

## **ADDENDUM NO. 1**

**PROJECT:** Three Mile Lane Pump Station No. 3  
**J.O.:** 11110199  
**OWNER:** City of McMinnville, Oregon  
**LOCATION:** McMinnville, Oregon  
**FROM:** GHD, Inc.  
**DATE:** September 22, 2016

### **ITEM I – PROJECT PLANS**

#### **Plan Sheet C3**

1. Two additional Key Notes (Nos. 33 and 34) have been added and an additional line added in plan view to delineate the alignment of the new underground electrical conduit and service. The new line has been “clouded”. A copy of the revised sheet is included as an attachment to this addendum.

#### **Plan Sheets C11 and C14**

1. The depth of base rock under all manholes shall be a minimum of 2-feet.

#### **Plan Sheet C10**

1. The depth of base rock under the concrete slab supporting the generator shall be a minimum of 1-foot.

#### **Plan Sheet M2**

1. The depth of base rock under the valve vault shall be a minimum of 2-feet.

#### **Plan Sheets C3-C5, EC1, M1 and E3**

2. The plan views on multiple sheets including those noted in the title of this comment, show a foot print for the “Electrical Control Structure” that scales to approximately 10’x10’. The plan view outlines on these or similar drawings, for this item only, should be considered approximate. The required foot print of the concrete pad to support the structure is shown in detail 3/C7 and is to provide a minimum of 1’=0” additional width beyond the outside walls or eaves of the Pre-Fabricated Fiberglass Shelter. Technical Specification Section 13 34 24 *Prefabricated Fiberglass Shelter*, identifies a building size to be 6’ x 6’ x 7.5 (W x L x H) at the eaves or back wall.

#### **Plan Sheets E2, E3 and E4**

Several edits were completed to these sheets including Panel, and Conduit & Conductor Schedules. The changes have been clouded on the revised plan sheets. A copy of the revised sheets are included as an attachment to this addendum.

## ITEM II – TECHNICAL SPECIFICATIONS

### SECTION 32 11 23 AGGREGATE BASE COURSE

1. Replace the table in section 2.01.A.1 with the following information:

All Base Aggregate shall comply with section 02630 – Base Aggregate of the Oregon Standard Specifications for Construction, 2015 for the size aggregate called out on the drawings including the following:

Sieve Size Passing	1" - 0 Aggregate Base Course	3/4" - 0 Aggregate Base Course
1-1/2"	100	
1"	90 – 100	100
3/4"		90 – 100
1/2"	55 - 75	
3/8"		55- 75
1/4"	40 – 55	40 – 60
No. 10	(1)	(1)

(1) Of the fraction passing the 1/4 inch sieve, 40% to 60% shall pass No. 10 sieve.

## ITEM III – APPENDIX

### Contractors Submittal Form

1. **Contractors Submittal Form**

The original bid documents include a reference to the "Contractors Submittal Form" in the Appendix cover sheet but the form was not included. A copy of this form is included as an attachment to this addendum.

## ITEM IV – BID QUESTIONS AND RESPONSE – As of 9/22/16

Questions are in bold text and answers are in italics following the question.

**1) Please provide drawing of location, or provide distance/length of a) Utility Distribution Line, to the Utility Transformer (we are to install a 4" raceway), and b) Utility Transformer, to the Meter Base/Service Main Disconnect (we are to install a 3" raceway). Also, we do not see the Utility contact information on the drawings,**

*See attached Drawing C3 – Site Piping Plan (9/21/16) which indicates general location of new power connection and approximate alignment of new underground utility service. The Contractor shall coordinate the final alignment with construction of other proposed improvements including other underground utilities. All work shall be completed in accordance with the requirements and standard materials and construction methods of the McMinnville Power and Light (Utility Service Provider).*

**2) What/how are existing overhead power and communication lines to be temporarily re-routed?**

*The configuration, sequencing and maintenance of temporary power and communications is the responsibility of the Contractor in coordination with the utility service provider.*

**3) There is no ground grid shown on the drawings. What is desired? How will/should 26 05 26, 3.04 apply to this?**

*The grounding electrode system is expected to be constructed strictly to Code and to pass the grounding system tests as specified in technical specification 26 05 26, section 3.04.*

