



RANCHO MURIETA COMMUNITY SERVICES DISTRICT

15160 Jackson Road, Rancho Murieta, CA 95683

Office - 916-354-3700 * Fax - 916-354-2082

IMPROVEMENTS COMMITTEE

(Directors Morrison Graf and Les Clark)

Regular Meeting

July 10, 2018 at 9:00 a.m.

All persons present at District meetings will place their cellular devices in silent and/or vibrate mode (no ringing of any kind). During meetings, these devices will be used only for emergency purposes and, if used, the party called/calling will exit the meeting room for conversation. Other electronic and internet enabled devices are to be used in the "silent" mode. Under no circumstances will recording devices or problems associated with them be permitted to interrupt or delay District meetings.

AGENDA

1. **Call to Order**
2. **Comments from the Public**
3. **Monthly Updates**
 - ✚ Development
 - ✚ Emergency Well Project
 - ✚ Wet Drainage Basins
4. **Water Plant Box Culvert Purchase**
5. **Crane Rental for Water Plant Box Culvert Offloading and Placement**
6. **Cantova Pump and Rail Replacement**
7. **Cantova Pump Station Bypass During Pump Replacement**
8. **Review Reimbursements Requested by Developer**
 - a. Highway 16 Bore, Caltrans Encroachment Permit and Install of Twelve Inch (12") Recycled Water Line
 - b. Recycled Water Line and LP Gas Line Installation from Murieta Gardens II – 78 Lots to Cantova Lift Station
 - c. Recycled Water Line Installation from Legacy Lane to Lookout Hill
 - d. Murieta Inn/Murieta Gardens Recycled Water Main
9. **Directors & Staff Comments/Suggestions [no action]**
10. **Adjournment**

*In accordance with California Government Code Section 54957.5, any writing or document that is a public record, relates to an open session agenda item and is distributed less than 72 hours prior to a regular meeting will be made available for public inspection in the District offices during normal business hours. If, however, the document is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting. **Note:** This agenda is posted pursuant to the provisions of the Government Code commencing at Section 54950. The date of this posting is July 6, 2018. Posting locations are: 1) District Office; 2) Rancho Murieta Post Office; 3) Rancho Murieta Association; 4) Murieta Village Association.*

MEMORANDUM

Date: July 6, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Utilities Monthly Updates

PROJECTS

Development

The Retreats East and North

No update.

The Retreats West

No update as it relates to District infrastructure. Homes are in the process of being framed and built.

The Murieta Gardens - Murieta Marketplace

This project is still on hold.

The Murieta Gardens – Highway 16 Off-Site Improvements

Work occasionally proceeds along Highway 16 for the road widening and development of an entrance in to the Murieta Gardens development. Coastland Engineering has been monitoring work when it occurs in the area of District infrastructure.

The Murieta Gardens II – Subdivision

The contractor has begun grading at the project site. A bore casing for the future sewer line that will run from this development to the Cantova sewer lift station has been installed.

Rancho Murieta North – Development Project

No update.

FAA Business Park

This project has not started yet but the owner notes it is going to move forward soon.

The Greens Neighborhood Park

No update.

EMERGENCY WELL PROJECT

Dominichelli & Associates provided a layout of the proposed easements needed for well site B and it was forwarded to Integra Realty Resources for land site appraisal.

MEMORANDUM

Date: May 31, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Approve Water Plant Box Culvert Purchase

RECOMMENDED ACTION

Approve the proposal from Jensen Precast for the purchase of a water plant box culvert in an amount not to exceed \$11,816. Funding to come from Water Capital Improvement Reserves as part of project No. 18-06-04 (Coastland #17-1-04)

BACKGROUND

This Capital Improvement Project is to upgrade a roughly built culvert crossing used to access to the back of the Water Treatment Plant. The need to upgrade this access is to allow staff access to the raw water screening station, access for diesel delivery to the emergency generator, dump truck access to our drying beds, as well as for fire control access to the back of the plant and open space areas behind the Water Plant. Currently the culvert crossing consists of two (2) 30" side by side polyethylene pipes covered by compacted soil and rock that was constructed for the Water Treatment Plant Expansion Project. It functioned sufficiently during the project; however, it was not anticipated that chemical deliveries would be required to access the back of the Water Plant using this route. Although this culvert crossing is typically ephemeral, it is fed by over a two (2) square mile water shed that has substantial flows during heavy periods of rainfall which overflow the makeshift roadway that was created there and periodically damages it. Also, some chemical delivery vendors have refused to use it due to it being narrow, muddy, and not ideal for sufficient load weight support.

Although this approved project called for the install a 4'x6' prefabricated box culvert and roadway in phases, due to a very heavy rainfall event this past year that overwhelmed the area, I requested costs for 4'x8' as well as 4'x6' to compare costs. The cost provided by Jensen Precast for the 4'x6' vs 4'x8' was only \$927 higher for an additional 4 square feet and is therefore being recommended as it is nominal in comparison to the work being done and the extra level of flow it provides.

Bids were solicited for a HS-20 traffic-rated precast culvert with the lowest bid coming from Jensen Precast. The approval amount being sought is for the 4'x8'x16' precast culvert with tax, shipping, 2 hours of standby charge, and a 15% contingency. The quote from Jensen includes a butyl rubber joint sealant for the top and bottom sections. Quotes are attached for reference.

The first phase is to obtain the Stream Alteration Permit; second is to order the box culvert; third is to remove the existing pipes and grade the site; fourth is to deliver, set, and backfill the box culvert; and fifth is to develop the roadway. My target timeframe to complete this project is late summer 2018 when the area should be relatively dry.



3430 PACHECO BOULEVARD
MARTINEZ, CA 94553
PH (916) 991-8800 FAX (916) 991-8810

5400 RALEY BOULEVARD
SACRAMENTO, CA 95838-1700
PH (916) 991-8800 FAX (916) 991-8810

12404 LOCKE ROAD
LOCKEFORD, CA 95237-9701
PH (209) 727-5573 FAX (209) 727-5833

4915A E. ANNADALE AVENUE
FRESNO, CA 93725
PH (559) 248-0270 FAX (559) 248-0271

QUOTATION

Quote #: TP061818B

Customer ID:

Bid Date: 6/18/2018

TO: **RMCS D**
ATTN: **Paul Siebensohn**
PHONE: 916-354-3700
FAX:
CITY: Rancho Murieta, CA
JOB: Seasonal Creek crossing

Quoted By: Tim Pellegrini
Quote Date: 6/18/2018
Ship Via: Line Truck

ITEM:	QTY:	SHIP CODE:	PART:	DESCRIPTION:	PRICE EACH:	EXTENDED:
1	1			6' x 4' x 16' Type 1 box culvert Jensen Precast Cantilever Wall Type I Box Culvert Price is Lump Sum AASHTO HS-20 Traffic Loading in accordance with ACI 318, and AASHTO LRFD (and ASTM C1786) Designed for 1-5 ft of cover Includes: - 16 linear feet of single cell 6' span by 4' height RCB - 2 part sections with separate base and cover - 1 ea - 16' long sections - End sections to be flat with threaded rebar inserts at 18" O.C. - Butyl rubber joint sealant for all joints between precast sections - Product offered will be supported by structural calculations and shop drawings Estimated weight of heaviest section: 27,000 lbs ADD \$105 per 50ft roll of 12" wide external sealing band (if required), ADD \$75 ea per gallon of joint wrap primer ADD \$10 each for threaded rebar dowels (if required) NOTE: Jensen Precast offers the Type I Cantilever Wall Box Culvert as an alternate bid item as an equal to the plans and specs. Acceptance of order based on engineer's approval of alternate submittal.	\$7,969.00	\$7,969.00
2	1			8' x 4' x 16' Type 1 box culvert Jensen Precast Cantilever Wall Type I Box Culvert Price is Lump sum AASHTO HS-20 Traffic Loading in accordance with ACI 318, and AASHTO LRFD (and ASTM C1786) Designed for 1-5 ft of cover Includes: - 16 linear feet of single cell 8' span by 4' height RCB - 2 part sections with separate base and cover - 1 ea - 16' long sections - Butyl rubber joint sealant for all joints between precast sections - Product offered will be supported by structural calculations and shop drawings Estimated weight of heaviest section: 31,000 lbs ADD \$105 per 50ft roll of 12" wide external sealing band (if required), ADD \$75 ea per gallon of joint wrap primer	\$8,896.00	\$8,896.00

SHIPPING CODES

- 1 - DELIVERED AND SET
- 2 - DELIVERED: F.O.B. TRUCK
- 3 - DELIVERED AND OFFLOADED
- 4 - F.O.B. JENSEN PRECAST YARD
- 5 - OTHER AS SPECIFIED
- A - DELIVERY WITH COMBINED SHIPMENT
- B - DELIVERY PRE-ATTACHED
- C - ASSEMBLED AND SEALED

ALL ORDERS ARE SUBJECT TO CREDIT APPROVAL AND ACCEPTANCE BY SELLER.
 TAX CHARGED SUBJECT TO CALIFORNIA SALES AND USE TAX REGULATION 1521 - SEE TERMS AND CONDITIONS.
 DELIVERY TRIPS, SETTING TIME, OR MATERIALS NOT NOTED ABOVE WILL BE BILLED ACCORDINGLY.
 PLEASE REFER TO WWW.JENSENPRECAST.COM/SACRAMENTO/SUPPORT/TERMS.HTM FOR COMPLETE TERMS AND CONDITIONS WHICH ARE HEREBY INCORPORATED INTO THIS DOCUMENT BY REFERENCE.
 QUOTATION IS VALID FOR 30 DAYS. THANK YOU FOR CHOOSING JENSEN PRECAST!



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ITEM:	QTY:	SHIP CODE:	PART:	DESCRIPTION:	PRICE EACH:	EXTENDED:
				ADD \$10 each for threaded rebar dowels (if required) NOTE: Jensen Precast offers the Type I Cantilever Wall Box Culvert as an alternate bid item as an equal to the plans and specs. Acceptance of order based on engineer's approval of alternate submittal.		
3	1		DELIVERY	DELIVERY & HANDLING CHARGE The same delivery charge would apply to either size box culvert Delivery to Rancho Murieta, CA on flat bed trucks. Contractor to offload and set. Delivery quantities based off of total estimated weight of line item #1 and may vary based on actual weights, contractor's schedule, and or availability of materials. Delivery price is for one hours of offload time. Additional standby time \$150.00 per hour per truck.	\$600.00	\$600.00

NOTE: ** Sales tax is not included in this quote ** All Pricing listed assumes that the job is ordered in whole as listed on the quote "If this is a prevailing wage project, notify Jensen Precast immediately to revise the quotation to include added costs." Jensen Precast reserves the right to change our quotation should additional information be provided subsequent to the quotation date.

One digital copy and one hard copy of submittals are included. Submittal revisions due to customer requested changes after acceptance of preliminary layout will be billed at a rate of \$85/HR for any additional drafting and/or engineering.

Multiple shipments will result in additional charges to be determined at time of request. Please allow 72 hour notice for all deliveries. Access must be acceptable to Jensen Precast for deliveries on 45' flat bed trailers. Customer is responsible for off-loading product at site. Jensen Precast standard shipping policies also apply. Deposit required for required lifting hardware. Full credit for returns within 7 days. 15% restocking fee applies after 7 days. No credit will be given on returns after 90 days. Customer agrees that they have read and signed Jensen Precast's Lifting Hardware Agreement.

Precautionary note: Extremely heavy product - Setting and handling limitations are critical. All weights are estimated and should be verified by the Contractor. Jensen Precast is not responsible for undersized equipment for setting of product. Lifting of this product requires a deposit for rental of lifting hardware.

We appreciate the opportunity to quote your precast needs. For further information about Jensen Precast and our products please visit www.jensenprecast.com.

Contact Info:
Tim Pellegrini
P: 916-992-8319 F: 916-991-8810
E: tpellegrini@jensenprecast.com

QUOTE TOTAL: \$17,465.00

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BY CUSTOMER

BY JENSEN PRECAST

CUSTOMER PO

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8' x 4'
Jensen Precast
Type 1 Split Box Culvert

AASHTO HS-20 Traffic Loading
In Accordance with

ASTM C1433
ACI 318
and
AASHTO

1 to 5 foot Soil Cover

Corporate Engineering Office
460 Dunn Circle
Sparks, Nevada 89431-5803
Phone 775-352-2700
Fax 775-352-6364

FILE NO. SBC-080416-T1-ASTM-105

MANUFACTURER OF PRECAST CONCRETE PRODUCTS

ALL CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 5000 psi

REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60 OR ASTM A706 GRADE 60. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.

EQUIVALENT AREA $F_v = 65000 \text{ psi}$ ASTM A 185 OR A 497 REINFORCING CAGES MAY BE UTILIZED IN LIEU OF GRADE 60 REINFORCING BARS.

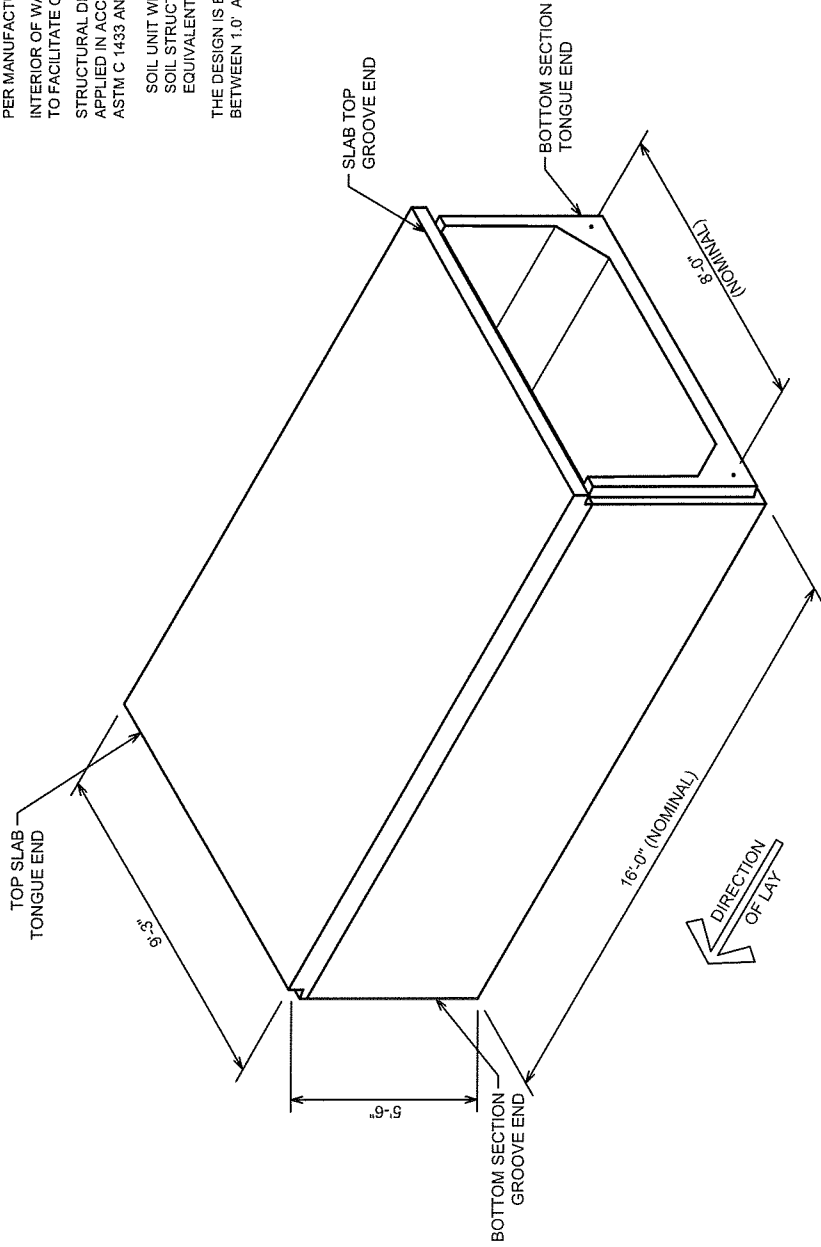
LIFTING INSERTS FOR HANDLING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

INTERIOR OF WALLS ARE SLOPED AT A RATE OF 1/4" PER FOOT TO FACILITATE CASTING OF PRODUCT.

STRUCTURAL DESIGN IS BASED ON AASHTO HS 20 LOADING APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C 1433 AND AASHTO.

SOIL UNIT WEIGHT - 120 lbs/cu.ft.
 SOIL STRUCTURE INTERACTION FACTOR - 1.15
 EQUIVALENT LATERAL PRESSURE - 60 lbs/cu.ft.

THE DESIGN IS BASED ON THE TOP SLAB AT ANY ELEVATION BETWEEN 1.0' AND 5.0' BELOW GRADE.

