOTICE OF TERMINATION TO THE OWNER.
- 2. THE CONTRACTOR(S) IS RESPONSIBLE FOR PREPARING AND MAINTAINING A SWPPP FOR THE DURATION OF INFRASTRUCTURE CONSTRUCTION AND UNTIL THE CITY OF ALBUQUERQUE ACCEPTS THE PUBLIC INFRASTRUCTURE. CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF THE SWPPP AT THE BEGINNING OF THE PROJECT AND AT THE TIME OF NOTICE OF TERMINATION.
- 3. THE CONTRACTOR(S) IS RESPONSIBLE FOR CONSTRUCTING AND MAINTAINING EROSION CONTROLS FOR THE DURATION OF THE CONSTRUCTION OF THE PUBLIC INFRASTRUCTURE AND FOR THE REMOVAL OF THE EROSION CONTROLS WHERE DIRECTED TO DO SO BY THE OWNER AT THE TIME OF NOTICE OF TERMINATION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND IS TO PROVIDE AN AS-BUILT SURVEY CERTIFIED BY A REGISTERED PROFESSIONAL SURVEYOR TO THE OWNER UPON COMPLETION OF THE CONSTRUCTION. THE EARTHWORK CONTRACTOR IS TO PROVIDE EARTHWORK SURVEY, AND THE WALL BUILDER IS TO PROVIDE WALL SURVEY.
- 5. EARTHWORK CONTRACTOR SHALL PREPARE ROUGH SUBGRADE FOR THE RETAINING WALL CONSTRUCTION AND PROVIDE SUFFICIENT BACKFILL MATERIAL STOCKPILED ON THE HIGH SIDE OF EACH WALL FOR THE WALL BUILDER TO COMPLETELY BACKFILL THE WALLS.
- 6. RETAINING WALLS ARE SHOWN FOR GRADING PURPOSES ONLY. RETAINING WALL DESIGN IS TO BE PERFORMED BY OTHERS, AND SHALL BE SUBMITTED TO THE CITY OF ALBUQUERQUE FOR REVIEW, APPROVAL, PERMIT, AND INSPECTION
- 7. EARTHWORK CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION BY GEOTEST, INC. DATED JUNE 29, 2012.
- 8. TOPOGRAPHIC AND BOUNDARY SURVEY ARE BY ALDRICH LAND SURVEYING NOVEMBER 2011.
- 9. BENCHMARK USED IS AGRS BRASS CAP STAMPED "7-M21" HAVING AN ELEVATION OF 5498.07 (NGVD29).
- 10. FEMA SPECIAL FLOOD HAZARD ZONE ON THIS PROPERTY AS SHOWN ON LOMR CASE NO. 13-06-1053P EFFECTIVE JUNE 17, 2013.

FLOOD PLAIN LEGEND

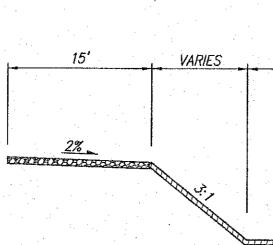




TYPICAL LOT GRADING



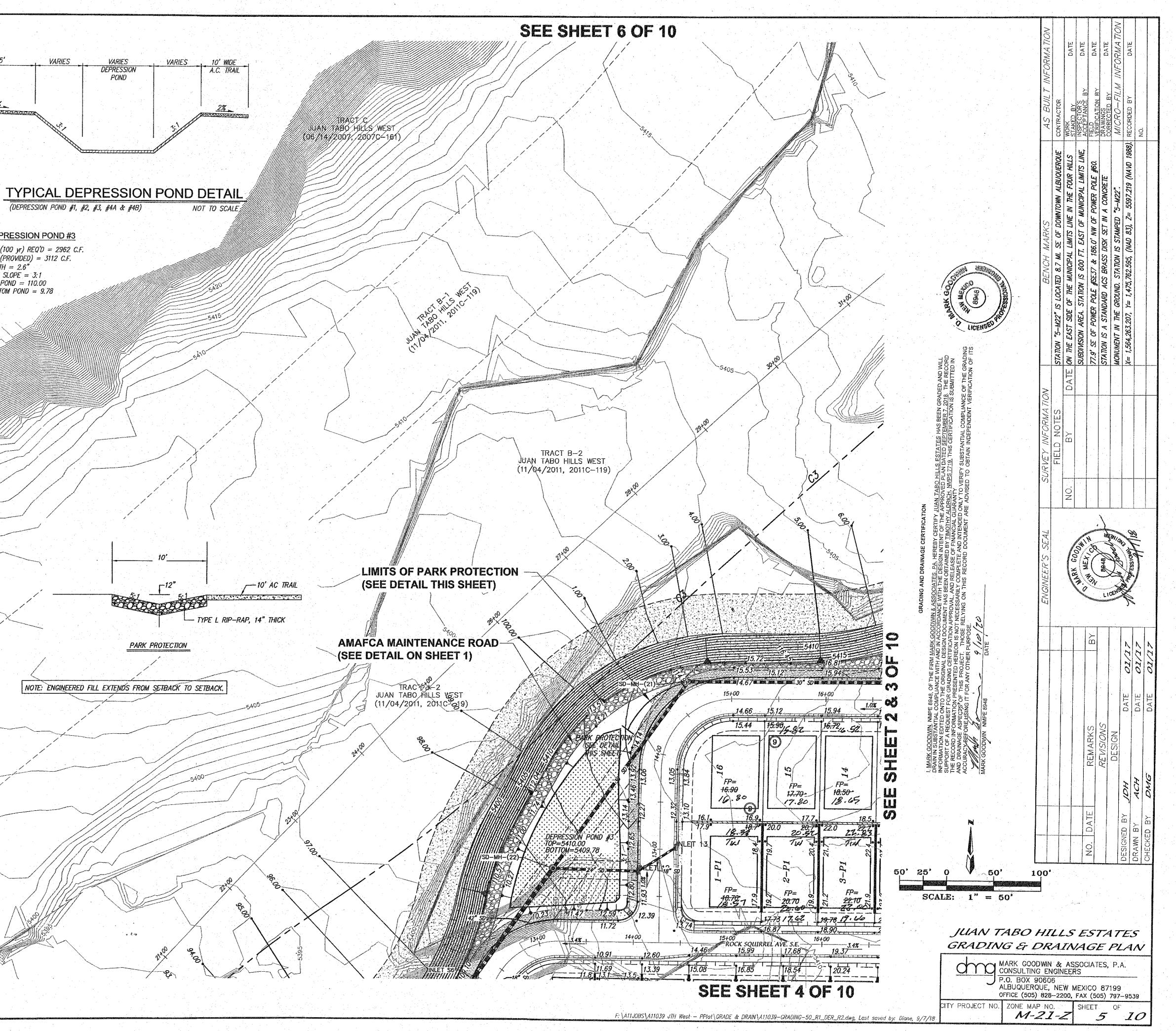
Section B-B (HOME BUILDER'S SIDEYARD WALL)

