

SUBMITTAL TRANSMITAL

September 29, 2011 WCM Submittal No: 11321-001.A

- PROJECT: Harold Thompson Regional WRF Birdsall Rd. Fountain, CO 80817 Job No. 2908
- ENGINEER: GMS, Inc. 611 No. Weber St., #300 Colorado Springs, CO 80903 719-475-2935 Roger Sams
- OWNER: Lower Fountain Metropolitan Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heckman
- CONTRACTOR: Schloss Engineered Equipment, Inc. 10555 E. Dartmouth Ave., Suite 230 Aurora, CO 80014 303-695-4500 Linda Wood

SUBJECT: Resubmittal for Grit Separator Equipment

SPEC SECTION: 11321 - Grit Separator Equipment

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: ____YES X__NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:	Engineer's Stamp:
Date: 9/29/11 Reviewed by: H.C. Myers (X) Reviewed Without Comments () Reviewed With Comments	
ENGINEER'S COMMENTS:	

RESUBMITTAL COMMENTS

HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY FOUNTAIN, COLORADO

ENGINEER: GMS, INC. CONTRACTOR: WEAVER GENERAL CONSTRUCTION

SPECIFICATION SECTION 11321 - GRIT SEPARATOR EQUIPMENT

SCHLOSS ENGINEERED EQUIPMENT, INC. PROJECT NO. 1757-11

Schloss Engineered Equipment, Inc. (SEE) is resubmitting on one (1) Type 12SW-CL grit classifier with cyclone for the above referenced project. Included with this resubmittal is a revised general arrangement drawing. The following comments are furnished in direct response to the Engineer's comments on the previous submittal and subsequent conference call with Mr. Roger Sams with GMS, Inc.

1.a By contractor.

1.b Actually, a direct connected drive requires much less maintenance and gear replacement than a v-belt drive. The direct connection between the motor and reducer eliminates overhung load due to the sheaves and v-belt connection, thereby extending the life of the reducer bearings. In addition, the v-belt is the fastest wearing item and is eliminated with a direct connection.

2. As previously submitted, the spray nozzle can spray grit off the screw, so SEE doesn't recommend a spray nozzle. Additional wash water is optional. The water connection is designed to allow the water to trickle down the side of the trough to break up the grit dead bed if the dead bed seals against the screw and causes the screw to convey too much water to the discharge. Furthermore, additional water can be added to dilute the water in the tank if necessary to minimize hindered settling.

3. By contractor.

4. The materials are listed on the material list on General Arrangement Drawing 1757-11-C1. For clarification, SEE has revised the material designation HRS (hot rolled steel) to A36.

- 5. Please refer to comment 2.
- 6. Please refer to comment 1.b.
- 7. By contractor.
- 8. By contractor.

9. The only seals and gaskets for the grit classifier are in the speed reducer. Therefore, SEE will provide one spare set of seals and gaskets for the speed reducer.

10. Confirmed.

11. Typically, start up of the grit equipment takes 1-2 days. Since Fountain is so close to SEE headquarters in Aurora, additional visits will made if necessary. This worked well for the existing grit equipment SEE previously provided to Fountain.

12.a. Skirt board for grit discharge to be by contractor to fit.

12.b. The grit classifier can be mounted on a concrete pad per the contractor and engineer. SEE has revised General Arrangement Drawing 1757-11-C1 to reflect the requested discharge elevation.