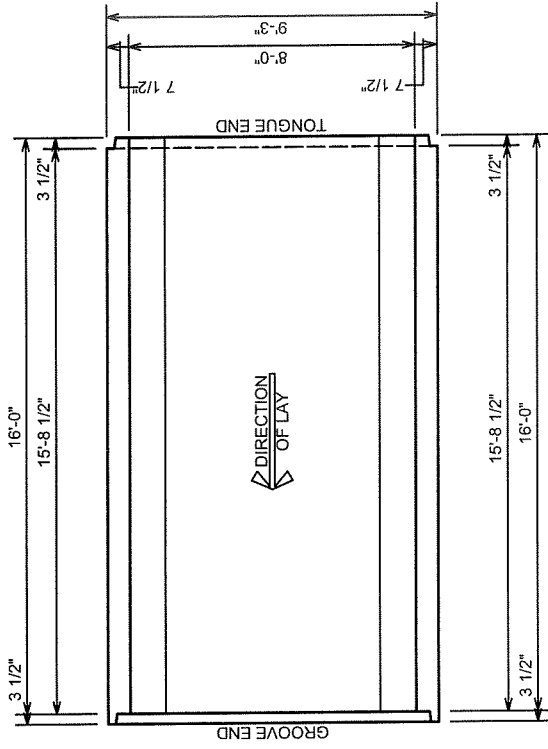


JENSEN PRECAST

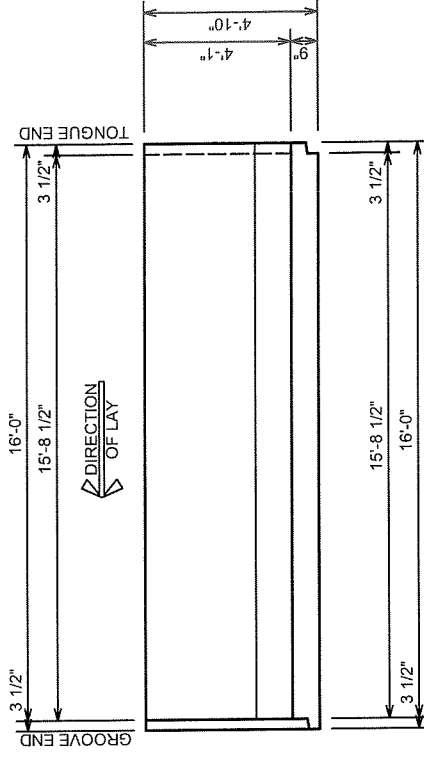
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REV.	DATE	DESCRIPTION
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2		
3		

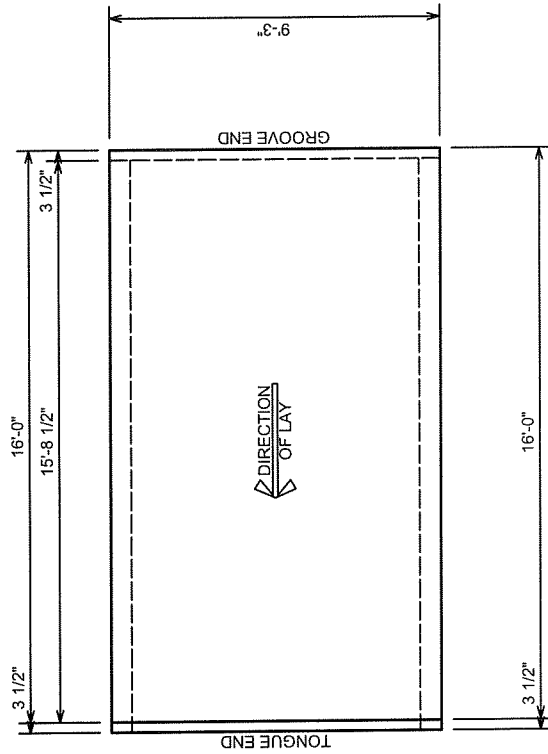
8'-0" x 4'-0"
 SPLIT BOX CULVERT
 ISOMETRIC
 JENSEN PRECAST



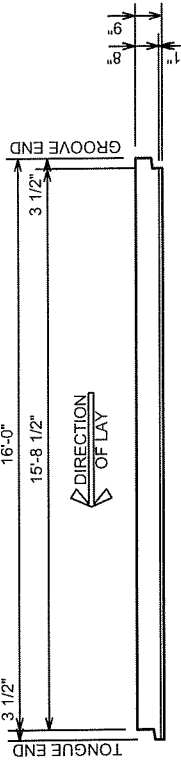
PLAN OF BOTTOM SECTION



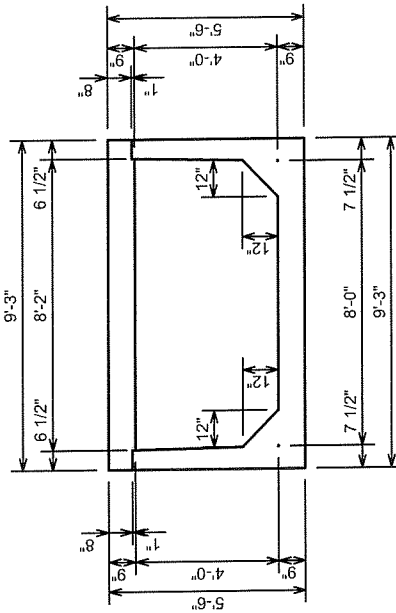
SECTION OF BOTTOM SECTION



PLAN OF SLAB TOP



SECTION OF SLAB TOP



ASSEMBLED CROSS SECTION

16'-0" LONG SLAB TOP SECTION - 4.05 CU.YD. - 16,480 LBS.
16'-0" LONG BOTTOM SECTION - 7.52 CU.YD. - 30,560 LBS.

HYDRAULIC DATA

31.33 SQUARE FEET
FLOW AREA
23.03 FEET
WETTED PERIMETER

8'-0" x 4'-0"

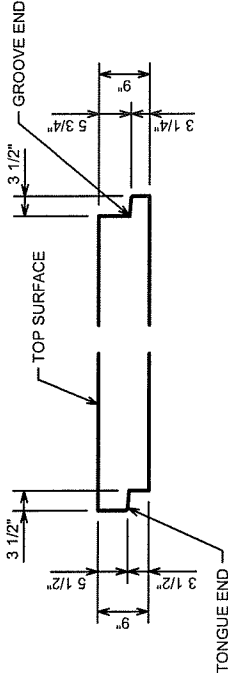
SPLIT BOX CULVERT
LAYOUT

JENSEN PRECAST

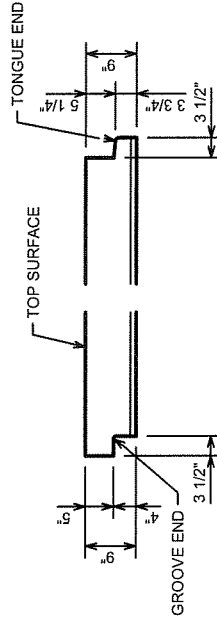


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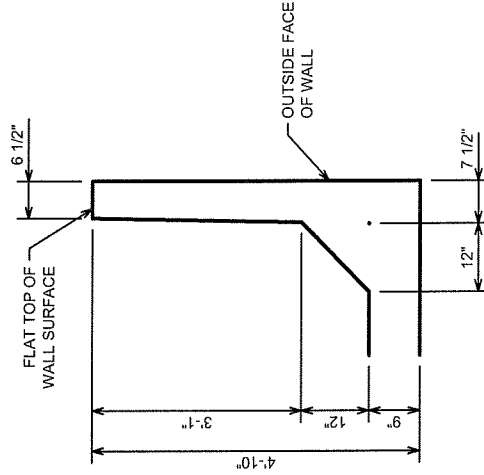
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3		
2		
1		
0	04-27-06	NEW DRAWING



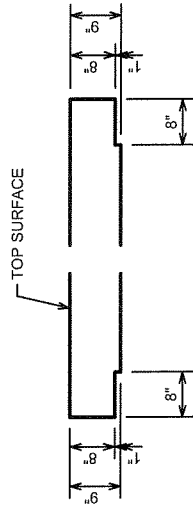
BOTTOM SLAB END JOINT DETAIL



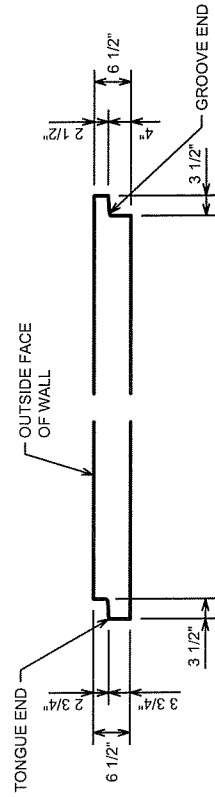
TOP SLAB END JOINT DETAIL



WALL TOP JOINT DETAIL



TOP SLAB EDGE JOINT DETAIL



WALL END JOINT DETAIL

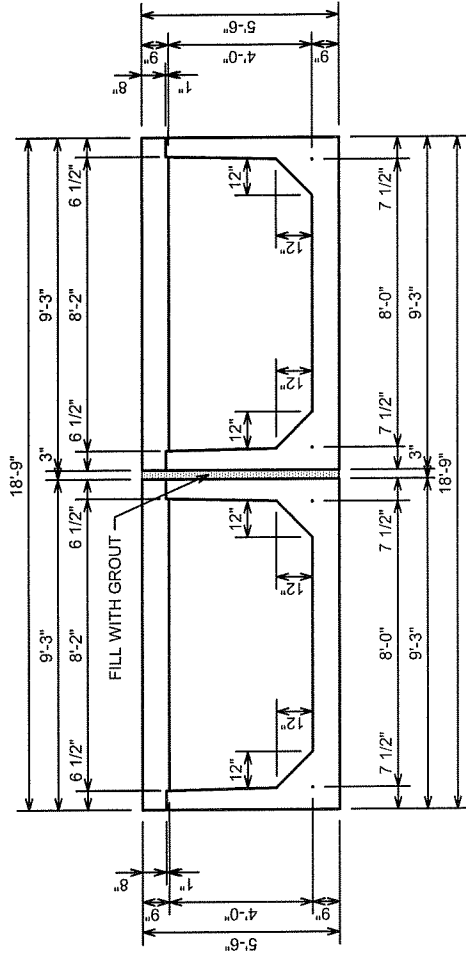
8'-0"x4'-0"
SPLIT BOX CULVERT
JOINT DETAILS

REV.	DATE	DESCRIPTION
0	04-27-06	NEW DRAWING
1		
2		
3		

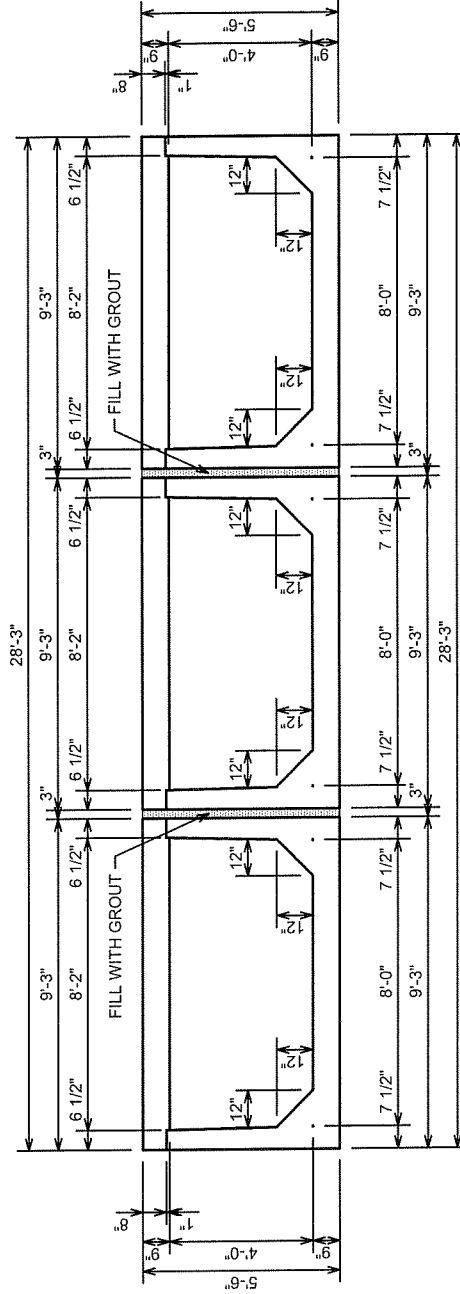


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JENSEN PRECAST



ASSEMBLED DOUBLE BARREL CROSS SECTION



ASSEMBLED TRIPLE BARREL CROSS SECTION

REV.	DATE	DESCRIPTION
3		
2		
1		
0	04-27-06	NEW DRAWING



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8'-0"x4'-0"
 SPLIT BOX CULVERT
 MULTI-BARREL DETAILS
 JENSEN PRECAST

Contract & Proposal

Quote No.: S246551-1

 3800 E MARIPOSA RD
 Stockton, CA 95215

 Telephone : 925- 846-8183
 Fax: 925-846-4904

www.oldcastleprecast.com

Quote To .: Bidders

Ship To .: Rancho Murieta Box Culvert
 tbd
 Rancho Murieta, CA 95683

Reference :
Contact:
Phone:

Order No	Date	Customer No	Terms	Cash discount	Delivery terms	Quote valid for:
S246551	6/19/2018	003400	Cash on Delivery		FOB Job Site	30 days

Qty	Unit	Item	Description	Mark	Unit price	Amount
1.00	Ea	0000001	___ 6 X 4 BOX CULVERT ___			
2.00	Ea	1900000	6' x 4' x 8' Long Box Culvert		16,100.00	32,200.00
1.00	Ea	0000001	-----			
1.00	Ea	0000001	___ 8 X 4 BOX CULVERT ___			
2.00	Ea	1900000	8' x 4' x 8' Long Box Culvert		17,000.00	34,000.00
1.00	BOX	99958815	ConSeal Butyl Sealant 1in Width 8 Rolls/Box CS102		110.00	110.00
1.00	Ea	9400300	Freight Out/Ltl Load		650.00	650.00
1.00	Ea	0000005	Terms & Conditions			
			1. Pipe -			
			** FOB Jobsite – Unloaded -			
			Plus Tax			
			** Customer responsible for			
			offloading 12in and 15in RCP			
			** Job site must be no more			
			than 2% grade for offloading RCP			
			:			
			2. Box Culvert –			
			** FOB Jobsite – Customer to			
			offload - Plus Tax			
			3. Quote Valid for Thirty (30) Days			
			4. Freight- Freight is quoted for			
			full truck load quantities. Short			
			:			

Contract & Proposal

Quote No.: S246551-1

 3800 E MARIPOSA RD
 Stockton, CA 95215

 Telephone : 925- 846-8183
 Fax: 925-846-4904

www.oldcastleprecast.com
Quote To .: Bidders

Ship To .: Rancho Murieta Box Culvert
 tbd
 Rancho Murieta, CA 95683

Reference :			Contact:		Phone:		
Order No	Date	Customer No	Terms	Cash discount	Delivery terms	Quote valid for:	
S246551	6/19/2018	003400	Cash on Delivery		FOB Job Site	30 days	

Qty	Unit	Item	Description	Mark	Unit price	Amount
			load quantities beyond our control will be subject to additional freight to cover cost of delivery. Oldcastle requires a minimum of 24 hours notice prior to delivery for cancellation. Cancellations with less than 24 hours notice will be charged full freight in addition to the rescheduled delivery charges.			

Tax Code	Taxable amount	Tax Rate	
CA	66,310.00	6.25	4,144.38
CA-Local	66,310.00	1.00	663.10
CA-STAT	66,310.00	0.50	331.55

All products and services listed on this Quotation are provided under the Standard Terms and Conditions located at:
<https://oldcastleprecast.com/standard-terms-and-conditions-material-sales/>

QUOTATION TOTAL US 72,099.03

IMPORTANT: This proposal is based on standard terms and conditions. Items and quantities shown are the basis for the quotation, and we are not responsible for any discrepancies between this list and actual items or quantities.

 (Accepted by)

Sales Person: Stuart Davis

Telephone: 209-466-4212

 (Position)

 (Date)

By: _____

MEMORANDUM

Date: July 6, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Approve Crane Rental for Water Plant Box Culvert Offloading & Placement

RECOMMENDED ACTION

Approve the proposal from American Crane for crane rental for water plant box culvert offload and placement, in an amount not to exceed \$3,163, including a 15% contingency. Funding to come from Water Capital Improvement Reserves as part of project No. 18-06-04 (Coastland #17-1-04).

BACKGROUND

As an additional requirement for the Water Plant Box Culvert Purchase, bids were solicited for the offloading and placing of a precast culvert with the heaviest section being estimated at 31,000 pounds. The lowest bid was from American Crane Rental. The approval amount being sought is for an 8-hour day at straight time and 2 hours overtime with a 15% contingency to cover any unforeseen circumstances. It is estimated that the offloading and placing be completed within 4 hours. All crane bidders bid from portal to portal and the roundtrip drive for them is estimated at 3 hours alone. Only two (2) of the three (3) solicited provided quotes and the quotes are attached for reference.



PROPOSAL

Ph: 209-838-8815 Fax: 209-838-8816
Toll Free: 1-888-CRANE-30

Proposal #	RM7518-3
Job Name	Precast Box Culvert
Date	7-5-18

Proposal To:

Job Location:

<p>Paul Siebensohn Director of Field Operations Rancho Murieta CSD ph.(916)354-3700 fx. (916)354-2082 Email: psiebensohn@ranchomurietaacsd.com</p>	<p>Water Treatment Facility Past 6237 Camino Del Lago Dr. Rancho Murieta, CA 95683</p> <p>Estimated Start Date: September 2018 Field Contact: Cell/Ph.:</p>
---	---

American Crane Rental is pleased to submit this proposal to provide crane services for the estimated amount of:

\$2,247 crane at 8 hours

Scope of Work:

Project consists of unloading and setting an 8' x 4' x 16' precast box culvert at 35' radius. Crane capacity at 34,000 lbs. before deductions. ACR has not walked site and assumes all access and crane placement are acceptable. Bid at 8 hours including travel but will be billed with minimum of 4, 6, 8 or any additional time needed.

- **Provide: 70 ton crane**
- Up: In: Setback: Maximum radius of: 35' Maximum Weight: 31,000 lbs.
- **Job to be done on a Weekday**
- **6% fuel included in cost**
- **Travel permit will be added if required**
- Pilot car cost will be added if required
- \$175 basic lift plan cost if required
- Excessive lift plans will have additional cost
- Toll bridge cost will be added if required
- Standard traffic control and road closure by contractor if required.
- Customer is responsible for security for unattended equipment left onsite.
- American Crane Rental acknowledges that your company will be doing the Rigging and Signaling, and if required American Crane Rental can supply certified Riggers and Signalmen at an extra charge.
- **This is an estimated Time & Material Proposal.**
- **All cranes, trucking & Forklift services are subject to a fuel surcharge based on Market conditions**
- The above estimate is for minimum of 4 hours (portal to portal). For additional time, our cranes will be billed at the following rates:

Straight time (8hour weekday):	\$265.00 per hour minimum 4, 6, 8 Hrs.
Overtime after 8 hours weekday and first 8 hours on Saturday:	\$315.00 per hour
Double time after 10 hours weekday and after 8 hours Saturday:	\$365.00 per hour

The Straight Time rate is based on an 8 hour minimum, Overtime is between the 8th and 10th hour at a rate specified (and the first 8 hours on Saturday), and Double Time is after the 10th hour (or after the 8th hour on Saturday, all day Sunday or Holidays).

P.O. Box 308 Escalon, Ca. 95320 209-838-8815 Fax: (209) 838-8816 Contractors Lic # 957693
www.americancranerental.net

Please review the Clarification Section of our proposal and if it is acceptable to you, sign and return this proposal as authorization to proceed with the work. Please feel free to call me if you have any questions. American Crane Rental looks forward to continue working with you on this project.

This information is intended only for the use of the Individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of any of the information contained in this proposal is Prohibited.