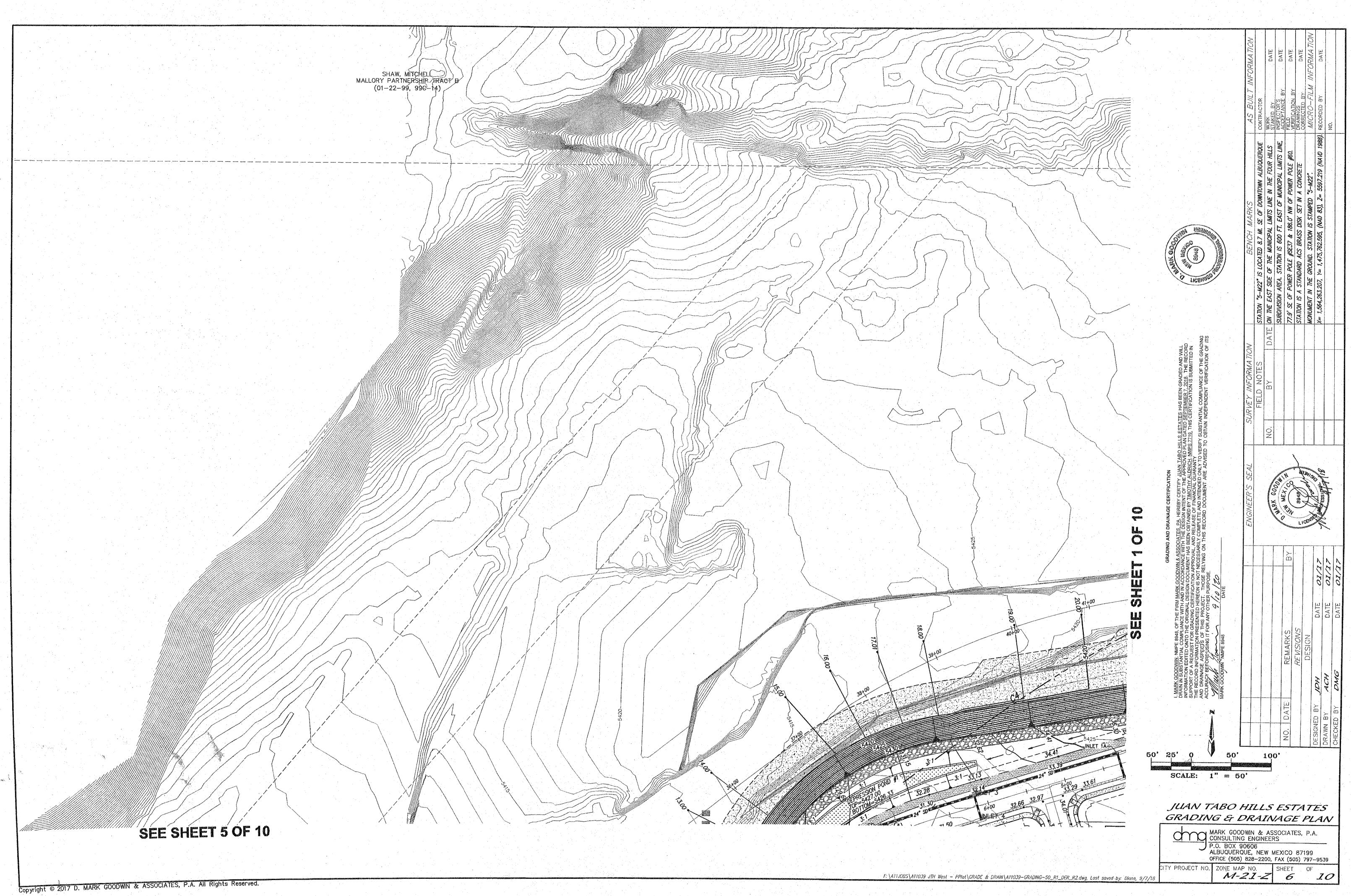


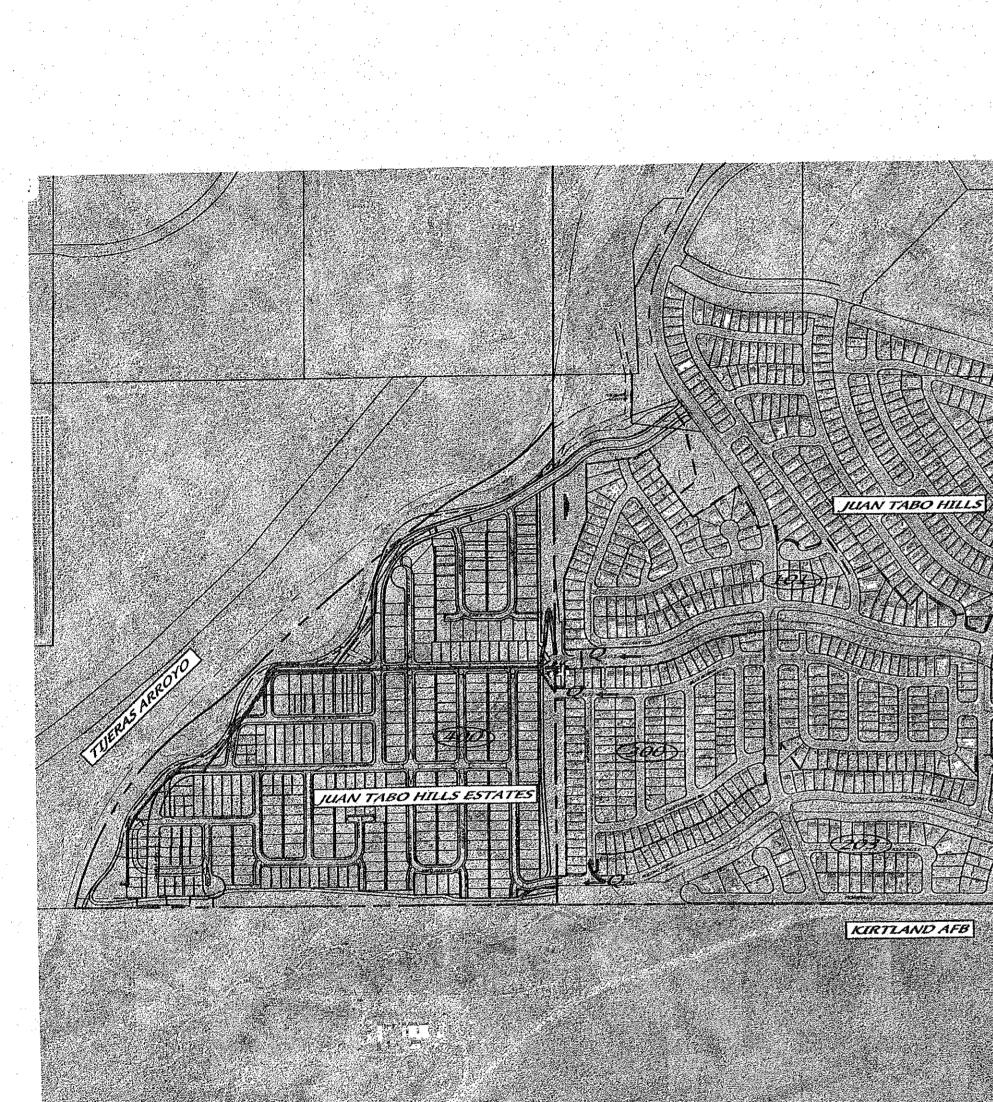
DEPRESSION POND #3

VOL (100 yr) REQ'D = 2962 C.F.VOL (PROVIDED) = 3112 C.F. DEPTH = 2.6"SIDE SLOPE = 3:1 TOP POND = 110.00 BOTTOM POND = 9.78

Copyright © 2017 D. MARK GOODWIN & ASSOCIATES, P.A. All Rights Reserved.

