

SUSQUEHANNA SERVICES INC.

PUGMILL

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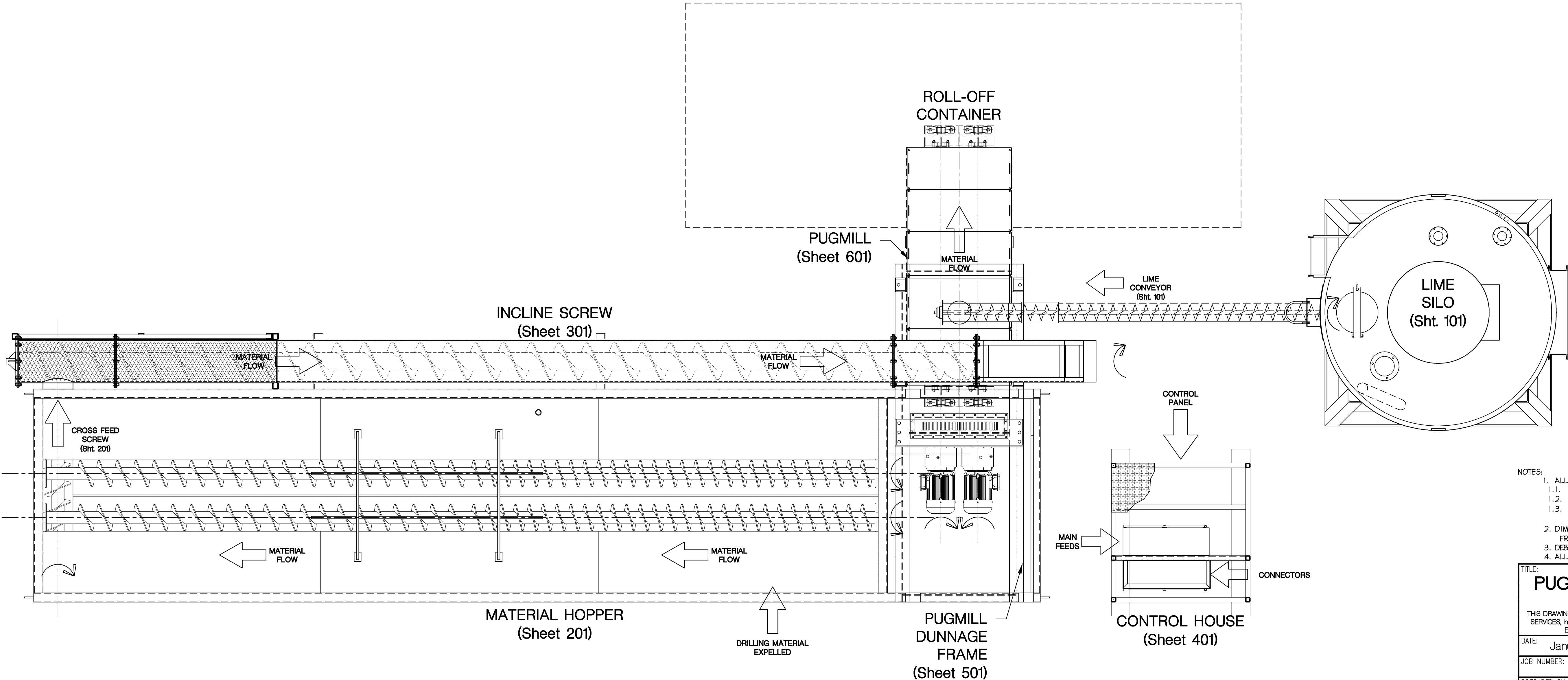
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STEEL NOTES

- STRUCTURAL STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES' AND SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN, LATEST EDITION
- STEEL MATERIALS:

W-SHAPES:	ASTM A 992,	Fy=50,000 psi
CHANNELS, ANGLES	ASTM A 36,	Fy=36,000 psi
PLATE AND BAR	ASTM A 36,	Fy=36,000 psi
COLD-FORMED HOLLOW STRUCTURAL SECTIONS	ASTM A 500,	GRADE B
HOT-FORMED HOLLOW STRUCTURAL SECTIONS	ASTM A 501,	Fy=46,000 psi
STEEL PIPE	ASTM A 53,	TYPE E OR S
	GRADE B,	Fy=36,000 psi
- CONNECTOR MATERIALS:

BOLTS	ASTM F1852, TYPE 1, TENSION CONTROL HIGH STRENGTH BOLT-NUT-WASHER ASSEMBLY WITH HEX OR ROUND HEADS AND SPLINED ENDS.
WELDING ELECTRODES	COMPLY WITH AWS REQUIREMENT
UNHEADED ANCHOR RODS	ASTM F1554, GRADE 36, Fy=36,000 psi
- ALL CONNECTIONS SHALL BE HIGH-STRENGTH FRICTION BOLTS OR WELDS OF EQUAL STRENGTH.



- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
 - SPC-3 POWER TOOL CLEAN
 - (1) COAT RED OXIDE PRIME
 - (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS. (COLOR TBD BY SUSQUEHANNA SERVICES)
 - DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED)
FRACTIONAL $\pm 0.015625''$; ANGULAR $\pm .25''$.
 - DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 - ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.

TITLE: PUGMILL EQUIPMENT LAYOUT (TYPICAL CONFIGURATION)

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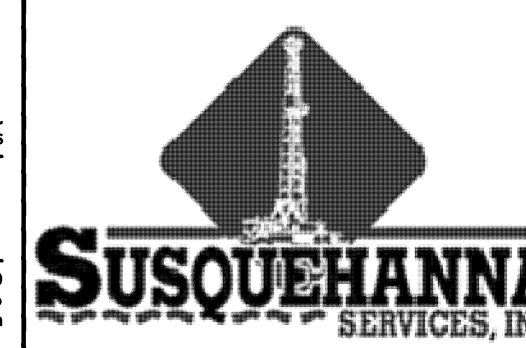
DATE:	January 28, 2014	DRAWN BY:	MJP	CHECKED BY:	EMH
JOB NUMBER:	B3450-A	APPROVED BY:	RJK	SHEET NO.:	001

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1 PUGMILL LAYOUT - PLAN VIEW

CS Scale: 1/2" = 1'- 0"

REVIEW SET 01-28-2014

REVISIONS:		
7	EMH	REVISION SET B - January 28, 2014
6	EMH	REVISION SET B - January 17, 2014
5	EMH	REVISION SET B - December 06, 2013
4	EMH	REVISION SET B - October 21, 2013
3	MJP	REVISION SET B - September 20, 2013
2	MJP	REVISION SET B - September 12, 2013
1	MJP	REVISION SET B - August 23, 2013

BILL OF MATERIALS						
SYSTEM	ITEM	QTY	SUP or FAB	COMPONENT	MANUFACTURER	DESCRIPTION
PORTABLE LIME SILO	100-001	2	FAB	C8 x 12'-0"		Channel Shape / Trailer Sides
PORTABLE LIME SILO	100-002	4	FAB	L6b6x3/8 x 12'-3" MOE 5.5'		Angle Shape / Silo Frame
PORTABLE LIME SILO	100-003A	8	FAB	L2x2x1/4 x 12'-9"		Angle Shape / Silo Diag.
PORTABLE LIME SILO	100-003A1	12	SUP	3/4" bolts, washers, nuts	(multiple)	Angle Brace Mounting Hardware
PORTABLE LIME SILO	100-003B	4	FAB	L2x2x1/4 x 7'-1"		Angle Shape / Silo Diag.
PORTABLE LIME SILO	100-004	4	FAB	L6b6x1/2 x 8'-2" MOE 45'		Angle Shape / Silo Base Frame
PORTABLE LIME SILO	100-005A	2	FAB	10 GA. MI PL x 320-1/2" x 72" L		Silo 1144" Dia.
PORTABLE LIME SILO	100-005B	2	FAB	3/16" MI PL x 320-1/2" x 72" L		Silo 1144" Dia.
PORTABLE LIME SILO	100-005C	1	FAB	3/16" MI PL x 320-1/2" to 31-1/2" x 81" L		Silo Cone 60" Taper 144" Dia. to 10" Dia.
PORTABLE LIME SILO	100-006	1	SUP	4" Fill Pipe	(multiple)	4" Schedule XX Steel Pipe x 34.51, (42' cut to length)
PORTABLE LIME SILO	100-006A	1	SUP	4" Camlock Adapter x 4" NPT Female	(multiple)	Camlock Fitting (Type A), 4" Male x 4" NPT Female Thread, Aluminum
PORTABLE LIME SILO	100-007	4	FAB	5 1/2"x14 x 18.36" Brace Plate		Angle Shape / Silo Trailer Frame Reinforcement Plate
PORTABLE LIME SILO	100-008	2	SUP	Heavy-Duty Axle w/ Brakes	Burnholder Mfg., Inc.	Dexler 7000 lb HD Straight Axle w/ Electric Brakes, 6 kg, EZ Lube 8-Bolt Pattern 10" Wheels & 265/75R16 Tires
PORTABLE LIME SILO	100-008A	1	SUP	Axle Hanger	Burnholder Mfg., Inc.	Tandem Axle Hanger Kit, for Slipper Springs
PORTABLE LIME SILO	100-008B	4	SUP	Leaf Spring	Burnholder Mfg., Inc.	28" 5-Ply Slipper-Style Leaf Spring
PORTABLE LIME SILO	100-008C	2	SUP	U-Bolt Kit, Round	N/A	U-Bolt Kit, 3" Round Axle
PORTABLE LIME SILO	100-008D	4	SUP	Tires, Wheels	Burnholder Mfg., Inc.	235-80-R16 Road Rider Radial Tires on Silver or White Wheel, LRE
PORTABLE LIME SILO	100-008E	1	SUP	AXLE Mounting hardware	(multiple)	AXLE Mounting hardware
PORTABLE LIME SILO	100-009	1	SUP	Rotary Valve Assembly	Robchok	10" Round Rotary Valve, Complete Assembly, 1 hp, 1800 rpm, 3-phase, 60 Hz, Sprockets for 22 rpm
PORTABLE LIME SILO	100-010	1	SUP	Rotary Valve Motor	Marathon Electric	General Purpose 3-Phase AC NEMA Motor (Cat # C220, Model #H43TFPS329) (see part to Rotary Valve Assembly)
PORTABLE LIME SILO	100-011	1	SUP	Blower	Ametek Rotron	4 hp, 3 ph 238-230 / 415-450v, 105 amps
PORTABLE LIME SILO	100-011A	1	SUP	Blower Air Filter	Suberg Manufacturing	4 hp, 3 ph 238-230 / 415-450v, 105 amps
PORTABLE LIME SILO	100-011D	1	SUP	Filter Cover	(Norm to advise)	(Norm to advise)
PORTABLE LIME SILO	100-011B	1	SUP	Pressure Relief Valve	Ametek Rotron	ROTRON Relief Valve, Mechanical (2" NPSG Female)
PORTABLE LIME SILO	100-011C	4	SUP	1/2" bolts, nuts, washers	(multiple)	Blower mounting hardware
PORTABLE LIME SILO	100-012	8	SUP	Air Pad	Monitor Technologies, LLC	Rectangular air pad, zinc-plated steel, cotton diffuser
PORTABLE LIME SILO	100-013	1	SUP	Pressure Relief Valve (???)	(Norm to advise)	(Norm to advise)
PORTABLE LIME SILO	100-014	1	SUP	Dust House	Beyrads Steel Tank Co.	10" VPC Pressure Relief Valve
PORTABLE LIME SILO	100-016	1	SUP	Top Fill Level Indicator	Monitor Technologies, LLC	Dust Collector, 225 sq ft, w/ Mating Flange, Electric Vb and Pop-Off Valve
PORTABLE LIME SILO	100-017	1	SUP	Silo Level Monitoring Display	Monitor Technologies, LLC	Silo Panel Unit
PORTABLE LIME SILO	100-018	1	FAB	Lime Screw Conveyor		HM2 / Mounted on Control House
PORTABLE LIME SILO	100-018A	1	SUP	Lime Screw Auger	Martin Sprocket & Gear, Inc.	77in x 7Pitch x 31HP, 1/4" Sectional Flight, Mounted on 27in Sch 40 Pipe, Bushed and 2-Bolt Drilled for 1-1/2" dia Shaft, 20' OAL
PORTABLE LIME SILO	100-018B	1	SUP	Conveyor Tube	Martin Sprocket & Gear, Inc.	Solid Tubular Trough, 8" Dia x 10 Ga. x 20' OAL
PORTABLE LIME SILO	100-018C	1	SUP	Conveyor Discharge Spout	Martin Sprocket & Gear, Inc.	10" dia Discharge Spout
PORTABLE LIME SILO	100-018D	2	SUP	End Plates	Martin Sprocket & Gear, Inc.	Trough End Plate w/ Flange (RGCHTE-BB-P)
PORTABLE LIME SILO	100-018E	2	SUP	End Flange Bearing	Martin Sprocket & Gear, Inc.	1-1/2" BB Flange Unit
PORTABLE LIME SILO	100-018F	1	SUP	1-1/2" End Shaft	Martin Sprocket & Gear, Inc.	(Norm to advise)
PORTABLE LIME SILO	100-018M	1	SUP	Waste Pack Seal	Martin Sprocket & Gear, Inc.	(part of kit of parts)
PORTABLE LIME SILO	100-018N	1	FAB	Conveyor Inlet Spout		1-1/2" Waste Pack Seal w/ Lip
PORTABLE LIME SILO	100-018P	1	FAB	PL 14"x24.50" x.50"		10" Dia. Round Inlet, Flanged, 8-Bolt Pattern
PORTABLE LIME SILO	100-018P1	8	SUP	Hardware		Motor Mounting Plate .50
PORTABLE LIME SILO	100-018R	1	FAB	PL 10"x14"x.50"		1/2" Bolts, (Grade 5) Lock Washers, Washers
PORTABLE LIME SILO	100-018R1	2	FAB	PL 1.3/16"x10"x.375		Motor Mounting Plate .50
PORTABLE LIME SILO	100-018R2	1	FAB	PL 3-1/2"x10"x.375		Motor Mounting Plate .375
PORTABLE LIME SILO	100-018R3	1	SUP	Hardware		Motor Mounting Plate .375
PORTABLE LIME SILO	100-018S	4	SUP	#60 18 Tooth Sprocket x 1-5/8" Bore	Martin Sprocket & Gear, Inc.	34"x16x1", (Grade 5) Flat Head Cap Bolt, Nuts, Washers, Lock Washers
PORTABLE LIME SILO	100-018T	1	SUP	#60 24 Tooth Sprocket x 1-1/2" Bore	Martin Sprocket & Gear, Inc.	#60 Drive Sprocket
PORTABLE LIME SILO	100-018U	5	SUP	#60 Chain		#60 Idler Sprocket
PORTABLE LIME SILO	100-018V	3	FAB	8 Ga. Angle Shape, Motor Guard		#60 Chain, 60"
PORTABLE LIME SILO	100-018V-1	3	SUP	Hardware		Angle Sheet Metal Shape, Motor Guard / Painted Yellow
PORTABLE LIME SILO	100-018W	1	FAB	10 Ga. Sheet Metal, Motor Guard		38" Bolts (Grade 5), Lock Washers, Washers
PORTABLE LIME SILO	100-018X	1	FAB	10 Ga. Sheet Metal, Motor Guard		Sheet Metal, Motor Guard / Painted Yellow
PORTABLE LIME SILO	100-018X-1	1	SUP	28" L. Piano Hinge		Sheet Metal, Motor Guard / Painted Yellow
PORTABLE LIME SILO	100-018X-2	2	SUP	Hardware		14 Ga., 1-1/2" (Lust, 3/16" Pin, 1" Knuckles
PORTABLE LIME SILO	100-018Y	1	FAB	10 Ga. Sheet Metal, Motor Guard		1/2" Bolts, (Grade 5) Lock Washers, Washers
PORTABLE LIME SILO	100-019	1	SUP	Electric Motor / Gear Reduction	Nord Gear Corp.	Sheet Metal, Motor Guard / Painted Yellow
PORTABLE LIME SILO	100-019A-1	2	FAB	L2x2x.25 x 13-3/4" Lg.		5 hp, 1800 rpm, 3 ph, TEFC, 9.80 Ratio (176 RPM)
PORTABLE LIME SILO	100-019A-2	2	FAB	L2x2x.25 x 12" Lg.		Angle Shape
PORTABLE LIME SILO	100-019A-3	4	SUP	Hardware		Angle Shape
PORTABLE LIME SILO	100-019B	2	FAB	L2x2x.25 x 30" Lg.		3/4" Bolts (Grade 5), Nuts, Lock Washers, Washers
PORTABLE LIME SILO	100-019C	2	FAB	L2x2x.25 x 13-1/2" Lg.		Angle Shape
PORTABLE LIME SILO	100-019D	4	FAB	PL 25		Frame Mounting Plates
PORTABLE LIME SILO	100-020	16	FAB	PL 25		Gusset Plate
PORTABLE LIME SILO	100-021	1	FAB	PL 188 - 5"x8"		Reinforcement Plate
PORTABLE LIME SILO	100-022	1	FAB	PL 5		Hitch Mount Plate
PORTABLE LIME SILO	100-022A	1	SUP	Bot-On Pinle Ring	(multiple)	Rigid Mount Pinle Ring (Lunette Ring), 3/10" x 4-1/2" sq bolt pattern
PORTABLE LIME SILO	100-022B	4	SUP	Hitch Mounting hardware	(multiple)	7/8" Bolts (Grade 8), Washers, Nuts
PORTABLE LIME SILO	100-022C	1	SUP	Trailer Jack	(multiple)	Trailer Jack (Norm to advise details)
PORTABLE LIME SILO	100-023	2	FAB	PL 25		Trailer Gusset
PORTABLE LIME SILO	100-024	2	FAB	PL 188		Hitch Gusset
PORTABLE LIME SILO	100-025	2	FAB	PL 188		Gusset Plate
PORTABLE LIME SILO	100-026	4	FAB	PL 25		Gusset Plate
PORTABLE LIME SILO	100-027	2	FAB	Bracket		Screw Conveyor Hold-Down Bracket
PORTABLE LIME SILO	100-027A	2	SUP	10" U-Bolt, Round	(multiple)	10" U-Bolt, Round (Norm to advise thread size & pitch)
PORTABLE LIME SILO	100-027B	2	SUP	U-Bolt Hardware	(multiple)	U-Bolt Hardware (Norm to advise)
PORTABLE LIME SILO	100-028	2	FAB	PL 188		Fender
PORTABLE LIME SILO	100-029	2	FAB	PL 375		R/V Flange
PORTABLE LIME SILO	100-029A	1	SUP	Mounting Hardware, RVF-to-Jamgate	(multiple)	Mounting Hardware, RVF-to-Jamgate
PORTABLE LIME SILO	100-030	1	FAB	PL 375		Special Flange
PORTABLE LIME SILO	100-031	2	FAB	PL 75		Lifting Lugs
PORTABLE LIME SILO	100-032	6	FAB	PL 25		Pipe Saddle
PORTABLE LIME SILO	100-033	1	FAB	Emergency Jamgate		100-033A-100-033D
PORTABLE LIME SILO	100-033A	1	FAB	PL 19.50" Sq. x.375		Flange Upper
PORTABLE LIME SILO	100-033B	1	FAB	PL 19.50" Sq. x.375		Flange Lower
PORTABLE LIME SILO	100-033C	1	FAB	PL 19.50" Sq. x.313		Spacer
PORTABLE LIME SILO	100-033D	1	FAB	PL 15.75x.25 x 19.5" Lg.		Jamgate
PORTABLE LIME SILO	100-033E	1	SUP	Assembly Hardware, Jamgate	(multiple)	Assembly Hardware, Jamgate
PORTABLE LIME SILO	100-034	1	FAB	2" Sch. 40 Pipe x 12" w/ Mnt Tabs	(multiple)	2" Sch. 40 Pipe Manifold x 12" w/ Mnt Tabs
PORTABLE LIME SILO	100-034A	1	SUP	Blower-to-Manifold Flex Hose	(multiple)	2" Flex Hose x 48", (see ANDY for more info on specs)
PORTABLE LIME SILO	100-034B	2	SUP	2-1/2" Hose Clamp	(multiple)	Clamps for 2" Hose Ends
PORTABLE LIME SILO	100-034C	1	SUP	2" x 1-1/2" Manifold Bushing	(multiple)	2" x 1-1/2" Manifold Bushing (Andy to advise)
PORTABLE LIME SILO	100-034D	8	SUP	Manifold Push-to-Connect Fittings	(multiple)	Push-to-Connect Fitting, 3/8" NPT x 3/8" Tube
PORTABLE LIME SILO	100-034E	40	SUP	Tubing to Air Pads	(multiple)	3/8" OD Tube
PORTABLE LIME SILO	100-034F	2	SUP	Manifold Plug	(multiple)	3/8" NPT Plug
PORTABLE LIME SILO	100-034G	8	SUP	Manifold SharkBite Elbow	(multiple)	Push-to-Connect Elbow, 1/8" NPT Female x 3/8" Tube
PORTABLE LIME SILO	100-034H	8	SUP	Manifold SharkBite Straight	(multiple)	Push-to-Connect Adapter, 3/8" NPT Male x 3/8" Tube
PORTABLE LIME SILO	100-034J	1	SUP	1-1/2" x 8" Rubber Air Hose	(Andy to advise)	1-1/2" x 8" Rubber Air Hose (Andy to advise)
PORTABLE LIME SILO	100-035	1	FAB	PL 375		Blower Mounting Plate
PORTABLE LIME SILO	100-036	1	SUP	Manhole Hatch	Enardo	Thief Hatch, 18" (???) SER 660 P-2 OZ V-0.4 Alum Buns
PORTABLE LIME SILO	100-037	1	SUP	(Norm to advise)	(Norm to advise)	7-Wire electrical connector (to tow vehicle)
PORTABLE LIME SILO	100-037A	8	FAB	PL 375		Gusset Plate
PORTABLE LIME SILO	100-038	2	SUP	Safety Chain (3ft length)	(multiple)	Safety Chain, 5/16" x 36"
PORTABLE LIME SILO	100-039	2	SUP	Safety Hook	(multiple)	Safety Hook, 5/16" Clevis w/ Latch
PORTABLE LIME SILO	100-040	1	SUP	(Norm to advise)	(Norm to advise)	4-wire elec. conn w/ Flange Bracket (to light bar)
PORTABLE LIME SILO	100-041	2	SUP	Silo conduit coupling, 1/2"	(multiple)	1/2" conduit coupling
PORTABLE LIME SILO	100-042	2	SUP	Silo conduit coupling, 1"	(multiple)	1" conduit coupling
PORTABLE LIME SILO	100-043	1	SUP	Silo Ladder and Safety Fall Protection	(multiple)	536" Alum. Ladder with Integrated Fall Protection
PORTABLE LIME SILO	100-044	1	SUP	Silo Safety Railing		1-1/2" Std Tubing / Radius to Tank for Safety Railing (2 Rings) with 10 Uprights
PORTABLE LIME SILO	100-045	1	SUP	3/8" Chain x 20 Ft. (Welded Loops)		Cut Chain to Length and Link to Make a "Y" at Tank Anchor Points
PORTABLE LIME SILO	100-045A	1	SUP	3/8" Connector Link		Connector Link for "Y"
PORTABLE LIME SILO	100-045B	3	SUP	3/8" Screw Pin Shackles		Connect Chain to Tank & Conveyor Tube
PORTABLE LIME SILO	100-046	3	SUP	3/8" Rnd Bar Tabs		Shape Chain Tabs to be Welded onto Tank and Conveyor Tube
MATERIAL HOPPER	200-001A	1	SUP	Electric Motor / Gear Reduction	Nord Gear Corp.	15 hp, 1800 rpm, 3 ph, TEFC, 78.81 Ratio (M1), 3-7/16" Shaft

