

October 3, 2017

Åsa Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: Campbell Compound

Drainage Report and Grading Plan Engineer's Stamp Date 9/26/17 Hydrology File: G13D032

Dear Ms. Nilsson-Weber:

Based on the information provided in the submittal received on 9/26/17 the above-referenced submittal cannot be approved for Preliminary Plat or Grading Permit until the following are addressed:

PO Box 1293

Prior to Preliminary Plat:

Albuquerque

1. Subbasin A needs to include the Campbell Rd half street area and the ponds on tract B & C need to be sized to include this volume.

NM 87103

2. Section E-E on sheet 2/2 shows the retaining wall/privacy wall encroaching across the property line. Correct to show on only Campbell Compound's property.

3. Separate Section F-F into two viewports for the different cases. Clearly show that the footer stays off the adjacent property.

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- 4. Modifying an existing privacy wall into a floodwall is not an acceptable course. If a floodwall is desired, a new one will need to be designed and built (Section Y-Y).
- 5. Modifying an existing privacy wall into a retaining wall is not an acceptable course. A new wall will need to be designed and built (Section G-G).
- 6. Written permission from Campbell Farms HOA will need to be obtained, authorizing any modifications to the common wall. If portions of the wall are owned/maintained by Campbell Farms Lot 11, written permission from that homeowner will be needed as well.
- 7. the rear-yard retaining wall needs to be 4" (minimum) above the high point of the rear-yard swale invert to promote drainage away from the rear wall and to the front yard (Section B-B and G-G).

Orig: Drainage file

Albuquerque - Making History 1706-2006



- 8. The Infrastructure list will need to include the Tract B and Tract C ponds with agreement and covenant.
- 9. Provide a drainage easement over the Tract B and Tract C ponds on the preliminary plat.

Prior to Grading Permit:

10. This project will require an ESC plan prior to grading permit approval.

Prior to DRC Sign-off:

11. A Drainage Covenant is required for the commons area pond and an Agreement and Covenant is required for the Tract B and C Ponds. The original notarized forms, pond exhibits, and recording fees (\$25/ea., payable to City of Albuquerque) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.

Prior to Hydrology approval for Release of Financial Guarantee, the Drainage Covenants must be recorded with Bernalillo County and a copy included with the drainage certification. If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

PO Box 1293

Albuquerque

NM 87103

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Sincerely,

Dana Peterson, P.E.

Senior Engineer, Planning Dept.

Development Review Services

SEPTEMBER 26, 2017

DRAINAGE REPORT

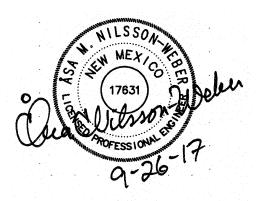
FOR

CAMPBELL COMPOUND

A 7-DWELLING UNIT SINGLE-DETACHED RESIDENTIAL PRIVATE COMMONS DEVELOPMENT

ALBUQUERQUE, NEW MEXICO

BY



ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

Thomas O. Isaacson, PE & LS Fred C. Arfman, PE Åsa Nilsson-Weber, PE

I&A Project No. 2224

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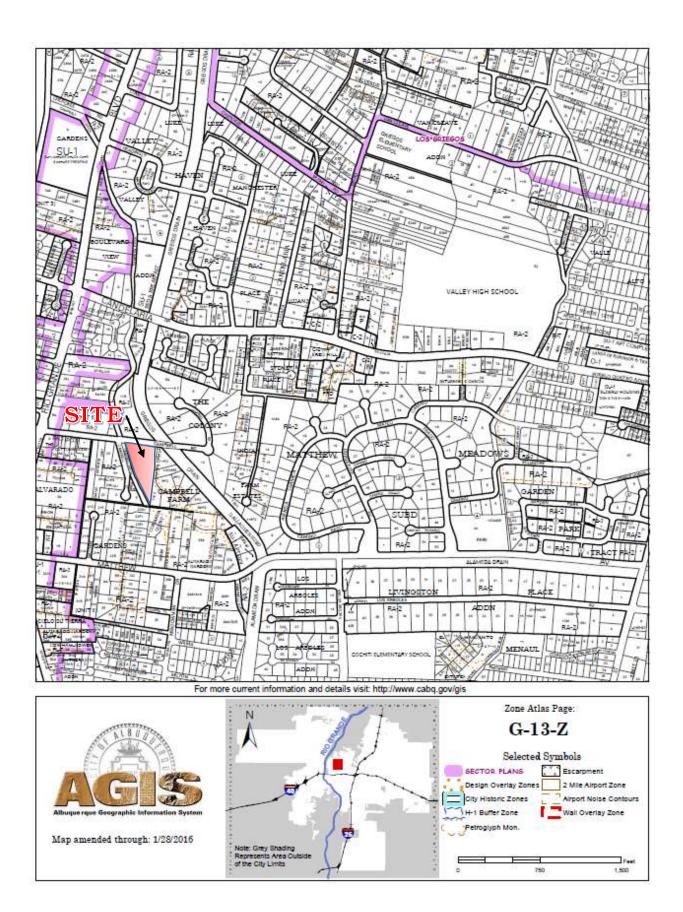
Basin Flow Calculations and 100yr-10-day Ponding Volume Calculations Pond Capacity Calculations