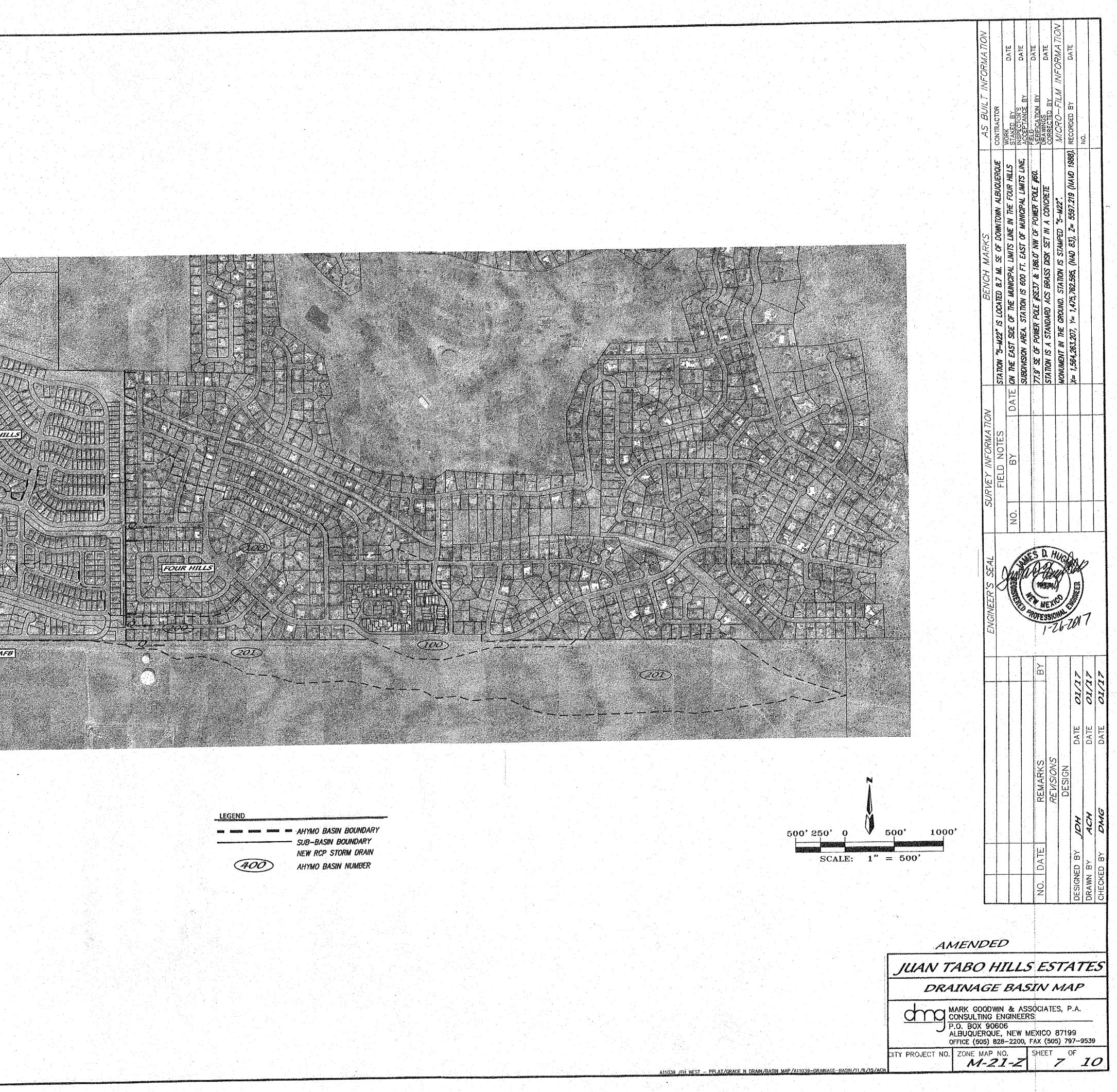


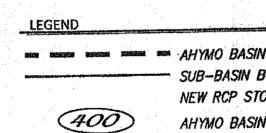




-	and the second	AF	Grou	nd C	over	(%)	Q ₁₀₀ (cfs)	Water Quality Volume (Ac-Ft)				
AHYMO	Location	(Ac)	(Sq mi)	A	B	C	D	Increment	Increment	Sub Total		
BASIN ID	And the second se	89.10	0.13922	8	18	35	38.7	328.22	1.3218	1.3218		
100	Four Hills		0.10438		19	39	42	282.50	1.0755	1.0755		
101	Juan Tabo Hills	66.80	0.01406		20	40	40	37.61	0.1380	1.4598		
200	Four Hills	9.00	0.01828	100	0	0	0	27.64	0.0000	0.0000		
201	Kirtland	76.30	0.01628	100	22	45	33	172.59	0.5376	1.6131		
203	Juan Tabo Hills	42.50		0	14	29	57	99.75	0.4873	2.1004		
300	Juan Tabo Hills	22.30	0.03484		9	41	50	343.61	1,4893	1.4893		
400	JTH Estates	77.70	0.12141	<u></u>						5.05		
TOTALS:		383.70	0.50		1			1291.92				

Copyright © 2017 D. MARK GOODWIN & ASSOCIATES, P.A. All Rights Reserved.





		• • •				HYUR	ROLOGY	SUM	MARY	IAR				traine thereited.
		HYDROL	OGY			S	treet flows	·				inlet Calcs		
AHYMO	SUB-	AREA	Peak 100-YR	Flow Q ₁₀₀ (cfs)		Curb	Slope	Depth	Velocity	Energy	Inlet ID	Intercepted	By-pass	
	BASIN ID	(Ac)	Incremental		Location	Туре	(%)	(ft)	(fps)	(ft)	#	(cfs)	(cfs)	Dow
														
400		77.70	343.61			044 (00)		0.00	EE	0.76		0.00	14.05	4(
	400AA	3.18	14.05	14.05	Rocky Top	Std. (8")	8.0	0.29	5.5	0.10	<u> </u>	0.00	10.82	4
	400BB	2.45	10.82	10.82	trail	n/a	-	0.00	3.8	0.45	-	0.00	8.35	4(
	400CC	1.89	8.35	8.35	Sunset St	Roll (4")	3.6 1.2	0.23	3.0	0.45	11 & 12	11.80	23.36	4
	400DD	0.44	1.94	35.16	Sunset St	Std. (8")	1.0	0.33	2.5	0.43		0.00	12.68	4
	400EE	2.87	12.68	12.68	Sunset St	Roll (4") Std. (8")	3.6	0.33	5.2	0.43			12.00	<u> </u>
	400FF	4.13	18.24	30.92	Popejoy Reality Top	Std. (8")	1.2	0.60	4.1	0.86	13 & 14	16.00	38.28	4(
	10000	4.40	E 40	54.28	Rocky Top	Std. (8")	2.1	0.00	4.9	0.86	100117	0.00	43.40	4
	400GG	1.16	5.12	43.40	Rocky Top	Std. (8")	2.0	0.32	3.6	0.52	-	0.00	14.84	4
	400A	1.27	5.61	14.84	Silver Dollar St	Std. (8")	2.0	0.32	4.0	0.68		0.00	26.68	4
	400B	2.68	11.84	26.68 25.62	Silver Dollar St Silver Dollar St	Std. (8")	2.0/Sump	0.43	4.0	0.68	S12 & S13		0.00	4
	400C	2.78	12.28			n/a	2.0/30mp	0.40	4.0	0.00	S11	17.05	0.00	4
	400D	3,86	17.05	17.05	Eastern Bndry Sandia Sunset	Roll (4")	0.5	0.22	1.4	0.25	\$22	2.43	0.00	<u></u>
	400L1	0.55	2.43	2.43		Roll (4")	2.6	0.22	3.1	0.38	02.4	0.00	3.71	4
	400L2	0.84	3.71	3.71	Sandia Sunset	Roll (4")	3.4	0.23	.4.1	0.54		0.00	7.33	4
