RESOLUTION NO. R14-35

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN CHANGE ORDER NO. 2 WITH WILLIAMS BROTHERS CONSTRUCTION FOR THE WASTEWATER TREATMENT PLANT PROJECT IN THE AMOUNT OF \$17,264.42.

WHEREAS, the City Council of the City of Laurel previously authorized the Mayor to approve a contract with Williams Brothers Construction for the Wastewater Treatment Plant Upgrade Project through Resolution No. R13-38 on June 18, 2013; and

WHEREAS, the original contract price was \$6,369,000.00 to complete the project; and

WHEREAS, previously approved Change Order No. 1 to the contract with Williams Brothers Construction to reduce the cost of the project by \$4,528.85; and

WHEREAS, additional work and compensation is required to finish the project as described in the attached Change Order; and

WHEREAS, Great West Engineering and City Staff reviewed Change Order No. 2 and determined that it was correct, reasonable and necessary to complete the project and recommend the Council's approval of the same.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Laurel, Montana, that the Mayor is authorized to sign Change Order No. 2 a copy of which is attached, to increase the contract amount by \$17,264.42 for a total contract price of \$6,381,735.57.

	Introduced at	a regular mee	ting of the	City Counci	l on June	17, 2014,	by Counc	il Member
I	Eaton	·						
2014.	PASSED and	APPROVED	by the City	Council of	the City	of Laurel	this 17 th da	y of June,

APPROVED by the Mayor this 17th day of June, 2014.

CITY OF LAUREL

Mark A. Mace, Mayor

Shirley Ewan, Clerk/Treasurer

Approved as to form:

ATTEST:

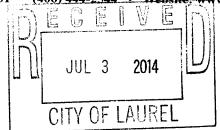
Sam S. Painter, Civil City Attorney

Tracy Stone-Manning, Director

P. O. Box 200901 • Helena, MT 59620-0901 (406) 444-2544

July 1, 2014

Honorable Mark Mace, Mayor City of Laurel P.O. Box 10 Laurel, MT 59044



Re:

City of Laurel, Change Order No. 2 Approval, Biological Nutrient Removal Upgrade and Expansion of the Laurel Wastewater Treatment Plant (WWTP), Phase 2A2, WPCSRF No. C301241

Dear Mayor Mace:

Change Order No. 2 for the above-referenced project has been reviewed. Therefore, by the authority provided in the Montana Water Quality Act and Title VI of the Clean Water Act, the Montana Department of Environmental Quality hereby approves the change order.

The current contract amount has been increased by \$17,264.42 through this change order to \$6,381,735.57. Of this amount, \$6,381,735.57 remains loan-eligible. The approved substantial completion contract time has been increased by 47 days and is now set at 497 days.

Change Order No. 2 addresses (1) recaulking of weirs on the secondary clarifiers, (2) additional controls on the discharge side of the thickened sludge rotary lobe pumps, (3) increased grating thickness over the ultraviolet (UV) channel, (4) raising the grade on the sidewalk to the UV building, (5) additional time and materials to complete the tie-in of the new SL line from the thickener building, (6) an additional 120V circuit in the UV building, and (7) provision of Chemline guage isolators for the sodium hypochlorite switches.

The enclosed original approved Change Order No. 2 should be kept secure with the other project contract documents for future reference by personnel from this office during inspection activities.

Michele Marsh, P.E. **Environmental Engineer**

Technical & Financial Assistance Bureau

Encl: Approved Change Order No. 2

Chad Hanson, PE, Great West Engineering CC:

Kurt Markegard, Public Works Director, City of Laurel

Date of Issuance: May 22, 2014	Effective Date	::			
Project: WWTP Improvements – BNR Upgra	ade	Owner: City of Laurel, MT			
Contract:		Date of Contract: July 7, 2013			
Contractor: Williams Brother Construction L	LC	Engineer's Project No.: 2-07128, TO 16			
The Contract Documents are modified as fo	llows upon execution	on of this Change Order:			
See attached summary of changes to work.					
Attachments (list documents supporting cha Summary of changes to work and cost estimate	O ,				
CHANGE IN CONTRACT PRICE:	СН	ANGE IN CONTRACT TIMES:			
Original Contract Price: \$ 6,369,000.00	Substantial con	t Times: Working Calendar days impletion (date): November 5, 2014 payment (date): February 3, 2015			
Increase from previously approved Change Orders No. 1 to No. 1:	Increase from previously approved Change Orders No. 1 to No. 1:				
\$ (4,528.85)	Substantial completion (days): 0 Ready for final payment (days): 0				
Contract Price prior to this Change Order:	Contract Times prior to this Change Order: Substantial completion (date): November 5, 2014				
\$ <u>6,364,471.15</u>	Ready for final	payment (date): February 3, 2015			
Increase of this Change Order:	Increase of this C Substantial con	hange Order: upletion (days): <u>47</u>			
\$ <u>17,264.42</u>	Ready for final payment (days): 0				
Contract Price incorporating this Change		rith all approved Change Orders: appletion (date): December 22, 2014			
\$ <u>6,381,735.57</u>	Ready for final	payment (date): March 22, 2015			
By: Montana Department of Environments of Envi	Descriptions of Environment of the ELCC C-941 Change Order	Date: Date:			

CHANGE ORDER No. 2 SUMMARY

	Change to Work		Change to Intract Cost
2-A	The Owner requested a quote to recaulk the weirs on the secondary clarifiers.	\$	1,879.51
2-B	Additional controls on the discharge side of the rotary lobe pumps for the thickened sludge are necessary to prevent the pumps from running dry.	\$	7,872.46
2-C	Increase grating over UV channel from 1½" to 2" thickness to meet loading requirements.	\$	945.00
2-D	The Owner requested the grade on the sidewalk to the UV building to be raised and agreed to pay for the work based upon time and materials.	\$	1,357.77
2-E	The existing SL pipe alignment is sinuous and crossed over the sewer line (labeled "S" on the plans) requiring additional time and materials to complete the tie in of the new SL line from the thickener building.	\$	3,669.03
2-F	RFI 15: An additional 120V circuit will be required in the UV building to reuse the existing effluent flow meter.	\$	615.00
2-G	RFI 16: Chemline gauge isolators need to be provided for the sodium hypochlorite switches.	\$	765.00
	Subtotal: Change Order 2	\$	17,103.77
roca Picinal II	Total Change Orders	s į	12,574.92

Change Order

No. <u>2</u>

Date of Issuance: May 22, 2014	Effective Date	::				
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Contract:		Date of Contract: July 7, 2013				
Contractor: Williams Brother Construction I	LLC	Engineer's Project No.: 2-07128, TO 16				
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Contract Price incorporating this Change		rith all approved Change Orders: upletion (date): December 22, 2014				
\$ <u>6,381,735.57</u>	Ready for final	payment (date): March 22, 2015				
RECOMMENDED: By: Kngineer (Authorized Signature) Date: Object	Owner (Authorized Signale: 4/17/2	ACCEPTED: By: Just ature) Contractor (Authorized Signature) Date: 5-28-14				
		Date:				
Dunnand by the Engineers Is at Contrast Dec	EJCDC C-941 Change Order	sed by the Construction Specifications Institute.				

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2-G	RFI 16: Chemline gauge isolators need to be provided for the sodium hypochlorite switches.	\$	765.00
	. Subtotali Chango Ordor 2	\$	Tropics.
	Total Change Orders.	\$	12,785.57



115 N Broadway, Suite 500 Billings, MT 59101

PHONE: 406.652.5000 FAX: 406.248.1363 www.greatwesteng.com

LETTER OF TRANSMITTAL

To:	Kurt	Markegard	1		Date:	5-29-	14		
Of:	City o	of Laurel			Project:	Laurel	WWTP		
Address:	PO B	3ox 10			Project	No.: 2-	07128 TO 16		
	Laure	el, MT 59	044		Subject:	Chang	je Order #2		
Phone:					Fax:				
We transmi	it:	☐ As req	uested	☐ Attache	ed	***	☐ Under sepa	arate co	ver
Via:		☐ Mail	☐ e-Mail		Courier		Overnight delive	ery	☐ Fax
# of Copie	s De	escription							
3	Ch	nange Orde	r #2	*					
		- 07.00							
Our action:		□ R	eviewed	☐ Not ap	proved		Approved	☐ Sec	e remarks
Action requ	ested:	ested: Review and comment			Approve / Accept				
			ake correctior	ns noted			Revise and resul	bmit	
		☐ Fo	or your inform	ation and us	e				
Remarks: Please sign all three change orders where indicated. Retain the change order with the attachment and return the other two change orders back to us. If you have any questions, please let us know. Thank you,									
From: Ile	ene Ne	udick			e-mail a	address:	ineudick@grea	atweste	eng.com
Phone: 40	06-652-	5000			cc:	Project f	ile,		

If enclosures are not as noted, please notify the sender immediately.

LAUREL WWTP Seal Secondary Clarifier Baffles

BWC

Date:	3-25-14	

Materials Description		Unit	Quantity	Cost (NWP)
Sikaflex 1A	\$ 4.25	ea	10	\$42.50
Sikaflex 2C SL	\$55.00	gal	5	\$275.00
Labor				
Description		Unit	Quantity	Cost
Pressure wash and wire brush and caulk				
Carpenter	\$43.32	þr	14	\$606.48
Laborer	\$34.46	hr	14	\$482.44
Equipment				
Description		Unit	Quantity	Cos
Pressure Washer	\$25.00	hr	8	\$200.00
Sub- Contractors				
Description		Unit	Quantity	Cos

Subtotal Markup TOTAL

\$1,606.42 \$273.09 \$1,879.61





Sikaflex®-1a

One part polyurethane, elastomeric sealant/adhesive

DESCRIPTION

Sikaflex-1a is a premium-grade, highperformance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 25; Canadian standard CAN/CGSB 19.13-M87.

WHERE TO USE

- Designed for all types of joints where maximum depth of sealant will not exceed ½ in.
- Excellent for small joints and fillets, windows, door frames, reglets, flashing, and many construction adhesive applications.
- ▲ Suitable for vertical and horizontal joints; readily placeable at 40 F.
- Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion.

ADVANTAGES

- Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment.
- ▲ Fast tack-free and final cure times.
- High elasticity cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- ▲ Stress relaxation.
- Excellent adhesion bonds to most construction materials without a primer.
- Excellent resistance to aging, weathering.
- Proven in tough climates around the world.
- ▲ USDA-approved.
- ▲ Odorless, non-staining.
- ▲ Jet fuel resistant.
- NSF-approved for potable water contact.
- Urethane-based; suggested by EPA for radon reduction.
- Paintable with water-, oil- and rubberbased paints.
- ▲ Capable of ±25% joint movement.
- Sealant, Waterproofing and Restoration Institute (SWRI) validated.

COVERAGE

10.3 fl. oz. cartridge seals 12.4 lineal ft. of $\frac{1}{2} \times \frac{1}{4}$ in. joint.

20 fl. oz. uni-pac sausage seals 24 lineal ft. of $\frac{1}{2}$ x $\frac{1}{4}$ in. joint.

PACKAGING

Disposable 10.3 fl. oz., moisture-proof composite cartridges, 24/case; and unipac sausages, 20 fl. oz., 20/carton.

TYPICAL DATA FOR SIKAFLEX-1a (Material and curing conditions @ 73F (23C) and 50% R.H.)								
SHELFLIFE	10.3 fl.oz. cartridges 20 fl.oz. uni-pac sausages	15 months 15 months						
STORAGE CONDITIONS	Store at 40-95F (4-35C). Corusing.	ndition material to 65-75F before						
COLORS		um gray, limestone, black, dark architectural colors on request.						
APPLICATION TEMPERATURE	40 to 100F. Sealant should be of its anticipated movement.	e installed when joint is at midrange						
SERVICERANGE	-40 to 170F							
CURING RATE	Tack-free time Tack-free to touch Final cure	4 hours (TT-S-00230C) 3 hours 4 to 7 days						
TEAR STRENGTH	(ASTM D-624)	50 lb./in.						
SHORE A HARDNE 21 day	ESS (ASTM D-2240) 40±5							
TENSILE PROPER 21 day	TIES (ASTM D-412) Tensile Stress Elongation at Break Modulus of Elasticity 25% 50% 100%	200 psi (1.37MPa) 500% 35 psi (0.24 MPa) 60 psi (0.41 MPa) 85 psi (0.59 MPa)						
ADHESION IN PEE Substrate Concrete Aluminum Glass	Peel Strength Adho 20 lb 20 lb 20 lb 20 lb	() esion Loss 0% 0% 0%						
WEATHERING RESISTANCE								
CHEMICAL Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.								

HOW TO USE

SURFACEPREPARATION

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

PRIMING

Priming is not usually necessary. Most substrates only require priming if testing indi-

cates a need or where sealant will be subjected to water immersion after cure. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

APPLICATION

Recommended application temperatures: 40-100 F. For cold weather application, condition units at approximately 70 F; remove prior to using.

For best performance, Sikaflex-1a should be gunned into joint when joint slot is at midpoint of its designed expansion and contraction. Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment.

Avoid overlapping of sealant to eliminate entrapment of air. Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

For use in horizontal joints in traffic areas, the absolute minimum depth of the sealant is 1/2 in. and closed cell backer rod is recommended. Tool as necessary, dry or with clean water.

LIMITATIONS

- Allow 1-week cure at standard conditions when using Sikaflex-1a in total water immersion situations and prior to
- ▲ When overcoating with water, oil and rubber based paints, compatibility and adhesion testing is essential.
- ▲ Avoid exposure to high levels of chlorine. (Maximum continuous level is 5ppm of chlorine.)

- A Maximum depth of sealant must not exceed ½ in.; minimum depth is ¼ in.
- ▲ Maximum expansion and contraction should not exceed 25% of average joint
- ▲ Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- ▲ Do not apply when moisture-vaportransmission condition exists from the substrate as this can cause bubbling within the sealant.
- ▲ Use opened cartridges and uni-pac sausages the same day.
- ▲ When applying sealant, avoid air-en-
- Since system is moisture-cured, permit sufficient exposure to air.
- ▲ White color tends to yellow slightly when exposed to ultra-violet rays.
- ▲ The ultimate performance of Sikaflex-1a depends on good joint design and proper application with joint surfaces properly prepared.
- ▲ The depth of sealant in horizontal joints subject to traffic is 1/2 in.
- ▲ Do not tool with detergent or soap solutions.

CAUTION

COMBUSTIBLE

Keep away from open flames and high heat. Contains xylene; avoid breathing vapors. Use with adequate ventilation.

IRRITANT

Avoid skin and eye contact. Use of NIOSH/ MSHA approved organic vapor respirator, safety goggles, and chemical-resistant gloves recommended. Remove contaminated clothing and shoes.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician. Wash clothing before re-use. Discard contaminated shoes.

CLEAN UP

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

Linear Feet of Sealant per Gallon

Depth

	Inches	1/4	1/2	3/4	1	11/4	11/2
	1/4	308.0					
Width	1/2	154.0	77.0				
	3/4	102.7	51.3	34.2			
-	1	77.0	38.5	25.7	19.3		
ı	11/4	61.6	30.8	20.5	15.4	12.3	
-	11/2	51.3	25.7	17.1	12.8	10.3	8.6

Product Code 431. Sika and Sikaflex are registered trade-marks. Made in USA. Printed in USA.Aug., 2001.

KEEP CONTAINER TIGHTLY CLOSED NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants its products to be free from manufacturing defects and to meet Sika's current published properties when applied in accordance with Sika directions and tested in accordance with ASTM and Sika Standards. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product and excludes labor or the cost of labor. Any claim for breach of this warranty must be brought within one year of the date of purchase.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF MERCHANTIBILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. SIKA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND, RESULTING FROM ANY CLAIM OF BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE OR ANY LEGAL THEORY. SIKA ASSUMES NO LIABILITY FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANOTHER'S PATENT.



Visit our website at www.sikausa.com 1-800-933-SIKA NATIONWIDE Regional Information and Sales Centers

For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Corregidora, Queretaro C.P. 76920 A.P. 136 Phone: 52 42 25 0122 Fax: 52 42 25 0537

Sikaflex®-2c SL

Two-component, self-leveling, polyurethane elastomeric sealant

Description	Sikaflex-2c SL is a 2-component, premium-grade, polyurethane-based, elastomeric sealant. It is principally a chemical cure in a <u>self-leveling</u> consistency. Meets ASTM C-920, Type M, Grade P, Class 25, use T, NT, M, G, A, O, I and Federal Specification TT-S-00227E, Type 1, Class A.
Where to use	 Intended for use in all properly designed working joints with a minimum depth of 1/4 inch. Ideal for horizontal applications. Placeable at temperatures as low as 40°F. Adheres to most substrates commonly found in construction. Submerged conditions, such as canal and reservoir joints.
Advantages	 True self-leveling properties. Capable of ±50% joint movement. Chemical cure allows the sealant to be placed in joints exceeding 1/2 in. in depth. High elasticity with a tough, durable, flexible consistency. Exceptional cut and tear resistance. Exceptional adhesion to most substrates without priming. Available in 40 architectural colors. Color uniformity assured via Color-pak system. Available in pre-pigmented Limestone Gray (no Color-pak needed). Self-leveling consistency, easy to apply in horizontal joints. Easy to mix. Paintable with water-, oil-, and rubber-base paints. Jet fuel resistant. USDA approved. No color-pak needed in pre-pigmented Limestone.
Coverage	1 gal. yields 231 cu. in. or 154 lin. ft. of a 1/2 in. X 1/4 in. joint.
Packaging	1.5 gal. unit. 3 gal. units. Color-pak is purchased separately. Limestone Gray color available pre-pigmented.

Typical Data (Material and curing conditions 73°F (23°C) and 50% R.H.)

One year in original, unopened containers. Shelf life

Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F

Storage Conditions

before using.

A wide range of architectural colors are available. Special colors avail-Colors

able on request.

40° to 100°F, ambient and substrate temperatures. Sealant should **Application Temperature**

be installed when joint is at mid-range of its anticipated movement.

-40° to 170°F (-40°-75°C). Service Range

Curing Rate (ASTM C-679)

6-8 hrs. Tack-free Time Final Cure 3 days

Application Life TT-S-00227E 4 hrs.

Tear Strength **ASTM D-624** 100 lb./in.

Shore A Hardness ASTM D-2240 40 ± 5

Tensile Properties (ASTM D412) 175 psi Tensile Strength at Break Tensile Elongation 650% 100 psi 100% Modulus

Adhesion in Peel (Fed Spec. TT-S-00227E)

% Adhesion Loss Peel Strength Substrate 30 lb. Zero Concrete

Excellent Weathering Resistance

Chemical Resistance Good resistance to water, diluted acids, diluted alkalines, and residential sewage. Consult Technical Service for specific data.

Linear Feet of Sealant per Gallon How to Use Surface Preparation All joint-wall surfaces must be clean, sound, Depth and frost-free. Joint walls must be free of 1/4 1/2 3/4 11/4 Inches 11/2 oils, grease, curing compound residues, and any other foreign matter that might prevent 1/4 308.0 bond. Ideally this should be accomplished by 1/2 154.0 77.0 mechanical means. Width 3/4 34 2 102.7 51.3 Bond breaker tape or backer rod must be used in bottom of joint to prevent bond. 1 77.0 38.5 25.7 19.3 Priming Priming is typically not necessary. Most 11/4 61.6 30.8 20.5 15.4 12.3 substrates only require priming if sealant will 51.3 25.7 17.1 12.8 10.3 11/2 8.6 be subjected to water immersion after cure. Testing should be done, however, on questionable substrates, to determine if priming is needed. Consult Technical Service or Sikaflex Primer Technical Data Sheet for additional information on priming. Mixing Pour entire contents of Component 'B' into pail of Component 'A'. Add entire contents of Color-pak into pail and mix with a low-speed drill (400-600 rpm) and Sikaflex paddle. * Mix for 3-5 minutes to achieve a uniform color and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. Color-pak must be used with tint base. Note: When mixing 3 gal. unit, two containers of Component B and two color-paks must be used. *For pre-pigmented Limestone base, just mix with low speed drill and Sikaflex paddle (no Color-pak needed). Application Recommended application temperatures 40°-100°F. Pre-conditioning units to approximately 70°F is necessary when working at extremes. Move pre-conditioned units to work areas just prior to application. Apply sealant only to clean, sound, dry, and frost-free substrates. Sikaflex-2c should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place, pour or extrude the SL grade in one direction and allow it to flow and level as necessary. If extruding, load mixed sealant directly into bulk gun or use follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps air. Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio. Limitations The ultimate performance of Sikaflex-2c, depends on good joint design and proper application. Minimum depth in working joint is 1/4 in. Maximum expansion and contraction should not exceed 50% of average joint width. Do not cure in the presence of curing silicones. Avoid contact with alcohol and other solvent cleaners during cure. Allow 3 day cure before subjecting sealant to total water immersion. Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm). Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant. = Avoid over-mixing sealant. Light color shades tend to yellow over time when exposed to ultraviolet rays. When overcoating; an on-site test is recommended to determine actual compatibility. The minimum depth of sealant in horizontal joints subject to traffic is 1/2 inch. Do not tool with detergent or soap solution. Caution Component 'A'; Irritant - Avoid contact. Product is a skin, respiratory and eye irritant. Use of safety goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if PELs are exceeded. Use with adequate ventilation. Component 'B'; Combustible; Sensitizer; Irritant - Contains Xylene. Keep away from heat, sparks and open flame. Use with adequate ventilation. Product is a respiratory and skin sensitizer. Avoid contact. Product is an eye, skin, and respiratory irritant. Use of safety goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if PELs are exceeded. In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty First Aid of water for at least 15 minutes; contact physician. For respiratory problems, remove to fresh air. Wash clothing before re-use. Discard contaminated shoes. Clean Up Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations. KEEP CONTAINER TIGHTLY CLOSED KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product explusive of labor or cost of labor.

for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER

Visit our website at www.sikaconstruction.com

1-800-933-SIKA NATIONWIDE

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Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

R

601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408 Sika and Sikafex are registered trademarks. Made in USA. Printed in USA.

LAUREL WWTP

Pressure Meters for Pumps P-4401 & P-4402

BWC

Date: 3-26-14

Materials Description	Unit	Quantity	Cost (NWP)
Service saddle,nipple,ball valve	\$105.00	2	\$210.00

Labor				
Description		Unit	Quantity	Cost
Drill pipe and install saddle and valve	Fitter	\$55.65	4	\$222.60

Equipment Description	Unit	Quantity	Cost
Misc.	\$15.00	1	\$15.00

Description		Unit	Quantity	Cost
CEI	\$6,281.00	LS	1	\$6,281.00
Subtotal				\$6,728.60
Markup				\$1,143.86
TOTAL				\$7,872.46





To:

Chad Hanson, PE, Great West Engineering

Cc:

Neil DeZort, Great West Engineering, Scott Ritter, Ritter Engineering

From:

Ben Johnson and Mark Maxwell

Date:

February 18, 2014

Subject: City of Laurel WWTP BNR Upgrade Project - Proposed Work Change Directive

Tetra Tech would like to propose a change in the Work for the instrumentation and control at the Thickened Sludge Pumps. In order to provide additional protection for the rotary lobe pumps to prevent them from running dry, Tetra Tech proposes to install capacitative pressure meters on the discharge side of both pumps. The meters will be per paragraph 2.6.A. of Section 13400 of the specifications. The meters will communicate with the plant SCADA system, and will include low level and high level alarms. Additional SCADA programming will be required to provide the alarms and pressure indication. The meters will have to be field wired as well.

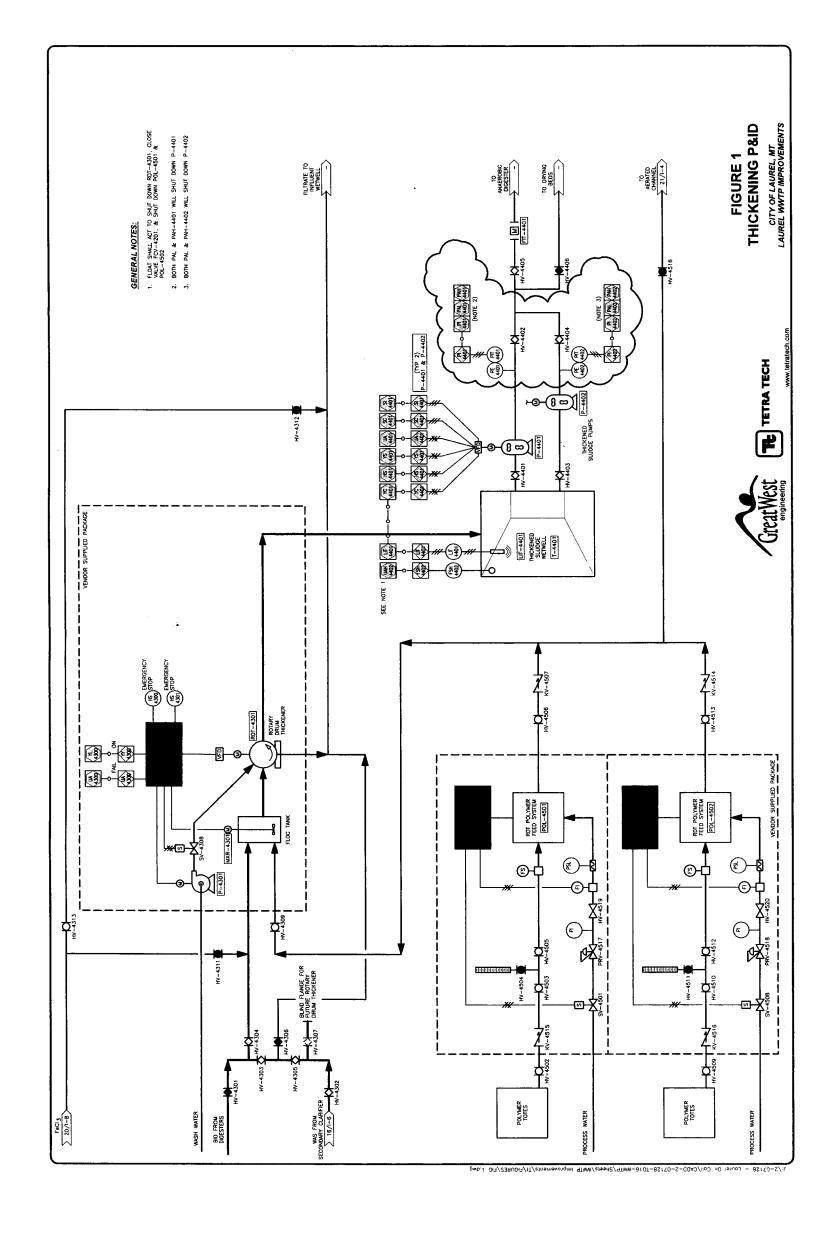
The changes are indicated in the bubbled area of the attached Figure 1. Figure 1 is a modification or Sheet I-9 from the original construction documents.

Please let me know if you need additional information.

Tetra Tech IMR

Tel (369) 1134 991 Fax (3154) 5-338 tetratech.com

F78 Section 2 Section 18 Control CO SECURE





Mueller Brass Valves

Northwest Pipe Fittings Inc.