MATERIAL HOPPER	200-001B	1	SUP	Electric Motor / Gear Reduction	Nord Gear Corp.	15 hp, 1800 rpm, 3 ph, TEFC, 78.81 Ratio (M3), 3-7/16" Shaft	see MANUFACTURER
MATERIAL HOPPER	200-001C	2	SUP	Mounting Hardware, Hopper Screw Motor	(multiple)	Mounting Hardware, Hopper Screw Motor	SK 9042-1 SCP-132 S4 CUS
MATERIAL HOPPER	200-002	1	SUP	Electric Motor / Gear Reduction	Nord Gear Corp.	7.5 hp, 1800 rpm, 3 ph, TEFC, 40.54 Ratio (RIGHT Angle Output) 3-7/16" Shft	see MANUFACTURER
MATERIAL HOPPER	200-002A	1	SUP	Mounting Hardware, Cross-Screw Motor	(multiple)	Mounting Hardware, Cross-Screw Motor	
MATERIAL HOPPER	200-003	8	FAB	TS 4x4x.25 x 78.52" Lg.		Tube Shape / Large Diag.	
MATERIAL HOPPER	200-003A	2	FAB	TS 4x4x.25 x 78.52" Lg.		Tube Shape / Large Diag. Clipped End	
MATERIAL HOPPER	200-004	4	FAB	TS 4x4x.25 x 24.97" Lg.		Tube Shape / Short Diag.	
MATERIAL HOPPER	200-005	13	FAB	TS 4x4x.25 x 54" Lg.		Tube Shape / Upright	
MATERIAL HOPPER	200-006	2	FAB	WBx31 x 475" Lg.		Frame Base	
MATERIAL HOPPER	200-007	2	FAB	TS 4x4x.25 x 435" Lg.		Tube Shape / Top Tube	
MATERIAL HOPPER	200-008	2	FAB	TS 4x4x.25 x 23" Lg.		Tube Shape / Idler End Frame	
MATERIAL HOPPER	200-009	2	FAB	TS 4x4x.25 x 14" Lg.		Tube Shape / Idler End Frame	
MATERIAL HOPPER	200-010	2	FAB	TS 4x4x.25 x 26.31" Lg.		Tube Shape / Split Long Diag.	
MATERIAL HOPPER	200-011	2	FAB	TS 4x4x.25 x 49.70" Lg.		Tube Shape / Split Long Diag.	
MATERIAL HOPPER	200-012	3	FAB	TS 4x4x.25 x 84" Lg.		Tube Shape / Hopper Bottom Support	200-013A to 200-013C
MATERIAL HOPPER	200-013		SUP			Dyne Flo 2000 Linner Sheet	NA
MATERIAL HOPPER	200-013A	6	SUP	Hopper Liner	Mentor Dynamics	Dyne Flo 2000, 38" T, 5" W x 120", Pre-drilled	NA
MATERIAL HOPPER	200-013B	264	SUP	Hold-Down Buttons	Mentor Dynamics	Hold-Down Buttons	NA
MATERIAL HOPPER	200-013C	264	SUP	Hold-Down Studs	Mentor Dynamics	Hold-Down Studs	200-014-1 to 200-014-4
MATERIAL HOPPER	200-014	1	FAB	Screw Hold Down			
MATERIAL HOPPER	200-014.1	2	FAB	PL 1x2 x 55.69" Lg.			
MATERIAL HOPPER	200-014.2	2	FAB	PL 1x2 x 100.00" Lg.			
MATERIAL HOPPER	200-014.3	4	FAB	PL 6x.25 x 6" Lg.			
MATERIAL HOPPER	200-014.4	4	FAB	PL 3x.25 x 6" Lg.			
MATERIAL HOPPER	200-014.5	4	FAB	PL 2x.375x 4.5" Lg.			see MANUFACTURER
MATERIAL HOPPER	200-014.6	4	SUP	1/2"-13 x YY Bolt	(multiple)	Mounting Hardware, Tie-Down	see MANUFACTURER
MATERIAL HOPPER	200-014.7	4	SUP	1/2" nuts, washers	(multiple)	Mounting Hardware, Tie-Down	
MATERIAL HOPPER	200-015	2	SUP	Hopper Auger	Martin Sprocket & Gear, Inc.	12" Dia. x Variable Pitch x 38" T. Flights, Sectional Flights, Mounted on 5" (Pipe Size) Sch. 80 Pipe, Bushed and 2-Bolt Drilled (CEMA Std.) for 3-7/16" Dia. Drive Shaft, Std. Weld, 357-107 OAL, 175" 6" Pitch, 168" x 8" Pitch, Tail End 14.5" Bare Pipe with 3-7/16" Dia. Bushed and 2-Bolt Drilled as Shown	
MATERIAL HOPPER	200-016	6	FAB	PL 4x4x.25		End Filler Plate	
MATERIAL HOPPER	200-017	16	FAB	TS 2x2x.25 x 46.39" Lg.		Tube Shape / Hopper Side Support	
MATERIAL HOPPER	200-018	14	FAB	TS 4x4x.25 x 23.80" Lg.		Tube Shape / Diag. Hopper Support	
MATERIAL HOPPER	200-019	1	SUP	Cross-Screw Auger	Martin Sprocket & Gear, Inc.	12" Dia. x 12" Pitch x 127" T. Flights, Mounted on 5" (Pipe Size) Sch. 80 Pipe, Bushed and 2-Bolt Drilled (CEMA Std.) for 3-7/16" Dia. Shaft, Std. Weld, 68-1/2" OAL	
MATERIAL HOPPER	200-020	2	FAB	WBx31 x 88" Lg.		Wide Flange / Cross Support	
MATERIAL HOPPER	200-021	2	FAB	TS 4x4x.25 x 33.46" Lg.		Tube Shape / Diag.	
MATERIAL HOPPER	200-022	7	FAB	TS 4x4x.25 x 87.72" Lg.		Tube Shape / WBx31 Frame Cross Member	
MATERIAL HOPPER	200-023	4	FAB	TS 4x4x.25 x 104.53" Lg.		Tube Shape / WBx31 Dia. Cross Member	
MATERIAL HOPPER	200-023A	1	FAB	TS 4x4x.25 x 103.38" Lg.		Tube Shape / WBx31 Dia. Cross Member (Shortened at Drive End)	
MATERIAL HOPPER	200-024	1	FAB	PL 375		Idler Side End Plate	
MATERIAL HOPPER	200-024A	2	FAB	PL 375x16.375 x 16.375" Lg.		Removable Plug(s)	
MATERIAL HOPPER	200-024B	2	FAB	PL 375x12.875x12.875		Filler Plate	
MATERIAL HOPPER	200-025	2	FAB	X38 x 88" Lg.		Flare Shape / Push Pipe	
MATERIAL HOPPER	200-026	4	FAB	PL 3"		End Cover on Pipe	
MATERIAL HOPPER	200-027	2	FAB	WBx31 x 15.88" Lg.		Wide Flange / Mid. Flare	
MATERIAL HOPPER	200-028	2	FAB	PL 25x30 x 348" Lg.		Bent Crank Plate (2 Halves)	
MATERIAL HOPPER	200-029	4	FAB	PL 75x6 x 11" Lg.		Lifting Lug	
MATERIAL HOPPER	200-030	1	FAB	PL 75		Trough Cover	
MATERIAL HOPPER	200-031	1	FAB	PL 25x16.75 x 37.41 Lg.		Hopper Connection Plate	12TFS7
MATERIAL HOPPER	200-032	1	FAB	Feeder Straddle / Modified Cross-Screw Trough	Martin Sprocket & Gear, Inc.	Modified Feeder Straddle for Screw Hold Down	12CTA3-48
MATERIAL HOPPER	200-032A		SUP (bbl)		Martin Sprocket & Gear, Inc.	12" Dia, 11" Pitch x 127" L. Flights, Mounted on 5" (Pipe Size) Sch. 80 Pipe, Bushed and 2-Bolt Drilled (CEMA Std.) for 3-7/16" Dia. Drive Shaft, Std. Weld, 357-107 OAL, 175" 6" Pitch, 168" x 8" Pitch, Tail End 14.5" Bare Pipe with 3-7/16" Dia. Bushed and 2-Bolt Drilled as Shown	12TES
MATERIAL HOPPER	200-032B	1	SUP (bbl)		Martin Sprocket & Gear, Inc.	12" Dia, 11" Pitch x 127" L. Flights, Mounted on 5" (Pipe Size) Sch. 80 Pipe, Bushed and 2-Bolt Drilled (CEMA Std.) for 3-7/16" Dia. Drive Shaft, Std. Weld, 357-107 OAL, 175" 6" Pitch, 168" x 8" Pitch, Tail End 14.5" Bare Pipe with 3-7/16" Dia. Bushed and 2-Bolt Drilled as Shown	12TES
MATERIAL HOPPER	200-032C	1	SUP	Mtg. Hardware, Trough-to-Trough End	(multiple)	Mounting Hardware, Trough-to-Trough End	see MANUFACTURER
MATERIAL HOPPER	200-032D	1	SUP	Mtg. Hardware, Packing-4-to-Trough End	(multiple)	Mounting Hardware, Packing-4-to-Trough End	see MANUFACTURER
MATERIAL HOPPER	200-033	1	FAB	Ga. Metal Bent Plate		Motor Cover / Painted Yellow	see MANUFACTURER
MATERIAL HOPPER	200-033A	1	SUP	Mtg. Hardware, Motor Cover-to-Frame	(multiple)	Mounting Hardware, Motor Cover-to-Frame	200-034-1 to 200-034-4
MATERIAL HOPPER	200-034	2	FAB	Custom Packing Housing		3-7/16" Dia. Shaft / Packing	
MATERIAL HOPPER	200-034-1	1	FAB	PL 75 x 8.00 Sq.		Bearing Plate	
MATERIAL HOPPER	200-034-2	1	FAB	2.44" Dia. x 19.5" Lg.		Steel Bar	see MANUFACTURER
MATERIAL HOPPER	200-034-3	1	SUP	25 Grease Nipple	(multiple)	Grease Nipple	
MATERIAL HOPPER	200-034-4	4	FAB	PL 50		Outlet Plates	
MATERIAL HOPPER	200-034B	2	FAB	3.44 Dia. x 13.13" SAE 660 Bronze		SAE 660 Bronze Bearing	see MANUFACTURER
MATERIAL HOPPER	200-034C	16	SUP	Bearing/Shaft Centering Screw	(multiple)	3/4" YY Set Screw	
MATERIAL HOPPER	200-034D	4	FAB	Pack Housing Bushing		Bushing, Steel, 4.8000" x 3.450" x 2.0"	see MANUFACTURER
MATERIAL HOPPER	200-034D	16	SUP	Bearing Centering Screws	(multiple)	1/2" YY Set Screw, Cone Point	see MANUFACTURER
MATERIAL HOPPER	200-034E	8	SUP	Mounting Hardware, Packing Housing	(multiple)	3/4" YY x 2.25" bolts	see MANUFACTURER
MATERIAL HOPPER	200-034F	8	SUP	Mounting Hardware, Packing Housing	(multiple)	3/4" nuts, washers	see MANUFACTURER
MATERIAL HOPPER	200-034G	24	SUP	Studs, Bearing Mounting	(multiple)	1/2" 13 x 1.675"	see MANUFACTURER
MATERIAL HOPPER	200-034H	24	SUP	Mounting Hardware, Bearing Mounting	(multiple)	1/2" nuts, washers	see MANUFACTURER
MATERIAL HOPPER	200-035	1	FAB	PL 5x12 x 84" Lg.		Motor End Plate	
MATERIAL HOPPER	200-036	2	FAB	L2x2x.25 x 11" Lg.		Angle Shape / Motor Cover Support	
MATERIAL HOPPER	200-037	1	FAB	L2x2x.25 x 33" Lg.		Angle Shape / Motor Cover Support	
MATERIAL HOPPER	200-038	1	FAB	Ga Metal Bent Plate		Motor Cover / Painted Yellow	see MANUFACTURER
MATERIAL HOPPER	200-038A	1	SUP	Mounting Hardware, Motor Cover	(multiple)	Mounting Hardware, Motor Cover	
MATERIAL HOPPER	200-039	2	FAB	TS 4x4x.25 x 54" Lg.		Tube Shape / Indirect Support Upright	
MATERIAL HOPPER	200-040	1	FAB	TS 4x4x.25 x 54" Lg.		Tube Shape / Indirect Support Upright	
MATERIAL HOPPER	200-041	6	FAB	PL 375		Mounting Pin	
MATERIAL HOPPER	200-042	4	FAB	L 4x2x.5		Angle Shape / Mill Alignment	
MATERIAL HOPPER	200-043	1	FAB	3" Steel Coupler		3" Threaded Steel Coupler Pipe w/ Flange Both Ends	
MATERIAL HOPPER	200-044	2	FAB	L 1.5x1.5x 25 x 381" Lg.		Angle Shape	
MATERIAL HOPPER	200-044A	1	FAB	L 3x3x.25 x 381" Lg.		Angle Shape	22-H-1-14x2016
MATERIAL HOPPER	200-045	10	SUP	Bar Grating 1-1/4" x 3-1/8" x 83"L	(Norm to advise)	Metal Bar Grating, Type 194	see MANUFACTURER
MATERIAL HOPPER	200-044A	27	SUP	M-Type Hold-Down Clip	(multiple)	Metal H43 Down Clip (size)	see MANUFACTURER
MATERIAL HOPPER	200-045B	6	SUP	J-Type Hold-Down Clip	(multiple)	Metal H43 Down Clip (size)	see MANUFACTURER
MATERIAL HOPPER	200-045C	1	SUP	Mounting Hardware, Grating Hold-Down		Mounting Hardware, Grating Hold-Down	10T-1213SR
MATERIAL HOPPER	200-046	1	SUP	Rubber Coupling (in hose damp)	Fernco	12" ETx 1" DI	SK 6382 AZ 8-180 MM (M1)
INCLINE SCREW	300-001	1	SUP	Electric Motor / Gear Reduction	Nord Gear Corp.	15 hp, 1800 rpm, 3 ph, TEFC, 69.66 Ratio (M1), 2-7/16" Input Shaft	see MANUFACTURER
INCLINE SCREW	300-011	1	SUP	Mtg Hardware, Indirect Conveyor Motor	(multiple)	Mounting Hardware, Indirect Conveyor Motor	
INCLINE SCREW	300-01B	1	FAB	Key for Motor		Key 5/8" x 3/4" x 7.34" Lg.	CUSTOM
INCLINE SCREW	300-002	1	SUP	Incline Screw Auger	Martin Sprocket & Gear, Inc.	16" Dia. x 11" Pitch x 127" T. Flights, Sectional Flight Mounted on 4" Sch. 40 Pipe, Bushed and 3-Bolt (2532") Drilled for 3" Dia. Shaft, Std. Weld, 35.25" OAL, 6" Drive Pipe on Drive/Discharge End (Screw length to be 3 equal length screws (141") W/ 3" Dia. close-coupled (CCO) and locked together, bolts and shafts included. CO of screw to have 1/2" W/ 1" Flange Express Impression) included on entire length of screw) 3-7/16" Dia. Bushed Idler End and 8-Bolt Drilled as Shown	
INCLINE SCREW	300-002A	1	FAB	2-7/16" x 28" Drive Shaft		Precision Shafting, Hot Rolled Bar (1045 Steel)	CCOC
INCLINE SCREW	300-002B	2	SUP	Screw Coupler	Martin Sprocket & Gear, Inc.	3" x 10" Screw Coupler Shaft	
INCLINE SCREW	300-003	3	SUP	Drive Coupler Bolts		Grade 8 - 3/4" Bolts & Locking Nuts (300-002A Shaft)	
INCLINE SCREW	300-002D	8	SUP	Shaft Coupler Bolts		Grade 8 - 3/4" Bolts & Locking Nuts (300-002B / CCOC Coupler)	
INCLINE SCREW	300-004	1	FAB	Mounting Flange			
INCLINE SCREW	300-005	1	FAB				
INCLINE SCREW	300-006	1	FAB	PL 375 x 22.50" Dia.		Idler End Plate, Conveyor Tube	see MANUFACTURER
INCLINE SCREW	300-005A		SUP	Mtg Hardware, Idler Bearing-to-End Pl.	(multiple)	Mounting Hardware, Idler Bearing-to-End Plate	
INCLINE SCREW	300-006	6	FAB	PL 25 x 22.50" Dia.		Pipe Flange Plate	see MANUFACTURER
INCLINE SCREW	300-006A	36	SUP	Mounting Hardware, Tube Flange	(multiple)	3/4" YY x 2.25" bolts	see MANUFACTURER
INCLINE SCREW	300-006B	36	SUP	Mounting Hardware, Tube Flange	(multiple)	3/4" nuts, washers	
INCLINE SCREW	300-007	3	FAB	PL 375x2.13 x 3.00" Lg.		Mounting Lug Plate	
INCLINE SCREW	300-008	4	FAB	PL 25		Tabs	
INCLINE SCREW	300-009	1	FAB	3.44 Dia. x 13.13" SAE 660 Bronze		SAE 660 Bronze Bearing	
INCLINE SCREW	300-010	1	FAB	5 Rod Bar w/ 3/4"-49 Raised Exp.Mt.		Incline Strip w/ Raised Expanded Metal Treat	see MANUFACTURER