American Crane Rental

Authorized Signature

Date: _____

Print or type name

Date: _____

209-838-8815

P.O. # _____

Clarifications

1. This proposal is in accordance with the terms and conditions of the American Crane Rental (American) Rental Agreement. Our proposal and pricing are based on this submittal and all terms and conditions herein forming part of the resulting contract by inclusion.
2. The Client named above agrees that the retention of American to conduct work described above forms a contractual relationship between the Client and American Crane, upon which the following terms and conditions are incorporated. American Crane agrees to submit invoices detailing the time worked and a listing of other direct (and indirect) costs charged to the project.
3. Client agrees to pay all invoice amounts as **C.O.D. "Due upon receipt"**. Clients with an established account with American Crane Rental, Inc., agrees to pay all invoices submitted within fifteen (15) days after receipt of an invoice, and agrees to reimburse American Crane Rental, Inc. for any costs incurred, including legal costs and interest charges, for failure to remit payment according to these terms. – **"NO RETENTIONS"**
4. American's limit of liability for any and all claims, losses, expenses or damages related to this proposal shall not exceed the total amount of the fees described above. Neither Client nor American shall be liable to the other for any consequential damages arising out of or related to the performance of this proposal.
5. This proposal is valid for **30 days** and is subject to **Equipment availability and/or prior commitment**.
6. If pre-job safety or heavy lift presentations are required our representative will charge \$75.00/hr. portal to portal. If heavy lift or positioning drawings are required they will be charged at a rate of \$250.00 each.
7. Hourly crane rates including travel are billed portal to portal unless otherwise specified. All permits will be billed at cost plus 15%
8. Adequate access without obstruction to rig in/out and stage crane. Lane closure, traffic control and permits by others.
9. Electrical, mechanical and anchor connections and disconnection's by others.
10. Stand-by time beyond the control of American will be subject to additional charges.
11. **"EXCUSE OF PERFORMANCE" DELAYCOSTS:** After the Equipment is delivered if Lessor's performance is suspended, delayed, or interrupted by the Lessee, weather or wind conditions, the project manager, building inspector, project owner, or any other party, or for any reason outside of Lessor's control, Lessee will be responsible for any increased cost caused by the suspension, delay, or interruption. The delay/disruption cost will be calculated based upon the hourly rate in the rental agreement and billed to Lessee as an additional charge.
12. Any prevention, delay or stoppage due to strikes, lockouts, labor disputes, acts of God, inability to obtain labor or materials or reasonable substitutes therefore, governmental action, domestic or foreign, riot, civil commotion, tire or other casualty and all other causes beyond the reasonable control of Lessor shall excuse Lessor's performance for a period equal to such prevention, delay or stoppage. Lessee hereby waives all claims against Lessor for and delay or loss of materials by reason of any shutdown, or failure of the equipment for any reason.
13. All crates and packing by others.
14. Units to be free of all Toxins.
15. American Crane assumes no responsibility for site preparation and/or site damage. American Crane will take limited precautions but will not be responsible for any damage to underground utilities, curbs, gutters, concrete slabs, sidewalks, pavement, trees or shrubs, including sprinkler or under-ground irrigation systems. Any damage to tires or wheels due to jobsite conditions will be the responsibility of the Lessee. Others are to provide and maintain a clear, firm site with backfill in place and leveled to approximate grade suitable for operation of the equipment.
16. This proposal is based upon weights, dimensions and crane radius as specified by customer. Qualified personnel should verify Jobsite conditions and measurements with crane experience prior to start of job.
17. If American Crane receives equipment, we will not be responsible for any damage to top, bottom or for internal malfunctions at the point of shipping or during shipment.
18. American Crane is not providing radios and/or signalmen in this proposal. Lessee agrees to provide competent and experienced personnel to signal/direct crane. Size and capability of rigging used for work performed is at the sole discretion of the Lessee.
19. This proposal is based upon one (1) mobilization, with our work being a continuous operation while at the jobsite.
20. This proposal is subject to field verification of jobsite conditions by an American Crane representative prior to start of work.
21. American Crane will not be responsible for structural integrity of unit being lifted or lifting devices provided by others.
22. Steel plates and/or mats if required are not included in this proposal.
23. Labor minimums, subsistence, crew travel and overtime will be billed pursuant to the controlling union contract unless otherwise specified.

P.O. Box 308 Escalon, Ca. 95320 209-838-8815 Fax: (209) 838-8816 Contractors Lic # 957693

www.americancranerental.net

24. American Crane will offload, reload and store units for your convenience. The cost of offload and reload is based on size and weight of units /equipment. Storage is FREE up to 30 days. Storage cost after 30 days is billed at \$200.00 dollars per month for 600 square feet, if more space is needed the additional footage will be billed at \$0.50 (fifty cents) per square foot. American Crane Rental, Inc. is a non-bonded facility and assumes no responsibility for theft or damage of any kind.

INITIAL _____

P.O. Box 308 Escalon, Ca. 95320 209-838-8815 Fax: (209) 838-8816 Contractors Lic #
957693
www.americancranerental.net



Bigge New LTM1400 – RENT READY!

SALES REP. : Wayne Matheny

Email : wmatheny@bigge.com

Phone : (510) 760-5296

QUOTE # : Q-00059836

DATE : 06/21/2018

QUOTE EXPIRATION DATE : 09/19/18

CUSTOMER INFORMATION :

Paul Siebensohn

Rancho Murieta CSD

Tel: 9163543700

Email: psiebensohn@rmcsd.com

BILLING ADDRESS :

15160 Jackson Rd.

Rancho Murieta, CA CA USA 95683

JOB SITE (S) :

- Rancho Murieta, California, 95683

PROJECT NAME : Precast Box Culvert

Bigge Crane and Rigging Co. is pleased to furnish operated and maintained crew and equipment to work as directed to hoist 2 each pieces of a precast concrete box culvert weighing up to 31,000 lbs. from customers trucks and set in place at a maximum crane radius of 30 ft.

O&M Rental

100-Ton Hydraulic Truck Crane

Rental Rate	Straight Time	\$300.00	Hour	8 Hour Minimum
	Over Time	\$350.00	Hour	Portal to Portal, Stockton CA
	Double Time	\$400.00	Hour	
Permit	One Time	\$50.00		Each

Rigger Foreman with Gear Truck

Rate	Straight Time	\$150.00	Hour	8 Hour Minimum
	Over Time	\$200.00	Hour	
	Double Time	\$250.00	Hour	

Included in this Proposal

- O&M crane service
- Rigger foreman/signalman (upon request)- if not provided by Bigge, customer to provide qualified personnel per Cal OSHA regulations
- Standard rigging

Provided by Others

- Customer to provide a safe work area for Bigge's equipment/crew
- Customer to provide cam locks if required for lifting of the box culvert





Bigge New LTM1400 – RENT READY!

Please read the Bigge Crane and Rigging Co. ("Bigge") standard terms and conditions, and your quote-specific terms, conditions and clarifications (together, the "Referenced Terms") at this link: [Terms & Conditions](#). A copy will be provided upon request. THE REFERENCED TERMS ARE INCORPORATED HEREIN BY THIS REFERENCE AND MADE A PART HEREOF, AND WILL BE INCORPORATED IN AND MADE A PART OF THE MOBILE CRANE SERVICES AGREEMENT. The Referenced Terms, together with the equipment description and pricing set forth above and/or in the Services Agreement, shall be the SOLE AND EXCLUSIVE writing governing any equipment lease or performance described herein. Any different or additional terms that may be contained in customer's document are hereby REJECTED in their entirety. Start of services or acceptance of delivery of equipment shall be deemed acceptance of the Reference Terms. Performance or Partial Performance by Bigge shall not be deemed an acceptance of any customer's terms.

BIGGE CRANE AND RIGGING CO.

RANCHO MURIETA CSD

 SIGNATURE

 SIGNATURE

 NAME (PRINT)

 DATE

 NAME (PRINT)

 DATE

 TITLE

 TITLE



MEMORANDUM

Date: July 6, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Approve Cantova Pump and Rail Replacements

RECOMMENDED ACTION

Approve the proposal from Xylem for Cantova pump and rail replacements in an amount not to exceed \$41,722.36. Funding to come from Sewer Capital Replacement Reserves.

BACKGROUND

The Cantova Sewer Pumping Station was last updated in 1988 with various rehabilitations occurring to the pumps between over the last 30 years. The pumps currently in operation are no longer manufactured or supported. They frequently bind up due to materials in the sewer system and are in dire need of replacement. We sought what we and our District engineers agreed would be the best sewer pumps for passing solids and the prevention of “ragging up” with long term viability for the community for which this pump station serves, which is the Operating Engineers and Teamsters Training School, airport, Catholic church, Murieta Village, Equestrian Center, the soon to be built Murieta Gardens II development, and Murieta Business Park. The pumps are self-cleaning and are high efficiency for better power savings.

The approval amount being sought is for three (3) Flygt Model NP pumps (two (2) in service and one (1) as a spare), discharge connections, guide bars, electrical components, and startup assistance, tax, with a 15% contingency to cover any unforeseen circumstances.



**Xylem Water Solutions USA, Inc.
Flygt Products**

June 21, 2018

790-A Chadbourne Rd
Fairfield, CA 94534
Tel (707) 422-9894
Fax (707) 422-9808

RANCHO MURIETA COMMUNITY SERVI
15160 JACKSON RD
PO BOX 1050
RANCHO MURIETA CA 95683

Quote # 2018-FFB-0232 Alternate 2, Version 1

Re: Rancho Murieta CSD - Cantova LS with spare pump

Xylem Water Solutions USA, Inc. is pleased to provide a quote for the following Flygt equipment.

Pumps

Qty	Description
3	Flygt Model NP-3127.070 4" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 7.5 HP 1750 RPM motor, 489 impeller, 1 x 50 Ft. length of SUBCAB 4G6+2x1,5 submersible cable, FLS leakage detector, volute is prepared for Flush Valve

Pumps Price USD \$ 26,715.90

Accessories

Qty	Description
2	CONNECTION,DISCH 4X4" CI
2	BRACKET,GUIDE BAR UPPER 2" 316
2	HOOK,SAFETY ASSEMBLY SS
40	CHAIN,3/16" 316L
2	KIT,CHAIN FITTING 3067-3127+ 316SS

Accessories Price USD \$ 3,539.76

Electrical

Qty	Description
2	MINI-CASII/FUS 120/24VAC,24VDC
2	SOCKET,11-PIN BACK MOUNTING

Electrical Price USD \$ 1,037.16

Services & Misc.

Qty	Description
1	START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000

Services & Misc. Price USD \$ 1,249.00

Total Project Price \$ 32,541.82

Freight Charge \$ 1,129.00

Total Project Price \$ 33,670.82





Terms & Conditions

This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at <http://www.xylem.com/en-us/Pages/terms-conditions-of-sale.aspx> and incorporated herein by reference and made a part of the agreement between the parties.

Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc.

Freight Terms: 3 DAP - Delivered At Place 08 - Jobsite (per IncoTerms 2010)
See Freight Payment (Delivery Terms) below.

Taxes: State, local and other applicable taxes are not included in this quotation.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of Seller.

Shortages: Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Terms & Conditions: Attached please find our Standard Terms & Conditions of Sale that apply to this order.

Taxes: State, local and other applicable taxes are not included in this quotation.

Time of delivery: Approximately 8-10 working weeks after approval of order and receipt of approved submittal.

Terms of delivery: PP/Add Order Position

Terms of Payment: 90% Net 45 days, 10% Net 120 days.

Changes: This Quote is based on the current design criteria provided to Xylem Water Solutions USA, Inc. Revisions may result in price changes.

Exclusions: This Quote includes only the items listed specified above.

Validity: This Quote will expire in ninety (90) days unless extended in writing by Xylem Water Solutions USA, Inc.

We thank you for your interest in Flygt equipment from Xylem Water Solutions USA, Inc. and look forward to being of service to you in the near future.

Sincerely,

Peter V. Galati II
Sales Representative
Phone: 707/430-0166
Cell: 916/804-8899
pete.galati@xylem.com
Fax:707-422-9808

Derek Dusome
Inside Sales Engineer
Phone: 951-332-3702

derek.dusome@xylem.com



Customer Acceptance

This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at <http://www.xylem.com/en-us/Pages/terms-conditions-of-sale.aspx> and incorporated herein by reference and made a part of the agreement between the parties.

A signed copy of this Quote is acceptable as a binding contract.

Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc.

Quote #: 2018-FFB-0232 Alternate 2, Version 1
Customer Name: RANCHO MURIETA COMMUNITY SERVI
Job Name: Cantova LS with spare pump
Total Amount: \$ 32,541.82 (excluding freight)

Signature: _____	Name: _____ (PLEASE PRINT)
Company/Utility: _____	PO: _____
Address: _____	Date: _____
_____	Phone: _____
_____	Email: _____
_____	Fax: _____



MEMORANDUM

Date: July 6, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Approve Cantova Pump Station Bypass During Pump Replacement

RECOMMENDED ACTION

Approve the proposal from Pac Machine for Cantova Pump Station bypass during pump replacement, in an amount not to exceed \$10,000. Funding to come from Sewer Capital Replacement Reserves.

BACKGROUND

When the Cantova Sewer Pumping station pumps get replaced, a bypass will need to be in place to allow the new pumps and appurtenances to be installed. Pac Machine was onsite to evaluate what would be needed for the bypass and provided the detailed quote that is attached. A weekly rental for the equipment that would be needed is \$6,660, however the quote does not note what delivery, installation, and startup would cost. That question has been emailed to Pac Machine noting that District staff would help with what they could and I assume we will have an answer by Committee meeting time. In the meantime, a plug approval amount of \$10,000 has been estimated.

As noted in the attached quote, the bypass would be set up to accommodate the two (2) influent pipes that provide flow into the lift station with flow through plugs leading to separate pumps, each being controlled to start and stop by floats installed in the upstream manholes.

8570 23rd Avenue
 Sacramento, CA. 95826
 Phone: 916 387-1336
 Fax: 916 387-1380

Pac Machine Co.
 Sacramento - Napa, CA
 Sparks, Elko, NV

To: Travis Bohannon
 Chief Plant Operator
 Rancho Murieta Community Services
 District

From: Frederick A. Kesich

Ph # 916-870-5368 **Date:** 05/16/2018

email: tbohannon@rmcsd.com **Pages:** 2

Re: Cantova **CC:** file

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

Travis: Bypass quotation for Cantova

Cantova Lift Station:

AA) To bypass the Cantova Lift station, Rental Quotation:

- 1) Existing pumps are 5 hp, 230 volt, 3 phase solid handling submersible sewage pumps which rag up often. (3 x week), due to paper products.
 - a. Rated at 270 gpm @ 35 feet each, (6.9" impeller?)
- 2) Proposed rental will utilize the 230 volt, 3 phase, utility and the existing backup gen set as the primary power and will have a diesel pump as the automatic backup
- 3) Flow is approx. 124 gpm average.
- 4) Need to confirm depth of wet well. Assume no greater than 20 feet below grade, (RMCS D, please confirm).
- 5) The Cantova lift station is fed by two lines, one connected to a man hole in the street in front of the operating engineers and one in the back yard behind the wall of the Murieta Village.
 - a. The two man holes that feed the Cantova lift station are not the best choices for the temporary sewage bypass pumps.
 - b. The best solution is to put Flow through Plugs in the incoming flow lines to the Cantova Lift Station.
 - c. If the Influent lines are 6" then the flow through plug can have a 4" port.
 - i. The Pumps for the line from the Village, (Ragging Source), will be Godwin **NC80M, 3" pumps**, (Utilizes the FLYGT NC impeller, designed to handle ragging issues with a cutter edge)
 - ii. The Pumps for the Operator Engineers will be the CD100M standard Dri-prime Godwin.

- iii. Primary pump is electric, powered from utility.
- iv. Backup pump is diesel, sound attenuated.
- d. Pump are controlled by High and low floats.
 - i. Floats from the Village Sump will be routed over the wall to the Cantova LS location.
 - ii. Float wires will be routed through the inflow pipe for the floats located in the Operating Engineers Man Hole.
- 6) NC100 rated at 325 gpm @ 35 ft. TDH
- 7) CD100 rated at > 500 gpm @ 35 ft. TDH

Rental Pricing:

Cantova Lift Station						
Description	Part #	WEEK	MONTH	Qty	Weekly Total	Monthly Total
Rental quotation						
NC80 electric	0.0035	\$600.00	\$1,800.00	1	\$ 600.00	\$ 1,800.00
NC80 s/a critical	0.0037	\$606.00	\$1,818.00	1	\$ 606.00	\$ 1,818.00
CD100 critical	115	\$745.00	\$2,300.00	1	\$ 745.00	\$ 2,300.00
cd100 elect		\$477.00	\$1,413.00	1	\$ 477.00	\$ 1,413.00
NC and CD control panel		\$93.00	\$279.00	4	\$ 372.00	\$ 1,116.00
Float controls		\$276.00	\$828.00	4	\$ 1,104.00	\$ 3,312.00
Flow Through Plug	PLFT1000000R	\$45.00	\$135.00	2	\$ 90.00	\$ 270.00
Discharge piping,		\$261.00	\$792.00	4	\$ 1,044.00	\$ 3,168.00
4" check valves		\$42.00	\$126.00	8	\$ 336.00	\$ 1,008.00
4" isolation valves		\$42.00	\$126.00	8	\$ 336.00	\$ 1,008.00
4" Suction and disch manifold		\$24.00	\$72.00	4	\$ 96.00	\$ 288.00
Spill containment		\$200.00	\$600.00	2	\$ 400.00	\$ 1,200.00
Suction piping with flange(HDPE		\$26.00	\$270.00	4	\$ 104.00	\$ 1,080.00
Auto Dialer		\$250.00	\$1,024.00	1	\$ 250.00	\$ 1,024.00
Power wire		\$100.00	\$350.00	1	\$ 100.00	\$ 350.00
Total rental not including install, transportation, or startup					\$ 6,660.00	\$ 21,155.00

Freight, Permits, fuel Install not included

Very Truly Yours



PAC MACHINE Co., Inc.



Frederick A. Kesich
 916-387-1336
 916-416-4222 cell
www.pacmachine.com

Notes:

FOR BYPASS OF FLOW FROM VILLAGE
NC Pumps are used for Bypassing
Inflow from The Village. The NC pumps
are selected for rag handling.

Float Controls for Primary and
Back Up pump are located in
supply sump and control wires are
routed over the fence to the
control panels.



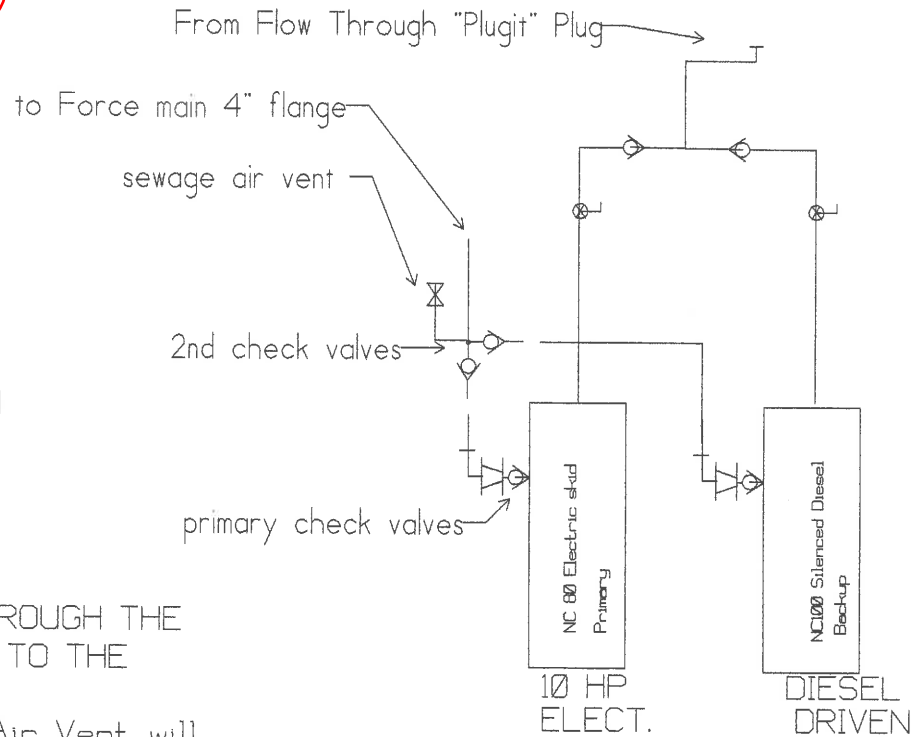
FOR BYPASSING OPERATING ENGINEERS:

SYSTEM WILL BE SAME HYDRAULIC DESIGN
AS ABOVE WITH THE FOLLOWING CHANGES:

PUMPS WILL CHANGE TO STANDARD
GODWIN CD100 SEWAGE PUMPS

FLOAT CONTROL WIRES TO BE ROUNED THROUGH THE
PIPE CONNECTING THE STREET MAN HOLE TO THE
CANTOVE SUMP.