Check Valves

In-line & Angle Check Valves Straight Dual Check Valves (H-14243)

- FIP inlet
- FIP outlet



Part # Mfg #	Description	Price
2103155 H14243	3/4"	52.62
2103157 H14243	1"	90.48

Angle Dual Check Valves (H-14244)

- Meter swivel nut inlet
- FIP outlet



Part # Mfg #	Description	Price
2103160 H14244	5/8" x 3/4" x 3/4"	50.90

Service Saddles

H13000 Series Bronze Service Saddles

- For PVC plastic pipe
- Two piece
- For use on cast iron OD PVC pipe made to ANSI/AWWA C900 standard
- NSF 61 certified

Mueller Service Saddles for AWWA C900 PVC Pipe







Part #	Mfg #	Description	Price
2125332	H13440	4" x 3/4" CC	70.28
2125334	H13440	4" x 1" CC	70.28
2125335	H13441	6" x 3/4" CC	96.02
2125336	H13441	6" x 1" CC	96.02
2125338	H13441	6" x 1-1/2" CC	181.12
2125339	H13441	6" x 2" CC	181.12
2125340	H13442	8" x 3/4" CC	134.36
2125342	H13442	8" x 1" CC	134.36
2125344	H13442	8" x 1-1/2" CC	206.72
2125346	H13442	8" x 2" CC	206.72
2125360	H13444	12" x 3/4" CC	391.24
2125361	H13444	12" x 1" CC	391.24
2125363	H13444	12" x 1-1/2" CC	391.24
2125364	H13444	12" x 2" CC	391.24
2125910	H13491	6" x 3/4" IPS	96.02
2120910	113 4 91	0 X 3/4" IPS	96.0

Mueller Service Saddles for Iron Pipe Size PVC Pipe





Part #	Mfg #	Description	Price
2124804	H13420	2" x 1" CC	41.46
2124934	H13425	3" x 1" CC	54.70
2125120	H13428	4" x 3/4" CC	64.34
2125138	H13428	4" x 1" CC	66.72
2125140	H13428	4" x 1-1/2" CC	138.58
2125242	! H13431	6" x 3/4" CC	96.02
2125402	H13470	2" x 1" IPS	41.46
2125444	H13475	3" x 1" IPS	54.70
2125604	H13478	4" x 1" IPS	64.34

BR2B Series Bronze Double Strap Service Saddles

- For use on A-C pipe, cast iron or ductile iron pipe and cast iron OD PVC pipe
- 200 psig maximum working pressure
- Brass body, flattened silicon bronze straps
- Meets all applicable parts of ANSI/AWWA C800
- NSF 61 certified

Mueller Service Saddles with AWWA taper thread



Part#	Mfg #	Description	Price
2128966	BR 2 B 0474 CC	4" x 3/4" CC	173.10
2128974	BR 2 B 0474 CC	4" x 1" CC	173.10
2128990	BR 2 B 0474 CC	4" x 1-1/2" CC	201.88
2129006	BR 2 B 0474 CC	4" x 2" CC	219.86
2129208	BR 2 B 0684 CC	6" x 3/4" CC	203.84
2129216	BR 2-B 0684 CC	6" x 1" CC	203.84
2129232	BR 2 B0684CC150	6" x 1-1/2" CC	233.08
2129240	BR 2 B0684CC200	6" x 2" CC	256.24
2129388	BR 2 B0899CC075	8" x 3/4" CC	252.38
2129396	BR 2 B0899CC100	8" x 1" CC	252.38
2129400	BR 2 B0899CC125	8" x 1-1/4" CC	265.66
2129418	BR 2 B0899CC150	8" x 1-1/2" CC	265.66
2129426	BR 2 B0899CC200	8" x 2" CC	289.56
2129564	BR 2 B1104CC075	10" x 3/4" CC	312.66
2129572	BR 2 B1104CC100	10" x 1" CC	312.66
2129598	BR 2 B1104CC150	10" x 1-1/2" CC	343.36
2129602	BR 2 B1104CC200	10" x 2" CC	368.90
2129694	BR 2 B1314CC075	12" x 3/4" CC	366.00
2129708	BR 2 B1314CC100	12" x 1" CC	366.00
2129724	BR 2 B1314CC150	12" x 1-1/2" CC	412.82

Billings - Belgrade - Butte - Great Falls - Kalispell, MT



Gate & Ball Valves

Apolio Bronze Bail Valves

Apollo 94A-100/200 Series Brz 2-Pc Ball Valves

- Full port thru 2"
- Rated 600 psig CWP and 150 psig SWP
- Machined solid chrome-plated ball
- Multi-fill PTFE seats & seals
- Adjustable packing
- · Blow-out proof stem design
- · American made bronze castings
- Vacuum service to 29" Hg

Standard Design - Threaded FNPT

Part #	Mfg #	Size	Price
2511105	94A-101-01	1/4"	8.50
2511108	94A-102-01	3/8"	7.98
2511112	94A-103-01	1/2"	9.60
2511115	94A-104-01	3/4"	15.38
2511118	94A-105-01	1"	23.26
2511121	94A-106-01	1-1/4"	36.40
2511124	94A-107-01	1-1/2"	50.86
2511127	94A-108-01	2"	71.44
2511130	94A-109-01	2-1/2"	185.32
2511133	94A-100-01	3"	221.50
2511136	94A-10A-01	4"	440.46

Standard Design - Sweat

Part #	Mfg #	Size	Price
2511143	94A-203-01	1/2"	9.04
2511149	94A-204-01	3/4"	14.16
2511152	94A-205-01	1"	22.46
2511155	94A-206-01	1-1/4"	38.66
2511158	94A-207-01	1-1/2"	49.52
2511161	94A-208-01	2"	67.10
2511164	94A-209-01	2-1/2"	155.80
2511167	94A-200-01	3"	205.04
2511170	94A-20A-01	4"	403.42





6131 Homestead Blvd 2675 Overland Ave. PO Box 1934 Colstrip, MT 59323 TEL: (406) 748-4048 FAX: (406) 748-3135 cei@cei-online.com www.cei-online.com

Billings, MT 59102 TEL: (406) 656-4365 FAX: (406) 656-4534

2401 S. Greely Hwy Cheyenne, WY 82003 Minot, ND 58701 TEL: (307) 426-4258 FAX: (307) 426-4259

4105 S. Broadway TEL: (701) 500-1007 FAX: (406) 748-3135

March 19, 2014

Williams Bros Construction

RE: Laurel WWTP - WCD 021814 Add Pressure Switches

Barry Curtis Attn:

CEI would like to submit the following change order request for the supply and installation of one pressure switch each for pumps P-4401 and P-4402.

Quote:

	Labor Hrs	Labor \$	Material	Equipment	Subtotal	MU	Totals
New Work	28	\$1,960	\$1,300	\$200	\$3,460	\$346	\$3,806
			Subcontract				
REI			\$2,250		\$2,250	\$225	\$ 2,475
						Total	\$6,281

Notes:

- 1) Price is valid for 30 days.
- 2) Proposal is based off straight time rates.
- 3) Proposal may impact project duration.

If you have any further questions please call me at 406-656-4365.

Respectfully,

Wade Smith PM/Estimator

Model S-20 High Performance Pressure Transmitter for General Industrial Applications

WIKA Datasheet S-20

Applications

- General industrial applications
- Demanding research and development applications
- Harsh industrial environments

Special Features

- Measuring ranges from 0...10 to 0...20,000 psi (0 ... 0.4 to 0 ... 1,600 bar)
- Non-linearity of up to 0.125 % B.F.S.L.
- Available output signals include 4 ... 20 mA, 0 ... 10 VDC, 1 ... 5 VDC and many others
- Industry standard electrical connections including DIN 175301-803A L- connector, cables, housings and many others
- Common USA and international process connections available



The model S-20 pressure transmitter is the ideal solution for customers with demanding performance requirements in many industrial applications.

It features high accuracy, a robust design and is available with an exceptional number of options that make it suitable for an extremely broad range of pressure measurement applications.

High versatility

The model S-20 offers continuous measuring ranges between 0...10 psi and 0...20,000 psi (0 ... 0.4 and 0 ... 1,600 bar) in all common engineering units. Vacuum and compound ranges are also available.

These measuring ranges can be combined with virtually any standard industry output signal, common international process connections and a wide variety of electrical connections.

A large number of options are available including different accuracy classes, extended temperature ranges and customer specific pin assignments to provide compatibility with most industrial applications.

Data sheets showing similar products: Pressure transmitter for general industrial applications; model A-10; see data sheet PE 81.60 WIKA Datasheet S-20 · 4/2013



Model S-20 Pressure Transmitter

High quality

The rugged design makes the model S-20 a highly reliable transmitter that is not affected by most adverse environmental conditions. This transmitter meets most application performance requirements when exposed to very low outdoor temperatures, extreme shock and vibration and aggressive media.

Availability

Variations of the S-20 described in this data sheet are usually available with short lead times. Inventory of popular designs are usually available for particularly urgent requirements.



Measuring ranges

Rela	tive pressure	ranges					
psi	0 10	0 15	0 25	0 30	0 50	0 60	0 100
	0 150	0 160	0 200	0 250	0 300	0 400	0 500
	0 600	0 750	0 1,000	0 1,500	0 2,000	0 3,000	0 4,000
	0 5,000	0 6,000	0 7,500	0 10,000	0 15,000	0 20,000	
bar	0 0.4	00.6	0 1	0 1.6	0 2.5	0 4	0 6
	0 10	0 16	0 25	0 40	0 60	0 100	0 160
	0 250	0 40 0	0 600	0 1,000	0 1,600		

Abs	olute pressur	e ranges		,			
psi	0 10	0 15	0 25	0 30	0 50	0 60	0 100
	0 150	0 1 6 0	0 200	0 250	0 300	0 400	0 500
bar	0 0.4	0 0.6	0 1	0 1.6	0 2.5	0 4	06
	0 10	0 16	0 25	0 40			

Vac	u um and compound	ranges			
psi	-30 inHg 0	-30 inHg +15	-30 inHg +30	-30 inHg +45	-30 inHg +60
	-30 inHg +100	-30 inHg +160	-30 inHg +200	-30 inHg +300	-30 inHg +500
bar	-0.4 0	-0.6 O	-1 0	-1 +0.6	-1 +1.5
	-1 +3	-1 +5	-1 +9	-1 +15	-1 +24
	-1 +39	-1 +59			

The listed pressure ranges are also available in kg/cm2, kPa and MPa.

Overpressure limit

The overpressure limit depends on the specific sensor element used for the selected pressure range. A reduction in the overpressure safety rating may occur depending on the specific process connection and seal selected. A higher overpressure limit may provide a greater temperature error.

Measuring range < 150 psi/10 bar	≥ 150 psi/10 bar
3 times (standard)	2 times 1) (standard)
5 times	3 times ^{2) 3)}

Vacuum resistance

Yes

(No damage to sensor when vacuum is applied)

Special measuring ranges between 0 ... 10 and 0 ... 20,000 psi (0.4...1600 bar) are available on request.

Special pressure ranges may have reduced long-term stability and increased temperature errors.

Restriction: max. 60 ber/870 psi with absolute pressure
 Only possible for relative pressure measuring ranges ≤ 400 bar or 5,800 psi
 Only possible for absolute pressure measuring ranges < 16 ber or 220 psi

Output signal

Signal type	Signal
Current (2-wire)	4 20 mA
	20 4 mA
Voitage (3-wire)	DC 0 10 V
	DC 0 5 V
	DC 1 5 V
	DC 0.5 4.5 V
	DC16V
	DC 10 0 V
Ratiometric (3-wire)	DC 0.5 4.5 V

Other output signals on request.

Permissible load in Ω

■ Current output (2-wire): ≤ (power supply - 7.5 V) / 0.023 A

≤ (power supply - 11.5 V) / 0.023 A (with optional settling time of 1 ms)

■ Voltage output (3-wire): > maximum output voltage / 1 mA

■ Ratiometric output (3-wire): > 4.5k

Optional output signal limits

4 ... 20 mA signal:

Minimum zero point setting: 3.6 mA 1), 3.8 mA, 4.0 mA Maximum full scale setting: 20 mA, 21.5 mA, 23 mA

■ DC 0 ... 10 V signal:

Full scale: 10 VDC or 11.5 VDC

Voltage supply

Power supply

Maximum allowable power supply rating for cULus approval: 35 VDC (32 VDC with heavy-duty connector)

■ Current output (2-wire)

4 ... 20 mA: 8 ... 36 VDC (12 ... 36 VDC with optional 1 ms settling time) 20 ... 4 mA (reverse output): 8 ... 36 VDC

■ Voltage output (3-wire)

0 ... 10 VDC: 12 ... 36 VDC 0 ... 5 VDC: 8 ... 36 VDC 1 ... 5 VDC: 8 ... 36 VDC 0.5 ... 4.5 VDC: 8 ... 36 VDC 1 ... 6 VDC: 9 ... 36 VDC 10 ... 0 VDC: 12 ... 36 VDC

■ 3-wire ratiometric output:

0.5 ... 4.5 VDC: 5 VDC ±10 %

Power dissipation (loss)

■ Current output (2-wire): 828 mW (22 mW/K derating of the power dissipation when ambient temperatures

are ≥ 212 ° F/100 °C)

■ Voltage output (3-wire): 432 mW

Maximum current consumption

Current output (2-wire): Current signal, max. 25 mA

■ Voltage output (3-wire): max. 12 mA

¹⁾ Not available with the zero point adjustment option

Reference conditions (per IEC 61298-1)

Temperature

59...77°F (15...25°C)

Barometric pressure

860 ... 1,060 mbar

Humidity

45 ... 75 % relative

Power supply

- **24 VDC**
- 5 VDC for ratiometric output

Mounting position

Calibrated in vertical position with pressure connection facing down

Response time

Signal type	Settling time per	IEC 62594	Signal damping		
	Standard 1)	Option 1 2) 3)	Option 2		
Current (2-wire)	3 ms	1 ms	10, 50, 100, 500, 1,000, 5,000 ms		
Voltage (3-wire)	2 ms	1 ms	10, 50, 100, 500, 1,000, 5,000 ms		
Ratiometric (3-wire)	2 ms	1 ms	10, 50, 100, 500, 1,000, 5,000 ms		

Switch-on time (from power up to output signal)

150 ms

Switch-on drift time

5 s to reach stated accuracy (60 s with optional 0.1 % zero point adjustment)

Accuracy data

Non-linearity (per IEC 61298-2)		Accuracy at calibration temperature
BFSL	Terminal method	
≤ ±0.5 % of span (standard)	≤ ±1.0 % of span	≤ ±1.0 % of span
≤ ±0.25 % of span	≤ ±0.5 % of span	≤±0.5 % of span
≤ ±0.125 % of span ¹)	≤ ±0.25 % of span 1)	≤±0.25 % of span 1)

Restrictions for the non-linearity of 0.125 % BFSL or 0.25 % with terminal method: Available output signals: 4 ...20 mA and DC 0 ... 10 V Available measuring ranges: All measuring ranges specified in the data sheet For further output signals or measuring ranges, please ask the manufacturer

Calibration temperature

15 ... 25 °C (standard)

4 °C ±5 °C

40 °C ±5 °C

60 °C ±5 °C

80 °C ±5 °C

Zero point adjustment

≤ ±0.2 % of span, factory setting (standard)

 $\leq \pm 0.1$ % of span, factory setting 1)

±10 % of span, in 0.05 % increments, customer setting 2)

- 1) Restrictions for the optional factory set 0.1 % zero point adjustment:
 Only available with 4 ...20 mA and 0 ... 10 VDC output signals
 Available measurement ranges: All relative pressure ranges specified in the
 data sheet. Not available in combination with the optional calibration temperature.
 2) The "optional zero point adjustment access" is not available with every electrical

Effect of mounting position on zero offset

For measuring ranges < 15 psi (1 bar), an additional zero offset of up to 0.15 % applies

Non-repeatability

≤±0.1 % of span

Temperature hysteresis

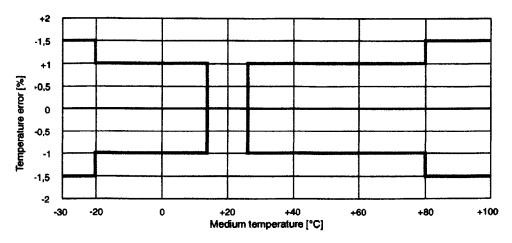
0.1 % of span at > 176 °F (80 °C)

Long-term drift (per IEC 61298-2)

- # ≤ ±0.1 % of span
- ≤ ±0.2 % of span (with special measuring ranges)

Temperature error (for calibration temperature of 59...77 °F (15 ... 25 °C))

For measuring ranges < 15 psi (1 bar), special measuring ranges and instruments with an increased overpressure limit the temperature error increases by 0.5 % of span



Operating conditions

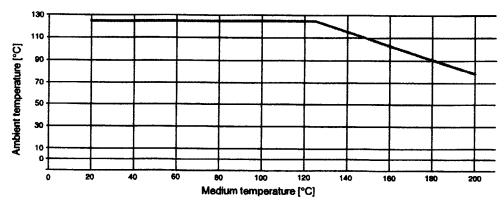
Permissible temperature ranges

Medium	Ambient	Design	maximum permissible pressure
-30 +100 °C (standard)	-30 +100 °C	•	•
-40 +125 °C	-40 +125 °C	•	-
-40 +150 °C	-40 +125 °C 1)	with integrated cooling element	5800 psi (400 bar)
-40 +200 °C	-40 +125 °C 1)	with integrated cooling element	5800 psi (400 bar)
-20 +60 °C	-20 +60 °C	Oxygen applications	•

¹⁾ Derating curve and formula (see following diagram)

There may be other media and ambient temperature limitations depending upon the sealing material used with the process connection and the specific electrical connection selected.

For restrictions see "Process connections, sealings" and "Electrical connections".



Maximum permissible ambient temperature

T_{amb} (T_{med} < 125 °C) = 125 °C

 $T_{amb} (T_{med} \ge 125 \, ^{\circ}C) = -0.62 \times T_{med} + 202 \, ^{\circ}C$

Maximum permissible medium temperature

 $T_{med} (T_{amb} < 80 \, ^{\circ}C) = 200 \, ^{\circ}C$

 $T_{med} (T_{amb} \ge 80 \text{ °C}) = -1.61 \times T_{amb} + 326 \text{ °C}$

 $T_{emb} = ambient temperature [^{\circ}C]$ $T_{med} = medium temperature [^{\circ}C]$

Storage and transport conditions

Permissible temperature range:

-40...158° F (-40 ... +70 °C)

Maximum humidity (per IEC 68-2-78):

67 % r.h. at 104 F (40 °C) (in accordance with 4K4H per EN 60721-3-4)

Vibration resistance (per IEC 68-2-6)

20 g, 10 ... 2,000 Hz, (40 g, 10 ... 2,000 Hz for heavy-duty connector)

For instruments with cooling elements a limited vibration resistance of 10 g applies (10 ... 2,000 Hz)

Continuous vibration resistance (per IEC 68-2-6)

10 g

Shock resistance (per IEC 68-2-27)

100 g, 6 ms (500 g, 1 ms for heavy-duty connector)

Service life

100 million load cycles (10 million load cycles for measuring ranges > 7,500 psi /600 bar)

Free-fall test (following IEC 60721-3-2)

Individual packaging: 5 ft (1.5 m)

Multiple packaging:

1.6 ft (0.5 m)

PE bag:

1.6 ft (0.5 m)

Process connections

Available connections

Process connection per	Thread size	Maximum overpressure limit
EN 837	G 1/s B	11,600 psi (800 bar)
	G 14 B	20,300 psi (1,400 bar)
	G 1/4 B female	20,300 psi (1,400 bar)
	G 1/2 B	26,100 psi (1,800 bar) (1.4404)
		46,400 psi (3,200 bar) (1,4542)
	G%B	20,300 psi (1,400 bar)
DIN 3852-E	G¼A	8700 psi (600 bar)
	G½A	8700 psi (600 bar)
	M14 x 1.5	8700 psi (600 bar)
ISO 228	M20 x 1.5	26,100 psi (1,800 bar) (1.4404)
		47,800 psi (3,300 bar) (1.4542)
	M12 x 1.5	8700 psi (600 bar)
SAE J514 E	7/16-20 UNF BOSS	8700 psi (600 bar)
	7/16-20 UNF J514 sealing cone 74°	15,900 psi (1,100 bar)
	9/16-18 UNF BOSS	8700 psi (600 ber)
ANSVASME B1.20.1	% NPT	15,900 psi (1,100 bar)
	14 NPT	21,700 psi (1,500 bar)
	14 NPT female	21,700 psi (1,500 bar)
	½ NPT	21,700 psi (1,500 bar) (1.4404)
		40,600 psi (2,800 bar) (1.4542)
KS	PT 1/4	23,200 psi (1,600 bar)
	PT ½	21,700 psi (1,500 bar)
	PT %	20,300 psi (1,400 bar)
ISO 7	R¼	23,200 psi (1,600 bar)
	R%	21,700 psi (1,500 bar)
•	R½	20,300 psi (1,400 bar) (1.4404)
		41,200 psi (2,840 bar) (1.4542)

Other process connections available on request.

Pressure port diameter

Pressure port diameter	Available for thread sizes
2.5 mm (standard)	all thread sizes
0.3 mm	G ¼ A, G ½ A, ¼ NPT, ½ NPT, R ¼, 7/16-20 UNF BOSS
0.6 mm	G ¼ A, G ½ A, ¼ NPT, ½ NPT, R ¼, 7/16-20 UNF BOSS
6 mm*	G ¼ A, ¼ NPT, R ¼, 7/16-20 UNF BOSS
12 mm*	G 1/2 A, 1/2 NPT

^{*6} or 12 mm enlarged pressure port is only available for measuring ranges up to and including 0 ... 500 psi (0 ... 40 bar).

Sealing rings

Process connection per	Copper -40 +125 °C	Stainless steel -40 +125 °C	NBR -20 +100 °C	FKM -15 +125 °C
EN 837	Standard	Option	•	•
DIN 3852-E	•	-	Standard	Option
ISO 228	Standard	Option	•	-
SAE J514 E	•	•	Standard	Option

Electrical connections

Available connections

Electrical connection	Ingress	Wire	Cable Ø	Cable	maximum permissible
	protection	cross-sec-		material	temperature
		tion			
L-connector DIN 175301-803 A 1)	IP 65				-30 +100 °C
L-connector DIN 175301-803 C 1)	IP 65		: -		-30 +100 °C
Circular connector M12 x 1 (4-pin) 1)	IP 67	: : •	•	-	-30 +100 °C
Circular connector M12 x 1 (4-pin, metallic)	IP 67	•	-		-40 +125 °C (cULus: +85 °C)
Bayonet connector (6-pin)	IP 67	-	•	ļ -	-40 +125 °C
Field case	IP 6K9K		· <u>-</u>		-25 +100 °C
Heavy-duty connector 2)	IP 68		-	-	-40 +125 °C
Cable outlet IP 67 1)	IP 67	3 x 0.34 mm ²	5.5 mm	PUR	-30 +100 °C
Cable outlet 1/2 NPT conduit	IP 67	6 x 0.35 mm ²	6.1 mm	PUR	-30 +100 °C (cULus: +90 °C)
Cable outlet IP 68	IP 68		6.1 mm	PUR	-30 +125 °C (cULus: +90 °C)
Cable outlet IP 68, FEP	IP 68	6 x 0.39 mm ²		FEP	-40 +125 °C (cULus: +105 °C)
Cable outlet IP 6K9K	IP 6K9K	6 x 0.35 mm ²	6.1 mm	PUR	-30 +125 °C (cULus: +90 °C)

Customer zero point adjustment available as an option.
 max. DC 32 V with cUllus approval.

Other connections on request.

Assembly configurations of the mating connectors

Mating connector for electrical	Ingress	Wire	Cable Ø	Cable	max. permissible	Cable ends
connection	protection	cross-section		material	temperature	
L-connector DIN 175301-803 A	1			1	!	
■ Mating connector	IP 65	max. 1.5 mm ²	6 8 mm		-40 +125 °C	
Mating connector (conduit)	IP 65	max. 1.5 mm ²	-		-40 +125 °C	
Mating connector with molded cable	IP 65	3 x 0.75 mm²	6 mm	PUR	-40 +125 °C (cULus: -25 +85°C)	no finishing
Mating connector with molded cable, shielded	IP 65	6 x 0.5 mm ²	6.8 mm	PUR	-25 +85 °C	End splices
L-connector DIN 175301-803 C						·
Mating connector	IP 65	max. 0.75 mm ²	4.5 6 mm	•	-40 +125 °C	; •
 Mating connector with molded cable 	IP 65	4 x 0.75 mm ²	5.9 mm	PUR	-25 +85 °C	no finishing
Circular connector M12 x 1 (4-pin)	And to the second of the secon				* - · · · · · · · · · · · · · · · · · ·	
Mating connector, straight, with molded cable	IP 67	3 x 0.34 mm²	4.3 mm	PUR	-25 +80 °C	no finishing
Straight mating connector, with molded cable, shielded	IP 67	3 x 0.34 mm ²	4.3 mm	PUR	-25 +80 °C	no finishing
Mating connector, angled, with molded cable	IP 67	3 x 0.34 mm ²	5.5 mm	PUR	-25 +80 °C	no finishing
leavy-duty connector	1					
Mating connector with cable	IP 68	6 x 0.14 mm ²	6.5 mm	PUR	-40 +125 °C (cULus: -30 +90°C)	no finishing

Assembly configurations of the cable outlets

Electrical connection	Unfinished wire ends	Tinned wire ends	with end splices
Cable outlet IP 67	Standard	Option	Option
Cable outlet 1/2 NPT conduit		Option	Standard
Cable outlet IP 68	-	Option	Standard
Cable outlet IP 68, FEP	. •	Option	Standard
Cable outlet IP 6K9K	-	Option	Standard

Cable lengths of 6 ft, 15 ft, 2 m or 5 m are available, other cable lengths on request.

Connection diagrams

L-connector D	N 175301-803 A			
		2-wire	3-wire	
	U ₊	1	1	
[3 @]	U-	2	2	
	S.	•	3	
	Shield (option)	4	4	

Heavy-duty co	nnector		
		2-wire	3-wire
	U+	1	1
14	U-	2	2
23/	S+	-	3
	Shield	Case	Case

L-connector DI	N 175301-803 C	2-wire	3-wire	
		Z Wile	J-Wile	
	U+	1	1	
	U	2	2	
	S ₊	•	3	
	Shield (option)	4	4	

Circular connector M12 x 1 (4-pin)				
		2-wire	3-wire	
	U ₊	1	1	
43	U-	3	3	
10 02	S.		4	
	Shield (option)	Case	Case	

Bayonet conne	ector (6-pin)		
		2-wire	3-wire
	U ₊ ∵	A	A
F A B	U.	В	В
·E D C·	S.	-	С
	Shield	Case	Case

Field case		1	
		2-wire	3-wire
22022	J.	1	1
8 8 8 8 8	J.	2	2
12345	3.	•	3
1 2 3 4 3	Shield	5	5

Cable outlet incl. mating conn	ector with molded	i cable	
		2-wire	3-wire
	U+	brown (BN)	brown (BN)
	U.	blue (BU)	blue (BU)
	S+	•	black (BK)
	Shield	grey (GY)	grey (GY)

Cable outlet	,		,
(US code)		2-wire	3-wire
	U+	red (RD)	red (RD)
	U.	black (BK)	black (BK)
	S.	-	white (WH)
	Shield	grey (GY)	grey (GY)

Other pin assignments on request.

