## CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



February 5, 2020

Ron Hensley, P.E. THE Group 300 Branding Iron Rd. SE Rio Rancho, NM 87124

RE: Sage Park Subdivision
Sage and Coors SW
Grading and Drainage Plan
Engineer's Stamp Date: 1/30/20
Hydrology File: L10D030

Dear Mr. Hensley,

PO Box 1293

Based on the submittal received on 1/31/20, this Grading and Drainage Plan cannot be approved until the following corrections are made:

#### Prior to Preliminary Plat and Grading Permit:

Albuquerque

NM 87103

www.cabq.gov

- 1. The site must demonstrate adequate downstream capacity per § 14-5-2-12(G) of the Albuquerque Code of Ordinances. This includes County permission for the work on their property and the right to discharge, as well as the hydraulic capacity. I cannot find any record of what the pond's function is or what areas it was built to serve, but it appears to be County owned and maintained. Any reports from the County used to show downstream capacity should be included in the resubmittal.
- 2. Complete Hydrologic (AHYMO files) and Hydraulic calculations need to be provided. The summary of results is helpful, but needs to be supported with all the underlying calculations, most likely in a bound Drainage Report.
- 3. Street capacity calculations must show the water surface (HGL) contained in the road (top of curb) and the EGL contained in the ROW (most likely edge of sidewalk to edge of sidewalk). Standard curb and gutter or additional storm drain is probably needed in a few areas.
- 4. The Hydrologic and Hydraulic analysis needs to include the upstream offsite basins. Notably, the area north of San Ignacio and the area between this subdivision and Amole Del Norte Diversion Channel.
- 5. Provide waterblocks, 0.87' minimum (or energy and flow depth calculations) for the following intersections: San Ignacio & Thyme, Parsley & Sage.

### CITY OF ALBUQUERQUE

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- 6. On the Plat, provide a drainage easement over the ponds and annotate using the <u>Plat Drainage</u> Easement Note. This note replaces the need for a separate drainage covenant.
- 7. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.
- 8. Additional comments may be forthcoming, based on the outcome of the above remarks and level of detail shown on plans.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services



January 30, 2020

Hydrology Development City of Albuquerque PO Box 1293 Albuquerque, NM 87103

Re: Sage Park Subdivision – Grading and Drainage Plan

We are requesting a review of the attached plan and report in support of the Preliminary Plat and Grading Permit of Sage Park Subdivision and the construction of required improvements. The subdivision is a replat of "Tract 401, Town of Atrisco Grant, Unit 3" submittal covers the impact of the development on existing drainage infrastructure. We are requesting a review for compliance with City requirements.

Please contact me at 410-1622 or via email if you have any questions or comments.

