



# DEPARTMENT OF PLANNING AND BUILDING

Promoting the wise use of land - Helping to build great communities

## THIS IS A NEW PROJECT REFERRAL

DATE: 3/9/2016

TO: \_\_\_\_\_

FROM: Airlin Singewald (805-781-5198 or asingewald@co.slo.ca.us)  
North County Team / Development Review

**PROJECT DESCRIPTION:** PMT2014-01338 BRODIAEA INC/ SAN JUAN SOUTH VINEYARD – Proposed major engineered grading for ag reservoir. Site location is Shell Creek Rd and Cammatti-Shandon Rd, Shandon. APN: 037-291-039

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Return this letter with your comments attached no later than 14 days from receipt of this referral. CACs please respond within 60 days. Thank you.

PART 1 - IS THE ATTACHED INFORMATION ADEQUATE TO COMPLETE YOUR REVIEW?

- YES (Please go on to PART II.)
- NO (Call me ASAP to discuss what else you need. We have only 10 days in which we must obtain comments from outside agencies.)

PART II - ARE THERE SIGNIFICANT CONCERNS, PROBLEMS OR IMPACTS IN YOUR AREA OF REVIEW?

- YES (Please describe impacts, along with recommended mitigation measures to reduce the impacts to less-than-significant levels, and attach to this letter.)
- NO (Please go on to PART III.)

PART III - INDICATE YOUR RECOMMENDATION FOR FINAL ACTION.

Please attach any conditions of approval you recommend to be incorporated into the project's approval, or state reasons for recommending denial.

IF YOU HAVE "NO COMMENT," PLEASE SO INDICATE, OR CALL.

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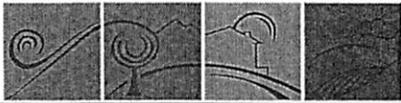


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Date	Name	Phone



CONSTRUCTION  
San Juan Reserv

BRODIAEA INC

Project:

Grading

MAJOR GRADING FOR RESERVOIR

APN: 037-291-039

00000 SHELL CREEK RD NCSHCA

PLANNING & BUILDING DEPARTMENT • ( )  
976 OSOS STREET • ROOM 200 • SAN LUIS OBISPO

PROPERTY INFORMATION

Assessor Parcel Number(s): 037-291-039 Project Address: 1665 Cammatti Shandon Rd. Shandon, CA 93461

APPLICANT / PROFESSIONAL INFORMATION (Check  contact person. Agents must fill out Authorization of Agent.)

Landowner Name Grapevine Land Management Daytime Phone: \_\_\_\_\_

Mailing Address PO BOX 12958 City: SLO Zip: 93401

Email Address \_\_\_\_\_

Licensed Professional In Charge of Project Tom A. Howell Phone: 805-925-5311

Mailing Address 1812 N. Vine City: Santa Maria, CA 93454 License: C 27037

Email Address \_\_\_\_\_

Licensed Contractor \_\_\_\_\_ Phone: \_\_\_\_\_

Mailing Address \_\_\_\_\_ City: \_\_\_\_\_ License: \_\_\_\_\_

Email Address \_\_\_\_\_

Agent for  Contractor  Owner Kirk Consulting Phone: 805-461-5765

Mailing Address 8830 Morro Rd. City: Atascadero, CA Zip: 93422

Email Address sarah@kirk-consulting.net

PROJECT INFORMATION (please fill out this section completely)

Scope of Work: Construction of a 49ac.ft. reservoir for irrigation purposes

Valuation: \$ \_\_\_\_\_

- Structure Info - Conditioned Area \_\_\_\_\_ sq. ft. • Unconditioned Area \_\_\_\_\_ sq. ft. • Deck/Porch/Patio \_\_\_\_\_ sq. ft.
- Retaining Wall Length \_\_\_\_\_ lin. ft. • Bedrooms \_\_\_\_\_ • Bathrooms \_\_\_\_\_ • Stories \_\_\_\_\_ • Roof Height \_\_\_\_\_ ft.
- Utilities -  Well  Septic  Public - agency or company for water/sewer \_\_\_\_\_
- Grading - Cut <sup>39,405.24</sup> c.y. Fill: <sup>39,416.22</sup> c.y. Total <sup>78821.46</sup> c.y. Slope: 2.67% Area of disturbance <sup>4.8</sup> ac.
- Impervious surface area \_\_\_\_\_ sq. ft. (May require separate Stormwater Control Plan Application)
- Solar -  Grid tied  Off Grid Total KW \_\_\_\_\_  New Electric Meter \_\_\_\_\_ Amps

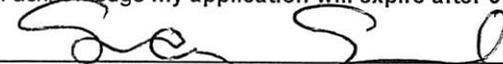
WASTE MANAGEMENT - RECYCLING PLAN

Are you planning to

- A) use an Integrated Waste Management Authority (IWMA)-certified construction and demolition waste recycling facility? or
- B) use other recycling and disposal facilities? (complete Detailed Recycling Form)

BY MY SIGNATURE BELOW, I CERTIFY TO EACH OF THE FOLLOWING:

- I am the property owner, contractor, or am authorized to act on the property owner's behalf, and the information I have provided above is correct. I acknowledge that I have read and understand the information contained herein.
- I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
- I authorize representatives of this city or county to enter the above-identified property for inspection purposes.
- My construction permit application is public record and is therefore published in the weekly reports on the San Luis Obispo County Planning and Building Department's website, as well as in the public information area. All references to names, addresses, telephone numbers, and project information will be part of this public record. All applications must be filed under the property owner's name and address; however, I may use an alternate contact address and telephone number.
- I acknowledge my application will expire after 6 months (2 months for Code Enforcement), if not issued by that time.

  
Signature of Owner / Authorized Agent

9-24-14  
Date

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Contractor Signature \_\_\_\_\_ Date \_\_\_\_\_

# New San Juan South Reservoir 4

## Grading Notes:

- All grading construction shall conform to the applicable codes and to the Soil Report # 15726 prepared by Mid Coast Geotechnical on July 10, 2014 for this project.
- Dust control is to be maintained at all times during construction.
- Areas of fill shall be overexcavated to a depth of three (3) feet to a limit of three feet outside the proposed fill then scarified and moisture conditioned prior to compacting to 90% of maximum density. All areas shall be observed by a Soils or Civil Engineer prior to placing fill.
- Fill materials shall be compacted to 90% of maximum density or as specified in the soil report. Interior fill slopes must be overfilled and then cut to finish grade. Exterior slopes may be track walked upon completion to leave a firm surface capable accepting hydroseed.
- Remove any deleterious material encountered before placing fill.
- No cut or fill slopes shall exceed two horizontal to one vertical (2:1) or as specified in the soil report.
- All disturbed areas shall be hydro-seeded or planted with an approved erosion control material as soon as possible after construction.
- Minimum setbacks to creeks and bluffs shall be maintained. Minimum setbacks of two feet from all property lines shall be maintained.
- Minimum slope away from the toe of slope shall be 2% for the first five feet around the perimeter.
- An approved erosion control plan will be required to be submitted, approved and implemented should grading occur between October 15 and April 15.
- Soils Engineer shall determine if the soil is suitable to support the intended structure. A formal report including progress and/or compaction reports shall be submitted to the County Field Inspector prior to final inspection. When a Soils Report is obtained the County policy regarding pad certification shall be followed. When applicable the Engineer of Record shall observe the grading operations and provide the field inspector with the required compaction reports and a report stating that the grading has been observed and is in conformance with the UBC and County Ordinances.

## Erosion Control Notes:

- Erosion control measures shall be implemented on all projects and shall include source control, including protection of stockpiles, protection of slopes, protection of all disturbed areas, and protection of accesses. In addition, perimeter containment measures shall be placed prior to the commencement of grading and site disturbance activities unless the Public Works Department determines temporary measures to be unnecessary based upon location, site characteristics or time of year. The intent of the erosion control measures shall be to keep all sediment from entering a swale, drainage way, watercourse or onto adjacent properties.
- Site inspections and appropriate maintenance of erosion control devices shall be conducted and documented prior to, during, and after rain events.
- The developer shall be responsible for the placement and maintenance of all erosion control devices as specified by the approved plan until such time that the project is accepted as complete by the Public Works Department. Erosion control devices may be relocated, deleted or additional items may be required depending on the actual soil conditions encountered. Additional erosion control shall be placed at the discretion of the Engineer of Work, County Inspector, SWPPP Monitor or RWQCB Inspector. Guidelines for determining appropriate erosion control devices are included in the appendix of the Public Improvement Standards.
- All erosion control devices shall be the first order of work and shall be in place between October 15 and April 15 or anytime when the rain probability exceeds 30%. This work shall be installed or applied after each area is graded and no longer than five (5) working days after the completion of each area.
- The Engineer of Work and the Public Works Department shall be notified before October 15 for inspection of installed erosion control devices.
- A standby crew for emergency work shall be available at all times during the rainy season (October 15 through April 15). Necessary materials shall be available and stockpiled at convenient locations to facilitate rapid construction or maintenance of temporary devices when rain is imminent.
- Permanent erosion control shall be placed and established with 90% coverage on all disturbed surfaces other than paved or gravel surfaces prior to final inspection. Permanent erosion control shall be fully established prior to final inspection. Temporary erosion control measures shall remain in place until permanent measures are established.
- In the event of a failure, the developer and/or his representative shall be responsible for cleanup and all associated costs or damages. In the event that damage occurs within the right of way and the County is required to perform cleanup, all work shall cease on the project until cleanup costs are fully paid.
- If any work is not in compliance with the plans or permits approved for the project, the Department shall revoke all active permits and recommend that County Code Enforcement provide a written notice or stop work order in accordance with Section 22.52.140 (23.10) of the Land Use Ordinance.
- All projects involving site disturbance of one acre or greater shall comply with the requirements of the National Pollutant Discharge Elimination System (NPDES). The developer shall submit a Notice of Intent (NOI) to comply with the General Permit for Construction Activity with the Regional Water Quality Control Board (RWQCB). The Developer shall provide the County with the Waste Discharge Identification Number (WDID) or with verification that an exemption has been granted by RWQCB.  
WDID# Exempt per RWQCB
- Person to contact 24 hours a day in the event there is an erosion control/sedimentation problem (Storm Water Compliance Officer)  
Name: Fritz Heltzer  
Local Phone: 835-1442

