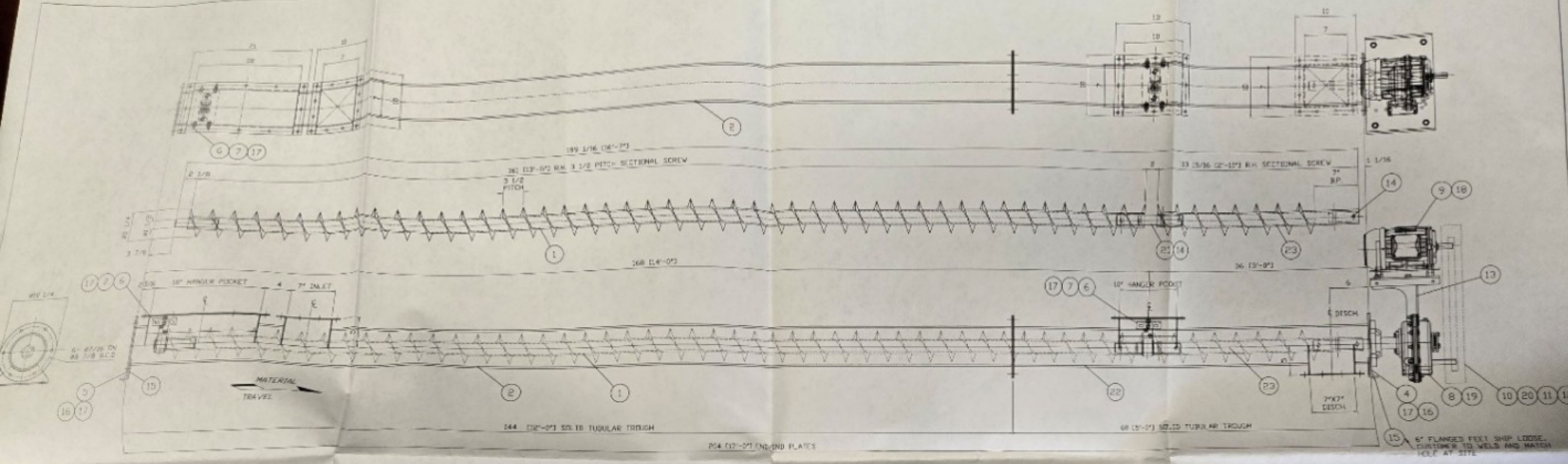
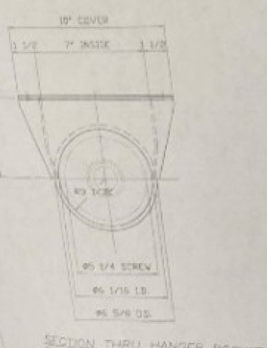


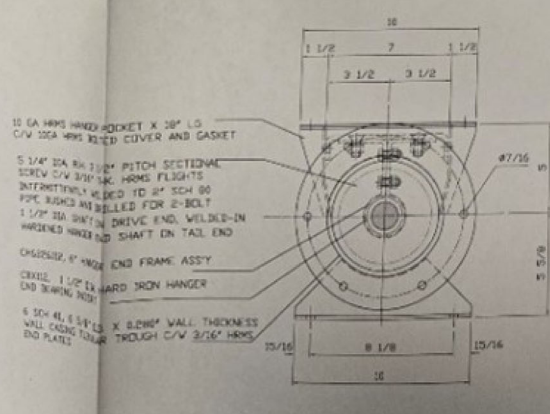
5 1/4" DIA. TUBULAR SCREW CONVEYOR GENERAL ARRANGEMENT – TAG SC-408

SCALE 1 1/2" = 1'-0"

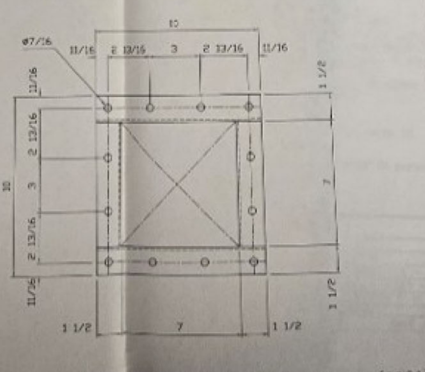
NOTE:
THIS CONVEYOR IS INCLINED AT 30.00 DEGREES.
ALL SUPPORTS BY OTHERS



SECTION THRU HANGER POCKET
SCALE 1 1/2" = 1'-0"



SECTION THRU CONVEYOR
SCALE 1 1/2" = 1'-0"



INLET/DISCHARGE FLANGE DETAIL (10GA)
SCALE 3" = 1'-0"

NOTES

1. 5 1/4" DIA TUBULAR SCREW CONVEYOR DESIGN SPEC. BASED ON THE FOLLOWING:
   - OVERALL LENGTH - 17'-0" END PLATE TO END PLATE
   - INCLINE DEGREES - 30 DEG.
   - CAPACITY - 10 CFH
   - PRODUCT - SLUDGE MATERIAL
   - PRODUCT DENSITY - 42 lb/cu ft
   - FINAL RPM - 62
2. PAINT SPECIFICATION
   - EXTERIOR PAINT SYSTEM - PRIMER ONLY
   - EQUIPMENT COLOR: N/A