Sincerely,

Ron E. Hensley P.E. ron@thegroup.cc



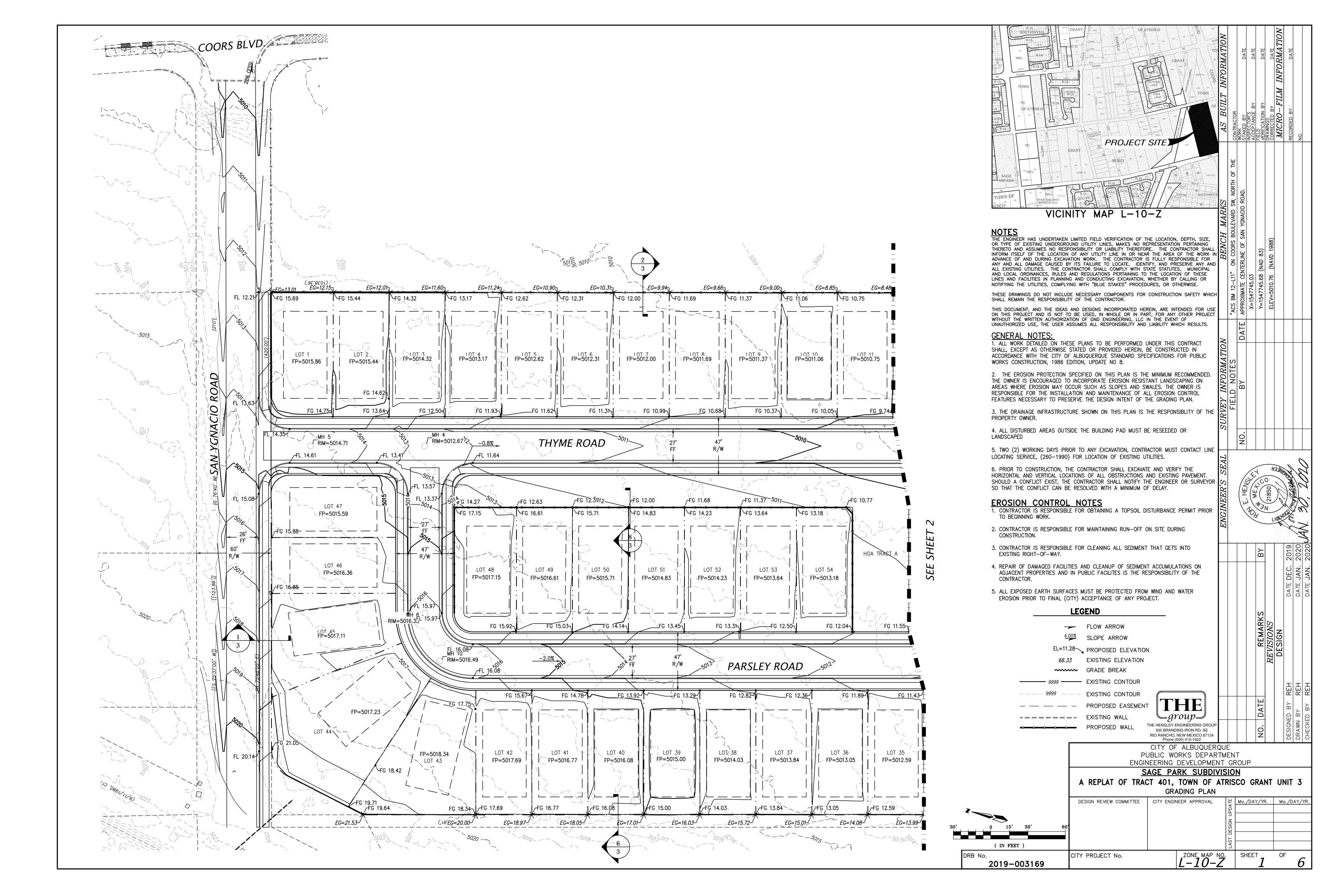
### City of Albuquerque

