

DOCUMENT 00913

ADDENDUM NUMBER 3

Issued: January 10, 2013

**SONOMA VALLEY COUNTY SANITATION DISTRICT
BIOSOLIDS MANAGEMENT UPGRADE**

FROM: Sonoma Valley County Sanitation District
404 Aviation Boulevard
Santa Rosa, CA 95403-9019

TO: Prospective Bidders

This Addendum forms a part of and modifies the Project Manual dated November 2012. Bidder shall acknowledge receipt of this Addendum in the space provided in Document 00400 (Bid Form).

Modified text is indicated as follows: Double-underline designates text to be inserted; ~~strikethrough~~ designates text to be deleted.

Addendum Number 3 consists of 11 pages (size 8 1/2" x 11") and 11 revised Drawings.

1.1 GENERAL CHANGES

A. No changes.

1.2 CHANGES TO PRIOR ADDENDA

A. No changes.

1.3 CHANGES TO INTRODUCTORY INFORMATION AND BIDDING REQUIREMENTS

A. Document 00010 (Table of Contents):

1. Delete the following from the Table of Contents:
~~11345 Polymer Feed System~~

B. Document 00100 (Advertisement for Bids):

1. Modify Paragraph 2 as follows:

- 2. DESCRIPTION AND LOCATION OF THE WORK.** The Work consists of upgrading the biosolids handling facility at 22675 8th Street East, in an unincorporated area of Sonoma, California. The Work includes, but is not limited to, the installation of a new screw press and construction of new equipment and load-out building. Work also includes removal of an existing belt press and conveyor, ~~and replacement of polymer blending unit,~~ electrical, and preparation and painting of pump room in the existing dewatering building. Bidding Documents contain the full description of the Work.

C. Document 00200 (Instructions to Bidders):

1. Modify Paragraph 22.F as follows:
 - F. After Bid Opening, the Apparent Low Bidder must submit Document 00470 (Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion - Lower Tier Covered Transactions) executed by each of Bidder's Subcontractors. Submit within 5 Days of ~~Bid Opening~~Owner's request.

D. Document 00320 (Geotechnical Data and Existing Conditions):

1. Modify Paragraph 5.A as follows:
 - A. Before submitting a Bid, each Bidder shall be responsible to obtain such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions ~~(including, but not limited to surface, subsurface, and Underground Facilities, and sludge conditions)~~ at or contiguous to the Site or otherwise, which may affect cost, progress, performance or furnishing of Work or which relate to any aspect of the means, methods, techniques, sequences or procedures of construction to be employed by Bidder and safety precautions and programs incident thereto or which Bidder deems necessary to determine its Bid for performing and furnishing the Work in accordance with the time, price and other terms and conditions of Contract Documents. Bidders shall advise Owner in writing during the Bid period of any questions, suppositions, inferences or deductions Bidders may have for Owner's review and response.

E. Document 00400 (Bid Form):

1. Paragraph 4, delete Bid Item 13 from the Schedule of Bid Prices. Renumber remaining items accordingly.

13.	Polymer Blending System	XXXXXX	Lump Sum	XXXXXX	\$
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2. Bidder shall use the revised Document 00400 (Bid Form) attached, marked "REVISED 1/10/13" in its Bid.

1.4 CHANGES TO CONTRACTING REQUIREMENTS

A. Document 00520 (Agreement):

1. Bid Item 13 will be deleted from the final Contract Documents.
2. Delete Paragraph 3.3 in its entirety.
 - ~~3.3 Liquidated Damages for Failure to Meet Minimum Discharge Solids Percent Specification.~~

~~Owner and Contractor recognize that Owner will also suffer financial loss due to Owner's increased cost to transport and dispose of sludge comprised of a lower percent of total Discharge Solids than specified as part of the minimum performance standards in Section 11624 (Screw Press). Contractor and Owner agree that because of the nature of the Project, it would be impractical or extremely difficult to fix the amount of actual loss incurred by Owner due to failure of the Screw Press to meet this aspect of the minimum performance specifications. Accordingly, Owner and Contractor agree that as liquidated damages for such loss, Contractor shall pay Owner:~~

~~3.3.1 Sixty thousand dollars (\$60,000) for each 0.25 percent (0.25%) below the Minimum Discharge Solids Percentage specified in Section 11624 (Screw Press), which percentage shall be determined by Owner pursuant to the testing specified in Section 11624 (Screw Press). These damages shall be prorated to the nearest hundredth of a percent (0.01 %).~~

~~Liquidated damages collected by Owner under this provision shall not affect, limit, or in any way prejudice Owner's right to claim further damages or compensation for any other losses or damages it may suffer by virtue of any breach of the Contract Documents.~~

1.5 CHANGES TO CONDITIONS OF THE CONTRACT

A. Section 00800 (Supplementary Conditions):

1. Modify Supplement to Paragraph 4.2 as follows:
 - a. Modify Paragraph 4.2.D.1.f as follows:
 - f. Insured perils: All Risks of Direct Physical Damage or Loss, including flood and, ~~for scheduled locations, excluding earthquake, except as excluded.~~

1.6 CHANGES TO SPECIFICATIONS

A. Section 01100 (Summary):

1. Modify Paragraph 1.3 A as follows:
 - A. Work comprises upgrade of Owner's biosolids management system at 22675 8th Street East, in an unincorporated area of Sonoma, California, including without limitation the installation of a new screw press and construction of new equipment and load-out building. Work also includes removal of an existing belt press and conveyor, ~~and replacement of polymer blending unit;~~ and preparation and painting of pump room in the existing dewatering building. Contract Documents fully describe the Work.
2. Delete Paragraph 1.4 D.13. Renumber remaining paragraphs accordingly.
 - ~~13. Polymer Blending System. The lump sum price paid under this item shall be full payment for providing the polymer blending unit and control panel.~~
3. Modify Paragraph 1.4 D.15 as follows:
 15. Electrical, Instrumentation, and Controls. The lump sum price paid under this item shall be full payment for providing electrical panelboards, transformers, lighting systems, grounding system, receptacles, conduits, cables, conductors, pull boxes, signage, system integration, instrumentation and controls of existing instruments and new instruments not already included in the screw press or existing polymer blending systems and acceptance testing.

B. Section 01810 (Commissioning):

1. Delete Paragraph 1.3 A.2.c. Renumber remaining paragraphs accordingly.
 - ~~c. Polymer Blending system~~
2. Insert the following as Paragraph 1.3 B.1.a. Renumber remaining paragraphs accordingly.
 - a. Thickened Sludge Pumps

C. Section 02220 (Demolition, Cutting, and Patching):

1. Delete Paragraph 1.1 A.1.c. Renumber remaining paragraphs accordingly.
 - ~~c. Polymer system including polymer blending unit and associated piping~~

D. Section 05505 (Metal Fabrications):

1. Insert the following after Paragraph 1.1 A. 2.:

3. Trench drain and catch basin grate.

2. Insert the following as Paragraph 2.3 G:

G. Trench drain and catch basin grate:

1. Bearing bars: 1 1/2" x 3/8" mild steel placed at 15/16" on center.
2. Cross bars: 4" on center
3. Ends: banded with 1 1/2" x 3/8" mild steel bars
4. Finish: hot-dipped galvanized

E. Section 11345 (Polymer Feed System):

1. Delete Section 11345 in its entirety.

F. Section 11624 (Screw Press):

1. Delete Paragraph 1.4 B.3.

~~3. If the screw press fails to meet the Minimum Discharge Solids Percentage specified during a test performed by Owner upon completion of installation, but does meet all other design and performance requirements, Owner may accept the screw press and assess liquidated damages as described in Document 00520 (Agreement). Owner will use SM 2540B to determine the Minimum Discharge Solids Percentage for the purposes of this performance test. Nothing in this paragraph shall be construed to alter Owner's product Specifications for the purposes of a substitution request.~~

G. Section 13441 (Control Loop Descriptions):

1. Delete Paragraph 1.1 A.1. Renumber remaining paragraphs accordingly.

~~1. Section 11345 (Polymer Feed System)~~

2. Modify Paragraph 3.1 F as follows:

~~F. Polymer Blending Unit Control. The performance requirements are specified in Section 11345 (Polymer Feed System):~~

H. Section 13448 (Control Panels and Enclosures):

1. Delete Paragraph 1.1 A.2. Renumber remaining paragraphs accordingly.

~~2. Section 11345 (Polymer Feed System)~~

2. Modify Paragraph 3.2, Schedule of Panels, as follows:

Panel	Specification Section	Minimum Size	Rating
Main Control Panel	11624	As required by Manufacturer	NEMA 4X
Polymer Blending Unit Control Panel	11345	As required by Manufacturer	NEMA 4X
Cake Pump Control Panel	11390	48" H x 36" W x 16" D	NEMA 4X
Camera Control Box	13448	24" H x 24" W x 12" D	NEMA 4X
Control Box	13448	24" H x 24" W x 12" D	NEMA 4X
Thickened sludge pump control panel	13448	As required by Manufacturer	NEMA 4X

1.7 CHANGES TO DRAWINGS

- A. Delete Drawing No. D-02 and replace with Drawing No. D-02 attached and marked "3 JAN 2013, Addendum No. 3."

- B. Delete Drawing No. A-03 and replace with Drawing No. A-03 attached and marked "3 JAN 2013, Addendum No. 3."
- C. Delete Drawing No. S-03 and replace with Drawing No. S-03 attached and marked "3 JAN 2013, Addendum No. 3."
- D. Delete Drawing No. E-05 and replace with Drawing No. E-05 attached and marked "3 JAN 2013, Addendum No. 3."
- E. Delete Drawing No. E-06 and replace with Drawing No. E-06 attached and marked "3 JAN 2013, Addendum No. 3."
- F. Delete Drawing No. E-07 and replace with Drawing No. E-07 attached and marked "3 JAN 2013, Addendum No. 3."
- G. Delete Drawing No. E-08 and replace with Drawing No. E-08 attached and marked "3 JAN 2013, Addendum No. 3."
- H. Delete Drawing No. E-10 and replace with Drawing No. E-10 attached and marked "3 JAN 2013, Addendum No. 3."
- I. Delete Drawing No. I-03 and replace with Drawing No. I-03 attached and marked "3 JAN 2013, Addendum No. 3."
- J. Delete Drawing No. I-04 and replace with Drawing No. I-04 attached and marked "3 JAN 2013, Addendum No. 3."
- K. Delete Drawing No. I-06 and replace with Drawing No. I-06 attached and marked "3 JAN 2013, Addendum No. 3."

1.8 QUESTION(S)/ANSWER(S)

Owner's responses to Bidder questions shall be for the purposes of interpretation and clarification of the Contract Documents only, and shall not be construed as changing, superseding, or contradicting any express term in the Contract Documents. If any Bidder believes that a response to a question warrants a change in any term in the Contract Documents, the Bidder shall so request the change be made in writing addressed to Owner and received no later than the latest date for submitting Bidder questions. In the absence of a change in any term of the Contract Documents, the express terms of the Contract Documents shall have precedence. Bidder questions are listed below verbatim.

A. FKC Co., Ltd.:

1. For the Biosolids Management Upgrade at Sonoma there are liquidated damages as listed in section 00520, page 3, paragraph 3.3.
Bonding / Insurance companies have to this point stated that they cannot bond open ended liquidated damages.
Therefore the question/request is to have the wording changed to provide a cap; for example -- not to exceed \$120,000 in liquidated damages.
This would allow general contractors and manufacturers to procure the necessary bonding / insurance for this project.

Owner's response: Answered in this Addendum above.

B. G2 Metal Fab:

1. Drawing S-05 shows a trench drain and catch basin with callouts to details 1 and 3 on S-03. Detail 1 on S-03 calls for FRP grating at the catch basin. Detail 3 does not clarify what

type of grating is required at the trench drain, is this also FRP? The specifications do not include a division 6, which typically lists FRP grating requirement. Can you provide detail on the requirements for the FRP grating at the catch basin (and trench drain if required). Can you also clarify if there is any type of embedded support required for the grating, and whether it is FRP or metal.

Owner's response: Answered in this Addendum above.