	400L3	0.82	3.62	7.33	Sandia Sunset Hubbard	Roll (4")	2.0	0.30	3.4	0.48		0.00	12.77	4
	400E	2.89	12.77	12.77	Manzano Vista	Std. (8")	3.2	0.30	4.2	0.40		0.00	15,33	4
	400F1	0.45	1.99	15.33 22.46	Manzano Vista	Std. (0")	3.2	0.39	4.3	0.68		0.00	22.46	4
	400F2	0.46	2.03 1.15	35.22	Manzano Vista	Std. (8")	3.2	0.44	4.2	0.71		0.00	35.22	4
	400F3	0,26 3.31	14.62	14.62	Duke City	Roll (4")	2.0	0.33	3.4	0.51	-	0.00	14.62	4
	400G	1.86	8.22	22.84	Duke City	Std. (8")	2.0	0.42	3.9	0.66	-	0.00	22.84	4
	400H 400I	2.79	12.32	19.99	Hubbard	Std. (8")	2.0/Sump	0.40	3.8	0.62	S14 & S15	19.99	0.00	4
	400J	2.79	12.32	27.22	Duke City	Std. (8")	4.0	0.46	4.0	0.71	S16 & S17	27.22	0.00	1
	4005 400K1	0.41	1.81	19.42	Rocky Top	Std. (8")	1.9	0.41	3.7	0.62	-	0.00	19.42	4
	400K1 400K2	0.41	1.81	11.52	Rocky Top	Std. (8")	1.9	0.35	3.1	0.50	~	0,00	11.52	4
	400K2	2.13	9.41	9.41	Duke City	Roll (4")	0.5	0.33	1.8	0.38		0.00	9.41	4
	400M	1.07	4.73	17.80	Duke City	Std. (8")	0.5	0.44	2.0	0.50	S18 & S19	17.80	0.00	t
	400P	0.70	3.09	52.26	Rocky Top	Std. (8")	Sump		1	· · · ·	S1 & S2	52.26	0.00	<u> </u>
	400Q	1.93	8,53	8.53		Roll (4")	0.5	0.33	1.8	0.38	-	0.00	8.53	4
	400Q 400R	2.08	9.19	17.71	Harrier Hawk	Std. (8")	4.0	0.36	4.7	0.70	1	0,00	17.71	4
	400S	2.17	9.59	18.44	Burrowing Owl	Roll (4")	2.0	0.35	3.6	0.55	-	0.00	18.44	4
	4000 400T	1.90	8.39	26.00	Manzano Vista	Std. (8")	3.2	0.41	4.6	0.74	15 & 16	11.80	14,20	4
	400U	1,60	7.07	39.71	Manzano Vista	Std. (8")	3.2	0.47	5.5	0.94	17 & 18	14.20	25.51	4
	400V	3.71	16.39	25.24	White Dove	Std. (8").	2.0.	0.43	4.0	0.68	-	0.00	25.24	4
	400W	0.78	3.45	16.07	White Dove	Std. (8")	2.0	0.38	3.5	0.57	-	0.00	16.07	4
	400X	0.29	1.28	42.86	Manzano Vista	Std. (8")	3.1	0.47	5.7	0.97	·	0.00	42.86	4
	400Y	0.93	4.11	25.54	Rock Squirrel	Std. (8")	2.0	0.43	4.0	0.68	-	0.00	25.54	4(
	400Z	1.54	6.80	28.23	Manzano 40' FF	Std. (8")	1.0	0.42	4.1	0.68	-	0.00	28.23	4(
	400AB	2.98	13.16	13.16	Lobo Trot	Roll (4")	1.0	0.33	2.5	0.43	S7 & S8	13.16	0.00	
	400AC	1.43	6.32	18.94	Running Bear	Std. (8")	6.0	0.31	5.5	0.78	•	0.00	18.94	4
	400AD	2.64	11.66		Cougar Run 40' FF		1.0	0.61	4.0	0.86	S23 & S24	58.83	0.00	_
	400AG	2.83	12.50	22.21	Rock Squirrel	Std. (8")	3.4	. 0.38	4.6	0.71	•	0.00	22.21	4
	400AH	0.24	1.06	37.70	Rock Squirrel	Std. (8 ⁱⁱ)	Sump				S5 & S6	37.70	0.00	ļ., .
	400AI	0.34	1.50	12.61	Sandia Sunset	Std. (8")		0.38	2.5	0.48		0.00	12.61	4
	400AJ	1.95	8.61	26.98	Sandia Sunset	Std. (8")	1.4	0.52	4.4	0.82	S3 & S4	26.98	0,00	L