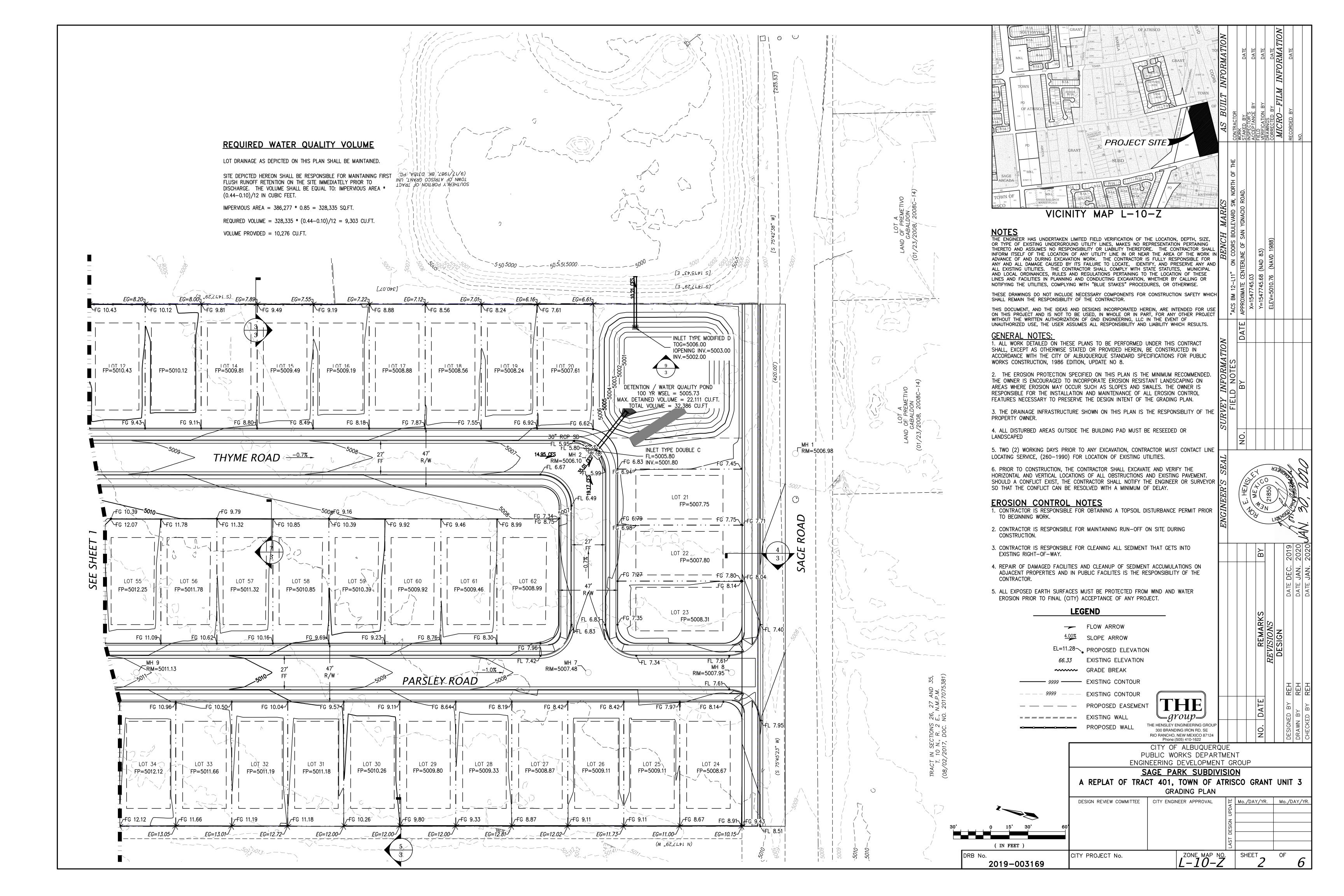
# Planning Department Development & Building Services Division