**4) A ground bus bar is mentioned in the specs. Nothing is shown on the drawings. What is desired?**

*Ground bus bars are required in all panelboards with neutrals.*

**5) What are the existing available sources (and ampacity), for temporary construction power, that will not impact the completion of this project?**

*This is for the bidders to determine during the job walk and per Owner's instructions and in coordination with the requirements of McMinnville Power and Light.*

**6) Is there an existing/in service example of the stainless steel disconnect "cage" that we could look at? The drawings do not give adequate detail, if you are hoping to match something you already have at another location.**

*There is an example here: <http://romtecutilities.com/best-practices-for-safe-pump-cable-disconnects/>*

**7) Could we ask/suggest for your review, the VE possibility of installing this stainless steel disconnect "cage" on the east side of the new building. By relocating the meter base a few feet north, the "cage" could be installed on the east wall, eliminating the need to build a standalone concrete block support structure. This would not lengthen the cable trench to the wet well, would reduce conduit and cable lengths, it would save significant dollars and it might neaten up the area. Your thoughts?**

*The City will consider but may not allow alternative design configurations once the project has been awarded. Project should bid as indicated on the bid plans.*

**8) The transformers and conduit are called out on the Conduit & Conductor Schedule sheet E-4 but not shown on the plans.**

*Sheet C-3 has been modified to include additional notes and a line indicating the location and alignment of the new electrical service and conduit. A copy of the revised sheet is included as an attachment to this addendum.*

**9) On the demo prints it shows removing the telephone line. However on your one line it is showing a modem in your local control panel. Is this going to be WIFI or is there another phone line coming in?**

*No phone lines will be extended to the new pump station.*

**10) Sturgeon will be bidding on this project. I was wondering what your anticipated start and end dates were?**

*It is the intent of the City to start the project as soon as they can complete the contract paperwork, (usually takes a couple weeks with City Council approval and contracts). The contract has a 90 calendar days to complete after Notice to Proceed.*

**ATTACHMENTS:**

*Contractors Submittal Form*

*Sheet C3 (Modified 9/22/16)*

*Sheets E2, E3 and E4 (Modified 9/22/16)*

*Prebid Attendee List (9/20/16)*



PANEL NAME: "4E1"		VOLTAGE: 480/277		MOUNTING: SURFACE		NOTES:													
MAINS RATING: 100		PHASE: 3		LOCATION: WALL															
BUS RATING: 100		A		10000															
CKT NO.	USE	DESCRIPTION	BKR SIZE	CKT KVA	CKT AMPS	WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE	CKT AMPS	CKT KVA	BKR SIZE	DESCRIPTION	USE	CKT NO.	
1	H	UNIT HEATER	20	2.00	7.22	12	20	0.10	A	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	2	
2	H	UNIT HEATER	20	2.00	7.22	12	20	0.10	B	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	4	
3	O	TX-2 TRANSFORMER MINI PWR CTR	30	10.00	36.10	12	10	0.26	A	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	6	
4	O	TX-2 TRANSFORMER MINI PWR CTR	30	10.00	36.10	12	10	0.26	B	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	8	
5	O	TX-2 TRANSFORMER MINI PWR CTR	30	10.00	36.10	12	10	0.26	A	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	10	
6	O	TX-2 TRANSFORMER MINI PWR CTR	30	10.00	36.10	12	10	0.26	B	0.50	50	8	34.66	9.60	60	LOCAL CONTROL PANEL	P	12	
CONNECTED KVA		DEMAND KVA		DEMAND AMPS		USE LEGEND		VOLTAGE DROP CALCULATION		VOLTAGE DROP IS BASED ON THE IEEE RED BOOK AND 2011 NEC CHAPTER 9 TABLE 9 FORMULA:		ASSUMPTIONS:		POWER FACTOR		CONDUIT TYPE		WIRE MATERIAL	
21.6		21.6		78.0		ID		VARIABLE BY LOAD TYPE		VARIABLE BY LOAD TYPE		RGS		RGS		CU		CU	
11.6		11.6		41.9		H													
19.6		19.6		70.8		L													
						M													
						R													
						P													
						O													
						OTHER													

