DELLAVALLE Laboratory, Inc. Chemist and Consultants

Valley View Farms

Irrigation and Process Water Requirement Summary

Date	Time Interval	Field 1A		Field 1B		Field 2		Field 3		Field 4		Field 11A		Field 11B		Field 12		Field 13		Field 14		Field
		Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand
		(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)
Jan	1/1 - 1/15																					
	1/16 - 1/31																					
Feb	2/1 - 2/14																					
	2/15 - 2/28																					
Mar	3/1 - 3/15	0.3	11.6	7.2	13.2	12.3	5.1	8.6	1.6	27.3	12.1	10.9	6.0	6.6	3.7	19.9	18.8					
	3/16 - 3/31																	16.5	19.0	12.4	23.7	13.6
Apr	4/1 - 4/15	5.5	20.5	6.4	23.4	11.4	14.7	7.7	7.3	24.2	33.2	9.6	15.0	5.5	9.1	17.7	27.1					
	4/16 - 4/30																	11.1	10.9	8.4	19.1	12.7
May	5/1 - 5/7																					
	5/8 - 5/31	3.8	12.5	4.1	14.6	3.2	13.2	2.2	7.2	8.5	27.4	3.6	11.8	2.2	7.1	5.8	20.2					
Jun	6/1 - 6/15																	16.1	11.1	15.0	8.7	17.7
	6/16 - 6/30																					
Jul	7/1 - 7/15	6.7	11.0	7.1	13.1	5.6	12.1	3.8	6.3	14.9	24.0	6.3	10.4	3.9	6.3	10.1	20.2					
	7/16 - 7/31	19.1		20.4	0.0	15.9	1.9	10.8		42.7		18.1		11.0		28.9	1.6					
Aug	8/1 - 8/15	0.2	15.8	0.3	18.1	0.2	15.9	0.1	9.0	0.5	34.8	0.2	14.9	0.1	9.0	0.4	27.2	15.1	9.6	19.0	7.1	17.7
	8/16 - 8/31	2.4	13.0	2.5	15.1	2.0	13.4	1.4	7.4	5.3	28.5	2.3	12.3	1.4	7.4	3.6	22.3	25.1	3.8	29.8		27.5
Sep	9/1 - 9/15	15.5		16.5		12.9	0.1	8.8		34.7		14.7		3.9		23.5		0.4	24.0	0.5	24.3	0.5
	9/16 - 9/30																	4.5	14.8	5.3	14.3	4.9
Oct	10/1 - 10/15																	27.3		32.2		30.0
	10/16 - 10/31	8.4	0.9	9.6	1.0	28.4		20.9		60.7		26.7		20.2		43.6						
Nov	11/1 - 11/15																	54.4		30.4		64.3
	11/16 - 11/30																					
Dec	12/1 - 12/15																					
	12/16 - 12/31																					

	Field 1A		Field 1B		Field 2		Field 3		Field 4		Field 11A		Field 11B		Field 12		Field 13		Field 14		Field
Winter Forage	20.4	32.9	23.3	37.6	52.6	19.8	37.2	8.8	112.2	45.3	49.2	21.0	32.6	12.7	81.2	37.3	62.0	38.0	51.2	42.8	45.8
Corn	47.8	52.4	50.9	60.9	39.8	56.5	27.0	30.0	106.7	114.8	45.2	49.3	27.4	29.9	72.4	94.0	89.7	60.3	105.7	54.5	98.3
Annual Total	68.2	85.3	74.2	98.5	92.4	76.3	64.2	38.9	218.9	160.1	94.4	70.3	60.0	42.6	153.6	131.3	171.7	98.3	156.8	97.3	194.2