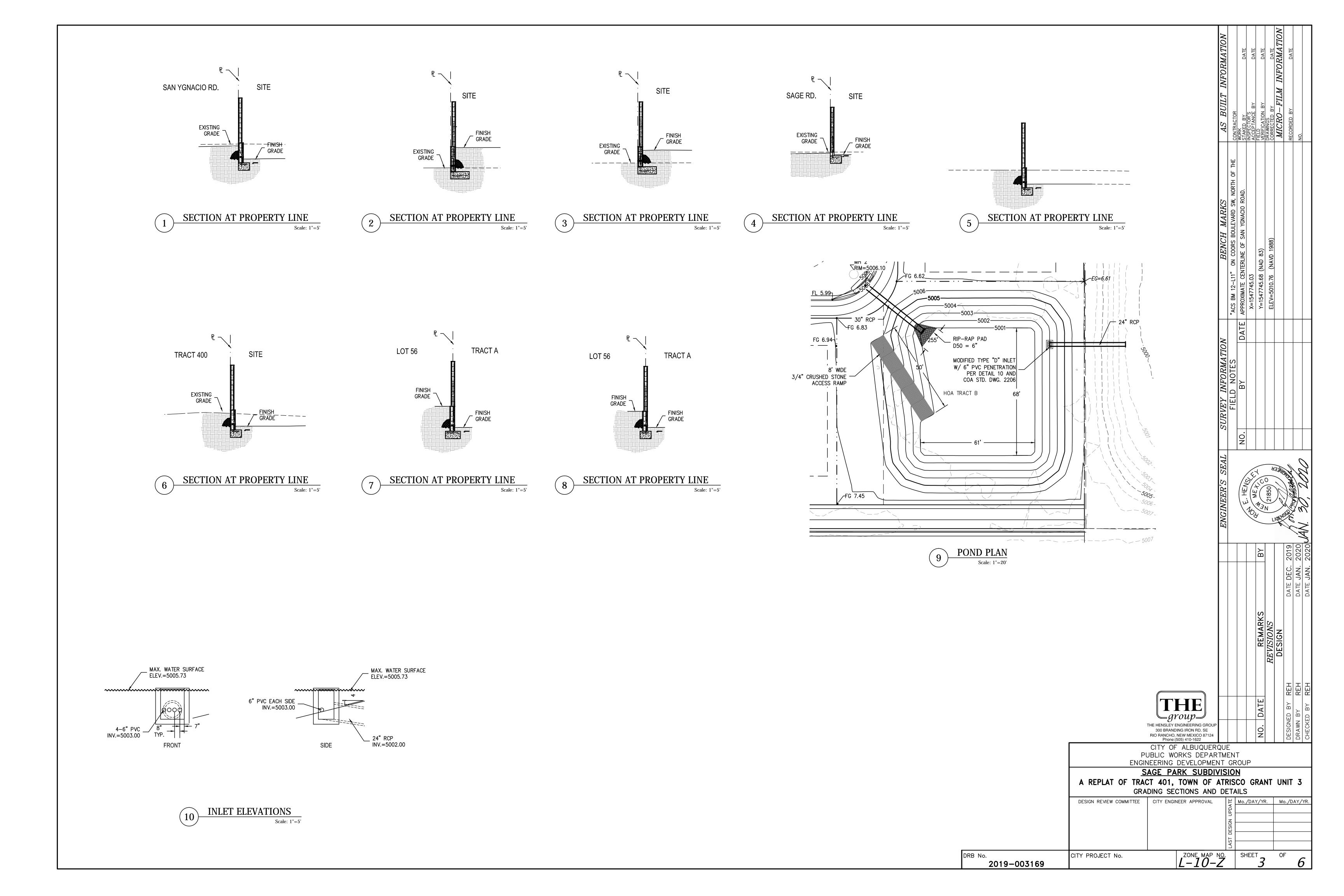
#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