## Project Air Quality Control Notes:

During Construction the contractor shall designate a person or persons to monitor the Dust Control Program and to order increases measures as necessary to prevent the transport of dust off-site. Their duties shall include holiday and weekend periods when work may or may not be in progress. The name and telephone number for such persons shall be provided to the APCD prior to the commencement of construction.

The measures for dust control are as follows but not limited to:

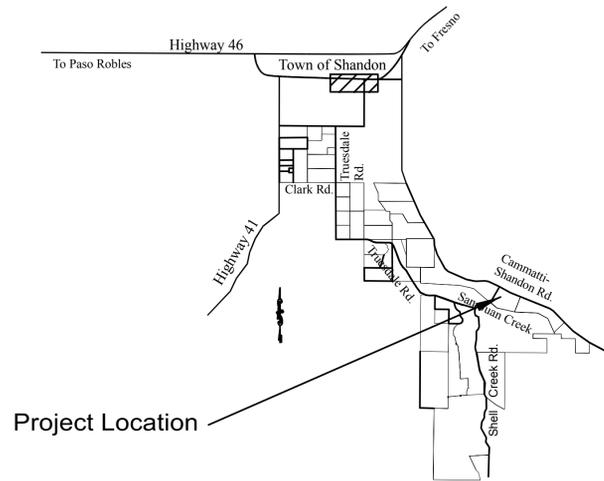
Reduce the amount of disturbed area where possible.

- Use of water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the site. Increased watering frequency would be required whenever wind speeds exceed 15mph. Reclaimed (non-potable) water should be used whenever possible.
- All dirt stockpile areas shall be sprayed daily as needed.
- Exposed ground areas that are planned to be reworked at dates later than one month after initial grading should be seeded with a fast germinating native grass seed and watered until vegetation is established.
- All disturbed soil areas not subject to revegetation should be stabilized using approved chemical soil binders, jute netting, or other methods approved in advance by the ACCD.
- All external slopes shall be hydroseeded as soon as possible upon completion.
- Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at the construction site.
- All trucks hauling dirt, sand, soil, or other loose material are to be covered or should maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.
- Install wheel washers where vehicles enter and exit paved roads and streets, or wash off trucks and equipment leaving the site.
- Prior to final inspection all disturbed areas shall be vegetated with a fast-growing, native seed mix.

## General Notes

- No construction shall be started without plans approved by the County Planning Department. The Planning Department shall be notified at least 24 hours prior to the start of construction and the time and location for the preconstruction conference.
- All construction work and installations shall conform to the County Standards and Specifications.
- Soils tests shall be done in accordance with the County Standards and Specifications Sections 11-351.1403 and Section 11.351-1404. The test results shall clearly indicate the location and source of materials.
- Compaction tests shall be made on all embankment materials, subgrades and ditch backfill.
- There will be no need for special concrete inspection. Concrete for the anchor pad shall be 2000 psi. The rebar shall be inspected prior to the placement of the concrete. All concrete and the two sack slurry for the anti-seep collars and ditch backfill where shown shall be properly vibrated.
- The Design Engineer shall inspect the installation of the HDPE Liner. The liner shall be installed by a contractor specializing in lining ponds.
- The Engineer of Record shall certify that the improvements when completed are in accordance to the plans prior to the request for Final Inspection. As-built plans are to be prepared after construction is completed. The Engineer certifying the improvements shall be present at the Final Inspection.
- Final Reports for grading and earthwork shall be prepared in accordance with the requirements of the UBC, Chapter 33.
- Upon completion of the work, the Geotechnical Engineer shall submit to the Engineer of Record a complete summary of all testing done during the project.
- The Construction Contractor shall maintain a current, complete and accurate record of all changes which deviate from the approved plans. No changes shall be made without the prior approval of the Engineer of Record and the County.

## Vicinity Map



Project Location

Address: 1665 Camatti-Shandon Rd  
 APN 037-291-039  
 Legal Description PM 46/30 PARS 1-4  
 Lot size 517.1 Acres  
 Zoning AG  
 Project Description: Construct a 49 ac-ft Reservoir for irrigation purposes

Table 1705.6  
 Required Verification and Inspection of Soils

Verification and Inspection Task	Continuous During Task Listed	Periodically During Task Listed
1. Verify materials below embankments are adequate to achieve the design capacity	—	—
2. Verify excavations are extended to proper depth and have reached proper material.	—	X
3. Perform classification and testing of controlled filled materials.	—	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X	—
5. Prior to placement of controlled fill, observe subgrade	—	X

Mid-Coast Geotechnical shall perform all special inspections for the earthwork for this project. Call 24 hours prior to inspection to set up an appointment.

## Scope of Work

The work consists of constructing a new lined reservoir 384' by 384' by 25' deep for irrigation purposes. All areas to receive fill shall be excavated a minimum of three feet, the exposed surface scarified and moisture conditioned, then recompact to 90% relative compaction. The intent is to balance the earthwork with no import or export. The completed interior slopes shall be fine graded and all rocks removed. A 40 mil HDPE geomembrane liner will then be installed on the slopes. The liner will be installed per manufacturer's recommendations by a company specializing in liner installation. A five foot by twenty three foot by eight inch reinforced concrete pad for anchoring the liner shall be constructed around the pump inlet pipes. No special inspection for the concrete work shall be required. A 6 foot non-climb fence will be built around the exterior perimeter. The sources of water are existing pvc waterlines from existing wells and reservoirs and no surface water shall enter the reservoir. Valving, filters and pumps will be installed after the reservoir is constructed by the Irrigation Contractor and are not part of this permit. This contract is for stubbing two 14" 0.250 wall thickness pipes through the exterior slope for future connection to the fill and transfer lines by an Irrigation Contractor. These pipes shall have concrete slurry anti-seep collars. A 15" PVC Drop Pipe Outlet Structure will serve as an emergency overflow in the event the high water limit switch fails and is sized to prevent the reservoir from overtopping. Access to the reservoir is by existing dirt farm roads that will be extended when the grapes are removed to build the reservoir. No driveways will be constructed. The existing farm field sheet flows gently across the location and an earthen swale will be constructed around two sides of the perimeter to keep any flow away from the toe of the fill slopes. No electrical work nor utility work included in this permit.

## Benchmark and Basis of Bearing

Benchmark is a wooden hub placed on the southwest corner of Shandon-Camatta Road Elev=1000.18 Assumed Elevation

Basis of Bearing is GPS established true north from NAD 83

## Pre-construction Meeting

Prior to construction a pre-construction meeting is required with the inspector to go over the special inspection reporting requirements, final and progress reports, & erosion control.  
 Call Charley Moloney, 781-5707, North SLO County Inspector, 461-6199

## Reports Required

Upon the completion of Construction the Engineer of Record shall prepare and submit to the County of SLO a Final Report stating that the work is in substantial conformance with the approved plans. Progress Reports are required by the Engineer of Record to the grading inspection as determined during the pre-construction meeting.

## Special Inspections

- No special inspections will be required for this project
- Mid-Coast Geotechnical shall inspect all earthwork and normal concrete and slurry placement. Contact Dane Jensen at 461-0965
- The Engineer of Record shall inspect the installation of the pond liner. Contact Tom Howell at 925-5311

## Project Information

### Contacts:

Owner: Grapevine Land Management

Matt Turrentine  
 444 Higuera St Suite 202  
 San Luis Obispo, CA 93401  
 805 312-1828

Engineer: Tom A Howell

1812 N Vine  
 Santa Maria, CA 93454  
 805 925-5311

Geotechnical Engineer: Mid Coast Geotechnical, Inc

Dane Jensen  
 3124 El Camino Real  
 Atascadero, CA 93423-2220  
 805 461-0965

## Pond Report

Top of dam elevation: 1010.88  
 Bottom of pond elevation: 985.88  
 Top of dam width: 14.0  
 Cut slope ratio: 2.5  
 Fill slope ratio: 2.5  
 Interior slope ratio: 2.5

Pond Earthwork Volumes  
 Fill Factor: 1.30  
 Total cut : 39,405.24 C.Y.  
 Total fill: 39,416.22 C.Y.