INCLINE SCREW	300-011	8	SUP	Bearing/Shaft Centering Screw	(multiple)	3/4"-YY Set Screw	
INCLINE SCREW	300-012	2	FAB	Pack Housing Bushing		Bushing, Steel, 4.8700 x 3.4570 x 2.0"	
INCLINE SCREW	300-101	1	FAB	18"dia x 14"1" x 42"L		Sch. 10 Pipe (25 Wall Thickness)	
INCLINE SCREW	300-102	1	FAB	14"dia x 14"1" x 12"L		Sch. 10 Pipe (25 Wall Thickness)	
INCLINE SCREW	300-102A	1	FAB	3" Sch 40 Pipe x 4"		3" Sch 40 Pipe w/ Cap	
INCLINE SCREW	300-103	1	FAB	PL .25		Bent Plate Saddle	
INCLINE SCREW	300-103A	2	FAB	PL .375		Angle Plate	
INCLINE SCREW	300-103B	2	FAB	PL .375		Lag Plate	
INCLINE SCREW	300-103C	1	FAB	PL .0625 x 1.25"		Steel Banding	40-1292LB
INCLINE SCREW	300-103D	1	FAB	Adj. Toggle Clamp	ProTex	Weld on Adjustable Toggle Clamp	44-663LB
INCLINE SCREW	300-103E	1	FAB	Toggle Catch Plate	ProTex	Weld on Toggle Catch Plate	
INCLINE SCREW	300-103F	4	FAB	5/16" Rivets		Attach Banding to Metal Support Plate	
INCLINE SCREW	300-201	1	FAB	18"dia x 14"1" x 336"L		Sch. 10 Pipe (25 Wall Thickness)	
INCLINE SCREW	300-202	1	FAB	3/8" x 20" x 120deg x 84.0"		Wear plate	
INCLINE SCREW	300-203	1	FAB	3/8" x 20" x 120deg x 120.0"		Wear plate	
INCLINE SCREW	300-204	1	FAB	3/8" x 20" x 120deg x 48.0"		Wear plate	
INCLINE SCREW	300-210	2	FAB	PL .25		14"x10.71" Bent Plate	
INCLINE SCREW	300-211	4	FAB	PL .375		Sides for Access Port	
INCLINE SCREW	300-212	2	FAB	SQ. ROD .25		Access Port Slope 6" Lg.	
INCLINE SCREW	300-301	1	FAB	18"dia x 14"1" x 48"L		Sch. 10 Pipe (25 Wall Thickness)	
INCLINE SCREW	300-302	1	FAB	16"dia x 14"1" x 20"L		Sch. 10 Discharge Pipe (25 Wall Thickness)	
INCLINE SCREW	300-303	1	FAB	Ga Mill PL 22"x22"		Ga Metal Plate with 16"0 Opening	300-401 to 300-403
INCLINE SCREW	300-400		FAB	Tube End / Motor Mount			
INCLINE SCREW	300-401	6	FAB	L2x2x.25 x 6.00" Lg.		Angle Shape	
INCLINE SCREW	300-402A	1	FAB	PL .25x6.5 x 21.16" Lg.		Plate	
INCLINE SCREW	300-402B	1	FAB	PL .25x6.5 x 21.16" Lg.		Plate	
INCLINE SCREW	300-403	1	FAB	PL .50x22x22.41" Lg.		End Plate, Motor, Conveyor Tube	
INCLINE SCREW	300-404	1	FAB	PL .50x16x22.16" Lg.		Plate	see MANUFACTURER
INCLINE SCREW	300-405		SUP	Mntg Hardware, Packing-to-Conveyor	(multiple)	3/4" bolts, nuts, washers	see MANUFACTURER
INCLINE SCREW	300-406		SUP	Mntg Hardware, Motor-to-Motor End Pl	(multiple)	Mounting Hardware, Motor-to-Motor End Plate	300-501 to 300-506
INCLINE SCREW	300-500		FAB	Drive Shaft Cage			
INCLINE SCREW	300-501	4	FAB	L2x2x.25 x 36.00" Lg.		Angle Shape	
INCLINE SCREW	300-502	2	FAB	L2x2x.25 x 28.00" Lg.		Angle Shape	
INCLINE SCREW	300-503	1	FAB	L2x2x.25 x 28.00" Lg.		Angle Shape	
INCLINE SCREW	300-504	1	FAB	L2x2x.25 x 28.00" Lg.		Angle Shape	
INCLINE SCREW	300-505	3	FAB	L2x2x.25 x 27.00" Lg.		Angle Shape	see MANUFACTURER
INCLINE SCREW	300-507	6	SUP	Mntg Hardware, Cage-to-Motor Mount	(multiple)	Mounting Hardware, Cage-to-Motor Mount	300-601 to 300-605
INCLINE SCREW			FAB	Incline Support Members			
INCLINE SCREW	300-601	1	FAB	Incline Screw - Hopper Mount		Lower Mount	
INCLINE SCREW	300-602	1	FAB	Incline Screw - Hopper Mount		Mid Mount	
INCLINE SCREW	300-603	1	FAB	Incline Screw - Hopper Mount		Upper Mount	
INCLINE SCREW	300-604	4	FAB	PL .375x48" Lg.		Clip Attachment Plate	
INCLINE SCREW	300-605	2	FAB	TS 4x4x.25 x 24" Lg.		Support Arm	
INCLINE SCREW	300-606	1	FAB	TS 4x4x.25 x 19.94" Lg.		Support Upright for Post #1	
INCLINE SCREW	300-607	1	FAB	TS 4x4x.25 x 19.80" Lg.		Support Diagonal	
INCLINE SCREW	300-608	1	FAB	TS 4x4x.25 x 52.63" Lg.		Support Upright for Post #2	
INCLINE SCREW	300-609	1	FAB	TS 4x4x.25 x 54.09" Lg.		Support Diagonal	
INCLINE SCREW	300-610	1	FAB	TS 4x4x.25 x 63.32" Lg.		Support Upright for Post #3	
INCLINE SCREW	300-611	6	FAB	Hopper Motor Locking Pin		0.75"dia x 6" L Locking Pin	see MANUFACTURER
INCLINE SCREW	300-611A	4	SUP	Locking pin cotter pin	(multiple)	Harpin Cotter Pin, fits 3/4" Shaft (wire diameter???)	
INCLINE SCREW	300-612	2	FAB	PL .25x11.11 x 24" Lg.		Support Saddle	
INCLINE SCREW	300-612A	8	FAB	PL .25		Gusset Plate	
INCLINE SCREW	300-612B	2	FAB	PL .0625 x 1.25"		Steel Banding	40-1292LB
INCLINE SCREW	300-612C	2	FAB	Adj. Toggle Clamp	ProTex	Weld on Adjustable Toggle Clamp	44-663LB
INCLINE SCREW	300-612D	2	FAB	Toggle Catch Plate	ProTex	Weld on Toggle Catch Plate	
INCLINE SCREW	300-612E	8	FAB	5/16" Rivets		Attach Banding to Metal Support Plate	
INCLINE SCREW	300-613	1	FAB	PL .375 x 24" Lg.		Support Saddle for Support #3	
INCLINE SCREW	300-613A	2	FAB	PL .375 x 4.375" Lg.		Base Plate	see MANUFACTURER
INCLINE SCREW	300-614	6	SUP	3/4" bolts, washers, nuts	(multiple)	Mounting Hardware, Saddle-to-Support	300-701 to 300-709
INCLINE SCREW			FAB	Handrail Members			
INCLINE SCREW	300-700	1	SUP	L2GAx16.75" B Diamond Plank (83012)		10 PL Lg.	
INCLINE SCREW	300-701	1	FAB	Long Handrail		107.67" Lg.	
INCLINE SCREW	300-702	1	FAB	Short Handrail		16.50" Lg.	
INCLINE SCREW	300-703	5	FAB	TS 2.5x2.5x.174 x 1" Lg.		Post Insert	
INCLINE SCREW	300-703A	5	FAB	PL .25		Bottoms of Post Inserts	
INCLINE SCREW	300-703B	1	FAB	PL .25		Gusset Plate	
INCLINE SCREW	300-704	3	FAB	TS 2x2x.174 x 41.41" Lg.		Post	
INCLINE SCREW	300-705	2	FAB	TS 2x2x.174 x 55.76" Lg.		Mid Rail	
INCLINE SCREW	300-706	1	FAB	TS 2x2x.174 x 117.17" Lg.		Top Rail	
INCLINE SCREW	300-707	2	FAB	TS 2x2x.174 x 40.86" Lg.		Post	
INCLINE SCREW	300-708	1	FAB	TS 2x2x.174 x 20.50" Lg.		Top Rail	
INCLINE SCREW	300-709	1	FAB	TS 2x2x.174 x 16.50" Lg.		Mid Rail	
INCLINE SCREW	300-710	5	FAB	PL .375		Platform Support Plates	
CONTROL HOUSE	400-001	1	SUP	Control Panels	SCE: Saginaw Control	NEMA 4 Panels	SCE-60EL3612LP
CONTROL HOUSE		1	SUP	Control Panels	SCE: Saginaw Control	NEMA 4 Panels w/Disconnect	SCE-60H53712LP
CONTROL HOUSE		1	SUP	Circuit Breaker	Square D	Square D	LAL36250
CONTROL HOUSE		1	SUP	Overload Safety Relay	Square D	Phase Loss Over Under Voltage	RM17TE00
CONTROL HOUSE		1	SUP	Circuit Breaker	Square D	Circuit Breaker 30A (Cross Screw)	FAL34030
CONTROL HOUSE		2	SUP	Circuit Breaker	Square D	Circuit Breaker 15A (Nove and 3 line XFMRs)	FAL24015
CONTROL HOUSE		5	SUP	Circuit Breaker	Square D	Circuit Breaker 50A (Pugmills, Sludge Screws, Incline)	FAL34050
CONTROL HOUSE		1	SUP	Circuit Breaker	Square D	Circuit Breaker 20A (Agitator)	FAL34020
CONTROL HOUSE		5	SUP	Circuit Breaker	Square D	Circuit Breaker 15A (Shakers 1&2, 3, Blower, Line Screw, Rotary Feeder)	FAL34015
CONTROL HOUSE	400-002	6	SUP	Starter	Square D	Motor Starter (Blower, Line Screw, Hopper, 2,3, Agitator)	LC1D08G7
CONTROL HOUSE	400-003	2	SUP	Starter	Square D	Motor Starter (Pugmill Left and Right)	LC1D2G67
CONTROL HOUSE		1	SUP	Starter	Square D	Motor Starter (Rotary Vane Feeder VFD)	LC1D08G7
CONTROL HOUSE		1	SUP	Starter	Square D	Motor Starter (Cross Screw VFD)	LC1D18G7
CONTROL HOUSE		3	SUP	Starter	Square D	Motor Starter (Incline, Left Sludge, Right Sludge VFD)	LC1D32G7
CONTROL HOUSE	400-006	5	SUP	Overload Relay	Square D	Motor Overload Relay	LRD12
CONTROL HOUSE	400-005	1	SUP	Overload Relay	Square D	Motor Overload Relay	LRD21
CONTROL HOUSE	400-004	2	SUP	Overload Relay	Square D	Motor Overload Relay	LRD22
CONTROL HOUSE	400-007	1	SUP	VFD	Fuji	Variable Frequency Drive 7.5hp (Cross Screw)	FRN007G1S-4U
CONTROL HOUSE	400-008	3	SUP	VFD	Fuji	Variable Frequency Drive 15Hp (Incline, Left Sludge, Right Sludge)	FRN022G1S-4U
CONTROL HOUSE	400-009	1	SUP	VFD	Fuji	Variable Frequency Drive 2Hp (Rotary Vane Feeder)	FRN002G1S-4U
CONTROL HOUSE		1	SUP	E Stop Switch	Square D	Main Stop	9001SG08P1RH13
CONTROL HOUSE		13	SUP	On-Off Switch	Square D	Power On Off	9001KS11BH13
CONTROL HOUSE		5	SUP	For-Rev Switch	Square D	VFD Direction	9001KS11BH13
CONTROL HOUSE		5	SUP	Potentiometer	Square D	VFD Speed Control	9001K2105
CONTROL HOUSE		8	SUP	Pilot Light	Square D	120 VAC Indicator Lights	9001KPHR13
CONTROL HOUSE		1	SUP	Start Switch	Square D	Main On	9001KR1GH5
CONTROL HOUSE		1	SUP	1 Kva XFMR 480 by 120		Control, Vibrator, Silo Monitor Power	
CONTROL HOUSE		1	SUP	3 Kva XFMR 480 by 120		SGFC, Pumps, Light Power	
CONTROL HOUSE		1	SUP	24 VDC Power Supply	Omron	Wireless Remote Power	S8WK-G03024
CONTROL HOUSE	400-020	(2)-25#	FAB	Pug Mill Cables	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-021	(2)-25#	FAB	Hopper Screen Cables #1 & #2	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE		25#	FAB	Hopper Screen Cable #3	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-022	35#	FAB	Incline Screw	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-023	75#	FAB	Cross Feed Screw	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-024	(2)-25#	FAB	Sludge Hopper Screw Cables	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-025	30#	FAB	Line Screw Cable	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-026	30#	FAB	Silo Rotary Vane Cable	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-027	30#	FAB	Silo Blower Cable	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE		40#	FAB	Agitator	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE	400-028	80#	FAB	Silo Vibrator Cable	General Cable - Carol Brand	Caroline Jacketed Type SOOW #10/4 Cable	2727
CONTROL HOUSE		80#	FAB	Silo Monitor Cable	General Cable - Carol Brand	Caroline Jacketed Type SO #14/3 Cable	
CONTROL HOUSE		80#	FAB	Silo Monitor Data	Belden	PVC Jacketed 2 cond shielded 18ga Black and White	
CONTROL HOUSE		2	SUP	Cord Grips - SS Kellams	Hubbell	< .5" SS Grip	74071008
CONTROL HOUSE		1	SUP	SGFC Duplex Recept	Leviton	15 amp duplex receptacle	LEVW1896E

CONTROL HOUSE		1	SUP	Pump Receptacle	Hubbell	20 amp 120 VAC Recept	HWDHBL3811 IV
CONTROL HOUSE		1	SUP	Silo Monitor Plug	Leviton	Standard 15 Amp 120VAC Plug	LEV261
CONTROL HOUSE		1	SUP	Silo Vibrator Twist Lok Plug	Leviton	Twist Lok 20 Amp 120VAC Plug	LEV2310
CONTROL HOUSE		1	SUP	Silo Monitor Data Plug	Mencom	3 Conductor Male Pin Plug	MIN-3MP-FW
CONTROL HOUSE		1	SUP	Silo Monitor Data Receptacle	Mencom	3 Conductor 3 Pin Female Receptacle	MIN-3FR-1-18-PM
CONTROL HOUSE	400-029	13	SUP	Plug Connector	Hubbell	30A / 600V / 4 Pin IEC Connector	HBL430R7W
CONTROL HOUSE	400-030	13	SUP	Receptacle Connector	Hubbell	30A / 600V / 4 Pin IEC Connector	HBL430R7W
CONTROL HOUSE	400-031	13	SUP	S.S. Kellams Grips	Hubbell	< .75" S.S. Deluxe Cord Grip	7401021
CONTROL HOUSE		1	SUP	Main Power Receptacle	Hubbell	600V 100 Amp 4 wire - Female Pins Receptacle	HBL410GRS2WR
CONTROL HOUSE	400-032	1	SUP	Single Pole Device Receptacle	Hubbell	400A Through Hole Mount - Black OBSOLETE	HBLMRSBK
CONTROL HOUSE	400-033	1	SUP	Single Pole Device Receptacle	Hubbell	400A Through Hole Mount - Red OBSOLETE	HBLMRSR
CONTROL HOUSE	400-034	1	SUP	Single Pole Device Receptacle	Hubbell	400A Through Hole Mount - Blue OBSOLETE	HBLMRSBL
CONTROL HOUSE	400-035	2	SUP	Single Pole Device Plug	Hubbell	300A Plug - Black OBSOLETE	HBL300FBK
CONTROL HOUSE	400-036	2	SUP	Single Pole Device Plug	Hubbell	300A Plug - Red OBSOLETE	HBL300FR
CONTROL HOUSE	400-037	2	SUP	Single Pole Device Plug	Hubbell	300A Plug - Blue OBSOLETE	HBL300FBL
CONTROL HOUSE	400-038	3	SUP	Single Pole Protective Cap	Hubbell	400A Cap - Black OBSOLETE	HBLCAPBK
CONTROL HOUSE	400-039	300#	FAB	3 Main Feed Cables (100# ea)			
CONTROL HOUSE		(110#)	FAB	Ground Cable		DLO 4/0 Stranded Cable EPR Cover with Crimp Lugs for 1/2" Post	
CONTROL HOUSE		(14#)	FAB	Ground Cable		DLO 4/0 Stranded Cable EPR Cover with Crimp Lugs for 1/2" Post	
CONTROL HOUSE	400-101	4	FAB	HSS 2x2x3/16x66" LG			
CONTROL HOUSE	400-102	4	FAB	HSS 2x2x3/16x66" LG			
CONTROL HOUSE	400-103	6	FAB	HSS 2x2x3/16x66" LG			
CONTROL HOUSE	400-104	4	FAB	HSS 2x2x3/16x63.66" LG			
CONTROL HOUSE	400-105	2	FAB	L2x2x1/4x11.75" LG			
CONTROL HOUSE	400-106	2	FAB	L2x2x1/4x12.13" LG			
CONTROL HOUSE	400-107	5	FAB	L2x2x1/4x38" LG			
CONTROL HOUSE	400-108	4	FAB	L2x2x1/4x18" LG			
CONTROL HOUSE	400-109	1	FAB	PL 6x.75x6" LG		Lifting Lug	
CONTROL HOUSE	400-110	2	FAB	PL 25 Diamond Plate 30x60		Diamond Plate Floor	
CONTROL HOUSE	400-111	2	FAB	PL 7ga 52 x 48 Lg.		Roof Panel with Drip Edge	
CONTROL HOUSE	400-112	1	FAB	PL .25x4 x 18 Lg.		Mount Plate for Silo Line Level Control Unit	
PUGMILL DUNNAGE	500-091A	1	FAB	WB25 x 146.00" Lg.		Wide Flange	
PUGMILL DUNNAGE	500-091B	1	FAB	WB25 x 146.00" Lg.		Wide Flange	
PUGMILL DUNNAGE	500-092A	1	FAB	WB25 x 48 1/2" Lg.		Wide Flange	
PUGMILL DUNNAGE	500-092B	1	FAB	WB25 x 48 1/2" Lg.		Wide Flange	
PUGMILL DUNNAGE	500-093	1	FAB	PL 12x.5 x 54.50" Lg.		Plate	
PUGMILL DUNNAGE	500-094	1	FAB	PL 6x.50 x 48 1/2" Lg.		Plate	
PUGMILL DUNNAGE	500-095	1	FAB	PL 24x.75 x 54.50" Lg.		Drive Mount Plate	
PUGMILL DUNNAGE	500-096	1	FAB	PL 11.25x.5 x 16.00 Lg.		Plate	
PUGMILL DUNNAGE	500-097	2	FAB	TS 4x4x.19x1.00" Lg.		Tube Shape	
PUGMILL DUNNAGE	500-098	8	FAB	L 4x4x.50x5.50" Lg.		Angle	
PUGMILL DUNNAGE	500-099	2	FAB	L 4x4x.50x5.50" Lg.		Angle	
PUGMILL DUNNAGE	500-100	2	FAB	TS 3.5x3.5x16 x 36.00" Lg.		Tube Shape	
PUGMILL DUNNAGE	500-101	4	FAB	L 6x6x.50 x 6.00" Lg.		Angle	180458
PUGMILL DUNNAGE	500-112	2	SUP	Stabilizing Jack	Bulldog	Leveling Jack w/ Plat, 10000 lb, Adjustable Height, w/ Hand Crank	
PUGMILL DUNNAGE	500-013	4	FAB	PL 5x.5 x 7.00 Lg.		Lifting Lug	
PUGMILL DUNNAGE	500-014	1	FAB	L 4x4x.50x5.50" Lg.		Angle	see MANUFACTURER
PUGMILL DUNNAGE	500-015	4	SUP	3/4" bolts, washers, nuts	(multiple)	Mounting Hardware, Pug Mill to Dunnage	
PUGMILL DUNNAGE	500-016	4	FAB	Dunnage Mount Looking Pin	(multiple)	0.75"dia x 6" L, Looking Pin	see MANUFACTURER
PUGMILL DUNNAGE	500-017	4	SUP	Looking pin outer pin	(multiple)	Haipin Center Pin, fits 3/4" Shaft (wire diameter???)	see MANUFACTURER
PUGMILL DUNNAGE	500-018	2	SUP	3/4" bolts, washers, nuts	(multiple)	Mounting Hardware, Stabilizing Jack to Dunnage	
PUGMILL DUNNAGE	500-019	2	FAB	Shim		Shim, 5/16" thick (Norm to advise)	SK 6382 A2-B-160 M4 (M1)
PUG MILL	600-001A	1	SUP	Electric Motor / Gear Reduction	Nort Gear Corp.	15 hp, 1800 rpm, 3 ph, TEFC, 51:07 Ratio (M1)	SK 6382 A2-B-160 M4 (M3)
PUG MILL	600-001B	1	SUP	Electric Motor / Gear Reduction	Nort Gear Corp.	15 hp, 1800 rpm, 3 ph, TEFC, 51:07 Ratio (M3)	PEB22447H
PUG MILL	600-002	2	SUP	Pillow Bearing (Idle side)	Remond	2-1516" Dia., 2-Bolt, Medium-Duty	PEB22447H
PUG MILL	600-003	2	SUP	Pillow Bearing (Drive side)	Remond	2-1516" Dia., 2-Bolt, Medium-Duty	see MANUFACTURER
PUG MILL	600-003A	8	SUP	Mnlg Hardware, Pillow Bearing to Plate	(multiple)	Mounting Hardware, Pillow Bearing to Mounting Plate	
PUG MILL	600-004	4	FAB	Flange Pack Seal		2-1516" Dia. Flange Pack Seal	
PUG MILL	600-004A	8	SUP	1/2" Compression Packing	Garlock	1/2" Compression Packing w/ Graphite (2pc/seat, cut to length)	
PUG MILL	600-005	4	FAB	Packing Gland Follower (2-pc set)		Packing Retainer (2-pc set)	see MANUFACTURER
PUG MILL	600-005A	8	SUP	Retainer Hardware	(multiple)	Retainer Hardware	see MANUFACTURER
PUG MILL	600-006	8	SUP	1/2" bolts, flange washers	(multiple)	Mounting hardware, retainer to pack seal	see MANUFACTURER
PUG MILL	600-005B	16	SUP	Mnlg Hardware, Pack Seal to Idle End	(multiple)	3/4" hex bolts, flats, lockw, nuts	SG350
PUG MILL	600-006	4	SUP	Split Gland Seal	KWS Manufacturing Co	2-1516" Dia. Split Gland Seal (includes hardware)	
PUG MILL	600-006A	4	SUP	Split Gland Seal Packing	Garlock	3/4" Compression Packing w/ graphite (1pc/seat, cut to length)	
PUG MILL	600-007	2	FAB	16" Dia. Pitch Spur Gear		16" Dia. Pitch / 1.666" Dia. OD, 3 1/2" Face	
PUG MILL	600-007A	2	FAB	Key for Spur Gear		Key, 3/4" x 3/4" x 3-1/2" Lg	
PUG MILL	600-008	2	FAB	Back Side Mixing Shaft		Mixing Shaft	
PUG MILL	600-008A	1	FAB	TS 5x6x.375 x 99.375" Lg.		Tube Shape - A500 GRB	
PUG MILL	600-008B	1	FAB	TOP 3.25 Dia. x 47.3125" Lg.		Precision Shafting, Not Rolled Bar (1045 Steel)	
PUG MILL	600-008C	1	FAB	TOP 3.25 Dia. x 27.9375" Lg.		Precision Shafting, Not Rolled Bar (1045 Steel)	
PUG MILL	600-008D	2	FAB	Sq. Bar x 1.05 x 11.3125" Lg.		Sq. Bar - Low Carbon Steel	
PUG MILL	600-009	1	FAB	Front Side Mixing Shaft		Mixing Shaft	
PUG MILL	600-009A	1	FAB	TS 5x6x.375 x 99.375" Lg.		Tube Shape - A500 GRB	
PUG MILL	600-009B	1	FAB	TOP 3.25 Dia. x 47.3125" Lg.		Precision Shafting, Not Rolled Bar (1045 Steel)	
PUG MILL	600-009C	1	FAB	TOP 3.25 Dia. x 27.9375" Lg.		Precision Shafting, Not Rolled Bar (1045 Steel)	
PUG MILL	600-009D	2	FAB	Sq. Bar x 1.05 x 11.3125" Lg.		Sq. Bar - Low Carbon Steel	
PUG MILL	600-009E	2	FAB	Key for Mixing Shaft		Key, 3/4" x 3/4" x 7" Lg.	
PUG MILL	600-009F	2	FAB	Keeper for Mixing Shaft Key		(Norm to provide details of fab work)	
PUG MILL	600-010	1	FAB	PL 25 x 33" x 96.5" Lg.		Bent Plate for Spur Gear Box	
PUG MILL	600-011	1	FAB	PL 25 x 25" x 42" Lg.		Bent Plate for Front of Spur Gear Box	
PUG MILL	600-012	1	FAB	PL 25 x 11" x 42" Lg.		Top Plate for Spur Gear Box	
PUG MILL	600-013	2	FAB	PL 25 x 6" x 12" Lg.		Bent Plate Legs (Left & Right) for Spur Gear	see MANUFACTURER
PUG MILL	600-013A	36	SUP	1/2" bolts, nuts, washers	(multiple)	Mounting hardware, Gear Box	600-014A to 600-014C
PUG MILL	600-014	2	FAB	Pillow Bearing Mount Plate			
PUG MILL	600-014A	2	FAB	PL 50 x 6.0" x 30" Lg.		Plate	
PUG MILL	600-014B	10	FAB	PL 50 x 7.0" x 8.75" Lg.		Plate - Gasket	
PUG MILL	600-014C	2	FAB	PL 75 x 5.0" x 30" Lg.		Plate - Bearing Mounting Plate	600-100A to 600-100D
PUG MILL	600-100	46	FAB	Paddle Assembly			
PUG MILL	600-100A	46	FAB	PL 1 x 4.25" x 8.125" LG, AR500		AR500 Paddle	
PUG MILL	600-100B	46	FAB	PL 75 x 3" x 7.75" Lg.		Paddle Arm	
PUG MILL	600-100C	46	FAB	PL 75 x 2" x 9" Lg.		Paddle Am	(Norm to advise)
PUG MILL	600-100D	92	SUP	1/2"-13 x 2.25" Bolt, lock, nut	(Norm to advise)	Grade 5 - Bolt & Conical Toplock Nut	600-201 to 600-223
PUG MILL	600-200		FAB	Pug Mill Unit			
PUG MILL	600-201	4	FAB	TS 3x2x.25 x 102.125 Lg.		Tube Shape - Top & Bottom Side Rails	
PUG MILL	600-202	10	FAB	TS 3x2x.25 x 25.4375 Lg.		Tube Shape - Uprights	
PUG MILL	600-203	5	FAB	TS 3x2x.25 x 41.625 Lg.		Tube Shape - Bottom Supports	
PUG MILL	600-204	1	FAB	L 5x3x.25 x 41.625 Lg.		Angle - Outlet Support	
PUG MILL	600-205	2	FAB	L 5x3x.25 x 17 Lg.		Angle - Outlet Side Support	
PUG MILL	600-206	3	FAB	L 2x1.25x.25 x 41.625" Lg.		Angle - Cover Supports	
PUGMILL	600-206A	1	FAB	L 2x3x.25 x 41.625" Lg.		Angle - Cover Support to Incline Auger	
PUG MILL	600-207	1	FAB	PL 25x82.25 x 102.125 Lg.		Bent Plate - Mill Bottom / AR235	
PUG MILL	600-208	1	FAB	PL 25x24.25 x 45.125" Lg.		Cover Plate #1 / w/ 16" Dia. Input Opening	
PUG MILL	600-209	1	FAB	PL 25x22.875 x 45.125" Lg.		Cover Plate #2 / w/ 10" Dia. Input Opening	
PUG MILL	600-210	1	FAB	PL 25x18.875 x 45.125" Lg.		Cover Plate #3	
PUG MILL	600-211	1	FAB	PL 25x18 x 45.125" Lg.		Cover Plate #4	
PUG MILL	600-212	1	FAB	PL 25x18.25 x 45.125" Lg.		Cover Plate #5	see MANUFACTURER
PUG MILL	600-212A	20	SUP	Cover Mounting Hardware	(multiple)	1/4" hex bolt	
PUG MILL	600-213	10	FAB	25 SII. Bar x 7" Lg.		Bent Bar Handle	
PUG MILL	600-214	1	FAB	PL 375x31.1875 x 45.5" Lg.		Plate - Drive End	