Electrical protection

The electrical protection measures below do not apply to ratiometric output signals.

- Short-circuit protection:
- S+ vs. U-
- Reverse polarity protection: U+ vs. U-
- Overvoltage protection: 40 VDC
- Insulation voltage:
- 750 VDC

Materials

Wetted parts

■ Relative measuring ranges:

- Measuring ranges ≤ 150 psi / 10 bar:

316L

- Measuring ranges > 150 psi / 10 bar:

316L + 13-8 PH

Absolute pressure measuring ranges:

- Measuring ranges ≤ 10,000 psi / 1,000 bar:

ASTM 630 and 13-8 PH

- Measuring ranges > 10,000 psi / 1,000 bar:

316L + 13-8 PH

Sealing materials:

see "Process connections"

Non-wetted parts

■ Case:

316 Ti

Zero point adjustment ring:

PBT/PET GF30

■ Electrical connections:

L-connector DIN 175301-803 A:

PBT/PET GF30

L-connector DIN 175301-803 C:

PBT/PET GF30

Circular connector M12 x 1 (4-pin): Circular connector M12 x 1 (4-pin, metallic):

PBT/PET GF30 316L

Bayonet connector (6-pin)

316L + AI

Field case:

316L, 316Ti

Heavy-duty connector:

316L

Cable outlet IP 67:

PA66

Cable outlet ½ NPT conduit:

316L

Cable outlet IP 68:

316L

Cable outlet IP 68, FEP: Cable outlet IP 6K9K:

316L 316L

Pressure transmission fluid

Synthetic oil (for measuring ranges < 150 psi / 10 bar relative and absolute pressure)

Options for specific media

Medium	Option		
Food	Food-compatible transmission fluid		
Oil and grease free	Residual hydrocarbon: < 1,000 mg/m ²		
	Packaging: Protection cap on the pr	rocess connection	
Oxygen, oil and grease free	Residual hydrocarbon (measuring r	ange < 30 bar): < 500 mg/m ²	
	Residual hydrocarbon (measuring r	ange > 30 bar): < 200 mg/m ²	
	Packaging: Protection cap on the packaging Protection cap of the packaging Protection cap on t	process connection, instrument sealed in a PE bag -20 +60 °C	
	Elastomer sealing: oly FKM possible	e, max15 +60 °C and max. 30 bar measuring range.	
	Not possible with process connection	ons with female thread	
Hydrogen	On request		
	Measuring ranges:	from 25 bar relative	
	Wetted parts:	316L and Elgiloy® (2.4711)	
	Maximum permissible temperature:	-30 +30 °C	

CE conformity

Pressure equipment directive

97/23/EC

EMC directive

2004/108/EC, EN 61326 emission (group 1, class B) and interference immunity (industrial application)

EM field

30 V/m (80 ... 1,000 MHz)

RoHS conformity

Directive 2002/95/EC

Performance level (per EN ISO 13849-1:2008)

■ Performance level:

PL = C

■ Category:

Cat. = 1

■ Diagnostic coverage: DC = none

MTTF:

> 100 years

Certificates (optional)

2.2 test report	State-of-the-art manufacturing	
·	Wetted metallic parts	
	Confirmation of the class and indication accuracy	
3.1 inspection certificate	Wetted metallic parts	
	Wetted metallic parts with suppliers' certificate	
	Confirmation of the class and indication accuracy	
	List of single measured values	

Approvals and certificates, see website

Scope of delivery

Test report

■ Non-linearity 0.5 % (B.F.S.L.)

3 points

■ Non-linearity 0.25 % (B.F.S.L..)

5 points

■ Non-linearity 0.125 % (B.F.S.L.) 5 points

Packaging

Individual packaging (standard)

Multiple packaging (up to 20 pieces)

Instrument labeling

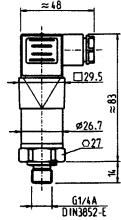
WIKA laser-etched label (standard)

Customer-specific label on request

Dimensions in mm

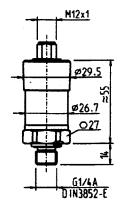
Pressure transmitter model S-20

with L-connector DIN 175301-803 A



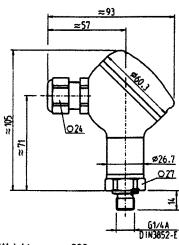
Weight: approx. 150 g

with circular connector M12 x 1 (4-pin)



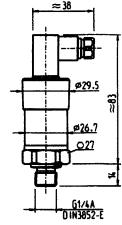
Weight: approx. 150 g

with field case



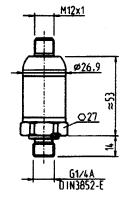
Weight: approx. 290 g

with L-connector DIN 175301-803 C



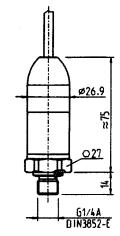
Weight: approx. 150 g

with circular connector M12 \times 1 (4-pin, metallic)



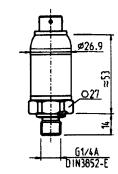
Weight: approx. 150 g

with cable outlet IP 68, FEP, IP 6K9K



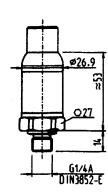
Weight: approx. 220 g

with bayonet connector (6-pin)



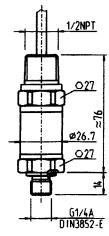
Weight: approx. 150 g

with heavy-duty connector



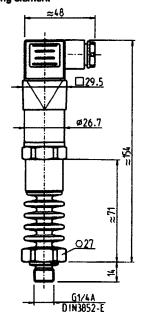
Weight: approx. 150 g

with cable outlet 1/2 NPT conduit



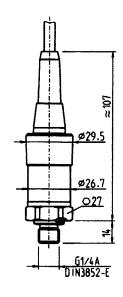
Weight: approx. 220 g

with L-connector DIN 175301-803 A and cooling element



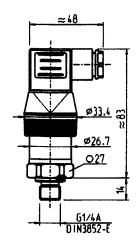
Weight: approx. 360 g

with cable outlet IP 67



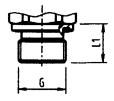
Weight: approx. 150 g

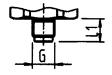
with L-connector DIN 175301-803 A and zero point adjustment

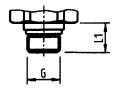


Weight: approx. 150 g

Process connections



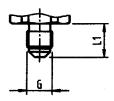


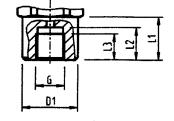


G	L1	
G¼A	14	
G ½ A	17	
M14 x 1.5	14	

G	Li	
G 1/4 B	10	

G	L1	
7/16-20 UNF BOSS	12.06	
9/16-18 UNF BOSS	12.85	

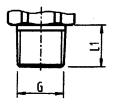


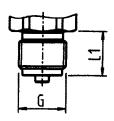


	J
ma	2 5
D1	

G	D1	L1	L2	L3
G 1/4 B fernale	25	20	13	10

G	D1	L1	L2
14 NPT female	25	20	14





G	L1	
1/4 NPT	10	
14 NPT	13	
½ NPT	19	
PT ¼	13	
PT ½	19	
PT 3/4	15	
R14	13	
R1⁄2	19	
R 3/4	15	

G	L1	
G ¼ B	13	
G ½ B	20	
G%B	16	
M12 x 1.5	15	
M20 x 1.5	20	

For information on tapped holes and welding sockets, see Technical information IN 00.14 at www.wika.com.

Accessories and spare parts

Mating connector

Designation	Order number				
	without cable	with 2 m cable	with 5 m cable	with 2 m cable, shielded	
L-connector DIN 175301-803 A					
■ with gland, metric	11427567	11225793	11250186	2242656	
with gland, conduit	11022485	-	•	•	
L-connector DIN 175301-803 C	1439081	11225823	11250194	•	
Circular connector M12 x 1 (4-pin)					
■ straight	•	11250780	11250259	14056584	
angled angled	•	11250798	11250232	*	

Sealings for mating connectors

Mating connector	Order number	1
	Blue (WIKA)	Brown (neutral)
L-connector DIN 175301-803 A	1576240	11437902
L-connector DIN 175301-803 C	11169479	11437881

Sealings for process connection

Thread size	Order number	Order number			
	Copper	Stainless steel	NBR	FKM	
G 1/4 B	11251051	•	•	•	
G¼B	11250810	11250844	•	•	
G 1/2 B	11250861	11251042	•	•	
G%B	14065101	•	•	-	
M12 x 1.5	11250810	11250844		-	
M20 x 1.5	11250861	11251042	•	-	
G¼A	•	•	1537857	1576534	
G 1/2 A	•	•	1039067	1039075	
M14 x 1.5	•	•	1537857	1576534	
7/16-20 UNF BOSS	•	•	14057554	11472022	
9/16-18 UNF BOSS	•	•	14057555	2063240	

Ordering information

Model / Measuring range / Overpressure limit / Output signal / Non-linearity / Calibration temperature / Zero point adjustment / Process connection / Pressure channel / Sealing / Electrical connection / Assembly / Cable length / Shielding / Certificates / Packaging / Instrument labeling / Accessories and spare parts

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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WIKA Datasheet S-20 · 4/2013



WIKA Instrument, LP 1000 Wiegand Boulevard Lawrenceville, GA 30043-5868 Tel: 888-WIKA-USA • 770-513-8200

Fax: 770-338-5118 E-Mail: info@wika.com www.wika.com

LAUREL WWTP Revised Grating at UV

BWC Date: 3-31-14

Materials		1.1-24	Our miles	Cost (NWP)
Description		Unit	Quantity	Cost (IAVAL)
Grating	\$945.00	LS	1	\$945.00
Labor Description		Unit	Quantity	Cost
Description				
Equipment Description		Unit	Quantity	Cost
Sub- Contractors		Unit	Quantity	Cost
Description		One	Quantity	
Subtotal				\$945.00 \$160.65
Markup	سسميوب			\$1,105.65
TOTAL				4 1,100.00



7105B Lolo Creek Road Lolo, Montana 59847 Phone: (406) 728-6097 Fax: (406) 829-0748

March 28, 2014

To:

Williams Brother Construction

Attn:

Barry Curtis

Re:

Laurel WWTP BNR Upgrade Project

Replace 1 1/2" Grating with 2" Grating per RFI #2 Response

Scope:

Replace 1 1/2" Grating for UV Disinfection Channel with 2" Grating

Change 149 SF of 1 1/2" grating to 2" grating as required by Engineer's response to RFI #2

Change in Cost for Above Listed Change in Material FOB Jobsite: \$945.00

Contractor certifies the above listed material has been changed from what was originally shown in the contract documents. The material listed above is approved as an additive change order and amount quoted will be added to the contract amount if the change is accepted.

ACCEPTED:	
Williams Brother Construction	
Ву:	_
Data	



Request for Information

RFI No: 2 Date: 9-27-13

	Job No287	
Originator: Mike Cook	Project Name: Laurel WWTP BNR Upgrade	
Drawing Reference: S-18	Specification Reference: 05100	
Attachments: S-18 and grating load table	Location/Area: UV Building Grating	
Problem: On drawing S-18 structural note 5 requires 2" grating over the narrow short span trench in the UV area. Structural note 6 requires 1 ½" grating over the larger areas with long spans. The 1 ½" grating does not meet the loading requirements for the long spans.		
Solution: It looks as if the structural notes for the grating may have been reversed and 2" grating should be supplied where note 6 specifies 1 ½" grating. Please verify the grating depths on drawing S-18 with respect to the structural notes and what is required for loading.		
Engineer's Solution: Note 6 on Sheet S-18 is incorrect. All grating shall be 2", both in the long span areas and the short span areas over the UV channel. Disregard all areas of the UV channel drawings that call out 1 1/2" grating. Adjust the height of the angle support welded to the beam to insure 2" grating is flush with the top of beam/concrete elevation.		
Action: Change Order Request for Quote Clarification Only		
Reviewed By:	Date: 10/9/2013	
Approved By:	Date:	
Cc: Job File		

Aluminum Bar Grating

RECTANGULAR BAR SWAGE-LOCKED 1-3/16" C/C Bearing Bars

PRESS-LOCKED 1-3/16" C/C Bearing Bars

19-SR-4 19-SR-2

19-AP-4

19-AP-2

Cross Rods 4" C/C

Cross Rods 2" C/C

Cross Bars 4" C/C

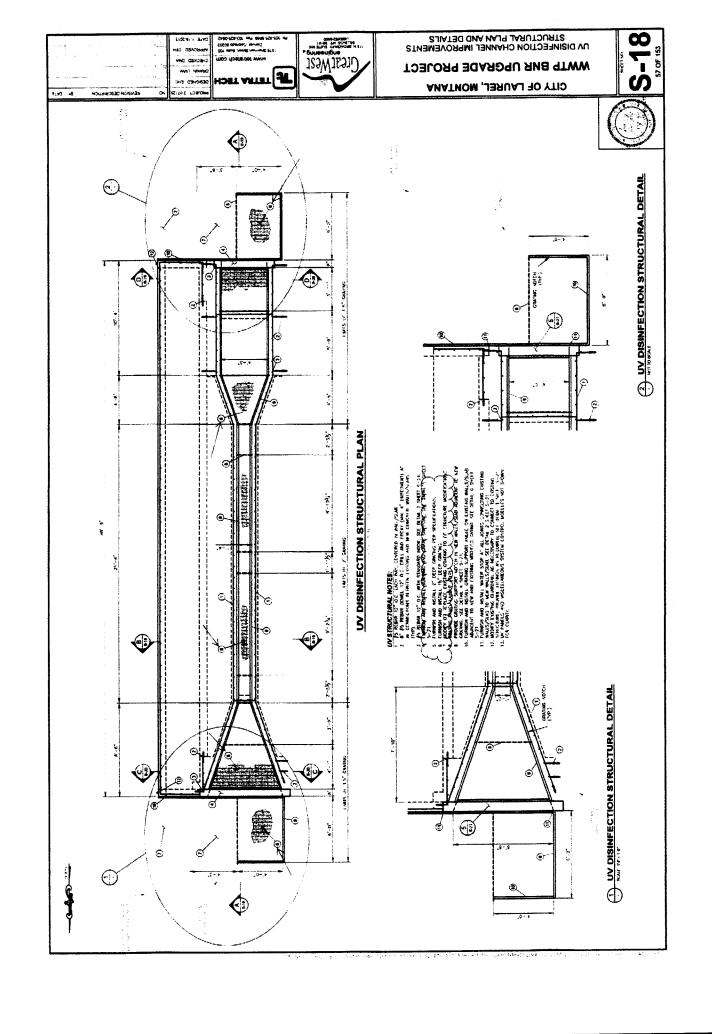
Cross Bars 2" C/C

NON-SERRATED & SERRATED

LOAD & DEFLECTION TABLE

18	Ваг		Symbol						(Direc	tion o	i Bear	ing Ba	r)				U = safe C = safe			
1/8" 19-SR-2 1.6 U	Size							2:				İ								, p
## 19-SR-2 1.5	0/47 4//	ΩR																		v. 10.000.000 ps
19-AP-2 18	3/4" x 1/8					110														• • • • • •
3/16" 19-SR-2 1.9	Non-Serrated (Only			~	.110														•
3/16" 19-SR-2 2.1																				
ted Only 19-AP-4 2.2 0.178 C 355 284 237 203 203 19-AP-2 2.7 19-AP-2 2.7 19-AP-2 2.7 19-AP-2 1.7 19-AP-2 1.8 0.211 C 421 337 281 241 211 19-AP-2 2.2 19-AP-2 2.5 19-AP-2 2.5 19-AP-2 2.5 19-AP-2 2.5 19-AP-2 2.8 19-AP-2 2.8 0.316 C 632 505 421 361 316 281 19-AP-2 2.8 19-AP-2 2.3 19-AP-2 2.3 19-AP-2 2.3 19-AP-2 2.3 19-AP-2 2.3 19-AP-2 2.4 19-AP-2 2.5	3/4" x 3/1	6"																		
19-8P-2 27	-					.178														
11/8" 19-SR-2 19-91	Mou-Seugeo	Unity			_							18								
19-8P-4												105	,							
19-AP-2 2.2	1" v 1/0	n			9		Ď					0.576					• • •			•
19-87-4 2.5	1" x 1/8		19-AP-4	1.	80	.211	Ċ	421	337	281	241	211		l						
19-SR-2 27			19-AP-2	2.	2			0.115	0.180	0.259		0.461		}						
19-AP-4																	•			
19-AP-2 3.3	1" x 3/16	377				040														
19-SR-4 2.1		•			-	.310														_
X 1/8"																	rinisn: N	Alli Tinisi	n uniess	otherwise specii
19-AP-4																				
19-AP-2 28	1-1/4" x 1,	/8"				329														
19-SR-4 3.1					-															
19-SR-2 3.5														158						
19-AP-4 3.5 0.493 C 987 789 658 564 493 439 395 19-SP-4 2.5 U 947 606 421 309 237 187 152 19-SP-4 2.8 0.474 C 947 758 632 541 474 19-SP-2 3.2 D 0.077 0.120 0.173 0.235 0.307 0.389 0.480 19-SP-2 3.9 D 0.096 0.150 0.216 0.294 0.384 0.486 19-SP-2 4.8 D 0.077 0.120 0.173 0.235 0.307 0.389 0.480 0.726 19-SP-4 4.1 0.711 C 1421 1137 947 812 711 632 19-SP-4 4.2 U 1934 1238 860 632 484 382 19-SP-2 4.8 D 0.077 0.120 0.173 0.235 0.307 0.399 0.480 0.581 19-SP-2 4.8 D 0.077 0.120 0.173 0.235 0.307 0.399 0.480 0.581 19-SP-2 4.8 D 0.007 0.120 0.173 0.235 0.307 0.399 0.480 0.581 19-SP-2 4.8 D 0.007 0.120 0.173 0.235 0.307 0.399 0.480 0.581 19-SP-2 4.8 D 0.0082 0.129 0.185 0.252 0.329 0.417 0.514 0.622 0.741 0.869 19-SP-2 5.3 D 0.066 0.103 0.148 0.202 0.253 0.333 0.411 0.498 0.592 0.695 19-SP-4 4.8 U 2526 1617 1123 825 632 499 404 334 281 239 206 19-SP-4 5.3 1.283 C 2526 2021 1684 0.202 0.253 0.333 0.411 0.498 0.592 0.695 19-SP-4 5.3 1.283 C 2526 2021 1684 0.202 0.253 0.335 0.436 0.545 0.648 0.761 0.882 19-SP-2 5.9 D 0.058 0.090 0.130 0.176 0.230 0.292 0.360 0.436 0.576 0.688 0.706 19-SP-2 5.9 D 0.058 0.090 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.5 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.436 0.545 0.648 0.761 0.882 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.350 0.436 0.545 0.648 0.761 0.882 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.360 0.480 0.576 0.676 0.784 19-SP-2 5.6 D 0.056 0.000 0.130 0.176 0.230 0.292 0.380 0.440 0.576 0.676 0.922 1.166 1.954 1.954 0.95	4 4/48 01	401																		
19-AP-2	1-1/4" x 3/	10.				.493														
19-SR-4				4.	Ž															
X 1/8" 19-SR-2 2.7																				
19-AP-2 28	1 1/0" v 1	/O"			.7		Ď	0.096	0.150	0.216	0.294	0.384	0.486	0.600						
19-SR-2 3.9	1-1/2 X I	/0		2.	.8 0).474	С	947	758	632	541	474	421	379						
19-SR-2 3.9			19-AP-2	3.	.2		D	0.077	0.120	0.173		0.307								
19-AP-2 4.8			19-SR-4																	
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19-AP-2 6.5 D 0.051 0.080 0.115 0.157 0.205 0.259 0.320 0.387 0.461 0.541 0.627 0.819 19-SR-4 5.9 U 3947 2526 1754 1289 987 780 632 522 439 374 322 247 195 0.376	2-1/4" x 3/	/16"				1.599										1066	984	914	799	77711
19-SR-4 5.9 U 3947 2526 1754 1289 987 780 632 522 439 374 322 247 195 19-SR-2 6.1 D 0.058 0.090 0.130 0.176 0.230 0.292 0.360 0.436 0.518 0.608 0.706 0.922 1.166 19-AP-2 7.1 D 0.046 0.072 0.104 0.141 0.184 0.233 0.288 0.348 0.415 0.487 0.564 0.737 0.933															0.387					
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1947-2 7.1 0 0.012 0.012 0.014 0.014	2 1/2" v 2	/4 C *	19-SH-2					3047	3158											
	2-1/2" x 3/	/16"				1.9/4														
PANEL WIDTH (inches) Note: Includes 1/4* (1/8* each side) for extended cross rods on swage-locked (SR) and extended cross bars on press-locked (AP).	2" x 3/11 2-1/4" x 3/	*	19-AP-4 19-AP-2 19-SR-4 19-SR-2 19-AP-4 19-AP-2 19-SR-4	5. 5. 5. 5. 6. 5.	.3 1 .9 .4 .6 .8 .5 .9 .1	1.599	000000000000000000000000000000000000000	2526 0.058 3197 0.064 3197 0.051 3947 0.058	2021 0.090 2046 0.100 2558 0.080 2526 0.090	1684 0.130 1421 0.144 2132 0.115 1754 0.130 2632	1444 0.176 1044 0.196 1827 0.157 1289 0.176 2256	1263 0.230 799 0.256 1599 0.205 987 0.230 1974	1123 0.292 632 0.324 1421 0.259 780 0.292 1754	1011 0.360 512 0.400 1279 0.320 632 0.360 1579	919 0.436 423 0.484 1163 0.387 522 0.436 1435	842 0.518 355 0.576 1066 0.461 439 0.518 1316	777 0.608 303 0.676 984 0.541 374 0.608 1215	722 0.706 261 0.784 914 0.627 322 0.706 1128	200 1.024 799 0.819 247 0.922 987	1.
	R/AP-19 PAI		19-AP-4 19-AP-2 /IDTH (inc	6 7 (hes) 4	.4 1 .1 5	Note: Inc	D	0.046 (1/8* eac 8	0.072 ch side) fo 9	r extended	d cross ro	ds on swa 12	ge-locked 13	(SR) and	extended (cross bar 16	s on press			0.933
15/., 21/, 311/., 47/, 61/., 71/, 87/., 95/,, 1013/., 12 131/., 141/, 158/., 163/, 1715/.,	R/AP-19 PAI	NEL W	19-AP-4 19-AP-2 /IDTH (inc	6 7 (hes) 4	.4 1 .1 5	Note: Inc	D Judes 1/4' 7	0.046 (1/8* eac 8	0.072 ch side) fo 9	r extended	d cross ro	ds on swa 12	ge-locked 13	(SR) and	extended (cross bar 16	s on press			0.933
116 -12 -13 -16	R/AP-19 PAI No. of Bars 1/8° Bar	NEL W 2 1 ⁵ /16	19-AP-4 19-AP-2 /IDTH (inc 3 2 ¹ / ₂	67 (hes) 4 311/16	5 4 ⁷ / ₆	Note: Inc 6 6 ¹ / ₁₅	D dudes 1/4' 7 71/4	0.046 (1/8° eac 8 8 ⁷ / ₁₆	0.072 ch side) fo 9 9 ⁵ / ₅	10 10 ¹³ / ₁₅	1 cross ro 11 12	ds on swa 12 13³/ ₁₆	ge-locked 13 14 ³ / ₈	(SR) and 14 15 ⁸ / ₁₈	15 16 ³ / ₄	16 17 ¹⁵ /1	s on press			0.933
13/ ₈ 29/ ₁₆ 33/ ₄ 4 ¹⁵ / ₁₆ 6 ¹ / ₈ 7 ⁵ / ₁₆ 8 ¹ / ₂ 9 ¹¹ / ₁₆ 10 ⁷ / ₈ 12 ¹ / ₁₅ 13 ¹ / ₄ 14 ⁷ / ₁₅ 15 ⁵ / ₈ 16 ¹³ / ₁₆ 18	R/AP-19 PAI No. of Bars	NEL W 2 15/16 13/8	19-AP-4 19-AP-2 /IDTH (inc 3 2 ¹ / ₂ 2 ⁹ / ₁₆	6 7 ches) 4 311/16 33/4	5 4 ⁷ / ₆ 4 ¹⁵ / ₁₆	Note: Inc 6 6 ¹ / ₁₅	D dudes 1/4' 7 71/4 75/16	0.046 (1/8" eac 8 8 ⁷ / ₁₆ 8 ¹ / ₂	0.072 ch side) fo 9 9 ⁵ / ₃ 9 ¹¹ / ₁₆	10 10 ¹³ / ₁₅ 10 ⁷ / _a	11 12 12 ¹ / ₁₅	12 13 ³ / ₁₆ 13 ¹ / ₄	13 14 ³ / ₈ 14 ⁷ / ₁₅	(SR) and 14 15 ⁹ / ₁₆ 15 ⁵ / _a	15 16 ³ / ₄ 16 ¹³ / ₁₆	16 17 ¹⁵ / ₁ 18	s on press			0.933
13/ ₈ 29/ ₁₆ 33/ ₄ 4 ¹⁵ / ₁₆ 6 ¹ / ₈ 7 ⁵ / ₁₆ 8 ¹ / ₂ 9 ¹¹ / ₁₆ 10 ⁷ / ₈ 12 ¹ / ₁₆ 13 ¹ / ₄ 14 ⁷ / ₁₆ 15 ⁵ / ₈ 16 ¹³ / ₁₆ 18	R/AP-19 PAI No. of Bars 1/8° Bar	NEL W 2 15/16 13/8	19-AP-4 19-AP-2 /IDTH (inc 3 2 ¹ / ₂ 2 ⁹ / ₁₆	6 7 ches) 4 311/16 33/4	5 4 ⁷ / ₆ 4 ¹⁵ / ₁₆	Note: Inc 6 6 ¹ / ₁₅	D dudes 1/4' 7 71/4 75/16	0.046 (1/8" eac 8 8 ⁷ / ₁₆ 8 ¹ / ₂	0.072 ch side) fo 9 9 ⁵ / ₃ 9 ¹¹ / ₁₆	10 10 ¹³ / ₁₅ 10 ⁷ / _a	11 12 12 ¹ / ₁₅	12 13 ³ / ₁₆ 13 ¹ / ₄	13 14 ³ / ₈ 14 ⁷ / ₁₅ 28	(SR) and 14 15 ⁹ / ₁₆ 15 ⁵ / _a 29	15 16 ³ / ₄ 16 ¹³ / ₁₆	16 17 ¹⁵ / ₁ 18	s on press			0.933

 $3/16^\circ$ Bar $19^9/_{15}$ $20^9/_8$ $21^9/_{16}$ $22^3/_4$ $23^{15}/_{16}$ $25^1/_8$ $26^5/_{16}$ $27^1/_2$ $28^{11}/_{16}$ $29^7/_8$ $31^1/_{15}$ $32^1/_4$ $33^7/_{16}$ $34^5/_8$ $35^{13}/_{16}$