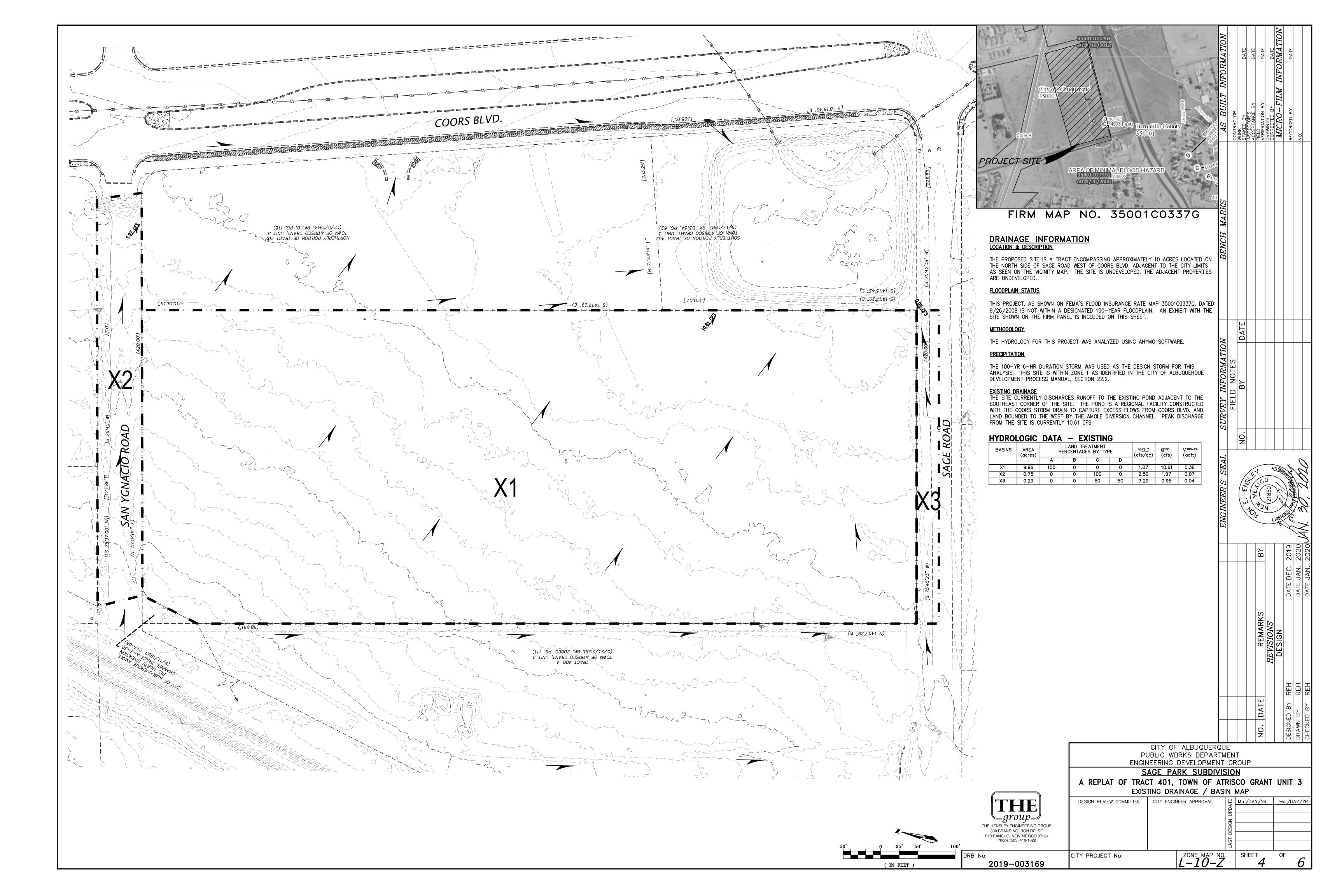
Project Title: SAGE PARK SUBDIVISION	Building Permit #	Hydrology File #: L10
DRB#: 2019-003169	EPC#:	Work Order#:
Legal Description: TRACT 401, TOWN OF A		
City Address: SAGE SW		
Owner: CLEARBROOK LLC Address: 8801 Jefferson NE Bldg. A, ALBUQUE	, NM 87124Fax#:	
Check all that Apply:  TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTIFICATION  PAD CERTIFICATION  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE MASTER PLAN	ION -	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
DRAINAGE REPORT  FLOODPLAIN DEVELOPMENT PERMIT  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TO  TRAFFIC IMPACT STUDY (TIS)  OTHER (SPECIFY)  PRE-DESIGN MEETING?	T APPLIC  CL)  — — — — — — — — — — — — —	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: 1/30/19		Ron Hensley
COA STAFF:	ELECTRONIC SUBMI	TTAL RECEIVED:

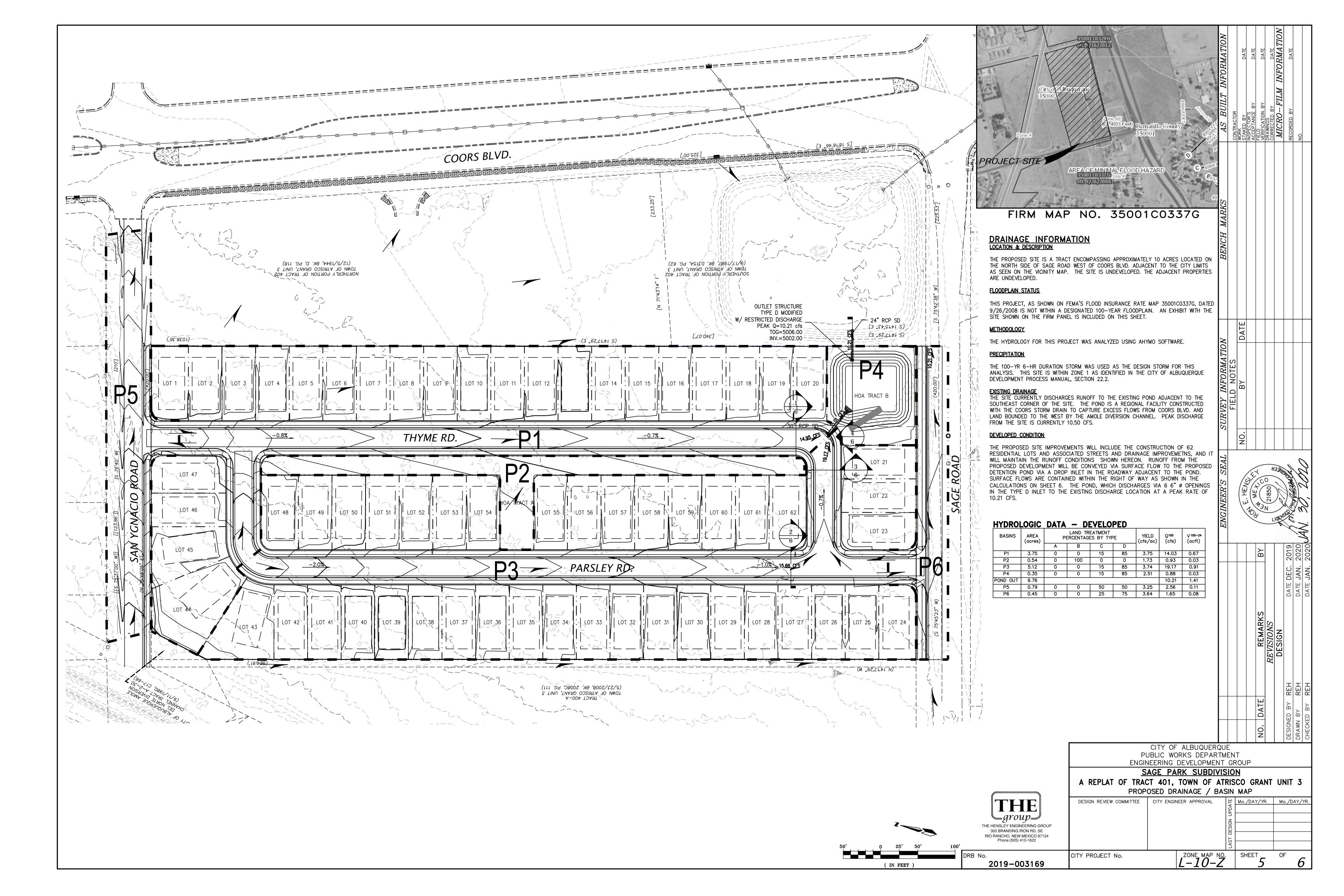
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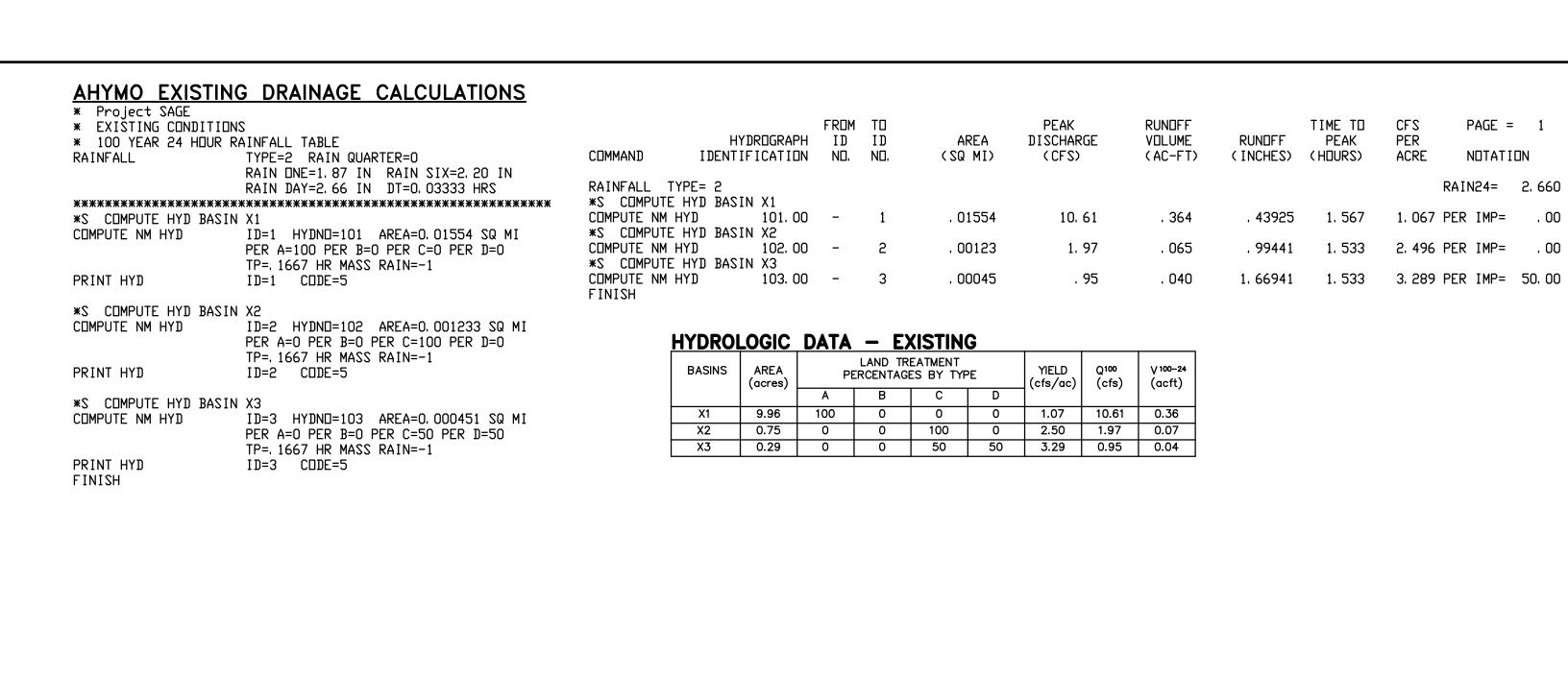