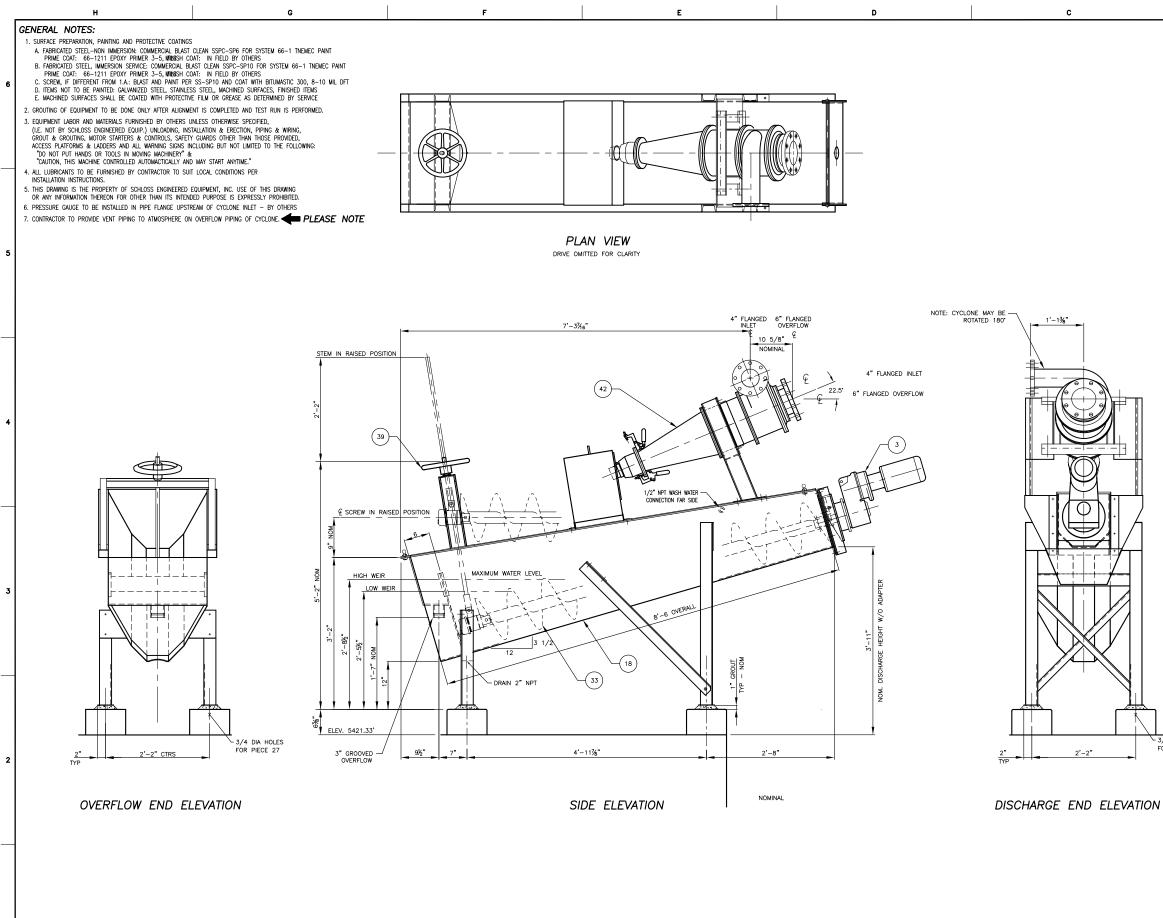
12.c. The location of the support leg of the grit classifier has been revised. Please verify dimensions shown on General Arrangement Drawing 1757-11-C1.

12.d. The note refers to the skirt board and was only noting the nominal discharge height. SEE apologizes for the confusion.

- 12.e. The side elevation has been revised.
- 12.f. By contractor.

Contractor to verify voltage and all dimensions.