LAUREL WWTP Field Directive 1

BWC Date: 5-9-14

Materials

	***		<u> </u>	
3" Pit Run Gravel	\$6,25	YD	18	\$112.50
6" sch 80 PVC	\$18.04	ft	16	\$288.64
4000 psi Concrete	\$86.00	YD	0.25	\$21.50
		π YD	· · · · · · · ·	

Labor

	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Cost season 1 " 1			
Carpenter		\$43.32	hr	9	\$389.88
Operator		\$41.47	hr	4	\$165.88
Superintendant		\$45.00	hr	2	\$90.00

Equipment

·	and the state of t	<u></u>		
Komatsu 50	\$22.83	hr	1	\$22.83
Komatsu 380	\$54.26	hr	1	\$54.26
Wacker Plate	\$15.00	hr	1	\$15.00

Sub- Contractors

5	Subtota
ħ	<i>l</i> arkup
7	OTAL

\$1,160.49 \$197.28 **\$1,357.77**

Work Change Directive

			Noa
Date of Issuance	e: 3/19/14	Effective Date: _3	115/14
Project:	Owner:	1	wner's Contract No.:
Contract:	JEGGADR City OF Las	Da	ate of Contract:
Contractor:	baos Constauction		ngineer's Project No.:
	directed to proceed promptly wit	h the following cha	ange(s):
Item No.	Description		
	chance south LAD		
	ili Buldian. Elimo	nets stains	AND GOADS
	SIRB WALK Below DE	plead Due to a	amage to FF BLEV
	Extra Work consits	of Places.	ADD compacting
	allfind Fill AND	REform on A	L SIOR OF S. W AND JANA
	FIN to Be Paid WITC	TAND M SNCI	velin Reforman on 3
Attachments (કા ૧૨ . જે અમ્માન્ય તે કાર્યો (list documents supporting chang	(e): wonk consid	mede for concaste on An lend to Be port of the or
		Contract	
☐ Nona	for Work described herein to proce greement on pricing of proposed chasity to expedite Work described he	ange.	
	and Contract Time.		
Estimated cha	ange in Contract Price and Contr		
Contract Price	\$ (increase/decrease)	Contract Time	(increase/decrease)
			days
Recommended	for Approval by Engineer:		Date
Authorized for	Owner by:		Date
Received for C	Contractor by:		Date
Received by F	unding Agency (if applicable):		Date:
	EJCDC C-940 Worl	k Change Directive	Amenton Specifications Institute
Prepared by	the Engineers Joint Contract Documents Commit Page 1	tee and endorsed by the Con l of l	or across obecuses one mentice

LAUREL WWTP SL Line Time & Material

BWC Date: 5-9-14

	r	а	

10 JAHR ASKA SHIP III	6937 L			
3" Pit Run Gravel	\$6.25	YD	24	\$150.00
1" Bedding Gravel	\$7.45	YD	8	\$59.60
6" sch80 PVC	\$18.04	FT	6	\$108.24
6" mj solid sleeves	\$62.02	EA	2	\$124.04
6" mega-lug	\$38.35	EA	6	\$230.10
6" mj 45	\$55.47	EA	1	\$55.47
-				

Labor

		· · · · · · · · · · · · · · · · · · ·		
Superitendant	\$45.00	HR	5	\$225.00
Carpenter	\$43.32	HR	16	\$693.12
Laborer	\$34.46	HR	8	\$275.68
Operator	\$41.47	HR	6	\$248.82

Equipment

Komatsu 300 Excavator	\$116.08	HR	5	\$580.40
Komatsu 50 Excavator	\$22.83	HR	5	\$114.15
Komatsu 380 Loader	\$54.26	HR	5	\$271.30

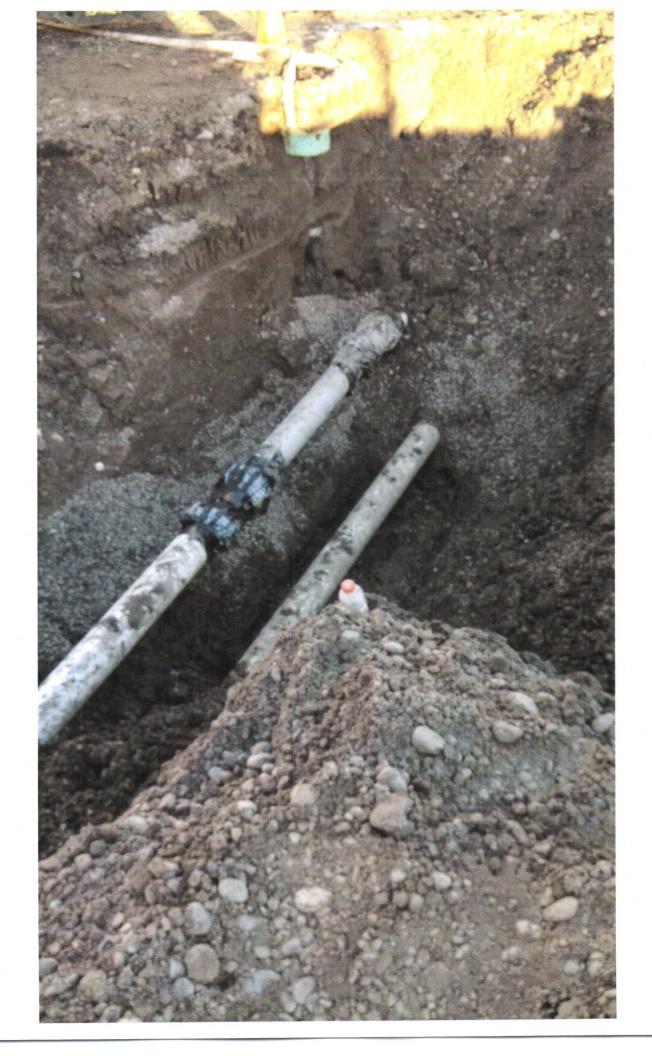
Sub- Contractors

Subtotal
Markup
TOTAL

\$3,135.92
\$533.11
40.000.00

\$3,669.03

	Williams Bro Co	nstructio	/ u	nstruction / Time & Material Sheet	eria	Sheet
Date	Work Description	Craft	Hours	Equipment	Hours	Materials
4/2/2014	6" SL Tie into existing 6" SL from	Superintendent	2	Komatus 300 Exec	5	3" Pit Run (24cy)
	pot holed 9-12-13 went off drawing C-12.	Carpenter	16	Komatus PC 50	2	1" Bedding (8 cy)
	The lines in the pot hole are actually	Operator	8	Komatus 380 Loader	2	6" Sch 80 Pvc (6')
	switched the S Line is the SL Line they	Laborer	9			6" Solid Sleeve Dressers (2 Each)
	crossed lines when installed in the 80's.					6" Mega Lugs (6 Each)
						45 Fitting (1 Each)
	City of Laurel noticed the tie in and told us					
	we are in the wrong line around 12:45pm.					
	We repaired line with 2 each 6" Solid Sleeve					
	Dressers and 6' of Sch 80 Pvc.					
	We will have to excavate line back to 45					
	roll 45 excavation will have to be deeper.					
	We were within a foot of final grade					
	will have to backfill and bed pipe again for					
	about 25'. Tie in will have to be hand					
	excavated now.					
	We had to 45 off of existing line and which should have tied straight in to the existing line this took extra time and materials both days.	d have tied straight	in to th	e existing line this took extra	a time a	nd materials both days.
	The above work was done on 4/2/14 and 4/3/14. (The original tie in was at 4'-8' when it ended up being 6'-10.)	. (The original tie in	was at	4'-8' when it ended up being	6'-10.)	
	During pot-holing per contract on 9-12-13 this lin	ie was identified as an 6" SL line	an 6" S	L line.		
Notes:						
This Time a	This Time and Material for this extra work due to line not bei	ing in the right location	tion			



Chad Hanson

From:

Barry Curtis [barrywbcbillings@gmail.com] Thursday, May 01, 2014 4:42 PM

Sent:

To: Cc: Chad Hanson; Neil Dezort 'Clay Pipinich'; 'Tawnya'

Subject:

Laurel WWTP

Attachments:

CCF05012014_0002.pdf

The cost for RFI 15 and 16 will be \$615 and \$765 respectfully. This includes our mark-up.



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6131 Homestead Blvd 2675 Overland Ave. PO Box 1934 Colstrip, MT 59323 TEL: (406) 748-4048

FAX: (406) 748-3135 cei@cei-online.com www.cei-online.com Billings, MT 59102 TEL: (406) 656-4365 FAX: (406) 656-4534 2401 S. Greely Hwy Cheyenne, WY 82003 Minot, ND 58701 TEL: (307) 426-4258 FAX: (307) 426-4259

4105 S. Broadway TEL: (701) 500-1007 FAX: (406) 748-3135

May 1, 2014

Williams Bros Construction

RE: Laurel WWTP - CEI COR 8: Add Circuit to Existing Effluent Flow Meter per RFI 15

Attn: Barry Curtis

CEI would like to submit the following pricing change:

Quote:

	Labor Hrs	Labor \$		Material	Equipment	Subtotal	MU	Totals
New Work	6		\$420	\$50	\$47	\$517	\$52	\$569
-			····					
	-		<u> </u>		· · · · · · · · · · · · · · · · · · ·		Total	\$569

Notes:

- 1) Price is valid for 30 days.
- 2) Proposal is based off straight time rates.
- 3) Proposal may impact project duration.

If you have any further questions please call me at 406-656-4365.

Respectfully,

Wade Smith PM/Estimator



MEMORANDUM

Date:

April 25, 2014

To:

Barry Curtis - Williams Brother's Construction, LLC

From:

Neil DeZort, El

Subject:

Request For Information #15

Question: Drawing E-23 note 1 addresses the existing effluent flow meter located in the UV building as being loop powered. The one that is currently installed appears to be 120 V powered with a loop. Please clarify if this is the correct meter and/or if there may be a need for a power circuit to be added.

This is the correct meter. Upon further investigation, it appears that this meter does require a 120V power source. Sheet E-23 shows a spare 1-inch conduit running from the existing effluent ultrasonic flowmeter to the SCADA panel SCP-SOLIDS (see tag "X"). The power shall be run in this spare conduit using two (2) - #14 AWG conductors and one (1) #14 – AWG ground. Clint Camper indicated he would install an additional fuse block in panel SCP-SOLIDS to feed the circuit.

ATTACHMENTS:

RFI#15

REQUEST FOR INFORMATION

PROJECT: LAUREL WWTP BNR UPGRADE		RFI NO.: 015
GREAT WEST ENGINEERING DATE: 4-23-14	WBC	PROJECT NO.: 1387
REQUEST: Electrician is requesting a question on the exUV building.	xisting effl	uent flow meter in the
Great West Engineering Signature	r <u>B</u> o	Contractor Contractor
REPLY:	All and the second seco	DATE:



Request For Information

8260 — Laurel WWTP

RFI Subject : UV Building Existing Ultrasonic Flow Power Circuit

To

Barry Curtis

Williams Brothers Construction, LLC.

RFI Number: 6 RFI Revision Number: 0

1031 Cerise Road Billings, MT 59101

Billings, MT 59101 406-259-9365 RFI Date 4/23/2014
Type Original RFI

Dated: 4/23/2014

barrywbcbillings@gmail.com

Return To

Wade Smith

CEI

647 South 18th Street West Billings, Montana 59102-7450

(406) 656-4365 (406) 656-4534 (FAX) wsmith@cei-online.com

Clarification Requested

Drawing E-23 note 1 addresses the existing effluent flow meter located in the UV building as being loop powered. The one that is currently installed appears to be 120v powered with a loop. Please clarify if this is the correct meter and/or if there may be a need for a power circuit to be added.

Schedule / Cost Impact

To mitigate schedule delay, return by 4/28/2014

This problem is possibly impacting our progress

This problem is possibly impacting our costs (other than schedule costs)

Please provide a written directive on how to proceed. Descriptions of materials and methods should be accompanied by drawings, sketches and specifications if not covered by applicable contract documents. Please re-review relevant submittals referenced above

Signed By:

Wade Keith Smith

Project Manager

Answer To Clarification



6131 Homestead Blvd 2675 Overland Ave. PO Box 1934 Colstrip, MT 59323 TEL: (406) 748-4048

FAX: (406) 748-3135 cei@cei-online.com www.cei-online.com

Billings, MT 59102 TEL: (406) 656-4365 FAX: (406) 656-4534

2401 S. Greely Hwy Cheyenne, WY 82003 Minot, ND 58701 TEL: (307) 426-4258 FAX: (307) 426-4259

4105 S. Broadway TEL: (701) 500-1007 FAX: (406) 748-3135

May 1, 2014

Williams Bros Construction

RE: Laurel WWTP - CEI COR 9: Provide and Gauge Isolators per RFI #16

Attn: Barry Curtis

CEI would like to submit the following pricing change:

Quote:

	Labor Hrs	Labor \$	Material	Equipment	Subtotal	MU	Totals
New Work	6	\$42	0 \$165	\$59	\$644	\$64	\$708
 	 			<u> </u>		Total	\$708

Notes:

- 1) Price is valid for 30 days.
- 2) Proposal is based off straight time rates.
- 3) Proposal may impact project duration.

If you have any further questions please call me at 406-656-4365.

Respectfully,

Wade Smith PM/Estimator



MEMORANDUM

Date:

April 28, 2014

To:

Barry Curtis - Williams Brother's Construction, LLC

From:

Neil DeZort, El

Subject:

Request For Information #16

Question: We sent pressure switches PSH 5101C and 5102C to be installed with the hypochlorite equipment. The vendor states that 316 SS diaphragm seals cannot be used with sodium hypochlorite. These are the ones approved per the spec and submittals. Please advise.

For the sodium hypochlorite switches, provide Chemline gauge isolators. Please see attached.

ATTACHMENTS:

- Chemline gauge isolator cut sheet
- RFI#16

Gauge Isolators

Chemline SG Series Gauge Isolators allow inexpensive pressure gauges, or any other pressure instrument to be used in corrosive services. The upper chamber (gauge side) is filled with a stable fluid such as glycol or glycerine[‡]. A diaphragm separates it from the lower chamber which receives the media under pressure.

The 1/2" gauge connection allows use of the popular 4" and 4-1/2" diameter gauges. Pressure switches or transmitters may also be installed. Customers can easily fill isolators and install their own gauges.

Isolate Pressure Instruments from Corrosive Media

Teflon• Diaphragm

Features

Easy to Mount Gauges

- It is easy to fill an isolator and field mount a gauge.
 No special equipment is required.
- Will accept popular 4" and 4-1/2" diameter gauges

Provision for Fill Port

 Housing may be drilled and tapped by Chemline or customer for a threaded fill port. This is used for filling isolator using a vacuum filling station

High Chemical Resistance

- Choice of body materials for a wide range of applications
- Teflon® PTFE bonded EPDM dished diaphragm for high chemical resistance and sensitivity

Heavy Duty Design for Safety

- PPG* top chamber
- Heavy wall connection ports



A With 2" gauge

B With 4-1/2" gauge

C With 2" back mount gauge

D With pressure transmitter

- † Other available inlet connections are 1/2" socket or 1/2" to 1" flanged.
- ‡ Other fluids are available for special applications such as chlorine service.

* Glass reinforced polypropylene.



Your Pipeline To Quality

PVC, PP, PVDF

SERIES: SG

INLET

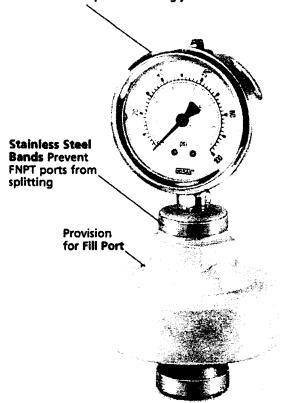
CONNECTION: 1/4" or 1/2" Threaded†

INSTRUMENT

CONNECTION: 1/4" or 1/2" Threaded

DIAPHRAGM: Tefion®

Optional Gauge Isolators are available alone or with gauge mounted and prefilled with glycol‡



REQUEST FOR INFORMATION

PROJECT: LAUREL WWTP BNR UPGRADE		RFI NO.: 016
GREAT WEST ENGINEERING DATE: 4-23-14	WBC	PROJECT NO.: 1387
REQUEST: Electrician is requesting direction on seals fo the sodium hypochlorite system.	or the high	pressure switches on
Owne	er <u>B</u>	Curtis Contractor
Great West Engineering Signature		
REPLY:		DATE:



Request For Information

RFI Date : 4/23/2014

Type: Original RFI

8260 — Laurel WWTP

RFI Subject: Pressure Switch PSH 5101C and PSH 5102C Diaphram Seals

RFI Revision Number: 0

RFI Number: 7

To

Barry Curtis

Williams Brothers Construction, LLC.

1031 Cerise Road Billings, MT 59101 406-259-9365

barrywbcbillings@gmail.com

Return To

Wade Smith

CEI

647 South 18th Street West Billings, Montana 59102-7450

(406) 656-4365 (406) 656-4534 (FAX) wsmith@cei-online.com

Clarification Requested

We sent pressure switches PSH 5101C and 5102C to be installed with the hypochlorite equipment. The vendor states that 316 SS diaphragm seals cannot be used with sodium hypochlorite. These are the ones approved per the spec and submittals. Please advise

Schedule / Cost Impact

To mitigate schedule delay, return by 4/28/2014. This problem is possibly impacting our progress.

This problem is possibly impacting our costs (other than schedule costs.)

Please provide a written directive on how to proceed. Descriptions of materials and methods should be accompanied by drawings sketches and specifications if not covered by applicable contract documents. Please re-review relevant submittals referenced above.

Signed By:

Wade Keith Smith

Project Manager

Answer To Clarification

Dated: 4/23/2014

WILLIAMS BROTHER CONST., LLC

1123 CERISE ROAD, BILLINGS, MT 59101 P.O. BOX #1459, BILLINGS, MT 59103 PHONE: 406-259-9395 FAX: 406-248-6695

May 22, 2014

Great West Engineering 115 North Broadway Suite 500 Billings, MT 59101

Re: Laurel BNR Upgrade weather delay

Chad.

Due to the all-time record snow fall and cold weather we are request a time extension to the contract for lost time. The attached daily reports are for lost days for certain portions of the critical path tasks as well as tasks that were delayed but had no impact as to the finish date.

These Days were incorporated into the contract schedule, incorporating delays to each tasked that was delayed. The schedule was allowed to expand for each structure that was affected and the resulting finish date is now December 22, 2014.

We are requesting that this time be incorporated into pending change order 2.

Thank you. Call or e-mail me if you have any questions or comments.

Sincerety

Barry Curtis- Project Mgr.

Prepared By	Clay Pipinich	DAILY FIEL	D REPORT	 ราสาราช สาราช (สาราช br/>(สาราช (สาราช br/>(สาราช (สาราช (ส (สาราช (สาราช /li>	Page 1 of 2
Job No. / Name	1387/Laurel			Date	10/3/2013
				Day	Thursday
Weather Conditions	Bright Sun	Clear X Overcas	st. X Rain	Snow	Rained about 2"
Temperature		32-49 X 50-69	70-84	85 - Up	Railled about 2
OWNER / ENGINEER	Still	X Moderate High	Humidity	Dry Moderate	X Humid
VISITORS TO JOB:	AI SIIE:	Chris Reed/GreatWest	(406) 581-7705		
			4.		
Name / Craft 1 Scott McDonald	Hours		Name / Cr	rit Hours	Work Item
2 Ed Sable	2	Uv Form Oil Slab Uv Form Oil Slab	B		
3 Jake Prevel	3	Uv Form Oil Slab	10		
4 Nick Bowen	3	Uv Form Oil Slab	11		
5		OTT OHIT OH OHD	1213		
6					
7			15		
8			16		
Name 1 Harris Rebar	# of Imp	Work	Name	#of Imp	Work
		Unloaded Rebar	7		
2			8		
4			9		
6	- 		10		
6			12		
Туре	Model	Status	Туре	Model	Status
1 PC 50 Komatus Mini			a 2000 Chevy 3/4		
2 380 Komatus Loader	_		7 Kawasaki Mule	5	2 each
3 New Holland Skid steer 4 Cat Blade	<u>'</u>		B Miller Welder		
5 Ford Water Truck			Rs8 Gehl Grad-	al	
31 Old Water Truck		<u> </u>	10	<u> </u>	
Product Description	PO#	Shipper Delive	ered by Inspected by	Disposition I	lotes / Remarks / Storage Area
1					The state of the s
22					<u> </u>
3					
4					
5	- —			- A - I	
				Naposition = A = Accept / N =	recisionnomial / K = Majact
	ork Item		Progress		Station / % Corr
1 See Attached					
2					
		·			
5					
6					
7					
8					
EVENTS:					
				<u></u>	
a) important Calls, b) important Cor	versations c) Extra	Work d) Safety Evaluation e) D	elays f) Changes in Work		

Wbc Formed up Oil Pit sallo rained out left early around 9:00am
Harris Rebar Dan unloaded a semi load of rebar with our grad-al
River Ranch No Work Onsite
GreatWest Not onsite today
Colstrip Electric Not onsite today
·

triuting 23 to 10 Company to the country	12-01-12-13				eran aras e ra gran Aras era	THE STATE OF THE S
Prepared By Cla	y Pipinich	DAILY FIELD F	REPORT	See # 2014. On propagate	stast vili i i firmar a	Page 1 of 2
· •	87/Laure				Date	11/21/2013
			-		Day	Thursday
Weather Conditions	Bright Sun	Clear X Overcast.	Rain	Snow		5 below morning
Temperature X	to 31	32-49 50-69	70-84	85 - Up		13 for a high
Wind Conditions	Still	X Moderate High	Humidity	Dry X	Moderate.	. Humid
OWNER / ENGINEER AT : VISITORS TO JOB:	SIIE:	Chris Reed/GreatWest (400	6) <u>581-7705</u>			
	· · · · · · · · · · · · · · · · · · ·					
Name / Craft 1 Scott McDonaid	Hours 6	Equip Maintained	Name /	/ Craft	Hours	Work Item
2 Ed Sable	10	Miles City	10			
3 Jake Prevel	0	Exec Gen Pad/Form	11			
4 Nick Bowen	6	Equip Maintained	12			
5 Colter Day	0	Exec Gen Pad/Form	13			
7						
8	 		15 16			
			10			
Name	# of Imp	Work	Nen	ne	#of Imp	Work
1 Harris Rebar	0	Weather Cold	7			
2 CEI	0	Weather Cold	8			
3			9			
5	 	<u> </u>	10			
6	 		11			
Туре	Model	Status	Тур	X 8	Model	Status
1 PC 50 Komatus Mini			6 2000 Chevy			
2 380 Komatus Loader			7 Kawasaki Mu			2 each
3 New Holland Skid steer 4 Cat Blade			Miller Welder Page Call Car			
5 Ford Water Truck	-		9 Rs8 Gehl Gn	ao-ai		
			10			
Product Description	PO#	Shipper Delivered b	y Inspected by	Disposition	N	otes / Remarks / Storage Area
1						
2						
3	•					,
5						
				Disposition = A	= Accept / N = F	lonconformiet / R = Reject
Work Its	em		Progre	69		Station / % Corr
2						
3						
4				***************************************		
5						
6						
8						
EVENTS:			-			
		· · · · · · · · · · · · · · · · · · ·				
	-4\ F.A-	Work d) Safety Evaluation e) Delays	6 Changes in Work			

Vbc hauled mini truck and mule to the yard will not run, loaded blankets up from yard and unloaded Uv Equipment today also	
larris Rebar No Work	
Colstrip Electric No Work	
GreatWest Onsite today on nothing going on	
FORTY COLL. Crimical Cody on Howling going on	
	<u> </u>
·	

	Ţ	WILLIAMS	BRO. C	ONSTRUCT	ΓΙΟΝ, L	L.C		
a a constant	lay Pipinid	h DAI	LY FIELD	REPORT		<u> </u>	Page	1 of 2
Job No. / Name 1	387/Laure	I WWTP		•		Date		11/22/2013
				-		Day		Friday
Weather Conditions	Bright Sun		X Overcast.	Rain	Snow		5 below	morning
Wind Conditions	Still	32-49 X Moderate	50-69 High	70-84 Humidity	85 - Up			a high
OWNER / ENGINEER AT	SITE:	Chris Reed/G			Dry	X Moderate		Humid
VISITORS TO JOB:				00/ 501-7705				
				45 = -				
Name / Craft	Hours		WEC	CREW				
1 Scott McDonald	6	Equip Maintair	ned	Nam 9	e / Craft	Hours		Work Item
z Ed Sable	0	Miles City		10				
3 Jake Prevel 4 Nick Bowen	0	Exec Gen Pac		11				····
5 Coiter Day	6	Equip Maintair		12				
6	 	Exec Gen Pac	VFORM	- ¹³				
7	 		·	15	······································	_		
8				18				
***				RACTORS				
Name 1 Harris Rebar	# of imp	Wa			eme	#of Imp		Work
2 CEI	0	Weather Cold Weather Cold		7				
3	1	TVCaulei Colo		8				
4				10				
5				11				
6				12				
•		•		PMENT		1,194		
Туре	Model	State	ue '	1 7		1		Status
PC 50 Komahie Mini					уре	Model		Status
PC 50 Komatus Mini 380 Komatus Loader				a 2000 Chevy	/ 3/4 Ton		0h	Status
380 Kornatus Loader New Holland Skid steer				6 2000 Chevy 7 Kawasaki M	/ 3/4 Ton fules		2 each	Sau
380 Kornatus Loader New Holland Skid steer Cat Blade				a 2000 Chevy 7 Kawasaki M a Miller Weld	/ 3/4 Ton fules er		2 each	Sizius
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck				a 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G	/ 3/4 Ton fluies er frad-al			
380 Komatus Loader New Holland Skid steer Cat Blade Ford Water Truck	**	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er frad-al		tional infor	meton)
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description	PO#			6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er frad-al		tional infor	meton)
380 Komatus Loader New Holland Skid steer Cat Blade Ford Water Truck	**	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er fred-al		tional infor	meton)
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description	**	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er fred-al		tional infor	meton)
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description	**	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er fred-al		tional infor	
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description	**	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki M 8 Miller Weld 9 Rs8 Gehl G 10	/ 3/4 Ton fluies er fred-al		tional infor	meton)
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description	**	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 Inspected by	/ 3/4 Ton fluies er trad-al Dispositi		Monel Infor	meton)
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	劉제 인국어	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Madign) ks/Storage Area / R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It See Attached	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	meton)
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380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Mation) ks/Storage Area // R+Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Metion) ks/Storage Area
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Madigory) ks / Storage Area / Re Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Madigor) ks / Storage Area / R+ Reject
380 Kornatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description Work It	PO#	Wy EN	Delivered	6 2000 Chevy 7 Kawasaki N 8 Miller Weld 9 Rs8 Gehl G 10 10 10 Inspected by	/ 3/4 Ton fluies er frad-al Dispositi	Be Sack for add	Monel Infor	Madigor) ks / Storage Area / R+ Reject

DAILY FIELD REPORT - CONTI Wbc Equipment main, loaded blankets	INUED 1387 - Laurel WWT s up from yard		
narris Rebar No Work			
Colstrip Electric No Work			
GreatWest			
		*	
			 ·