C. West Bay Builders:

1. In regards to the above referenced project bidding on 1-29-2013, is there a participation goal for DBE./MBE/WBE?

Owner's response: This is in the Bidding Documents. See Section 01415 (Regulatory Requirements - Funding), Paragraph 1.3 D (Page 1).

D. K. G. Walters Construction Co.:

1. Our Bonding/Insurance agent is informing us of a \$60,000 LD for performance of the system. Is this required or can this be lowered to match the Liquidated Damages of the project. \$60,000 seems excessive.

Owner's response: Answered in this Addendum above.

2. Please see the question below from our bonding and insurance agent and respond as appropriate. Please call with any questions. Thank you.

Brad, I have gone through the insurance requirements and the owner will be providing the builders risk which will include coverage for flood and earthquake (for scheduled locations unless excluded). You should ask them if this location is scheduled to cover earthquake to make sure they have the coverage here. If not then we will need to get you a quote for the earthquake, although you are only on the hook for 5% of the contract value but that is \$150,000 and I doubt you want to self insure that risk.

Owner's response: Answered in this Addendum above.

3. I have gone page by page thru the specifications and plans twice, and have been un-able to locate the Pipe Schedule.

Please let me know where I can find it, or if one was not included, please furnish one at your earliest convenience.

Owner's response: This information is in the Bidding Documents. See Section 15051 (Basic Piping Materials and Methods).

END OF DOCUMENT

*** REVISED 1/10/13 ***

DOCUMENT 00400

BID FORM

To be submitted as part of Envelope "A" by the time and date specified in Document 00200 (Instructions to Bidders), paragraph 1.

TO THE HONORABLE BOARD OF DIRECTORS OF THE SONOMA VALLEY COUNTY SANITATION DISTRICT

THIS BID IS SUBMITTED BY:

(Firm/Company Name)

Re: CONTRACT NUMBER 70-712-7#2, SONOMA VALLEY COUNTY SANITATION DISTRICT BIOSOLIDS MANAGEMENT UPGRADE

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the Sonoma Valley County Sanitation District, a local district of the State of California ("Owner") in the form included in the Contract Documents, Document 00520 (Agreement), to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 00100 (Advertisement for Bids), and Document 00200 (Instructions to Bidders), including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 90 Days after the day of Bid opening.
3. In submitting this Bid, Bidder represents:
 - (a) Bidder has examined all of the Contract Documents and all of the Addenda (receipt of all of which is hereby acknowledged). The Addenda are listed below.

Addendum Number	Addendum Date	Signature of Bidder

- (b) Bidder has visited the Site and performed all tasks, research, investigation, reviews, examinations, and analysis and given notices, regarding the Project and the Site, as set forth in Document 00520 (Agreement), Article 5.

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- (c) Bidder has given Owner prompt written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in or among the Contract Documents and as-built drawings and actual conditions and the written resolution thereof through Addenda issued by Owner is acceptable to Contractor.
4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time stated and in strict accordance with the Contract Documents for the following sums of money listed in the following Schedule of Bid Prices:

SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01100 (Summary of Work). Quote in figures only, unless words are specifically requested.

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1.	Bonds	XXXXXX	Lump Sum	XXXXX	\$
2.	Insurance	XXXXXX	Lump Sum	XXXXX	\$
3.	Safety Program and Implementation	XXXXXX	Lump Sum	XXXXX	\$
4.	Construction Material Waste Management Plan and Implementation	XXXXXX	Lump Sum	XXXXX	\$
5.	Mobilization/Demobilization	XXXXXX	Lump Sum	XXXXX	\$
6.	Shoring and Bracing	XXXXXX	Lump Sum	XXXXX	\$
7.	Demolition	XXXXXX	Lump Sum	XXXXX	\$
8.	Screw Press System	XXXXXX	Lump Sum	XXXXX	\$
9.	Sitework	XXXXXX	Lump Sum	XXXXX	\$
10.	Imported Engineered Fill	700	Cubic Yard		
11.	Concrete Masonry Wall	XXXXXX	Lump Sum	XXXXX	\$
12.	Concrete	XXXXXX	Lump Sum	XXXXX	\$
13.	Existing Building Modifications	XXXXXX	Lump Sum	XXXXX	\$
14.	Electrical, Instrumentation, and Controls	XXXXXX	Lump Sum	XXXXX	\$

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ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
15.	Pre-Engineered Building	XXXXXX	Lump Sum	XXXXX	\$
16.	Installation, Operation, and Maintenance Manuals	XXXXXX	Lump Sum	XXXXX	\$
17.	All Other Work	XXXXXX	Lump Sum	XXXXX	\$
TOTAL BID PRICE					\$

Total: _____
 (Words)

5. Subcontractors for work included in all Bid items are listed on the attached Document 00430 (Subcontractors List).
6. The undersigned Bidder understands that Owner reserves the right to reject this Bid.
7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in paragraph 2 of this Document 00400 or at any other time thereafter unless the Notice of Award is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 00200 (Instructions to Bidders) within the times specified therein. These documents include, but are not limited to, Document 00520 (Agreement), Document 00610 (Construction Performance Bond), and Document 00620 (Construction Labor and Material Payment Bond).
8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
9. The undersigned Bidder herewith encloses cash, a cashier’s check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 00200 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to “Sonoma Valley County Sanitation District.”
10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 00700 (General Conditions) and to complete all work within the time specified in Document 00520 (Agreement). The undersigned Bidder acknowledges that Owner has reserved the right to delay or modify the commencement date. The undersigned Bidder further acknowledges Owner has reserved the right to perform independent work at the Site, the extent of such work may not be determined until after the opening of the Bids, and that the undersigned Bidder will be required to cooperate with such other work in accordance with the requirements of the Contract Documents.

*** REVISED 1/10/13 ***

11. The undersigned Bidder agrees that, in accordance with Document 00700 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 00520 (Agreement) shall be as set forth in Document 00520 (Agreement).

12. The names of all persons interested in the foregoing Bid as principals are:

(IMPORTANT NOTICE: If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full).

NAME OF BIDDER: _____
licensed in accordance with an act for the registration of Contractors, and with license number: _____ Expiration: _____.

Where incorporated, if applicable

Principals

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Signature of Bidder

Date of Execution

Place of Execution

NOTE: If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address: _____

Contractor's Representative(s), (name, title): _____

*** REVISED 1/10/13 ***

Officers authorized to sign contracts:

Signature of Officer

Title

Date of Execution

Place of Execution

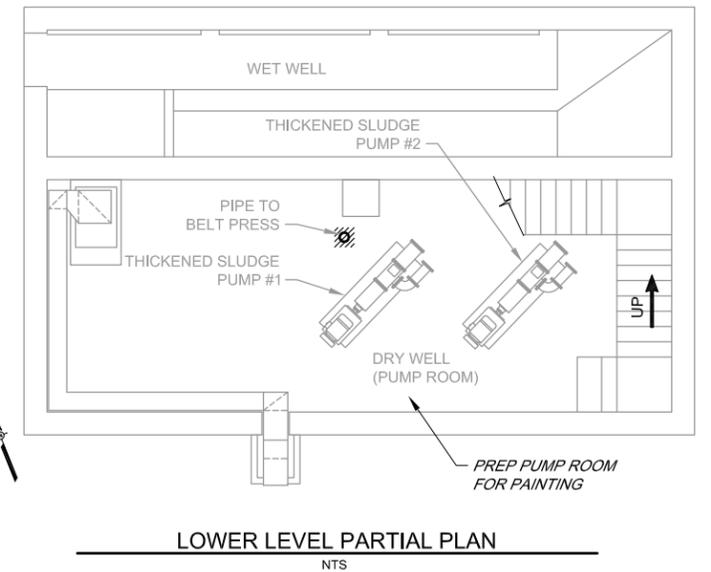
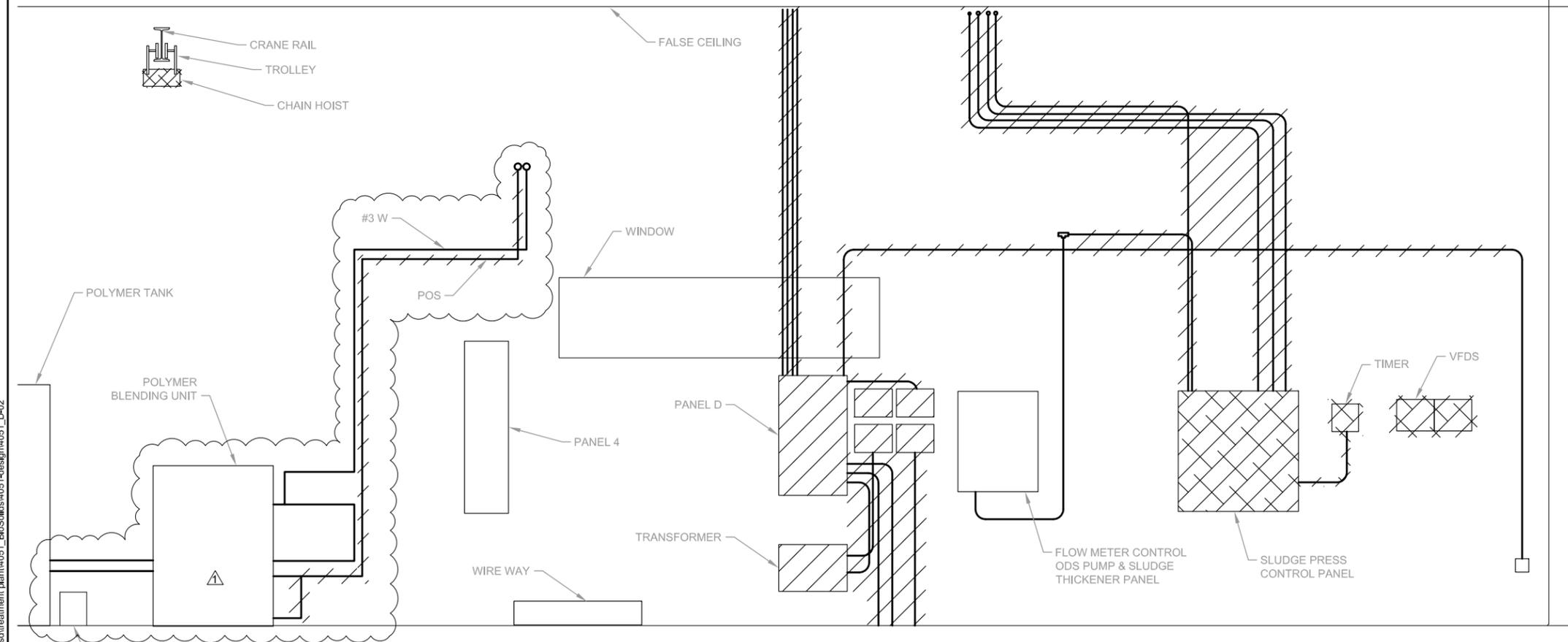
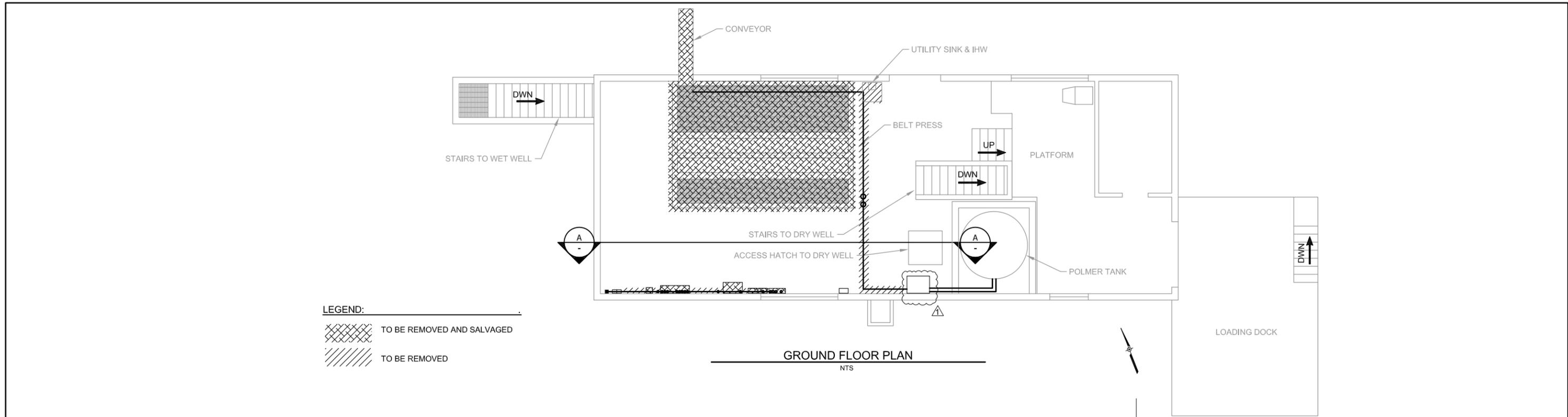
Telephone Number(s):

Fax Number(s):

Email address(es):

Date of Bid:

END OF DOCUMENT



GENERAL NOTES:

- ELECTRICAL: REMOVE WIRES TO SOURCE AND REMOVE CONDUITS UP TO FALSE CEILING OR FLUSH WITH FLOOR IF NOT USED ANOTHER PIECE OF EQUIPMENT. CAP CONDUIT AND LABEL ABANDONED. INSTALL NEW WIRES AND CONDUITS.
- PIPING: REMOVE PIPES TO SOURCE. DOWN TO DRY WELL, PLACE COVER OVER FLOOR PENETRATIONS, AND CAP.