PUG MILL	600-215	1	FAB	PL 375x21 1875 x 45.5" Lg		Plate - Idler End	see MANUFACTURER
PUG MILL	600-215A	21	SUP	12" bolts, nuts, washers	(multiple)	Mounting hardware, Idler end plate to pugmill body	
PUG MILL	600-216	1	FAB	10" Dia. Sch 10 (3/16" wall) x 8" Lg		Inlet Pipe - Line	
PUG MILL	600-217	2	FAB	L 3x3x.25 x 5.625" Lg		Tube Shape - Filter / Bolting Flange	
PUG MILL	600-218	1	FAB	TS 6x2x.25 x 41.625" Lg		Tube Shape - Top Support	
PUG MILL	600-219	2	FAB	TS 3x2x.25 x 42.1875" Lg		Tube Shape - Diagonal Brace	
PUG MILL	600-220	1	FAB	TS 4x2x.25 x 41.625" Lg		Tube Shape - Idler End Support	
PUG MILL	600-221	2	FAB	L 3x2x.25 x 25.4375" Lg		Angle - Bolting Flange	
PUG MILL	600-222	1	FAB	L 3x2x.25 x 41.625" Lg		Angle - Bolting Flange	
PUG MILL	600-223	2	FAB	PL 25x2 x 12" Lg		Plate Curved - Bolting Flange	

REVIEW SET 01-28-2014

REVISIONS:			
7	EMH	REVISION SET B	- January 28, 2014
6	EMH	REVISION SET B	- January 17, 2014
5	EMH	REVISION SET B	- December 06, 2013
4	EMH	REVISION SET B	- October 21, 2013
3	MJP	REVISION SET B	- September 20, 2013
2	MJP	REVISION SET B	- September 12, 2013
1	MJP	REVISION SET B	- August 23, 2013

TITLE:
PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)
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DATE: January 28, 2014

JOB NUMBER: B3450-A

PREPARED BY:



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tel: (610) 977-8833 fax: (610) 977-9836
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DRAWN BY: MJP

APPROVED BY: RJK

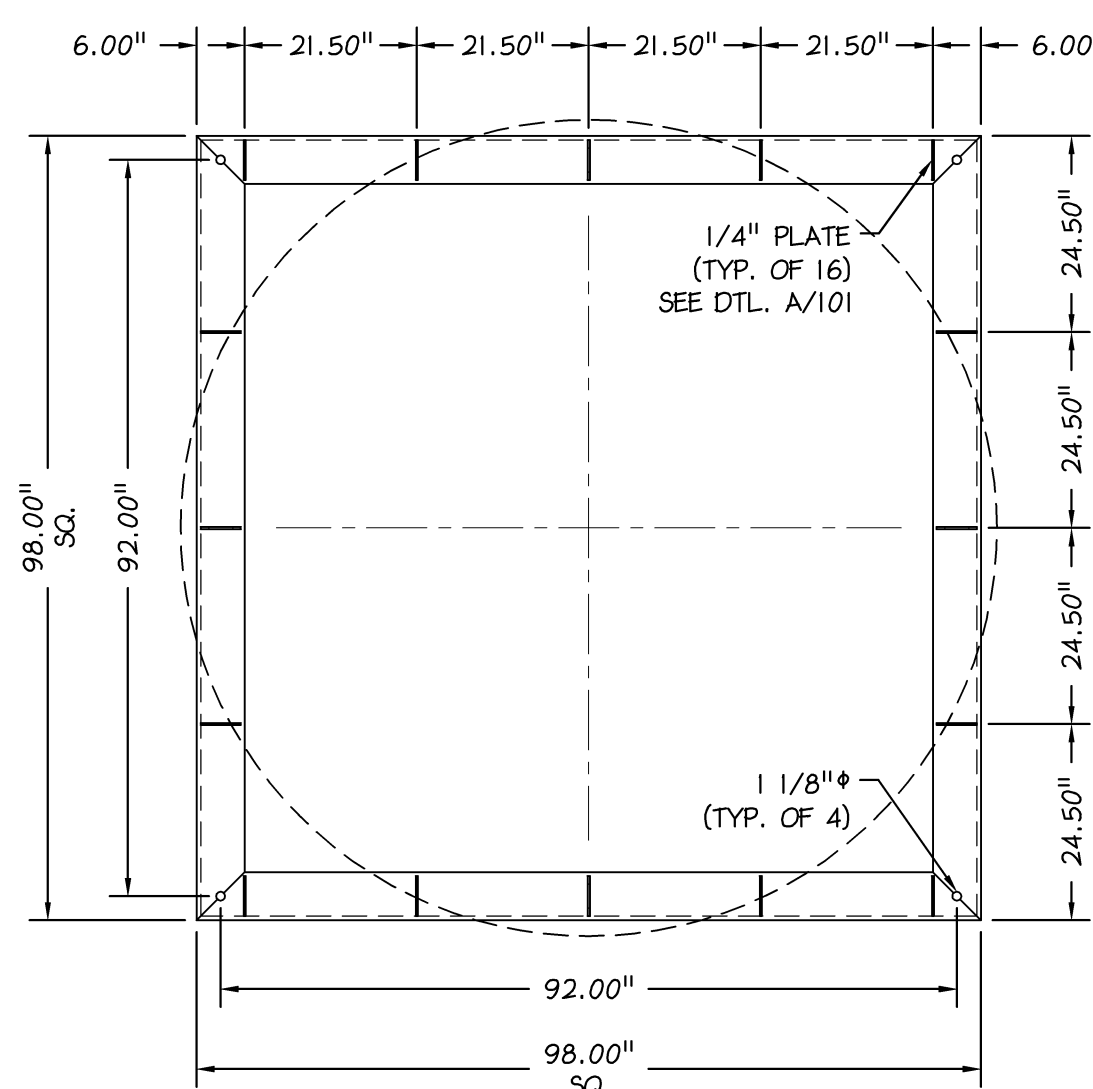
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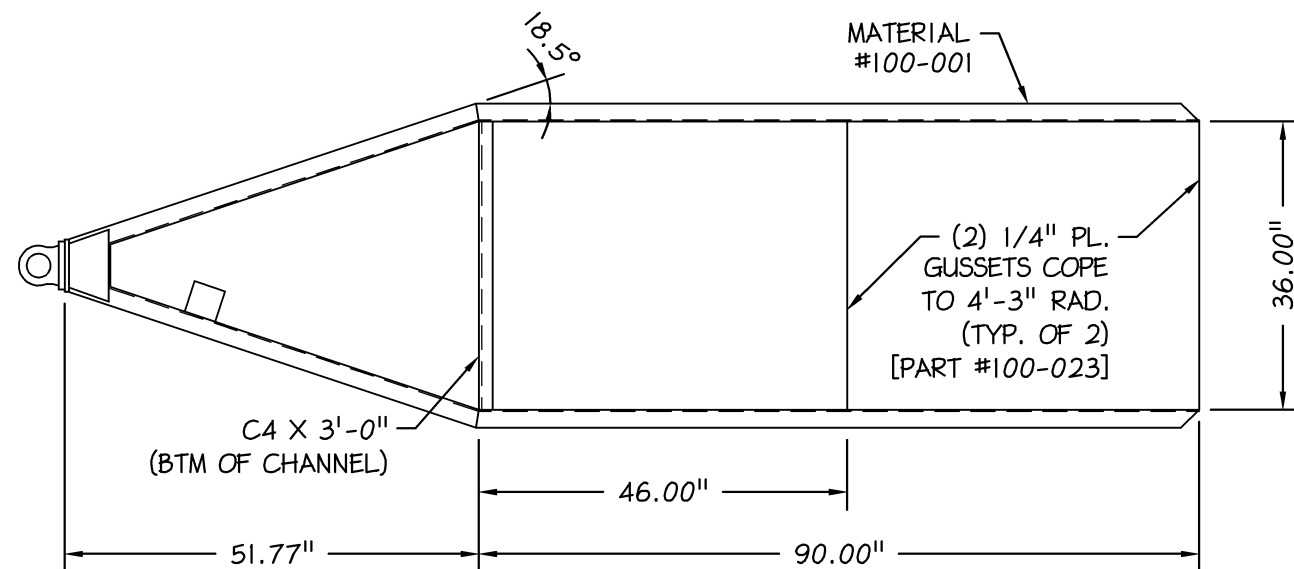
SUSQUEHANNA
SERVICES, INC.

CHECKED BY: EMH

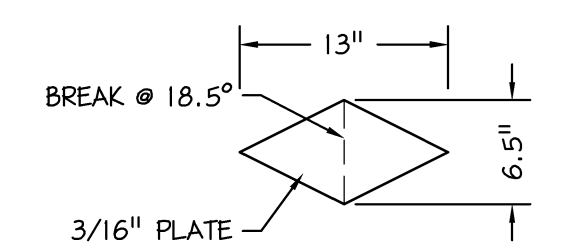
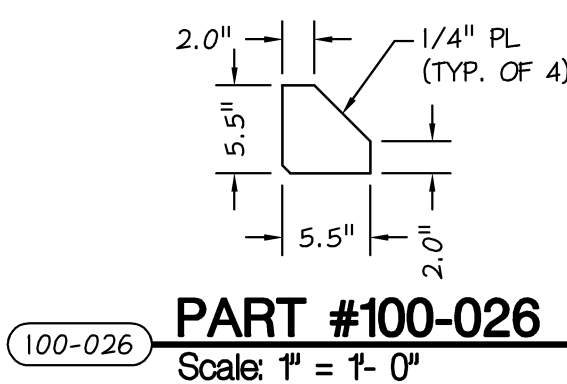
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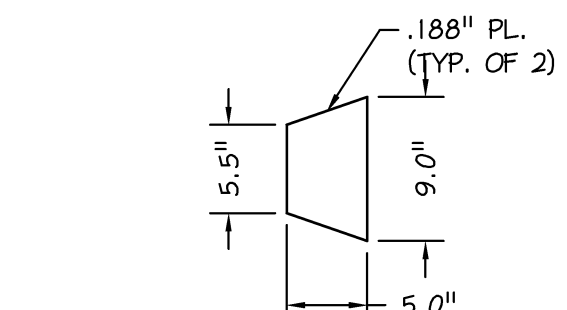
3 BASE PLATE - PLAN VIEW
101 Scale: 1/2" = 1'-0"



4 TRAILER FRAME - PLAN VIEW
101 Scale: 1/2" = 1'-0"

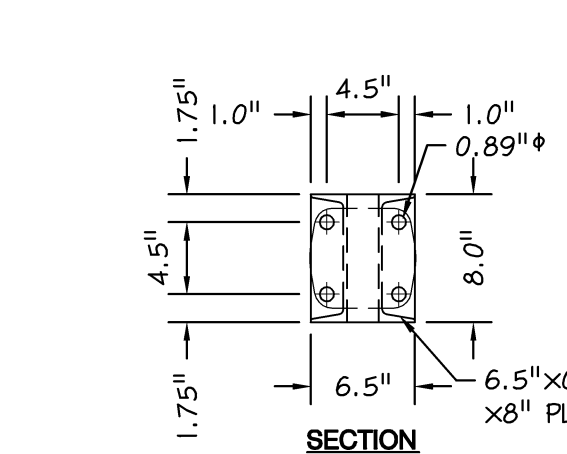


PART #100-025
Scale: 1" = 1'-0"



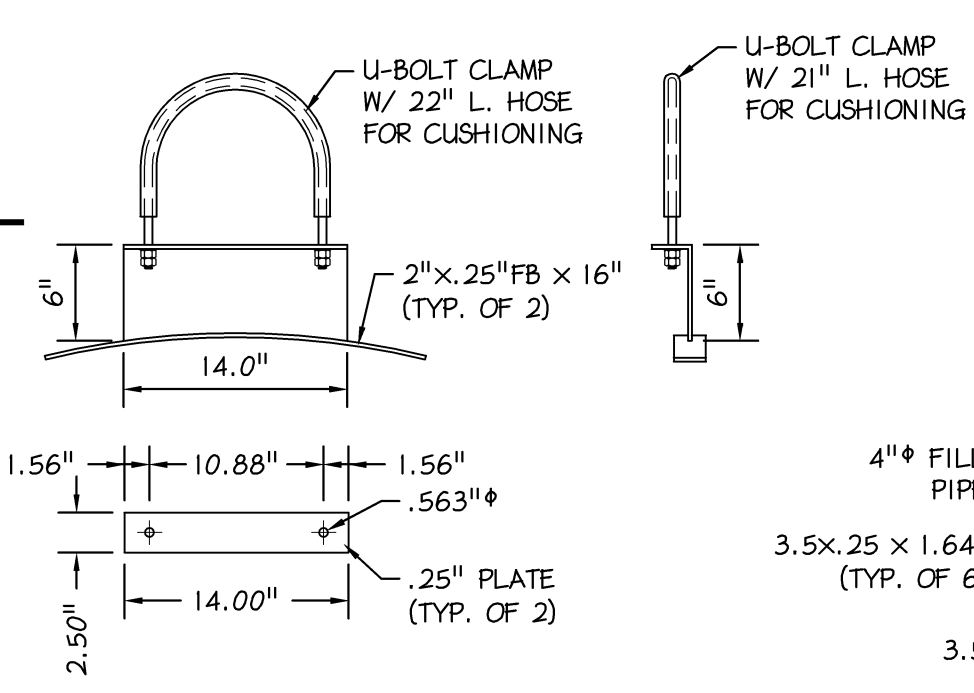
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PART #100-023
Scale: 1" = 1'-0"



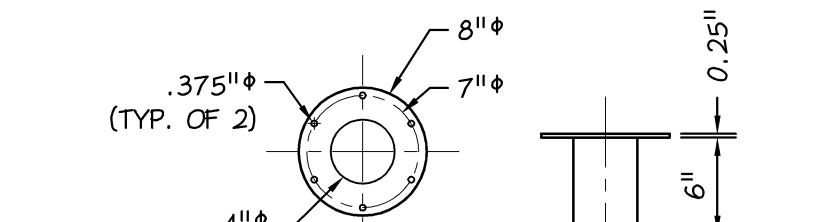
PART #100-022
Scale: 1" = 1'-0"