Prepared By	Clay Pipinich	DAILY FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel				Date	12/2/2013
					Day '	Monday
Weather Conditions	Bright Sun	Clear X Overcast.	X Rain	70		
Temperature	to 31	X 32-49 50-69	70-84	Snow 85 • Up		Rained all day
Wind Conditions	Still	X Moderate High	Humidity		Moderate	X Hurnid
OWNER / ENGINEER	AT SITE:	Chris Reed/GreatWest (4	06) 581-7705			
VISITORS TO JOB:						
******			-			
21100		All the control of th				
Name / Craft 1 Scott McDonald	Hours 9	Thickener Heat & Cover	Name /	Craft	Hours	Work Item
2 Ed Sable	6 1/2	Thickener Heat & Cover	- <u></u>		 	
3 Jake Prevel	9	Uv Metal Building	10		 	
4 Nick Bowen	5 1/2	Uv Metal Building	12			
5 Colter Day	9	Uv Metal Building	13		 	
6					1	
7			15			
8			16			
Name 1 Harris Rebar	# of Imp	Work	Nam		#of Imp	Work
2 CEI	0		7		 	
2 <u>0L1</u>			8		+ +	
3			9		 	
5			10		 	
6			12		 	
Туре	Model	Status	Тур	a a	Model	Startus
1 PC 50 Komatus Mini			6 2000 Chevy 3			
2 380 Komatus Loader			7 Kawasaki Mu			2 each
3 New Holland Skid stee	r L		Miller Welder			
4 Cat Blade			Rs8 Gehl Gra	ad-al		
5 Ford Water Truck			10	***		
Product Description	PO#	Shipper Delivered	d by Inspected by	Disposition	N-	otes / Remarks / Storage Area
1		· ——				
2						
3		<u> </u>				
5						
				Disposition =	A = Accept / N = N	ioncomormist / R = Raject
	Vork Item		Progre	58		Station / % Con
1 See Attached						
3						
4						
5						· · · · · · · · · · · · · · · · · · ·
6						
7						
8						
EVENTS:						
						
Rained all day job site	e is really mud	dy, now it going to freeze	e tomorrow ho JO	ÀÍ.		- London de la companya de la compan
				· 	<u></u>	
a) Important Calls b) Important Co	onversations c) Ext	ra Work d) Safety Evaluation e) Dela	ays 1) Changes in Work			

and the state of the state of the graph of the state of the	
Wbc Building heat and cover tent over Thickener Slab because Ironworker did not finish rebar last week now we are until weather changes, working on Uv Building trims for walls panels, lifted rebar mat with crane and replaced Dobie's	delayed and will have to
until weather changes, working on UV Building trims for walls panels, lifted repar mat with crane and replaced Dobie's	
Columbia Basin Rebar No work onsite	
Colstrip Electric No work onsite	
GreatWest Onsite off and on site today	
	<u>-</u>

Bloder Cook and analysis and its reco					The production of the second		manadata Pistralian	97 H3 V P450	
Prepared By	Clay Pipinich		Y FIELD			* 2001 St. 151,0704-00	eren er er gift bereiten billiogen fil	Page	1 of 2
Job No. / Name	1387/Laurel						Date		12/3/2013
				-			Day		Tuesday
Weather Conditions	Bright Sun	Clear	Covercast.	Rain	🔽	Snow —		Co	old
	X to 31	32-49	50-69	70-84		85 - Up			
Wind Conditions OWNER / ENGINEER	Still	X Moderate	High	Humidity	-	Dry	Moderate.	X I	lumid
VISITORS TO JOB:	AI SHE:	Chris Reed/Gr	eatwest (4)	6) 681-770	5				
		· · · · · · · · · · · · · · · · · · ·							
			·						
Name / Craft 1 Scott McDonald	Hours 8	Thk Brick Led		9	Name / Cr	raft	Hours		Work Item
₂ Ed Sable		No Work / We		10			-		
3 Jake Prevel	8	Thk Brick Led		1					
4 Nick Bowen		No Work / We		12					
s Colter Day	8	Thk Brick Led	<u>je</u>	13					
7				15					
8	* ****			18					
Name	# of imp	Wo	rk		Name		#of Imp		Work
1 Harris Rebar 2 CEI	0			7					
2 QEI	- 			- 8					
4				10					
5				11					
6				12					
Type 1 PC 50 Komatus Mini	Model	Stat	US .	2000 (Type Chevy 3/	4 Ton	Model		Status
2 380 Komatus Loader					saki Mule			2 each	
3 New Holland Skid steer	-			a Miller					
4 Cat Blade				Rs8 G	ehl Grad	j-al			
5 Ford Water Truck				10		,			
Product Description	PO#	Shipper	Delivered	hu laana	cted by	Disposition		otes / Perso	rks / Storage Area
1		Эгардаг	Destrosqu	оу піврої	oled by	Cisposiucii		USOS / INGINE	iks / Swage Alea
2									
3	_								
4			*****						
5	_					Disposition = A	= Accept / N =	Vonconformist	/ R = Relect
	ork Item				Progress				Station / % Corr
1 See Attached									
3				*					
4									
5									
8		****							
7									
EVENTS:									
			17.41						
<u> </u>									
			······································						
a) Important Calls b) Important Co	enversations c) Extr	a Work d) Safety Ev	aluation e) Dela	rs f) Changes is	n Work				

Wbc Building brick ledge for the Thickener walls in shop	
Columbia Basin Rebar No work onsite	
Colstrip Electric No work onsite	
Cosulp Electric No work offsite	
GreatWest No work onsite	

ម្រាស់ ស្រួង នេះ ស្រួង ស្រ

Prepared By	Clay Pipinich		The second secon	1977 Commission Policy materials	Page 4 of 2
Job No. / Name	1387/Laurel		- 1/21 VI(I	D-4-	Page 1 of 2
		70 70 11		Date Day	12/4/2013
Weather Conditions	Bright Sun				Wednesday
Temperature	Y to 31	Clear X Overcast 32-49 50-69			Cold
Wind Conditions	Still	X Moderate High	Humidity	- Up Moderate	Snowed 10" / 5 below X Humid
OWNER / ENGINEER		Chris Reed/GreatWest		L IMPOGRAGE	· LA Humu
VISITORS TO JOB:			100/001-7700		
				······································	-
Name / Craft 1 Scott McDonald	Hours 8	Misc shop	Name / Craft	Hours	Work item
2 Ed Sable	8	Misc shop	•		
3 Jake Prevel	8	Misc shop	10		
4 Nick Bowen	Ö	No Work / Weather	11		
5 Colter Day	8	Misc shop	1213		
6		i i i i i i i i i i i i i i i i i i i			
7			15		· · · · · · · · · · · · · · · · · · ·
8			16		·
Name	# of Imp	Work	Name	#of Imp	Work
1 Harris Rebar	0	······································	7		
² CEI	0		8		
3			9		
<u>*</u>			10		
5			11		
			12		
Туре	Model	Status	7	Media	
1 PC 50 Komatus Mini	MOGRA	Signal	e 2000 Chevy 3/4 To	Model	Status
2 380 Komatus Loader			7 Kawasaki Mules	011	2 each
3 New Holland Skid stee	r		Miller Welder		2 68011
4 Cat Blade			Rs8 Gehl Grad-al		
5 Ford Water Truck			10		
Product Description	PO#	Shipper Deliver	ed by Inspected by Dis	position i	lotes / Remarks / Storage Area
1	_				·
2					
3	-				
	-		Disco	Selfion = A = Accept / N =	Nonconformist / R = Reject
			* **		
	ork Item		Progress		Station / % Cor
1 See Attached					
2					
3					
-					
•					
7					
8					
EVENTS:					
a) (manufact Only b) (manufact		Miled at Open with the com-	In a A Ot an and a Maria		<u> </u>
a) important Cais b) important Co	nversations c) Extra	Work d) Safety Evaluation e) De	lays 1) Changes in Work		

Wbc Misc Shop to cold at the job
Columbia Basin Rebar No work onsite
Colstrip Electric No work onsite
GreatWest No work onsite
Greativest 140 Work Orisite

Prepared By	Clay Pipinich				Page 1 of 2
Job No. / Name	1387/Laurel			Date	12/5/2013
See . Ver F TWING				Day	Thursday
Weather Conditions	Deleta Co				
Temperature	Bright Sun X to 31	Clear X Overcast. 32-49 50-69	Rain Snow 85 - Up		Cold 8 below
Wind Conditions	Sui	X Moderate. High	Humidity Dry	Moderate	X Humid
OWNER / ENGINEER		Chris Reed/GreatWest (40	- Barraguel -		
VISITORS TO JOB:					
Name / Craft	Hours	NR	Name / Craft	Hours	Work Item
Scott McDonald Ed Sable	8	Misc shop	9		
3 Jake Prevel	8 8	Misc shop Misc shop	10		
4 Nick Bowen	0	No Work / Weather	11 12		
5 Colter Day	8	Misc shop	13		
6		IVIIGO GITOP	- I "		
7			15		
8			16		
Name	# of imp	Work	Name	#of imp	Work
1 Harris Rebar	0		7		
2 CEI	0		8		
3			9		
4			10		
5			11		
8			12		
Type	Model	Status	Туре	Model	Status
1 PC 50 Komatus Mini	<u> </u>		6 2000 Chevy 3/4 Ton		
2 380 Komatus Loader			7 Kawasaki Mules		2 each
3 New Holland Skid stee 4 Cat Blade	r		8 Miller Welder		
5 Ford Water Truck	<u> </u>	<u> </u>	Rs8 Gehl Grad-al		
S FOID WATER TRUCK			10		
Product Description	PO#	Shipper Delivered	by Inspected by Disposit	tion N	otes / Remarks / Storage Area
1	10#	Onppo Domerou	napoted by Diepoer	1	Olds / Namenta / Oldrage / Les
2					
3				-	
4					
5	-				
			Disposition	= A = Accept / N =	ionconformist / R = Reject
	Vork Item		Progress		Station / % Con
1 See Attached					
-					
5					
6					
7					
8					
EVENTS:					
•					· · · · · · · · · · · · · · · · · · ·
a) Important Calls b) Important Co	onversations c) Ext	a Work d) Safety Evaluation e) Dela	ys f) Changes in Work		

Wbc Misc Shop to cold at the job, drop ceiling in office		_			
Wbc Misc Shop to cold at the job, drop ceiling in office					
Columbia Basin Rebar No work onsite					
Colstrip Electric No work onsite					
GreatWest No work onsite	_ .				
					<u></u>
		··			
		····.			
					-
				<u> </u>	
- TO TAKE					

						er likatet er en		Acata co este in
Prepared By	Clay Pipinich				To The Control of Control of States of the Control		Page	1 of 2
Job No. / Name	1387/Laurel			VI()		Date	ı ayç	12/9/2013
						Day		Monday
Weather Conditions	Bright Sun	Clear X Over	cast.	Rain	Snow		Co	
Temperature	X to 31	32-49 50-69) <u> </u>	70-84	85 - Up			th the wind
Wind Conditions	Still	Moderate X High		umidity	Dry X	Moderate.	<u>_</u>	lumid
OWNER / ENGINEER / VISITORS TO JOB:	AT SITE:	Chris Reed/GreatWe	st (406)	<u>581-7705</u>				
VIOLITORIO TO COD.					<u> </u>			
Name / Craft 1 Scott McDonald	Hours	114			e / Creft	Hours		Work Item
2 Ed Sable	9	Heat and Cover Thic Misc shop		9				
3 Jake Prevel	2 1/2	Heat and Cover Thic		11				
4 Nick Bowen	2 1/2	Heat and Cover Thic		12				
s Colter Day	2 1/2	Heat and Cover Thic	kener	13				
6								
8				15	" 			
0			,	16				
Name	# of Imp	Work		N:	ame	#of imp		Work
1 Harris Rebar	0			7				
² CEI	0			8				
3				9				
<u> </u>				10				
5				11 12 ·	***************************************			
Type	Model	Statue		Ť	ype	Model		Status
PC 50 Komatus Mini				a 2000 Chev				
2 380 Komatus Loader				7 Kawasaki N			2 each	
3 New Holland Skid steer 4 Cat Blade	·			Miller Weld				
5 Ford Water Truck				Rs8 Gehl G	raq-ai	ļ <u> </u>		
TOTAL TOTAL								
Product Description	PO#	Shipper De	alivered by	Inspected by	Disposition		lotes / Rema	rks / Storage Area
1								
2				_				
3		<u> </u>		_				
<u> </u>				-				
0					Disposition = A	= Accept / N =	Nonconformist	/ R = Reject
	ork item			Prog	ress			Station / % Con
1 See Attached				-				
3							- -	
4								
5								
6				W				
7			,					
EVENTS:						· 		
				· · · · · · · · · · · · · · · · · · ·				
Left at 12:00 noon to	cold with the	wind						
								
	····							

a) Important Calls b) Important Conversations c) Extra Work d) Safety Evaluation e) Delays f) Changes in Work

Prenered Du	Clau Di-I-1-	WILLIAMS BRO.	CONSTRUCT	ON, LL	.C	
Prepared By Job No. / Name	Clay Pipinio		DREPORT			Page 1 of
JOD 140. / 148HIÇ	1387/Laure	WWTP			Date	12/6/20
	<u></u>				Day	Frida
Weather Conditions	Bright Sun			Snow		Cold
l'emperature			[70-84	85 - Up		8 below
	Still		Humidity	Dry [Moderate	X Humid
OWNER / ENGINEER VISITORS TO JOB:	RATSITE:	Chris Reed/GreatWest	(406) 581-7705			
			C CREW			
Name / Craft	Hours	1	Name /	Craft	Hours	Work He
Scott McDonald	8	Misc shop	9			
d Sable	8	Misc shop	10			
lake Prevel	8	Misc shop	11			
Vick Bowen	0	No Work / Weather	12	TANK.		
Colter Day	8	Misc shop	13			
			15			
			16		1	
	EWE J	30000	NTW CTORS	- 1 T		entre de la companya
Name	# of Imp	Work	Nan	10	#of imp	Work
iarris Rebar	0		7	· · · · · · · · · · · · · · · · · · ·		TOR
EI	0		8		" 	
					+ +	
			10		+	
			11		+	
			12		 	
		EM	JIPMENT			
Туре	Model	Status	- T - T - T - T - T - T - T - T - T - T		1 80-4-4	
C 50 Komatus Mini			6 2000 Chevy		Model	Status
					1 1	
80 Komatus Loader			2 Kanasaki BA	des	1.)
80 Komatus Loader lew Holland Skid stee	er		7 Kawasaki Mu			2 each
lew Holland Skid ste at Blade	er		a Miller Welder			2 each
80 Komatus Loader lew Holland Skid ster at Blade ord Water Truck		**************************************	Miller Welder Rs8 Gehl Gra 10 Rs8 Gehl Gra Rs8 Gehl Gra	id-al	a Sack for age	on a second month.
lew Holland Skid ster at Blade		Shipper Deliver	a Miller Welder a Rs8 Gehl Gra	id-al	a Sack for age	
lew Holland Skid ster Lat Blade ond Water Truck Product Description	Pos	Shipper Debver	a Miller Welder PRS8 Gehl Gra 10 PEN BOY INSPEC	Claposion	a back for acta	on a second month.
lew Holland Skid ster cat Blade ord Water Truck Product Description		Shipper Debver	Miller Welder Rs8 Gehl Gra 10 Rs8 Gehl Gra Rs8 Gehl Gra	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
ew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Torius (neormanory) tee / Remerks / Storage Miconomist / R = Reper
ew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Torius (neormanory) tee / Remerks / Storage Miconomist / R = Reper
ew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Torius (neormanory) tee / Remerks / Storage Miconomist / R = Reper
ew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Torius (neormanory) tee / Remerks / Storage Miconomist / R = Reper
ew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster at Blade ord Water Truck Product Description	PO#	Shipper Debver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Torius (neormanory) tee / Remerks / Storage Miconomist / R = Reper
lew Holland Skid ster cat Blade ond Water Truck Product Description	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Serial (recommendor)) les / Remerks / Storage
lew Holland Skid ster cat Blade ord Water Truck Product Description Be Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster Sat Blade ord Water Truck Product Description ae Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster cat Blade ord Water Truck Product Description See Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
New Holland Skid ster Cat Blade ord Water Truck Product Description	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster cat Blade ord Water Truck Product Description See Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
New Holland Skid ster Cat Blade ord Water Truck Product Description	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster cat Blade ord Water Truck Product Description Be Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist
lew Holland Skid ster Sat Blade ord Water Truck Product Description ae Attached	PO#	Shipper Deliver	a Miller Welder Rs8 Gehl Gra 10 Inspected by	Disposition Disposition	a back for acta	Terres (Storage les / Remarks / Storage Miconomist / R = Regist

DAILY FIELD REPORT: CONT DE Misc Shop to cold at the job, dro	p ceiling in office		
lumbia Basin Rebar No work onsite			
Istrip Electric No work onsite			
eatWest No work onsite			

Wbc Covering up Thickener slab for heat and cover, to windy will have to wait until tomorrow and we will start heating slab
Columbia Basin Rebar No work onsite
Colstrip Electric No work onsite
GreatWest No work onsite, working in the main office

Properties Daily File Daily File DREPORT Job No. / Name Clay Pipinich Daily File DREPORT Date Day Monday Mo		ab Andraite de A			Chouse to historic do d	and the said tank on the sections of
Job No. / Name 1387/Laurel W/TF Date 16/2014 Months	Prepared By C	lay Pipinich	DAILY FIEL	D REPORT	1 K 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Page 1 of 2
Westher Conditions Seph Sun Court. Novercest Seph Sun Se					Date	
Total						
Temperature X 10 31			X Clear X Overcasi	Rain Snow		
OWNER / ENGINEER AT SITE: VISITORS TO JOB: Sent Model	Temperature		32-49 50-69	70-84 85 - Up		25 below with the wind
Name / Cert Hours Hours South McDonald 8 1/2 Blower Bid Demo Name / Cert Hours Work flow 2 Ed Sable 0 No Work 19 3 Jake Prevel 5 1/2 Blower Bid Demo 19 4 Nick Bowen 8 1/2 Blower Bid Demo 19 5 Colter Day 8 1/2 Blower Bid Demo 19 5 Colter Day 8 1/2 Blower Bid Demo 19 6 Colter Day 8 1/2 Blower Bid Demo 19 7 16 19 8 Name # of Imp Work Name # of Imp Work 8 Name # of Imp Work Name # of Imp Work 9 CEI 0 5 5 9 10 10 10 11 11 11 11 12 12 12 13 14 13 14 15 14 15 15 15 16 16 16 17 17 17 18 17 18 19 19 19 19 C 50 Kornatus Mini 2 390 Kornatus Loader 7 Kewasaski Mulos 2 each 19 New Holland Skid steer 8 Miller Welder 19 2 See Attached 7 Read Searl Grad-al 10 2 Froduct Description FO # Shipper Dalivered by Evaporation Notes / Remerta / Storage Area Work Item Progress Stefan / K. Cert 2 See Attached 10 10 2 This weather is really slowing things down, wind, temps and show This weather is really slowing things down, wind, temps and show This weather is really slowing things down, wind, temps and show This weather is really slowing things down, wind, temps and show					X Moderate.	. Humid
Name / Creft		SITE:	Chris Reed/GreatWest	(406) 581-7705		
1 Scott McDonald 3 1/2 Blower Bid Demo 1 2 Ed Sable 0 N Work 10 3 Jake Prevel 8 1/2 Blower Bid Demo 11 5 Nick Bowen 8 1/2 Blower Bid Demo 12 5 Coller Day 8 1/2 Blower Bid Demo 12 5 Coller Day 8 1/2 Blower Bid Demo 13 6						
1 Scott McDonald 3 1/2 Blower Bid Demo 1 2 Ed Sable 0 N Work 10 3 Jake Prevel 8 1/2 Blower Bid Demo 11 5 Nick Bowen 8 1/2 Blower Bid Demo 12 5 Coller Day 8 1/2 Blower Bid Demo 12 5 Coller Day 8 1/2 Blower Bid Demo 13 6						
2 Ed Sable	Name / Craft		DI		Hours	Work Item
3 Jake Prevel 8 1/2 Blower Bid Demo 10 10 10 10 10 10 10 10 10 10 10 10 10						
A Nick Bower S Cotter Day 8 1/2 Blower Bid Demo 15 16 Name 8 of Imp Work Name 1 PC 50 Kornatus Mini 2 380 Kornatus Loader 3 New Holland Skid steer 4 Cast Blace 9 R88 Gehl Grad-ell 5 Ford Water Truck Product Desorbition PO 8 Shipper Delivered by Disposition Motes / Rementa / Stornge Ares Disposition - A - 700001/N - Norcentresist / N - N - N - N - N - N - N - N - N - N					-	
S Cotter Day 8 1/2 Blower Bid Derno 19 10 10 10 10 10 10 10 10 10 10 10 10 10						
Name # of limp Work Name # of limp Work Name # of limp Work Harris Reber 0						
Name # of limp Work Name # of limp Work Name # of limp Work Harris Reber 0	6					
Name	7			15		
1 Hamis Rebar 0 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8			16		
1 Hamis Rebar 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Name	di of loan	101-4-			
2 CEI 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			YYQIK		#Of Imp	Work
Type Model Status Type Model Status Type Model Status Type Model Status Type Model Status 1 PC 50 Kornatus Mini						
Type Model Status Type Model Status Type Model Status PC 50 Kornatus Mini 2 380 Komatus Loader 3 New Holland Skid steer 4 Cat Blade 5 Ford Water Truck 5 Product Description PO 8 Shipper Delivered by Inspected by Disposition Notice / Ramarks / Storage Area Disposition - A - Accept / N - Nonconformed / N - Naged Work Nam Progress Station / % Con See Attached Work Nam Progress Station / % Con See Attached Work Nam Progress Station / % Con See EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind)						
Type Model Status Type Model Status Type Model Status PC 50 Kornatus Mini 3 30 Komatus Loader New Holland Skid steer Cat Blade Ford Water Truck Product Description PO # Shipper Delivered by Irreposted by Disposition Notes / Remarks / Storage Ares Deposition - A = Accept / N = Nonconforminit / N = Reject Work item Progress Station / % Con See Attached Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This wearther is really slowing things down, wind, temps and znow	4					
Type Model Status Type Model Status 1 PC 50 Kornatus Mini	5			11		
1 PC 50 Kornatus Mini	6			12		
1 PC 50 Kornatus Mini						
2 380 Komatus Loader 3 New Holland Skid steer 4 Cat Blade 5 Ford Water Truck 5 Ford Water Truck 10 Product Description PO # Shipper Delivered by Inspected by Disposition Notes / Remarks / Storage Area 1 Disposition - A = Accept / N = Nonconformati / N = Reject Work Nam Progress Station / % Con 1 See Attached 3 Work Nam Progress Station / % Con 4 See Attached 5 Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow		Model	Status		Model	Status
3 New Holland Skid steer 8 Miller Welder 9 RS8 Gehl Grad-al 10 10 10 10 10 10 10 1		_				2 aceh
Cat Blade Ford Water Truck Product Description PO # Shipper Delivered by Inspected by Disposition Notes / Remarks / Storage Area Disposition = A = Accept / N = Nonconformat / N = Reject Work Norm Progress Station / % Con See Attached Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow						2 each
Froduct Description PO# Shipper Delivered by Inspected by Disposition Notes / Remarks / Storage Area Product Description PO# Shipper Delivered by Inspected by Disposition Notes / Remarks / Storage Area Disposition = A = Accept / N = Nonconformat / N = Reject Work Nam Progress Station / % Con See Attached See Attached Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow						
Disposition = A = Accept/N = Nonconformist / N = Reject Work Nam Progress Station /% Con 1 See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	5 Ford Water Truck					
Disposition = A = Accept/N = Nonconformist / N = Reject Work Nam Progress Station /% Con 1 See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow						
Work Nam Progress Station / % Con See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	Product Description	PO#	Shipper Delive	red by Inspected by Dispositi	on I	lotes / Remarks / Storage Area
Work Nam Progress Station / % Con See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	1					
Work Nam Progress Station / % Con See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	2					
Work Nam Progress Station / % Con See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	4	·				
Work Nam Progress Station / % Con See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	5		-			
See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow				Disposition	= A = Accept / N =	Nonconformist / R = Reject
See Attached 2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow						
2 3 4 5 6 7 8 EVENTS: Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow		Nem		Progress		Station / % Con
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow				·		
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	3				**	
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	4					
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	5					
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	6					————————————————————————————————————
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	7					
Wind 20 mph up to 35 mph gusts - (20 to 28 below with the wind) This weather is really slowing things down, wind, temps and snow	EVENTS:					
This weather is really slowing things down, wind, temps and snow						
This weather is really slowing things down, wind, temps and snow	Wind 20 mph up to 35 m	ph gusts -	(20 to 28 below with th	e wind)		
		.1. 1				
a) Impactant Colly h) Impactant Consumations of Euto Made all Society Europeation of Dalays & Observed in Made	inis weather is really !	slowing this	ngs down, wind, temps	and snow		
grindukuru-cas urindukuru Conversedore Create vyor orseniyeddi eldany. Ti Changes ii vyor	a) Important Calls b) Important Conve	raetions c) Extr	a Work d) Safety Evaluation A) D	elays fi Changes in Work		

Wbc working on demo in the Blower Building of everything we can and went over items with the Plant	Operators
(to windy to work out side)	
Columbia Basin Rebar No work onsite	
Colstrip Electric No work onsite	
GreatWest onsite today office work, Eng asked if we talked to the COL about salvage of misc equipm pulled aside everything they wanted	ent. We did before Christmas break i
pulled aside everyuring triey warted	

	are not to the second				
Prepared By	Clay Pipinich	DAILY FIELD	REPORT		Page 1 of 2
Job No. / Name	1387/Laurel	WWTP		Date	1/7/2014
				Day	Tuesday
Weather Conditions	Bright Sun	X Clear X Overcast.	Rain Snow		
Temperature		X 32-49 50-69	70-84 85 - Up		
Wind Conditions		X Moderate. High		(Moderate	Humid
OWNER / ENGINEER		Chris Reed/GreatWest (4			
VISITORS TO JOB:	,,,				
Name / Craft	Hours		Name / Craft	Hours	Work Hem
Scott McDonald	9	Blower Demo/UV Roof	9		
2 Ed Sable	0	No Work	10		-
3 Jake Prevel	9	Blower Demo/UV Roof	11		
4 Nick Bowen	9	Blower Demo/UV Roof	12		
5 Colter Day	9	Blower Demo/UV Roof	13		
6					
7			15	 	
8		<u> </u>	16		
		AB11	Na	#of Imp	Work
Name	# of imp	Work	Name	qui ion	TOR
1 Harris Rebar	0		7	+	
² CEI			8		
3			9		
4			10	 	
5			11	_	
6			12		
Type	Model	Status	Type	Model	Status
1 PC 50 Komatus Mini			8 2000 Chevy 3/4 Ton		2b
2 380 Komatus Loader			7 Kawasaki Mules		2 each
3 New Holland Skid stee	er		8 Miller Welder		
4 Cat Blade			Rs8 Gehl Grad-al		<u> </u>
5 Ford Water Truck			10		
	20.4		ed by Inspected by Disposition		łotes / Remarks / Storage Area
Product Description	PO#	Shipper Defiven	ed by Inspected by Disposition	n r	Antes I Leuralia (1911) antes Lista
1					
2					···
3					
4	_				
5			Disposition	- A - Accept / N -	Nonconformist / R = Reject
	Work Item		Progress		Station / % Co
1 See Attached					
2					
3					
4					
5					
6					
7					
8					
EVENTS:					
Went over with Rob	COL operator	for demo Blower Buildin	g plan he had no problems, w	anted to k	eep 4 valves and Air
Pump					
-					
This weather is rea	lly slowing th	ings down, wind, temps	and snow		
a) Important Calls b) Important (Conversations c) Ex	tra Work d) Safety Evaluation e) Do	elsys f) Changes in Work		

le que la company					
Wbc working on	demo in the Blower Building v r off of Thickener Slab Ironwor	we are far as we can g	o, working on UV Meta	Building roof system	
took ground neater	Off of Inickener Slab Ironwor	ker said he would have	e a crew here tomorrov	v for wall steel	
Columbia Basin Re	ebar No work onsite	•			
Colstrip Electric	oneite shut nowns off and disc				
	onsite shut power off and disc	connected Air pump to	Sec Clariflers, will not l	be onsite until next week	
GreatWest onsit	te today office work				
		-1			
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		<u>-</u>			