\\sa-data\proj\sa\bioms\sonoma_valley_csd\sludge_treatment_plant\4051_Biosolids\4051-design\4051_D-02

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

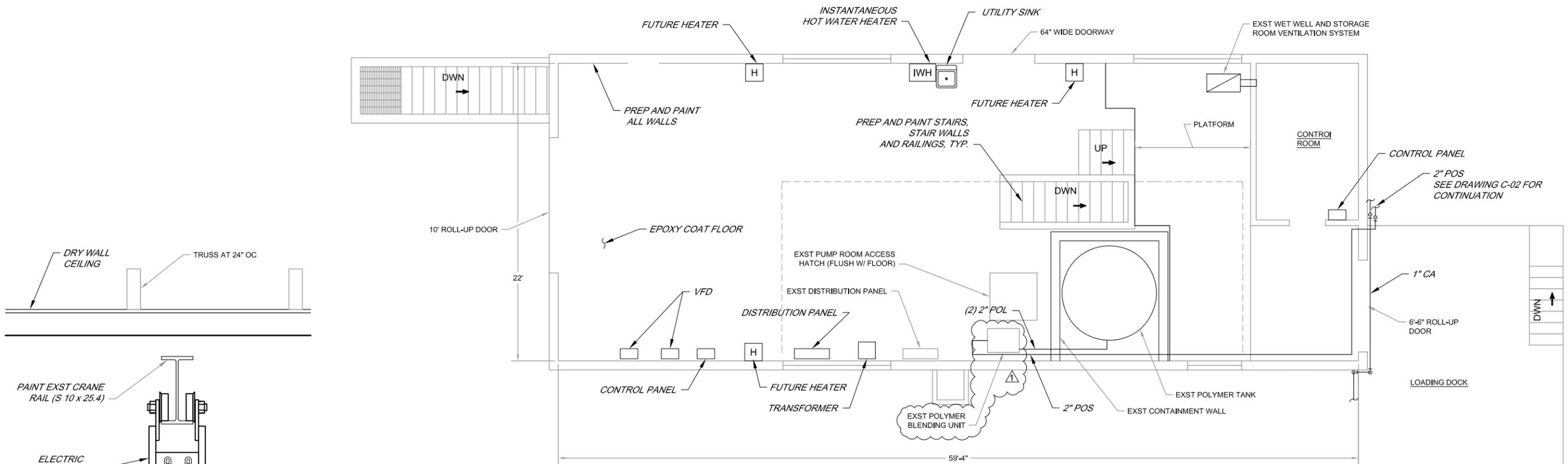


NO.	DATE	REVISION	BY
1	3 JAN 2013	ADDENDUM NO. 3	RS

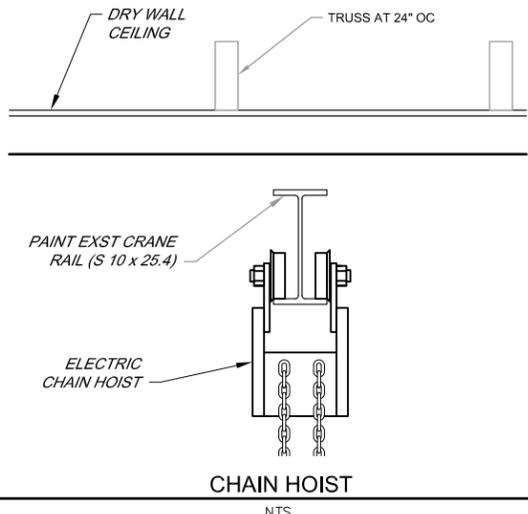
**SONOMA VALLEY COUNTY
SANITATION DISTRICT**

SCALE:	AS SHOWN	DATE:	10/30/2012
DRAWN:	ADF		
REVIEWED:	<i>Kent Gylfe</i>		

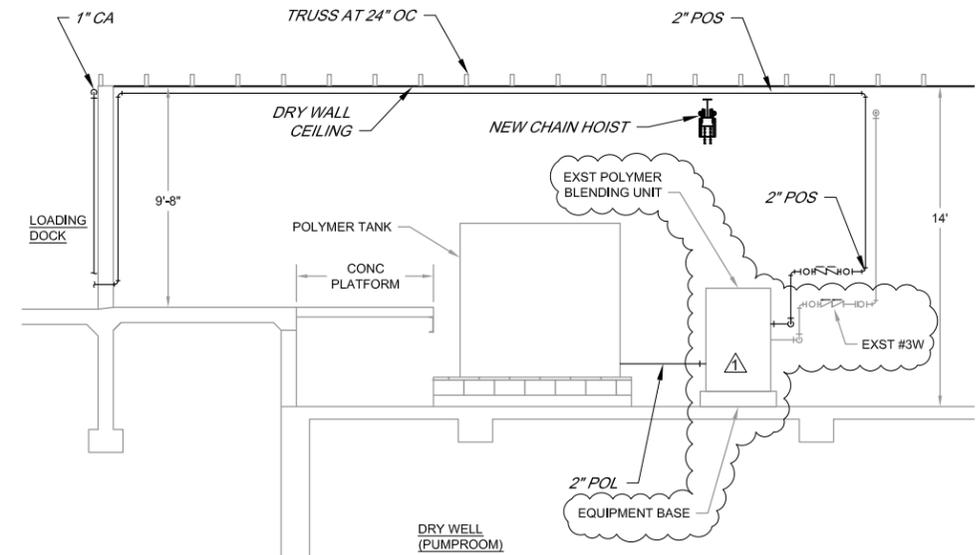
SVCSD BIOSOLIDS MANAGEMENT UPGRADE	
DEMOLITION WITHIN EXISTING SLUDGE PRESS BUILDING	
FILE NAME: 4051_D-02	DRAWING NUMBER: D-02
CONTRACT NUMBER: 70-712-7#2	SHEET 10 OF 49



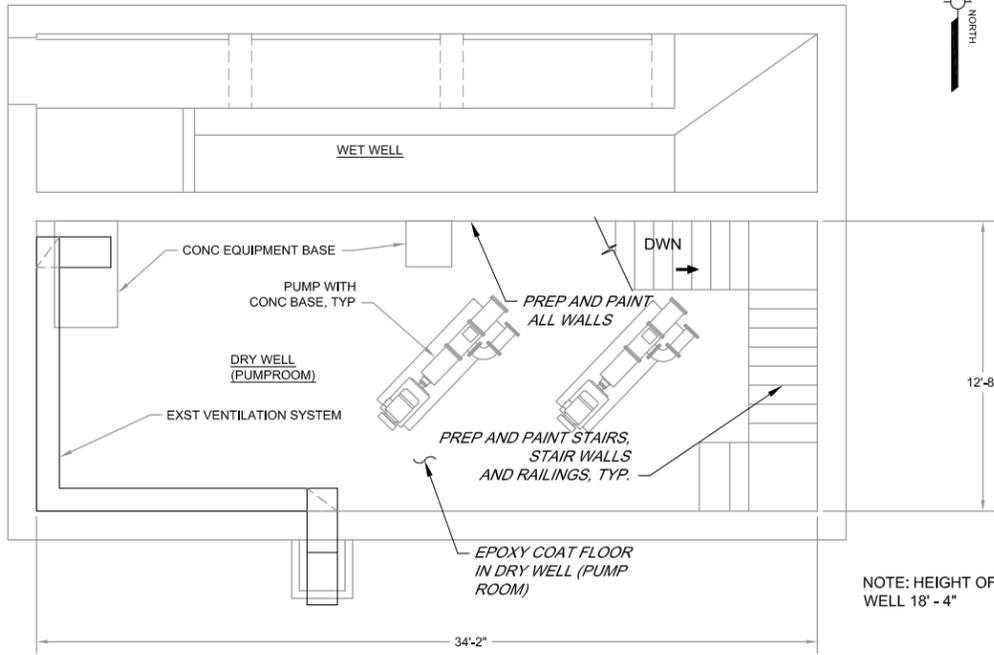
PLAN - GROUND FLOOR
SCALE: 1/4" = 1'-0"



CHAIN HOIST
NTS



PARTIAL INTERIOR ELEVATION - SOUTH WALL
SCALE: 1/4" = 1'-0"



PLAN - DRY WELL (PUMP ROOM)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. FIELD VERIFY ALL DIMENSIONS SHOWN OR NOTED ON THE DRAWING.

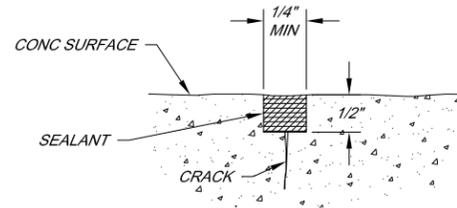


NO.	DATE	REVISION	BY
3	JAN 2013	ADDENDUM NO. 3	RS

SONOMA VALLEY COUNTY
SANITATION DISTRICT

SCALE: AS SHOWN	DATE: 10/30/2012
DRAWN: ---	
REVIEWED: <i>Kent Gyle</i>	

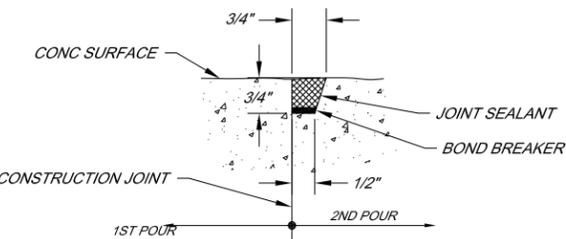
SVCSD BIOSOLIDS MANAGEMENT UPGRADE EXISTING SLUDGE PRESS BUILDING ARCHITECTURAL SECTION, PLAN AND DETAILS		
FILE NAME: 4051_ARCHTECTURAL-2	DRAWING NUMBER: A-03	SHEET 15 OF 49
CONTRACT NUMBER: 70-712-7#2		



- NOTES:**
1. ENLARGE CRACK AT CONCRETE SURFACE AS SHOWN AND APPLY SEALANT.
 2. ALL CRACKS IN WATER RETAINING STRUCTURE MUST BE REPAIRED PRIOR TO FILLING.
 3. WIDEN CRACK SHALL BE 1/8" MINIMUM EACH SIDE OF CRACKED CENTERLINE.

CONCRETE CRACK REPAIR

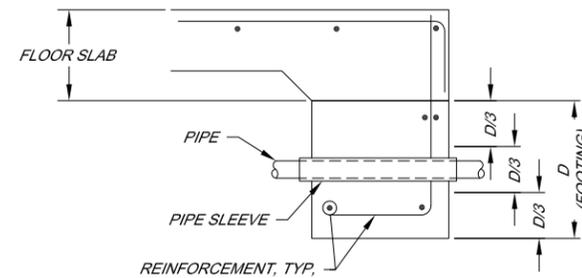
NTS



- NOTES:**
1. DO NOT APPLY BOND BREAKER TO SEALANT GROOVE. BOND BREAKER SHALL BE APPLIED NEATLY TO BOTTOM OF GROOVE ONLY.
 2. BOND BREAKER TAPE SHALL NOT BE USED EXCEPT FOR SLIP DOWEL JOINTS.
 3. ALL JOINTS OF HYDRAULIC STRUCTURES RETAINING WATER SHALL HAVE A SEALANT GROOVE.