   SAFETY GUARDS:
   - PREPARATION SSPC-2
   - PRIMER: ONE (1) COAT OF ALKYD PRIMER
   - FINISH: ONE (1) COAT OF ALKYD QUICK AIR DRY ENAMEL
   - COLOR: SAFETY ORANGE - 549-N0(?)
3. CONVEYOR TO BE SHOP ASSEMBLED AND TEST RUN PRIOR TO SHIPMENT
4. CONVEYOR TO BE MATCH MARKED AND TAGGED PRIOR TO SHIPMENT
5. EQUIPMENT TAG No.
   - SC-408

ITEM	PART NO.	DESCRIPTION	
23	C990-3160W	5 1/4" DIA R.H. 3 1/2" PITCH SECTIONAL SCREW X 2'-9-15/16" C/W 3/16"	1
		THK HRMS FLIGHTS INTERMITTENTLY WELDED TO 2" SCH 80 PIPE BUSHED	
		AND DRILLED FOR 1 1/2" DIA 2-BOLT SHAFT, C/W BARE PIPE	
22	36733W	6" SCH 40 SOLID TUBULAR TROUGH WELDMENT X 5'-0" LG C/W 7"X10"	1
		HANGER BEARING POCKET AND CSDG8 7"X7" STUB DISCHARGE FITTED	
21	29CC02	CC112-H, 1 1/2" DIA. HARDENED COUPLING SHAFT, 2-BOLT	1
20		B67 V-BELT - 21.19" CTRS	2
19		5/8" UNC X 2 1/2 GR5 HEX BOLT C/W NUT, LW & FW	4
18		3/8" UNC X 2 GR5 HEX BOLT C/W NUT, LW & FW	4
17		3/8" UNC X 1" WHIZLOCK BOLT C/W NUT	[illegible]
16		STANDARD CAULKING FOR END FLANGE CONNECTIONS	[illegible]
15	1061502	10GA TUBULAR TROUGH SUPPORT FOOT	[illegible]
14		1/2" UNC X 3" GR5 COUPLING BOLT C/W UNI-TORQUE NUT	[illegible]
13	201300A	DODGE TA0107 MOTOR MOUNT - X3198	[illegible]
12		2B105SK MSK DRIVEN SHEAVE C/W SDS 1 MSK BUSHINGS	[illegible]
11		2B56SDS MSK DRIVE SHEAVE C/W SDS 7/8 MSK BUSHINGS	[illegible]
10	1061528W	ENCLOSED V- BELT DRIVE GUARD	
9		2HP, WEG W22 TEFC NEMA PREM. EFF. ELEC. MOTOR	
		3/60/460V, 1800 RPM FRAME 145T	
8		MODEL TA0107L15 DODGE SHAFT MOUNTED REDUCER UNIT MOUNTED AT 30...	
		END, RATED FOR CLASS II SERVICE AT 62 RPM OUTPUT SPEED WITH NOM...	
		1 1/2" DIA. DRIVE SHAFT, AND SCF ADAPTOR KIT TO SUIT	
7		CB1102, 1/2" DIA. HARD IRON HANGER END BEARING INSERT	
6		CH6226102, 6" HANGER END FRAME STYLE 226 FOR 1 1/2" DIA. BEARING	
5	1061527	7GA HRMS TUBULAR TROUGH BLANK TAIL END PLATE	
4	1061526	7GA HRMS TUBULAR TROUGH DRIVE END PLATE FOR 1 1/2" DIA SHAFT	
3			
2	36732W	6" SCH 40 SOLID TUBULAR TROUGH WELDMENT X 12'-0" LG C/W 7"X10"	
		HANGER BEARING POCKET AND 7"X7" SQ FLANGED INLET FITTED	
1	C990-3141W	5 1/4" DIA R.H. 3 1/2" PITCH SECTIONAL SCREW X 13'-5" LG C/W 3/...	
		THK HRMS FLIGHTS INTERMITTENTLY WELDED TO 2" SCH 80 PIPE BUS...	
		AND DRILL ON DRIVE END FOR 1 1/2" DIA 2-BOLT SHAFT, TAIL END	
		WELDED-IN 1 1/2" DIA HARDENED HANGER END SHAFT, AND BARE PI...	

DATE	REV.	REVISION	INITIALS
30JAN2023	6	CORRECTED MOTOR	KAK
26JAN2023	5	CORRECTED COUPLING SHAFT P/N	KAK
21DEC2022	4	RELEASED FOR CONSTRUCTION	V.K.
21DEC2022	3	UPDATED DISCHARGE FROM ... TO FITTED	V.K.
20DEC2022	2	INCREASED CONVEYOR LENGTH ... ADDED HANGER POCKET, HANGER, COUPLING SHFT, UPD. AUGER PIPE	V.K.
17DEC2022	1	ADDED TAG & FLANGE ...	KAK

DR. V.K. | TR. | CHK. | DATE 1 DEC 2022

ARJAE DESIGN SOLUTIONS LTD, NISKU, AB

5 1/4" DIA. INCLINED TUBULAR SCREW CONVEYOR ASS'Y X 17'-0" LG

MATERIAL: AS NOTED

SCALE: NOTED

DWG NO. 403177A

Nordstrong Equipment Limited