5 TRAILER FENDERS - PLAN VIEW
101 Scale: 1/2" = 1'-0"

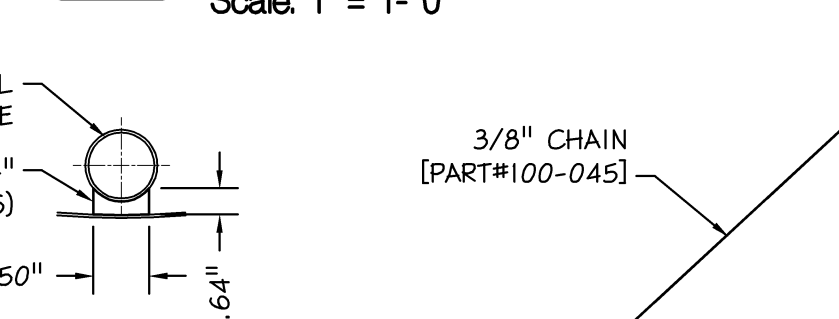


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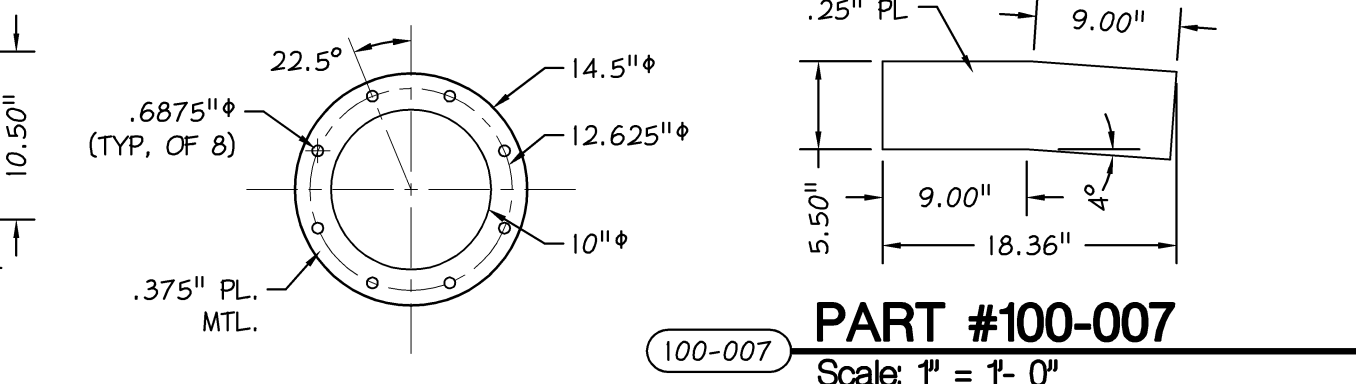
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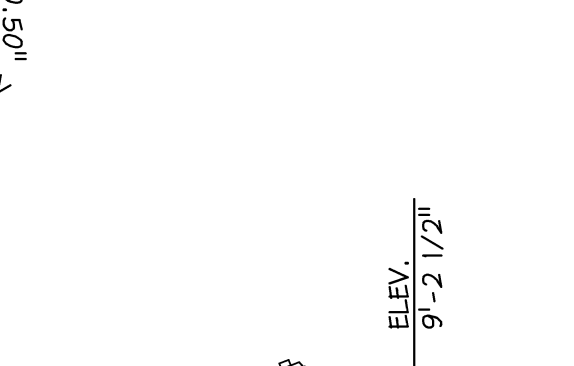
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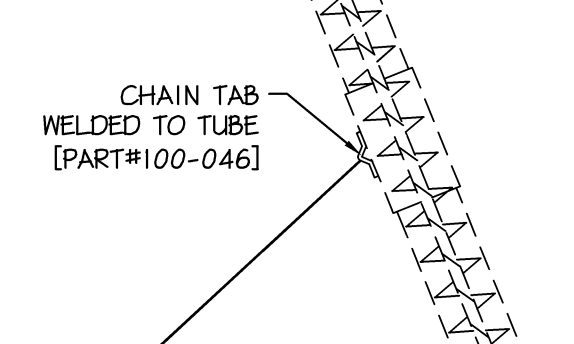
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PART #100-029
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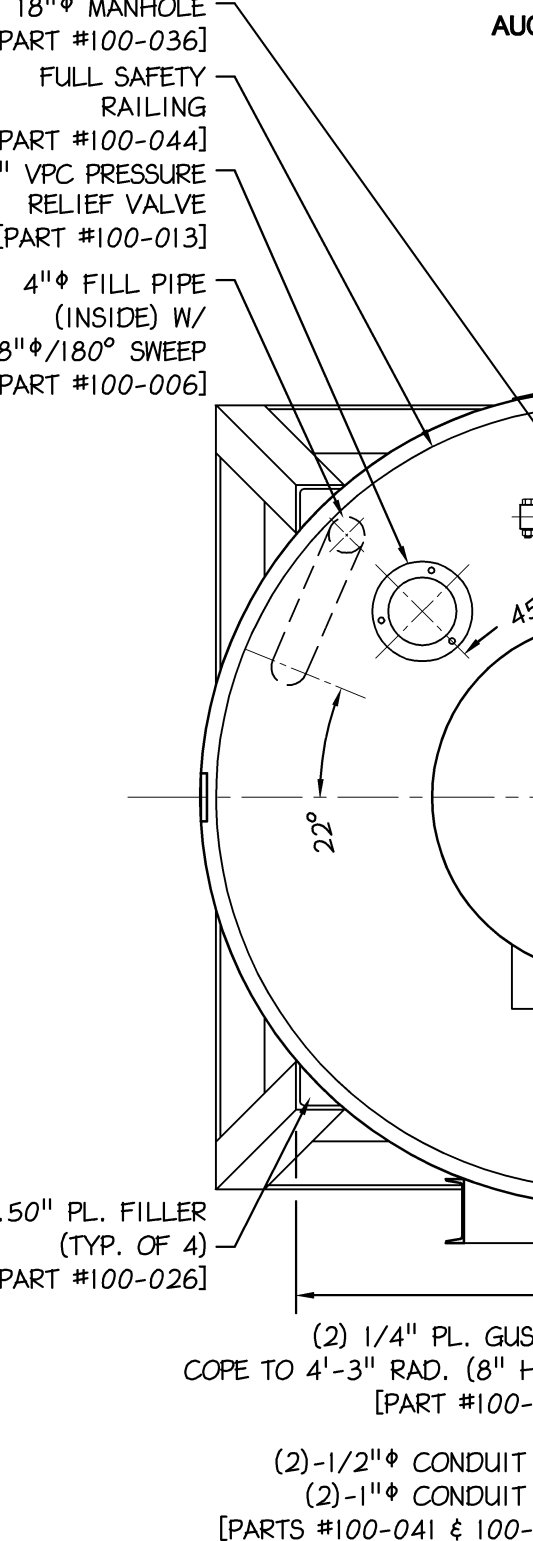


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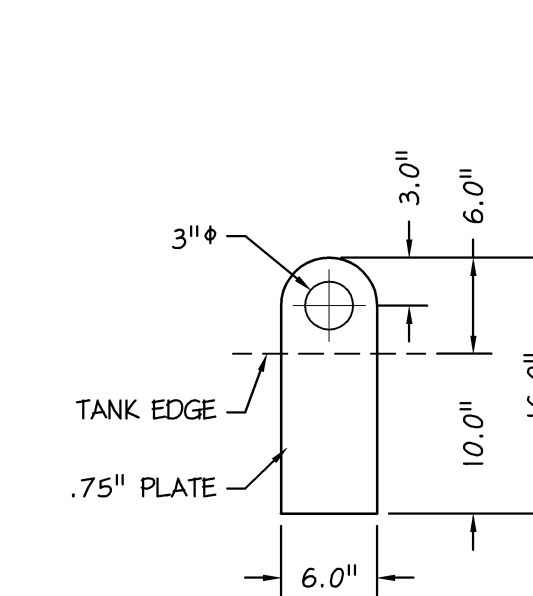


PART #100-034
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PART #100-020
Scale: 1" = 1'-0"

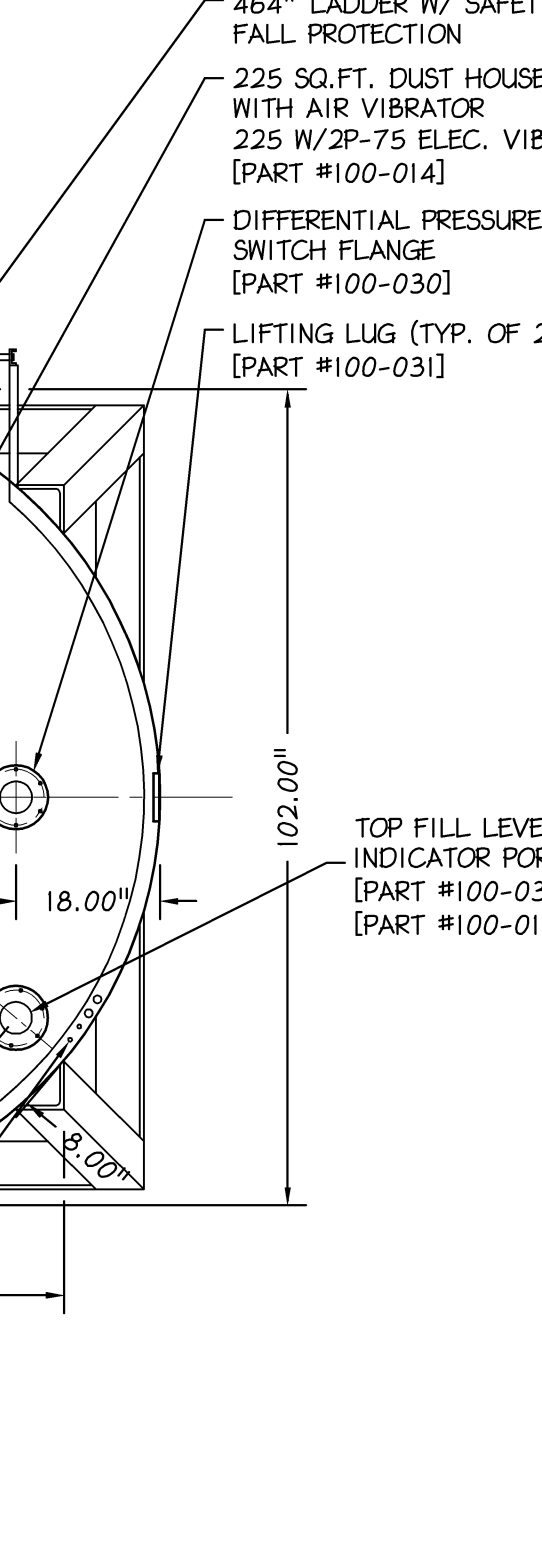


1 SILO VESSEL - PLAN VIEW
101 Scale: 1/2" = 1'-0"

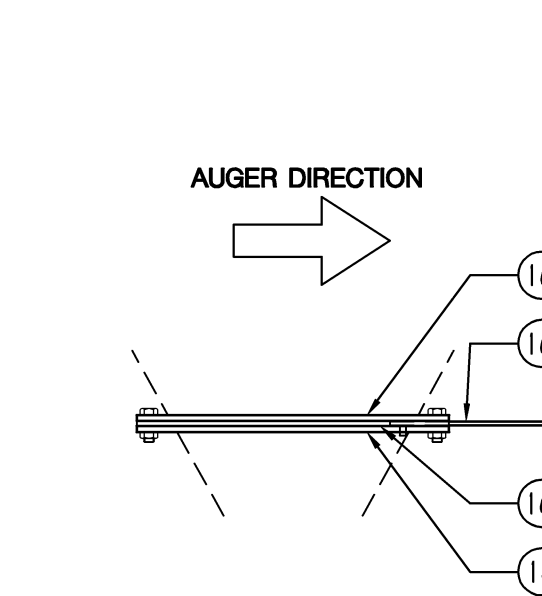


PART #100-031
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PART #100-021
Scale: 1" = 1'-0"

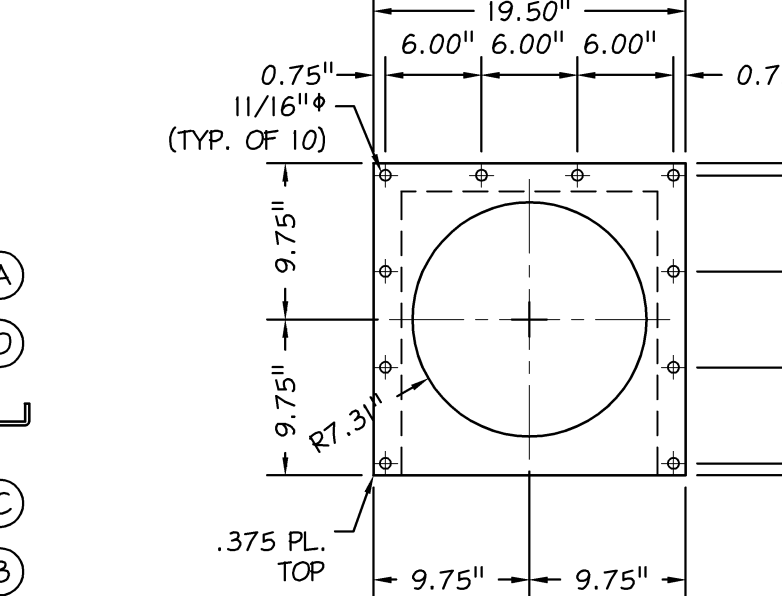


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Scale: 1" = 1'-0"



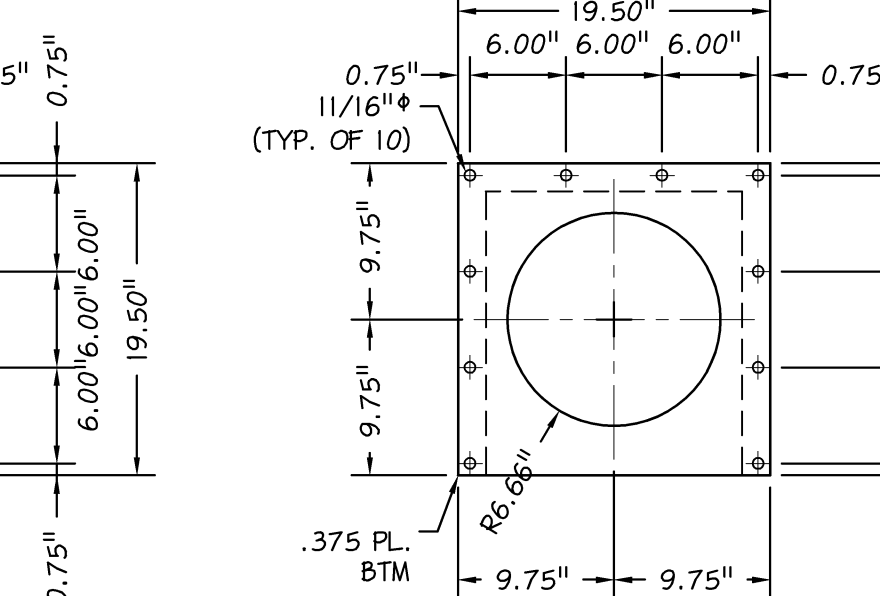
PART #100-033B
Scale: 1" = 1'-0"

2 SILO VESSEL - ELEVATION
101 Scale: 1/2" = 1'-0"



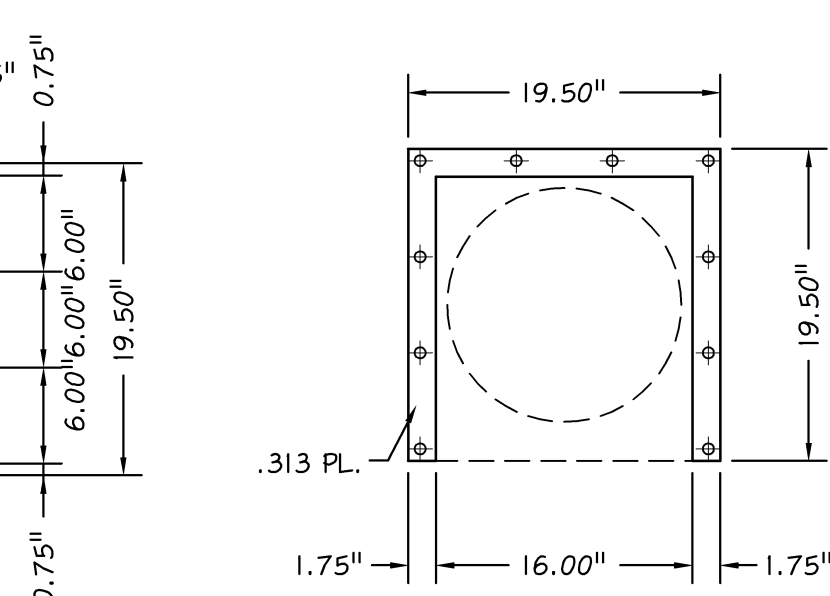
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Scale: 1" = 1'-0"

PART #100-033D
Scale: 1" = 1'-0"



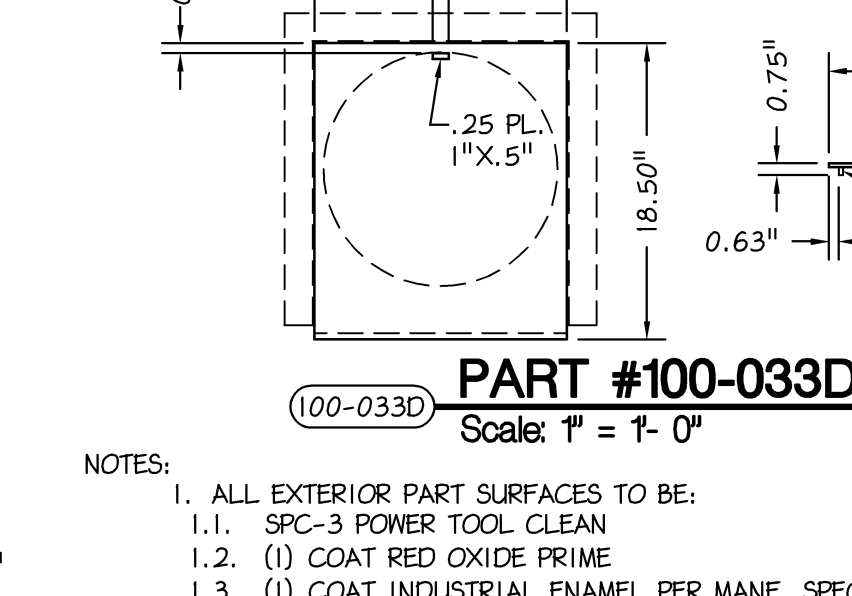
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Scale: 1" = 1'-0"

PART #100-033F
Scale: 1" = 1'-0"



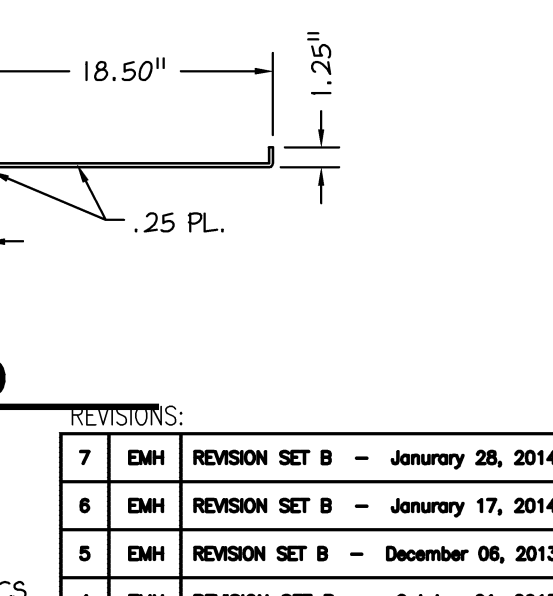
PART #100-033G
Scale: 1" = 1'-0"

PART #100-033H
Scale: 1" = 1'-0"



PART #100-033I
Scale: 1" = 1'-0"

PART #100-033J
Scale: 1" = 1'-0"



PART #100-033K
Scale: 1" = 1'-0"

PART #100-033L
Scale: 1" = 1'-0"



PART #100-033M
Scale: 1" = 1'-0"

NOTES:
1. ALL EXTERIOR PART SURFACES TO BE:
1.1. SPC-3 POWER TOOL CLEAN
1.2. (1) COAT RED OXIDE PRIME
1.3. (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECS.
(COLOR TBD BY SUSQUEHANNA SERVICES)

REVISIONS:		
7	EMH	REVISION SET B - January 28, 2014
6	EMH	REVISION SET B - January 17, 2014
5	EMH	REVISION SET B - December 06, 2013
4	EMH	REVISION SET B - October 21, 2013
3	MJP	REVISION SET B - September 20, 2013
2	MJP	REVISION SET B - September 12, 2013
1	MJP	REVISION SET B - August 23, 2013

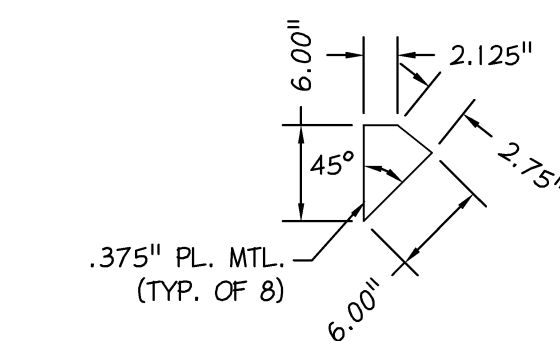
PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

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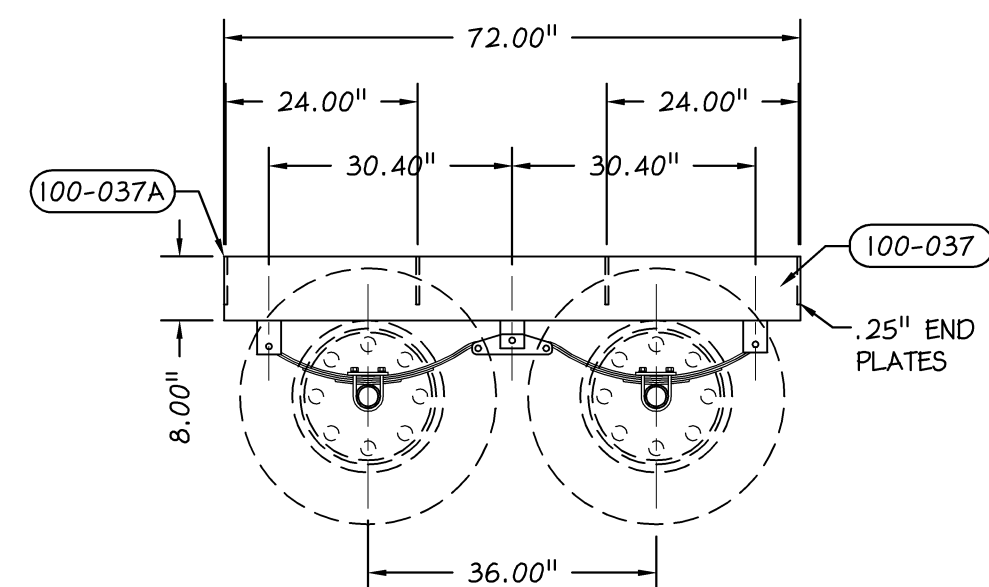
DATE: January 28, 2014 DRAWN BY: MJP CHECKED BY: EMH
JOB NUMBER: B3450-A APPROVED BY: RJK SHEET NO: 101