TYPICAL SEALANT GROOVE

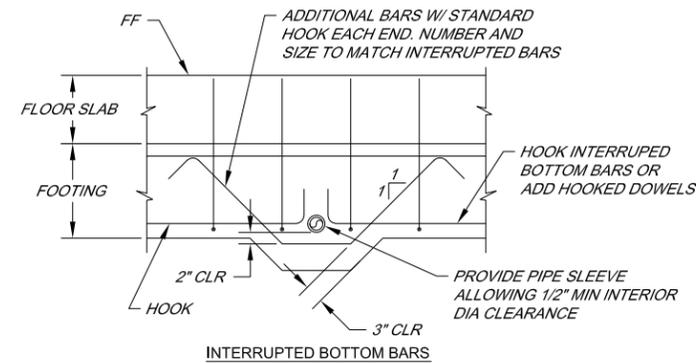
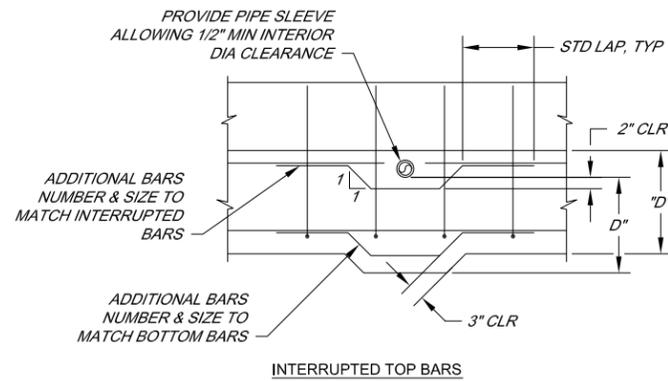
NTS



- NOTES:**
1. FOR PIPES WHICH PASS THROUGH THE MIDDLE THIRD OF FOOTING, PROVIDE PIPE SLEEVE ALLOWING 1/2" MIN INTERIOR DIA CLEARANCE.
 2. FOR PIPES WHICH PASS THROUGH FOOTING OUTSIDE MIDDLE THIRD, BUT DO NOT INTERRUPT REINFORCEMENT CONTACT OWNER FOR FUTURE DIRECTION.
 3. FOR PIPES WHICH INTERRUPT REINFORCEMENT, SEE

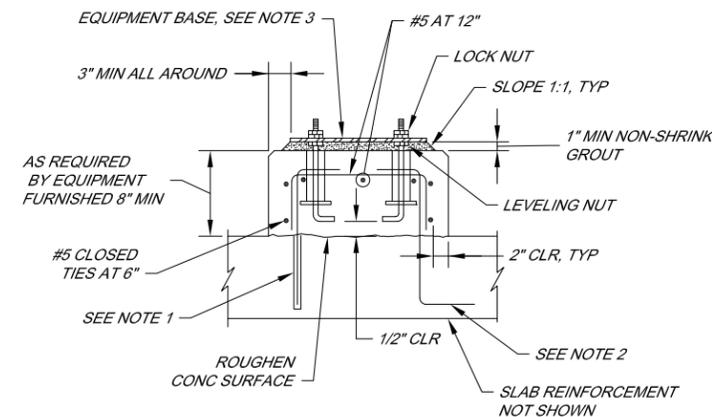
PIPES THROUGH FOOTING

NTS



PIPES THROUGH FOUNDATION REINFORCING

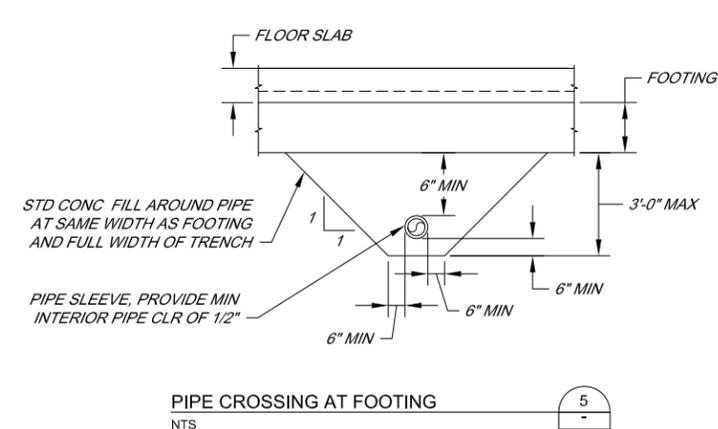
NTS



- NOTES:**
1. FOR NEW EQUIPMENT BASES ON EXISTING SLABS, DRILL INTO EXISTING SLAB TO DEVELOPMENT DEPTH AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE AND SET #5 HOOKED DOWELS IN EPOXY GROUT.
 2. FOR EQUIPMENT BASES ON NEW SLABS, PROVIDE #5 DOWELS HAVING TWO HOOKED ENDS AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE.
 3. EQUIPMENT BASE DIMENSIONS SHALL BE AS INDICATED ON DRAWINGS OR AS DETERMINED BY EQUIPMENT MANUFACTURER AND APPROVED BY ENGINEER.
 4. ANCHOR BOLTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER. BOLTS SHALL BE HELD IN POSITION WITH TEMPLATE WHILE EQUIPMENT BASE IS BEING CAST.
 5. PIPE SLEEVES SHALL BE USED TO PROVIDE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT. PIPE SLEEVES SHALL HAVE MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND MAXIMUM INTERNAL DIAMETER OF 3" GREATER THAN BOLT DIAMETER.
 6. EQUIPMENT BASES SHALL BE INSTALLED LEVEL. TOLERANCE IS 1/16"

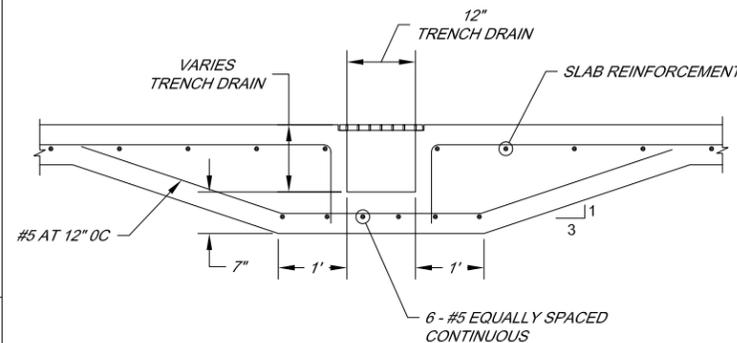
EQUIPMENT BASE

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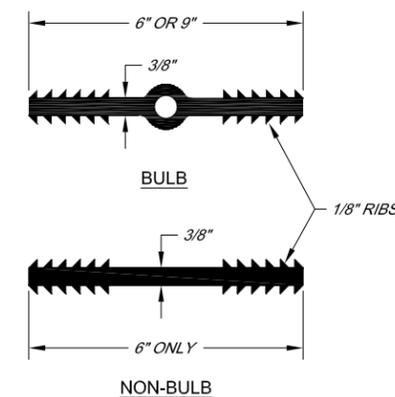
PIPE CROSSING AT FOOTING

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TRENCH DRAIN

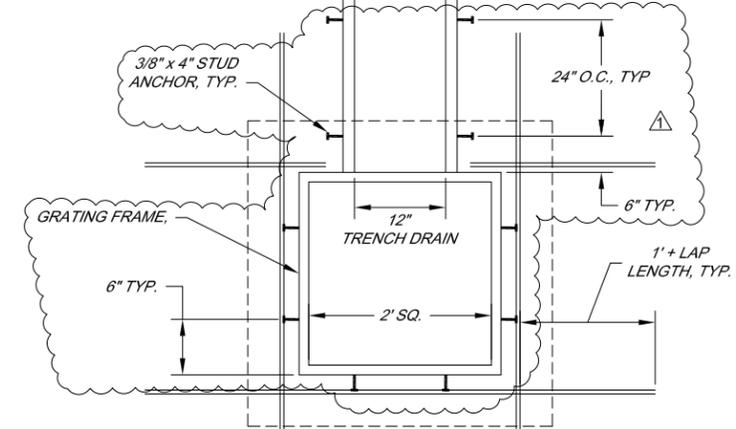
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- NOTES:**
1. - USE 9" AT EXPANSION JOINTS ONLY.
 - USE 6" BULB AT CONTRACTION JOINTS.
 - USE 6" NON-BULB AT CONTRACTION JOINTS. (WITH REINFORCING CONTINUOUS THRU JOINT)

WATERSTOP

NTS



CATCH BASIN

NTS



- NOTE:**
FOR ELEV TOP OF GRATE AND INVERT CATCH BASIN SEE DRAWINGS

CATCH BASIN

NTS



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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

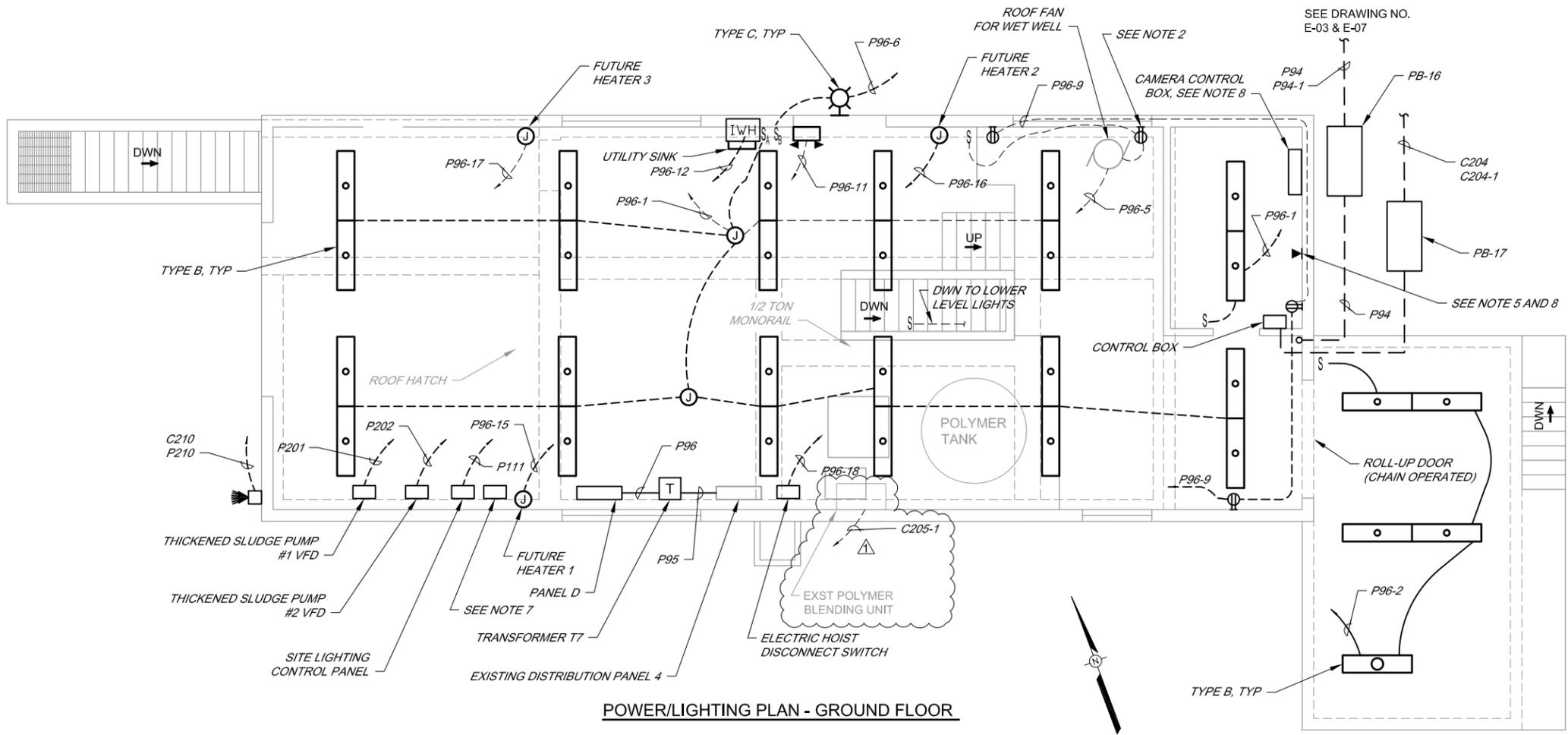
NO.	DATE	REVISION	BY
3	JAN 2013	ADDENDUM NO. 3	RS