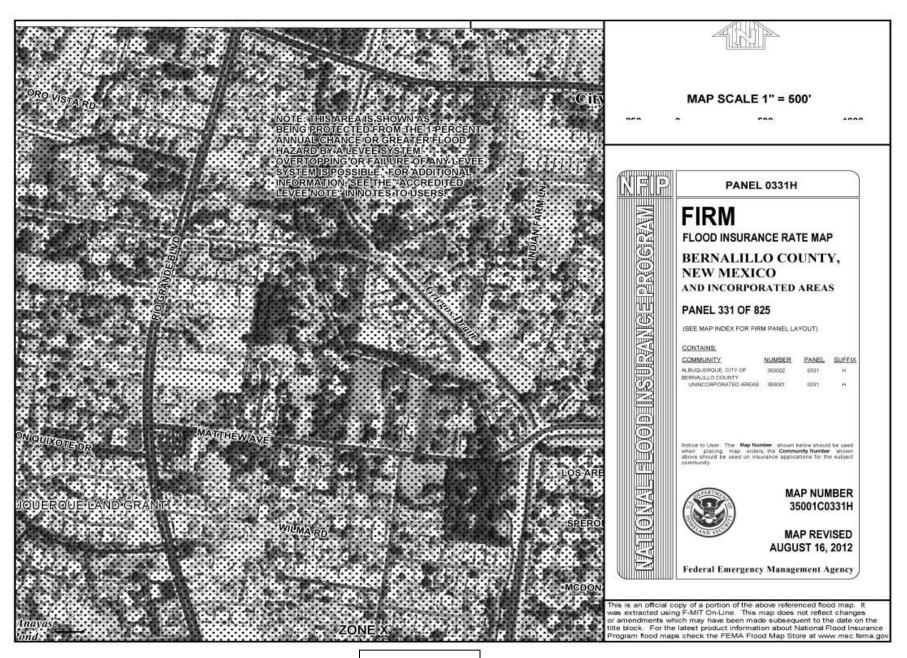
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Grading Plan





FIRM MAP

I. PROJECT INFORMATION

PROPOSED LEGAL DESCRIPTION:

Campbell Compound

EXISTING LEGAL DESCRIPTION:

A portion of Lots 18 & 19, Alvarado Gardens, Unit 3

ENGINEER: Isaacson & Arfman, P.A.

128 Monroe Street NE Albuquerque, NM 87108

(505) 268-8828

Attn: Åsa Nilsson-Weber

SURVEYOR: Cartesian Surveys, Inc.

(505) 896-3050

Attn: Will Plotner, Jr., NMPLS No. 14271

DEVELOPER: Las Ventanas, NM, Inc.

Attn: Scott Ashcraft

NUMBER OF PROPOSED DWELLING UNITS: 7

TOTAL AREA: 2.0808 Ac.

FLOOD PLAIN: This property lies within flood Zone X which is defined as areas of 0.2%

annual chance; area of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual change flood. As determined by FEMA and shown on Flood Insurance Rate Map dated August 16, 2012, Map No. 35001C0331H.

II. INTRODUCTION

This site is a private residential lot located east of Rio Grande Blvd and south of Campbell Rd. and is bound on the west by the Campbell Ditch and on the east by Campbell Farm, a private, gated residential development. The site will be re-developed as a private commons development with seven detached residential homes with the south one-third of the site remaining undeveloped and dedicated as an open space area. There are also two open space tracts along Campbell Rd.

III. EXISTING CONDITIONS

The upper two thirds of the site is developed with a private residence and a couple of outbuildings. The lower one third of the site is undeveloped and encumbered by large trees and native vegetation. The site is flat and drainage ponds on the property.

Campbell Rd. slopes to the east at approximately 0.1-0.4 percent and drainage is carried to the east in a swale within the shoulder. The road has no curb and gutter or sidewalks east of Campbell Ct., which is located west of the Campbell Ditch. There are shoulders on both sides of the street that are used by pedestrians and bicyclists.

There is a walking path on top of the berm between the site and the Campbell Ditch that is elevated approximately six feet above the site. A pipe is located under the existing drive to the residence that provides irrigation water to a ditch along the frontage of the property and the site. The ditch is blocked by the entrance to Campbell Farm, so no irrigation water enters this subdivision.

IV. PROPOSED CONDITIONS

The site will be developed as a gated residential private commons development. The upper two thirds of the site will be developed with seven detached residential homes and the lower one third, Tract A, will remain undeveloped and be designated as open space (private commons area). Kayla Ln. will slope to the south and direct the flows to the south open space tract which will serve as a retention pond. A water block at the north end of Kayla Ln. will prevent water from Campbell Rd. to enter the site. There will be onsite 4-foot sidewalks along Kayla Ln. extending to the driveways at lots 4 and 5, and a connection to the Campbell Rd. sidewalk via a pedestrian gate on the west side of the Kayla Ln. entrance.

Campbell Rd. will remain as a rural-type road with no curb and gutter and a crusher fine sidewalk to preserve and complement the surrounding neighborhood aesthetics. The existing culvert

from the Campbell Ditch will be capped, and the existing water meter shall be used to irrigate the trees in the front landscape areas (Tracts B & C).

The grading & drainage plan is included in the back pockets of this report.

LAND TREATMENTS & BASIN AREAS

Land treatment percent D was calculated for the developed area based on the building pad areas and roadway areas, and the remaining area was split between land treatments B and C. See Appendix A for land treatment calculations and basin area table and Appendix C for a drainage basin exhibit.