## Sheet Index

- Sheet 1: Front sheet, notes and title
- Sheet 2: Overall Layout & Existing Contours
- Sheet 3: Reservoir Grading Plan
- Sheet 4: Details
- Sheet 5: Details, BMP Details
- Sheet 6: Erosion & Sedimentation Plan

### Engineer's Certificate

I, Tom A Howell, RCE 27037, Engineer of Record, hereby certify that these plans are in accordance with the following codes: \_\_\_\_\_ Date: \_\_\_\_\_

- 2013 California Bldg Code (0112 IBC), Appdx Chp 33, 1997 UBC
- 2013 California Electric Code (2011 NEC)
- 2013 California Mechanical Code (2012 IAMPO UMC)
- 2013 California Plumbing Code (2012 IAMPO UPC)
- California Title 24: 2011 California Energy Code and Accessibility Standards
- County Ordinance(s) Title 19 (Building), (inland)

### Geotechnical Engineer's Certificate

I have reviewed the plans and specifications and have found them to be in substantial conformance with the recommendations as found in my Soil Investigation.

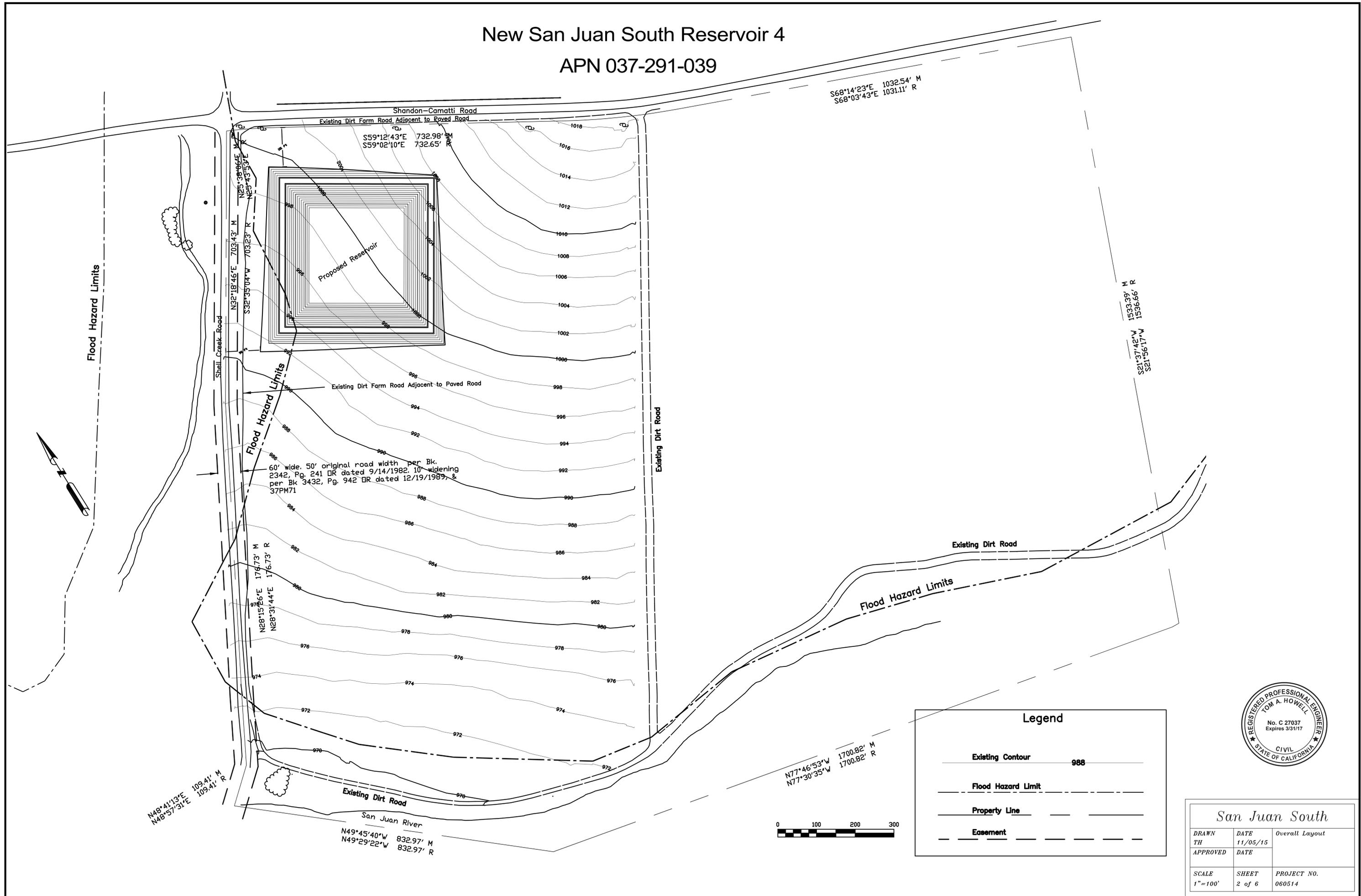
Date: \_\_\_\_\_



San Juan South		
DRAWN TH	DATE	Reservoir 4
APPROVED	DATE	49 Ac-ft
SCALE	SHEET	Shell Creek Rd
	1 of 6	Shandon
		PROJECT NO.
		060514

# New San Juan South Reservoir 4

APN 037-291-039



S68°14'23"E 1032.54' M  
S68°03'43"E 1031.11' R

S59°12'43"E 732.98' M  
S59°02'10"E 732.65' R

N25°38'06"E 125.38' M  
N25°43'53"E 125.38' R

N32°18'46"E 703.43' M  
S32°33'04"W 703.23' R

N28°15'26"E 176.73' M  
N28°31'44"E 176.73' R

N49°45'40"W 832.97' M  
N49°29'22"W 832.97' R

N77°46'53"W 1700.82' M  
N77°30'35"W 1700.82' R

S21°37'42"W 1533.39' M  
S21°56'17"W 1536.66' R

N48°41'13"E 109.41' M  
N48°57'31"E 109.41' R

Flood Hazard Limits

Flood Hazard Limits

Flood Hazard Limits

Existing Dirt Road

Existing Dirt Road

Existing Dirt Road

San Juan River

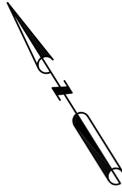
Proposed Reservoir

Shandon-Camatti Road

Existing Dirt Farm Road Adjacent to Paved Road

Existing Dirt Farm Road Adjacent to Paved Road

60' wide, 50' original road width per Bk. 2342, Pg. 241 DR dated 9/14/1982, 10' widening per Bk 3432, Pg. 942 DR dated 12/19/1987, & 37PM71