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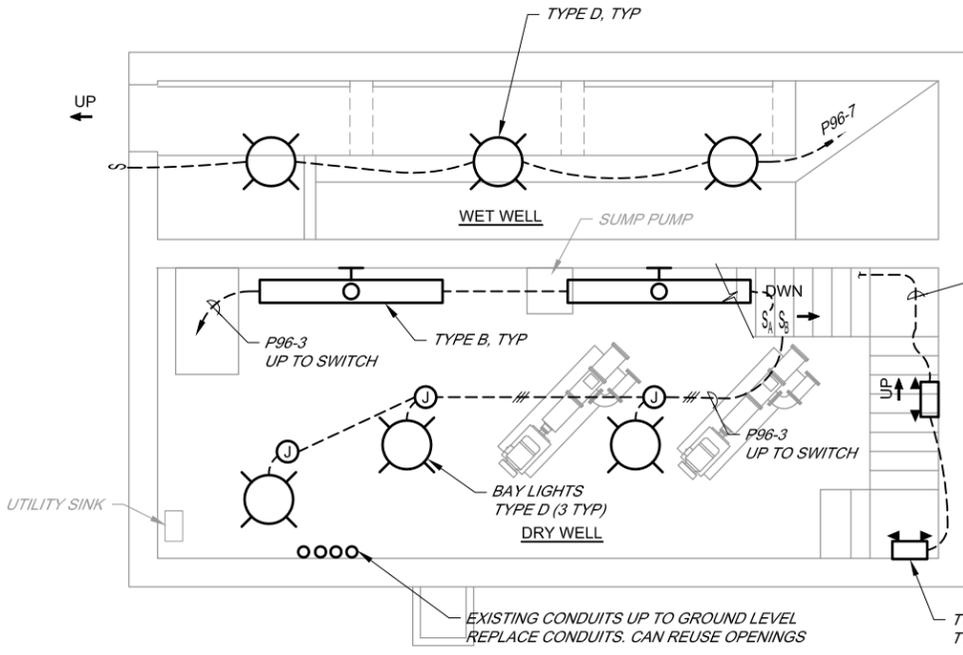
SCALE:	AS SHOWN	DATE:	10/30/2012
DRAWN:	ADF		
REVIEWED:	<i>Kent Gylfe</i>		



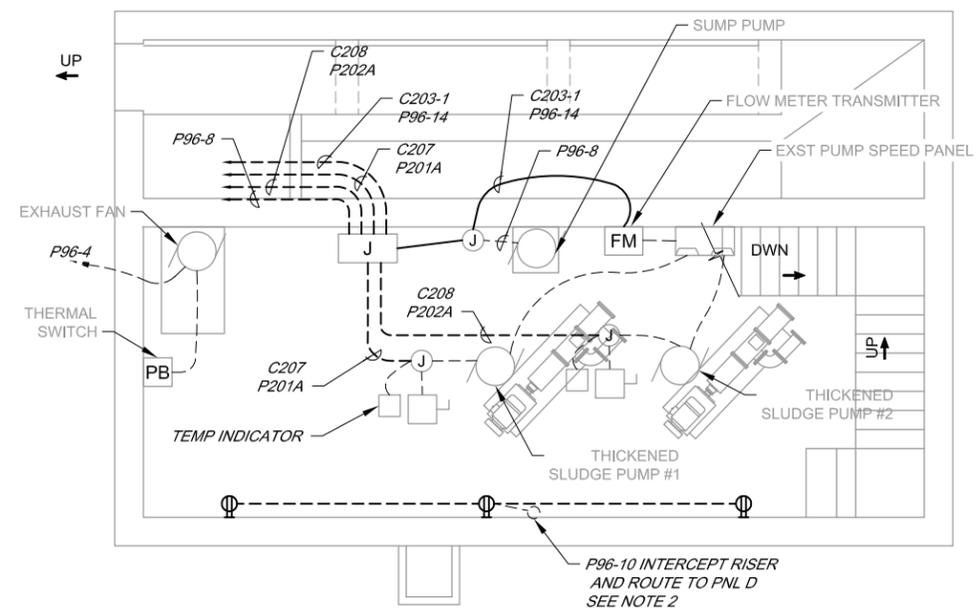
SVCSO BIOSOLIDS MANAGEMENT UPGRADE		DRAWING NUMBER: S-03	
MISCELLANEOUS CONCRETE DETAILS		SHEET 18 OF 49	
FILE NAME:	4051_STRUCTURAL_GEN-DETAILS	CONTRACT NUMBER:	70-712-7#2



POWER/LIGHTING PLAN - GROUND FLOOR



LIGHT PLAN - LOWER LEVEL DRY AND WET WELL



POWER PLAN - LOWER LEVEL DRY WELL

- NOTES:**
1. PLANS ARE SCHEMATICALLY SHOWN FOR CLARITY PURPOSES. CONTRACTOR NEEDS TO FIELD VERIFY ACTUAL CONDUIT LOCATIONS.
 2. REMOVE EXISTING CONDUITS AND WIRES, LIGHTS, RECEPTACLES AND COVER PLATES AND REPLACE WITH NEW.
 3. RUN POWER AND SIGNAL IN SEPARATE CONDUITS.
 4. BUILDING IS DEFINED AS DRY AREA.
 5. (3) PORT VOICE/DATA MODULAR JACK, SURFACE MOUNTED.
 6. DO NOT REMOVE CONDUITS IF IT'S SHARED WITH EQUIPMENT THAT IS TO REMAIN.
 7. PROVIDE NEW MOTOR STARTER FOR SLUDGE THICKENER. ENCLOSE NEW STARTER, EXISTING ODS STARTER, AND FLOW METER CONTROLLER IN NEW ENCLOSURE SIMILAR TO THE THICKENED SLUDGE PUMPS ENCLOSURE.
 8. INSTALL (1) 3/4" RGS CONDUIT TO CONTROL BOX.



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BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

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**SONOMA VALLEY COUNTY
SANITATION DISTRICT**

SCALE: NTS DATE: 10/30/2012
DRAWN: ADF
REVIEWED: *Kent Coyne*

SVCSD BIOSOLIDS MANAGEMENT UPGRADE
EXISTING SLUDGE PRESS BUILDING
POWER & LIGHTING & SIGNAL PLAN

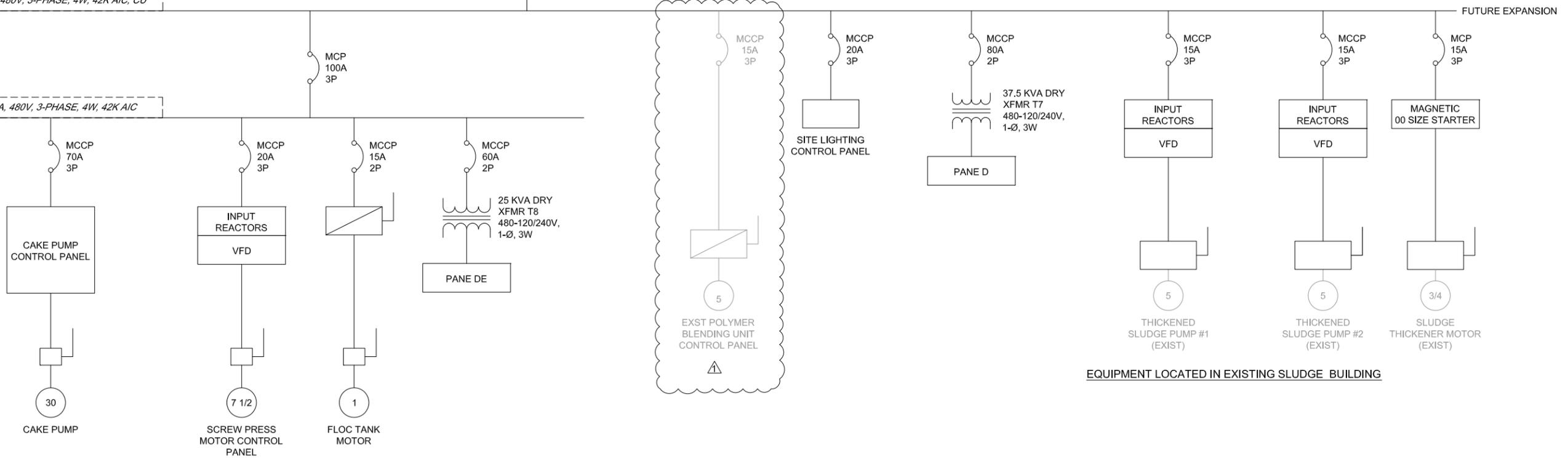
FILE NAME: 4051_E-05
CONTRACT NUMBER: 70-712-7#2

DRAWING NUMBER: E-05 SHEET 33 OF 49

EXISTING 200A CB IN SWBD 1 IN INFLUENT/EFFLUENT BLDG
 MCP 200A 3P
 DIGITAL CUSTOMER POWER METER. SEE NOTE 1

DISTRIBUTION PANEL 4, 200A, 480V, 3-PHASE, 4W, 42K AIC, CU

DISTRIBUTION PANEL 5, 100A, 480V, 3-PHASE, 4W, 42K AIC



EQUIPMENT LOCATED IN EXISTING SLUDGE BUILDING

		LOAD DATA			
		HP	KVA	KW	AMP
1	SCREW PRESS	7.5	9.1	5.6	11.0
3	THICKENED SLUDGE PUMP #1	5.0	6.31	3.73	7.6
4	THICKENED SLUDGE PUMP #2	5.0	6.31	3.73	7.6
5	CAKE PUMP	30.0	33.22	22.38	40
6	POLYMER BLENDING UNIT	0.5	1.33	0.4	1.6
7	FLOC TANK	1	1.01	0.75	15
10	SLUDGE THICKENER	0.75	1.33	0.56	1.6
11	PANEL "DE"		25		52.08
12	PANEL "D"		37.5		78.13
13	SITE LIGHTING				10
14					
TOTAL MCC4			121.14		201.71