AHYMO PROPOS	ED DRAINAGE CALCULATIONS
* Project SAGE  * PROPOSED Conditions  * 100 YEAR 24 HOUR RARAINFALL	
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*S COMPUTE HYD BASIN COMPUTE NM HYD	P1 ID=1 HYDND=201 AREA=0.005854 SQ MI PER A=0 PER B=0 PER C=15 PER D=85 TP=.1667 HR MASS RAIN=-1
PRINT HYD	ID=1 CDDE=5
*S COMPUTE HYD BASIN COMPUTE NM HYD	P2 ID=2 HYDND=202 AREA=0.000837 SQ MI PER A=0 PER B=100 PER C=0 PER D=0 TP=.1667 HR MASS RAIN=-1
PRINT HYD	ID=2 CDDE=5
*S COMPUTE HYD BASIN COMPUTE NM HYD	P3 ID=3 HYDND=203 AREA=0.008001 SQ MI PER A=0 PER B=0 PER C=15 PER D=85 TP=.1667 HR MASS RAIN=-1
PRINT HYD	ID=3 CDDE=5
*S COMPUTE HYD BASIN COMPUTE NM HYD	P4 ID=4 HYDND=204 AREA=0. 000551 SQ MI

	PER A=0 PER B=0 PER C=100 PER D=0 TP=. 1667 HR MASS RAIN=-1
PRINT HYD	ID=4 CDDE=5
*******	****************
ADD HYD	I D=11 HYDN□=301
	ID=1 ID=2
PRINT HYD	ID=11 CODE=5
ADD HYD	ID=12 HYDND=302
	ID-11 ID-2
	ID=11 ID=3
PRINT HYD	ID=12 CDDE=5
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PRINT HYD	ID=12 CODE	=5		
ADD HYD	ID=13 HYDN			
PRINT HYD	ID=12 ID=4 ID=13 CODE			
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	0, 02	0. 2214	5002. 9	
	0, 30	0. 2359	5003. 0	
	2, 88	0. 3124	5003. 5	
	5. 28	0. 3965	5004. 0	
	7. 11	0. 4886	5004. 5	
	8, 52	0. 5888	5005. 0	
	9. 72	0. 6976	5005. 5	
	10. 14	0. 7435	5005. 7	
	10. 80	0. 8150	5006	
	11. 76	0. 9510	5006, 5	
	PRINT HYD		ID=20 CDDE=5	