**1 PANEL 4E1 SCHEDULE**  
SCALE: NONE

PANEL NAME: "2E1"		VOLTAGE: 240/120		MOUNTING: SURFACE		NOTES:													
MAINS RATING: 50		PHASE: 1		LOCATION: EAST WALL OF ENCLOSURE															
BUS RATING: 50		A		10000															
CKT NO.	USE	DESCRIPTION	BKR SIZE	CKT KVA	CKT AMPS	WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE	CKT AMPS	CKT KVA	BKR SIZE	DESCRIPTION	USE	CKT NO.	
1	R	LIGHT POLE RECEPTACLE	20	0.18	1.50	12	50	0.10	A	0.23	50	12	3.33	0.40	20	CONTROL ROOM LIGHTS	L	2	
3	L	LIGHT POLE WITH PHOTOCELL	20	0.14	1.17	12	20	0.03	B	0.72	30	12	3.33	0.40	20	CONTROL ROOM LIGHTS	L	4	
5	L	EXTERIOR LIGHTS	20	0.30	2.50	12	50	0.17	B	0.36	30	12	8.33	1.00	20	GENERATOR BATTERY CHARGER	O	6	
7	A								A									8	
9	A								B									10	
11	A								A									12	
CONNECTED KVA		DEMAND KVA		DEMAND AMPS		USE LEGEND		VOLTAGE DROP CALCULATION		VOLTAGE DROP IS BASED ON THE IEEE RED BOOK AND 2011 NEC CHAPTER 9 TABLE 9 FORMULA:		ASSUMPTIONS:		POWER FACTOR		CONDUIT TYPE		WIRE MATERIAL	
1.9		2.1		7.1		H		VARIABLE BY LOAD TYPE		VARIABLE BY LOAD TYPE		RGS		RGS		CU		CU	
0.7		0.7		2.6		L													
						M													
						R													
						P													
						O													
						OTHER													

**2 PANEL 2E1 SCHEDULE**  
SCALE: NONE

CKT NO.	FROM:	TO:	CONDUCTORS	RACEWAY	NOTES
1	NOT USED	NOT USED		N/A	
2	(E) UTILITY TRANSFORMER	(N) METER BASE / SERVICE DISC.	BY UTILITY	3"	277/480V 3P 4W
3	(N) METER MAIN / SERVICE DISC.	(N) ATS	3-#2 XHHW P 1-#2 XHHW N #0 XHHW G	1-1/2"	277/480V 3P 4W
4	(N) ATS	(N) GENERATOR	#4 XHHW C #2 XHHW G	3/4"	CONTROL
5	(N) ATS	(N) GENERATOR	3-#2 XHHW P 1-#2 XHHW N 1-#0 XHHW G	1-1/2"	277/480V 3P 4W
6	(N) ATS	(N) LOCAL CONTROL PANEL	#4 XHHW C #2 XHHW G	3/4"	CONTROL
7	(N) ATS	(N) PANEL 4E1	3-#2 XHHW P 1-#2 XHHW N #1-#0 XHHW G	1-1/2"	277/480V 3P 4W
8	(N) PANEL 4E1	(N) LOCAL CONTROL PANEL	3-#6 THWN P 1-#6 THWN N 1-#10 THWN G	1-1/2"	277/480V 3P 4W
9	(N) PANEL 4E1	(N) TRANSFORMER TX-2 MINI PWR CTR	2-#10 THWN P 1-#12 THWN G	3/4"	480V 1P 2W