Notes: Sewage Air Vent will
be fitted with an isolation
valve and a valved flush inlet
to test and clean pipes.



STAND MOUNTED NEMA 3R CONTROL PANEL
POWERED BT UTILITY @ 230 VOLT.

RMCS D	REV # 0		Drawn by FK	Checked by sfk	Date 05/16/2018
CANTOVA LS			Scale		Reg no 5299
Rev.no GEN ARRANG	Date		Checked	CANTOVA RMCS D	
PAC MACHINE Co., Inc. BENICIA / SACRAMENTO / SPARKS / ELKO 1-707-257-2750 / 1-916-387-1336 / 775-359-8500					

NC80 Dri-Prime® Pump

FOR VILLAGE TO HANDLE RAGGING

The Godwin Dri-Prime NC80 pump is an extremely powerful yet compact pump with flow capabilities to 520 USGPM.

The **NC80** features the unique patented **Flygt N-technology** with its innovative self-cleaning impeller.

NC Series pumps are engineered to deliver sustained high efficiency resulting in lower energy and fuel costs while reducing unplanned downtime.

This makes the NC80 a best-in-class portable pump suitable for both sewage and clean water applications.



Features and Benefits

- Dri-Prime (continuously operated Venturi air ejector priming device) requiring no periodic adjustment. Optional compressor clutch available.
- Incorporates N-technology for non-clog performance, sustained high efficiency and long-term energy/fuel savings.
- Hard-Iron™ (EN12513:2000) impeller and insert ring.
- Dry-running, high-pressure oil bath mechanical seal with highly abrasion resistant silicon carbide faces.
- Close-coupled centrifugal pump mounted to a diesel engine or electric motor for easy pumpend or engine/motor changeover in the field.
- Also available in a critically silenced unit which reduces noise levels to less than 70 dBA at 30'.
- Standard engine Yanmar 3TNV70 (IT4 Flex).

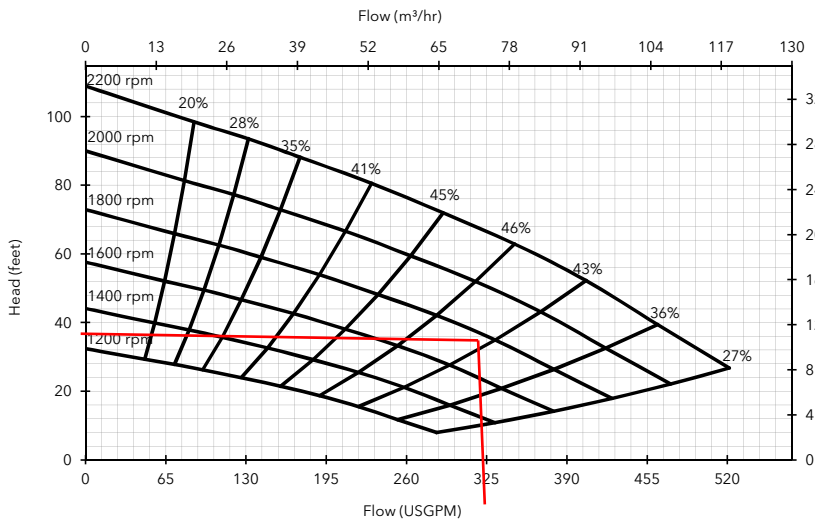
Specifications

Suction connection	4" 150# ANSI B16.5
Delivery connection	3" 150# ANSI B16.5
Max capacity	520 USGPM †
Max Impeller diameter	8.4"
Max operating temp	176°F*
Max working pressure	48 psi
Max suction pressure	41 psi
Max casing pressure	72 psi
Max operating speed	2200 rpm

* Please contact our office for applications in excess of 176°F.

† Larger diameter pipes may be required for maximum flows.

Performance Curve



Materials

Pump casing & suction cover	Cast iron BS1561:1997
Wearplates	Front - Hard Iron EN12513:2000 Rear - Cast Iron BS1561:1997 0
Pump Shaft	Carbon steel BS970:1991 817M40T
Impeller	Hard Iron EN12513:2000
Non-return Valve body	Cast iron BS1561:1997
Mechanical Seal	Silicon carbide face; Viton elastomers; Stainless steel body

Engine option 1

Yanmar, 3TNV70 (IT4 Flex), 15 HP @ 2200 rpm

Impeller diameter 8"

Pump speed 2200 rpm

Suction Lift Table

Total Suction Head (feet)	Total Delivery Head (feet)				
	20	52	69	79	92
	Output (USGPM)				
10	506	357	247	176	66
15	484	330	198	141	-
20	458	286	176	110	-
25	396	264	132	88	-

Fuel capacity: 30 US Gal

Max Fuel consumption @ 2200 rpm: 0.9 US Gal/hr

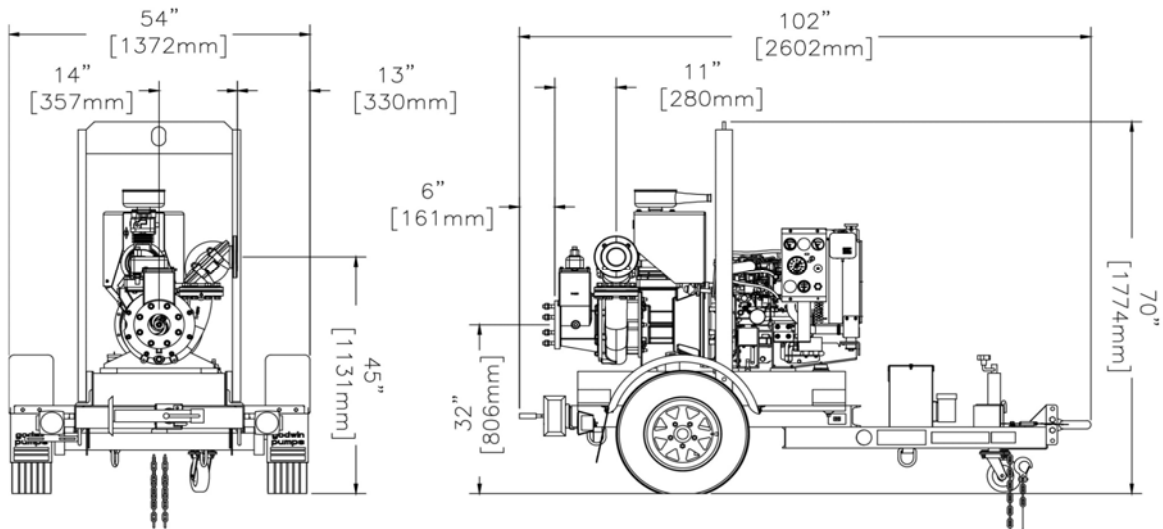
Max Fuel consumption @ 1400 rpm: 0.5 US Gal/hr

Weight (Dry): 1,720 lbs

Weight (Wet): 1,940 lbs

Dimensions: (L) 102" x (W) 54" x (H) 70"

Performance data provided in tables is based on water tests at sea level and 20°C ambient. All information is approximate and for general guidance only. Please contact the factory or office for further details.



84 Floodgate Road
Bridgeport, NJ 08014 USA
(856) 467-3636 . Fax (856) 467-4841
Email: sales@godwinpumps.com

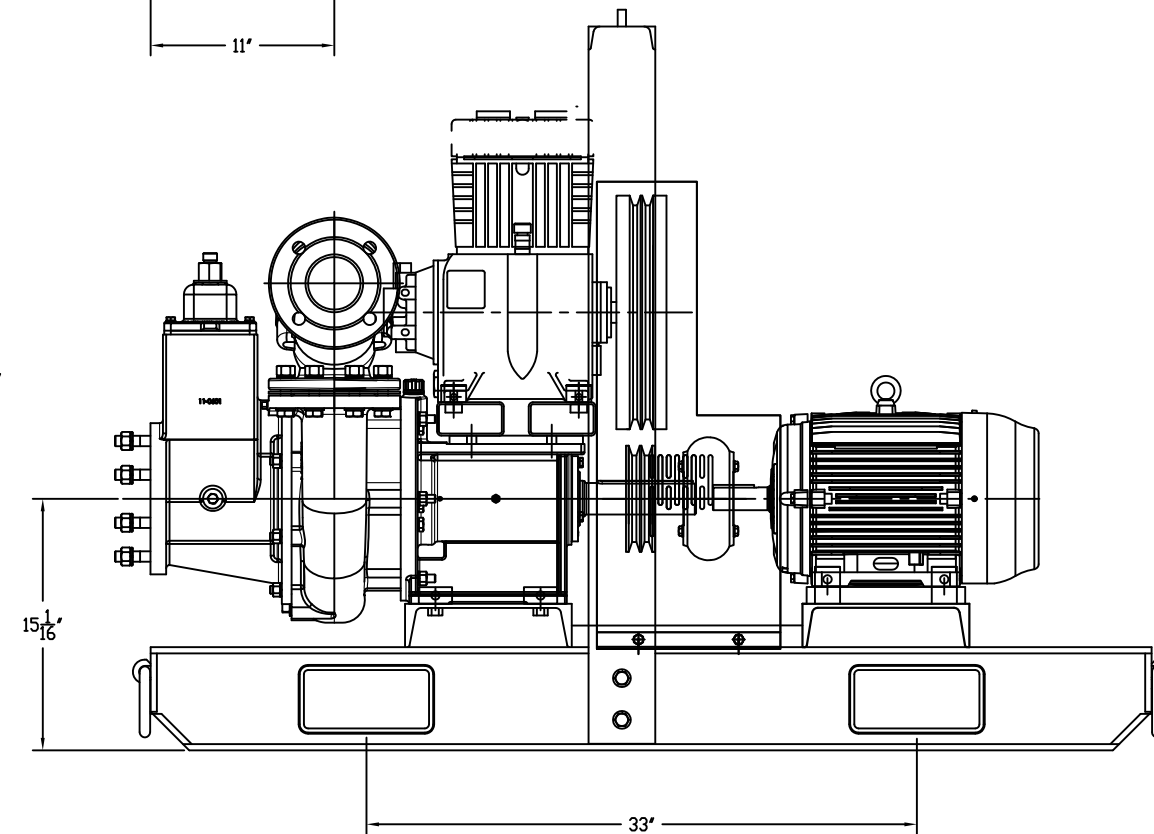
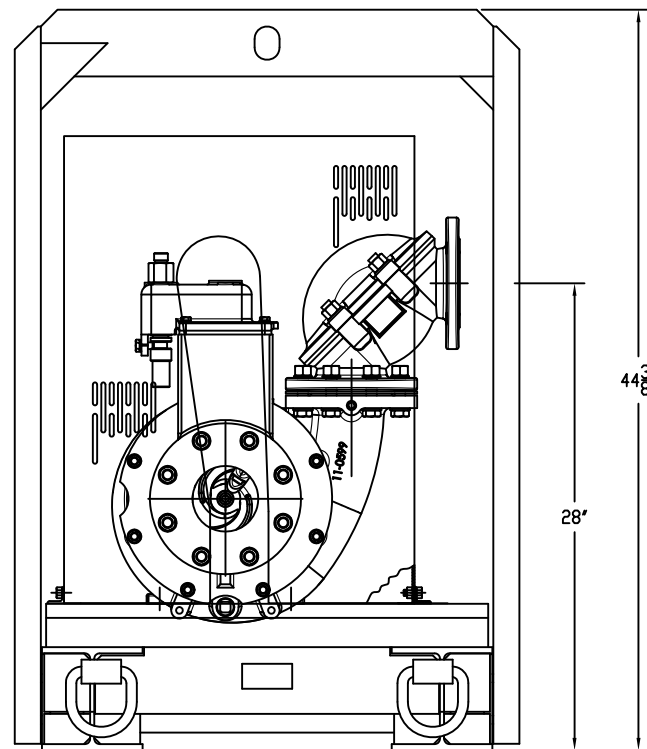
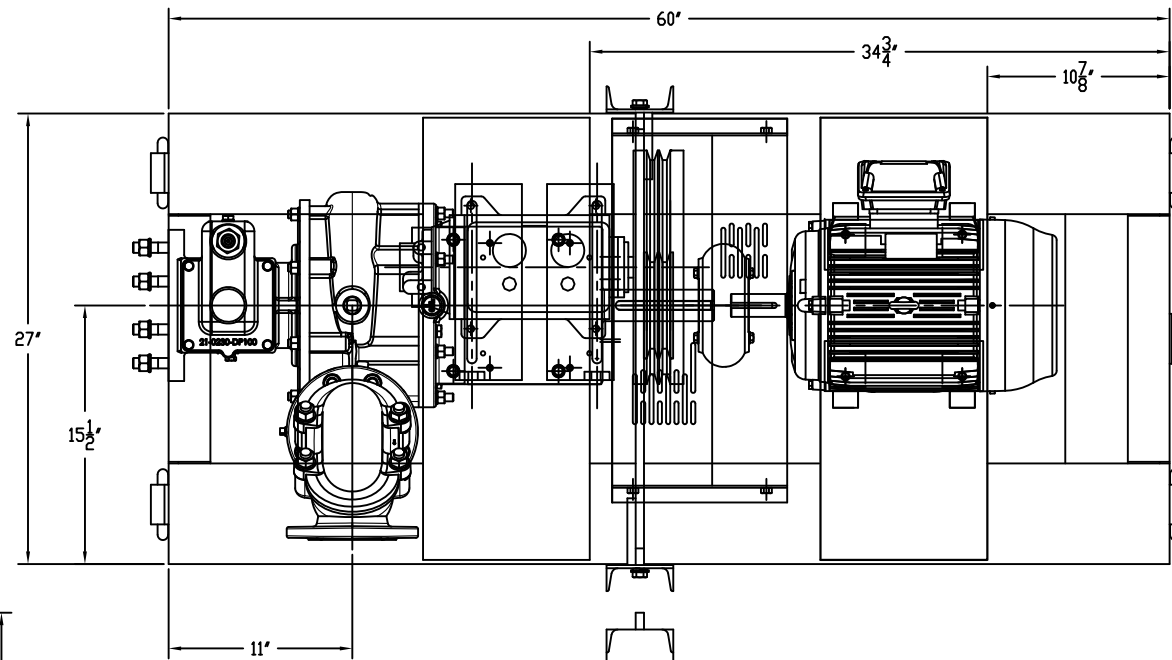
Reference number : 95-1808-3000
Date of issue : February 26, 2014
Issue : 7

www.godwinpumps.com

NOTES

1. DIMENSIONS IN INCHES
2. DO NOT SCALE DRAWING
3. DRAWING IS NOT FOR CONSTRUCTION
4. CONSULT FACTORY FOR CERTIFIED DIMENSIONS
5. SUCTION FLANGE: 3"/150# ANSI FF
6. DISCHARGE FLANGE: 3"/150# ANSI RF
7. APPROX. WEIGHT: 1018 LBS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
XXX	XXX	XXX	XXX	XXX



84 Floodgate Road, Bridgeport, NJ 08014, USA
(856) 467-3636 • Fax (856) 241-7323

TITLE
NC80 10HP 1800RPM PORTABLE
SKID N32-9394

SYMBOLS ETC. TO ANSI Y14 THIRD ANGLE PROJ. 	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE COATINGS TOLERANCES ARE: 2-PLACE DECIMALS ± .03 3-PLACE DECIMALS ± .010 ANGLES FRACTIONS 1/16	APPROVALS			DAY	MON.	YEAR
		DRAWN BY J.V.		X	X	00	
		APPROVED BY C. HERITAGE		X	X	X	
		ISSUED X		X	X	X	

S.O.#	
SIZE C	DWG NO. 100GPA0012854
SCALE 1/1	SHEET 1 OF 1

REV. A
 DWG NO. 100GPA0012854

A



The Godwin Dri-Prime 4" (100mm) CD100M automatic priming centrifugal pump is a highly maneuverable portable trash pump with flow capabilities to 750 gallons per minute (47 l/sec.), total dynamic heads to 115 feet (35 meters) and solids handling to 2" (50mm) in diameter. The unique Godwin venturi air evacuation system allows the CD100M to prime from dry conditions with suction lifts up to 28 feet (8.5 meters). Perfect in intermittent flow situations, the CD100M can run dry indefinitely without damage due to the oil bath mechanical seal design. For sewer bypass, general dewatering, and many other applications, the Godwin CD100M with 4" (100mm) hoses is a powerful, yet versatile and portable pumping system.