9/29/11



FORM: SEE2234A 110929

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				MATERIAL LIST		
DENTI	FICATION					
		QUANTITY	DWC OR	SPECIFICATION	REFERENCE	SYMBOL
OUP			DWG. OR PART NO.	NAME, DESCRIPTION, MATERIAL		$\downarrow \bigcirc$
	1	ONE		TYPE 12SW-CL GRIT WASHER, 12" DIA X 8'-0"		
				EACH MACHINE CONSISTS OF THE FOLLOWING:		
	3	ONE		DRIVE ASSEMBLY		
	4	1		MOTOR, 1/2 HP, 1725 RPM, 3-60-230/460		
	6	1		FRAME 56, TEFC, EXP PROOF REDUCER		
	0	'		REDUCER		
	13	1		PIVOT PLATE	A36	
	14	2		PIVOT PLATE SUPPORT BRACKET	A36	
	15	1		PIVOT SHAFT	304 SST	
	18	ONE		TANK ASSEMBLY		
	19	1		TANK W/FLARED SIDES, OPEN END DISCHARGE AND	A36	
				INTEGRAL OVERFLOW, 1/4" THK PLATE,		
	21	1		OVERFLOW, 3" GOE	A36	
	22	1		TANK DRAIN, 2" NPT	A36	
	23	1		TANK SUPPORT, DISCHARGE END	A36	
	24	2		SUPPORT BRACE, OVERFLOW END	A36	
	25	2		SUPPORT BRACE, DISCHARGE END	A36	_
	26	2		SUPPORT LEG, OVERFLOW END	A36	
	27 28	4 10T		EPOXY ANCHOR, 5/8" X 7" LG - BY OTHERS BOLTED EXPANDED METAL COVERS	304 SST	
	20	LOT		BULIED EXPANDED METAL COVERS	304 SST	+
	30	4		EYE BOLT		
	- 30	- T				-
	32	ONE		GRIT SCREW ASSEMBLY		
	33	1		SECTIONAL SCREW, 12" DIA., 3/16" THK FLIGHTS,		
				RIGHT HAND FLIGHTS, 50% PITCH	A36	
	35	4		COUPLING BOLTS	304 SST	
	36	SET		WEAR SHOES, AR W/STAINLESS STEEL CSK BOLTS		
	37	1		SEALED LOWER BEARING ASSEMBLY		
	39	ONE		LIFTING DEVICE ASSEMBLY WITH HAND WHEEL		
	40	1		STRUCTURAL SUPPORT		
	41	1		THREADED ROD WITH HARDWARE		
	44	ONE		SEWAGE DEGRITTING ASSEMBLY		
	45	1		CYCLONE, KREBS D10LB-845 COMPLETE WITH GUM		+
				RUBBER LINERS, 4" VORTEX FINDER, 2" DIA		
	40			ADJUSTABLE APEX, 4" FLG. INLET, 6" FLG. OVERFLOW		+
	48 49	1	-	PRESSURE GAUGE AND DIAPHRAGM ASSEMBLY	BRONZE	+
	49 50	1		VALVE, SOLENOID, 120V, N.C., 3/8" NPT, NEMA 7 VALVE, GLOBE, 3/8" NPT	BRONZE	
	- 30			METE, GLUDE, J/O NET	DRUNZE	+
	51	1		CYCLONE SUPPORT	A36	-
	52	1		CYCLONE DISCHARGE SPLASH BOX	A36	+
		<u> </u>			100	+
	54	LOT		ASSEMBLY FASTENERS	18-8 SST	+
	· ·					+
	56	1		WASH WATER CONNECTION, 1/2" NPT, SCH 40	A36	
	60	LOT		SPARE PARTS:		
	04	1 SET		SEALS FOR REDUCER		
	61					
	62	1		LOWER BEARING ASSEMBLY		

- 3/4 DIA HOLES FOR PIECE 27





^{ππ}ε 12" DIA SW-CL - GRIT CLASSIFIER/WASHER GENERAL ARRANGEMENT AND ASSEMBLY FOR: HAROLD D. THOMPSON RWRF, FOUNTAIN, CO A 9/29/11 REV ELEV'S, DISCHG SUPPORT ENGINEER: GMS, INC. - COLORADO SPRINGS, CO DATE DESCRIPTION OF REVISION REV.
Operation
<t 1757—11—C1 A PLOT SIZE: 12 в