Appendix B includes the 100-year, 6-hour flows calculations using the equations from the Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993. The Drainage Basin Exhibit in Appendix C shows the flow rates for each basin.

Flows from Basins B & C (6.3 cfs) will be ponded in the south open space tract, Tract A, and Basin A will discharge 0.4 cfs to Tracts B & C adjacent to Campbell Rd.

STREET CAPACITY

HYDROLOGY

Kayla Ln. will be a private, paved 24-foot wide road and will have an inverted crown with an alley gutter and mountable estate curb defining the edges. The entrance will be gated and the paving width will accommodate a turnaround for vehicles. Appendix D shows the street flow depth at the south end of the street at the hammerhead where the flows enter the open space in Tract A. Erosion protection shall be installed at the south end of the hammerhead as shown on plan.

PONDING IN TRACT A--PRIVATE COMMONS AREA

The private commons area has an existing ponding capacity of 15,980 cf at an elevation of 4966.2, which exceeds the required 10-day storm volume of 13,915 cf (Appendix B). The private commons area ponding capacity was calculated using AutoCAD Civil 3D by creating a composite comparison surface with the existing ground surface and a top-of-pond surface at elevation 4966.2. The block wall along the east edge of the private commons area shall be concrete filled to provide a water proof barrier and prevent water from entering the adjacent Campbell Farms development. Concrete shall be filled to elevation 4967.3, which is one foot higher than the finish floor of the adjacent residence in Campbell Farms.

PONDING IN TRACTS B & C

Flows from Basin A (0.4 cfs) shall pond in Tracts B & C. The required 10-day volume for storage in Tract B pond is 225 cf and ponding provided is 244 cf; required volume for Tract C pond is 419 cf and ponding provided is 452 cf.

CAMPBELL ROAD DRAINAGE

Campbell Road shall be regraded to eliminate the existing swale along the edge of asphalt and drain toward the south. The drainage from the south half of Campbell Road from the Campbell ditch (east of Campbell Ct.) where there is a highpoint in the road shall be allowed to drain to the ditch/tree area along the property line.

FIRST FLUSH REQUIREMENTS

The first flush requirement will be met by directing flows to the pond areas in Tracts A-C.

V. SUMMARY & CONCLUSIONS

The site will be developed with seven detached residential homes and a private road. Tract A will be designated as a private commons area and will remain undeveloped and utilized as a private ponding area for flows from the subdivision. Flows from Basin A shall pond in Tracts B & C, and flows from Campbell Rd. shall drain into the ditch/tree area along the property line. Agreements and covenants shall be recorded for the ponding in all tracts.

Based on this report, it is recommended that the following improvements be constructed:

- Paved street with inverted crown, alley gutter and mountable estate curb
- Four-foot wide sidewalks along Kayla Ln. and along the south side of Campbell Road.
- Retaining walls as shown on plans
- Erosion protection at south end of Kayla Ln. where water enters Tract A
- Agreements and covenants shall be recorded for the ponding areas in Tract A (private drainage easement) and Tracts B & C (public drainage easement).

APPENDIX A

Basin Area and Land Treatment Table

CAMPBELL COMPOUND

BASIN AREA AND LAND TREATMENT TABLE--PROPOSED CONDITIONS

BASIN	o d	AREA	LAND TREATMENT (%)		LAND TREATMENT (%)		
	SF	AC.	Α	В	С	D	Q100, cfs
Α	5244	0.1204	0	50	30	20	0.4
В	56073	1.2873	0	19	19	62	5.1
С	29321	0.6731	90	0	10	0	1.2
TOTAL	90638	2.0808					6.7

IMPERVIOUS AREA CALCULATION BASINS B

7 BUILDING FOOTPRINTS (45X73)= 22995 SF 7 DRIVEWAYS @ 15X20 = 2100 SF ROADWAY = 9836 SF 34931 SF

%D = 34931/(50515)= 62%

APPENDIX B

Drainage Calculations

BASIN NO.	A			DESCRIPTION		Drains to p	onds al	long Campbell R	.d
Area of basin f	lows =	5244	SF		=	0.1	Ac.		
The following	calculations	are based on Trea	tment a	reas as shown in tabl	e to the	e right	LAND	TREATMENT	
		Sub-basin Weigl	nted Exc	cess Precipitation (se	e formu	ıla above)	A =	0%	
		Weighted E	=	1.15	in.		B=	50%	
		Sub-basin Volum	ie of Ru	noff (see formula abo	ove)		C =	30%	
		V ₃₆₀	=	504	CF		D=	20%	
		Sub-basin Peak I	Dischar	ge Rate: (see formula	above)				
		$Q_{\mathbb{P}}$	=	0.4	cfs				
BASIN NO.	В			DESCRIPTION		Drains t	o pond	in open space	
Area of basin f	lows =	56073	SF		=	1.3	Ac.		
The following	calculations	are based on Trea	tment a	reas as shown in tabl	e to the	e right	LAND	TREATMENT	
		Sub-basin Weigh	nted Exc	cess Precipitation (se	e formu	ıla above)	A =	0%	
		Weighted E	=	1.68	in.		B=	19%	
		Sub-basin Volum	ie of Ru	noff (see formula abo	ove)		C =	19%	
		V ₃₆₀	=	7838	CF		D=	62%	
		Sub-basin Peak I	Dischar	ge Rate: (see formula	above)				
		Qp	=	5.1	cfs				
BASIN NO.	C			DESCRIPTION		0	pen Spa	ice Area	
Area of basin f	lows =	29321	SF		=	0.7	Ac.		
The following	calculations	are based on Trea	tment a	reas as shown in tabl	e to the	right	LAND	TREATMENT	
_		Sub-basin Weigh	nted Exc	cess Precipitation (se	e formu	ıla above)	A =	90%	
		Weighted E	=	0.59	in.		B=	0%	
		Sub-basin Volum	e of Ru	noff (see formula abo	ove)		C =	10%	
		V ₃₆₀	=	1442	CF		D=	0%	
		Sub-basin Peak I	Dischar	ge Rate: (see formula	above)				
		Qp	=	1.2	cfs				
		-							