\*S COMPUTE HYD BASIN P5

COMPUTE NM HYD ID=5 HYDNO=205 AREA=0.001233 SQ MI

PER A=0 PER B=0 PER C=50 PER D=50 TP=. 1667 HR MASS RAIN=-1

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\*S COMPUTE HYD BASIN P6 COMPUTE NM HYD

ID=6 HYDND=205 AREA=0.000709 SQ MI

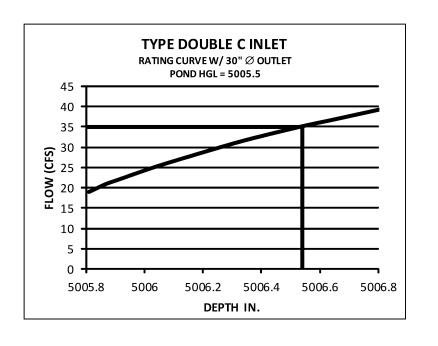
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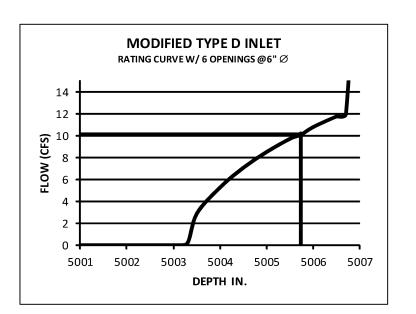
PRINT HYD ID=6 CDDE=5

FINISH

COMMAND	HYDROGRAPH IDENTIFICATION	FR□M ID N□.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNDFF VDLUME ( AC-FT)	RUN□FF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE =	
	YPE= 2									RAIN24=	2, 660
<b>*</b> S C□MPUTE	HYD BASIN P1										
COMPUTE NM	HYD 201. 00	_	1	. 00585	14. 03	. 669	2. 14164	1. 533	3, 745	PER IMP=	85, 00
<b>*</b> S C□MPUTE	HYD BASIN P2										
COMPUTE NM	HYD 202, 00	_	2	. 00084	. 93	. 030	. 66738	1, 567	1, 734	PER IMP=	. 00
<b>*</b> S C□MPUTE	HYD BASIN P3										
COMPUTE NM		_	3	. 00800	19. 17	. 914	2, 14163	1, 533	3, 744	PER IMP=	85, 00
<b>*</b> S C□MPUTE	HYD BASIN P4										
COMPUTE NM		_	4	. 00055	. 88	. 029	. 99441	1, 533	2, 509	PER IMP=	. 00
ADD HYD	301, 00	1& 2	11	. 00669	14, 95	. 698	1. 95721	1, 533	3, 491		
ADD HYD			12	. 01469	34, 12	1, 612	2, 05764	1, 533	3, 629		
ADD HYD	303, 00	12& 4	13	. 01524	35, 01	1, 642	2, 01920	1, 533	3, 588		
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1 1141211											

<b>HYDROL</b>	<u> OGIC</u>	DATA	- DI	EVELO	PED			
BASINS	AREA (acres)	Pf		EATMENT ES BY TYF	YIELD (cfs/ac)	Q100 (cfs)	∨100-24 (acft)	
	`	Α	В	С	D	]` ´ ´	` ,	` ′
P1	3.75	0	0	15	85	3.75	14.03	0.67
P2	0.54	0	100	0	0	1.73	0.93	0.03
P3	5.12	0	0	15	85	3.74	19.17	0.91
P4	0.35	0	0	15	85	2.51	0.88	0.03
POND OUT	9.76		•			•	10.21	1.41
P5	0.79	0	0	50	50	3.25	2.56	0.11
P6	0.45	0	0	25	75	3.64	1.65	0.08





PAGE = 1

NOTATION