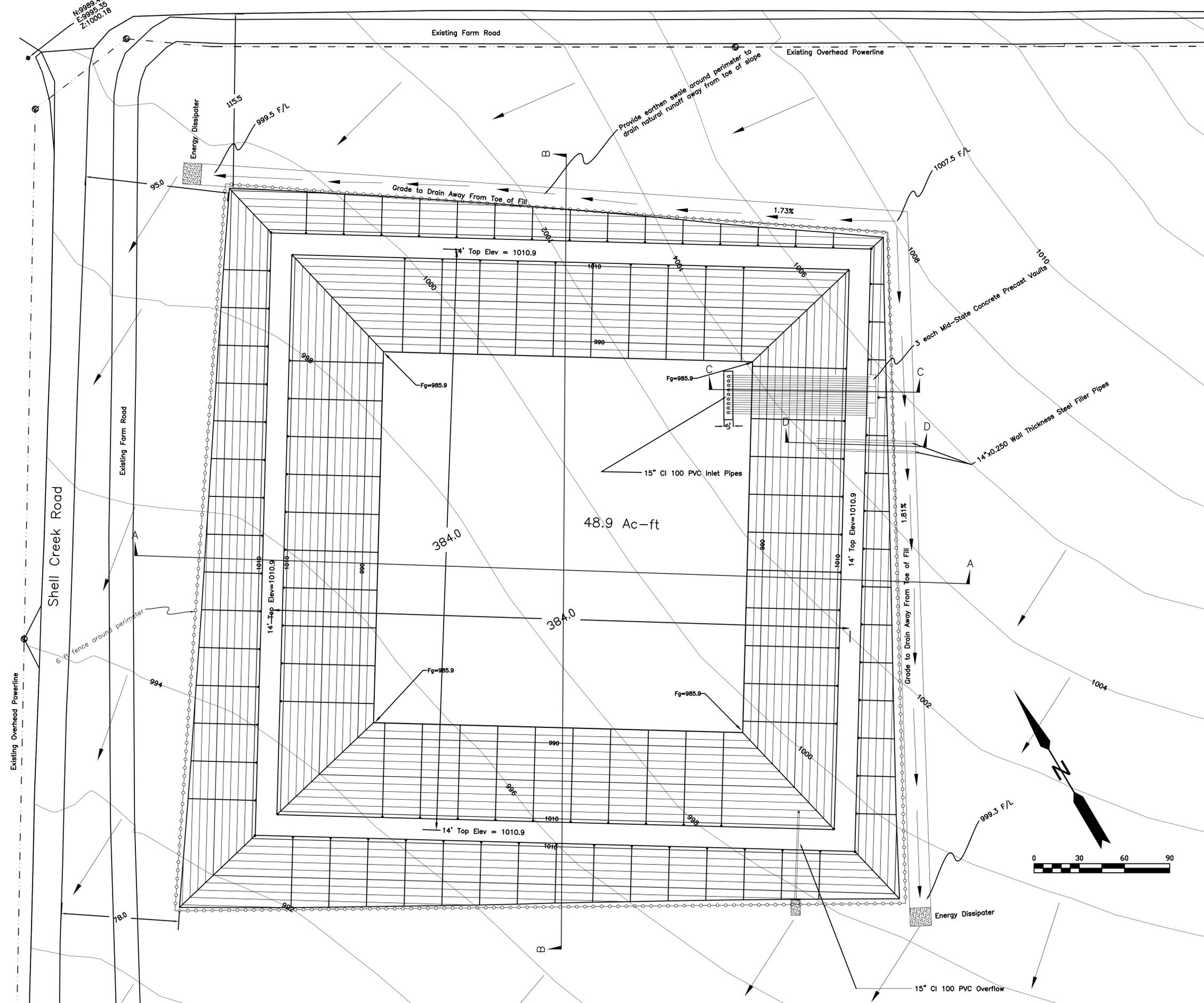


Legend	
Existing Contour	988
Flood Hazard Limit	
Property Line	
Easement	



San Juan South		
DRAWN	DATE	Overall Layout
TH	11/05/15	
APPROVED	DATE	
SCALE	SHEET	PROJECT NO.
1"=100'	2 of 6	060514

Cammati-Shandon Road



### Pond Report

Top of dam elevation: 1010.88  
 Bottom of pond elevation: 985.88  
 Top of dam width: 14.0  
 Cut slope ratio: 2.5  
 Fill slope ratio: 2.5  
 Interior slope ratio: 2.5

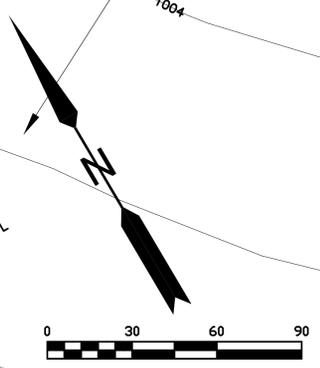
Pond Earthwork Volumes  
 Fill Factor: 1.30  
 Total cut : 39,405.24 C.Y.  
 Total fill: 39,416.22 C.Y.

Pond Storage Volumes

Water Elev	Storage(AcreFt)	Area(Acre)
985.89	0.00	0.000
986.89	1.40	1.435
987.89	2.86	1.493
988.89	4.39	1.552
989.89	5.97	1.612
990.89	7.61	1.673
991.89	9.32	1.735
992.89	11.08	1.799
993.89	12.91	1.863
994.89	14.81	1.929
995.89	16.77	1.996
996.89	18.80	2.063
997.89	20.90	2.132
998.89	23.07	2.202
999.89	25.30	2.274
1000.89	27.61	2.346
1001.89	30.00	2.419
1002.89	32.45	2.494
1003.89	34.98	2.569
1004.89	37.59	2.646
1005.89	40.27	2.723
1006.89	43.04	2.802
1007.89	45.88	2.882
1008.89	48.80	2.963
1009.89	51.81	3.046
1010.89	54.89	3.132

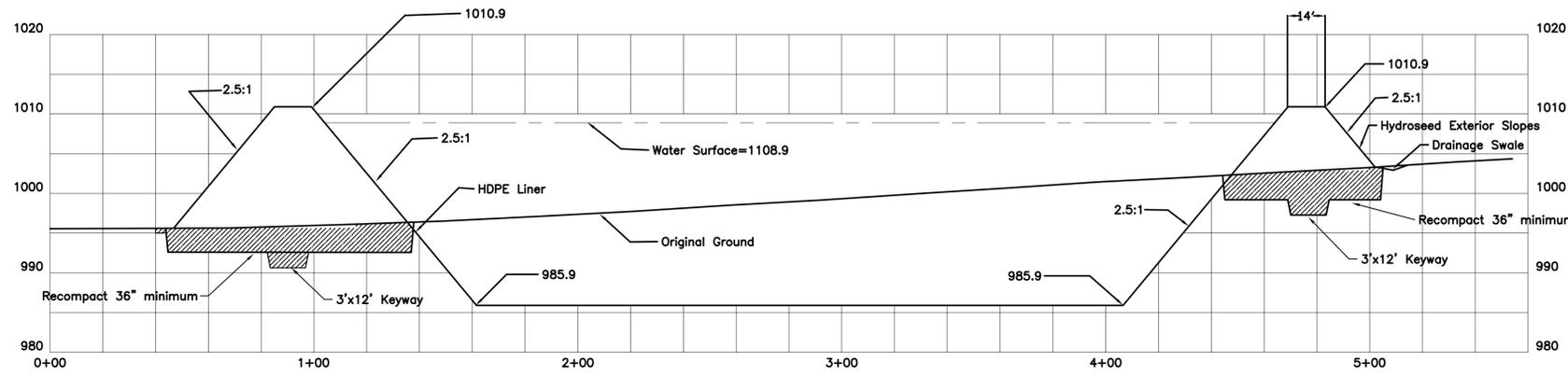
Control Points Assumed Coordinates

PointNo.	Northing(Y)	Easting(X)	Elev(Z)	Description
210	9989.45	9995.35	1000.18	CP, Hub w/whisker
212	9660.66	9797.32	994.11	PP, Hub w/whisker
215	9351.00	9599.15	986.98	CP, Hub w/Whisker

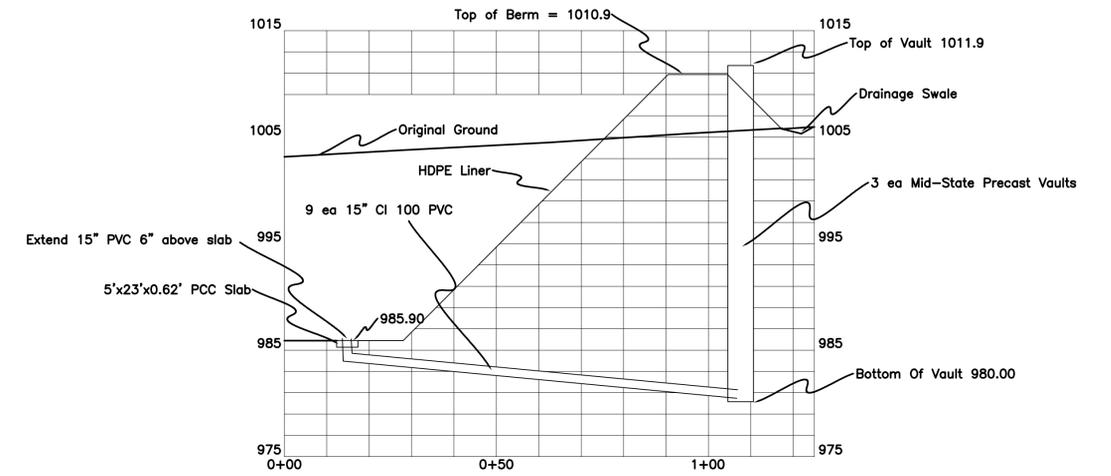


<b>San Juan Ranch</b>		
DRAWN	DATE	South Reservoir 4
TH	11/05/15	49 Ac-ft
APPROVED	DATE	Grading Plan
SCALE	SHEET	PROJECT NO.
1" = 30'	3 of 6	060514