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Prepared By	Clay Pipinich	DAILY FIELD R	REPORT		Page 1 of 2
Job No. / Name	1387/Laurel			Date	1/10/2014
505 110.7 110.110	10077.0041.07		•	Day	Friday
Weather Conditions	Bright Sun	Clear X Overcast.	Rain Snow		
Temperature		X 32-49 50-69	70-84 85 - Up		
Wind Conditions		X Moderate High		X Moderate.	. Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/GreatWest (406	3) 581-7705		
VISITORS TO JOB:					
Name / Craft	Hours		Name / Craft	Hours	Work item
1 Scott McDonald	4 1/2	Thickener Form Walls	9	1,100	
2 Ed Sable	4 1/2	Thickener Form Walls	10		
3 Jake Prevel	4 1/2	Thickener Form Walls	11		
4 Nick Bowen	4 1/2	Thickener Form Walls	12		
5 Colter Day	4 1/2	Thickener Form Walls	13		
8					<u> </u>
8			16		
0			10		
Name	# of Imp	Work	Name	#of Imp	Work
1 Harris Rebar	2	Rebar @ Thickener Walls	7		
2 CEI	0		8		
3			9		
4			10		
6			11		
6			12		
Type 1 PC 50 Komatus Mini	Model	Status	Type 6 2000 Chevy 3/4 Ton	Model	Status
2 380 Komatus Loader			7 Kawasaki Mules		2 each
3 New Holland Skid stee	r		8 Miller Welder		2 00011
4 Cat Blade			Rs8 Gehl Grad-al		
5 Ford Water Truck			10		
Product Description	PO#	Shipper Delivered b	y Inspected by Dispositi	on l	Notes / Remerks / Storage Area
1					
2	_				
3	-				
4		-			- <u> </u>
9			Disposition	- A = Accept / N =	Nonconformist / R = Reject
	Vork Item		Progress		Station / % Corr
1 See Attached					
3					
4					
5					
6			•		
7					
8					
EVENTS:					
Can work on Uv Roof	due to high wi	nd warnings we have to be	careful with roof insulati	on and pane	2IS
On 17+h of Ton!!	sa mandh Cari	e lift rental from T&E			
On 1/Th of Jan Will of	ne month beni	E III I CENTAL TOM I OC			
					
This weather is real	ly slowing this	ngs down, wind, temps an	d snow		
a) important Calls b) important C	onversations c) Extr	a Work d) Safety Evaluation e) Delays	f) Changes in Work		

Wbc went to yard and got forms for brick ledge and forming walls for Thickener walls	in the second of
gos formo los briole leuge and forming walls for I nickener walls	
Columbia Basin Rebar onsite tving rebar for Thickenor wells, the well be an in the control of	
Columbia Basin Rebar onsite tying rebar for Thickener walls, they will have to cut down all the vertical bars they tied the	nem in to tall
Colstrip Electric will not be onsite until next week	
GreatWest onsite today office work	

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Prepared By	Clay Pipinich	DAILY FIELD R	EPORT	······		Page 1 of 2
Job No. / Name	1387/Laurel	WWTP			Date	1/13/2014
			•		Day	Monday
Weather Conditions	Bright Sun	Clear X Overcast.	Rain	Snow		ely high winds 45 to 60 mp
Temperature		32-49 X 50-69	70-84	Snow _ 85 - Up _	Extrem	BIY NIGH WINGS 45 TO GO MIP
Wind Conditions		Moderate X High	Humidity		X Moderate	Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/GreatWest (406	3) 581-7705			
VISITORS TO JOB:						
Name / Craft	Hours	Thiston on Farm Maile	Name	/ Craft	Hours	Work Item
Scott McDonald	9 9	Thickener Form Walls	9		+	
2 Ed Sable 3 Jake Prevel	9	Thickener Form Walls Thickener Form Walls	10			
4 Nick Bowen	9	Thickener Form Walls	11 12			<u> </u>
5 Colter Day	9	Thickener Form Walls	13		+	
A COILER Day		THICKERS FOR THE VALUE	13			
7			15			
8		· · · · · · · · · · · · · · · · · · ·	16			
Name	# of Imp	Work	Na	me	#of Imp	Work
1 Harris Rebar	1	Rebar @ Thickener Walls	7			
2 CEI	0		8			
3			9			
4			10			
5			11			
6			12			
Туре	Model	Status		ре	Model	Status
PC 50 Komatus Mini			6 2000 Chevy			
2 380 Komatus Loader			7 Kawasaki M			2 each
New Holland Skid stee			a Miller Welde			
Cat Blade Ford Water Truck			Rs8 Gehl G	rad-al	-	
6 FOR WAREI THUCK	1		10			
Product Description	PO#	Shipper Delivered to	y Inspected by	Disposition	N N	otes / Remarks / Storage Area
4		Grippor Destratou (y wapeciou by	L/ISPUSIO	<u> </u>	Otos / Namanaka / Otoraya Araa
' <u> </u>						
9	-					
4						
5		-				
				Disposition	- A - Accept / N = F	lonconformiet / R = Reject
	Vork Item		Progr	1988		Station / % Con
See Attached						
2						
3						
				*		
6						<u></u>
8						
EVENTS:						
	oof due to hip	h wind warnings we have to	be careful with	roof insu	ation and r	anes
Wind ousts up to 60	nph I hope th	e building is standing in the	mornino	.,,		
3as to ab to 00 t						
On 17th of Jan will a	ne month Geni	e lift rental from T&E				
This weather is real	ly slowing this	ngs down, wind, temps an	d snow			
a) Important Calls b) Important C	onversations c) Extr	a Work d) Safety Evaluation e) Deley	f) Changes in Work			

Wbc forming walls for Thickener, could not work on the roof because of the wind
Columbia Basin Rebar onsite tying rebar for Thickener walls, cut wall bars down left about 2:00pm
Colstrip Electric will not be onsite, I called CEI and asked about block outs they said they would send something over today
GreatWest onsite today office work, complaining about rebar, brick ledge etc

Prepared By	Cla	y Pipinich	ł	DA	ILY FIELD	REI	PORT					Page	1 of 2
Job No. / Name	138	7/Lourel	W	WTP							Date		1/14/2014
1000 110.1110.110		77 6201 61		** **		_					Day		
			_					_			Day		Tuesday
Weather Conditions		Bright Sun		Clear	X Overcast.		Rain		Snow	_			night about 2"
Temperature		to 31		32-49	50-69		70-84		85 - Up		Stopp	ad snowing	around 11:00ar
Wind Conditions	_	Still	-	Moderate			midity		Dry	X	Moderate.		Humid
OWNER / ENGINEER	AT S	ITE:	Ch	ris Reed/	GreatWest (4	06) 5	81-7705						
VISITORS TO JOB:													
Name / Craft		Hours					Nan	10 / C	raft	-11-11-11-11	Hours		Work Item
1 Scott McDonald		9	Th	ickener Fo	orm Walls								
² Ed Sable		0	De	ntist Appo	ointment	10							
3 Jake Prevel		9	Th	ickener F	orm Walls	11							
4 Nick Bowen		9	Τh	ickener F	orm Walls								
s Colter Day		9			om Walls	7 13							
8		-				7							
7			┢			15							
8			\vdash			٦ ا					 		
						, 10					L		
Name		# of Imp			Nork	-	A.	lame			#of Imp		Work
Harris Rebar		0	一		TVIR	+		161 ITG		-	i wou illub		TOIK
2 CEI		0	┢			1-7		_					
2 <u>CCI</u>			⊢			_ *	**************************************	•					
3		_	L			4.5				_			
4			L			10	1						
5			<u>L</u>			11							
6						12	<u>. </u>						
Туре		Model			Status	$\neg \Gamma$		Туре			Model		Status
1 PC 50 Komatus Mini							2000 Chev						
2 380 Komatus Loader							Kawasaki I					2 each	
3 New Holland Skid stee	r		T		· · · · · · · · · · · · · · · · · · ·		Miller Weld						
4 Cat Blade			<u> </u>			_	Rs8 Gehl (_	l-al				
5 Ford Water Truck			H			┦ ;;		<u> </u>	3-GI				
Product Description		PO#		Chiaman	2.1	15	1		Di.				
Product Descriptor		FU#		Shipper	Delivered	з ву	Inspected by		Disposi	don	N	iotes / Kemi	erks / Storage Area
¹			-					-		-			
2	_		-					_		-			
3	_		-					_					
4			-	*****						_			
5	_		-					_					
									Disposition	n = A	= Accept / N =	vonconformis	/ R = Reject
	Vork Ite	m ·					Pro	ğress	·				Station / % Cor
1 See Attached													
2					_								
3													
4													
5													
6													
7													
8													
EVENTS:													
Can not work on Uv Ro	of d	ue to hia) W	ind warni	nas we have t	o be	careful wit	h r	oof ins	υla	tion and t	anels	
Wind picked up aroun									,		· <u> </u>		
32 degrees with the v				<u>.,</u>	T''								
						-							
On 17th of Jan will or	e mo	nth Geni	e lif	ft rental	from TAF								
-11 57 111 01 0 WILL MILL OI			<u>~ (!!</u>	, , cital	,, 								
This weather is real	v =1-	wine this		dams m	ind temps s	nd e	RAM .				··· ·		
a) important Calle b) important Co	7 316	Hione of End	-W-	we disame	Evaluation of Dal	NTM 34	Thomas in Wed						
E al mahorimum come n'i mahorimani co	71 IVEN 68	1001 D V) EXT	# 44C	we night	PARTONNI R) DOM	uyo ∪ (THE PERSON AND AND ASSESSMENT						

Wbc forming walls for Thickener, could not work on the roof because of the wind and snowed last night about 2 to 3 inches we are trimming out opening for pine penetrations and block outs undivide a Thickener.
we are trimming out opening for pipe penetrations and block outs, working on Thickener concrete to windy for UV roofing
unloade alum handrail from MTS and called them to come and pick up trailer
Columbia Basin Rebar they are still not done they need to clean up and finish tying upper rebar on Thickener walls
Colstrip Electric will not be onsite, I called CEI and asked about block outs they said they would send something over today
Boride texted us a drawing
Once Million to the Control of the C
GreatWest onsite today office work, complaining about rebar, brick ledge was fine

			4:1:19				
Prepared By	Clay Pipinich	DA	ILY FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel	WWTP				Date	1/15/2014
				-		Day	Wednesday
Weather Conditions	Bright Sun	Clear	X Overcast.	Rain	Snow		High Gusty Winds
Temperature		X 32-49	50-69	70-84	85 - Up		
Wind Conditions	S##	Moderate	X High	Humidity	Dry	X Moderate	Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/C	GreatWest (40	6) 581-7705			
VISITORS TO JOB:		-					
-	-						
Name / Craft	Hours			Name	e / Craft	Hours	Work Item
Scott McDonald	9	Thickener Fo		9			
Ed Sable	9	Thickener Fo		10			
Jake Prevel	9	Thickener Fo		11			
Nick Bowen	9	Thickener Fo		12			
Colter Day	9	Thickener Fo	m Walls	13			
				15			·
			· · · · · · · · · · · · · · · · · · ·	16			
Name	# of Imp	· ·	Vork	3.1	ame	dof las	Work
Harris Rebar	0	<u> </u>	AOIK	7	ame .	#of Imp	YTOR
CEI				1 8			
	- ° -						
				10			
	_		-	11			
' 				12			
Туре	Model		tetus	1	Гуре	Model	Status
PC 50 Komatus Mini	- IVIZUUI			e 2000 Chev			
380 Komatus Loader				7 Kawasaki N			2 each
New Holland Skid stee	r			s Miller Weld			
Cat Blade				9 Rs8 Gehl G	Grad-al		
Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered	by inspected by	Disposit	ion N	lotes / Remarks / Storage Are
1							
2							
3		_	_				
4		_					
5	_					- A - A (V-1	Nonconformist / R = Reject
					Lisposiuoi	-A-ADOSpt711-1	CONCOMIQUINAL 7 IX - Project
	fork Hem			Pmr	ress		Station / % Co
See Attached	TOIR IBOTT				A1.0.00	-	- Caloni A C
2							
3			•				
4			-				
5							
6							
7							
8							
VENTS:							
Can not work on Uv Re	oof due to hig	h wind warnii	ngs we have t	o be careful wit	h roof ins	ulation and p	panels
Wind picked up aroun		rts up to 50 r	nph				
40 degrees with the							
On 17th of Jan will or	ne month Geni	e lift rental	from T&E				
This weather is real	ly slowing thi	ngs down, w	ind, temps a	nd snow			
a) Important Calls b) Important C	onversations c) Ext	ra Work d) Safety	Evaluation e) Dela	ys f) Changes in Work			

Wbc forming walls for Thickener, could not work on the roof because of the wind
we are trimming out opening for pipe penetrations and block outs, working on Thickener concrete to windy for LIV seeding
Tried to work on Uv roof way to windy
Columbia Basin Rebar they are still not done they need to clean up and finish tying upper rebar on Thickener walls
Colstrip Electric Not onsite today
Consult Electric Not offsite today
GreatWest onsite today office work, he went to Bridger Pre-Con today
STATE COLLY STILL COLLY STILL CO MOR, HE WELL TO BRIGGER PTG-COLL DOLLY

	Clay Pipinich	D/	VILY FIELD	REPORT			Page	1 of 2
Job No. / Name	1387/Laurel	WWTP				Date		1/16/201
				_		Day		Thursda
Weather Conditions	Bright Sun	X Clear	X Overcast.	Rain	Snow			
Temperature	to 31	32-49	X 50-69	70-84	85 - Up			
Wind Conditions		X Moderate.		Humidity	Dry	X Moderate.	. <u> </u>	łumid
OWNER / ENGINEER	AT SITE:	Chris Reed/	GreatWest (40	6) 581-77 05			,	
VISITORS TO JOB:								
	-							
Name / Craft	Hours			Nam	e / Craft	Have		Mad Ma
Scott McDonald	9	Thickener F	orm Walls	9	e / Cran	Hours		Work Item
Ed Sable	9	Thickener F		10				
Jake Prevel	9	Fusion Tran		11				
Nick Bowen	9	Thickener F		12				
Colter Day	9	Fusion Tran	ing	13				
				15				
				16				
Name	# of Imp		Wash					
Harris Rebar	# or imp		Work		ame	#of Imp		Work
CEI	- 0	 		8				
<u> </u>		<u> </u>						
				10				
				11				
		-		12				
Туре	Model		Status		уре	Model		Status
PC 50 Komatus Mini				5 2000 Chev				
380 Komatus Loader				7 Kawasaki N			2 each	
New Holland Skid stee	r			s Miller Weld	er			
Cat Blade				9 Rs8 Gehl C	Frad-al			
Ford Water Truck				10				
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	lon N	otes / Remar	ks / Storage A
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	don N	otes / Remar	ks / Storage A
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	don N	otes / Remar	ks / Storage A
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	don N	otes / Remar	ks / Storage A
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	don N	otes / Remar	ks / Storage A
Product Description	PO#	Shipper	Delivered	by Inspected by		i = A = Accept / N = 1		
Product Description	PO#	Shipper	Delivered	by Inspected by				
W	PO#	Shipper	Dollvered					ks / Storage Al
W		Shipper	Delivered		Disposition			/ R = Reject
W		Shipper	Delivered		Disposition			/ R = Roject
w		Shipper	Delivered		Disposition			/ R = Reject
w		Shipper	Delivered		Disposition			/ R = Reject
W		Shipper	Delivered		Disposition			/ R = Roject
W		Shipper	Delivered		Disposition			/ R = Reject
W		Shipper	Delivered		Disposition			/ R = Reject
See Attached w		Shipper	Delivered		Disposition			/ R = Reject
See Attached VENTS:	/ork Hem			Pros	Dispositor	= A = Accept / N = 1	Nonconformlet	/ R = Reject
See Attached VENTS:	/ork Hem			Pros	Dispositor	= A = Accept / N = 1	Nonconformlet	/ R = Reject
	/ork Hem			Pros	Dispositor	= A = Accept / N = 1	Nonconformlet	/ R = Roject
See Attached /ENTS: Can not work on Uv Ro	oof due to high	h wind warni	ngs we have to	Pros	Dispositor	= A = Accept / N = 1	Nonconformlet	/ R = Reject
See Attached /ENTS:	oof due to high	h wind warni	ngs we have to	Pros	Dispositor	= A = Accept / N = 1	Nonconformlet	/ R = Reject

Wbc forming walls for	r Thickener, could not work on the roof be ening for pipe penetrations and block outs	ecause of the wind		
we are trimming out ope	ening for pipe penetrations and block out:	s, working on Thickener concrete	to windy for UV roofing	
Columbia Basin Rebar.	they are still not done they need to clea	an up and finish tying upper reba	r on Thickener walls	
Colstrip Electric Not o	anita taday	:		
COISTIP Electric NOT O	onsite today			
				···
GreatWest onsite too	day office work			
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				······································
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Prepared By	Clay Pipinich	DAIL	Y FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel					Data	<u> </u>
Job No. / Name	130//Laurei	VV VV IP		_		Date	1/17/2014
						Day	Friday
Weather Conditions	Bright Sun		Overcast.	Rain	Snow		
Temperature		X 32-49	50-89	70-84	85 - Up		
Wind Conditions	Still	X Moderate	High	Humidity	Dry	X Moderate	Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/Gre	eatWest (40	6) 58 1-7705			
VISITORS TO JOB:							
Name / Craft 1 Scott McDonald	Hours	Thistones	- 14/II-		e / Craft	Hours	Work Item
	2	Thickener Form		9			· · · · · · · · · · · · · · · · · · ·
2 Ed Sable	2	Thickener Form	i walis	10			
3 Jake Prevel	0	No Work		│ ¹¹———			
4 Nick Bowen	0	No Work		12			
5 Colter Day		No Work		_ ¹³			
6			÷ -				
7		<u>[</u>		15			
8				16			
Name Hamis Dahar	# of Imp	Worl	<u>k</u>	 	lame	#of Imp	Work
1 Hamis Rebar	0	ļ		7			
2 CEI	0			8			
3				9			
4				10	.,-		
5				11			
6				12			
Тура	Model	Stat.	i\$		Гура	Model	Status
1 PC 50 Komatus Mini				6 2000 Chev	y 3/4 Ton		
2 380 Komatus Loader				7 Kawasaki I	Mules		2 each
3 New Holland Skid stee	r			8 Miller Weld	ler		
4 Cat Blade				9 Rs8 Gehl C	Grad-al		
5 Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered	by Inspected by	/ Dispos	ition N	otes / Remarks / Storage Area
1							
2	_				-		
3	_ ~	• • • • • • • • • • • • • • • • • • • •					
4					· . —	_	
5						<u> </u>	
					Disposition	on - A - Accept / N - N	lonconformat / R = Reject
	/ork Item			Pro	gress		Station / % Corr
1 See Attached							
2							
3							
4							
5							
6							
7							
8							
EVENTS:							
Can not work on Uv Re	oof due to hia	h wind warnings	s we have t	o be careful wit	th roof in	sulation and p	anels
			··				
On 17th of Jan will or	ne month Geni	e lift rental fro	om T&E				
This weather is real	ly slowina thi	nas down, wind	, temps a	nd snow			
a) important Calls b) important C	onversatione c) Ext	ra Work d) Safety Eva	luation e) Dela	ys f) Changes in Work	<u> </u>		

Wbc forming walls for Thickener building, could not work on the roof because of the wind	
Columbia Basin Rebar they are still not done they need to clean up and finish tying upper rebar on Thickener walls	
Colstrip Electric Not onsite today	
GreatWest onsite today office work	

						inger (1997) Projection	MAN COLUMN	Right of the State of
Prepared By	Clay Pipinich	DAILY	FIELD RE	PORT			Page	1 of 2
Job No. / Name	1387/Laurel	WWTP				Date	•	2/3/2014
	· · · · · ·					Day		Monday
Weather Conditions	Bright Sun		Overcast.	Rain	X Snow		Cold M	oming
Temperature			50-69	70-84	85 - Up			
	Still			midity	Dry ∑	Moderate.	<u>. L l l</u>	lumid
OWNER / ENGINEER VISITORS TO JOB:	AI SIIE:	Chris Reed/Great	tWest (406) 5	81-7705		· · · · · · · · · · · · · · · · · · ·		
VIOLITORIS TO GOD.								
Name / Craft	Hours	Dawata a Walla			e / Craft	Hours		Work Item
Scott McDonald Ed Sable	0	Dewater Wells No Work						
Jake Prevel	3	Dewater Wells		}				
Nick Bowen	2	Dewater Wells	1:			1		
Colter Day	2	Dewater Wells	1					
B		`						
7			1:	5				
•			91	3		<u></u>	<u></u>	
Marca	4-51	141.2			lows	#-41		افامیا.
Name 1 Harris Rebar	# of Imp	Work	·	, <u> </u>	lame	#of Imp		Work
CEI	- 2	Uv Electrical		<u>'</u>		 		
3		01 2.000.00.		i				
4			1					
5			1	1				
6			1	?				
Туре	Model	Status			Гуре	Model		Statue
PC 50 Komatus Mini				2000 Chev			2 each	
2 380 Komatus Loader 3 New Holland Skid stee	<u> </u>			Kawasaki Miller Weld		+	2 each	
4 Cat Blade	<u>'</u>			Rs8 Gehl (+	<u> </u>	
5 Ford Water Truck					J. G. G.	 		
Product Description	PO#	Shipper	Delivered by	inspected by	y Disposition	1 !	lotes / Rema	rks / Storage And
1								
2								
3								
4								
5					Disposition =	A = Accept / N =	Nonconformist	/ R = Reject
	Vork Item			Pro	gress			Station / % C
1 See Attached	11111	-						***
2					 			
4		·					 	
5								
6								
7								
8								****
EVENTS:						155		
			·					
	<u> </u>		1. HP "					
								
This weather is real	ly slowing thi	ngs down, wind,	temps and :	now				
a) Important Calls b) Important C	onversations c) Ext	ra Work d) Safety Evalue	ation e) Delays f	Changes in Worl	k			

Wbc Exc for dewatering well had to send everybody home no body would deliver gravel and is to cold will shut down for No heat in our office trailer, CEI will have to replace a couple breakers	a week
No heat in our office trailer, CEI will have to replace a couple breakers	
Columbia Basin Rebar Not on site	
Colstrip Electric onsite working on Uv electrical for equipment etc	
	<u> </u>
GreatWest Working in there down town office, no heat in office and weather shut down	-
g and the most in the state of	
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				3101411511101			
Prepared By	Clay Pipinich	DAIL	Y FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel					Date	2/4/2014
				_		Date	Tuesday
100 mm						Day	
Weather Conditions Temperature	Bright Sun		Overcast.	Rain	X Snow		Cold Morning
Wind Conditions	X to 31	32-49 X Moderate	50-69	70-84	85 - Up		22 below with wind
			High	Humidity	Dry	X Moderate	Humid
OWNER / ENGINEER / VISITORS TO JOB:	AI SIIE:	Chris Reed/Gre	eatWest (40	06) 581-7705		<u> </u>	
VISITORS TO JOB:							
-					A		
Name / Craft	Hours			N-			
1 Scott McDonald	0	Weather / No V	Vork	9 Nam	ne/Craft	Hours	Work Item
2 Ed Sable	4	Frp Pipe / Shop					
3 Jake Prevel	1 0	Weather / No V		10			· · · · · · · · · · · · · · · · · · ·
4 Nick Bowen	0	Weather / No V		- 11 			
5 Colter Day	1 0			12			
s Coller Day		Weather / No V	YORK	13			
<u> </u>				┤			
7				15			
8				16			
A1_							
Name 1 Harris Rebar	# of Imp	Worl			Vame	#of Imp	Work
2 CEI	0 2	l be Classes !	<u> </u>	7			
² CEI		Uv Electrical		8			
3				9			
4				10			
5				11			
6				12			
Туре	Model	Statu	8		Туре	Model	Status
1 PC 50 Komatus Mini				s 2000 Chev	ry 3/4 Ton		
2 380 Komatus Loader				7 Kawasaki			2 each
3 New Holland Skid stee	<u>r </u>			a Miller Weld	der		
4 Cat Blade				9 Rs8 Gehl (Grad-al		
5 Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered	by inspected by	y Disposit	ion N	otes / Remarks / Storage Area
1	_						
2							
3							
4							
5							
					Disposition	= A = Accept / N = N	lonconformist / R = Reject
	ork Item			Pro	GL688		Station / % Con
1 See Attached	·						
2							
3							
4							
5							
6				 			
7							
8							
EVENTS:							
This weather is real	y slowing thi	<u>ıgs down, wind</u>	, temps a	nd show			
a) Important Calls b) Important Co	nversations c) Extr	a Work d) Safety Eva	luation e) Dela	ys f) Changes in Worl	K		