ARRO 400AH . 25 R 68-163 R

1 640-640

C3 - 524

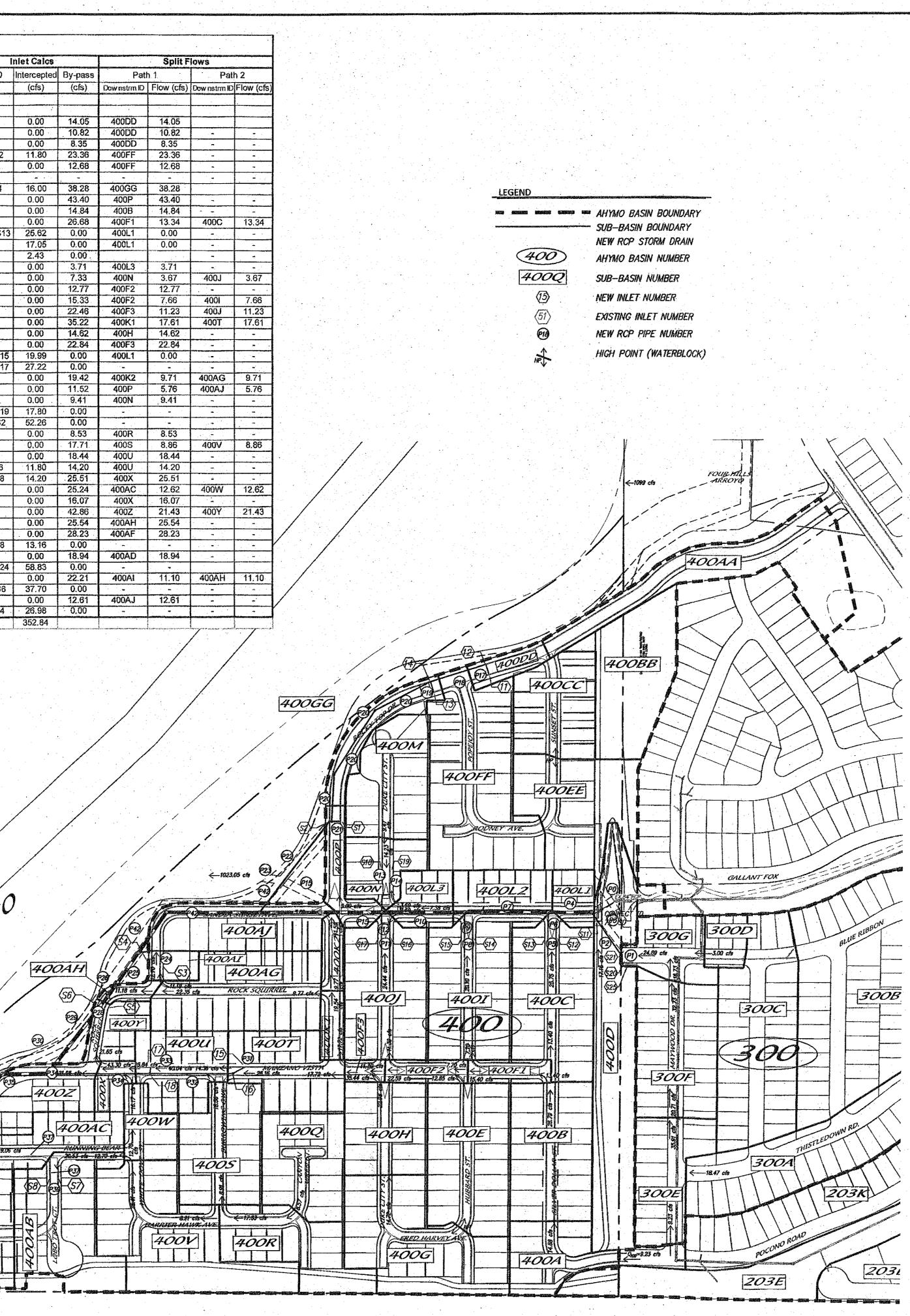
1

1.