**3 CONDUIT & CONDUCTOR SCHEDULE**  
SCALE: NONE

CKT NO.	FROM:	TO:	CONDUCTORS	RACEWAY	NOTES
10	(N) PANEL 2E1	(N) BATTERY CHARGER	2-#12 THWN C 1-#12 THWN G	N/A	120V 1P 2W
11	(N) PANEL 4E1	(N) UNIT HEATER	2-#12 THWN C 1-#12 THWN G	3/4"	480V 1P 2W
12	(N) PANEL 2E1	(N) POLE LIGHT + RECEPTACLE	2-#12 XHHW C 1-#12 XHHW G	3/4"	120V 1P 2W
13	(N) PANEL 2E1	(N) CONTROL BUILDING LIGHTING	2-#12 THWN C 1-#12 THWN G	1-1/2"	120V 1P 2W
14	(N) PANEL 2E1	(N) CONTROL BUILDING RECEPTACLES	2-#12 THWN C 1-#12 THWN G	1-1/2"	120V 1P 2W
15	(N) LOCAL CONTROL PANEL	(N) LSH-11 FLOAT SWITCH	2-#12 THWN C 1-#12 THWN G	3/4"	CONTROL
16	(N) LOCAL CONTROL PANEL	(N) PRESSURE TRANSDUCER	1-#16 TSP C	3/4"	CONTROL
17	(N) LOCAL CONTROL PANEL	(N) PUMP #1	3-#8 XHHW P 1-#10 XHHW G 2-#14 XHHW C	1-1/2"	480V 3P 3W & CONTROL
18	(N) LOCAL CONTROL PANEL	(N) PUMP #2	3-#8 XHHW P 1-#10 XHHW G 2-#14 XHHW C	1-1/2"	480V 3P 3W & CONTROL

NOTE:  
1. COORDINATE REUSE OF EXISTING SERVICE WITH McMinnville Power and Light. EXTEND SERVICE FROM EXISTING METER AND DISCONNECT TO ELECTRICAL CONTROL STRUCTURE. SEE DRAWING C3.

Client: CITY OF MCMINNVILLE, OREGON  
Project: THREE MILE LANE PUMP STATION NO. 3  
Title: ELECTRICAL PANEL AND CIRCUIT SCHEDULES  
Contract No. 11110199  
Drawing No: E4  
Sheet: 27 of 29  
Rev: E4

Designer: JP  
Design Check: JC  
Approved: DWV  
Date: 07/18/16  
Scale: NONE  
Notes: This Drawing shall not be used for Construction unless Signed and Sealed For Construction

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RESPECTED PROFESSIONAL ENGINEER  
JAMES E. COOK  
EXPIRES: 12/31/2017  
9/22/16

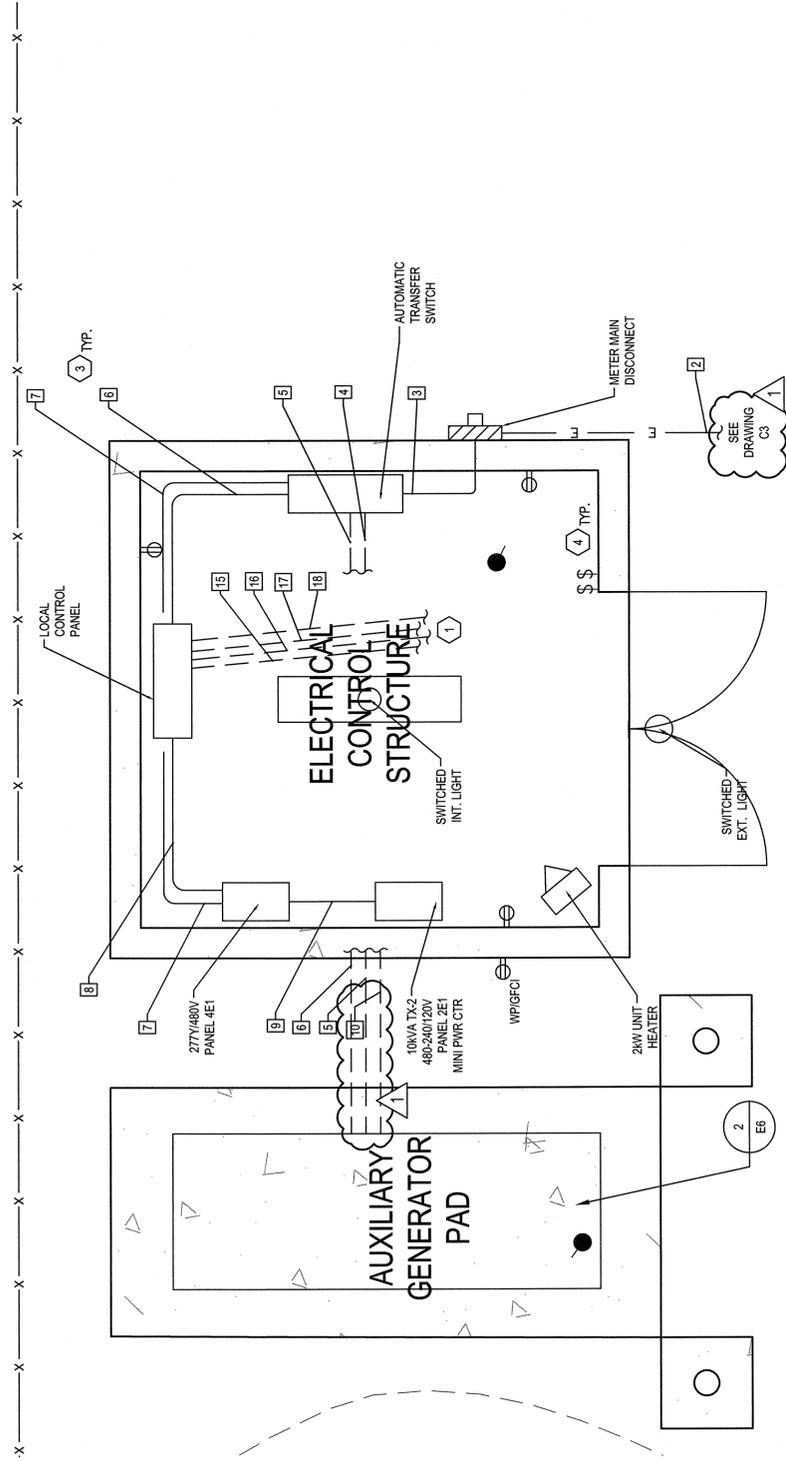
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Electrical Power Routing Update  
JAC  
09/19/16  
Project Director  
Date