Wbc Wea	ther Day cold and blo	wing snow below z	zero, no gravel de				
					· · · · · · · · · · · · · · · · · · ·		
Calumbia Da	ala Bahas Matan	-16.0					
Columbia Da	sin Rebar Not on s	SILE			· · · · · · · · · · · · · · · · · · ·		
Colstrip Elec	tric onsite working	on Uv electrical for	r equipment etc	•			
GreatWest	. Working in there de	our tour office pe	host in office or	ما دوم ماهم ماه م			
GIGALTY GSL	. WORNING IN CHEE CO	OWII town onice, no	nearm onice an	id weather shut do	WII		
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		则只是随风间 线图:			
Prepared By	Clay Pipinich	DAILY FIELD	REPORT		Page 1 of 2
Job No. / Name	1387/Laurel			Date	2/5/2014
005 140. 7 14a1110	10077 Eddi El	-	_	Day	Wedensday
	_			Day	vvederisday
Weather Conditions	Bright Sun	Clear X Overcast.	Rain X Snow		Cold Morning
Temperature Wind Conditions	X to 31	32-49 50-69	70-84 85 - Up		30 below with wind
		X Moderate High		X Moderate	Humid
OWNER / ENGINEER / VISITORS TO JOB:	AI SITE:	Chris Reed/GreatWest (40	06) 581-7705	·	
VISITORS TO JOB:			· · · · · · · · · · · · · · · · · · ·		
Name / Craft	Hours		Name / Craft	Hours	Work Item
1 Scott McDonald	0	Weather / No Work	9	110046	7707 (651)
2 Ed Sable	4	Frp Pipe / Shop	10		
3 Jake Prevel	0.	Weather / No Work	11		
4 Nick Bowen	0	Weather / No Work	12		
5 Colter Day	0	Weather / No Work	13		
8					
7			15		
8			16		
Name	# of Imp	Work	Name	#of Imp	Work
1 Harris Rebar	0		7		
2 CEI	2	Uv Electrical	8		
3			9		
4			10		
5			11		
6			12		
Туре	Model	Status	Туре	Model	Status
1 PC 50 Komatus Mini			6 2000 Chevy 3/4 Ton		
2 380 Komatus Loader			7 Kawasaki Mules		2 each
3 New Holland Skid stee	<u> </u>		8 Miller Welder		
4 Cat Blade			Rs8 Gehl Grad-al		
6 Ford Water Truck			10		
Product Description	PO#	Shipper Delivered	by Inspected by Dispositi	on N	otes / Remarks / Storage Area
1					
2	_	. 			
3	_				
4	_				
5	_	· ———	Disposition	- A = Accept / N = I	Vonconformist / R = Reject
W	ork Item		Progress		Station / % Com
See Attached					
2					
3					
4					
5					
6					
7					
8					
EVENTS:					
					
			nd anaw		
This weather is real	y slowing thi	ngs down, wind, temps a	ng Snow		
a) important Calls b) important Co	onversations c) Ext	a Work d) Safety Evaluation e) Dela	rys 1) Unanges in Work	***	<u> </u>

Wbc Weather Day cold and blowing snow below zero, no gravel delivery	
Columbia Basin Rebar Not on site	
Colstrip Electric onsite working on Uv electrical for equipment etc	
GreatWest Working in there down town office, no heat in office and weather shut down	
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Prepared By	Clay Pipinicl				
Job No. / Name	1387/Laure		NEP OK I		Page 1 of 2
	100// [20]	I AA AA I P	_	Date	2/6/2014
				Day	Thursday
Weather Conditions	Bright Sun		Rain X Sn	DW	Cold Morning
Temperature Wind Conditions		32-49 50-69	70-84	- Up	36 below
		X Moderate High	Humidity Dry		Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/GreatWest (40	6) 581-7705		
VISITORS TO JOB:					
Name / Craft					
1 Scott McDonald	Hours	114	Name / Craft	Hours	Work Item
2 Ed Sable	0	Weather / No Work	9		
3 Jake Prevel	. 8	Frp Pipe / Shop	10		
4 Nick Bowen	_ 0_	Weather / No Work	11		
	0	Weather / No Work	12		
5 Colter Day	0	Weather / No Work	13		
7			15		
8			16		
Name	# of imp	Work	Name	#of imp	Work
1 Harris Rebar	0		7		
2 CEI	2	Uv Electrical	8		
3			9		
4			10		
5			11		
6			12		
Туре	Model	Status	Тура	Model	Status
PC 50 Komatus Mini			s 2000 Chevy 3/4 To		- Julius
2 380 Komatus Loader			7 Kawasaki Mules	<u></u>	2 each
3 New Holland Skid steer			a Miller Welder		
4 Cat Blade			Rs8 Gehl Grad-al		
5 Ford Water Truck			10		
		7.5			
Product Description	PO#	Shipper Delivered t	y Inspected by Dis	position N	otes / Remarks / Storage Area
1			2 ************************************	postori it	Ores / Northanks / Okrage Area
2					· · · · · · · · · · · · · · · · · · ·
3				_	
4					
5					
			Disor	nation = A = Accept / N = 1	Nonconformist / R = Reject
Wo	rk item		Progress		Station / % Corr
1 See Attached				-	
2					
3					
4					
5				****	
6					
7					
8					
EVENTS:					
					<u> </u>
-		•			
	• •				
This weather is really	slowing thin	gs down, wind, temps and	snow		
a) Important Calls b) Important Con	versations c) Extra	Work d) Safety Evaluation e) Delays	f) Changes in Work		

	distribution of the second of	en en la companya de br>La companya de la co
Wbc Weatt	ather Day cold and blowing snow below zero, no gravel delivery wer rock wwtp fix pvc leak and installed actuator on valve Owen t	MAZING on Physics helped short 4 hours
went to Rive	ver rock wwtp fix pvc leak and installed actuator on valve Owen t	w williams Minimolud helbed about 1 hour
Columbia Rec	asin Rebar Not on site	
COMMINS DO		
Colstrip Elect	ctric onsite working on Uv electrical for equipment etc	
Geoditiont	Working in there down town office, no heat in office and weal	her shut down
Gleativest	Working in there down town onice, no near in onice and week	TO SHOT GOTT
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		WHEN LETTERS HE			And the second
Prepared By	Clay Pipinicl	DAILY FIEL	D REPORT	and a second	Dono 4 - 60
Job No. / Name	1387/Laure	·	(12. 01()		Page 1 of 2
		· · · · · · · · · · · · · · · · · · ·	<u></u>	Date	2/7/2014
Weather Conditions				Day	Friday
Temperature	Bright Sun X to 31				Cold Morning
Wind Conditions	Still	32-49 50-69 X Moderate High	——————————————————————————————————————		25 below
OWNER / ENGINEER			Humidity Dry	X Moderate.	Humid
VISITORS TO JOB:	AI SIIE:	Chris Reed/GreatWes	(406) 581-7705		
				·····	

Name / Craft	Hours		Name / Craft		
1 Scott McDonald	0	Weather / No Work	9	Hours	Work Item
² Ed Sable	0	Weather / No Work	10		
3 Jake Prevel	0	Weather / No Work	11		
4 Nick Bowen	0	Weather / No Work	12		
5 Colter Day	0	Weather / No Work	13		
6					
7			15		
8			16		
Name	# of Imp	Work	Name	#of Imp	Work
1 Harris Rebar	0		7		
² CEI	2	Uv Electrical	8		
3			9		
4			10		
5			11		
6			12		
Type 1 PC 50 Komatus Mini	Model	Status	Туре	Model	Status
2 380 Komatus Loader			e 2000 Chevy 3/4 Ton		
3 New Holland Skid steer			7 Kawasaki Mules		2 each
4 Cat Blade			Miller Welder		
5 Ford Water Truck		***	e Rs8 Gehl Grad-al	_	
· · · · · · · · · · · · · · · · · · ·			10		
Product Description	PO#	Shipper Deliv	ered by Inspected by Disposi	loo N	otas / Remarks / Storage Area
1			order by Brahous		Use / Naments / Stutege Ares
2	-				
3					
4	-			*	
5	-				
			Dispositio	i = A = Accept/N = N	Voncoriformist / R = Reject
	ork item		Progress		Station / % Con
1 See Attached					
·					
4	 	· · · · · · · · · · · · · · · · · · ·			
5					
7					
8					
EVENTS:					

Shut down the Job to	cold from 2-3	3 thru 2-7			
This weather is really	y slowing thir	ngs down, wind, temps	and snow		
a) Important Calls b) Important Cor	nversations c) Extr	a Work d) Safety Evaluation e) [Delays f) Changes in Work		

Wbc Weather Day cold and	blowing snow below zero, no gravel delive	ry	
Columbia Basin Rebar Not	on site		
Colstrip Electric onsite work	king on Uv electrical for equipment etc		
THE PROPERTY OF STREET			
OA 1 12 41 4 4 4	down town affine and to affine and to	nother shut down	
GreatWest Working in their	re down town office, no heat in office and w	eather shut down	
			<u></u>
	We .		

Late the factor						A STATE OF THE STA		
Prepared By	Clay Pipinici	n DAI	Y FIELD	REPORT	and the second second	<u>a na ang ta</u> tatr	Dono	-10
Jeb No. / Name	1387/Laure							of 2
				_		Date		/2014
Weather Conditions						Day	Mor	nday
Temperature	Bright Sun X to 31	Clear 32-49	X Overcast.	Rain	Snow		Cold	
Wind Conditions	Still	X Moderate	50-69 High	70-84 Humidity	85 - Up		12 below with the v	vind
OWNER / ENGINEER		Chris Reed/Gr			Ory	X Moderate	Humid	
VISITORS TO JOB:	0.112 .	Offina Paparol	Galvy GSL (4)	<i>J</i> 0) 30 1-7705				
Name / Craft	Hours			Nem	e / Craft	Hours	Work	t Item
1 Scott McDonald	9	Dewater Wells		9		110010	77018	, receir
² Ed Sable	9	Uv Metal Build		10			-	
3 Jake Prevel	9	Dewater Wells		11				
4 Nick Bowen	9	Uv Metal Build	ing Trim	12				
5 Colter Day	9	Dewater Wells	Bio	13				
6								
7				15				
8				16				
Name 1 Harris Rebar	# of Imp	Wo	rk	N	3me	#of Imp	Wo	иk
2 CEI	0	14-1	1164	7				
	1	Unloaded Man	lift	8	-			
3				9				
4				10				
5				11				
6			·	12				
Type 1 PC 50 Komatus Mini	Model	State	<i>J</i> S		уре	Model	Star	lue
2 380 Komatus Loader	-			6 2000 Chevy				
3 New Holland Skid steer				7 Kawasaki M			2 each	
4 Cat Blade				a Miller Weide				
5 Ford Water Truck				Rs8 Gehl G	rad-al			
o i ord trater i reck				10				
Product Description	PO#	Shipper	Delivered	by Inspected by	Dispositi		lotes / Remarks / Ston	
1 2" Minus		Fisher	Fisher		Dispusion			
2	· · · · · · · · · · · · · · · · · · ·	1 131101	LISHE		 		ng wells - Truck 74.08 tons)	and p
3	•					3 loads (/4.06 tons)	
4	•	·						
5	· · · · · · · · · · · · · · · · · · ·		-					
	•				Disposition	= A = Accept / N =	Vancanformist / R = Rej	ect
	ork flem			Prog	1985		Station	n / % Соп
1 See Attached								
2	-11."							
3			-					
						· · · · · · · · · · · · · · · · · · ·		
5							 	
•								
8	•					***		
EVENTS:								
A lot of snow onsite fr	om the week	chout 8" on +L	علمنا اعبروا و	t come morning				
in al minu aliane II.	IIIC WCCA		e level, ligh	1 STOW HIGH THING	,			
		<u>.</u>					.	
This weather is really	slowing thin	gs down, wind	, temps an	d snow				
a) Important Calls b) Important Con								

						11 11 11 11 11	Alle and amp could be a
Vbc A lot o	of snow onsit	e, with the wind	blowing was 12 be	low snowed this r	noming, working on	digging wells in north	of DIO got one well in to
vorking on O	il Separator	oiping in pit, Gre	atvvest don't cuit e	xisung weir south	6114 O1 O4		1
Columbia Bas	sin Rebar	Dan on site he j	ust checked in, we	have nothing goir	g on that requires r	ebar	
Colstrin Flect	ric onsite	unloaded manlif	t in Uv Building the	n left, they said th	ey are waiting for so	cord for temp power t	o Uv
Coldulp Licol	J.O. C. OHORE						
		41			·		
GreatWest	Onsite toda	y working in off	ce				
							·-··
							
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					to a distribution to the	desaulusisch Habben	tera en estador en empresa y area magnes.
Prepared By	Clay Pipinich	DAII	Y FIELD		i esta di meni		
Job No. / Name	1387/Laurel			NEPOK!			Page 1 of 2
TOD TTO: / ITAINIE	13077 Edgrei	WWIF				Date	2/11/2014
181-41					·	Day	Tuesday
Weather Conditions Temperature	Bright Sun		Overcast.	Rain	Snow		Cold
Wind Conditions	X to 31	32-49	50-69	70-84	85 - Up	8 d	egrees above with the wind
OWNER / ENGINEER		Moderate		Humidity	Dry [2	K Moderate	Humid
VISITORS TO JOB:	AI SHE:	Chris Reed/Gr	eatWest (40	6) 581-7705			
VISITORS TO JOB:							
						-0.1	
Name / Craft	Hours						
1 Scott McDonald	9	Dewater Wells	Ric		e / Craft	Hours	Work Nem
₂ Ed Sable	9	Uv Metal Buildi				+	
3 Jake Prevel	9	Dewater Wells		10			
4 Nick Bowen	9	Uv Metal Buildi		12			
5 Colter Day	9	Dewater Wells		13			
8				"		† 	
7				15			
8				16			
Name	# of Imp	Worl	X	N	erne	#of Imp	Work
1 Harris Rebar	0			7		, , , , , , , , , , , , , , , , , , ,	1
2 CEI	0			8			
3				9			
4				10		 	
5				11			
6				12	· · · · · · · · · · · · · · · · · · ·		
Туре	Model	Statu	3	T	уре	Model	Startus
PC 50 Komatus Mini				6 2000 Chevy			
2 380 Komatus Loader				7 Kawasaki M		1	2 each
3 New Holland Skid steel				a Miller Weld	er		
4 Cat Blade				Rs8 Gehl G	irad-al		
5 Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered b	y Inspected by	Disposition	1	lotes / Remarks / Storage Area
1 2" Minus		Fisher	Fisher			Dewater	ing wells - Truck and p
2						4 loads (111.46 tons)
3							
4							
5						_	
					Disposition = /	A = Accept / N =	Nonconformist / R = Reject
	ork Hem						
1 See Attached	OIK HERT			Prog	988		Station / % Con
2			<u> </u>				
3							
4							
5						*******	
6					,		
7	····						
8			***************************************				
EVENTS:					***		
Wind blowing hard							
	•						···
Started snowing real	nard around 2	00pm today					
					· · · · · · · · · · · · · · · · · · ·		
This weather is really	y slowing thin	gs down, wind	, temps and	snow			
a) Important Calls b) Important Co	nversations c) Extra	Work d) Safety Eval	uation e) Delays	f) Changes in Work			

Wbc working on diaging	in wells north of bio placing pvc well casings and filling area with 2" minus Jing and installing doors and frames ucked it dry to were the 2" pumps just slurps for water in about 2 hours
cleaning channels Uv Buik	ting and installing doors and frames
pumped out the first well s	ucked it dry to were the 2" pumps just slurps for water in about 2 hours
Columbia Basin Rebar N	lot onsite
Colstrip Electric Not ons	ite today, Wbc unloaded wire for temp power to Uv Building
GreatWest Onsite toda	y working in office, shooting grades to see if we have to cut welr at south end of UV
CHOCKET COL CHICHE IUGE	
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Prepared By Cla	ay Pipinich	DAIL	FIELD	REPORT	1. 4. 3. V. 2. V.	<u>. Brita Tuğayayının </u>	Page 1 of 2
Job No. / Name 13	87/Laure					Date	2/13/2014
				-		Day	Thursday
Weather Conditions	Bright Sun	Clear X	Overcast.	Rain	Snow		Cold
Temperature X Wind Conditions	to 31	32-49	50-69	70-84	85 - Up	10 d	egrees above with the wind
OWNER / ENGINEER AT	SWI	Moderate X		Humidity	Dry [X Moderate.	. Humid
VISITORS TO JOB:	SIIE.	Chris Reed/Gre	atwest (40	6) 581-7705			
					·		
Name / Craft 1 Scott McDonald	Hours 9	Dewater Wells I	510		e / Craft	Hours	Work Item
₂ Ed Sable	9	Uv Metal Buildin		0		_	· · · · · · · · · · · · · · · · · · ·
3 Jake Prevel	9	Dewater Wells E		10			
4 Nick Bowen	9	Uv Metal Buildin	g Doors	12			
s Colter Day	9	Dewater Wells E	310	13			
6				│			
8				15 16			
				10			
Name	# of imp	Work		N	ame	#of Imp	Work
1 Harris Rebar	0			7			
2 CEI	2	Uv for about 2 h	ours / left	8			
3				9			
5			-	10			
8				12			
Туре	Model	Status			уре	Model	Status
PC 50 Komatus Mini 380 Komatus Loader				6 2000 Chev			
3 New Holland Skid steer				7 Kawasaki N 8 Miller Weld		-	2 each
4 Cat Blade				Rs8 Gehl G			
5 Ford Water Truck			7	10	rida di		
		5 1	,				
Product Description	PO#	Shipper	Delivered		Dispositio		lotes / Remarks / Storage Area
1 2" Minus		<u>Fisher</u>	Fisher	·			ing wells - Truck and p
2						3 loads (58.75 tons)
4		,				•	
5		• ——					
					Disposition	A = Accept / N = 1	Nonconformist / R = Reject
Work its	N10			Prog	2000		Station / % Com
1 See Attached				Prog	r = 100		Station / 76 Com
2							
3							
4	-				····	······································	
6		····					
7					·		
8							
EVENTS:							
Wind blaudna hand aust-	An An -						
Wind blowing hard, gusts	<u>чр то 40 г</u>	прп		··			

			_				
This weather is really sk	owing this	ngs down, wind,	temps an	d snow	****		
a) Important Calls b) Important Conversi	anions c) Extr	a work d) Safety Evalu	ation e)Delay	s f) Changes in Work			

Wbc working on digging in wells north of bio placing pvc well casings and filling area with 2" minus still trimming out doors at Uv Building, cut weir south end of the channel 2 tenths per GreatWest, took doors off went to the shop and	
still trimming out doors at Uv Building, cut weir south end of the channel 2 tenths per Greatwest, took doors on went to the shop and fixed holes, Kalmount will ship new closers today	
Columbia Basin Rebar Not onsite	
Colstrip Electric Cliff has been onsite all week misc items for COL, Onsite working at Uv Building electrical, went over misc items ne	eded in I
Colour De L'Isourie Omit neu soon orione air wood times active a colour de la co	
Constitute Consite today working in office	
GreatWest Onsite today working in office	
	

en e	at anny filia Partol			den a denomerate	808 - 100 -
	ay Pipinich			· · · · · · · · · · · · · · · · · · ·	Page 1 of 2
Job No. / Name 13	87/Laurel			Date	2/17/2014
				Day	Monday
Weather Conditions	Bright Sun	Clear X Overcas	t. Rain Snow		
Temperature X Wind Conditions	to 31	32-49 50-69	70-84 85 - Up		
OWNER / ENGINEER AT	Still	Moderate X High		X Moderate.	Humid
VISITORS TO JOB:	HIE;	Chris Reed/GreatWest	(406) 581-7705		
Name / Craft 1 Scott McDonald	Hours 9	Thickener Backfill	Name / Craft	Hours	Work Hem
2 Ed Sable	9	Uv Metal Building Doon	9 \$ 10		
3 Jake Prevel	9	Thickener Backfill	11	-	
4 Nick Bowen	9	Thickener Backfill	12		
5 Colter Day	9	Thickener Backfill	13		
6					
8	1		15	 	
			. IV		
Name	# of imp	Work	Name	#of imp	Work
1 Harris Rebar	0		7		
² CEI	1	Uv Temp Power	8		
3			•		
5	<u> </u>		10		
6			12		
Туре	Model	Status	Туре	Model	Status
PC 50 Komatus Mini 380 Komatus Loader	ļ		e 2000 Chevy 3/4 Ton	_	0 t
3 New Holland Skid steer	-		7 Kawasaki Mulès 8 Miller Welder	+	2 each
4 Cat Blade			Rs8 Gehl Grad-al		
5 Ford Water Truck			10		
Product Description	PO#		ered by Inspected by Disposition		Votes / Remarks / Storage Area
1 3" Minus Pit Run		Fisher Fis	her		er Backfill - Truck and r (454.59 tons)
3				10 10803	(404.05 (015)
4		<u> </u>			
5					
			Disposition	- A = Accept / N =	Nonconformiet / R = Reject
Work III	em		Progress		Station / % Corr
1 See Attached					
2					
3					
5	····				
6		·····			
7					
8					
EVENTS:					
Wind blowing hard, gusts	up to 40	mph			
And Diaming India, 94313	<u>-p 10 70 l</u>	7			
			-		
This Ah ! 11 -1	amir - AL	ne dans mind Assess	and anough		
This weather is really sl a) Important Calle b) Important Converse	owing This	ngs gown, wing, temps m Work of Safety Evaluation All	CURCI SROW		
Component Cem Up Hisportent Convers		U TOUR U/ VORON E TEMPORAL B/ L	ments it similars at 11619		

Wbc started backfilling with 3" minus import the onsite material we have is way to wet, finished up door hardware and Uv metal building trim
using 300exc, 380loader and walk behind plate wackers
Columbia Basin Rebar Not onsite
Colstrip Electric Onsite working on temporary nower to Uv Ruilding, one man, not performing like I would like I hate when they wait until
Colstrip Electric Onsite working on temporary power to Uv Building, one man, not performing like I would like I hate when they wait until the last minute, no outlets for sampler or light, Boride said he wont be onsite until 12:00 noon
GreatWest Onsite today working in office, doing compaction tests every thing passing
· · · · · · · · · · · · · · · · · · ·

		国际代表的 医神经性				
Prepared By	Clay Pipinicl	DAILY FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laure	I WWTP			Date	2/24/2014
			_		Day	Monday
Weather Conditions	. Bright Sun	Clear X Overcast.				
Temperature	X to 31	32-49 50-69	Rain	Snow 85 - Up		Cold today
Wind Conditions	Still	Moderate X High	Humidity	Dry° [x	Moderate.	. Humid
OWNER / ENGINEER	AT SITE:	Chris Reed/Greatest (406)				· L
VISITORS TO JOB:						
Name / Craft 1 Scott McDonald	Hours O	Moother / No Mod		/ Creft	Hours	Work Item
2 Ed Sable	1 6	Weather / No Work Weather / No Work			ļ <u>.</u>	
3 Jake Prevel	2	Thickener Piping Outside	10		ļ	
4 Nick Bowen	- 6	Weather / No Work	11		<u> </u>	
5 Colter Day	2	Thickener Piping Outside	13			
6		July 2 Long 2 Long 3	T "	***************************************		
7			15			
8			16			
Name	# of Imp	Work	Na	me	#of Imp	Work
1 Harris Rebar	0		7			
2 CEI	0	No Show	8 .			
3			9			
4			10		ļ	
5			11			
6			12			
1 PC 50 Kornatus Mini	Model	Status		pe O/4 Ton	Model	Status
2 380 Komatus Loader			6 2000 Chevy 7 Kawasaki M		-	2 each
3 New Holland Skid steel	- 1		8 Miller Welde			z each
4 Cat Blade			Rs8 Gehl G			
5 Ford Water Truck			10			
Product Description	PO#	Shipper Delivered	by Inspected by	Disposition	N	lotes / Remarks / Storage Area
1						
2	_					
3						
4						
5	_			T	- Access / N -	Nonconformist / R = Reject
				Uniposition - F	- 2000pt / 14 - 1	Portcomormist / R = Papect
W	ork Item		Progr	MAS		Station / % Co
See Attached						
2						
3						
4						
5						····
6				 		
7						
8 EVENTS:						
- 1 - 11 1 4.						
A lot of snow 8 to 12 i	nches over +l	ne weekend				
IV 4 OILVE O IV 16 I		- HERIVIE				
This weather is realf	y slowing this	ngs down, wind, temps an	d snow			
a) Important Calls b) Important Co	nversations c) Extr	a Work d) Safety Evaluation e) Delay	s f) Changes in Work			

Nbc Unloaded Clarifier grating, snow removal		
TEO Officeace Cicinion graning, office forficeac		
Columbia Basin Rebar Not onsite		
•		
Colstrip Electric No show		
GreatWest Onsite today working in office		
OV. A. U		
Start-Up;		
	 	
		:

Prepared By					
3	Clay Pipinich		D REPORT		Page 1 of 2
Job No. / Name	1387/Laure	WWTP		Date	2/25/201
				Day	Tuesda
Weather Conditions	Bright Sun	Clear X Overcas	Rain Sno	w	Cold today
Temperature		32-49 50-69	70-84 85 -	Up	10 degrees for a high
Wind Conditions		Moderate X High	Humidity Dry.	X Moderate	. Humid
OWNER / ENGINEER / VISITORS TO JOB:	AT SITE:	Chris Reed/Greatest (4	06) 581-7705		
VISITORS TO JOB:		:			<u> </u>
Name / Craft	Hours		Name / Craft	Hours	Work item
Scott McDonald	10	6" Was To Blower Bld	9		
Ed Sable	0	Weather / No Work	10		
Jake Prevel	10	6" Was To Blower Bld	11		
Nick Bowen	10	6" Was To Blower Bid	12		
Colter Day	10	6" Was To Blower Bld	13		
7			15		
)			16		
Name	# of Imp	Work	N	4-11-	***
Harris Rebar	0	TTUK	Name 7	#of imp	Work
CEI	Ö	No Show	8		
			•	·	<u> </u>
			10		
5			11		t
			12		
Туре	Model	Status	Туре	Model	Status
PC 50 Komatus Mini			6 2000 Chevy 3/4 To	on	
380 Komatus Loader			7 Kawasaki Mules		2 each
New Holland Skid steer			8 Miller Welder		
Cat Blade	1		Rs8 Gehl Grad-al		
F					
Ford Water Truck			10		
	2004	Chinasa Daha			
Ford Water Truck Product Description	PO#	Shipper Delive		position f	lotes / Remarks / Storage Ar
Product Description	PÓ#	Shipper Delive		position f	lotes / Remerks / Storage Ar
Product Description	PO#	Shipper Delive		poelition !	lotes / Remarks / Storage A
Product Description	PO#	Shipper Delive		ocelition	lotes / Remarks / Storage A
	PO#	Shipper Delive		oceltion	lotes / Remarks / Storage Ar
Product Description	PO#	Shipper Delive	red by Inspected by Dieg		Nonconformlet / R = Reject
Product Description		Shipper Delive	red by Inspected by Dieg		
Product Description	PO#	Shipper Delive	red by Inspected by Dieg		
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Neject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description		Shipper Delive	red by Inspected by Disp		Nonconformist / R = Reject
Product Description We See Attached		Shipper Delive	Dispo		Nonconformist / R = Reject
Product Description		Shipper Delive	Dispo		Nonconformist / R = Reject
Product Description We See Attached		Shipper Delive	Dispo		Nonconformist / R = Reject
Product Description We See Attached		Shipper Delive	Dispo		Nonconformist / R = Neject
Product Description We See Attached		Shipper Delive	Dispo		Nonconformist / R = Reject
Product Description We See Attached		Shipper Delive	Dispo		Nonconformist / R = Reject