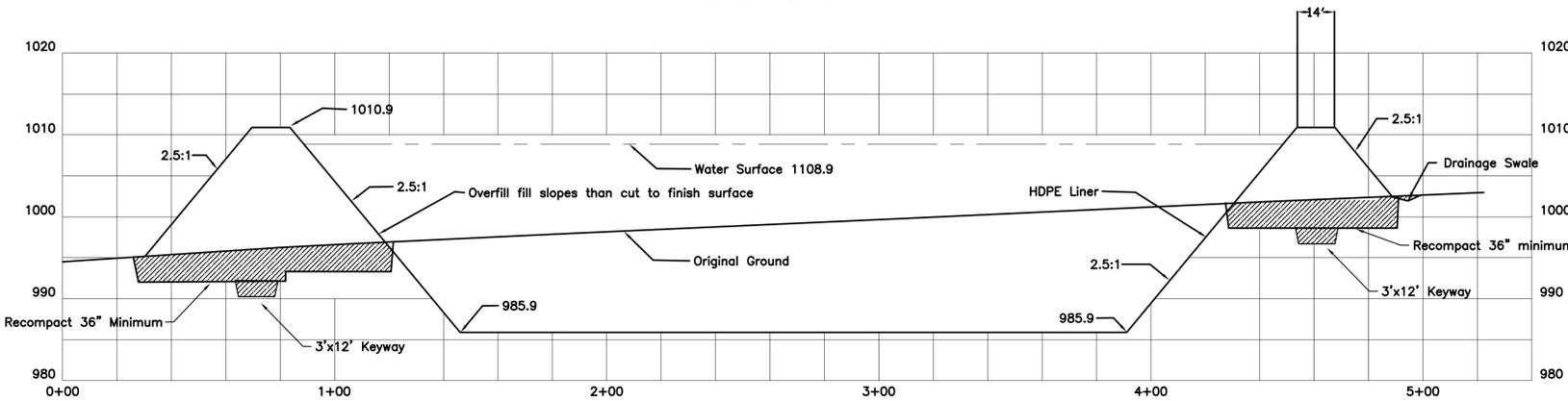
Section A-A



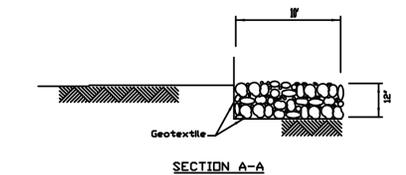
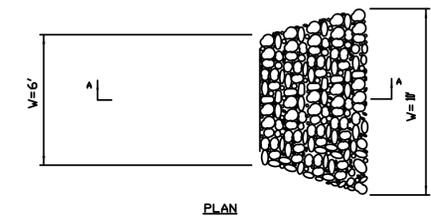
Section C-C



Section B-B

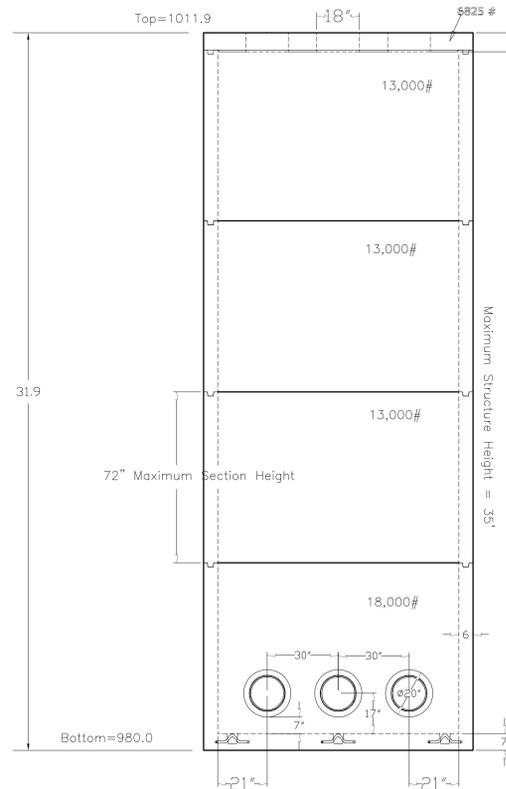
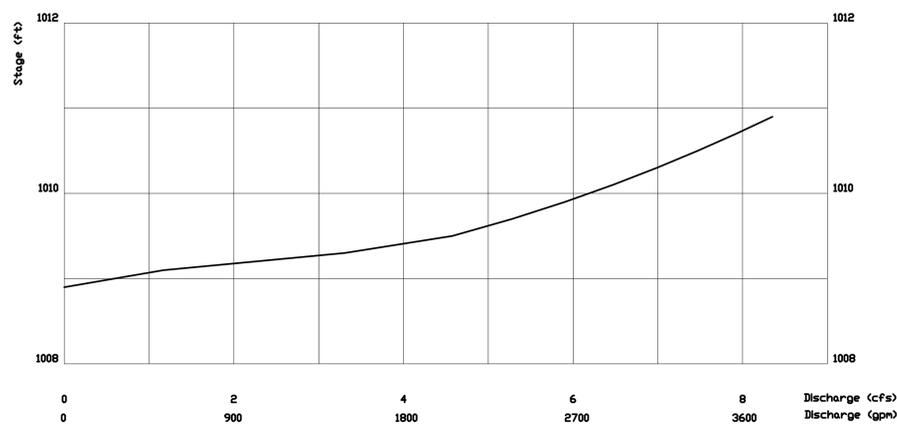


Rock Energy Dissipater

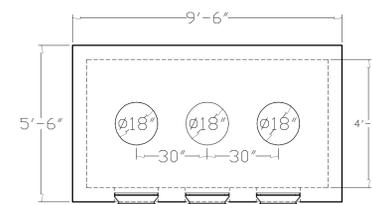


- Notes:
1. Rock shall be 6" to 12" diameter
  2. Minimum dimension shall be 6' x 10' x 10'

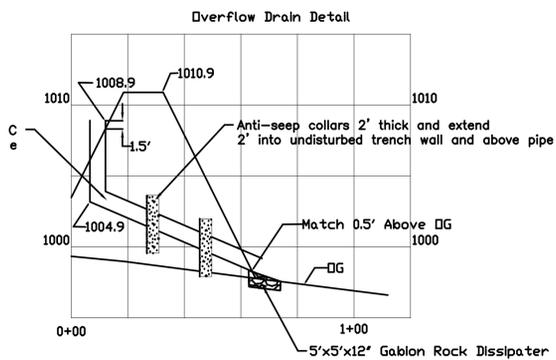
15" Overflow Stage Storage



Mid-State Concrete Products Pump Housing Vault

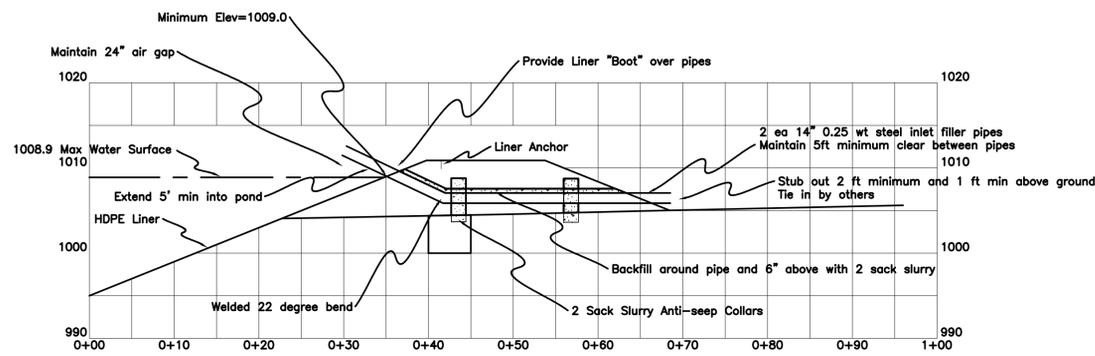


Vault Inlet View

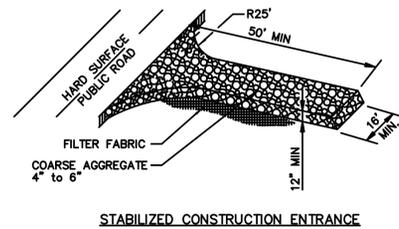
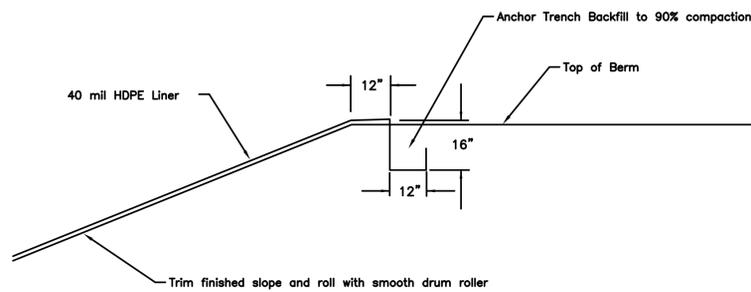


San Juan Ranch		
DRAWN	DATE	South Reservoir 4
	11/05/15	49 ac-ft
APPROVED	DATE	Details
SCALE	SHEET	PROJECT NO.
As Noted	4 of 6	060514