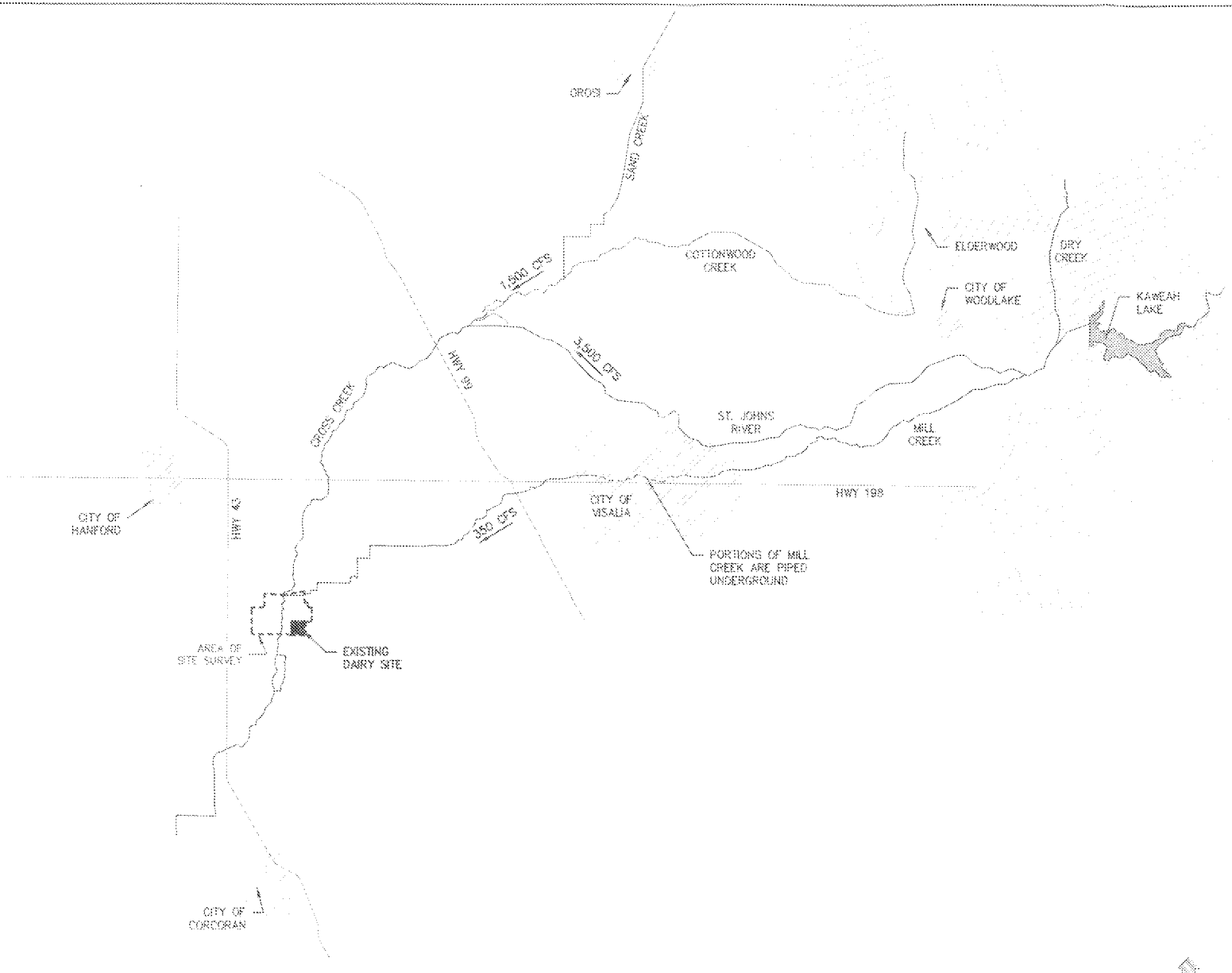
DELLAVALLE Laboratory, Inc.