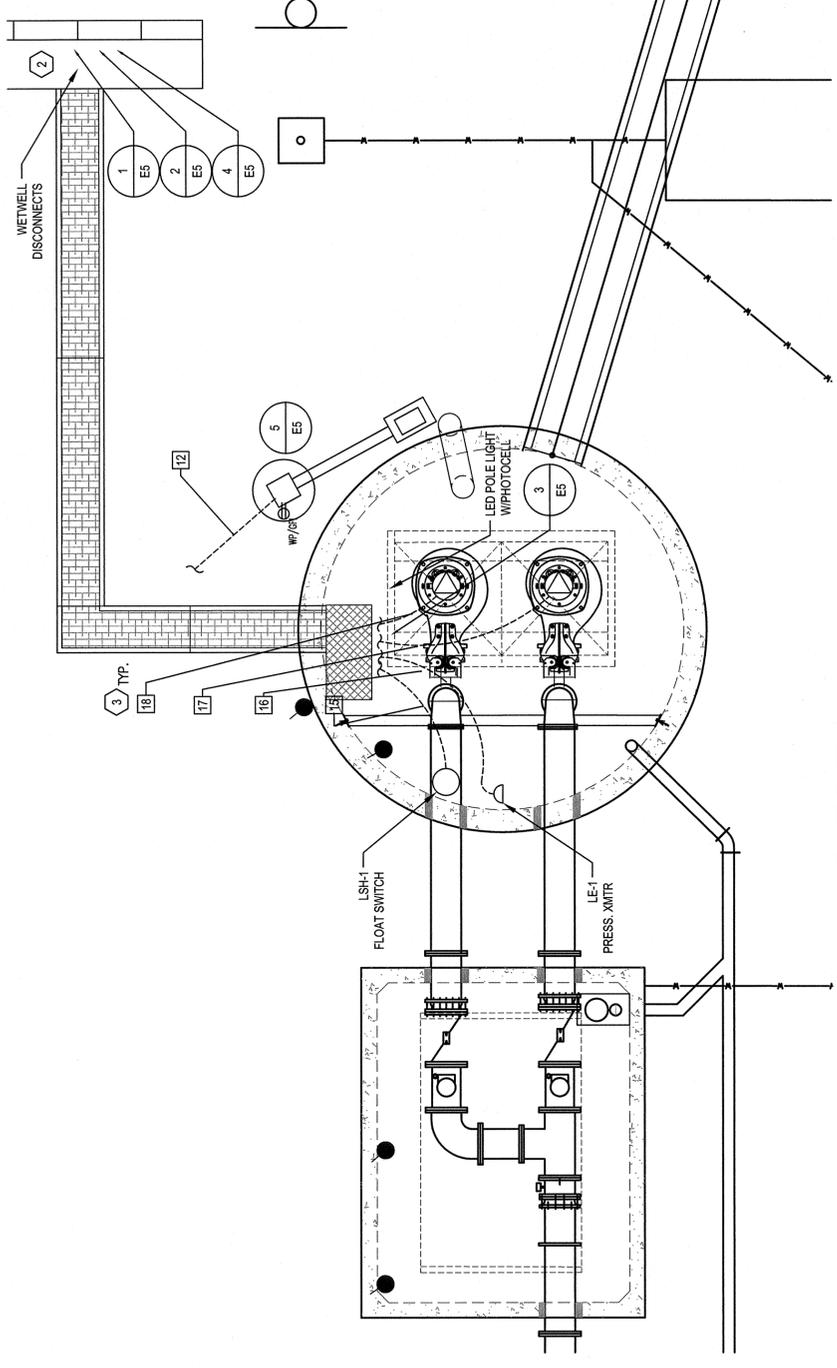
Plot Date: 22 September 2016 - 10:52 AM  
Printed By: Jim Cook  
Caf File No.: G:\111111\10199\COM\Three Mile Lane Pump Station\05-CAD\Sheets\1110199\_27\_E4.dwg