POND IN OPEN SPACE AREA (TRACT A)

Note: For ponds which hold water for longer than 6 hours, longer duration storms are required to establish runoff volumes. Since the additional precipitation is assumed to occur over a long period, the additional volume is based on the runoff from the impervious areas only.

V ₃₆₀	9279
Area Treatment D (SF)	34765
Zone	2

For 10 Day Storms:

 $V_{10day} = V_{360} + A_D * (P_{10day} - P_{360})*43560 SF/AC$

V ₃₆₀	=	9279
A _D (SF)	=	34765
Zone	=	2
P _{10day}		3.95
P ₃₆₀	=	2.35

V ₃₆₀	=	9279
+ imp. area	=	4635

Total Pond Volume (V _{10 day})	=	13915
Total Folia Volume (VIO 62V)	_	13913

P ₃₆₀		
Zone	D	
1	2.20	
2	2.35	
3	2.60	
4	2.90	

P _{10day}		
Zone	D	
1	3.67	
2	3.95	
3	4.90	
4	5.95	

from Table A-2 Depth (inches) at 100-yr Storm

PONDING ADJACENT TO CAMPBELL

Note: For ponds which hold water for longer than 6 hours, longer duration storms are required to establish runoff volumes. Since the additional precipitation is assumed to occur over a long period, the additional volume is based on the runoff from the impervious areas only.

V ₃₆₀	504
Area Treatment D (SF)	1049
Zone	2

For 10 Day Storms:

$$V_{10day} = V_{360} + A_D * (P_{10day} - P_{360})*43560 SF/AC$$

V ₃₆₀	=	504
A _D (SF)	=	1049
Zone	=	2
P _{10day}	1=1	3.95
P ₃₆₀	=	2.35

V ₃₆₀	; = :	504
+ imp. area	=	140

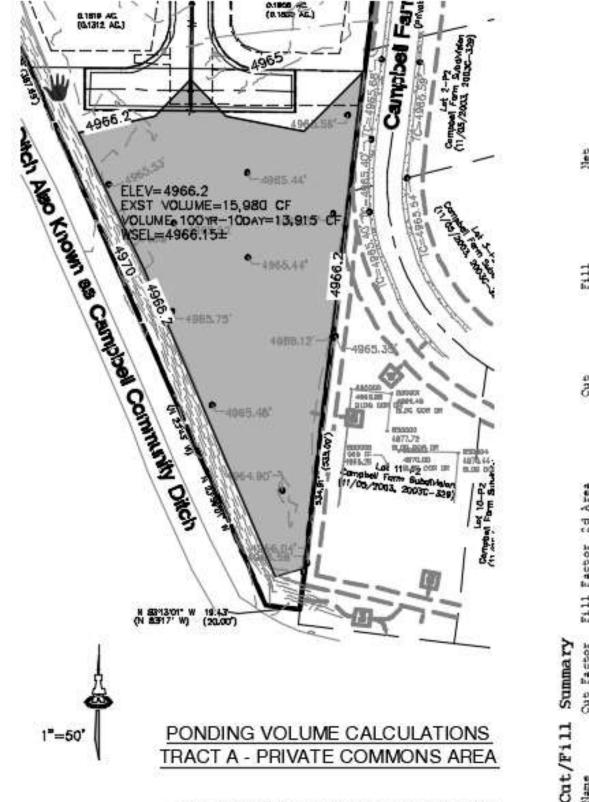
Total Pond Volume (V _{10 day})	= 1	644
--	-----	-----

35% Tract B pond (225 cf); 65% Tract C pond (419 cf)

P	360
Zone	D
1	2.20
2	2.35
3	2.60
4	2.90

P ₁₀	Oday
Zone	D
1	3.67
2	3.95
3	4.90
4	5.95

from Table A-2 Depth (inches) at 100-yr Storm



POND VOLUME WAS CALCULATED IN AUTODESK AUTOCAD CIVIL 3D WITH A COMPOSITE SURFACE COMPRISED OF THE EXISTING GROUND SURFACE AND THE TOP OF PONDING ELEVATION OF 4966.2. TOTAL VOLUME IS 592 CY - 15984 CF