Valley View Farms

Irrigation and Process Water Requirement Summary

Date	Time Interval	B 15	Field 20		Field 22		Field 23		Field 24		Field 25		Field 26		Farm Total	
		Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement	Process Water Needed to Meet Crop Nitrogen Demand	Fresh Irrigation water Requirement
		(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF/Field)	(AF)	(AF)
Jan	1/1 - 1/15															
	1/16 - 1/31															
Feb	2/1 - 2/14															
	2/15 - 2/28															
Mar	3/1 - 3/15												33.2	16.7	132.8	74.7
	3/16 - 3/31	17.9	8.2	23.1	10.9	27.0	12.0	32.5	8.9	35.1	16.6	20.2			107.2	193.4
Apr	4/1 - 4/15														88.5	150.2
	4/16 - 4/30	16.3	6.5	22.9	7.9	21.5	8.1	21.2	8.0	23.7	13.2	17.1	10.3	24.3	82.7	191.2
May	5/1 - 5/7															
	5/8 - 5/31														33.4	116.0
Jun	6/1 - 6/15	16.5	32.9	5.7	18.1	11.0	16.7	12.9	0.0	30.0	18.0	12.3	15.4	15.6	144.1	117.8
	6/16 - 6/30															
Jul	7/1 - 7/15														58.4	103.6
	7/16 - 7/31														196.9	3.8
Aug	8/1 - 8/15	6.9	22.9	4.1	19.1	9.4	16.7	11.2	0.0	28.3	18.2	10.5	15.4	13.8	146.2	247.4
	8/16 - 8/31	2.3	35.6		28.1	2.8	25.9	6.4	0.0	31.8	28.3	4.0	23.9	8.9	245.0	178.9
Sep	9/1 - 9/15	0.8	0.6	25.0	0.5	25.6	0.5	26.0	0.0	28.9	0.5	26.8	0.4	27.3	139.6	239.6
	9/16 - 9/30	15.0	6.4	10.9	5.0	15.6	4.6	19.3	0.0	21.2	5.1	16.5	4.3	17.6	40.0	145.1
Oct	10/1 - 10/15		38.8		30.6		28.2		0.0	29.2	30.9		28.0	1.9	244.1	27.2
	10/16 - 10/31														220.6	1.8
Nov	11/1 - 11/15		27.3	1.5	27.9	1.5	32.3		25.6	3.6	55.6		0.0	0.0	328.6	6.5
	11/16 - 11/30												38.9		38.9	
Dec	12/1 - 12/15															
	12/16 - 12/31															

	B 15	Field 20		Field 22		Field 23		Field 24		Field 25		Field 26		Farm Total	
Winter Forage	33.1	41.0	53.5	46.0	50.0	52.4	47.7	41.6	57.5	68.2	37.2	80.4	49.9	2,215.0	1,788.0
Corn	61.5	127.3	48.7	100.3	64.3	92.6	71.7	0.0	164.4	101.2	70.0	85.4	84.0		
Annual Total	94.6	168.3	102.2	146.3	114.3	145.0	119.4	41.6	221.9	169.4	107.2	165.9	133.9		



FLOOD ROUTING MAP

Know what's below. Call before you dig.