Features

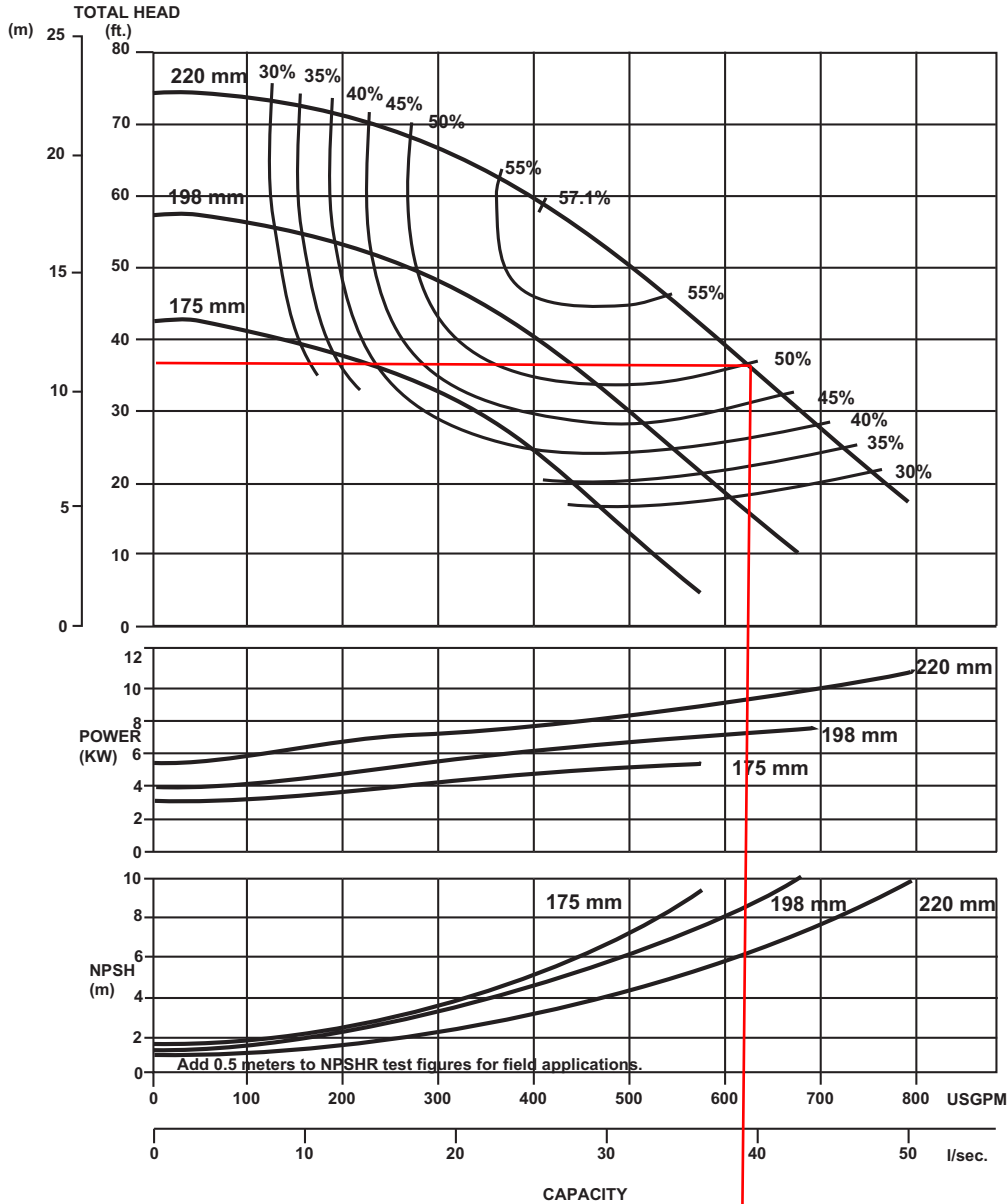
- Close coupled centrifugal pump with vacuum priming compressor mounted to a diesel engine. Also available in electric drive or as bare shaft pumpend.
- All cast iron construction with cast chromium steel impeller.
- Extensive application flexibility — will handle raw sewage, slurries and liquids with solids up to 2" (50mm) diameter.
- Recessed impeller version available handling solids in excess of 2-3/16" (56mm) diameter.
- Continuously operated "Godwin" air ejector priming device requiring no form of periodic adjustment or control.
- Dry running, high pressure oil bath, mechanical seal with abrasion resistant solid silicon carbide interfaces.
- Solids handling ball type Non Return Valve with renewable flexible rubber seat and quick release access feature.
- Compact unit mounted on skid base or two wheeled highway trailer both incorporating integral overnight running fuel tank.
- Simple maintenance – normally limited to checking engine and seal cavity oil levels.
- Standard engine – John Deere 3015D or Caterpillar 3014NA. Available with a variety of engines including Hatz, Perkins and Deutz.
- A variety of silenced sets are available.



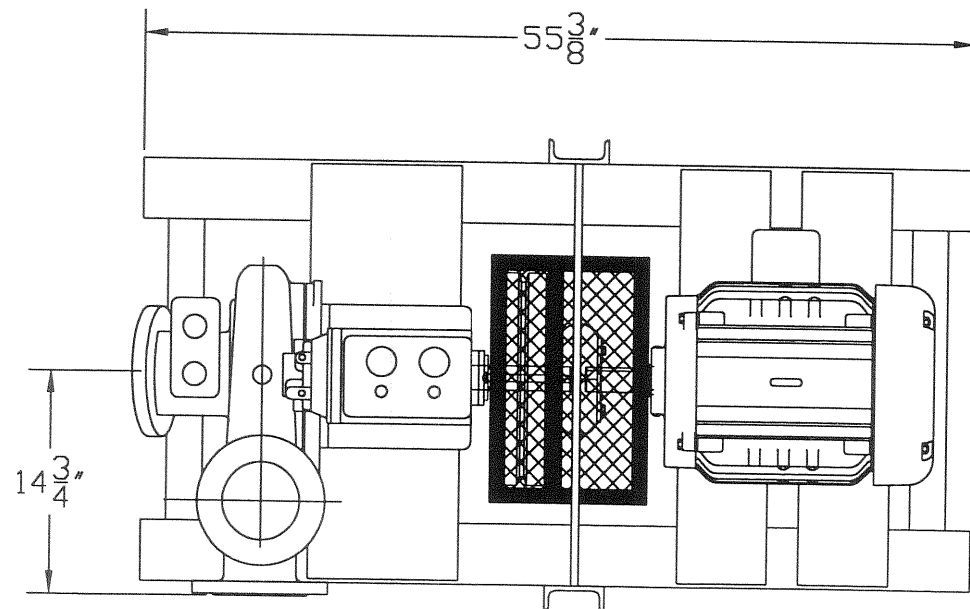
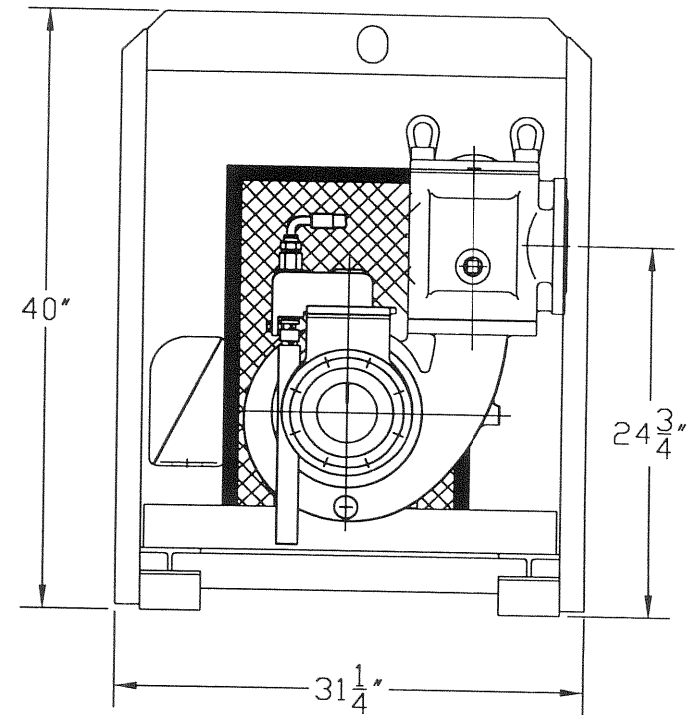
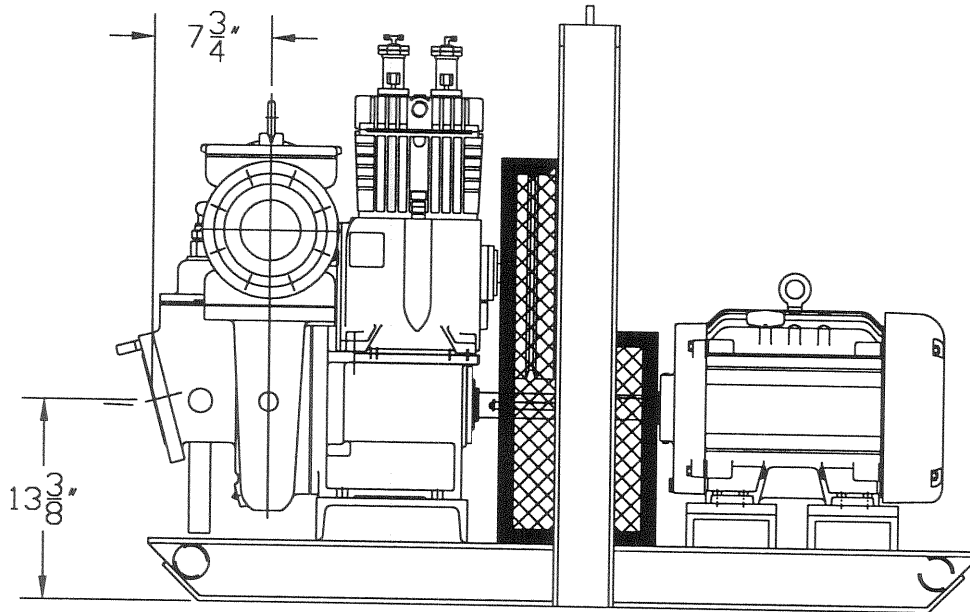
ENGINEERING CATALOG

CD100M Dri-Prime® Pump Engineering Data

Pump Curve CD100M Electric
Branch Sizes CD100M-ELEC.3
Speed 4" x 4" (100mm x 100mm)
 1750 rpm



- Notes:
1. Max. impeller diameter: 220 mm.
 2. Min. impeller diameter: 175 mm.
 3. Max. solids handling: 45 mm dia.
 4. Add 12% for V-Belt drives.
 5. Max. V-Belt speed: 2200 rpm.
 6. Where a compressor is fitted, add 2.6 kw for small size and add 8.25 kw for large size.



Notes:

1. Dimensions are in inches.
2. Do not scale drawing.
3. Drawing is not for construction.
Consult factory for certified dimensions.

godwin
pumps of America, Inc.

RENTAL * SALES * SERVICE
One Floodgate Road * Bridgeport, NJ 08014
Tel: (609) 467-3636 * (609) 467-4841

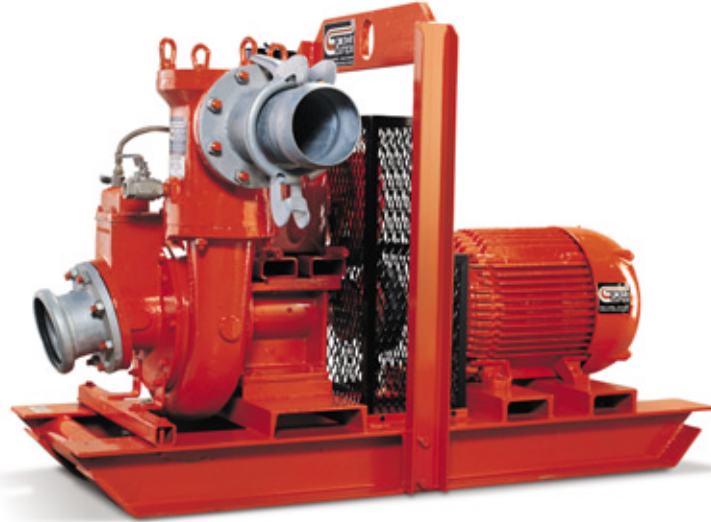
DATE	TITLE	SIZE
1/9/98	CD100 20HP ELECTRIC	A

© copyright 1998, Godwin Pumps of America



ENGINEERING CATALOG

Electric Drive Dri-Prime® Pumps Engineering Data



For maximum performance, choose an electric drive Godwin automatic self-priming Dri-Prime pump. Designed for long lasting durability, the electric drive Dri-Prime pump is ideally suited for both temporary pumping and permanent installations. Perfect for industrial and municipal applications, a permanently installed electric drive Dri-Prime pump will provide reliable, continuous pumping and reduced operating and maintenance costs. Or for temporary jobs where refueling is difficult, an electric drive Dri-Prime pump is the solution. Plus, electric drive Dri-Prime pumps can be customized using a wide range of speeds and impeller trims in the CD (solids-handling, medium head) or HL (high head) ranges of the Dri-Prime series.



Industrial Storm Water Sump – Permanent installation of two 6" (150mm) HL5M electric drive Dri-Prime pumps



API Separator Sludge Removal – Permanent installation of two 6" (150mm) CD150M electric drive Dri-Prime pumps



Wastewater Treatment Plant Bypass Project – Temporary installation of twelve 12" (300mm) DPC300 electric drive Dri-Prime pumps

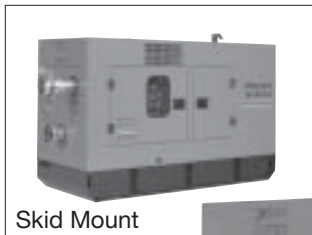


Industrial Wastewater Management – Permanent installation of two 3" (75mm) CD80M electric drive Dri-Prime pumps

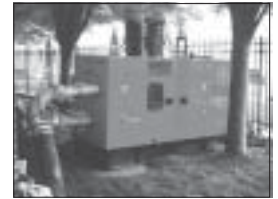
Critically Silenced Dri-Prime® Pumps

Pac
Machine
Company
Since 1977

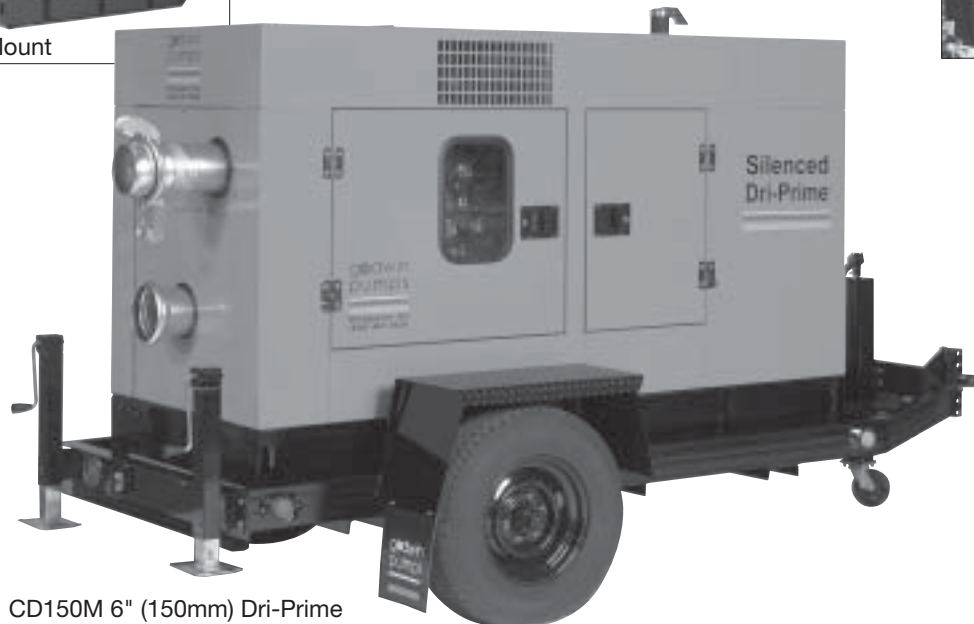
Critically
Silenced



Skid Mount



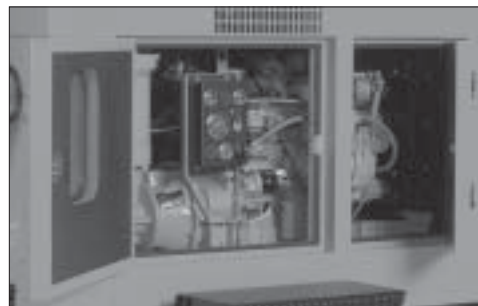
CD150M 6"
(150mm)
Dri-Prime for
Stormwater
Sewer Bypass



CD150M 6" (150mm) Dri-Prime
Trailer Mount

The Critically Silenced enclosure houses the versatile Dri-Prime CD range and HL range pumps in a specially designed, acoustically-silenced enclosure. The Critically Silenced unit is intended for use in any application where pumping is required and engine and other noise must be kept to a minimum. Sound levels are approximately 69 dBA at 30 feet (9 meters).

The Critically Silenced unit is engineered from start to finish for quiet operation. The enclosure consists of 14 gauge sheet metal lined with 1" and 2" (25mm and 50mm) layers of polydamp acoustical sound deadening material. We've designed the engine with a critical grade silenced muffler, silenced the priming exhaust, and isolated engine vibration to further reduce operating noise. Hinged, lockable doors provide convenient access to operating controls and service locations. For added versatility, the entire skid mounted unit can be unbolted and removed from the DOT highway trailer.



Hinged, lockable doors provide access to operating
controls and service locations.

godwin
pumps



MEMORANDUM

Date: July 6, 2018
To: Improvements Committee
From: Paul Siebensohn, Director of Field Operations
Subject: Review Reimbursements Requested by Developer

RECOMMENDED ACTION

Approve reimbursements in amounts not to exceed as noted with the condition that the developer provide invoices and certified payrolls for actual construction costs.

- a. Highway 16 Bore, Caltrans Encroachment Permit and Install of Twelve Inch (12") Recycled Water Line - **\$268,667.50.**
- b. Recycled Water Line Installation from Murieta Gardens II – 78 Lots to Cantova Lift Station - **recycled water line only – at \$105,135.50.**
- c. Recycled Water Line Installation from Legacy Lane to Lookout Hill (*still under review*).
- d. Murieta Inn/Murieta Gardens Recycled Water Main (*still under review*).

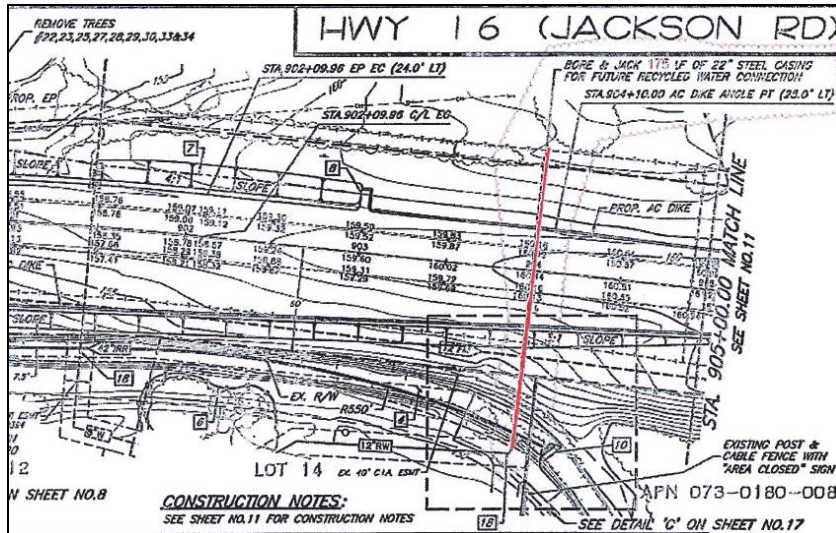
BACKGROUND

As part of the District's Preliminary Design Report to lay out what is needed for recycled water use and disposal, the Murieta Gardens Development and Operating Engineers (OE3) landscaping areas were cited as places of use for recycled water. With construction continuing at the Murieta Gardens, it is an opportune time to complete the required recycled water infrastructure that is needed to supply the Murieta Gardens and Operating Engineers. The developer provided costs for reimbursement of these installations (attached). They were forwarded to Coastland Engineering for their review. They are discussed in order as proposed above.

a. Highway 16 Bore, Caltrans Encroachment Permit

This bore is needed as a sleeve to install the pipeline that will be the backbone for the major connection point from the recycled water line that runs from the Wastewater Reclamation facility to Bass Lake in order to provide recycled water to the Murieta Gardens, OE3, Lookout Hill storage tank, and Stonehouse/Escuela Park sites. Early on it was agreed upon with the District that a bore would be needed under Highway 16 for the installation of this supply pipeline. Coastland reviewed the proposed reimbursement costs and provided the opinion that the costs for the work and "soft costs" for engineering, permitting, staking were in order with the work to be completed and they recommend that proceed with approval. The backup they provided showed the installation cost total at \$206,675 vs the \$210,000, and so total cost with a 15% contingency would be \$267,677.50.