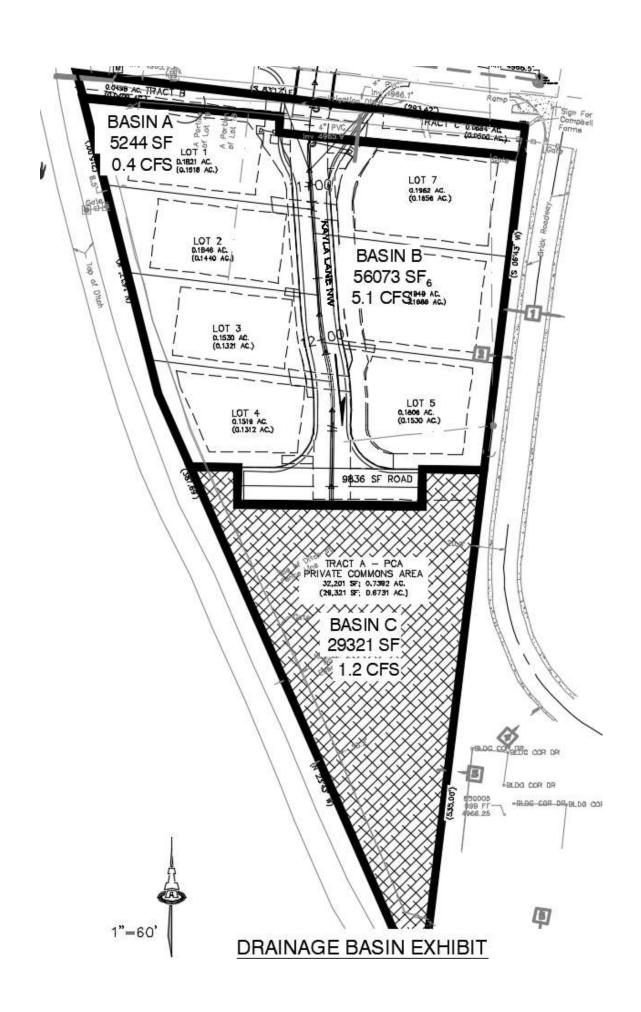
lame	Out Factor	Fill Factor	2d Area	Sat		7111	Met
TATION DION	1.00	1.00	24069.38 Sq.	Fe. 2.9	2.99 Cu. Yd.	\$94.69 Cu. Yd.	591.71 Cu. Yd.<5111>
otals			24069.38 59.	8.2 2.8	2.99 Cu. Yd.	594.69 Cu. Yd.	591.71 Cu. Yd. <fill></fill>

TRACT C DONE		
TRACT C POND		
POND VOLUME Pond	Volume Required 419 CF	
CONTOUR AREA VOL (CF) Pond V	Volume Proposed 452 CF	: OK
65.9 611		
64.9 293 452		

		PF	ROPOSED POND CALCULATIONS		
TRACT B P	DND				
	POND VOL	UME	Pond V olume Required	225	CF CI
CONTOUR	AREA	VOL (CF)	Pond Volume Proposed	244	CF OK
66.5	354	Г			
65.5	134	244			

APPENDIX C

Drainage Basin Exhibit



APPENDIX D

Street Flow Capacity Calculations

Channel Report

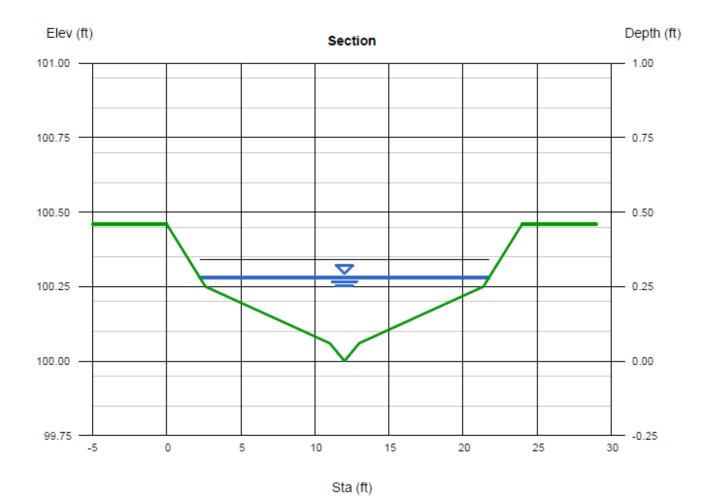
Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc.