PRELIMINARY
NOT FOR CONSTRUCTION
5/10/2010

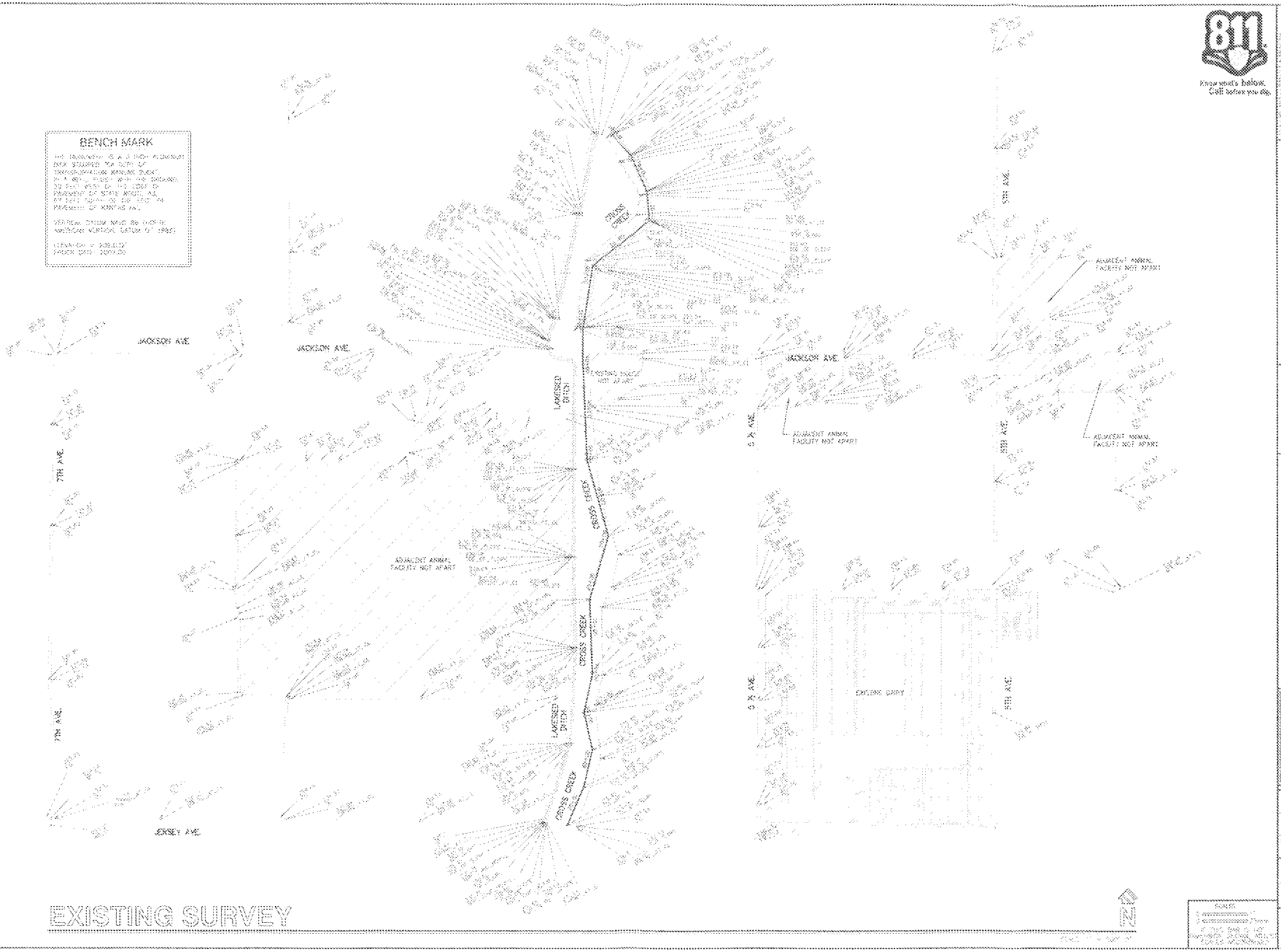
REVISION | BY | DATE

VALLEY VIEW FARMS
KINGS COUNTY, CALIFORNIA
FLOOD STUDY

FLOOD ROUTING MAP

PROVOST & PRITCHARD

FR-1



EXISTING SURVEY

Know what's below. Call before you dig.

PRELIMINARY
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5/10/2010

VALLEY VIEW FARMS
KINGS COUNTY, CALIFORNIA
FLOOD STUDY
EXISTING SURVEY POINTS

PROVOST & PRITCHARD

FR-2

EXISTING CONTOURS

N

Know what's below. Call before you dig

PRELIMINARY
NOT FOR CONSTRUCTION
9/10/2010

NO.	REVISION	BY	DATE

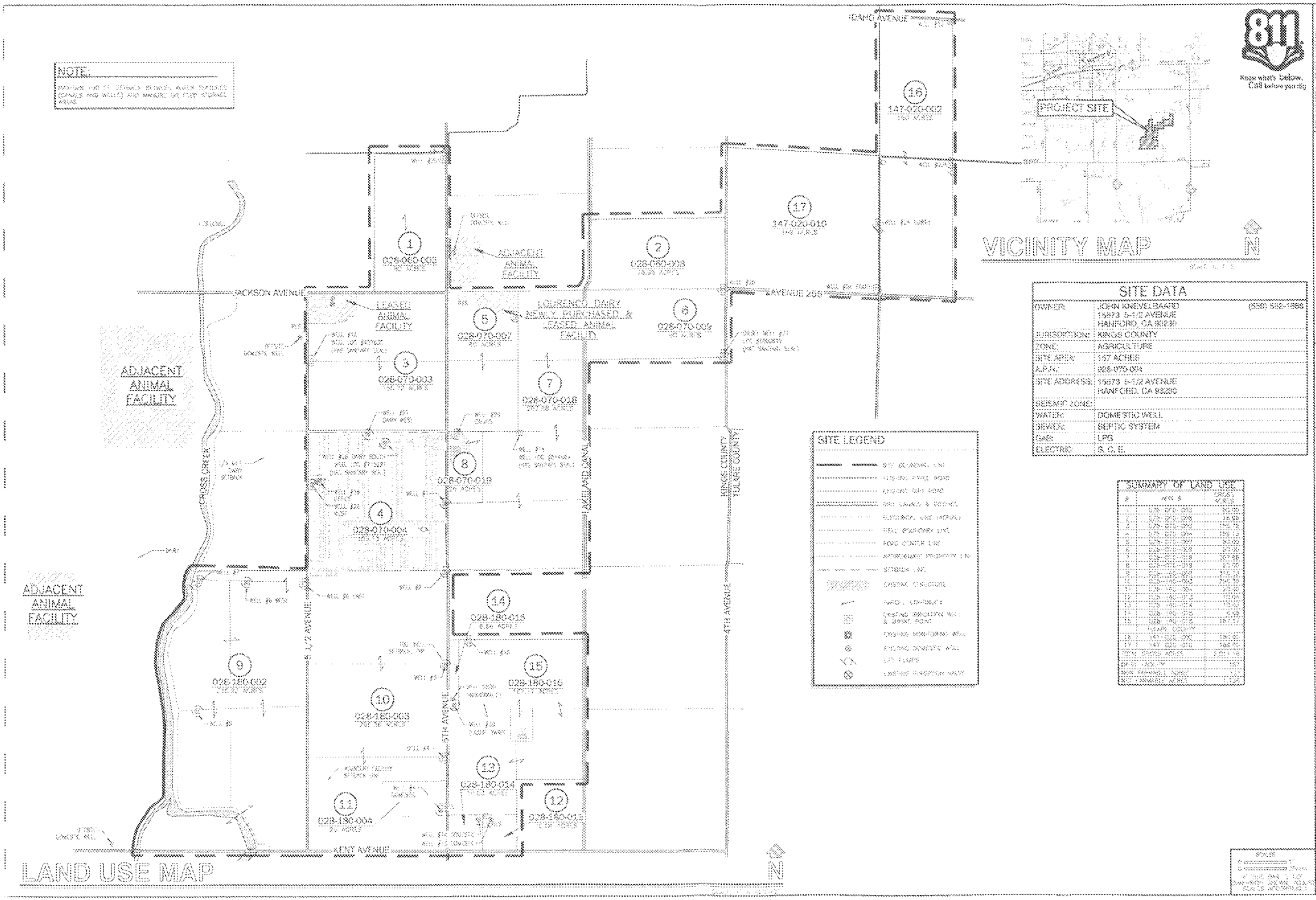
VALLEY VIEW FARMS
KINGS COUNTY, CALIFORNIA
FLOOD STUDY