ELECTRICAL LOAD STUDY - DISTRIBUTION PANEL

NOTES:
 1. PROVIDED CT CABINET AND 3-PHASE DIGITAL CUSTOMER METER ADJACENT TO DISTRIBUTION PANEL 4

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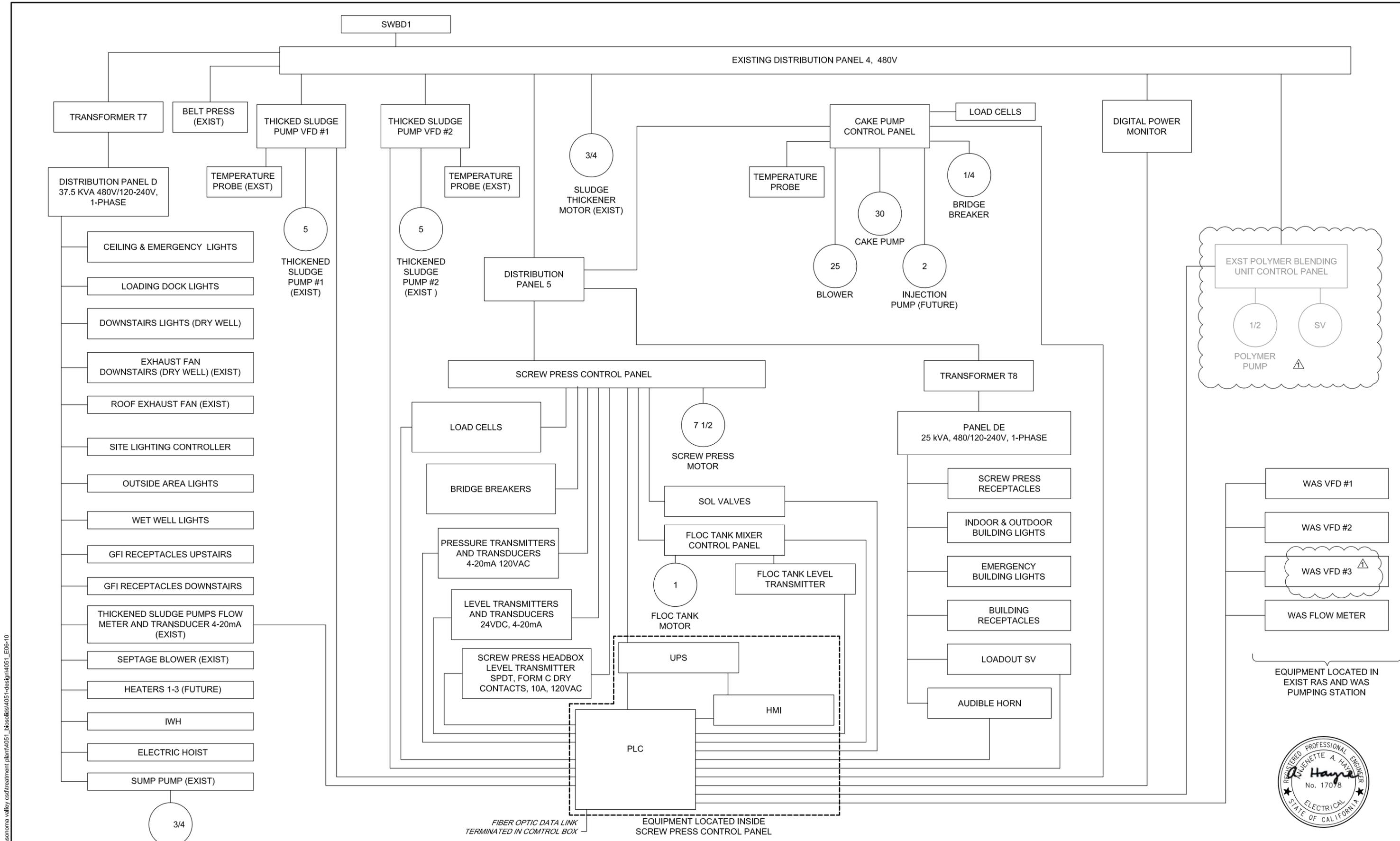


NO.	DATE	REVISION	BY
1	3 JAN 2013	ADDENDUM NO. 3	RS

SONOMA VALLEY COUNTY SANITATION DISTRICT

SCALE: AS SHOWN DATE: 10/30/2012
 DRAWN: ADF
 REVIEWED: [Signatures]

SVCSD BIOSOLIDS MANAGEMENT UPGRADE
 MCC SINGLE LINE DIAGRAM
 FILE NAME: 4051_E06-10 CONTRACT NUMBER: 70-712-7#2
 DRAWING NUMBER: E-06 SHEET 34 OF 49



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EQUIPMENT LOCATED IN EXIST SLUDGE PRESS BUILDING	
NO.	DATE
3	JAN 2013

ADDENDUM NO. 3		RS
NO.	DATE	BY

**SONOMA VALLEY COUNTY
SANITATION DISTRICT**

SCALE: AS SHOWN DATE: 10/30/2012
 DRAWN: ADF
 REVIEWED: *Kent* *Guy*

SVCSD BIOSOLIDS MANAGEMENT UPGRADE
ELECTRICAL BLOCK DIAGRAM

FILE NAME: 4051_E06-10 DRAWING NUMBER: E-07 SHEET 35 OF 49
 CONTRACT NUMBER: 70-712-7#2

TAG	CON-DUIT	CABLES	ORIGIN	TERMINATION	REMARKS
P94	2"	4 #1/0	DISTRIBUTION PANEL 4	DISTRIBUTION PANEL 5	POWER
P94-1	2"	-	EX SLUDGE PRESS BLDG	PRESS/LOAD-OUT BLDG	SPARE POWER TERMINATED OUTSIDE BLDGS IN PULL BOX
P95	EX	EX	DISTRIBUTION PANEL 4	TRANSFORMER T7	
P96	1"	3 #2 & #2G	TRANSFORMER T7	PANEL D	LOCATED IN EX SLUDGE PRESS BUILDING
P96-1	3/4"	2 #12	PANEL D	CEILING LIGHTS	
P96-2	3/4"	2 #12	PANEL D	LOADING DOCK LIGHTS	
P96-3	3/4"	2 #12	PANEL D	DOWNSTAIRS LIGHTS	
P96-4	3/4"	2 #10 & #10G	PANEL D	EXHAUST FAN DOWNSTAIRS	
P96-5	3/4"	2 #10 & #10G	PANEL D	ROOF EXHAUST FAN	
P96-6	3/4"	2 #12	PANEL D	OUTDOOR LIGHTS	
P96-7	3/4"	2 #12	PANEL D	WET WELL LIGHTS	
P96-8	3/4"	2 #12 & #12G	PANEL D	SUMP PUMP	
P96-9	3/4"	2 #12 & #12G	PANEL D	GFI RECEPTACLES UPSTAIRS	
P96-10	3/4"	2 #12 & #12G	PANEL D	GFI RECEPTACLES DOWNSTAIRS	
P96-11	3/4"	2 #12	PANEL D	EMERGENCY LIGHTS	
P96-12	3/4"	3 #8 & #8G	PANEL D	TANKLESS WATER HEATER	
P96-13	3/4"	2 #12 & #12G	PANEL D	CAMERA	
P96-14	3/4"	2 #12 & #12G	PANEL D	THICKENED SLUDGE PUMPS FLOW METER TRANSDUCER	
P96-15	3/4"	2 #8 & #8G	PANEL D	WALL HEATER # 1	
P96-16	3/4"	2 #8 & #8G	PANEL D	WALL HEATER # 2	
P96-17	3/4"	2 #8 & #8G	PANEL D	WALL HEATER # 3	
P96-18	3/4"	2 #12 & #12G	PANEL D	ELECTRIC HOIST	
P97	1"	2 #6 & #6G	PANEL 5	TRANSFORMER T8	
P98	1"	2 #6 & #6G	TRANSFORMER T8	PANEL DE	
P98-1	3/4"	2 #12	PANEL DE	PRESS/LOAD-OUT BLDG LIGHTS	
P98-2	3/4"	2 #12 & 1 #12G	PANEL DE	PRESS/LOAD-OUT BLDG RECEPTACLES	
P98-3	3/4"	2 #12	PANEL DE	PRESS/LOAD-OUT BLDG EMERGENCY LIGHTS	
P98-4	3/4"	2 #12 & 1 #12G	PANEL DE	CAMERA	
P98-5	3/4"	2 #12 & 1 #12G	PANEL DE	POLE AREA LIGHTS	
P111	1"	2 #10, 1 #10G	DISTRIBUTION PANEL 4	SITE LIGHTING CONTACTOR CONTROL PANEL	
P111B	1"	2 #10, 1 #10G	SITE LIGHTING CONTACTOR CONTROL PANEL	RELOCATED LIGHT POLE - GRIT CHAMBER AREA	
P111C	1"	2 #10, 1 #10G	SITE LIGHTING CONTACTOR CONTROL PANEL	EXIST LIGHT POLE - EX SLUDGE PRESS BUILDING	
P201	1"	3 #12	DISTRIBUTION PANEL 4	THICKENED SLUDGE PUMP # 1 VFD	POWER
P201A	1"	3 #12	THICKENED SLUDGE PUMP # 1 VFD	THICKENED SLUDGE PUMP # 1	REPLACE EXST WIRING
P202	1"	3 #12	DISTRIBUTION PANEL 4	THICKENED SLUDGE PUMP # 2 VFD	POWER
P202A	1"	3 #12	THICKENED SLUDGE PUMP # 2 VFD	THICKENED SLUDGE PUMP # 2	REPLACE EXST WIRING
P203	1 1/2"	3 #10	DISTRIBUTION PANEL 5	SCREW PRESS CONTROL PANEL	
P203A	1 1/2"	3 #10	SCREW PRESS CONTROL PANEL	SCREW PRESS MOTOR	
P203-2	3/4"	2 #12 & 1 #12G	SCREW PRESS CONTROL PANEL	SCREW PRESS PRESSURE TRANSMITTER	POWER
P203-3	3/4"	2 #12 & 1 #12G	SCREW PRESS CONTROL PANEL	SCREW PRESS HEADBOX LEVEL TRANSMITTER	POWER
P203-4	3/4"	2 #12 & 1 #12G	SCREW PRESS CONTROL PANEL	AUDIBLE ALARM/HORN	POWER
P203-5		2 #12 & 1 #12G	SCREW PRESS CONTROL PANEL	BATTERY CHARGER SYSTEM	
P203-5A		2 #12	BATTERY CHARGER SYSTEM	PLC	IN SREW PRESS CONTROL PANEL
P203-5B		2 #12	BATTERY CHARGER SYSTEM	HMI	IN SREW PRESS CONTROL PANEL
P203-6	3/4"	8 #12 & 4#12G	SCREW PRESS CONTROL PANEL	SCREW PRESS SOL VALVES	INCLUDES ONE SPARE
P203-7	3/4"	8 #12 & #12G	SCREW PRESS CONTROL PANEL	FLOCCULATION TANK MIXER DISC SWITCH & MOTOR	

TAG	CON-DUIT	CABLES	ORIGIN	TERMINATION	REMARKS
P206	1"	3 #4 & #4G	DISTRIBUTION PANEL 5	CAKE PUMP #1 VFD CONTROL PANEL & PUMP	
P206A	1"	3 #8 & #8G	CAKE PUMP #1 VFD CONTROL PANEL	CAKE PUMP #1 & DISCONNECT SWITCH	
P206B	1"	-	CAKE PUMP #1 VFD CONTROL PANEL	CAKE PUMP INJECTION PUMP (FUTURE)	SPARE
P207	1"	8 #12 & 4#12G	CAKE PUMP #1 VFD CONTROL PANEL	BRIDGE BREAKER MOTORS	POWER
P207-1	1"	MFG CABLE	CAKE PUMP #1 VFD CONTROL PANEL	LOAD CELLS	POWER
P208	1 1/4"	16 #12 & 8 #12	PANEL DE	LOAD OUT AREA SOVs	POWER
P209	1"	-	WEST END OF BUILDING	EAST END OF BUILDING	SPARE
P209-1	1"	-	WEST END OF BUILDING	EAST END OF BUILDING	SPARE
C201	1"	10 #16TSP + 2 SPARES	THICKENED SLUDGE PUMP # 1 VFD CONTROL PANEL	SCREW PRESS PLC	
C202	1"	10 #16TSP + 2 SPARES	THICKENED SLUDGE PUMP # 2 VFD CONTROL PANEL	SCREW PRESS PLC	
C203	3/4"	9 #18TSP + 2 SPARES	SCREW PRESS MOTOR THICKENED SLUDGE PUMPS FLOW METER	SCREW PRESS CONTROL PANEL	
C203-1	3/4"	1 #16TSP	SCREW PRESS PRESSURE TRANSMITTER	SCREW PRESS PLC	
C203-2	3/4"	MFG CABLE	SCREW PRESS HEADBOX LEVEL TRANSMITTER	SCREW PRESS PLC	
C203-3	3/4"	MFG CABLE	SCREW PRESS SOL VALVES FLOC TANK LEVEL TRANSMITTER	SCREW PRESS PLC	
C203-6	3/4"	6 #16TSP + 2 SPARES	SCREW PRESS PRESSURE TRANSMITTER	SCREW PRESS PLC	
C203-7	3/4"	MFG CABLE	SCREW PRESS HEADBOX LEVEL TRANSMITTER	SCREW PRESS PLC	
C203-8	1"	16 #16TSP + 4 SPARES	LOAD-OUT SOVs	SCREW PRESS PLC	
C-203-4	3/4"	#18TSP	AUDIBLE HORN	SCREW PRESS PLC	GENERAL SYSTEM ALARM
C204	1"	(2) 6 STRAND FO CABLES + 27 #14TSP + 2	EX SLUDGE PRESS BLDG	PRESS/LOAD-OUT BLDG	SEE NOTE 1
C204-1	2"	-	EX SLUDGE PRESS BLDG	PRESS/LOAD-OUT BLDG	SPARE
C204-2	2"	(2) 6 STRAND FO CABLES + 27 #14TSP + 2 #14TSP SPARES	EX RAS/WAS BLDG	CONTROL BOX	SEE NOTE 1
C205-1	3/4"	8 #16TSP + 2 SPARES	PBU CONTROL PANEL	SCREW PRESS PLC	
C206	3/4"	10 #18TSP + 2 SPARES	CAKE PUMP	CAKE PUMP VFD CONTROL PANEL	SIGNAL
C206-1	1"	10 #18TSP + 2 SPARES	CAKE PUMP VFD CONTROL PANEL	SCREW PRESS PLC	
C207	3/4"	10 #18TSP + 2 SPARES	THICKENED SLUDGE PUMP # 1 VFD CONTROL PANEL	THICKENED SLUDGE PUMP # 1	PRESSURE & TEMPERATURE & SPEED
C208	3/4"	10 #18TSP + 2 SPARES	THICKENED SLUDGE PUMP # 2 VFD CONTROL PANEL	THICKENED SLUDGE PUMP # 2	PRESSURE & TEMPERATURE & SPEED
C209	1"	-	WEST END OF BUILDING	EAST END OF BUILDING	SPARE
C209-1	1"	-	WEST END OF BUILDING	EAST END OF BUILDING	SPARE
C210	3/4"	CAT6	CAMERA	CAMERA CONTROL BOX	SIGNAL
C211	2"	CAT6	CONTROL B	SCREW PRESS CONTROL PANEL	PRESS/LOAD OUT BLDG.