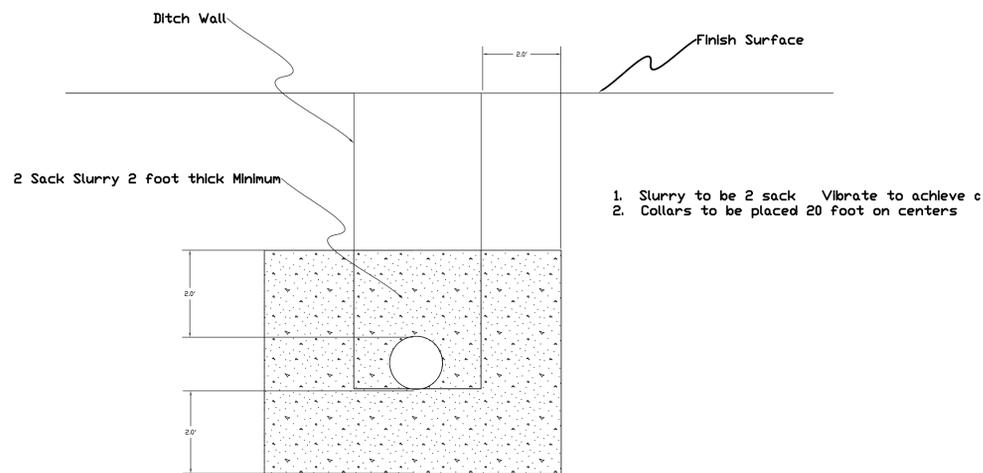
Section D-D



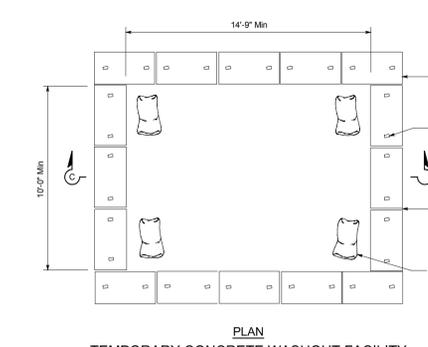
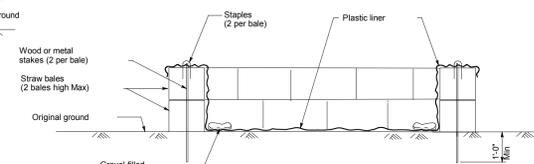
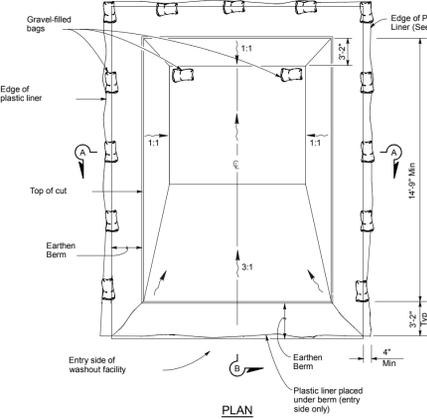
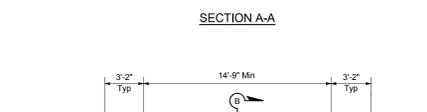
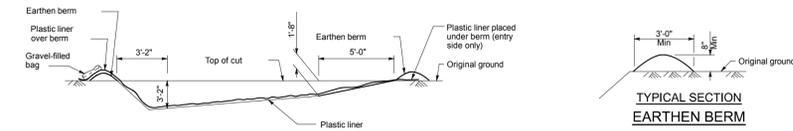
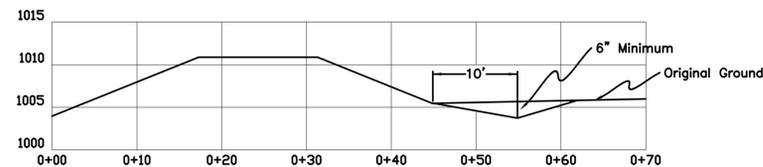
HDPE Liner Anchor Trench



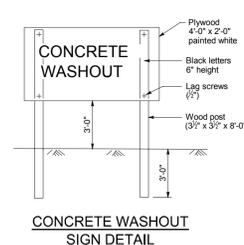
Anti-seep Collar Detail



Drainage Swale Detail



- NOTES:  
 1. The concrete washout sign shall be installed within 3'-10" of the temporary concrete washout facility.  
 2. Plastic liner shall be anchored with gravel-filled bags for below grade concrete washout facility.

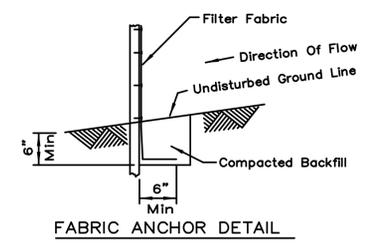
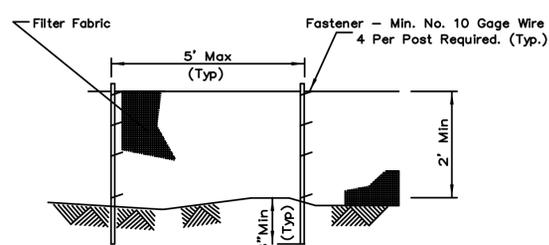


NO SCALE

Notes:

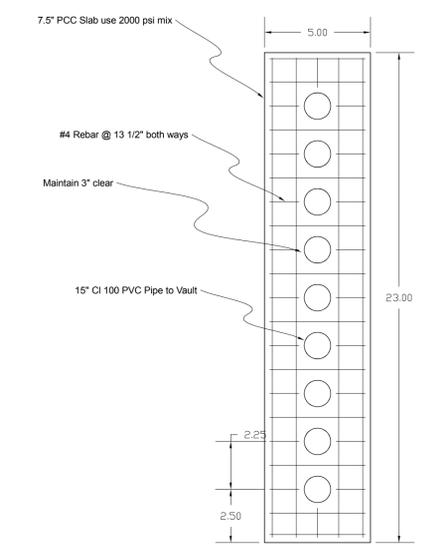
1. Provide a lined pit similar to the Concrete Wash-out Area for Fueling equipment on-site. This pit shall be 16' wide x 40' long minimum with berms and liner as shown on the Concrete Wash-out Plan. Provide 6" minimum earth cover over the liner to protect from damage by vehicular traffic.
2. Clean up any contaminated soil in the fueling area on a daily basis.
3. Do not change oil or coolants on any equipment on-site.

SILT FENCE PLAN



- NOTES:  
 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.

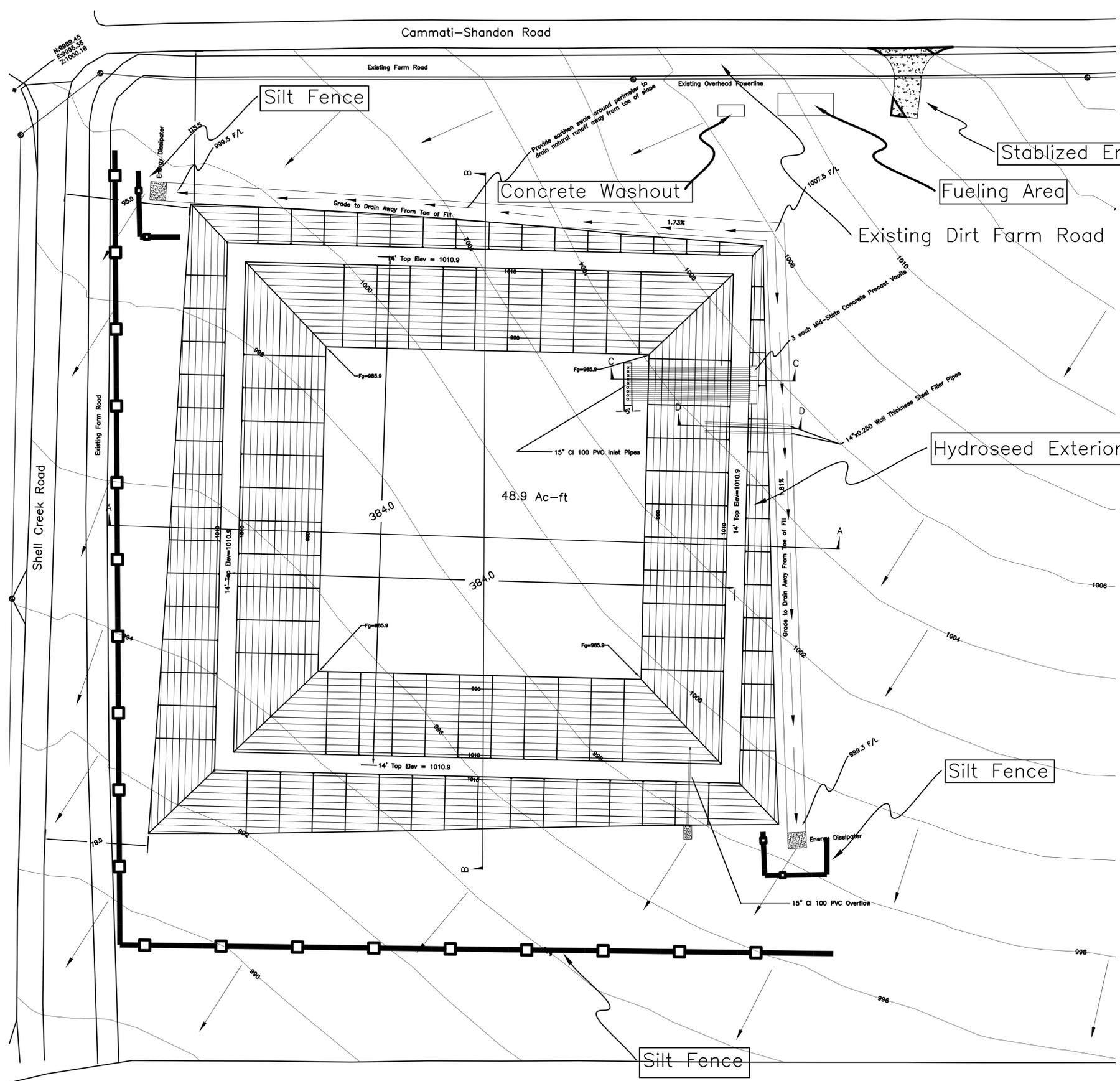
Concrete Liner Anchor Pad



Note: Concrete to be 2000 psi Rebar to be Grade 40



<i>San Juan South</i>		
DRAWN TH	DATE 11/05/15	Reservoir 4 49 Ac-ft Details
APPROVED	DATE	
SCALE as noted	SHEET 5 of 6	PROJECT NO. 060514