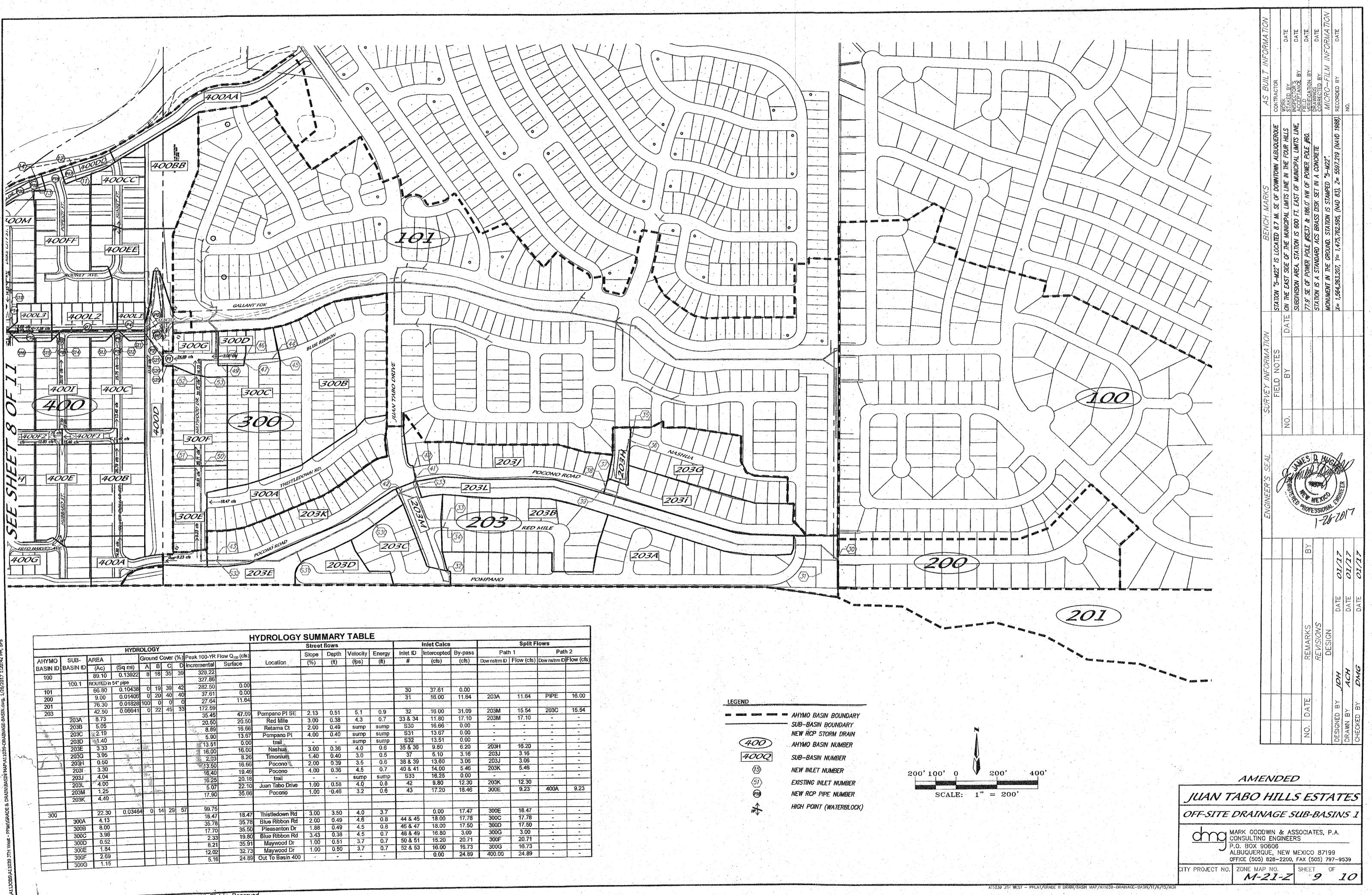
(56)-

400AC

Copyright © 2017 D. MARK GOODWIN & ASSOCIATES, P.A. All Rights Reserved



นสระชาตรามสาวาท ค.ศ.ศ.ศ. 1996 (1997) (1997) นสระชาตราย		C+-		Iroin	Cir	stom 1	Deeian	กระการสารทาง และ เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็นสาราช เป็น	स्टार्ट्स कोंग्रे भार्षिये की विश्वकीयों की की को का	alvelandaring and a second	INFORMA		DATE	DATE	DATE	DATE	INFORMA	DATE	м .
		JIC			i i i		Design	PPEBA	AREA of	VELOCITY	T INH				۲		-		
TREET NAME Gallant Fox		Q (cfs)	PIPE#	%		(ofs) 848.57	CAPACITY 930.11	(IN) 84	91PE 38.48	<pre>(ft/sec) 22.05</pre>	BUIL	TOR	3, j	INSPECTOR'S ACCEPTANCE BY	JON - B	ED BY)– <i>F</i> 1 <u>/</u>	DВY	
Blue Ribbon Tract J	S20 S21	12.44 12.45	P1 P2		5.00	12.45 24.89	87.61	24	3.14	7.92	AS E	CONTRACTOR	KED	PECTO SEPTA	D IFICAT	AWING!	MICRO	RECORDED	
Tract J India Sunset	S11	17.05	P3 P4		1.00	41.94 890.51	66.69 903.40	36 84	7.07 38.48	5.93 23.14		8	STA	ACC	HEI VER	COR/	W.		2 Z
Silver Dollar Silver Dollar	S12 S13	12.81	P5		2.00	12.81 25.62	14.85 31.99	18 18	1.77 1.77	7.25 14.50		UE	S	LINE,				1988).	
andia Sunset Hubbard	S14	10.00	P7 P8		2.20	916.13 10.00	947.49 14.85	84 18	<u>38.48</u> 1.77	23.81 5.66		ALBUQUERQUE	王王	LIMITS L	#60.			anin)	
Hubbard andia Sunset	S15	9.99	P9 P10		2.00	19.99 936.12	31.99 1690.11	18 84	1.77	11.31 24.32		ILBUG	FOUR		POLE	RETE	а.		
Duke City Duke City	S16 S17	13.61 13.61	P11 P12		1.50 1.20	12.22 24.44	12.86 24.78	18 24	1.77 3.14	6.92 7.78			THE	MUNICIPAL	POWER POLE	CONCRETE	"5-M22".	5597.219	
Duke City Duke City	S18 S19	8.90 8.90	P13 P14		1.00	8.90 17.80	10.50 22.62	18 24	1.77 3.14	5.04 5.67		DOWNTOWN	VE IN	1 5	8	\mathbf{x}		2= 5	
andia Sunset Rocky Top	10 11	6.60 5.90	P15 P17	4	4.00 1.50	978.36 5.90	1277.60 12.86	84 18	38, 4 8 1.77	25.42 3.34	RXS	OF D(TS LINE	ST OF	NW C	SET IN	STATION IS STANPED	83),	
Rocky Top Rocky Top	12 13	5.90 8.00	P18 P19	2	2.00	11.80 8.00	14.85 14.85	24 18	3.14 1.77	3.76 4.53	MARK	SE	LIMITS	I. EAST	186.0' NW	XSIO	IS SI	(NAD	
Rocky Top Rocky Top	14 \$1	8.00 26.13	P20 P21		1.50	27.80	27.70 27.70	24 24	3.14 3.14	8.85 8.32		7 M.	MUNICIPAL	600 FT.	\$	RASS	NOIL		
Rocky Top andia Sunset	<u>\$2</u>	26.13 6.60	P22 P23		0.50	80.06 1023.05	101.54 1119.91	48 96	12.57 50.27	6.37 20.35	BENCH	ED 8.	WOW	হ	#SE37	ACS BRASS DISK		1,475,762.595,	
andia Sunset	S3 S4	13.49 13.49	P24 P25	1	1.00	13.49 26.98	22.62	24	3.14 3.14	4.29 8.59		OCATED	JHE .	A TION		PD A	anno	1,47	
andia Sunset ock Squirrel	\$5	18.85	P26 P28	1	1.00	62.35 19.02	66.69 31.99	24 36 24	7.07 3.14	8.82 6.05		" IS I	NE OF	4. STA	ER PC	STANDARD	E GR	見	
ock Squirrel	S6	18.85	P29 P30		1.00	100.22	100.60 100.60	42	9.62 9.62	10.42 10.42		*5-M22*	ST SIDE	AREA.	: L) .1	A ST	HL NI	1,564,263.207,	
anzano Vista Inzano Vista	15 16	5.90 5.90	P31 P32		2.00	5.90		18 18	1.77 1.77	3.34 6.68			E EAST	NOISI	E OF	N IS	ENT .	64,26	
anzano Vista anzano Vista anzano Vista		7.10	P33 P34		2.00	7.10		18 18 24	<u>1.77</u> 3.14	4.02		STATION	ON THE	SUBDIVISION	77.9' SE OF	STATION IS A		X= 1,5	