As this bore runs under a Caltrans Highway, an Encroachment Permit is required by Caltrans. The developer's engineer has provided the District what is needed to submit this permit should the Board approve it. It is recommended that we do not submit this encroachment permit until the reimbursement is approved. It is unknown at this time if there are any further fees associated with this permit. *See edits on page 2 of attached.*

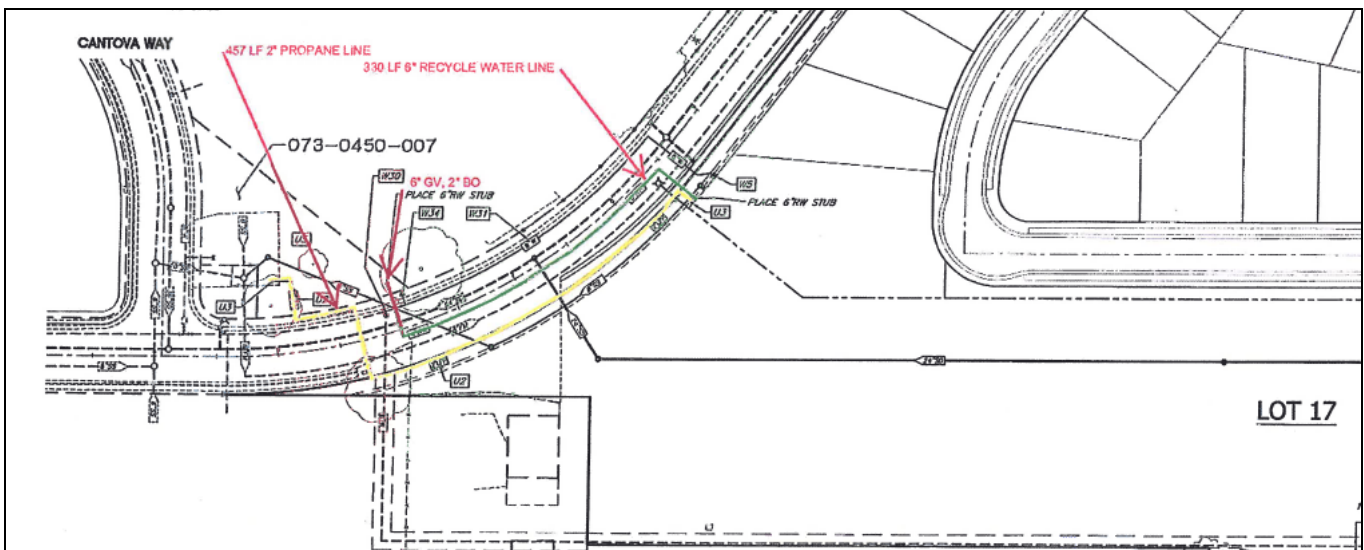


Section of construction plans which shows where the bore will be routed

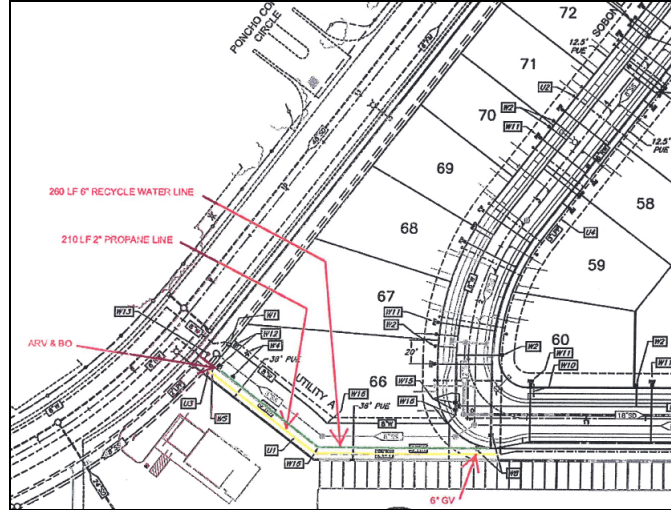
b. Recycled Water Line and LP Gas Line Installation from Murieta Gardens II – 78 Lots to Cantova Lift Station

This recycled water line would connect the recycled water line from Murieta Gardens over to the OE3 landscaping areas. Coastland reviewed the costs and recommends its approval. The reimbursement describes two (2) sections of the line, A – which runs under Murieta Drive to the Cantova sewer lift station and B – from the Murieta Gardens II’s Sobon Drive to Murieta Drive. The estimate also showed an additional air release valve (ARV) that is not on the plans or called for, which I removed. The total reimbursement cost including 15% contingency is \$99,970 after removing the line item costs for the LP gas line and additional ARV. I also have questions into the project engineer as to the costs as to the support of the unit price costs which I hope to have answered in time for the meeting. *See edits on pg.8 of attached.*

Section A



Section B



The liquid propane gas line is no longer being requested as we are not changing out the generator at this time and not necessarily with liquid propane.

c. Recycled Water Line Installation from Legacy Lane to Lookout Hill (*still under review*)

This item is still under review and will be on the agenda for the August Improvements Committee. It is a proposed reimbursement cost totaling \$410,956.

d. Murieta Inn/Murieta Gardens Recycled Water Main (*this item was not submitted with the previous item's attachments and will be reviewed at the August Improvements Committee*)

The Murieta Gardens was required to install recycled water infrastructure by the District with the development of their construction plans. No clear definition of reimbursement was provided when this was done. A general invoice was provided with an amount of \$173,606.98. This item has yet to be reviewed by Coastland. In the meantime, further backup information has been requested by the District. (*Invoice attached for reference.*)

RMCSO Improvements Committee

RE: District's Owner Encroachment Permit (CalTrans) for bore/casing Hwy 16 & District approval of Propane to Cantova Lift Station and Recycle Water to OE3

June 5th, 2018

Immediate 1 - Hwy 16 Bore

As we complete the drainage facilities for the Hwy 16 project and pave the south side of the west section of the project, we will be scheduling the bore for the District's Recycle facilities that need to cross Jackson Road. CalTrans requires an owners encroachment permit. This will be a District facility, therefore we need CSD's signature on the Permit.

Immediate 2 – OE3 Recycle line and 2" Propane to Cantova lift station

The Recycle line to the triangular Cantova OE3 parcel and the 2" propane service for the Cantova Lift Station estimate requires CSD's approval. This is a District facility. If you need "as built easements" we will have BWEG provide at cost or from the contingency. Utility "A" parcel is already designated for infrastructure.

Please approve these and provide purchase orders for this work. We can coordinate when we have the boring contractor schedule and issue the notice to proceed.

Future – 3 – Recycle Water line to Lookout Hill (2018 Estimate of cost)

We were asked to provide our engineer's estimate of the cost to extend the Recycle Water line from Murieta Drive @ Lone Pine to Lookout Hill. This line is necessary along with the rebuilding of the Lookout Hill tank. This estimate does not include the engineering and costs to tie-in to the force main at the bottom of the property behind the Fire Station, if that is the direction the District intends to pursue.

No action is necessary at this time.

BAKER-WILLIAMS ENGINEERING GROUP
 6020 Rutland Drive Suite 19
 Carmichael, Ca 95628
 (916)-331-4336 Fax (916)-331-4430

June 4, 2018

DRAFT

John M. Sullivan
 Cosumnes River Land, LLC
 P.O. Box 1230
 Rancho Murieta, CA 95683

Subject: Murieta Gardens- Additional Recycle Water Facilities Cost Estimate
 Bore Steel Casing Under HWY 16
 Our File No. 11-01-001

Dear John
 The following is the estimated cost to bore a steel casing for future Recycled Water facilities associated with the Murieta Gardens project.
 The cost include a 15% contingency and a 15% engineering, permitting, and staking soft cost.

BORE STEEL CASING UNDER HWY 16 FOR FUTURE RECYCLE WATER LINE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	BORE CASING UNDER HWY 16	175 LF	\$1,200.00	\$210,000.00
			SUB TOTAL	\$210,000.00
			Engineering, Permitting, and Staking Soft Costs at 15%	\$31,500.00
			Contingencies at 15%	\$31,500.00
			TOTAL ITEM	\$273,000.00

RFC#25 - 45'
 additional

\$153,530 + 53,145=
 \$206,675
 \$31,001.25
 \$31,001.25
 \$268,677.50 total

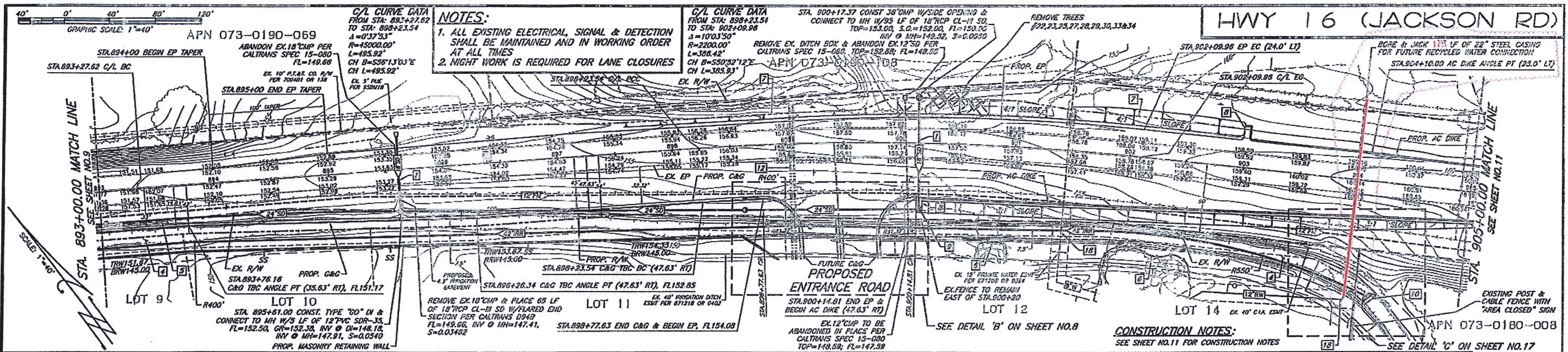
- Note:
 1| This estimate is based on plans not yet constructed subject to change from field condition.
 2| The unit prices shown are based on the contractor bids and from engineering opinion of cost

If you have any questions of need additional information, please call.

BAKER-WILLIAMS ENGINEERING GROUP

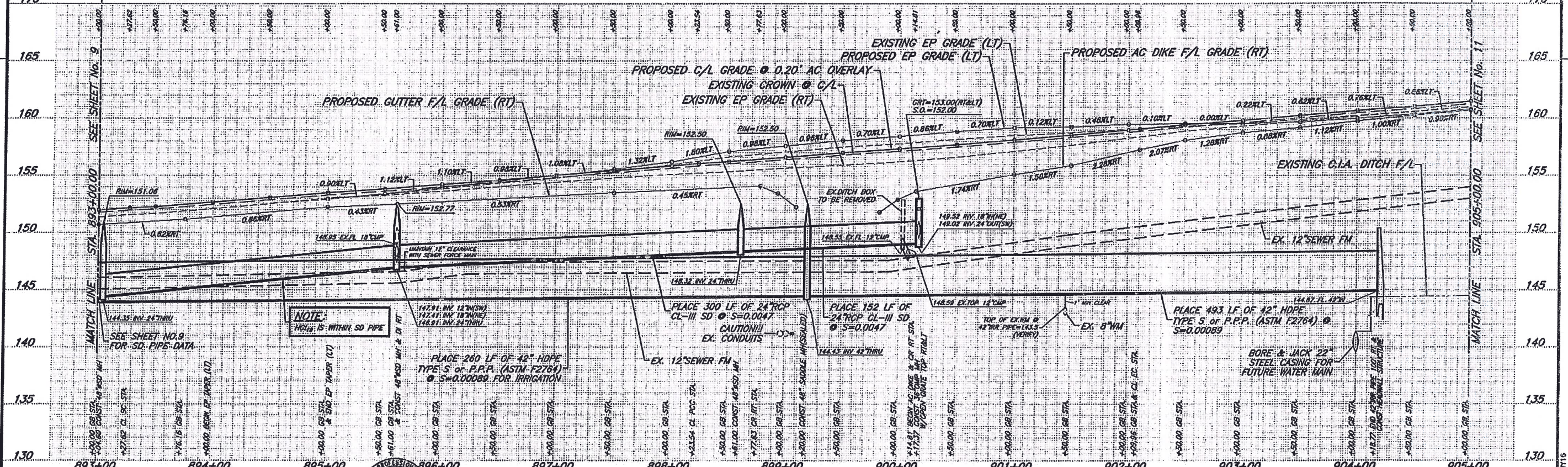
Michael Robertson

HWY 16 (JACKSON RD)



CONSTRUCTION NOTES:
SEE SHEET NO.11 FOR CONSTRUCTION NOTES
SEE DETAIL 'C' ON SHEET NO.17

PROPOSED EP LT GRADES	EXISTING EP LT GRADES	EXISTING C/L GRADES	EXISTING EP RT GRADES	PROPOSED FL RT GRADES
152.95	152.56	151.98	152.24	152.94
153.49	152.82	151.97	152.51	152.45
153.98	153.35	152.07	152.27	152.29
154.51	153.82	152.07	153.02	152.45
155.00	154.35	152.07	153.27	152.45
155.54	154.82	152.07	153.53	152.71
156.20	155.34	152.07	154.02	152.87
156.80	155.84	152.07	154.42	153.24
157.10	156.20	152.07	154.79	153.50
157.29	156.63	152.07	155.11	153.73
158.07	157.07	152.07	155.22	153.86
158.42	157.20	152.07	155.34	154.08
158.55	158.17	152.07	155.05	154.82
158.80	158.51	152.07	155.81	155.23
159.49	158.70	152.07	156.02	155.23
159.64	159.12	152.07	156.22	155.17
159.65	159.29	152.07	156.44	155.23
159.96	159.31	152.07	156.22	155.17
160.34	159.87	152.07	160.16	156.23
160.57	159.87	152.07	160.25	162.33
160.80	160.19	152.07	160.25	160.66
160.92	160.57	152.07	160.39	160.98
161.25	160.92	152.07	160.39	161.25
161.56	161.25	152.07	160.39	161.56
161.87	161.56	152.07	160.39	161.87
162.18	161.87	152.07	160.39	162.18
162.49	162.18	152.07	160.39	162.49
162.80	162.49	152.07	160.39	162.80
163.11	162.80	152.07	160.39	163.11
163.42	163.11	152.07	160.39	163.42
163.73	163.42	152.07	160.39	163.73
164.04	163.73	152.07	160.39	164.04
164.35	164.04	152.07	160.39	164.35
164.66	164.35	152.07	160.39	164.66
164.97	164.66	152.07	160.39	164.97
165.28	164.97	152.07	160.39	165.28
165.59	165.28	152.07	160.39	165.59
165.90	165.59	152.07	160.39	165.90
166.21	165.90	152.07	160.39	166.21
166.52	166.21	152.07	160.39	166.52
166.83	166.52	152.07	160.39	166.83
167.14	166.83	152.07	160.39	167.14
167.45	167.14	152.07	160.39	167.45
167.76	167.45	152.07	160.39	167.76
168.07	167.76	152.07	160.39	168.07
168.38	168.07	152.07	160.39	168.38
168.69	168.38	152.07	160.39	168.69
169.00	168.69	152.07	160.39	169.00
169.31	169.00	152.07	160.39	169.31
169.62	169.31	152.07	160.39	169.62
169.93	169.62	152.07	160.39	169.93
170.24	170.00	152.07	160.39	170.24



BENCHMARK 13-85 elev. 173.55 3" BRONZE DISK STRIPED SACRAMENTO CO. DEPT OF PUBLIC WORKS BLM 13-85 UMBREGER-PETERS 1978" LOCATED IN TOP OF EAST CONCRETE CURBING EAST END OF SOUTH ABUTMENT OF CONCRETE BRIDGE ON SCOTT RD. @ CRENS CK. & APPROXIMATE 0.10 MILE NORTH OF LATROBE RD. SEE LL 5-122 LEVELS RUN FROM C&G B.M. 12-33 MVD 88 DATUM. MICHAEL T. ROBERTSON RCE 39875	PLOT DATE: 08-17-13 04-17-18 07-15-18 09-24-18 03-31-17 01-25-17 03-12-17	SCALE horiz: 1"=40' vert: 1"=6' 09/2014 date	drafted by: STAFF designed by: M.T.R. checked by: M.T.R. 502 field book	BW BAKER-WILLIAMS ENGINEERING GROUP Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services 6020 Rutland Drive, Suite 19 - Carmichael, CA. 95608 (916) 331-4336 - fax (916) 331-4430 - cll:ce@bwilliams.com	HWY 16 DRAINAGE & STREET IMPROVEMENTS MURIETA GARDENS - HWY 16 RANCHO MURIETA SACRAMENTO COUNTY CALIFORNIA	10 SHEETS 13-11-058 JOB NUMBER
--	---	--	--	---	--	--

John Sullivan

From: Mike Robertson <miker@bwengineers.com>
Sent: Tuesday, June 05, 2018 7:54 AM
To: John Sullivan
Subject: Hwy 16, Bore Steel Casing
Attachments: Encroachment Permit Application.hwy 16 Water Casing Crossing RMCS D 6-5-18 scanned .pdf

Copy

John
The bore of the Recycle Water Line steel casing will require an the RMCS D to sign an encroachment permit to Own and Operate the casing and water line
Attached is the completed form
Please present to the RMCS D to rout for signature.

Michael T Robertson
President
Baker-Williams Engineering Group
6020 Rutland Dr, Suite 19
Carmichael, Ca 95608
O 916-331-4336
C 916-768-9312

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
STANDARD ENCROACHMENT PERMIT APPLICATION
 TR-0100 (REV. 03/2015)

Please type or print clearly your answers. Complete ALL fields, write "N/A" if not applicable.
 This application is not complete until all requirements have been approved.

Permission is requested to encroach on the State Highway right-of-way as follows:

FOR CALTRANS USE	
PERMIT NO.	
DIST/CO/RTE/PM	
SIMPLEX STAMP	
DATE OF SIMPLEX STAMP	

1. COUNTY Sacramento		2. ROUTE 16		3. POSTMILE 19.3	
4. ADDRESS OR STREET NAME Highway 16			5. CITY Rancho Murieta		
6. CROSS STREET (Distance and direction from project site) 1/4 Mile East of Murieta Drive			7. PORTION OF RIGHT-OF-WAY Bore Under ROW		
8. WORK TO BE PERFORMED BY <input checked="" type="checkbox"/> OWN FORCES <input type="checkbox"/> CONTRACTOR		9. ESTIMATED START DATE July 30, 2018		10. ESTIMATED COMPLETION DATE August 6, 2018	
11. EXCAVATION	MAX. DEPTH N/A	AVG. DEPTH N/A	AVG. WIDTH N/A	LENGTH N/A	SURFACE TYPE N/A
12. ESTIMATED COST WITHIN STATE HIGHWAY RIGHT-OF-WAY			FUNDING SOURCE(S) <input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> LOCAL <input checked="" type="checkbox"/> PRIVATE		
13. PIPES	PRODUCT TYPE Recycled Water	DIAMETER 8"	VOLTAGE / PSIG N/A		14. CALTRANS' PROJECT CODE (ID) N/A
15. <input type="checkbox"/> Double Permit Parent Permit Number #03166RC0849 Applicant's Reference Number / Utility Work Order Number Murieta Gardens					
16. Have your plans been reviewed by another Caltrans branch? <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (if "YES") Who? Permits					

17. Completely describe work to be done within STATE Highway right-of-way:

Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, etc.