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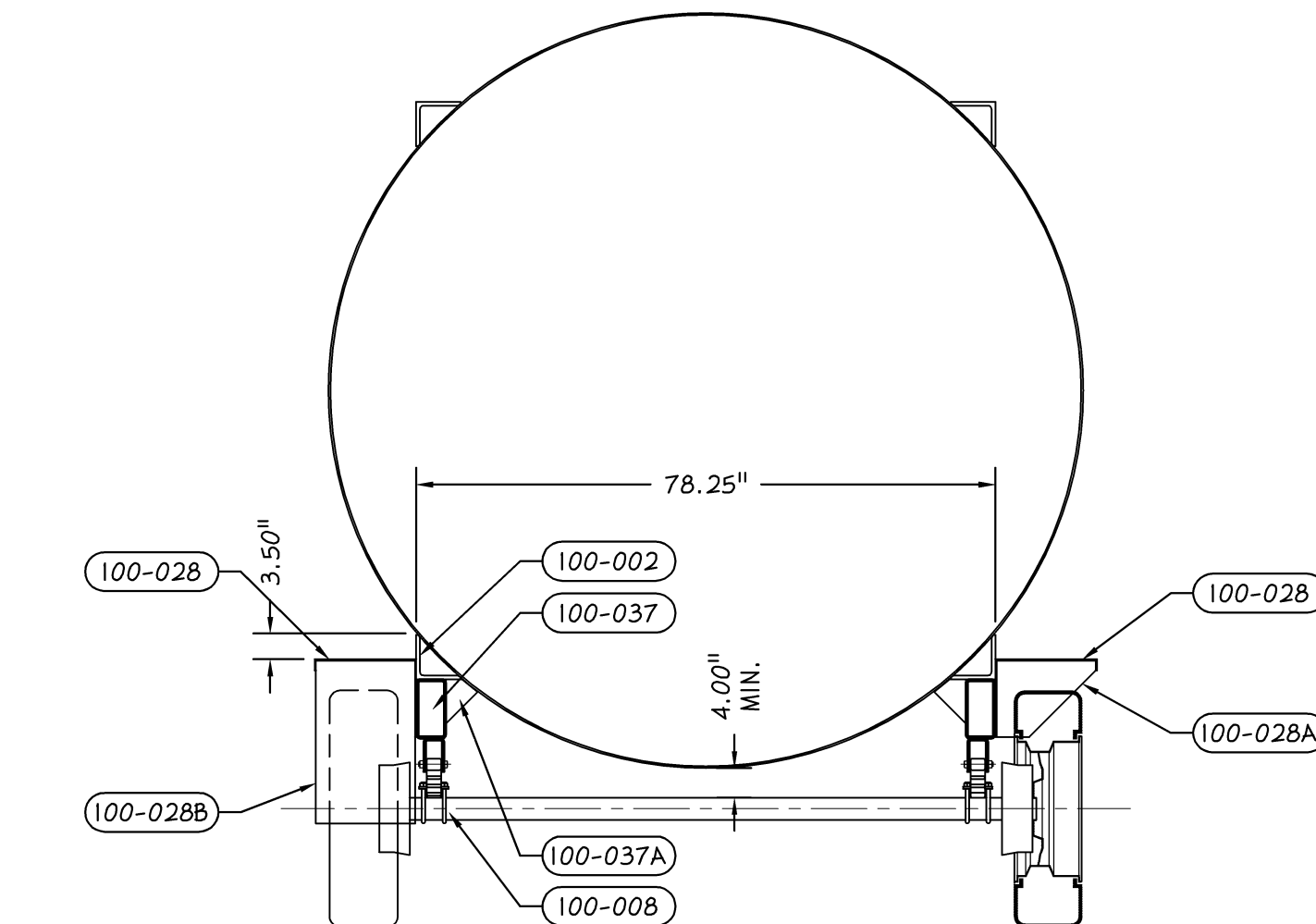
SUSQUEHANNA SERVICES, INC.



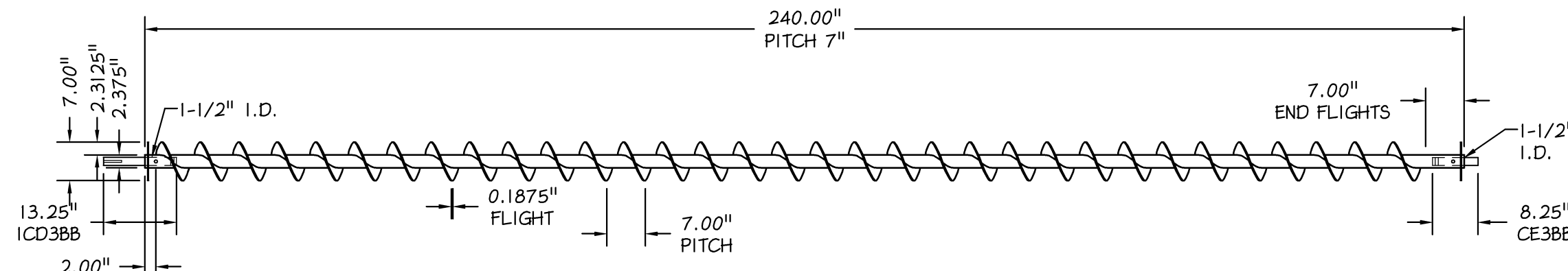
PART #100-037A
Scale: 1" = 1'-0"



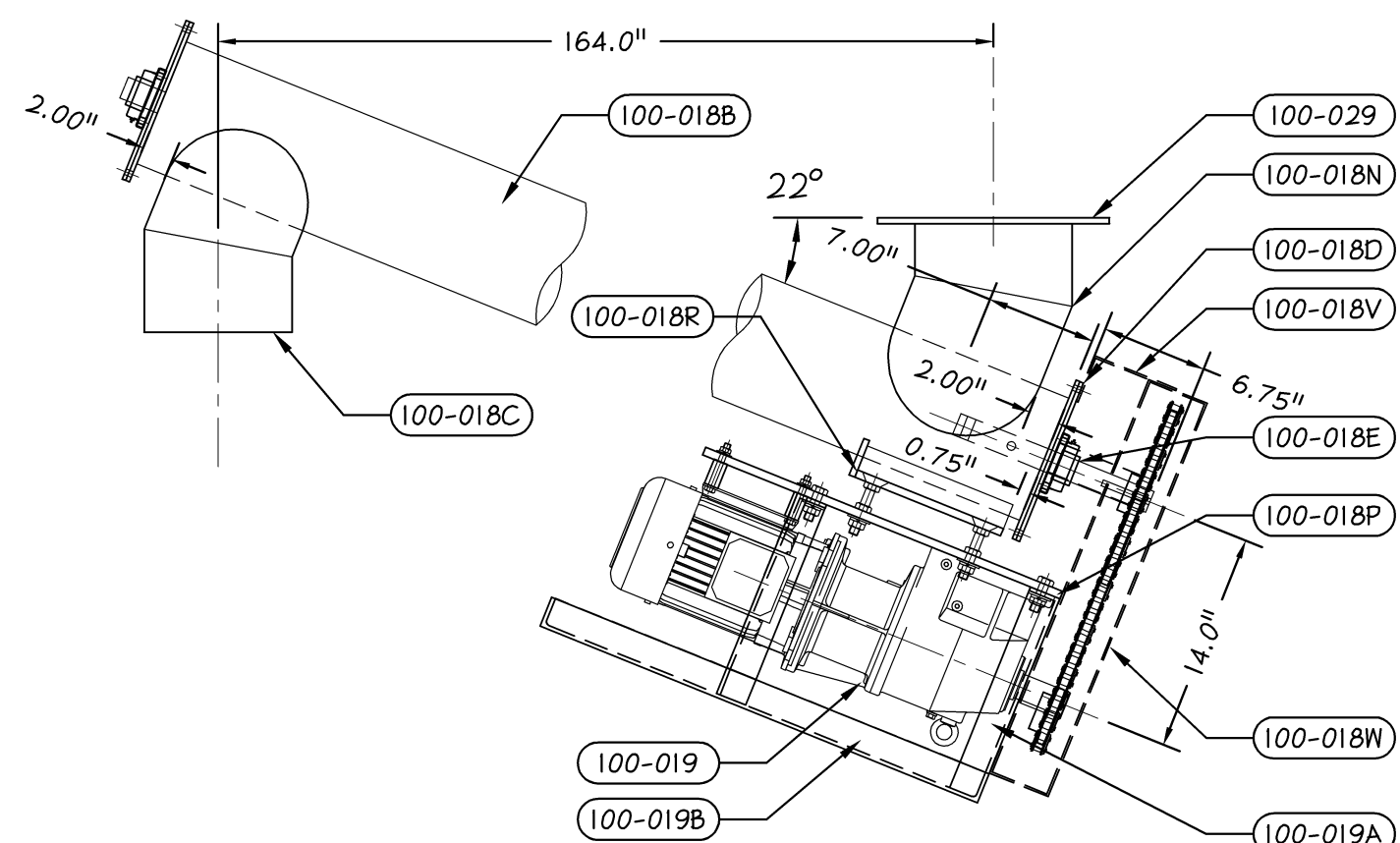
1 WHEEL ASSEMBLY - ELEVATION
102 Scale: 1/2" = 1'-0"



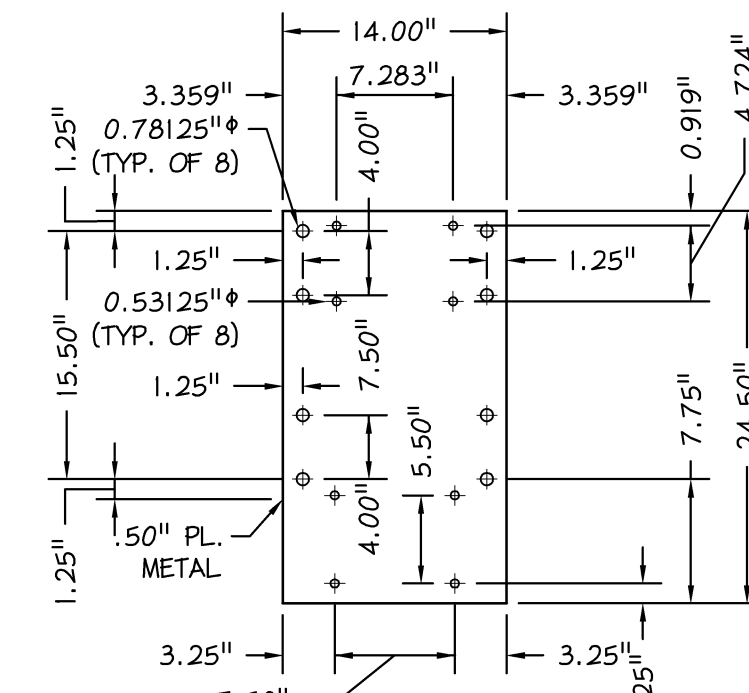
2 SILO VESSEL - SECTION
102 Scale: 1/2" = 1'-0"



PART #100-018A
Scale: 3/4" = 1'-0"



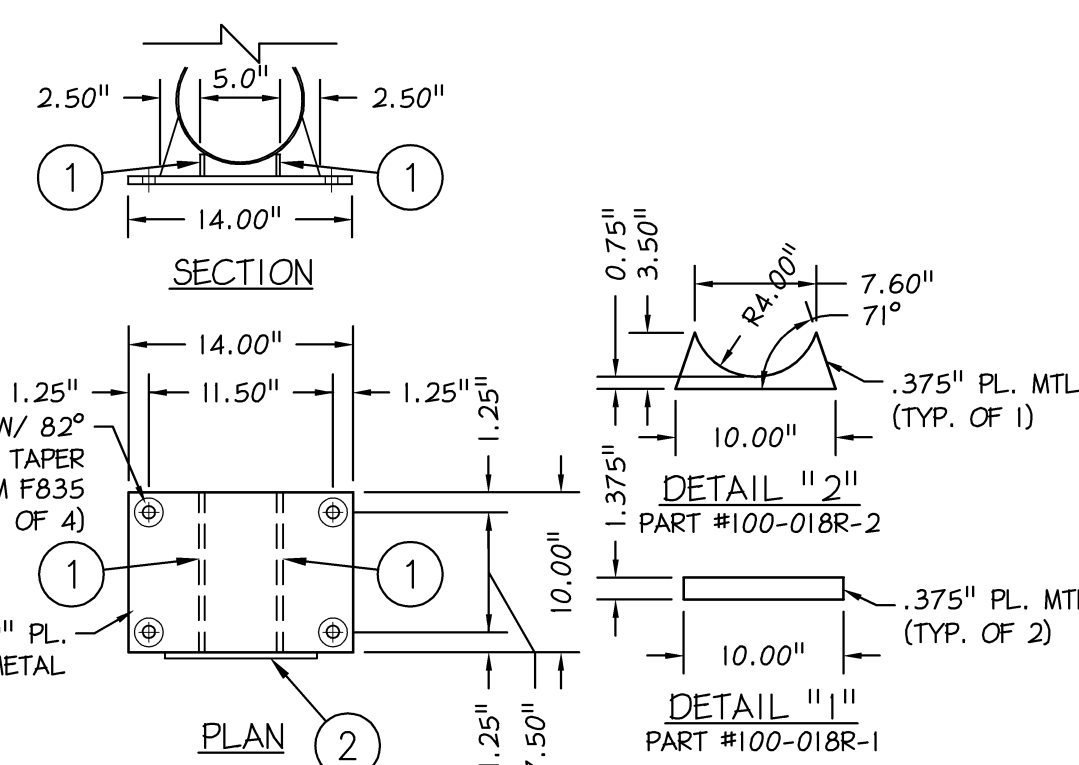
3 SILO CONVEYOR SCREW - SIDE VIEW
102 Scale: 1" = 1'-0"



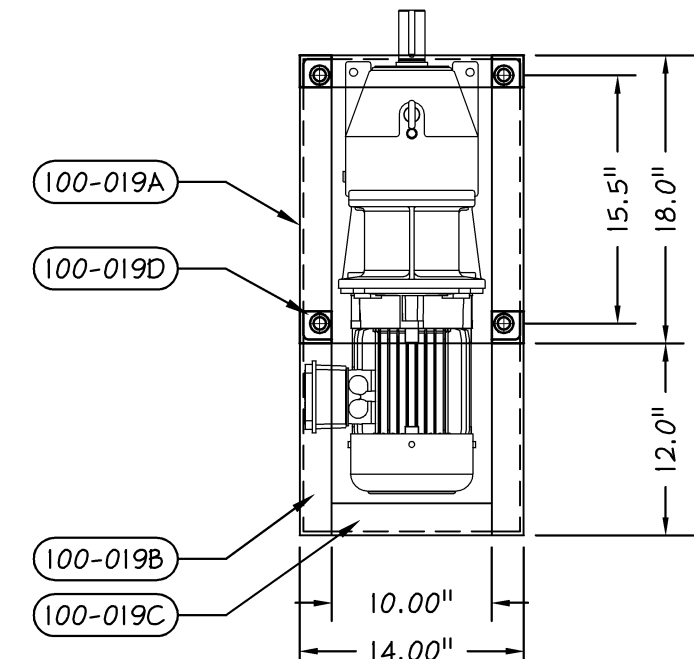
PART #100-018P
Scale: 1" = 1'-0"

- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
 - 1.1. SPC-3 POWER TOOL CLEAN
 - 1.2. (1) COAT RED OXIDE PRIME
 - 1.3. (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECS. (COLOR TBD BY SUSQUEHANNA SERVICES)

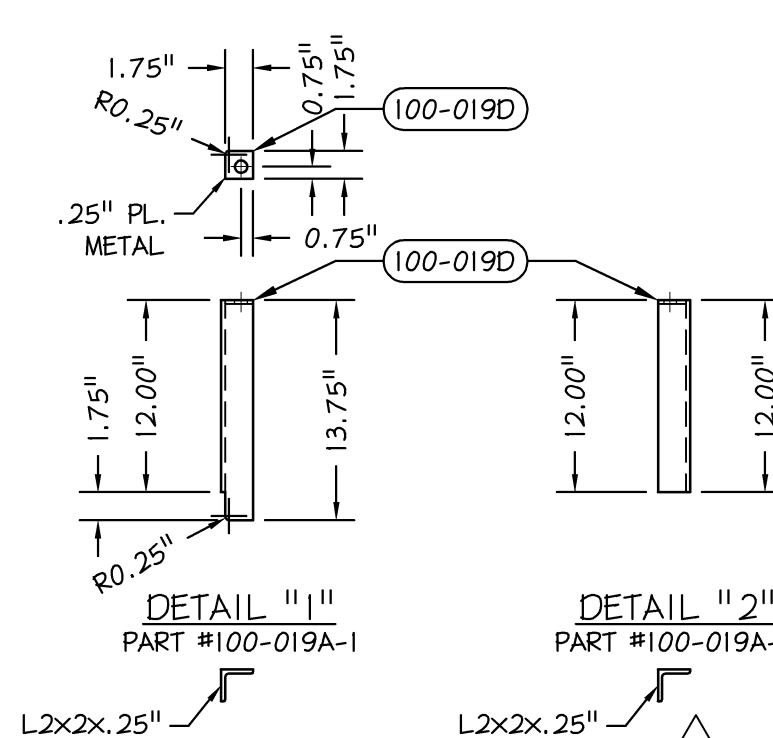
REVISIONS:	
7	EMH REVISION SET B - January 28, 2014
6	EMH REVISION SET B - January 17, 2014
5	EMH REVISION SET B - December 06, 2013
4	EMH REVISION SET B - October 21, 2013
3	MJP REVISION SET B - September 20, 2013
2	MJP REVISION SET B - September 12, 2013
1	MJP REVISION SET B - August 23, 2013



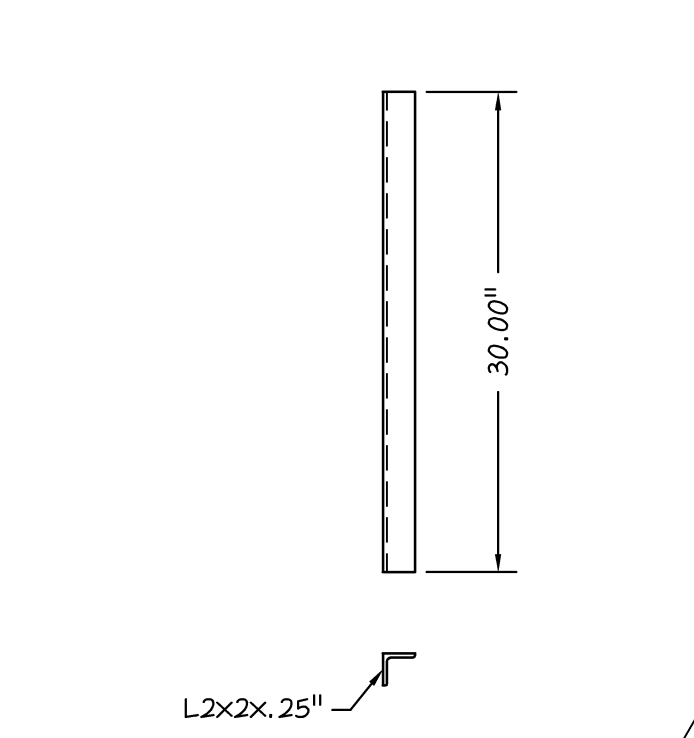
PART #100-018R
Scale: 1" = 1'-0"



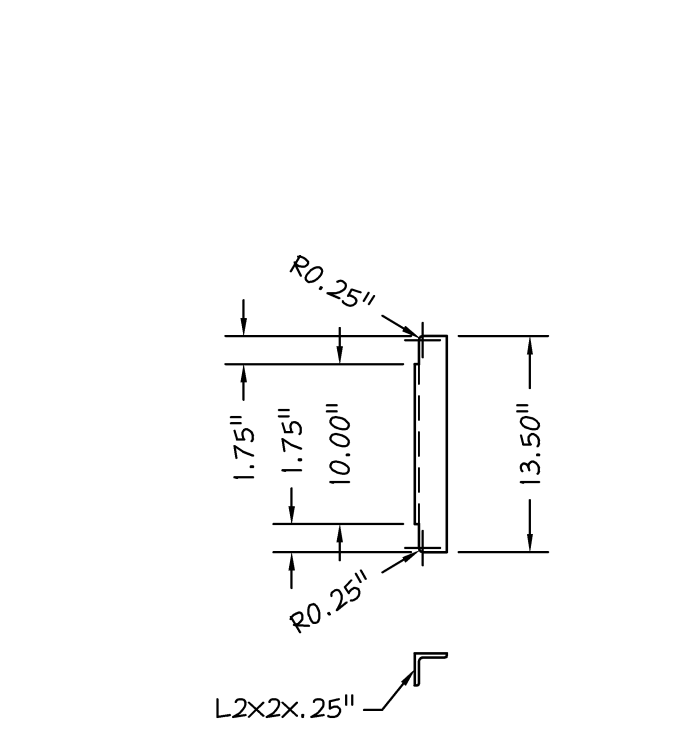
4 DRIVE CAGE
102 Scale: 1" = 1'-0"