**SHEET KEYNOTES**

1. WETWELL POWER AND CONTROL CABLES TO DISCONNECTS.
2. POWER AND CONTROL CABLES THROUGH TRENCH TO WETWELL.
3. LEADERS INDICATING CONDUIT AND CONDUCTOR SCHEDULE ENTRIES.
4. 3/4" POWER CONDUITS NOT SHOWN FOR CLARITY. REFER TO ONE-LINE DIAGRAM.



**1 ELECTRICAL SITE PLAN**  
SCALE: 1" = 2'



**2 ELECTRICAL WETWELL PLAN**  
SCALE: 1" = 2'

<p><b>1 ELECTRICAL POWER ROUTING UPDATE</b></p>		<p><b>JAC</b></p>	<p><b>09/19/16</b></p>
<p>No</p>	<p>Revision</p>	<p>Note: * indicates signatures on original issue of drawing or last revision of drawing</p>	<p>Date</p>

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**REGISTERED PROFESSIONAL ENGINEER**  
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JAMES E. COOK, P.E.  
EXPIRES: 12/31/2017

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<p>Client <b>CITY OF MCMINNVILLE, OREGON</b></p>	<p>Designer DMW</p>
<p>Project <b>THREE MILE LANE PUMP STATION NO. 3</b></p>	<p>Design Check DMW</p>
<p>Title <b>ELECTRICAL SITE PLAN</b></p>	<p>Approved (Project Director) DMW</p>
<p>Contract No. 11110199</p>	<p>Date 07/18/16</p>
<p>Originals <b>Ansi D</b></p>	<p>Scale 1"=2'</p>
<p>Drawing No. <b>E3</b></p>	<p>Scale 1"=2'</p>
<p>Sheet <b>26</b> of <b>29</b></p>	<p>Revision <b>Rev:</b></p>



CITY OF McMinnville, Oregon  
THREE MILE LANE PUMP STATION NO. 3  
Project No. 2015-13

**SUBMITTAL REVIEW COMMENTS**

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
Submittal No.: \_\_\_\_\_  
Spec. Section: \_\_\_\_\_

Reviewer: \_\_\_\_\_

**SUBMITTAL REVIEW ACTION**

REVIEW IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT REQUIREMENTS NOT SPECIFICALLY INDICATED ON THIS SUBMITTAL.

	NO EXCEPTIONS TAKEN
	AMEND AND RESUBMIT AS NOTED BELOW
	MAKE CORRECTIONS NOTED
	REJECTED - - SEE COMMENTS BELOW

**COMMENTS:**

By: \_\_\_\_\_  
(Reviewer's Signature) (Date)

THREE MILE LANE PUMP STATION NO. 3  
 PRE-BID CONFERENCE  
 SIGN-IN SHEET  
 20-Sep-16



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