This permit is for Rancho Murieta Community Service District to install, own, operate and maintain an 8" recycle water main in the 22" steel casing being bored at station 904+00

17

18. Is a City, County or other public agency involved in the approval of this project?

YES (If "YES", check type of project AND attach environmental documentation and conditions of approval)
 COMMERCIAL DEVELOPMENT BUILDING GRADING OTHER **Recycle Water line**

CATEGORICALLY EXEMPT NEGATIVE DECLARATION ENVIRONMENTAL IMPACT REPORT OTHER _____

NO (If "NO", please check the category below which best describes the project AND answer questions A - K on page 2)

DRIVEWAY OR ROAD APPROACH, RECONSTRUCTION, MAINTENANCE OR RESURFACING FENCE
 PUBLIC UTILITY MODIFICATIONS, EXTENSIONS, HOOKUPS MAILBOX
 FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS EROSION CONTROL
 OTHER _____ LANDSCAPING

PERMIT NO. _____

The following questions must be completed when a City, County or other public agency IS NOT involved in the approval of this project.

Your answers to these questions will assist Departmental staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within State Highway right-of-way and to determine which type of environmental studies may be required to approve your application for an encroachment permit.

It is the applicant's responsibility for the production of all required environmental documentation and supporting studies and in some cases this may be costly and time consuming. If possible, attach photographs of the location of the proposed project. Please answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.)

A. Will any existing vegetation and/or landscaping within State Highway right-of-way be disturbed?

B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the project or State Highway right-of-way?

C. Is the proposed project located within five miles of the coast line?

D. Will the proposed project generate construction noise levels greater than 86 dBA (e.g. jack-hammering, pile driving)?

E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?

F. Are there any recreational trails or paths within the limits of the proposed project or State Highway right-of-way?

G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?

H. Will the proposed project impact access to any businesses or residences?

I. Will the proposed project impact any existing public utilities or public services?

J. Will the proposed project impact existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?

K. Will new lighting be constructed within or adjacent to State Highway right-of-way?

19. Will this project cause a substantial change in the significance of a historical resource (45 years or older), or cultural resource? YES NO
(If "YES", provide a description)

20. Is this project on an existing State Highway or street where the activity involves removal of a scenic resource including a significant tree or stand of trees, a rock outcropping or a historic building? YES NO (If "YES", provide a description)

21. Is work being done on the applicant's property? YES NO (If "YES", attach 6 complete sets of site and grading plans.)

22. Will the proposed project require the disturbance of soil? YES NO
If "YES", estimate the area within State Highway right-of-way in square feet AND acres: 0 (ft²) AND 0 (acres)
estimate the area outside of State Highway right-of-way in square feet AND acres: 1000 (ft²) AND 0.02 (acres)

23. Will the proposed project require dewatering? YES NO
If "YES", estimate total gallons AND gallons/month. _____ (gallons) AND _____ (gallons/month)
SOURCE: STORM WATER NON-STORM WATER
(*See Caltrans SWMP for definitions of non-storm water discharge: <http://www.dot.ca.gov/hq/env/stormwater/index.htm>)

24. How will any storm water or ground water be disposed of from within or near the limits of the proposed project?
 Storm Drain System Combined Sewer / Storm System Storm Water Retention Basin
 Other (explain): N/A

PERMIT NO. _____

PLEASE READ THE FOLLOWING CLAUSES PRIOR TO SIGNING THIS ENCROACHMENT PERMIT APPLICATION.

The applicant, understands and herein agrees that an encroachment permit can be denied, and/or a bond required for non-payment of prior or present encroachment permit fees. Encroachment Permit fees may still be due when an application is withdrawn or denied, and that a denial may be appealed, in accordance with the California Streets and Highways Code, Section 671.5. All work shall be done in accordance with the California Department of Transportation's (Department) rules and regulations subject to inspection and approval.

The applicant, understands and herein agrees to the general provisions, special provisions and conditions of the encroachment permit, and to indemnify and hold harmless the State, its officers, directors, agents, employees and each of them (Indemnitees) from and against any and all claims, demands, causes of action, damages, costs, expenses, actual attorneys' fees, judgments, losses and liabilities of every kind and nature whatsoever (Claims) arising out of or in connection with the issuance and/or use of this encroachment permit and the placement and subsequent operation and maintenance of said encroachment for: 1) bodily injury and/or death to persons including but not limited to the Applicant, the State and its officers, directors, agents and employees, the Indemnitees, and the public; and 2) damage to property of anyone. Except as provided by law, the indemnification provisions stated above shall apply regardless of the existence or degree of fault of indemnitees. The Applicant, however, shall not be obligated to indemnify Indemnitees for Claims arising from the sole negligence and willful misconduct of State, its officers, directors, agents or employees.

An encroachment permit is not a property right and does not transfer with the property to a new owner.

COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990: All work within State Highway right-of-way shall be conducted in compliance with all applicable Federal, State and Local Access laws, regulations and guidelines including but not limited to the Americans with Disabilities Act Accessibility Guidelines (ADAAG), the Public Rights-of-Way Guidelines (PROWG), the Department's current Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects", the Department's Encroachment Permits Manual and encroachment permit.

DISCHARGES OF STORM WATER AND NON-STORM WATER: All work within State Highway right-of-way shall be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permit issued to the Department, to govern the discharge of storm water and non-storm water from its properties. Work shall also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits Manual and encroachment permit. Compliance with the Department's NPDES permit requires amongst other things, the preparation and submission of a Storm Water Pollution Protection Plan (SWPPP), or a Water Pollution Control Program (WPCP), and the approval of same by the appropriate reviewing authority prior to the start of any work. Information on the requirements may also be reviewed on the Department's Construction Website at:

<http://www.dot.ca.gov/hq/construc/stormwater>

25. NAME OF APPLICANT OR ORGANIZATION Rancho Murieta Community Services District, Mark Martin			
ADDRESS OF APPLICANT OR ORGANIZATION WHERE PERMIT IS TO BE MAILED (Include City and Zip Code) 15160 Jackson Road, Rancho Murieta CA 95683			
E-MAIL ADDRESS MMartin@ranchomurieta.acsd.com	PHONE NUMBER 916-354-3700	FAX NUMBER	
26. NAME OF AUTHORIZED AGENT / ENGINEER (A "Letter of authorization" is required if different from #25)		IS A LETTER OF AUTHORIZATION ATTACHED? <input type="checkbox"/> YES <input type="checkbox"/> NO	
ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City and Zip Code)			
E-MAIL ADDRESS	PHONE NUMBER	FAX NUMBER	
27. NAME OF BILLING CONTACT (Same as #25 <input checked="" type="checkbox"/> Same as #26 <input type="checkbox"/>)			
BILLING ADDRESS WHERE INVOICE(S) IS/ARE TO BE MAILED (Include City and Zip Code)			
E-MAIL ADDRESS	PHONE NUMBER	FAX NUMBER	
28. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT	29. PRINT OR TYPE NAME Mark Martin	30. TITLE General Manager	31. DATE 06-05-2018

BAKER-WILLIAMS ENGINEERING GROUP

6020 Rutland Drive Suite 19
 Carmichael, Ca 95628
 (916)-331-4336 Fax (916)-331-4430

June 4, 2018

DRAFT

John M. Sullivan
 Cosumnes River Land, LLC
 P.O. Box 1230
 Rancho Murieta, CA 95683

Subject: Murieta Gardens- Additional Recycle Water Facilities Cost Estimate
 Recycle Water Line to Cantova OE3 Parcel
 Our File No. 11-01-001

Dear John

The following is the estimated cost to construct future Recycled Water Line to Cantova OE3 Parcel.
 The cost include a 15% contingency and a 15% engineering, permitting, and staking soft cost.

Plans only call for one ARV and that's on item B

Not being approved

\$56,020

\$20,880

\$76,900
 \$11,535
 \$11,535
 \$99,970

A RECYCLE WATER LINE TO CANTOVA OE3 PARCEL PER INFRASTRUCTURE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	6" Recycled Water line	330 LF	\$126.50	\$41,745.00
2	6" Gate Valve	1 EA	\$2,050.00	\$2,050.00
3	Recycled Water Blow Off Valve	1 EA	\$1,500.00	\$1,500.00
4	1" Recycle Water Air Valve	1 EA	\$3,975.00	\$3,975.00
5	Patch and Pave Trench	1,100 SF	\$9.75	\$10,725.00
6	2" Propane in existing street, trench, backfill, AC repair	1 JOB	\$55,000.00	\$55,000.00
SUB TOTAL A				\$114,995.00
B RECYCLE WATER LINE FROM SOBON LANE TO MURIETA DRIVE PER MURIETA GARDENS II				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	6" Recycled Water line	260 LF	\$41.50	\$10,790.00
2	6" Gate Valve	1 EA	\$1,980.00	\$1,980.00
3	Recycled Water Blow Off Valve	1 EA	\$3,310.00	\$3,310.00
4	1" Recycle Water Air Valve	1 EA	\$4,800.00	\$4,800.00
5	2" Propane, new construction, trench, backfill etc	210 LF	\$35.00	\$7,350.00
SUB TOTAL B				\$28,230.00
SUB TOTAL A & B				\$143,225.00
Engineering, Permitting, and Staking Soft Costs at 15%				\$21,483.75
Contingencies at 15%				\$21,483.75
TOTAL ITEM A & B				\$186,192.50

Note:

- This estimate is based on plans not yet constructed subject to change from field condition.
- The unit prices shown are based on the contractor bids and from engineering opinion of cost

If you have any questions of need additional information, please call.

BAKER-WILLIAMS ENGINEERING GROUP

Michael Robertson

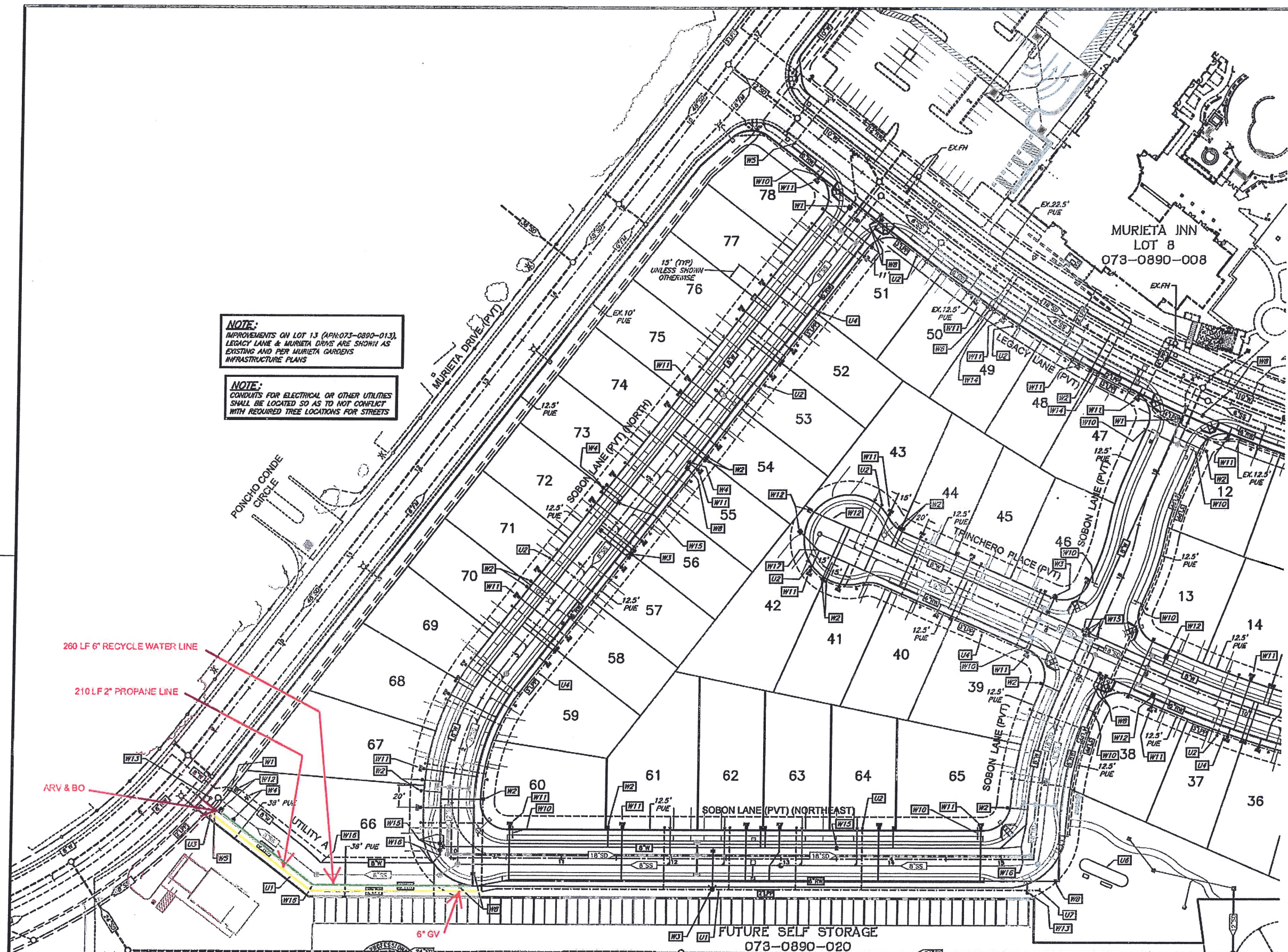
- WATER CONSTRUCTION NOTES:**
- W1 REMOVE EX. BLOW OFF & CONNECT TO EX. 8" WM.
 - W2 PLACE 1" METERED WATER SERVICE (TYPICAL).
 - W3 INSTALL FIRE HYDRANT PER R.M.C.S.D. STD'S (3' CLEAR OF TOP BACK OF CURB, TYPICAL).
 - W4 PLACE 1"ARK.
 - W5 REMOVE EX. FLANGE & CONNECT TO EX. 6" RW PER RMCSO RECYCLED WATER STANDARDS.
 - W6 RELOCATE EX. 1" METERED WATER SERVICE.
 - W7 ABANDON EX. 8" WM.
 - W8 PLACE 6" GATE VALVE ON RECYCLED WATER MAIN.
 - W9 ABANDON EX. WATER SERVICE AT MAIN PER RMCSO REQUIREMENTS.
 - W10 PLACE 4" PVC SCH-40 SLEEVES SEE DETAIL SHT. 12.
 - W11 PLACE 1" RECYCLED WATER SERVICE W/METER PER RMCSO RECYCLED WATER STANDARDS (TYP). PLACE 15' FROM P/L UNLESS SHOWN OTHERWISE.
 - W12 PLACE 2" BLOW OFF.
 - W13 PLACE 1" RECYCLED IRRIGATION SERVICE.
 - W14 ADJUST EX. WATER SERVICE METER BOX TO GRADE.
 - W15 PLACE 8" GATE VALVE ON WATER MAIN.
 - W16 PLACE 45° ELBOW.
 - W17 PLACE 22.5° ELBOW.

IRRIGATION SLEEVE NOTE:
 PLACE A 4" PVC SCH-40 SLEEVE UNDER DETACHED SIDEWALK AT EACH DRIVEWAY SIDE AND AT LOCATIONS SHOWN. SEE DETAIL SHEET 12.

- UTILITY CONSTRUCTION NOTES:**
- U1 2" LIQUID PROPANE (LPP) MAIN LINE, PER CURRENT EDITION OF NFPA 58 AND CBC.
 - U2 INSTALL & STUB 1" LPP SERVICE (TYPICAL).
 - U3 CONNECT TO EXISTING PROPANE LINE, RECONNECT & PLACE NEW METER FOR SERVICE AS NECESSARY.
 - U4 3" LIQUID PROPANE (LPP) MAIN LINE, PER CURRENT EDITION OF NFPA 58 AND CBC (BY OTHERS).
 - U5 INLINE LPP ISOLATION VALVE.
 - U6 PROPOSED PROPANE TANK (BY OTHERS).
 - U7 PROPERLY CAP END OF LPP LINE OR SERVICE FOR FUTURE EXTENSION. PLACE A 4"x4" POST MARKED "LPP".

NOTE:
 IMPROVEMENTS ON LOT 13 (APN:073-0890-013), LEGACY LANE & MURIETA DRVS ARE SHOWN AS EXISTING AND PER MURIETA GARDENS INFRASTRUCTURE PLANS

NOTE:
 CONDUITS FOR ELECTRICAL OR OTHER UTILITIES SHALL BE LOCATED SO AS TO NOT CONFLICT WITH REQUIRED TREE LOCATIONS FOR STREETS



SEE SHEET NO. 14

NO.	DESCRIPTION	DATE	BY	REVISION

benchmark 1B-85 elev. 173.55
 (SEE SHEET NO. 1)

PROFESSIONAL SEAL
 No. 39875
 Exp. 12-31-19
 CIVIL
 MICHAEL T. ROBERTSON RCE 39875

PREVIOUS PLOT DATES
 05-02-17
 06-02-17
 07-31-17

SCALE
 horiz 1"=40'
 vert N/A

8/14/17
 date

502
 field book

BW BAKER-WILLIAMS ENGINEERING GROUP
 Engineering / Surveying / Land Planning / Entitlement Processing / GPS Services
 6020 Rutland Drive, Suite 19 - Carmichael, CA. 95608
 (916) 381-4330 - fax (916) 381-4430 - office@bwengr.com

WATER & UTILITY PLAN
MURIETA GARDENS II
 RANCHO MURIETA, SACRAMENTO COUNTY, CALIFORNIA

SHEET 13 OF 22 SHEETS
 13-11-062
 JOB NUMBER

BAKER-WILLIAMS ENGINEERING GROUP

6020 Rutland Drive Suite 19
Carmichael, Ca 95628
(916)-331-4336 Fax (916)-331-4430

*on
Hold*

June 4, 2018

DRAFT

John M. Sullivan
Cosumnes River Land, LLC
P.O. Box 1230
Rancho Murieta, CA 95683

Subject: Murieta Gardens- Additional Recycle Water Facilities Cost Estimate
Recycle Water Line Along Lonepine Dr. from Murieta Dr. to Lookout Hill
Our File No. 11-01-001

Dear John,
The following is the estimated cost to construct future Recycled Water line along Longpine Dr. from Murieta Dr. to Lookout Hill.
The cost include a 15% contingency and a 15% engineering, permitting, and staking soft cost.