**Channel Design (Non-Erodible) North Ditch**

Channel Type: Triangular, Equal Side Slopes  
 Dimensions: Left Side Slope 10.00:1  
 Right Side Slope 10.00:1

Wetted Perimeter: 2.91  
 Area of Wetted Cross Section: 0.21

Channel Slope: 1.8000  
 Manning's n of Channel: 0.0200

Discharge: 0.36 cfs  
 Depth of Flow: 0.14 feet  
 Velocity: 1.73 fps less than 2.5 fps allowable  
 No protective BMP's required

Channel Lining: Earth, Uniform, Clean

**Channel Design (Non-Erodible) East Ditch**

Channel Type: Triangular, Equal Side Slopes  
 Dimensions: Left Side Slope 10.00:1  
 Right Side Slope 10.00:1

Wetted Perimeter: 3.53  
 Area of Wetted Cross Section: 0.31

Channel Slope: 1.8000  
 Manning's n of Channel: 0.0200

Discharge: 0.60 cfs  
 Depth of Flow: 0.18 feet  
 Velocity: 1.96 fps less than 2.50 fps allowable  
 No protective BMP's required

Channel Lining: Earth, Uniform, Clean

Designs based on NOAA Data for Cholame Valley  
 50 year storm

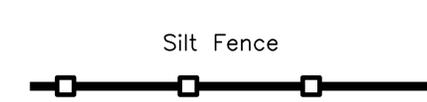
**Erosion Control Notes:**

- Erosion control measures shall be implemented on all projects and shall include source control, including protection of stockpiles, protection of slopes, protection of all disturbed areas, and protection of accesses. In addition, perimeter containment measures shall be placed prior to the commencement of grading and site disturbance activities unless the Engineer determines temporary measures to be unnecessary based upon location, site characteristics or time of year. The intent of the erosion control measures shall be to keep all sediment from entering a swale, drainage way, watercourse or onto adjacent properties. An approved Erosion Control and Sedimentation Control Plan will require County approval.
- Site inspections and appropriate maintenance of erosion control devices shall be conducted and documented prior to, during, and after rain events.
- The developer shall be responsible for the placement and maintenance of all erosion control devices as specified by the approved plan until such time that the project is accepted as complete by the Engineer. Erosion control devices may be relocated, deleted or additional items may be required depending on the actual soil conditions encountered. Additional erosion control shall be placed at the discretion of the Engineer of Work, Engineer, SWPPP Monitor or RWQCB Inspector. Guidelines for determining appropriate erosion control devices are included in the appendix of the Public Improvement Standards.
- All erosion control devices shall be the first order of work and shall be in place between October 15 and April 15 or anytime when the rain probability exceeds 30%. This work shall be installed or applied after each area is graded and no longer than five (5) working days after the completion of each area.
- The Engineer of Work and the Engineer shall be notified before October 15 for inspection of installed erosion control devices.
- A standby crew for emergency work shall be available at all times during the rainy season (October 15 through April 15). Necessary materials shall be available and stockpiled at convenient locations to facilitate rapid construction or maintenance of temporary devices when rain is imminent.
- Permanent erosion control shall be placed and established with 70% coverage on all disturbed surfaces other than paved or gravel surfaces prior to final inspection. Permanent erosion control shall be fully established prior to final inspection. Temporary erosion control measures shall remain in place until permanent measures are established. A water truck shall be used to water areas hydroseeded until the planting is established. In the event of a failure, the developer and/or his representative shall be responsible for cleanup and all associated costs or damages.
- Slurry Mix: The slurry mix shall be composed of the following materials:
 

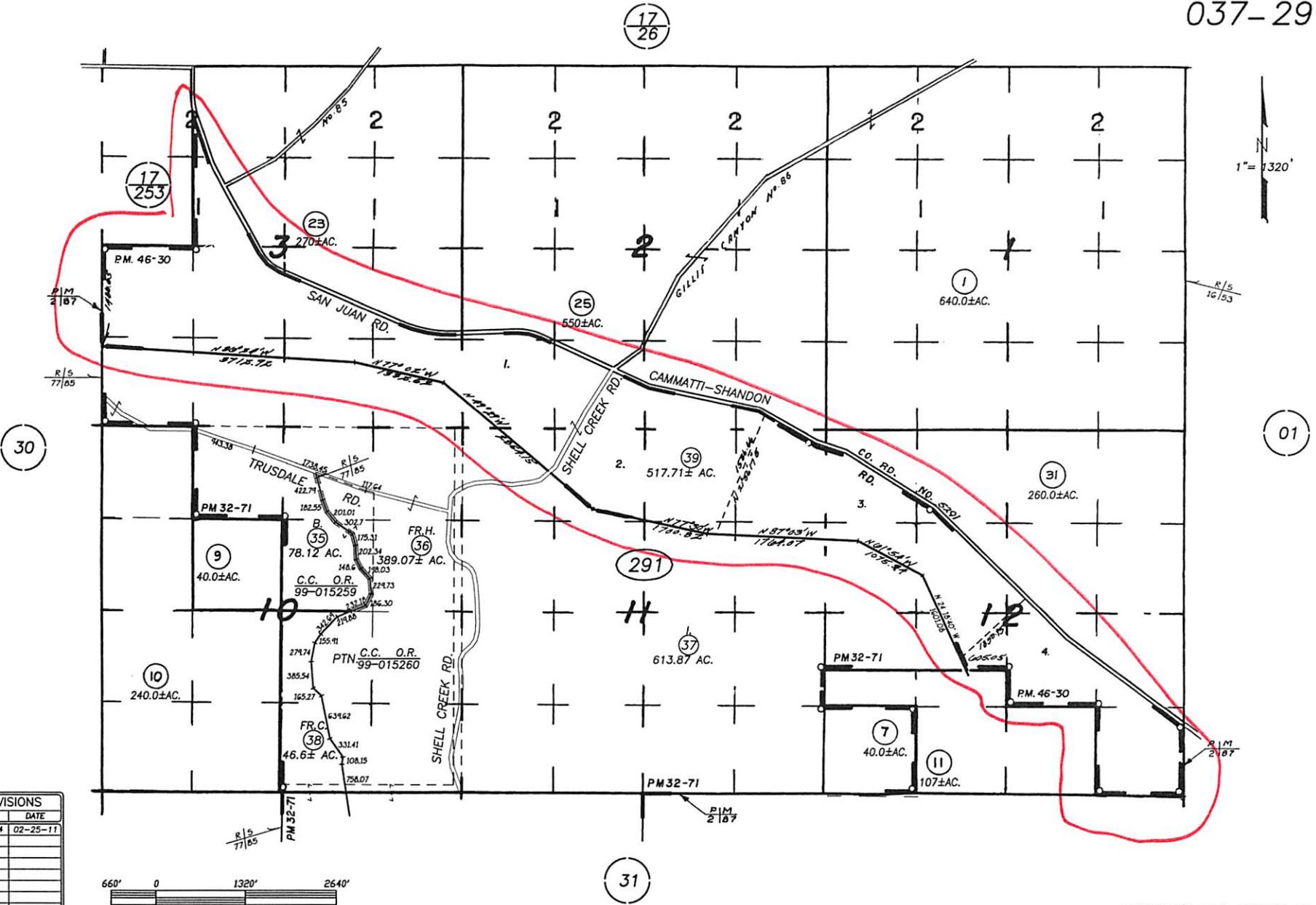
Bromus mollis - Blando Brome (95%, 85%)	20 pounds per acre
Festuca megalura - Zorro Fescue (85%, 80%)	8
Trifolium hirtum "Hykon" - Rose Clover (95%, 90%)	30
inoculated with appropriate bacteria	3
Eschscholzia californica - California Poppy (95%, 75%)	3
Lupinus nanus - Sky Lupine (95%, 75%)	4

(Seed available at S&S Seeds (805) 684-0436)
- Other Materials:
 