AB 14 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	
Wbc Unloaded Clarifler bolts freight, snow removal, working on 6" Was from Thickener to Blower Building laying pipe having problems getting native materials to pass compaction, cored hole into Blower Bid walls, building clean outs in Blower Bid	
yewing native materials to pass compartion, cored note into biomer bit maile, building dealt outs in biomer bit	
Columbia Basin Rebar Not onsite	
Colstrip Electric Wade onsite we went over misc items and he said he would get with Barry also	-
GreatWest Onsite today working in office	
VIVALITY VIII. VIII. WORLD INVITATION OF THE PROPERTY OF THE P	
One-t Line	
Start-Up;	
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Branchad By		the state of the s				
Prepared By	Clay Pipinich		LD REPORT		P	age 1 of 2
Job No. / Name	1387/Laurel	WWTP			Date	2/26/2014
					Day	Wednesday
Weather Conditions	Bright Sun	Clear X Overca	st. Rain	Snow		Cold today
Temperature		32-49 50-69.	70-84	85 - Up	20 degre	es below with the wind
Wind Conditions	Still	Moderate X High		Dry X	Moderate	Humid
OWNER / ENGINEER /	AT SITE:	Chris Reed/Greatest (406) 581-7705		•	
VISITORS TO JOB:						
					-	
Name / Craft	Hours					
Scott McDonald	9	6" Was To Blower Bld	Name / Cra	ent .	Hours	Work Item
Ed Sable	Ö	Weather / No Work	10			
Jake Prevel	9	6" Was To Blower Bld				
Nick Bowen	9	6" Was To Blower Bld				
Colter Day	9	6" Was To Blower Bld				
		U TTED TO DIOTION DIO			<u> </u>	
7			15			
			16	- +		
		* * * * * * * * * * * * * * * * * * * *	10			
Name	# of Imp	Work	Name		#of Imp	Work
Harris Rebar	0		7			77 WID
CEI	0	No Show	8			
			•			
´—————			10			
			11 12			
			12			
Тура	Model	844.4	3		44-4-1	81-1
PC 50 Komatus Mini	Wodel	Status	6 2000 Chevy 3/4	Ton	Model	Status
380 Komatus Loader			7 Kawasaki Mule			each
New Holland Skid steer	· ·		Miller Welder	3		PACI I
Cat Blade			9 Rs8 Gehl Grad-	<u>al</u>		
Ford Water Truck			10 10 OGIN GIAU	-		·
Product Description	PO#	Shipper Del	vered by inspected by	Disposition	Notes	/ Remarks / Storage Area
1			inspected by	Оперовного.	110105	/ (CARABIA) CONTEGO / COL
2					<u> </u>	•
<u> </u>	-				······································	
						
	_	· —— —				
				Disposition = A =	Accept / N = Nonco	onformist / R = Reject
W	ork Hern		Progrees			Station / % Cor
See Attached		<u> </u>				
VENTS:						
Real cold equipment ha	ard starting,	oelow zero with wind				
This weather is reall	y slowing this	ngs down, wind, teme	s and snow			
a) important Calls b) important Co	nversations c) Extr	a Work d) Safety Evaluation e	Delays f) Changes in Work			

Vbc Working on 6" Was from Thickener to Blower Building laying pipe, real cold today	
Columbia Basin Rebar Not onsite	
Colstrip Electric Not Onsite	
GreatWest Onsite today working in office, Neil and Chris are doing some kinda of testing on the Uv System (water) loing compactions tests also on 6" WAS line	
loing compactions tests also on 6" WAS line	
Start-Up;	-
	_
	<u> </u>

			A HAR TO					
Prepared By	Clay Pipinich		LY FIELD				Page	1 of 2
Job No. / Name	1387/Laurel					Date	. ugo	2/27/2014
						Day		Thursday
M11 0 114								
Weather Conditions Temperature	Bright Sun X to 31	Clear 32-49	X Overcast. 50-69	Rain 70-84	Snow		Cold 1	<u>today</u>
Wind Conditions	Still	Moderate		Humidity	85 - Up	X Moderate	1 1	-tumid
OWNER / ENGINEER		Chris Reed/C		-		A IMOOBIATO	<u> </u>	101110
VISITORS TO JOB:	A1 0115.	Of 11 13 1 100011	Si Galloat (+00	1001-1100				
Name / Craft	Hours				e / Craft	Hours		Work Item
Scott McDonald	10	6" Was To B						
2 Ed Sable 3 Jake Prevel	0	Weather / No						
4 Nick Bowen	10	6" Was To B 6" Was To B		_ 11				
5 Colter Day	10	6" Was To B		- ¹²				
6	10	O Was IU D	IOWEI DIU	13				
7				15				
8				16				
				1 14				
Name	# of Imp	W	/ork	N	eme	#of Imp		Work
1 Harris Rebar	0			7				
2 CEI	0	No Show		8				
3				9				
4				10				
5				11				
6				12				
Туре	Model	St	atus	·	уре	Model		Status
1 PC 50 Komatus Mini				6 2000 Chev				
2 380 Komatus Loader				7 Kawasaki N	Mules		2 each	
3 New Holland Skid stee	r			8 Miller Weld				
4 Cat Blade				Rs8 Gehl G	Grad-al			
5 Ford Water Truck				10				
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposit	ion N	otes / Rema	rks / Storage Area
1								
2	_					· 		
3					. —	-		
4		-			- —			
5	-	_			Disposition	- A = Accept / N = 1	Venconformisk	/ R = Reject
V	Vork Item			Prog	угесь			Station / % Cor
1 See Attached								
2								
3								
4								
5								
6			-					
7					7			
8								
EVENTS:								
								11-11-11-11
111111111111111111111111111111111111111								
Real cold equipment h	ard starting	below zero w	ith wind					
very som edmbutett t	ner w wrom tirry,				,			
This weather is real	ly slowing this	nas down wi	nd, temos o	nd snow				
a) Important Calls b) Important C	onversations c) Extr	ra Work d) Safety I	Evaluation e) Dela	rys f) Changes in Work				

Wbc Working on 6" Was from Thickener to Blower Building laying pipe done, cold today, stripping encasement at Thickener Bid tied up reba and forming next pour 4" drain line in Thickener Bid, exc and installing 4" drain from Uv Into 24" RCP Sewer Main unloaded Clarifier drives today
and forming next pour 4" drain line in Thickener Bid, exc and installing 4" drain from Uv into 24" RCP Sewer Main
unloaded Clarifier drives today
Columbia Basin Rebar Not onsite
Colstrip Electric Not Onsite
GreatWest Onsite today working in office, doing compactions tests also on 6" WAS line
MINISTER CHARLE WART MAINING IN ALIES AND SALIPHONOMIC TOOL MAN AND ALL THE MINE
Start-Up;
· · · · · · · · · · · · · · · · · · ·
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4 ***

Prepared By	Clay Pipinich	n DAI	LY FIELD	REPORT			Page 1 of
Job No. / Name	1387/Laurel	WWTP				Date	3/3/201
				_		Day	Monda
Weather Conditions	Bright Sun	Clear [X Overcast.				
Temperature	to 31	X 32-49	50-69	Rain 70-84	Snow 85 - Up		Cold Morning
Wind Conditions	X Still	Moderate	High	Humidity		X Moderate.	A lot of snow
OWNER / ENGINEER		Chris Reed/G					11001110
VISITORS TO JOB:				,			
Name / Craft 1 Scott McDonald	Hours				e / Craft	Hours	Work Herr
2 Ed Sable	10	6" Filtrate Line		- •			
3 Jake Prevel	10	Thickener Pip 6" Filtrate Line	e Encase	10			
4 Nick Bowen	10			11			
5 Colter Day	0	Thickener Plp No Work / Sig		12			
s Collei Day		INO WORK / SIC	ж	13			
7				-			
8				15			
-		I		16			
Name	# of Imp	W	ork	M	ama	#of imp	Work
1 Harris Rebar	0		<u> </u>	7		no and	TURK
2 CEI	0	No Show		8			
3				9			
4				10			
5		. ***		11			
6				12			
Туре	Model	Sta	itus	T	уре	Model	Status
PC 50 Komatus Mini				s 2000 Chevy	y 3/4 Ton		
2 380 Komatus Loader				7 Kawasaki N	<i>l</i> ules		2 each
3 New Holland Skid stee	r			a Miller Weld	er		
Cat Blade		<u></u>		Rs8 Gehl G	Grad-al		
5 Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered	by Inspected by	Dispositi	on N	otes / Remarks / Storage /
1							
2	_	-					
3	_						
4							
5					Disposition	= A = Accept / N = I	ionconformist / R = Reject
	fork Hem			Prog	ress		Station / %
See Attached							
2							
3							
4							
5							
6	.						
7							
8 EVENTS:					•		
4400	A Namah	Di-a	***				
Pipe Fuser is in town o	IT NOPTHWEST	ripe					
Snowed about 12 more	a inchas last ::	ugakand					
SHOWED ADOUT LE MOP	e inches kist w	reekena					•
Real cold equipment h	and stanting !	helow zero wit	th wind				
ment com equipment n	aru siaring, l	COUNTELO MI	III WITU				
This weather is real	v elowino this	nos down win	d tempe a	nd snow			
a) important Calls b) important Co							

Wbc Snow removal, tied rebar and formed up pipe encasements in the Thickener for drains, putting pipe rap on 6° dip and getting materials rounded up for 6° Filtrate line, sealing concrete floor with Densifier J13 a Dayton Superior	1
materials rounced up for 6" Fittrate line, sealing concrete floor with Densitier J13 a Dayton Superior	
Columbia Basin Rebar Not onsite	
Colstrip Electric Not Onsite	
Colour P Elocation 1404 Office	
GreatWest Onsite today working in office	
Start-Up;	
out-op,	
	. "

Prepared By	Clay Pipinich	DAILY FIELD	REPORT		Page 1 of 2
Job No. / Name	1387/Laurel			Date	3/4/2014
				Day	Tuesday
				Day	luesuay
Weather Conditions	Bright Sun	X Clear X Overcast.	Rain Sno		Cold Morning
Temperature Wind Conditions	to 31	X 32-49 50-69 High		- Up	A lot of snow
OWNER / ENGINEER /		<u></u>		X Moderate	Humid
VISITORS TO JOB:	AI SHE:	Chris Reed/Greatest (406)	0 561-7705		
TIGHTONG TO GOD.					
Name / Craft	Hours		Name / Craft	Hours	Work Item
1 Scott McDonald	10	6" Filtrate Line	9		
2 Ed Sable	10	Uv Seal Floors	10		· · · · · · · · · · · · · · · · · · ·
3 Jake Prevel	10	6" Filtrate Line	11		
4 Nick Bowen	10	6" Filtrate Line	12		
5 Colter Day	1	Seal Uv / Sick Left Early	13		
6					
7			15		
8			16		
Name	# of Imp	Work	Nama	#of Imp	Work
1 Harris Rebar	0	N. 01	7		
2 CEI	0	No Show	8		
3			9		
4			10		
5			11		
6			12		
Type Type	Model	Status	Type	Model .	Status
PC 50 Komatus Mini			6 2000 Chevy 3/4 T	on	2h
2 380 Komatus Loader		<u> </u>	7 Kawasaki Mules		2 each
New Holland Skid steer 4 Cat Blade			 Miller Welder Rs8 Gehl Grad-al 		
5 Ford Water Truck					
5 FOID Water HUCK			10		
Product Description	PO#	Shipper Delivered	by Inspected by Di	sposition N	otes / Remarks / Storage Area
1 3/4" Bedding	10#	Fisher Fishe		Pipe Bed	
		<u> </u>		(156.57 t	
2				(130.57 0	J110 <i>)</i>
3	·			·······	
			 		
	<u> </u>		Disp	osition = A = Accept / N = I	lonconformist / R = Reject
	ork Item		Progress		Station / % Con
1 See Attached				***	
2					
3					
4					
5					
6					
7		· · · · · · · · · · · · · · · · · · ·			
EVENTS:					
EVENIO:					4.5.4.***
Ulandad dawatanina w	ateriale siss	and some misc fittings			
Clouded dewatering m	urerials pipe	und some misc fittings			
This weather is real	y slowina thi	ngs down, wind, temps a	nd snow		
	,	a Work d) Safety Evaluation a) Dela	- A Of		

Wbc puttin	g pipe rap on 6" dip and getting	materials rounded up for 6'	Filtrate line, started Filt	rate line from MH west of	Headworks
heading to Ti	hickener Bld, sealing floors in the d in 3/4" bedding today 6 loads t	e Uv Building 3 coats, the b	ackfill material is really v	wet	
Fisher hauled	d in 3/4" bedding today 6 loads t	ruck and pup			
		•			
Columbia Ba	sin Rebar Not onsite				
Calatria Elec	tria Not Onella				
Coistrip Elec	tric Not Onsite		 		
	-		·		•
GreatWest	Onsite today working in office				<u></u>
Croativous	. Onesto today working in Onico				
Start-Up:					
					<u> </u>
					·· ·· ··
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					······································
		•			
	345				
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<u> </u>					
			<u>.</u>		
					•

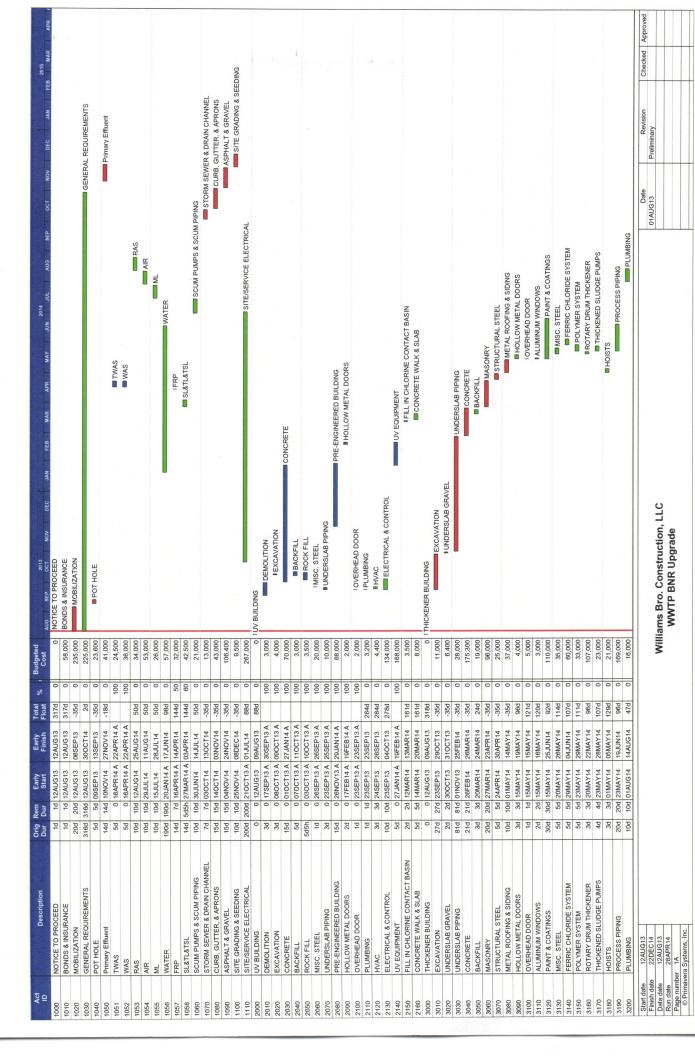
1			-		

	<u> </u>				The Re		
Prepared By	Clay Pipinich	,	ILY FIELD I	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel	WWTP				Date	3/5/2014
				-		Day	Wednesday
Weather Conditions	Bright Sun	X Clear	X Overcast.	Rain	Snow		
Temperature	to 31	X 32-49	50-89	70-84	85 - Up		
Wind Conditions	X Still	Moderate	High	Humidity	Dry	X Moderate	Hurnid
OWNER / ENGINEER	AT SITE:	Chris Reed/0	Greatest (406)	581-7705			
VISITORS TO JOB:							
Name / Craft 1 Scott McDonald	Hours 10	6" Filtrate Lir		Ť	e / Craft	Hours	Work Item
Ed Sable	10	Miles City	10	10			
Jake Prevel	10	6" Filtrate Lir	\ <u></u>	11			
Nick Bowen	10	6" Filtrate Lir		12			
Colter Day	0	No Work / Si		13			
B							
- 7				15			
8		1		16			
				·			
Name	# of Imp	V	Vork	I N	ame	#of Imp	Work
1 Harris Rebar	0			7			
² CEI	0	No Show		8			
3				9			
4				10			
5				11			
6				12			
Тура	Model	S	tatus		Гуре	Model	Status
PC 50 Komatus Mini				6 2000 Chev			
2 380 Komatus Loader				7 Kawasaki I			2 each
3 New Holland Skid stee	Г			s Miller Weld			
4 Cat Blade				Rs8 Gehl C	Grad-al		
5 Ford Water Truck				10			
Product Description	PO#	Shipper	Delivered		/ Disposit		otes / Remarks / Storage Area
1 3" Minus		<u>Fisher</u>	Fisher	<u> </u>		Structura	
2	_					(219.39 t	ons)
3							
4	_	_					
5		_			Discoslico	n = A = Accept / N = 1	Nonconformist / R = Reject
W	fork Item			Pro	дгева		Station / % Co
1 See Attached			_				
2							
3							
4							
5							
6			-				
7							
8							
EVENTS:			T SAM				
Meeting with the COL	Greatwest, (city of Laure	i, Wbc				
		013:4:4	al_L				
Snow is holding us up	on inickener	BIG INTERIOR	siad and pipe	encasement			
Mad Assessed in Part I	daus == 11== =:		** TIC	naina dana ura	tina time :	with ours	
Had to rent a double	arum roller al	nu sent ours	IN ICE FOR PE	pairs done was	ING TIME	4.111 OUI 3	
This weather is real	ly slawina +hi	nos down w	ind temps of	ad snow			
a) important Calls b) important C	orwanistics of Ex	m Work d) Safety	Evaluation at Dela	vs f) Changes in Worl	(
a) majorizate como D) nisporizate O	Someone C/EAL	rrun ujummeny		,, 			

Wbc putting pipe rap on 6" dip and getting materials rounded up for 6" Filtrate line, started Filtrate line from MH west of Headworks heading to Thickener Bid, sealing floors in the Uv Building 3 coats, the backfill material is really wet Fisher hauled in 3/4" bedding today 6 loads truck and pup
Fisher hauled in 3/4" bedding today 6 loads truck and our
Columbia Basin Rebar Not onsite
Colstrip Electric Not Onsite
Colstip Electric Not Onsite
GreatWest Onsite today working in office, doing trench compaction tests
Start-Up:
·

Prepared By	Clay Pipinich	DAILY	FIELD	REPORT			Page 1 of 2
Job No. / Name	1387/Laurel					Date	
VOO TTO. I TTOING	10077 (2001 21			_		Date	3/6/2014 Thursday
						Day	Thursday
Weather Conditions Temperature	Bright Sun		Overcast.	Rain	Snow		
Wind Conditions	to 31		50-69 Hìgh	70-84 Humidity	85 - Up		
OWNER / ENGINEER		<u> </u>			Dry	X Moderate	Humid
VISITORS TO JOB:	MI SIIE.	Chris Reed/Grea	<u>ilesi (400)</u>	581-7705	***************************************		
VISITORIO TO COD.							
Name / Craft	Hours			Nam	e / Craft	Hours	Work Item
1 Scott McDonald	10	6" Filtrate Line		9		11323	
² Ed Sable	10	Uv Sealing Floor	rs	10			
s Jake Prevel	10	6" Filtrate Line		11			
4 Nick Bowen	10	6" Filtrate Line		12			
5 Colter Day	0	No Work / Sick		13			
6							
7				15			
8				16			
Name . Uswie Debes	# of Imp	Work			ame	#of Imp	Work
1 Harris Rebar 2 CEI	0	Ala Ohani		7			
² CEI	0	No Show		8	_		
3				9			
4				10			
5				11			
6				12			
Type 1 PC 50 Komatus Mini	Model	Status		6 2000 Chev	ype	Model	Status
2 380 Komatus Loader				7 Kawasaki M			2 each
3 New Holland Skid steer	-			a Miller Weld			2 Gacii
4 Cat Blade	<u> </u>			9 Rs8 Gehl G			
5 Ford Water Truck				10	n au-ai		
The state of the s							
Product Description	PO#	Shipper	Delivered	by Inspected by	Disposi	ition N	otes / Remarks / Storage Area
1 3/4" Bedding	7	Fisher	Fisher			Pipe Bed	
2			7 10110			(000.00 t	
3	~ ~	•					
4							
5							
					Dispositio	n = A = Accept / N = I	Nonconformlet / R = Reject
	ork Item			Prog)ress		Station / % Co
1 See Attached							
3				- <u>-</u> -			
		`					
5							
4				•			
7						***	
8							
EVENTS:							
Snow is holding us up	on Thickener	Bld interior slab	and pipe	encasement			
Had to rent a double of	drum roller ar	d sent ours to T	&E for re	pairs done wast	ing time v	with ours	
							·
This weather is real	y slowing this	ngs down, wind,	temps ar	nd snow			
a) Important Calls b) Important Co	rrversations c) Extr	a Work d) Safety Evalu	ation e) Delay	/s f) Changes in Work			

Wbc putting pipe rap on 6" dip and getting materials rounded up for 6" Filtrate line, started Filtrate line from MH west of Headwork's heading to Thickener Bld, sealing floors in the Uv Building 3 coats, the backfill material is really wet poured 4" encasements with some extra mud from another pour Chris said that's fine unloaded yard hydrants today
heading to Thickener Bld, sealing floors in the Uv Building 3 coats, the backfill material is really wet
poured 4" encasements with some extra mud from another pour Chris said that's fine
unloaded yard hydrants today
·
Columbia Basin Rebar Not onsite
Colstrip Electric Not Onsite
Colstrip Electric Not Offsite
GreatWest Onsite today working in office, doing trench compaction tests, they go on and off to check out the Bridger Job
· · · · · · · · · · · · · · · · · · ·
Start-Up:
ошт-ор.



2014 2015 Jan Feb war apr may jul aug sep oct nov dec jan feb war apr	■ HVAC	ELECTRCAL & CONTROLS		IDEWATERING	EXCAVATION	UNDERSLAB GRAVEL	CONCRETE SLAB	CONCRETE WALLS	STRUCTURAL BACKFILL	STRUCTURAL WALKWAY	MISC, STEEL	AERATION	■ RECIRCULATION PUMPS	PROCESS PIPING		IEXCAVATION	UNDERSLAB ELECTRICAL	CONCRETE	■ BACKFILL	BFRAMING	BAILNEG	METAL ROOF & SIDING	■HVAC	ELECTRICAL		DEMOLITION	BLOWERS	II AIR COMPRESSORS	SODIUM HYPOCHLORITE SYSTEM	RAS/WAS PUMPS	PROCESS PIPING	■ PLUMBING	PAINTING	HVAC	ELECTRICAL & CONTROLS		DEMOLITION	CONCRETE	MISC. STEEL	■ MIXERS	- AERATION		DEMOLITION	CLARIFIERS	DEMOBILIZATION
2013 AUG SEP OCT NOV DEC			AERATION BASIN												BASIN ELECTRICAL BUILDING										BLOWER BUILDING											ANAEROBIC-ANOXIC BASIN						CLARIFIERS			
Budgeted Cost	35,000	200,000	0	110,000	000'89	18,900	000'96	381,000	000'09	54,000	45,000	42,000	41,000	56,000	0	200	000'9	8,600	2,000	8,500	1,000	0000'9	7,400	334,000	_	33,000	440,000	47,000	30,000	114,000	230,000	35,900	76,000	33,200	334,000	0	35,000	162,000	45,000	53,000	3,000	0	7,200	145,000	25,000
Bu ' %	0	0	0	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	0
Total Float	47d	-35d	318d			0	35d	35d	35d	35d	40d	35d	46d	35d	318d	46d	46d	46d	46d	46d	52d	52d	52d	46d	318d	-35d	47d	73d	73d	26d	26d	p99	26d	26d	-35d	318d	-33d	-33d	-33d	-32d	-33d	318d			-35d
Early Finish	28AUG14	25JUN14	09AUG13	28MAR14 A	25APR14 A	09MAY14	30MAY14	27JUN14	21JUL14	11AUG14	08SEP14	15SEP14	29AUG14	25AUG14	09AUG13	22JUL14	24JUL14	31JUL14	04AUG14	08AUG14	21AUG14	18AUG14	21AUG14	29AUG14	09AUG13	14AUG14	31JUL14	16JUL14	23JUL14	11JUL14	05SEP14	01AUG14	26SEP14	26SEP14	020CT14	09AUG13	300CT14	27NOV14	11DEC14	17DEC14	18DEC14	09AUG13	0 17MAR14 A 11APR14 A	0 24MAR14 A 22APR14 A	22DEC14
슬넕					$\overline{}$																																						R14 A 1	R14 A 2	
n Early r Start	10d 15AUG14	30d 15MAY14	0 12AUG13	0 02APR14 A	0 02APR14 A	10d 28APR14*	15d 12MAY14	25d 26MAY14	10d 08JUL14	15d 22JUL14	20d 12AUG14	15d 26AUG14	4d 26AUG14	10d 12AUG14	0 12AUG13	1d 22JUL14	2d 23JUL14	5d 25JUL14	2d 01AUG14	4d 05AUG14	3d 19AUG14	6d 11AUG14	3d 19AUG14	15d 11AUG14	0 12AUG13	35d 26JUN14	15d 11JUL14	3d 14JUL14	5d 17JUL14	9d 30JUN14	40d 14JUL14	10d 21JUL14	15d 08SEP14	15d 08SEP14	35d 15AUG14	0 12AUG13	20d 03OCT14	20d 310CT14	10d 28NOV14	4d 12DEC14	5d 12DEC14	0 12AUG13	0 17MA	0 24MA	10d 09DEC14
Orig Rem Dur Dur	10d 10	30d 3C	0	20d		10d 10	15d 15	25d 25	10d 10	15d 18	20d 20	15d 18	4d ,	10d 10	0	1d	2d ;) pg	2d	4d			3d	15d 1	0	35d 3	15d 1		2d	p6		10d			35d 3	0	20d 2	20d 2	10d 1	4d	2d	0	14d	10d	10d
Description	HVAC	ELECTRCAL & CONTROLS	AERATION BASIN	DEWATERING	EXCAVATION	UNDERSLAB GRAVEL	CONCRETE SLAB	CONCRETE WALLS	STRUCTURAL BACKFILL	STRUCTURAL WALKWAY	MISC. STEEL	AERATION	RECIRCULATION PUMPS	PROCESS PIPING	BASIN ELECTRICAL BUILDING	EXCAVATION	UNDERSLAB ELECTRICAL	CONCRETE	BACKFILL	FRAMING	PAINTING	METAL ROOF & SIDING	HVAC	ELECTRICAL	BLOWER BUILDING	DEMOLITION	BLOWERS	AIR COMPRESSORS	SODIUM HYPOCHLORITE SYSTEM	RAS/WAS PUMPS	PROCESS PIPING	PLUMBING	PAINTING	HVAC	ELECTRICAL & CONTROLS	ANAEROBIC-ANOXIC BASIN	DEMOLITION	CONCRETE	MISC. STEEL	MIXERS	AERATION	CLARIFIERS	DEMOLITION	CLARIFIERS	DEMOBILIZATION
Act ID		3220												4110	2000	5010					2060																7010	7020	7030	7040	7050			8920	0006

Date	Revision	Checked	Approved
01AUG13	Preliminary		

Williams Bro. Construction. LLC	WAYTO BND Harrado	MAN CONTRACT
Finish date 22DEC14 Data date 12AUG13		age number 2A