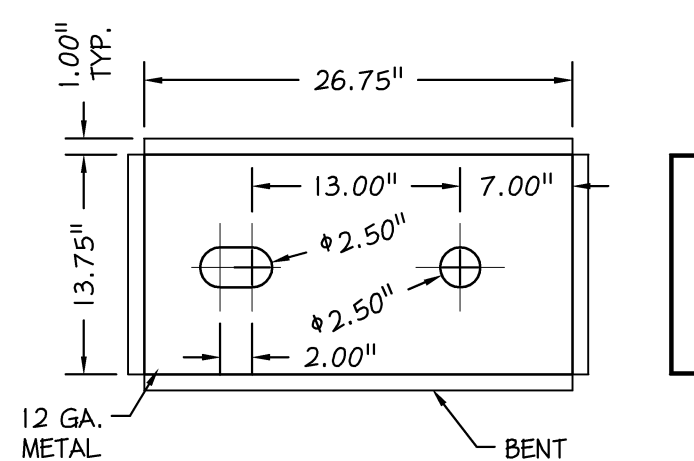
PART #100-019A
Scale: 1" = 1'-0"



PART #100-019B
Scale: 1" = 1'-0"



PART #100-019C
Scale: 1" = 1'-0"



PART #100-018Y
Scale: 1" = 1'-0"

PUGMILL EQUIPMENT LAYOUT (TYPICAL CONFIGURATION)

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DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 102

PREPARED BY: PREPARED FOR:

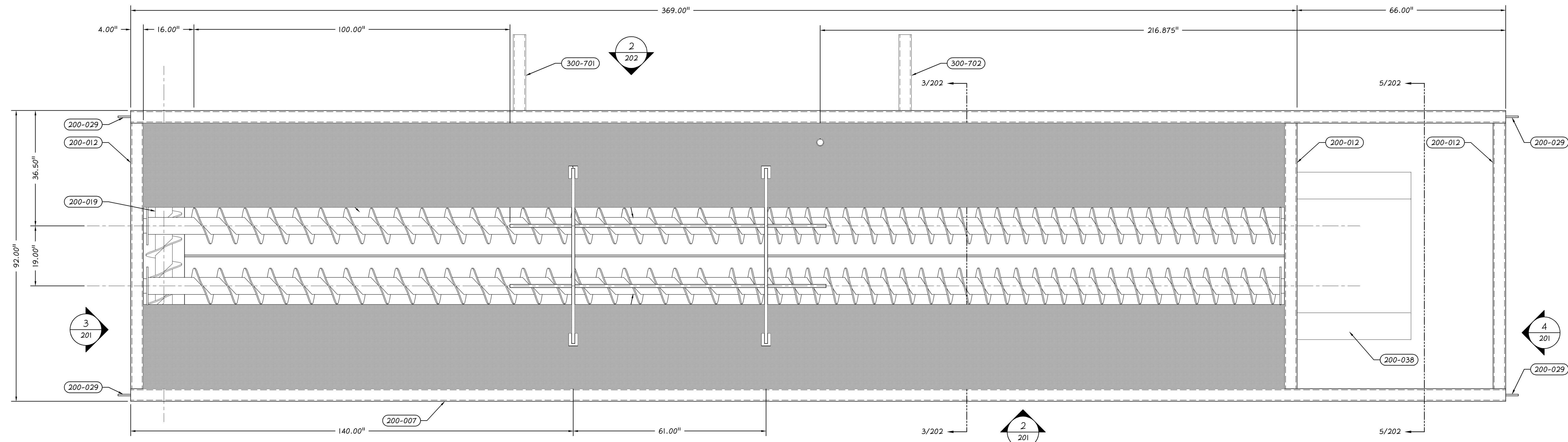
Betzwood AssociatesPC
Architects & Engineers

Robin J. Kohn, AIA
Regis W. Kubit, PE

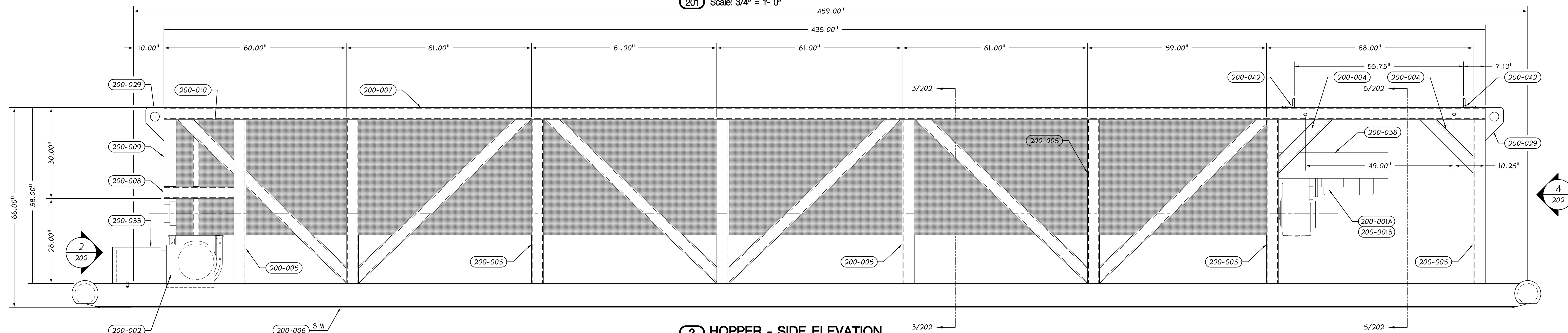
523 Kimberton Road, Suite 118 Phoenixville, PA 19380
tel: (610) 977-8831 fax: (610) 977-8834
email: mail@betzwood.com http://www.betzwood.com

SUSQUEHANNA SERVICES, INC.

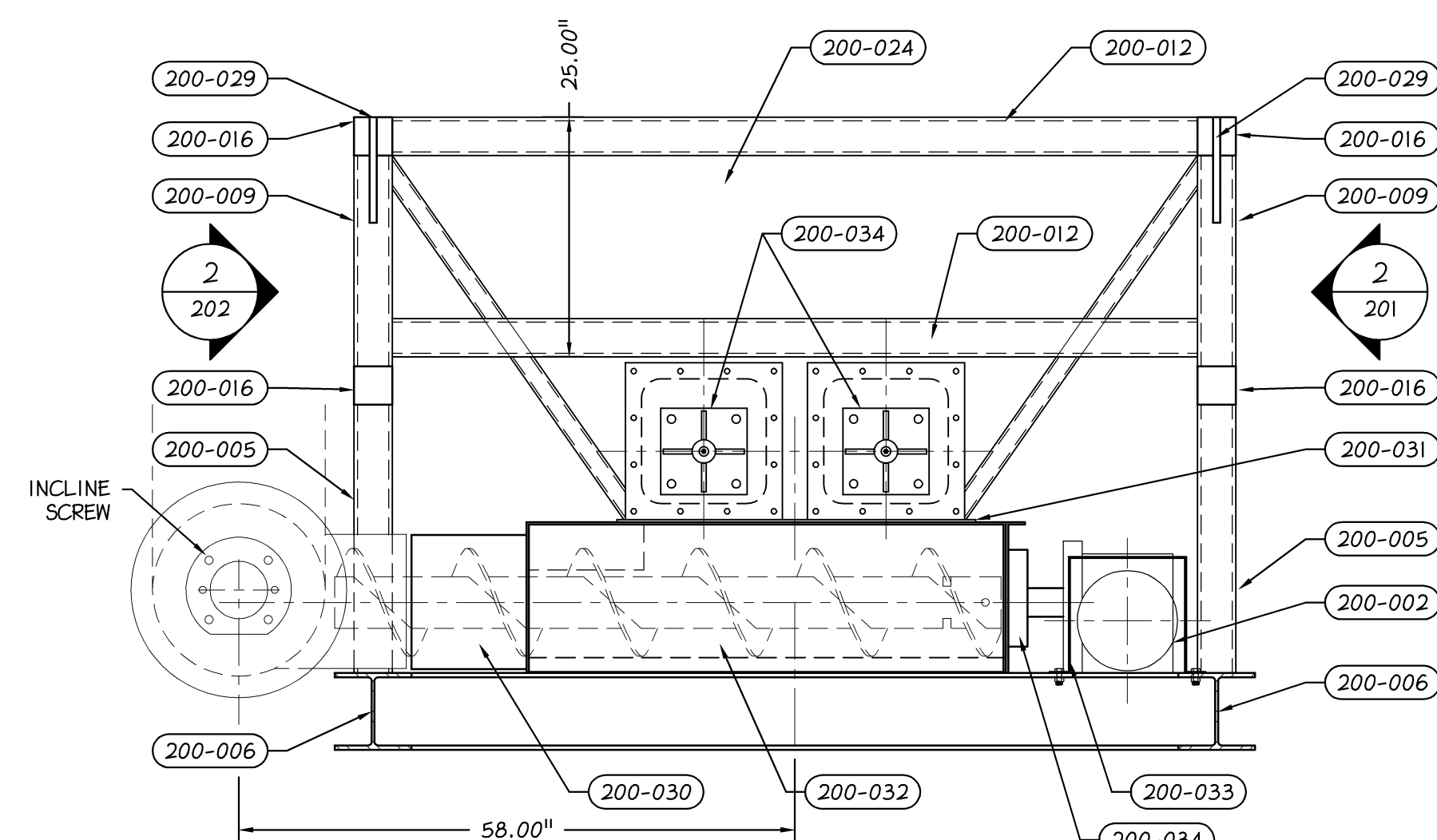
REVIEW SET 01-28-2014



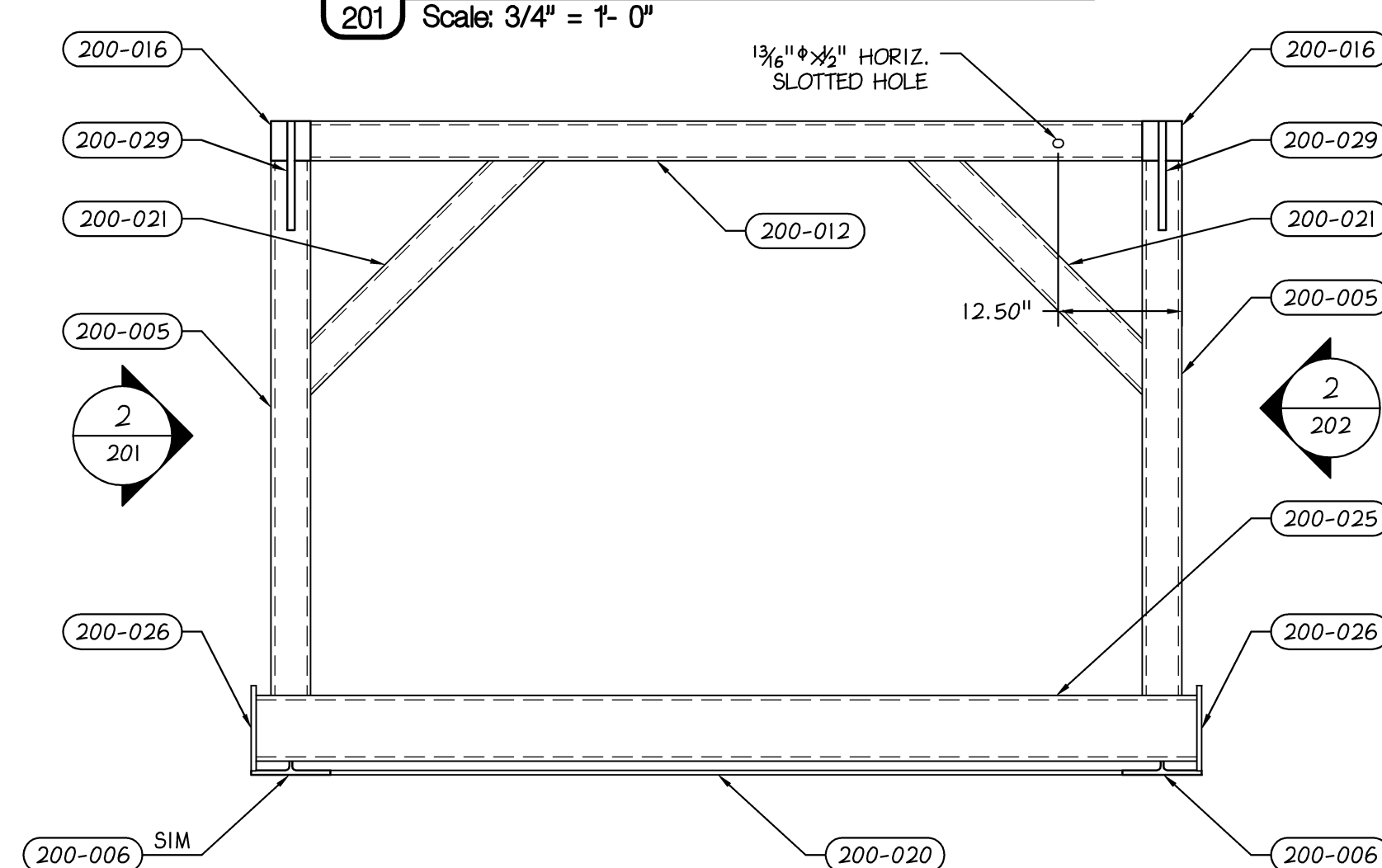
1 HOPPER - PLAN
201 Scale: 3/4" = 1'- 0"



2 HOPPER - SIDE ELEVATION
201 Scale: 3/4" = 1'- 0"



3 HOPPER - SIDE ELEVATION
201 Scale: 3/4" = 1'- 0"



4 HOPPER - SIDE ELEVATION
201 Scale: 3/4" = 1'- 0"

- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
 - SPC-3 POWER TOOL CLEAN
 - (1) COAT RED OXIDE PRIME
 - (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS. (COLOR TBD BY SUSQUEHANNA SERVICES)
 - DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED)
 - FRACTIONAL $\pm 0.015625"$; ANGULAR $\pm .25"$.
 - DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 - ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.

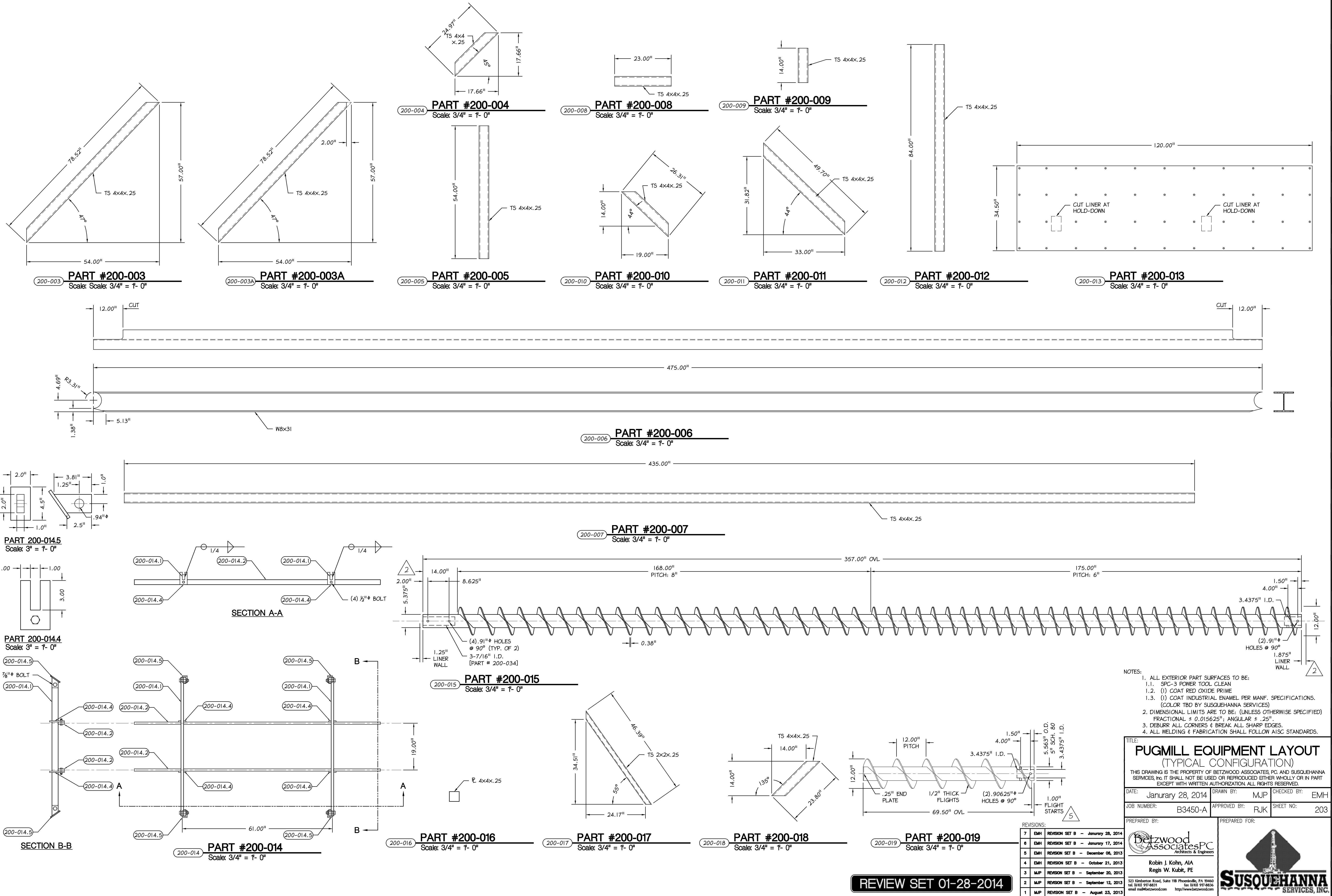
TITLE:			
PUGMILL EQUIPMENT LAYOUT (TYPICAL CONFIGURATION)			
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DATE:	January 28, 2014	DRAWN BY:	MJP
JOB NUMBER:	B3450-A	CHECKED BY:	EMH
APPROVED BY:	RJK	SHEET NO.:	201

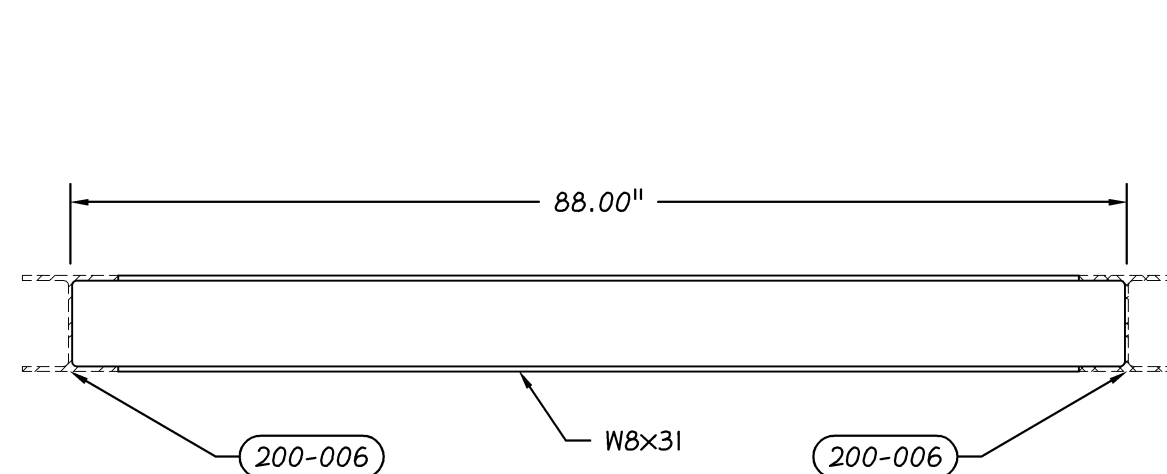
PREPARED BY: **Betzwood AssociatesPC**
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
523 Kimberton Road, Suite 118 Phoenixville, PA 19380
tel: (610) 977-8833 fax: (610) 977-8834 email: mail@betzwood.com http://www.betzwood.com

PREPARED FOR: **SUSQUEHANNA SERVICES, INC.**

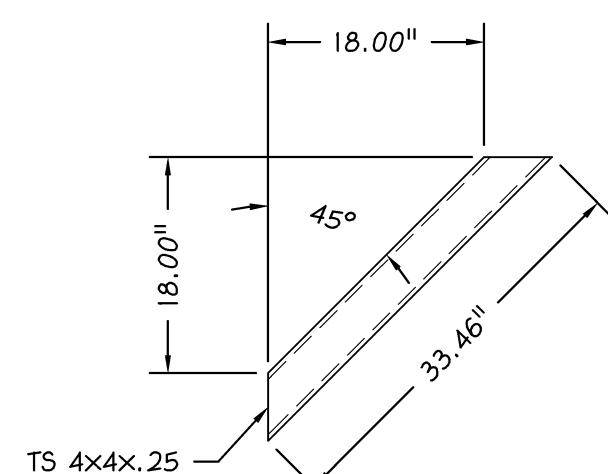
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6	EMH	REVISION SET B - January 17, 2014	
5	EMH	REVISION SET B - December 06, 2013	
4	EMH	REVISION SET B - October 21, 2013	
3	MJP	REVISION SET B - September 20, 2013	
2	MJP	REVISION SET B - September 12, 2013	
1	MJP	REVISION SET B - August 23, 2013	