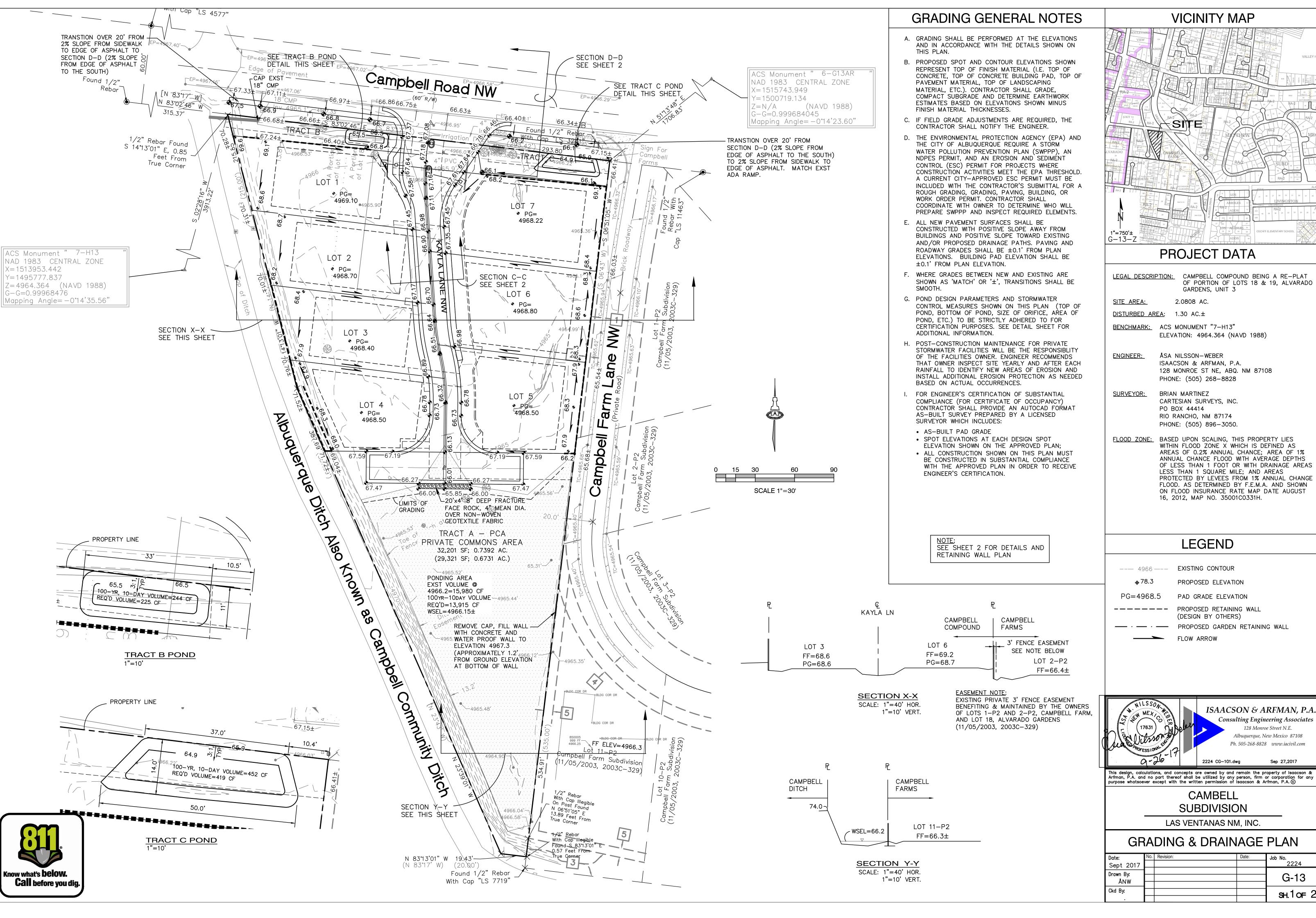
Tuesday, Sep 26 2017

KAYLA LANE

User-defined		Highlighted	
Invert Elev (ft)	= 100.00	Depth (ft)	= 0.28
Slope (%)	= 0.50	Q (cfs)	= 5.100
N-Value	= 0.013	Area (sqft)	= 2.61
		Velocity (ft/s)	= 1.96
Calculations		Wetted Perim (ft)	= 19.52
Compute by:	Known Q	Crit Depth, Yc (ft)	= 0.28
Known Q (cfs)	= 5.10	Top Width (ft)	= 19.51
, ,		EGL (ft)	= 0.34

(Sta, EI, n)-(Sta, EI, n)... (0.00, 100.46)-(2.62, 100.25, 0.017)-(11.00, 100.06, 0.013)-(12.00, 100.00, 0.013)-(13.00, 100.06, 0.017)-(21.38, 100.25, 0.013)-(24.00, 100.46, 0.017)







LEGAL DESCRIPTION: CAMPBELL COMPOUND BEING A RE-PLAT OF PORTION OF LOTS 18 & 19, ALVARADO

ELEVATION: 4964.364 (NAVD 1988)

128 MONROE ST NE, ABQ. NM 87108

WITHIN FLOOD ZONE X WHICH IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE; AREA OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS

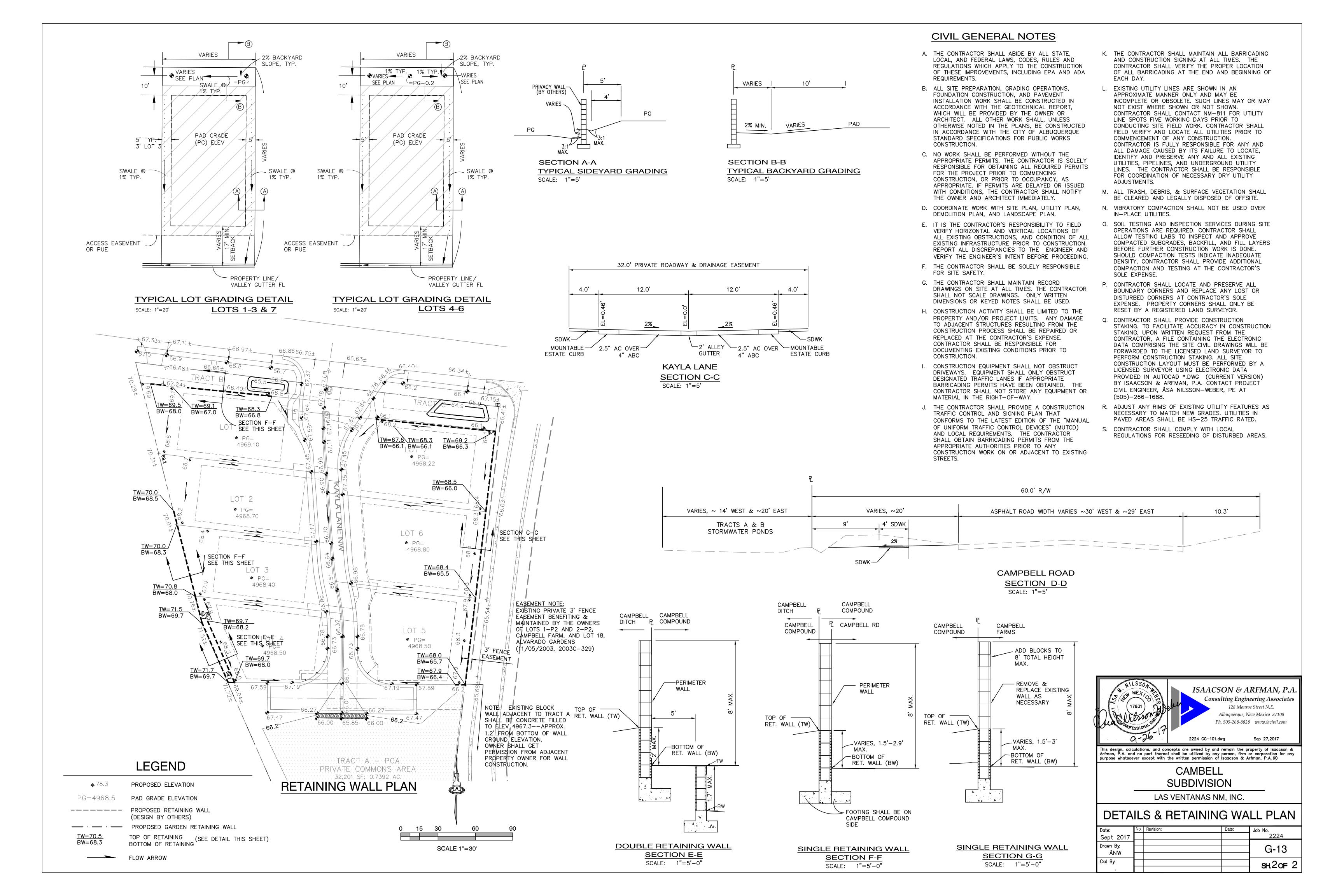
OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANGE FLOOD. AS DETERMINED BY F.E.M.A. AND SHOWN ON FLOOD INSURANCE RATE MAP DATE AUGUST

16, 2012, MAP NO. 35001C0331H.

ISAACSON & ARFMAN, P.A Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

LAS VENTANAS NM, INC.

Date: Sept 2017	No.	Revision:	Date:	Job No. 2224
Drawn By:				
ÅNW				G-13
Ckd By:				sн.1 o ∈ 2
•				





Thomas O. Isaacson, PE(RET.) & LS(RET.) . Fred C. Arfman, PE . Asa Nilsson-Weber, PE

September 26, 2017

Mr. Dana Peterson, P.E. Senior Engineer, Planning Dept. City of Albuquerque 600 2nd Street NW Albuquerque, NM 87103

RE: G13D032 - Campbell Compound

Grading Plan & Drainage Report

Zone Atlas Map: G-13

Dear Mr. Peterson:

Please see attached for a revised grading plan and drainage report addressing your comments dated August 4, 2017 (attached). Please see below for responses to your comments.

- 1. The water surface elevation is approximately 1.1 feet higher than the adjacent lot on Campbell Farms. In lieu of excavating the open space tract, the block wall shall be concrete filled and water proofed to 4967.3—one foot above the finish floor elevation of the adjacent lot, which is 4966.3 per the survey. A section view through the pond and the adjacent Campbell Farms property has been provided.
- 2. A section through Campbell Rd. has been added showing that half of Campbell Rd. will graded to flow to the ditch/tree area. Basin A was reduced and will pond in Tracts B and C. 100-yr, 10-day volumes required are provided in the ponds. Valley gutter across Kayla Ln. was eliminated.
- 3. There appear to be no offsite flows from the walkway at the ditch berm. The basin extends to the top of the berm, then the walkway slopes west.
- 4. Since no additional grading will occur in Tract A, land treatment A was not adjusted.
- 5. The narrative has been changed to reflect that sidewalks will be constructed along Kayla Ln. and Campbell Rd. No curb will be constructed along Campbell Rd.—Racquel Michel, COA Transportation concurs. The flows off the pavement is minor sheet flow, so curb would not be necessary.
- 6. No drainage will be directed to the adjacent subdivision. All lots drain to Kayla Ln. A section view between Campbell Compound and Campbell Farms lots has been added. Wall footings are shown to be contained within the property, except adjacent to Campbell Farms where the existing wall shall be utilized. There is a fence easement adjacent to lots 5-7, but not to the south adjacent to Tract A. The Owner will need to

Mr. Dana Peterson September 26 Page 2

ask permission from the adjacent owner/home owners' association for concrete filling the existing wall. Wall dimensions have been added to the wall section details. The backyards slope at 2% typical from the wall to the backyard swale that is located 10' from the building pad. This is a standard grading scheme that most homebuilders request so that the backyards are not too steep. The flow arrows on the typical lot grading detail and Section A-A indicates that each lot shall drain via separate sideyard swales. Flow arrows have also been added to the grading plan.

- 7. There are no easements for the ditch on the property, and there are no conflicts with the pad or wall locations. The existing fence along Tract A adjacent to the ditch will remain.
- 8. An ESC plan will be provided.
- 9. A private drainage covenant will be provided for Tract A and a public drainage covenant will be provided for Tracts B & C. These forms will be submitted with the DRC submittal, and once the plat is filed, the recording information will be added and the covenants recorded.