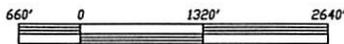
100% Wood fiber mulch (green)	1600 pounds per acre
Commercial Fertilizer (16-20-0)	400
"M-Binder" (stabilizing emulsion) or equal	120
Water (as needed for application and as specified by manufacturer)	
- Application: The slurry preparation shall take place at the site and in the presence of the Engineer. Spraying of the slurry shall be done by an experienced hydroseeding company and commence within five minutes after all the materials have been mixed thoroughly.
- The hydroseeded areas shall be watered with a fine mist on a daily basis until the seed begins to germinate then every other day until the roots are established and 70% of the area is covered. Do not use the side spray of a watertruck but instead use a nozzle adjusted to spray a fine mist attached to a hose.
- BMP's to be constructed include but are not limited to:
  - Silt Fence
  - Stabilized Construction entrance
  - Concrete washout area
  - Fueling area



<i>San Juan South</i>		
DRAWN	DATE	Reservoir 4
TH	11-05-15	49 Ac-ft
APPROVED	DATE	Erosion & Sedimentation Plan
SCALE	SHEET	PROJECT NO.
1"=40'	6 of 6	060514

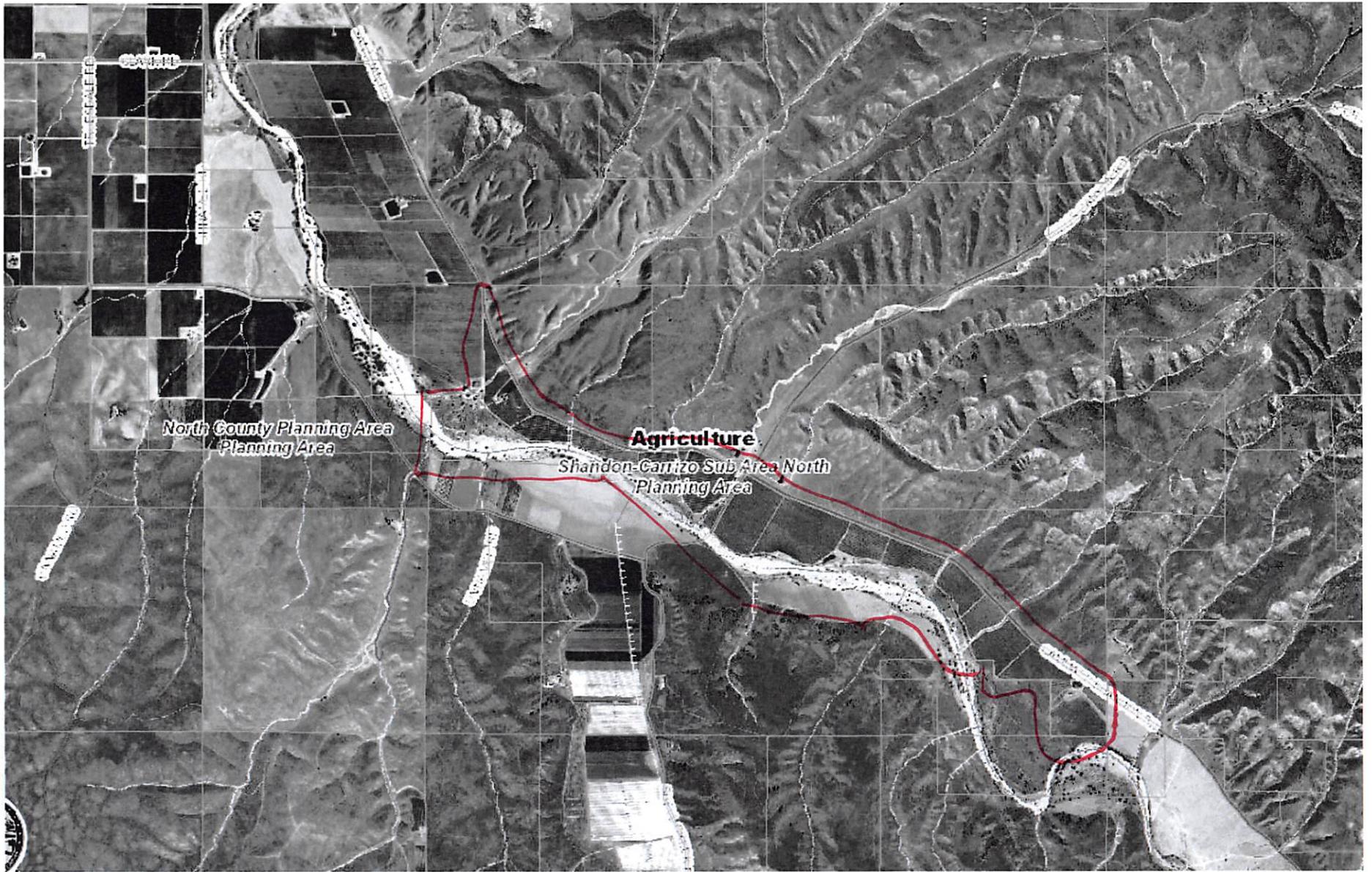


REVISIONS	
I.S.	DATE
11-164	02-25-11



JAW  
05-11-99 THIS MAP IS PREPARED FOR ASSESSMENT PURPOSES ONLY.

T 27 S R 15 E M.D.M.





# Parcel Summary Report For Parcel # 037-291-039

3/9/2016  
2:39:36PM

## San Luis Obispo County Department of Planning and Building

County Government Center

San Luis Obispo, California 93408

Telephone: (805) 781-5600

### People Information

#### Role    Name and Address

OWN    BRODIAEA INC  
          PO BOX 12958 SLO CA 93406-2958  
OWN    BRODIAEA INC A DE CORP

### Address Information

Status            Address  
P                    01665 CAMMATTI SHANDON RD NCSHCA  
P                    01995 CAMMATTI SHANDON RD NCSHCA

### Lot Information:

<u>Tract / Twncshp</u>	<u>Block / Range</u>	<u>Section</u>	<u>Community:</u>	<u>Plan/Area:</u>	<u>Lue 1:</u>	<u>Lue 2:</u>	<u>Lue 3:</u>	<u>Lot:</u>	<u>Flags:</u>	<u>Misc</u>
CO83-	214	0001	North Cty. Plan	North County I AG				Y		
CO83-	214	0002	North Cty. Plan	North County I				Y		
CO83-	214	0003	North Cty. Plan	North County I				Y		
CO83-	214	0004	North Cty. Plan	North County I				Y		

### Parcel Information

Status    Description  
Active    PM 46/30 PARS 1 2 3 & 4

Notes  
THE RECORDED PARCEL MAP REFERENCE IS PM 46/30 NOT PM 44/30. JSM

Tax Districts  
SHANDON JT(27,40)  
SAN LUIS OBISPO JT(27,40)  
SHANDON  
NO. 01



# Parcel Summary Report For Parcel # 037-291-039

3/9/2016  
2:39:37PM

## San Luis Obispo County Department of Planning and Building

County Government Center

San Luis Obispo, California 93408

Telephone: (805) 781-5600

AREA NO. 21

### Case Information

**Case Number:**

**Case Status:**

81698 FNL Primary Parcel

**Description:**

ELECTRICAL AG POLE

C5352 FNL Primary Parcel

**Description:**

ELECTRICAL FOR AG WELL- 200 AMP/100 HP

PMT2002-17268 EXP Primary Parcel

**Description:**

CONST SF DWELLING D.O. #A590

PMT2002-17274 EXP Primary Parcel

**Description:**

CONST SF DWELLING D.O. (PCL 4 CO83-214)

PMT2002-17276 EXP Primary Parcel

**Description:**

CONST SF DWELLING D.O. #A592 (PCL 3 CO83-214)

PMT2002-17278 EXP Primary Parcel

**Description:**

CONST SF DWELLING D.O. (PCL 2 CO83-214)

PMT2006-01024 FNL Primary Parcel

**Description:**

ELECTRICITY FOR AG WELL 200 AMP 75 HP

PMT2006-01025 FNL Primary Parcel

**Description:**

ELECTRICITY FOR AG WELL 200 AMP AND 100 HP

PMT2006-01026 FNL Primary Parcel

**Description:**

ELECTRICITY FOR AG WELL 200 AMP AND 125 HP

PMT2014-00474 FNL Primary Parcel

**Description:**

200 AMP - 3 PHASE - 277/480V - ELECTRIC SERVICE FOR WELL (100 HP PUMP)

PMT2014-01338 RVW Primary Parcel

**Description:**



## Parcel Summary Report For Parcel # 037-291-039

3/9/2016  
2:39:37PM

### San Luis Obispo County Department of Planning and Building

County Government Center

San Luis Obispo, California 93408

Telephone: (805) 781-5600

MAJOR ENGINEERED GRADING FOR AG RESERVOIR (??? FT X ??? FT X 24 FT) WITH 40 MIL HDPE GEOMEMBRANE LINE, 6FT FENCE & INCLUDING A DROP INLET STRUCTURE. A SEPARATE PERMIT REQUIRED FOR ALL ELECTRICAL.

PMT2014-01982 FNL Primary Parcel

**Description:**

3-PHASE WELL METER (200 AMP) AND PUMP (75 HP)

PMT2014-03499 FNL Primary Parcel

**Description:**

NEW 400 AMP SERVICE 480/277 VOLT

S800038N APV Related Parcel

**Description:**

RENAME COMMATTI-SHANDON TO SHELL CK ROAD