anzano Vista Lobo Trot	\$7	6.58	P35 P36	1	1.00	126.22 6.58	143.60	48	12.57	10.04 3.72	:	S	£	S	N	S	1	<u>×</u> -	
Lobo Trot anzano Vista	<u>S8</u>	6.58	P37 P38		1.00	13.16 139.38	22.62 143.60	24 48	3.14 12.57	4.19			DATE						
ugar Run St CP" Into Arroyo	S23 & S24	58.83	P39 P40		1.10	198.21 139.94	206.30 143,60	54 48	15.90 12.57	12.46 11.14	NOIT								
Q @ 48" RCP Q @ 96" RCP	· ·		P41 P42		1.00	58.27 35.37	66.69 410.10	36 30	7.07	8.24 7.21	INFORMA	TES							
	I						<u>499 - 68 - 769 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799 - 799</u>			•	VF0	NO	і Ш						
						:		•				ELD	•						
•	•								1		1								
	· •	1.21		:		an tha					14	L.L				[1	
:											SURVE)						
					· ·					•	ANDS		NO.						
											VRV		NO.						
													NO.						
											SEAL SURV		NO.		55). H	VG		7
											S SEAL				D	Ń	VG	2 MK	7
											S SEAL				D	Ń	VG		7
											S SEAL				D	The say	JG A CONTRACTOR		
											S SEAL			A A A A A A A A A A A A A A A A A A A	D	The say	La anti- 26		
											S SEAL			A A A A A A A A A A A A A A A A A A A	D	The say	100 m 20		
											S SEAL				D	The say	JG AN AN TO		
											S SEAL				D Charles	The say	Jan and The	11/	19
											S SEAL				D Charles	The say	13 2 2 m 2	11/	
											S SEAL				D Charles	The say		21/10	17
											S SEAL				D Charles	The say		21/10	17/10
											S SEAL				BY W	MEX I		21/10	ALE OULL
											S SEAL				BY W	MEX I		21/10	17/70
											S SEAL				BY W	MEX I		21/10	17/70
											S SEAL				BY W	S S		21/10	17/70
											S SEAL				BY W	MEX I		DATE OI/I7	DAIE 01/1
											S SEAL				BY W	MEX I		21/10	DAIE 01/1
				2		100		εόο	40		S SEAL				REMARKS BY OF A	MEX I	DESIGN	JDH DATE OI/17	Very UAIE 01/1/
				2			l . Malaziewa zak				S SEAL				BY W	MEX I	DESIGN	BY JDH DATE OI/I7	North National Nation
				20			l . Malaziewa zak	200			S SEAL				DATE REMARKS BY OF A	MEX I	DESIGN	BY JDH DATE OI/I7	N VCI VCI DAIE 01/1/
				2			l . Malaziewa zak				S SEAL				REMARKS BY OF A	MEX I	DESIGN	BY JDH DATE OI/17	N VII OI/I
	8			2	90 1		l . Malaziewa zak				S SEAL				DATE REMARKS BY OF A	MEX I	DESIGN	BY JDH DATE OI/I7	N VII OI/I
				20			l . Malaziewa zak				S SEAL				DATE REMARKS BY OF A	MEX I	DESIGN	BY JDH DATE OI/I7	
							l . Malaziewa zak			Э0	ENGINEER'S SEAL				DATE REMARKS BY OF A	MEX I	DESIGN	BY JDH DATE OI/I7	
				2			l . Malaziewa zak	= 20	0'	AM	ENGINEER'S SEAL				NO. IDATE REMARKS	KENSIONS -	DESIGN	DESIGNED BY JOH DATE OI/I7	Allower of the UALE OLITI
				2			l . Malaziewa zak	= 20	0'	AMI TABC	ENGINEER'S SEAL				E NO. IDATE REMARKS	STONS I	DESIGN	N DESIGNED BY JOH DATE 01/17	CHECKED DV TEN DATE OUT 1
				2			l . Malaziewa zak	= 20	0'	AM	ENGINEER'S SEAL				E NO. IDATE REMARKS	STONS I	DESIGN	N DESIGNED BY JOH DATE 01/17	CHECKED DV TEN DATE OLIVIE
	8						l . Malaziewa zak	= 20	0'	AMA TABC DRA	ENGINEER'S SEAL			5 5 5 5 5 5	A BY BY BY BY BY BY	STONS I	DESIGN	C DESIGNED BY JOH DATE 01/17	CHECKED DV TEN DATE OUT 1
							l . Malaziewa zak	= 20	0'	AMI TABC TDRA	ENGINEER'S SEAL			SSOC RS	E S IS	SNOISINAA ES,	DESIGN	N N DATE OI/17	