If you have questions regarding this submittal, please call me at 266-1688 or email at asaw@iacivil.com

Thank you.

Sincerely,

Saacson & ARFMAN, P.A.

Åsa Nilsson-Weber, P.E.

Attachments



August 4, 2017

Åsa Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: Campbell Compound

Drainage Report and Grading Plan Engineer's Stamp Date 7/21/17 Hydrology File: G13D032

Dear Ms. Nilsson-Weber:

Based on the information provided in the submittal received on 7/25/17 the above-referenced submittal cannot be approved for Preliminary Plat or Grading Permit until the following are addressed:

PO Box 1293

Prior to Preliminary Plat:

Albuquerque

 It appears that the Maximum Water Surface Elevation (MWSE) in the commons area pond will be higher than the adjacent Campbell Farm subdivision:

New Mexico 87103

1.1. Extend topography into the Campbell Farm subdivision and include Campbell Farm Lane, Lot 11 topo and finished floor.

1.2. Provide a section view through the pond (including the MWSE), property line and onto lot 11 of Campbell Farm subdivision.

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- 1.3. The pond will need to be excavated to contain the MWSE below the adjacent subdivision with freeboard (1ft below the Campbell Farm Lot 11 finished floor).
- 2. Existing and proposed drainage along Campbell Rd.
 - 2.1. The existing drainage appears to sheet flow off the south half of Campbell into a roadside swale that ponds until eventually infiltrating. The existing farmstead is lower now and does not drain at all into the Campbell Rd ROW.
 - 2.2. Provide a ponding area along the cottonwood row capable of maintaining the 10day, 100yr MWSE below the sidewalk and at least 1ft below the finished floors on lot 1 and lot 7.

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- 2.3. The proposed drainage from Basin A can be held in the cottonwood row ponding area or be diverted south to the commons area pond. The south half-street of Campbell Rd should be able to sheet flow into the cottonwood row. Attempting to convey flows east on Campbell Rd in curb and gutter would lead to more ponding on the road between the entrance of Campbell Farm Ln and the Griegos Drain.
- 2.4. Provide a proposed road section for Campbell Rd and tract B/C. This should also incorporate the traffic requirements for frontage improvements.
- 2.5. The valley gutter in across the Kayla Lane entrance likely won't convey flows with this scheme and can be removed.
- 2.6. A 10' transition section will be needed to connect to the Campbell Farm frontage that lays down the standard curb and gutter and lowers the sidewalk to suit this project's frontage.
- 3. Offsite Flows. Runoff and volume calculations need to anticipate flows entering this site from the Conservancy berm and its access road along the east side of the Campbell Community Ditch. It is difficult to tell from the basin map if this area was included.

PO Box 1293

4. Selection of land treatment A for most of the commons area is acceptable, however if any grading or landscaping is required in this area, the land treatment will need to be adjusted to treatment B.

Albuquerque

5. Update the Chapter IV narrative to reflect the sidewalk requirements. Estate curb will also be needed along the Campbell Rd frontage.

New Mexico 87103 6. Grading Plan remarks.

www.cabq.gov

- 6.1. Raising the grade in this subdivision will put it several feet above the Campbell Farms subdivision. Ensure no drainage will exit this project site and impact this adjoining subdivision.
- 6.2. Include a section view though the property line between Campbell Farm Rd and the Campbell Compound east lots.
- 6.3. The backyard walls and footers (Section B-B) will need to be wholly contained on this project's property, unless written concurrence can be provided by the adjoining property owners for common walls.
- 6.4. Show the property line, section cut, and dimensional data for the double retaining wall.
- 6.5. Provide additional dimensions on the wall sections: max height retained, max privacy wall heights, and offsets.

Orig: Drainage file

Albuquerque - Making History 1706-2006



- 6.6. Increase the slope and specify a minimum depth at flowline along the backyard walls; clarify the typical lot grading detail to show the backyard drains to the front (Kayla Ln) and no cross lot drainage or drainage though the backyard wall occurs.
- 7. Are any easements required for the ditch and will they conflict with the pad or wall locations?

Prior to Grading Permit:

- 8. This project will require an ESC plan prior to grading permit approval.
- A private facility drainage covenant is required for the commons area pond. Once filled
 out, this document will need to be turned in to Madeline Carruthers (<u>mtafoya@cabq.gov</u>,
 4th floor, Plaza del Sol) for signature routing.

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

Sincerely,

PO Box 1293

Albuquerque

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services

New Mexico 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

DRB#:		Building Permit #:	City Drainage #:
	EPC#:	Work Or	der#:
Legal Description:			
City Address:			
Engineering Firm:		Contact:	
Address:			
Phone#:	Fax#:	E-mail:	
Address:			
	Fax#:	E-mail:	
		Contact:	
Address:		E mail.	
Phone#:	rax#:	E-mail: _	
Other Contact:		Contact:	
Address:			
Phone#:	Fax#:	E-mail:	
TRAFFIC/ TRANSPORTATI MS4/ EROSION & SEDIMEN		CERTIFICATE OF OCC	CUPANCY
TYPE OF SUBMITTAL:			
		X PRELIMINARY PLAT	Δ PPR (V Δ I
ENGINEER ARCHITECT CE	ERTIFICATION	X PRELIMINARY PLAT SITE PLAN FOR SUB'	
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COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____