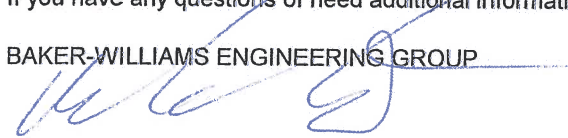
RECYCLE WATER LINE ALONG LONGPINE DR. FROM MURIETA DRIVE TO LOOKOUT HILL - FUTURE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	12" Recycled Water line in pavement	700 LF	\$150.00	\$105,000.00
2	12" Recycled Water line off pavement	1,200 LF	\$100.00	\$120,000.00
3	12" Gate Valve	3 EA	\$2,500.00	\$7,500.00
4	Recycled Water Blow Off Valve	2 EA	\$3,310.00	\$6,620.00
5	1" Recycle Water Air Valve	2 EA	\$4,000.00	\$8,000.00
6	Patch and Pave Trench	2,100 SF	\$10.00	\$21,000.00
7	Bore 22" steel casing under 4-60" culverts	40 LF	\$1,200.00	\$48,000.00
SUB TOTAL				\$316,120.00
Engineering, Permitting, and Staking Soft Costs at 15%				\$47,418.00
Contingencies at 15%				\$47,418.00
TOTAL ITEM				\$410,956.00

Note:

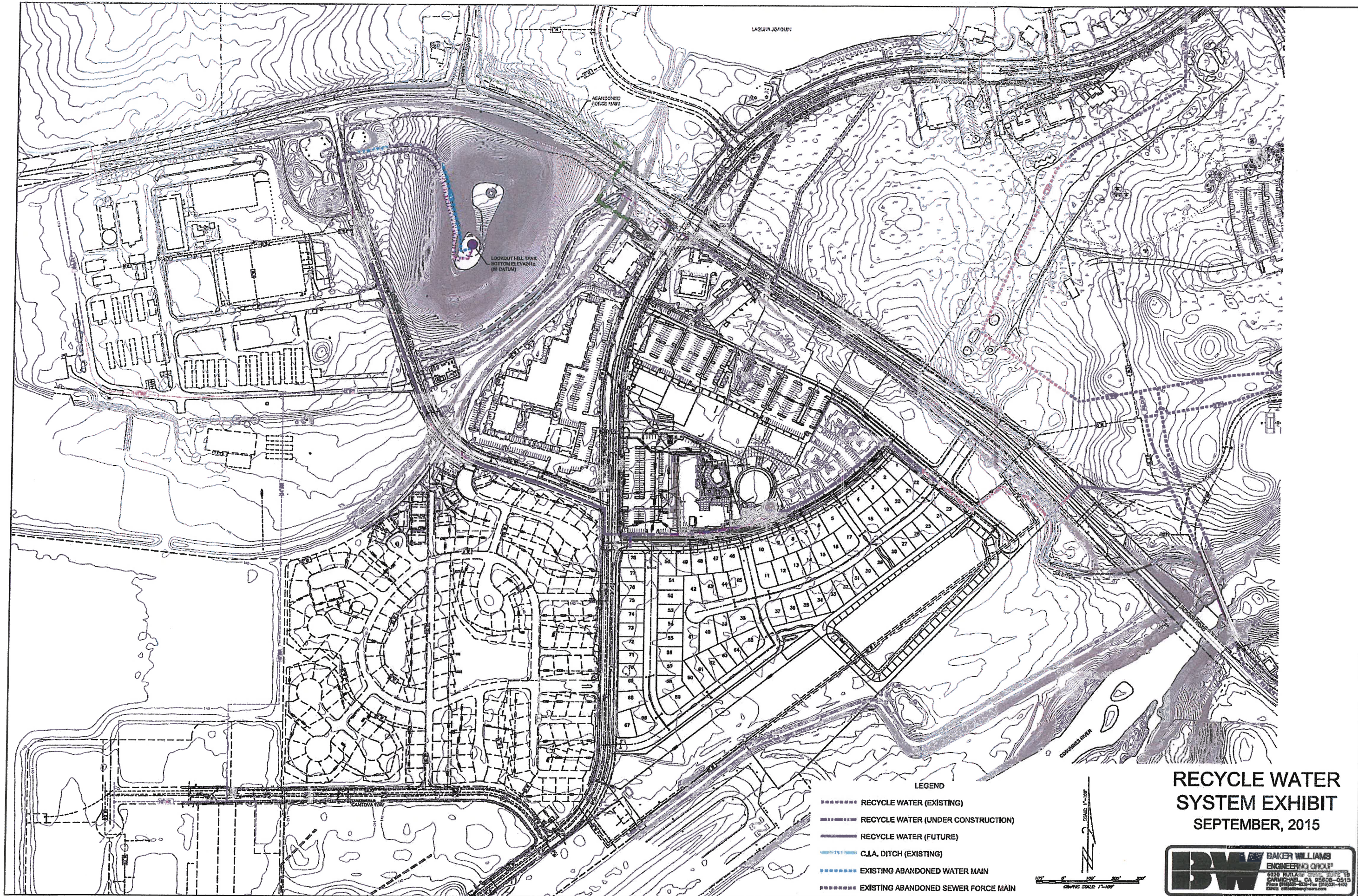
- 1) This estimate is based on plans not yet constructed subject to change from field condition.
- 2) The unit prices shown are based on the contractor bids and from engineering opinion of cost

If you have any questions or need additional information, please call.

BAKER-WILLIAMS ENGINEERING GROUP



Michael Robertson



RECYCLE WATER SYSTEM EXHIBIT
SEPTEMBER, 2015

BW **BAKER WILLIAMS ENGINEERING GROUP**
 6020 RUTLAND STREET, SUITE 100
 SAN ANTONIO, TX 78249-3519
 Phone (214) 351-8200 Fax (214) 351-4443
 www.bakerwilliams.com

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV. 03/2015)

Please type or print clearly your answers. Complete ALL fields, write "N/A" if not applicable.

This application is not complete until all requirements have been approved.

Permission is requested to encroach on the State Highway right-of-way as follows:

1. COUNTY		2. ROUTE	3. POSTMILE		FOR CALTRANS USE PERMIT NO. DIST/CO/RTE/PM SIMPLEX STAMP DATE OF SIMPLEX STAMP
4. ADDRESS OR STREET NAME			5. CITY		
6. CROSS STREET (Distance and direction from project site)			7. PORTION OF RIGHT-OF-WAY		
8. WORK TO BE PERFORMED BY <input type="checkbox"/> OWN FORCES <input type="checkbox"/> CONTRACTOR			9. ESTIMATED START DATE		
10. ESTIMATED COMPLETION DATE					
11. EXCAVATION	MAX. DEPTH	AVG. DEPTH	AVG. WIDTH	LENGTH	SURFACE TYPE
12. ESTIMATED COST WITHIN STATE HIGHWAY RIGHT-OF-WAY				FUNDING SOURCE(S) <input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> LOCAL <input type="checkbox"/> PRIVATE	
13. PIPES	PRODUCT TYPE	DIAMETER	VOLTAGE / PSIG		14. CALTRANS' PROJECT CODE (ID)
15. <input type="checkbox"/> Double Permit Parent Permit Number _____ Applicant's Reference Number / Utility Work Order Number _____					
16. Have your plans been reviewed by another Caltrans branch? <input type="checkbox"/> NO <input type="checkbox"/> YES (if "YES") Who? _____					
17. Completely describe work to be done within STATE Highway right-of-way:					

Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, etc.

18. Is a City, County or other public agency involved in the approval of this project?

YES (If "YES", check type of project **AND** attach environmental documentation and conditions of approval)

COMMERCIAL DEVELOPMENT BUILDING GRADING OTHER _____

CATEGORICALLY EXEMPT NEGATIVE DECLARATION ENVIRONMENTAL IMPACT REPORT OTHER _____

NO (If "NO", please check the category below which best describes the project **AND** answer questions A - K on page 2)

<input type="checkbox"/> DRIVEWAY OR ROAD APPROACH, RECONSTRUCTION, MAINTENANCE OR RESURFACING <input type="checkbox"/> PUBLIC UTILITY MODIFICATIONS, EXTENSIONS, HOOKUPS <input type="checkbox"/> FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS <input type="checkbox"/> OTHER _____	<input type="checkbox"/> FENCE <input type="checkbox"/> MAILBOX <input type="checkbox"/> EROSION CONTROL <input type="checkbox"/> LANDSCAPING
---	--

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV. 03/2015)

PERMIT NO. _____

The following questions must be completed when a City, County or other public agency **IS NOT** involved in the approval of this project.

Your answers to these questions will assist Departmental staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within State Highway right-of-way and to determine which type of environmental studies may be required to approve your application for an encroachment permit.

It is the applicant's responsibility for the production of all required environmental documentation and supporting studies and in some cases this may be costly and time consuming. If possible, attach photographs of the location of the proposed project. Please answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.)

A. Will any existing vegetation and/or landscaping within State Highway right-of-way be disturbed?

B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the project or State Highway right-of-way?

C. Is the proposed project located within five miles of the coast line?

D. Will the proposed project generate construction noise levels greater than 86 dBA (e.g. jack-hammering, pile driving)?

E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?

F. Are there any recreational trails or paths within the limits of the proposed project or State Highway right-of-way?

G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?

H. Will the proposed project impact access to any businesses or residences?

I. Will the proposed project impact any existing public utilities or public services?

J. Will the proposed project impact existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?

K. Will new lighting be constructed within or adjacent to State Highway right-of-way?

19. Will this project cause a substantial change in the significance of a historical resource (45 years or older), or cultural resource? YES NO
(If "YES", provide a description)

20. Is this project on an existing State Highway or street where the activity involves removal of a scenic resource including a significant tree or stand of trees, a rock outcropping or a historic building? YES NO (If "YES", provide a description)

21. Is work being done on the applicant's property? YES NO (If "YES", attach 6 complete sets of site and grading plans.)

22. Will the proposed project require the disturbance of soil? YES NO
If "YES", estimate the area within State Highway right-of-way in square feet AND acres: _____ (ft²) AND _____ (acres)
estimate the area outside of State Highway right-of-way in square feet AND acres: _____ (ft²) AND _____ (acres)

23. Will the proposed project require dewatering? YES NO
If "YES", estimate total gallons AND gallons/month. _____ (gallons) AND _____ (gallons/month)
SOURCE*: STORM WATER NON-STORM WATER
(*See Caltrans SWMP for definitions of non-storm water discharge: <http://www.dot.ca.gov/hq/env/stormwater/index.htm>)

24. How will any storm water or ground water be disposed of from within or near the limits of the proposed project?
 Storm Drain System Combined Sewer / Storm System Storm Water Retention Basin
 Other (explain): _____

STANDARD ENCROACHMENT PERMIT APPLICATION

TR-0100 (REV. 03/2015)

PERMIT NO. _____

PLEASE READ THE FOLLOWING CLAUSES PRIOR TO SIGNING THIS ENCROACHMENT PERMIT APPLICATION.

The applicant, understands and herein agrees that an encroachment permit can be denied, and/or a bond required for non-payment of prior or present encroachment permit fees. Encroachment Permit fees may still be due when an application is withdrawn or denied, and that a denial may be appealed, in accordance with the California Streets and Highways Code, Section 671.5. All work shall be done in accordance with the California Department of Transportation's (Department) rules and regulations subject to inspection and approval.

The applicant, understands and herein agrees to the general provisions, special provisions and conditions of the encroachment permit, and to indemnify and hold harmless the State, its officers, directors, agents, employees and each of them (Indemnitees) from and against any and all claims, demands, causes of action, damages, costs, expenses, actual attorneys' fees, judgments, losses and liabilities of every kind and nature whatsoever (Claims) arising out of or in connection with the issuance and/or use of this encroachment permit and the placement and subsequent operation and maintenance of said encroachment for: 1) bodily injury and/or death to persons including but not limited to the Applicant, the State and its officers, directors, agents and employees, the Indemnitees, and the public; and 2) damage to property of anyone. Except as provided by law, the indemnification provisions stated above shall apply regardless of the existence or degree of fault of Indemnitees. The Applicant, however, shall not be obligated to indemnify Indemnitees for Claims arising from the sole negligence and willful misconduct of State, its officers, directors, agents or employees.

An encroachment permit is not a property right and does not transfer with the property to a new owner.

COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990: All work within State Highway right-of-way shall be conducted in compliance with all applicable Federal, State and Local Access laws, regulations and guidelines including but not limited to the Americans with Disabilities Act Accessibility Guidelines (ADAAG), the Public Rights-of-Way Guidelines (PROWG), the Department's current Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects", the Department's Encroachment Permits Manual and encroachment permit.

DISCHARGES OF STORM WATER AND NON-STORM WATER: All work within State Highway right-of-way shall be conducted in compliance with all applicable requirements of the National Pollutant Discharge Elimination System (NPDES) permit issued to the Department, to govern the discharge of storm water and non-storm water from its properties. Work shall also be in compliance with all other applicable Federal, State and Local laws and regulations, and with the Department's Encroachment Permits Manual and encroachment permit. Compliance with the Department's NPDES permit requires amongst other things, the preparation and submission of a Storm Water Pollution Protection Plan (SWPPP), or a Water Pollution Control Program (WPCP), and the approval of same by the appropriate reviewing authority prior to the start of any work. Information on the requirements may also be reviewed on the Department's Construction Website at:

<http://www.dot.ca.gov/hq/construc/stormwater>

25. NAME OF APPLICANT OR ORGANIZATION			
ADDRESS OF APPLICANT OR ORGANIZATION WHERE PERMIT IS TO BE MAILED (Include City and Zip Code)			
E-MAIL ADDRESS		PHONE NUMBER	FAX NUMBER
26. NAME OF AUTHORIZED AGENT / ENGINEER (A "Letter of authorization" is required if different from #25)			IS A LETTER OF AUTHORIZATION ATTACHED? <input type="checkbox"/> YES <input type="checkbox"/> NO
ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City and Zip Code)			
E-MAIL ADDRESS		PHONE NUMBER	FAX NUMBER
27. NAME OF BILLING CONTACT (Same as #25 <input type="checkbox"/> Same as #26 <input type="checkbox"/>)			
BILLING ADDRESS WHERE INVOICE(S) IS/ARE TO BE MAILED (Include City and Zip Code)			
E-MAIL ADDRESS		PHONE NUMBER	FAX NUMBER
28. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT	29. PRINT OR TYPE NAME	30. TITLE	31. DATE



JD Pasquetti Engineering, Inc.

3032 Thunder Valley Court
Lincoln, Ca. 95648
Phone 916-543-9401.....Fax 916-543-9426

Bid Item Breakdown

To **John M. Sullivan**
Cosumnes River Land, LLC
P.O. Box 1230
Rancho Murieta, CA 95683

February 14, 2018

Job **Murieta Gardens - Infrastructure Recycled Water Main Line Cost Estimate**

Item	Description	Quantity	Unit		Total
	Recycled Water System				
1	12" Recycled Water Main	2,158	lf	65.90 \$	142,212.20
2	12" Recycled Water Valve	5	ea	2,503.00 \$	12,515.00
3	Recycled Water Blow Off Valve	1	ea	2,558.00 \$	2,558.00
4	1" Recycled Water Air Valve	1	ea	3,462.00 \$	3,462.00
				SUB TOTAL:	160,747.20
				Engineering and Staking soft cost at 8%	12,859.78
				TOTAL:	173,606.98

These cost above have been paid in full to JD Pasquetti in referenced to Baker Williams Engineering Group letter dated April 11, 2016

Michael R. Book

JD Pasquetti

2-14-18

BAKER-WILLIAMS ENGINEERING GROUP

6020 Rutland Drive Suite 19

Carmichael , Ca 95628

(916)-331-4336 Fax (916)-331-4430

July 6, 2018

DRAFT

John M. Sullivan
Cosumnes River Land, LLC
P.O. Box 1230
Rancho Murieta, CA 95683

Subject: Murieta Gardens- Additional Recycle Water Facilities Cost Estimate
Recycle Water Line to Cantova OE3 Parcel
Our File No. 11-01-001

Dear John

The following is the estimated cost to construct future Recycled Water Line to Cantova OE3 Parcel.
The cost include a 15% contingency and a 15% engineering, permitting, and staking soft cost.

A RECYCLE WATER LINE TO CANTOVA OE3 PARCEL PER INFRASTRUCTURE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	6"Recycled Water line	330 LF	\$126.50	\$41,745.00
2	6" Gate Valve	1 EA	\$2,050.00	\$2,050.00
3	Recycled Water Blow Off Valve	1 EA	\$1,500.00	\$1,500.00
4	Patch and Pave Trench	1,100 SF	\$9.75	\$10,725.00
SUB TOTAL A				\$56,020.00
B RECYCLE WATER LINE FROM SOBON LANE TO MURIETA DRIVE PER MURIETA GARDENS II				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	6"Recycled Water line	260 LF	\$41.50	\$10,790.00
2	6" Gate Valve	1 EA	\$1,980.00	\$1,980.00
3	Recycled Water Blow Off Valve	1 EA	\$3,310.00	\$3,310.00
4	1" Recycle Water Air Valve	1 EA	\$4,800.00	\$4,800.00
SUB TOTAL B				\$20,880.00
SUB TOTAL A & B				\$76,900.00
Engineering, Permitting, and Staking Soft Costs at 15%				\$11,535.00
Contingencies at 15%				\$11,535.00
TOTAL ITEM A & B				\$99,970.00

Note:

- 1| This estimate is based on plans not yet constructed subject to change from field condition.
- 2| The unit prices shown are based on the contractor bids and from engineering opinion of cost

If you have any questions of need additional information, please call.

BAKER-WILLIAMS ENGINEERING GROUP



Michael Robertson

BAKER-WILLIAMS ENGINEERING GROUP

6020 Rutland Drive Suite 19
Carmichael , Ca 95628
(916)-331-4336 Fax (916)-331-4430

July 6, 2018

DRAFT

John M. Sullivan
Cosumnes River Land, LLC
P.O. Box 1230
Rancho Murieta, CA 95683

Subject: Murieta Gardens- Additional Recycle Water Facilities Cost Estimate
Bore Steel Casing Under HWY 16
Our File No. 11-01-001

Dear John

The following is the estimated cost to bore a steel casing for future Recycled Water facilities associated with the Murieta Gardens project.

The cost include a 15% contingency and a 15% engineering, permitting, and staking soft cost.

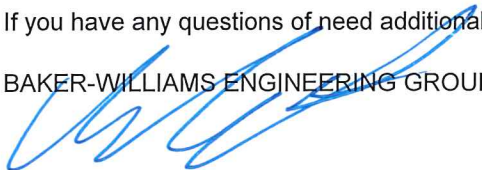
BORE STEEL CASING UNDER HWY 16 FOR FUTURE RECYCLE WATER LINE				
ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	BORE CASING UNDER HWY 16	175 LF	\$1,181.00	\$206,675.00
			SUB TOTAL	\$206,675.00
			Engineering, Permitting, and Staking Soft Costs at 15%	\$31,001.25
			Contingencies at 15%	\$31,001.25
			TOTAL ITEM	\$268,677.50

Note:

- 1 This estimate is based on plans not yet constructed subject to change from field condition.
- 2 The unit prices shown are based on the contractor bids and from engineering opinion of cost

If you have any questions or need additional information, please call.

BAKER-WILLIAMS ENGINEERING GROUP



Michael Robertson