EXISTING CONTOURS

PROVOST & PRITCHARD

FR-3

NOTE:



LAND USE MAP

VICINITY MAP

Know what's below. Call before you dig.

SITE DATA

OWNER:	JOHN KNEVELBAARD (559) 582-1866 15673 5-1/2 AVENUE HANFORD, CA 93230
JURISDICTION:	KINGS COUNTY
ZONE:	AGRICULTURE
SITE AREA:	157 ACRES
A.P.N.:	028-070-008
SITE ADDRESS:	15673 5-1/2 AVENUE HANFORD, CA 93230
SEISMIC ZONE:	
WATER:	DOMESTIC WELL
SEWER:	SEPTIC SYSTEM
GAS:	LPG
ELECTRIC:	S. C. E.

SITE LEGEND

- SITE BOUNDARY LINE
- EXISTING PAVED ROAD
- EXISTING DIRT ROAD
- DIRT LANES & DRIVES
- ELECTRICAL USE (AERIAL)
- FIELD BOUNDARY LINE
- FOOD CENTER LINE
- APPROXIMATE PROPERTY LINE
- SETBACK LINE
- EXISTING STRUCTURE
- PARCEL CONTOURS
- EXISTING IRRIGATION WELL & BRANCH POINT
- EXISTING MONITORING WELL
- EXISTING DOMESTIC WELL
- LIFT PUMPS
- LIQUIDS PRESSURE VALVE

SUMMARY OF LAND USE

#	APN #	ACRES
1	028-050-003	19.00
2	028-050-008	19.00
3	028-070-003	19.00
4	028-070-004	19.00
5	028-070-007	19.00
6	028-070-009	19.00
7	028-070-018	19.00
8	028-070-019	19.00
9	028-180-002	19.00
10	028-180-003	19.00
11	028-180-004	19.00
12	028-180-013	19.00
13	028-180-014	19.00
14	028-180-015	19.00
15	028-180-016	19.00
16	147-020-002	19.00
17	147-020-010	19.00
TOTAL		304.00
TOTAL ACRES		304.00
TOTAL PARCELS		16
TOTAL PARCELS		16

PRELIMINARY
NOT FOR CONSTRUCTION
03/09/2009

VALLEY VIEW FARMS

KINGS COUNTY, CALIFORNIA
A DAIRY FACILITY EXPANSION

LAND USE MAP

PROVOST & PRITCHARD

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