							, ,		1	HYDROLOGY	SUM	MARY	TABL	E			10 ye 1 mar 1 a dan waxay waxaa da da da da da da				
							Street flows						Inlet Calcs		Split Flows						
HYDROLOGY AHYMO SUB- AREA Ground Cover (%) Peak 100-YR Flow Q ₁₀₀ (cfs)							low O (cfs)	an de la gran de la décimiente de la constante	Slope	e Depth	Velocity	Energy	Inlet ID	Intercepted	By-pass	Pati	n 1	Path 2			
AHYMO	SUB-	AREA		Grour	a constant of the local division of the loca		%) F	eak 100-tk r	Surface	Location	(%)	(ft)	(fps)	(ft)	#	(cfs)	(cfs)	Dow nstrm ID	Flow (cfs)	Dow nstrm I	Flow (
ASIN ID	BASIN ID	(Ac)	(Sq mi)	A	В	С		ncremental	Sunace	Loounon		<u></u>		Concernant and the second	erent des aussie erenden um des			a da manana ang kanang da kang			
100		89.10	0.13922	8	18	35	39	328.22													
100	100.1	ROUTED in	54" pipe					327.86	0.00	4							· · · · · ·				
101		66.80	0.10438	-	-	39	42	282.50	0.00						30	37.61	0.00				
200		9.00	0.01406		20	40	40	37,61	11.64						31	16.00	11.64	203A	11.64	PIPE	16.
201		76.30	0.01828		0	0	0	27.64	11.04				-								·
203		42.50	0.06641	. 0	22	45	33	172.59	47.09	Pompano PI SE	2.13	0.51	5.1	0.9	32	16.00	31.09	203M	15.54	203C	15
	203A	8.73						35.45	20.50	Red Mile	3.00	0.38	4,3	0.7	33 & 34	11.80	17.10	203M	17.10		
19. 19.	203B	5.05		194				20.50	16.66	Retama Ct	2.00	0.49	sump	sump	S30	16.66	0.00	-	-	<u> </u>	
	203C	2.19						5.90	13.67	Pompano Pl	4.00	0.40	sump	sump	S31	13.67	0.00	-		-	-
17	203D	1.40						13.51	0.00	trail	-		sump	sump	\$32	13.51	0.00	-		-	
	203E	3.33				<u>_</u>		16.00	16.00	Nashua	3.00	0.36	4.0	0.6	35 & 36	9.80	6.20	203H	16.20	-	
4	203G	3.95	3					2.03	8.26	Timonium	1.40	0.40	3.0	0.5	37	5.10	3.16	203J	3.16	-	
1	203H	0.50	74			· · · · · · · · · · · · · · · · · · ·		13.50	16.66	Pocono	2.00	0.39	3.5	0.6	38 & 39	13.60	3.06	203J	3.06		-
<u> </u>	2031	3.30			<u> </u>			16.40	19.46	Pocono	4.00	0.36	4.5	0.7	40 & 41	14,00	5.46	203K	5.46		
	203J	4.04						16.25	20.18	trail	-	-	sump	sump	533	16.25	0.00	-	-		
	203L	4.00					i	5.07	22.10		1.00	0.58	4.0	0,8	42	9,80	12.30	203K	12.30	400A	9
	203M	1.25	1	and all	. Starten a	<u></u>	<u>, 1</u>	17.90	35.66	and the second se	1.00	0.46	3.2	0.6	43	17.20	18.46	300E	9.23	400A	9
	203K	4.40		-	 						•						<u> </u>		ļ		
				1-0	14	20	57	99.75									17.47	300E	18.47		
300		22.30	0.0348	4 0	14	25	- 01	18.47	18.47	Thistledown Rd	3.00	3.50	4.0	3.7		0.00	17.78	300E	17.78		-
	300A	4.13		<u>_</u>				35.78	35.78	Blue Ribbon Rd	2.00	0.49	4.6	0.8	44 & 45	18.00	1	300C	17,50		+
	300B					<u>↓</u>		17.70	35.50	Pleasanton Dr	1.88	0.49	4.5	0.8	46 & 47	18.00	17.50	300D 300G	3.00	+	+
	300C	and the second s						2.33	19.80		3.43	0.38	4.5	0.7	48 & 49	16.80	20.71	300G	20.71		
	300D			+				8.21	35.9		1.00	0.51	3.7	0.7	50 & 51	1	16.73	300G	16.73		
	300E							12.02	32.73		1.00	0.50	3.7	0.7	52 & 53	0.00	24.89	400.00	24.89		
	300F	2.69						5.16	24.8	Out To Basin 400	. - 1		-		1	1.0.00	L 24.00	400.00	1 47.00		

Copyright © 2017 D. MARK GOODWIN & ASSOCIATES, P.A. All Rights Reserved.

a starter