NOTES:
1. TERMINATE THE FIBER OPTIC CABLES IN THE CONTROL BOXES INSIDE THE BUILDINGS AND TEST PER CONTRACT DOCUMENTS.

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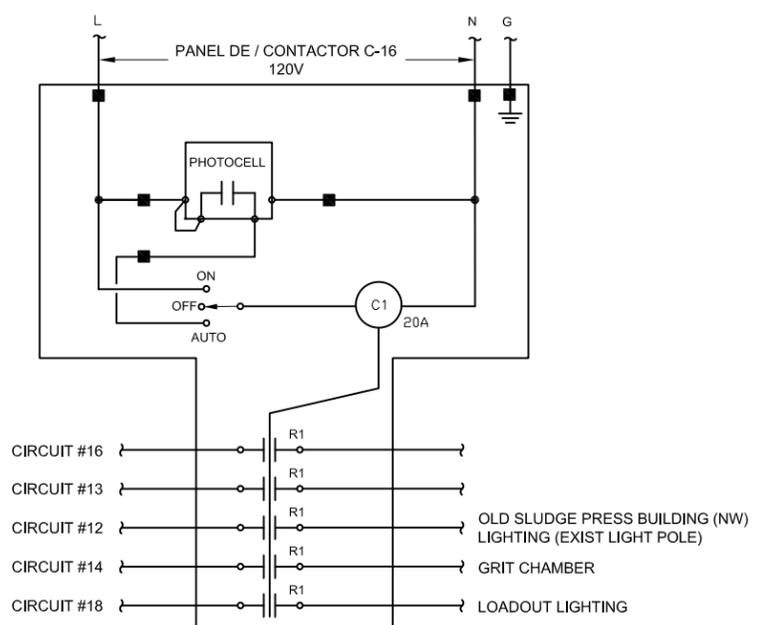
SONOMA VALLEY COUNTY
SANITATION DISTRICT

SCALE: AS SHOWN
DATE: 10/30/2012
DRAWN: ADF
REVIEWED: *Kent Gylfe*

SVCSD BIOSOLIDS MANAGEMENT UPGRADE
CONDUIT & CABLE SCHEDULE
FILE NAME: 4051_E06-10
CONTRACT NUMBER: 70-712-7#2
DRAWING NUMBER: E-08
SHEET 36 OF 49

LOCATION		Ex Sludge Bldg		Panelboard #		4	
Voltage	480	Main Amp	200				
Phase	3	AIC Rating	42,000				
Conductors	4						

No.	Load	A (VA)	B (VA)	C (VA)	LTG	REC	CB	POLE	No.	Load	A (VA)	B (VA)	C (VA)	LTG	REC	CB	POLE	
1	MAIN						200	3	2	BELT PRESS						60	3	
3									4									
5									6									
7	PANEL 5	39433					100	3	8	TRANSFORMER T7	10170					80	2	
9			39433						10				10236					
11					14443				12									
13	THICKENED SLUDGE PUMP 1	2103					15	3	14	AREA LITES				x		20	3	
15			2103						16						x			
17					2103				18						x			
19	THICKENED SLUDGE PUMP 2	2103					15	3	20	SPARE				x		15	3	
21			2103						22						x			
23					2103				24						x			
25	POLYMER BLENDING UNIT	443					15	3	26	SLUDGE THICKENER	443					15	3	
27				443					28				443					
29					443				30					443				
Subtotal		44093	44093	19093					Subtotal		10613	443	10679					
Total load per phase (VA)		A-Phase 54706		B-Phase 44536		C-Phase 29772		Total Connected Load 129015 VA		Amps per Phase 155								



EXTERIOR CONTROL PANEL, NEMA 12, WALL MOUNT IN OLD SLUDGE BUILDING. SEE E-05 AND CONTRACT SPECIFICATIONS.

SITE LIGHTING CONTROL DIAGRAM

NTS

FIXTURE SCHEDULE					
TYPE	DESCRIPTION/MFG AND MODEL	VOLTAGE	NO. LAMPS/LAMP TYPE	MOUNTING	REMARKS
A	PENDENT MOUNTED FLUORESCENT/LITHONIA VSL-2-32-120-GEB (OR APPROVED EQUAL)	120	2-32W T8 FLUORESCENT	PENDENT/STRUCTURE	NOT USED
B	INDUSTRIAL FLUORESCENT/HOLOPHANE HB24 3 54T5HO N1X20 NLWG MVOLT 1/3 GE 10PS LP 841	120	3-54 T5HO FLUORESCENT	CEILING SURFACE MOUNT	CORROSION RESISTANT AND MOUNT APPROX. 10'-0" ABOVE FINISHED FLOOR
C	DARK BRONZE WALLPAK/RAB WPLED52 (OR APPROVED EQUAL)	120	1-52 LED WATTS LAMP	WALL/CAOPY	WET LOCATION
D	HI BAY, METAL HALIDE/LITHONIA TFL-100S-TA2-120-LP1 (OR APPROVED EQUAL)	120	1-400W LAMP	CEILING SURFACE MOUNT	18' MOUNTING HEIGHT IN EXIST DRY WELL
E	SELF-LUMINOUS EXIT LIGHT WITH TRITIUM FILL GAS TUBES/LITHONIA DS1R20AA (SINGLE FACE); LITHONIA DS2R20AA (DOUBLE FACE) (OR APPROVED EQUAL)	-	TRITIUM FILL GAS TUBES	TOP (CEILING)	NOT USED
F	EMERGENCY LIGHT/LITHONIA ELU3X-WL-H1212 (OR APPROVED EQUAL)	120	2-12W, 12V HALOGEN	WALL	
H	HIGH PRESSURE AREA LIGHTING RAB ALED13 (OR APPROVED EQUAL)	240	1-13 LED WATTS LAMP	10'-0" POLE	SINGLE FIXTURE
I	HIGH PRESSURE AREA LIGHTING RAB ALED13 (OR APPROVED EQUAL)	240	1-13 LED WATTS LAMP	10'-0" POLE	DUAL FIXTURE

NO. 3		DATE 3 JAN 2013	REVISION ADDENDUM NO. 3	BY RS	SCALE: AS SHOWN DATE: 10/30/2012 DRAWN: ADF REVIEWED: <i>Kent Gyle</i>		SVCSD BIOSOLIDS MANAGEMENT UPGRADE PANELBOARD AND LIGHTING FIXTURE SCHEDULE	
SONOMA VALLEY COUNTY SANITATION DISTRICT					FILE NAME: 4051_E06-10 CONTRACT NUMBER: 70-712-7#2		DRAWING NUMBER: E-10 SHEET 38 OF 49	



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DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



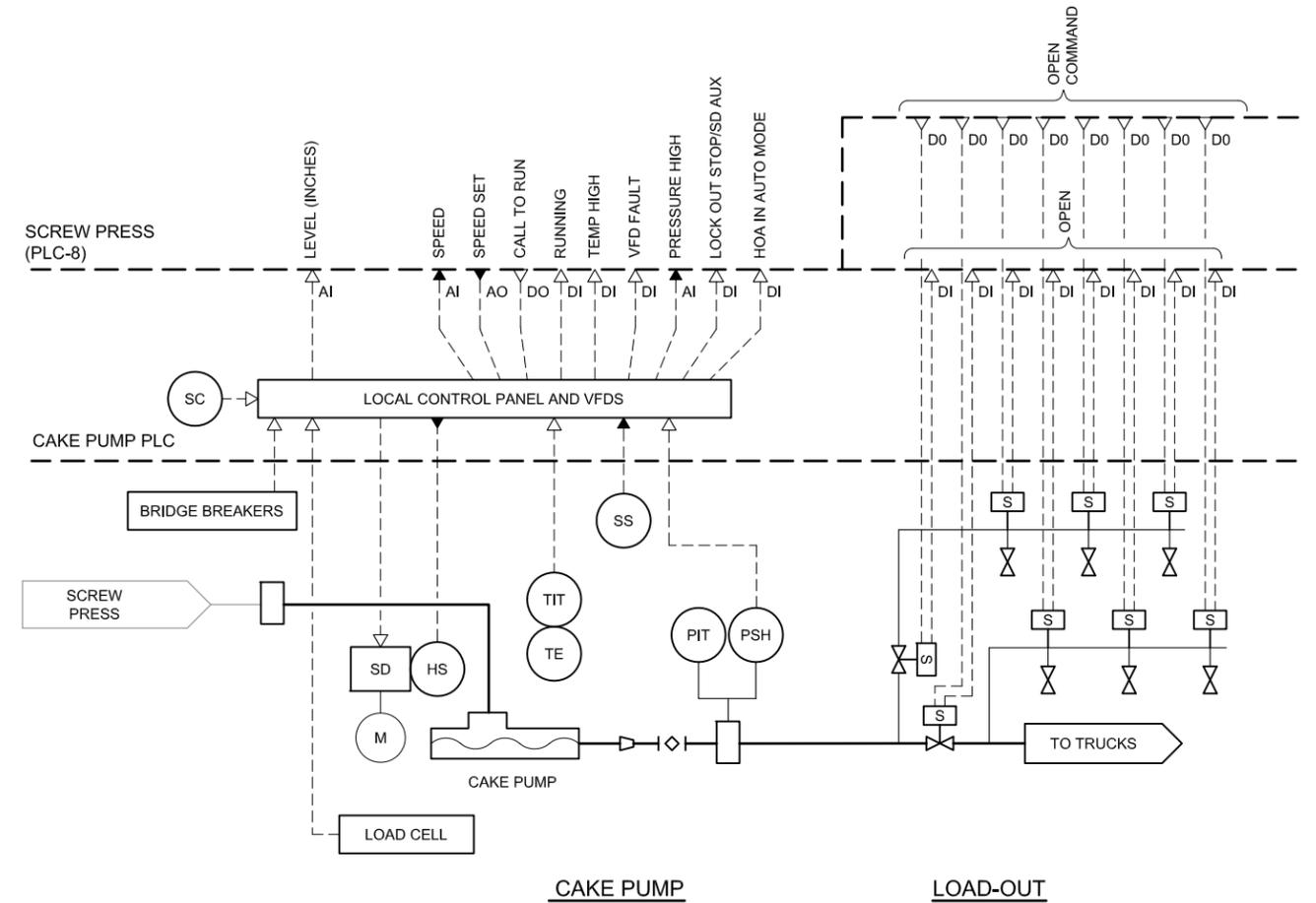
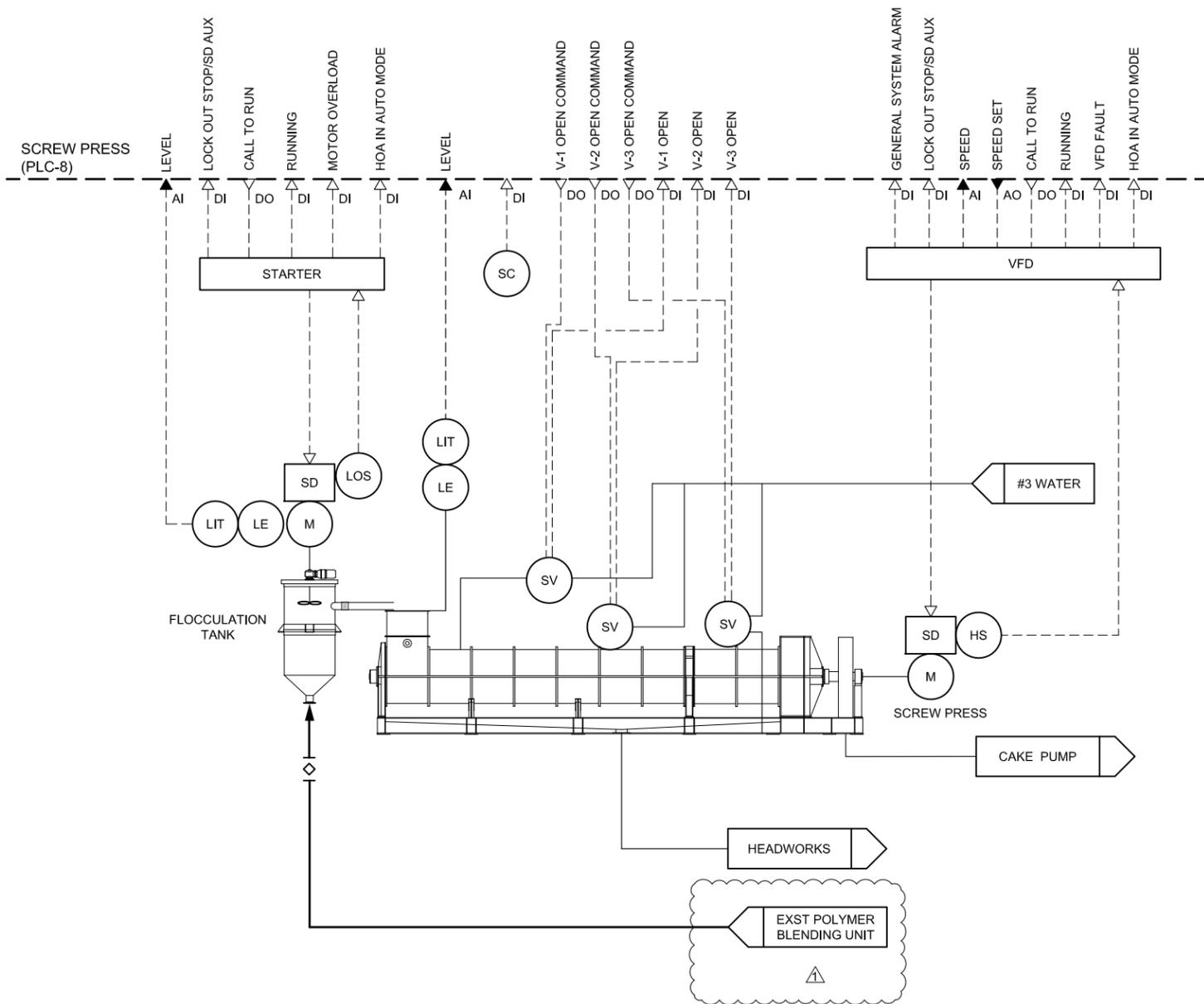
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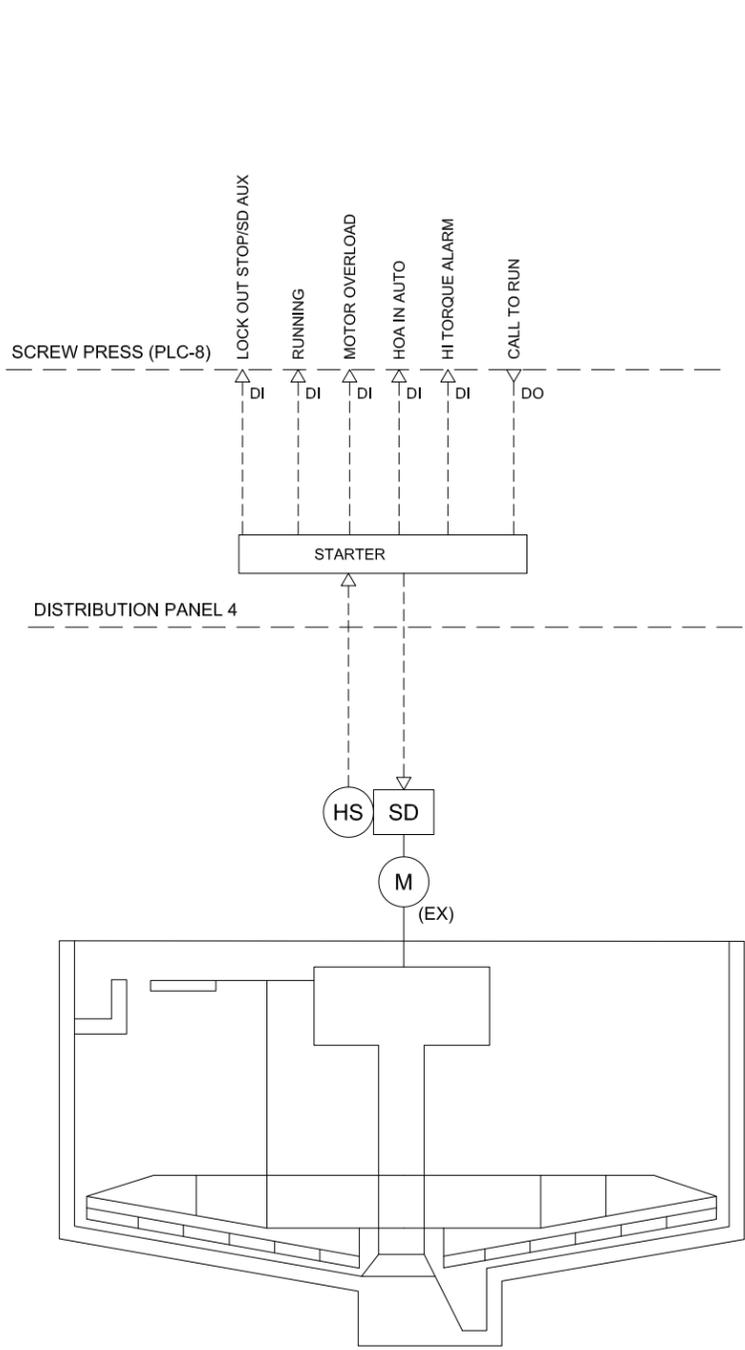
SCALE:	AS SHOWN	DATE:	10/30/2012
DRAWN:	ADF	REVIEWED:	<i>Kent Gyle</i>

SVCSD BIOSOLIDS MANAGEMENT UPGRADE
PROCESS AND INSTRUMENTATION DIAGRAM
SCREW PRESS SYSTEM

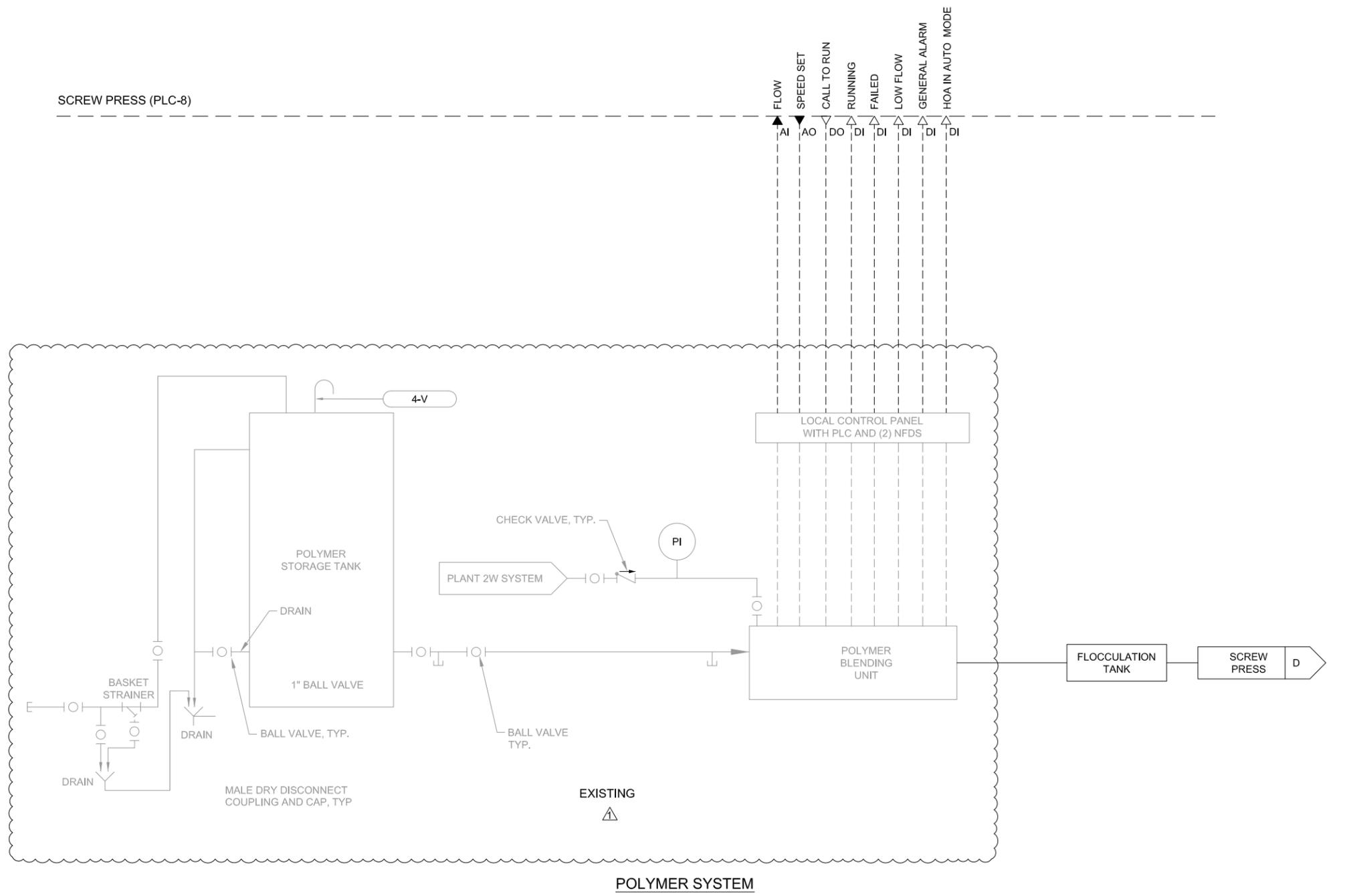
FILE NAME:	4051_INSTRUMENTAION-3	DRAWING NUMBER:	I-04	SHEET 46 OF 49
CONTRACT NUMBER:	70-712-7#2			



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SLUDGE THICKENER



POLYMER SYSTEM

BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH.
ADJUST SCALE ACCORDINGLY



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SONOMA VALLEY COUNTY
SANITATION DISTRICT

SCALE:	AS SHOWN	DATE:	10/30/2012
DRAWN:	ADF		
REVIEWED:	<i>Kent</i>	<i>Gytha</i>	

SVCSD BIOSOLIDS MANAGEMENT UPGRADE PROCESS AND INSTRUMENTATION DIAGRAM POLYMER SYSTEM AND SLUDGE THICKENER			
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