REVIEW SET 01-28-2014

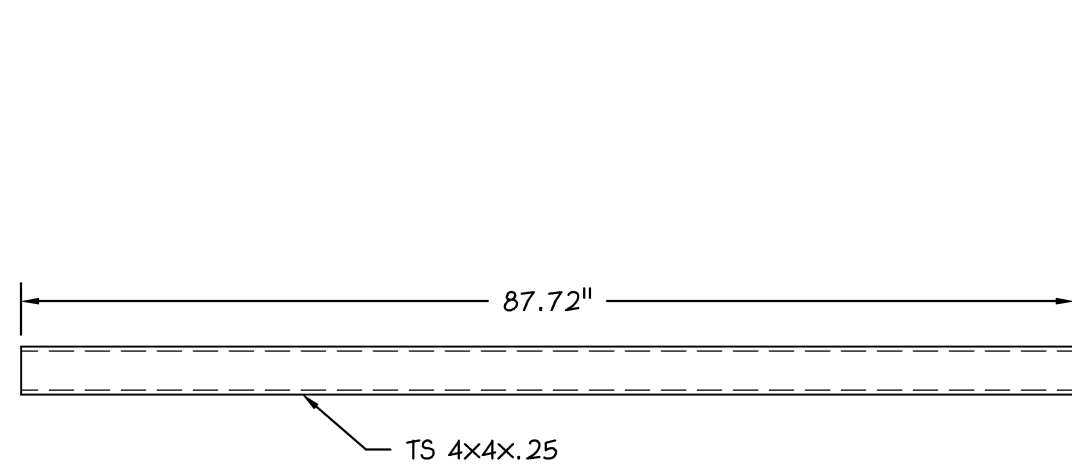




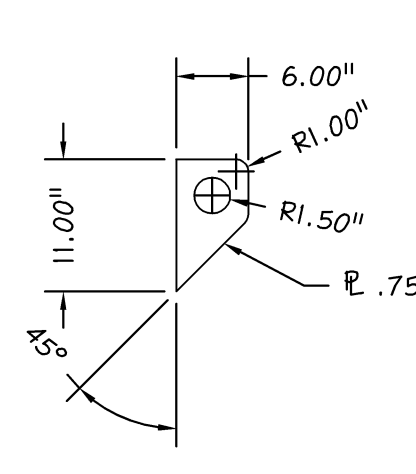
PART #200-020
Scale: 3/4" = 1'- 0"



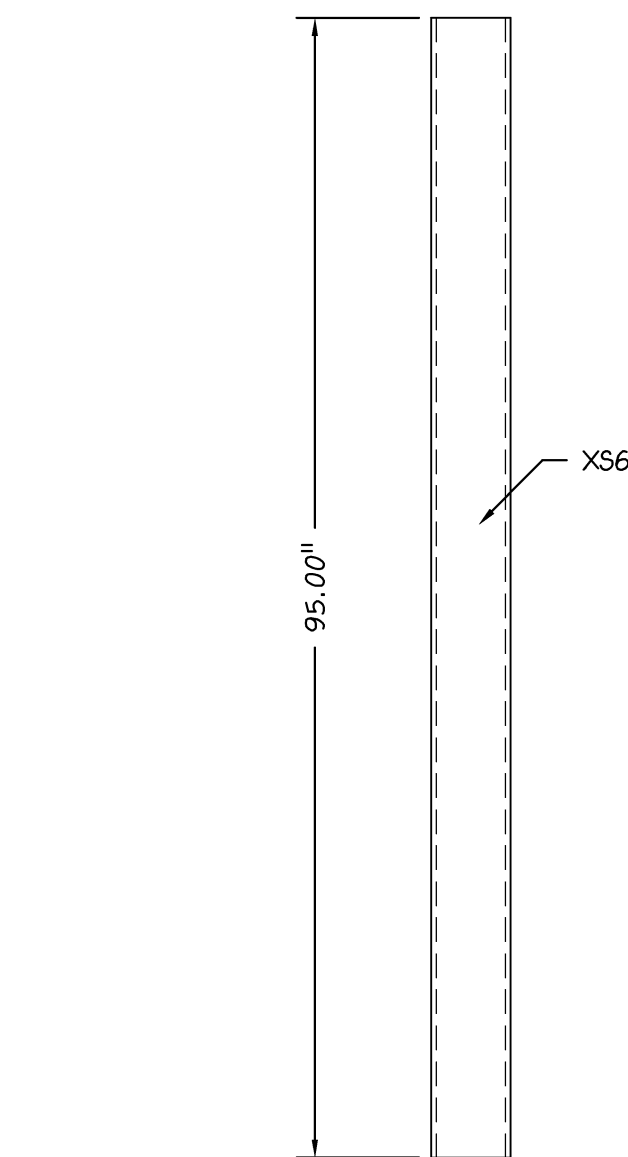
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Scale: 3/4" = 1'- 0"



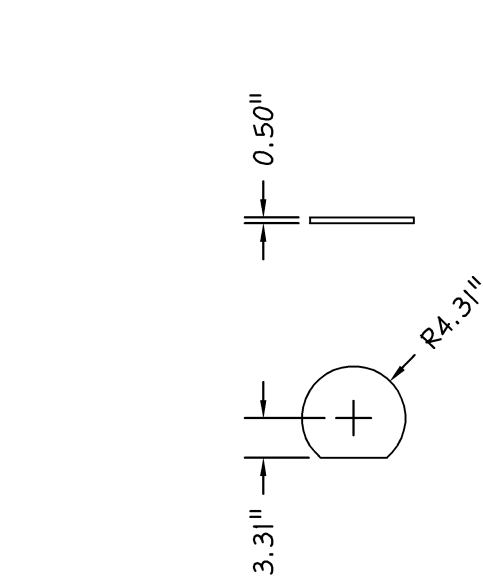
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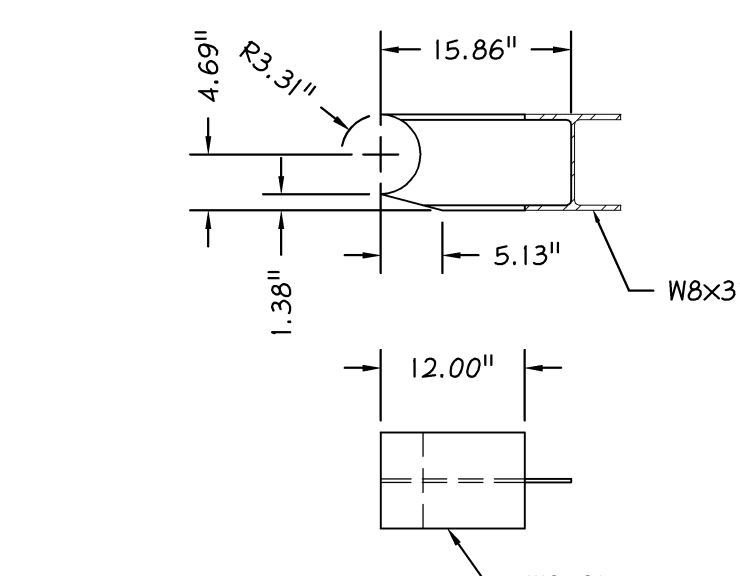
PART #200-029
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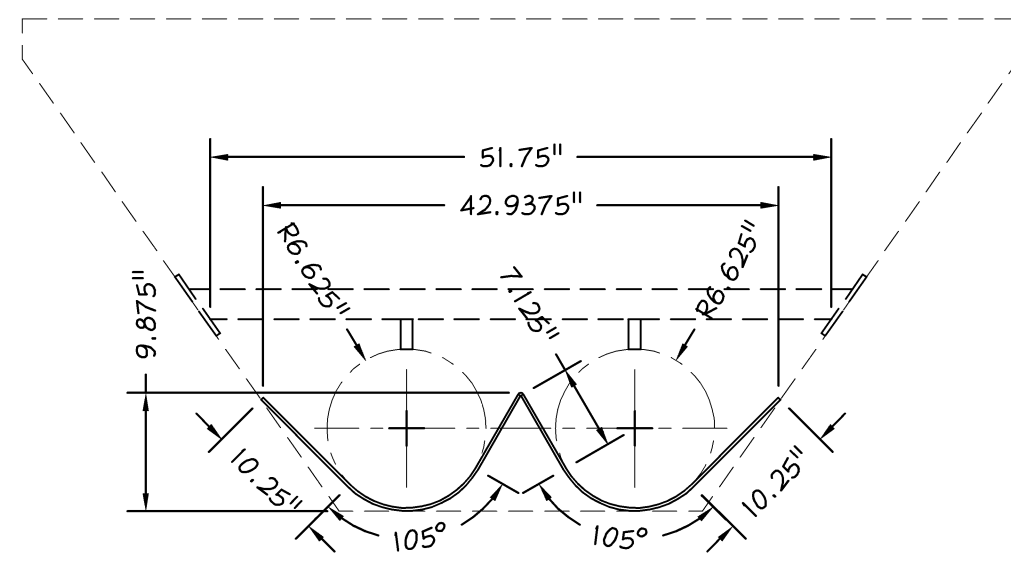
PART #200-025
Scale: 3/4" = 1'- 0"



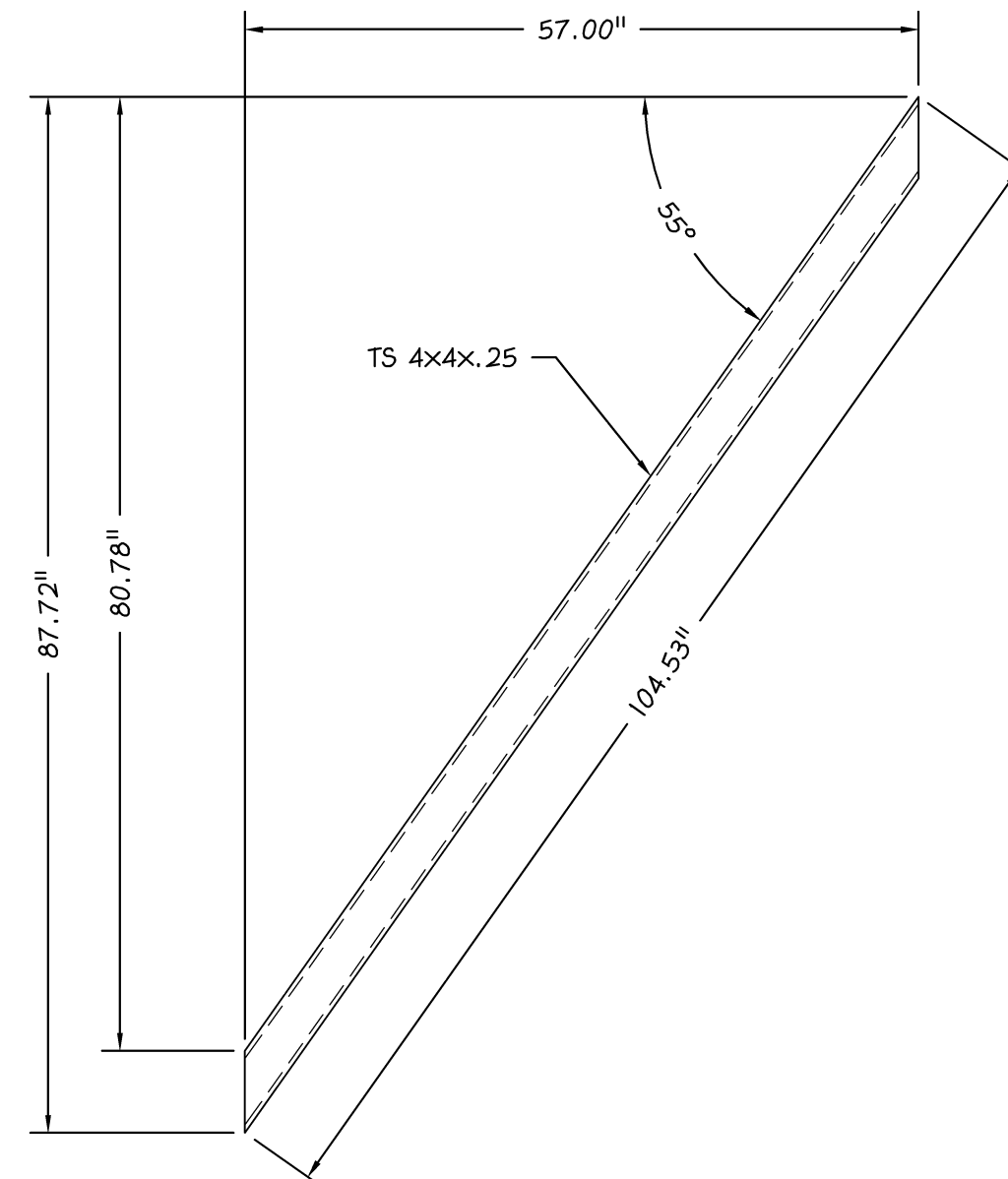
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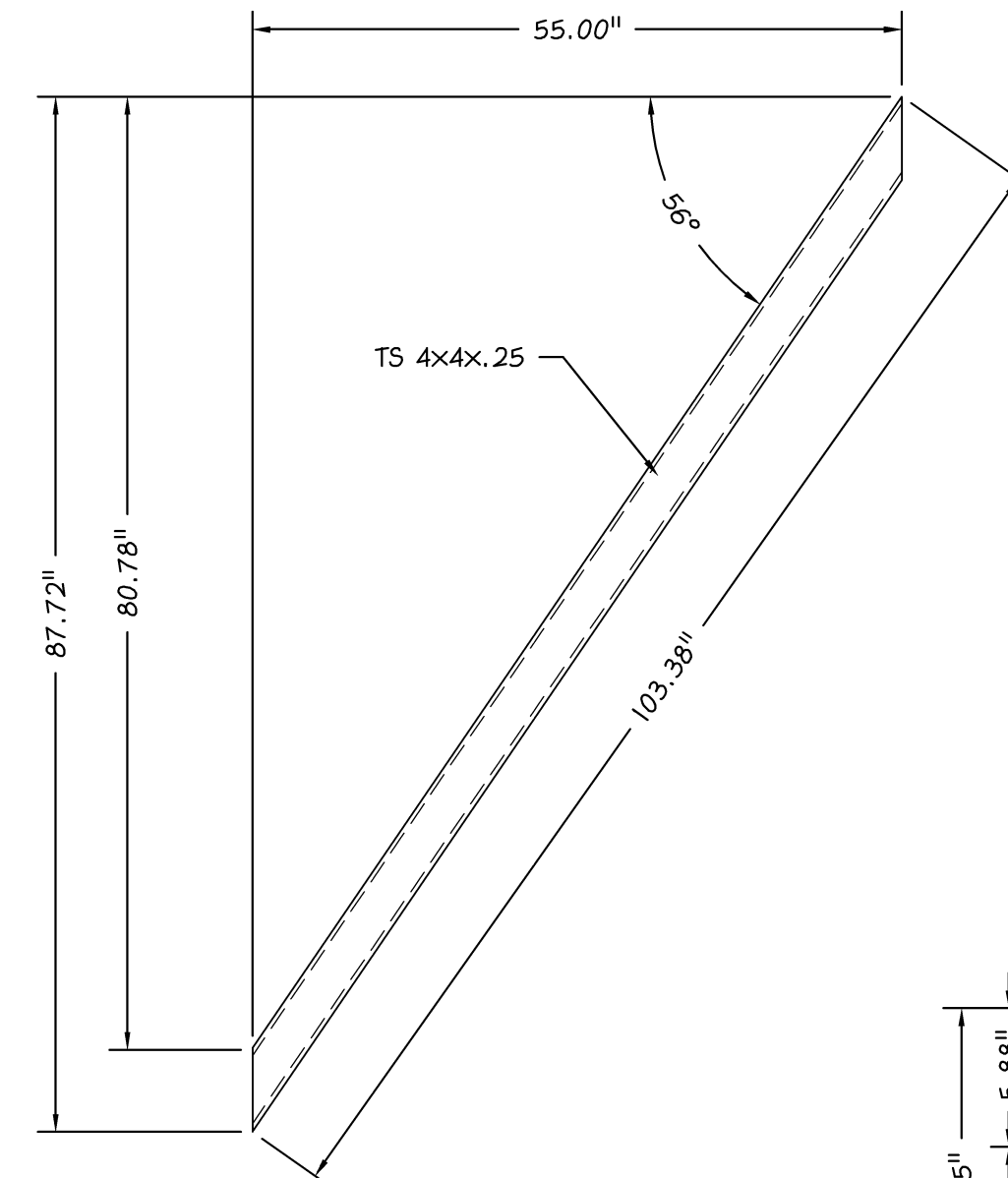
PART #200-027
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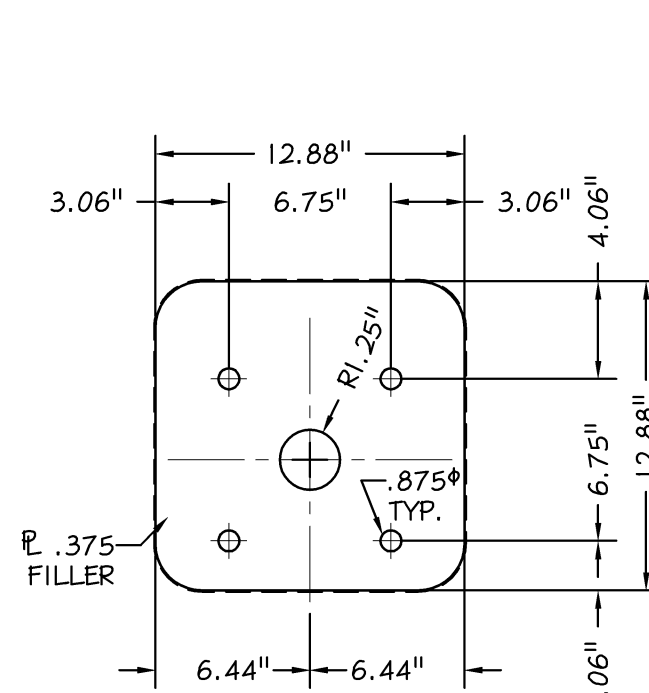
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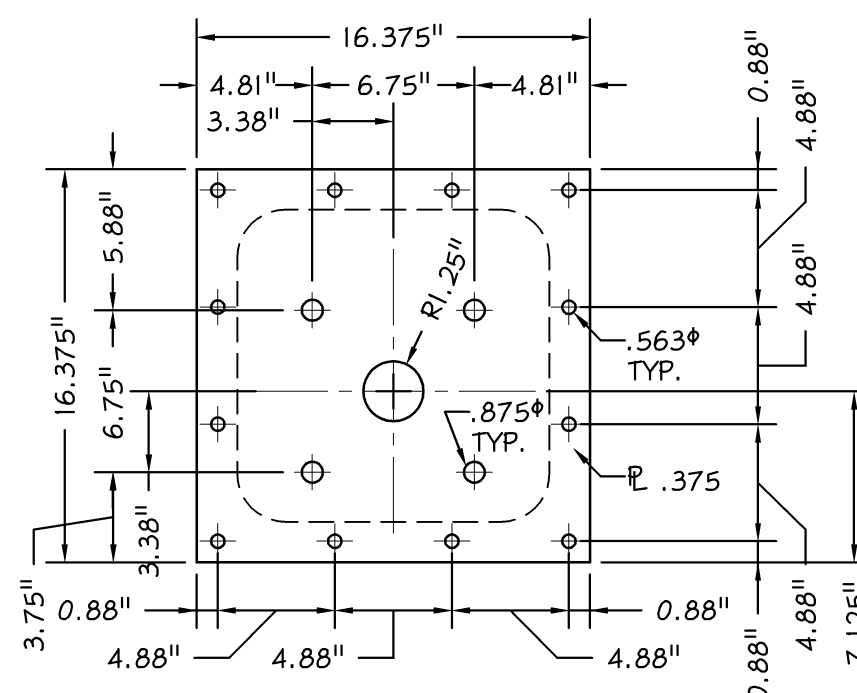
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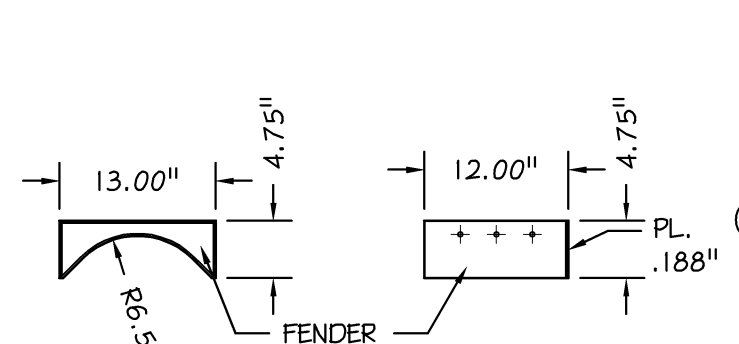
PART #200-023A
Scale: 3/4" = 1'- 0"



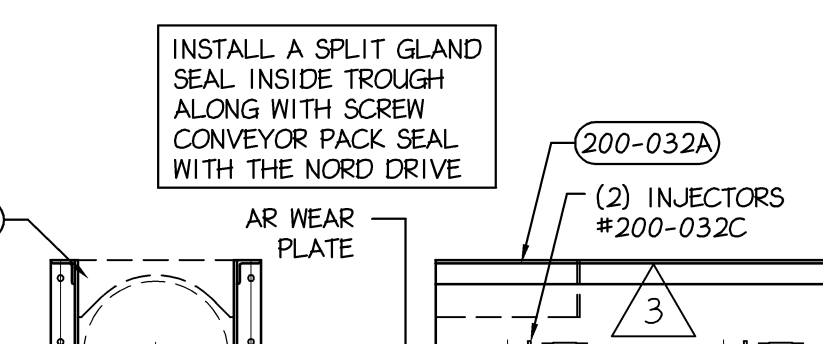
DETAIL #2
PART #200-024B



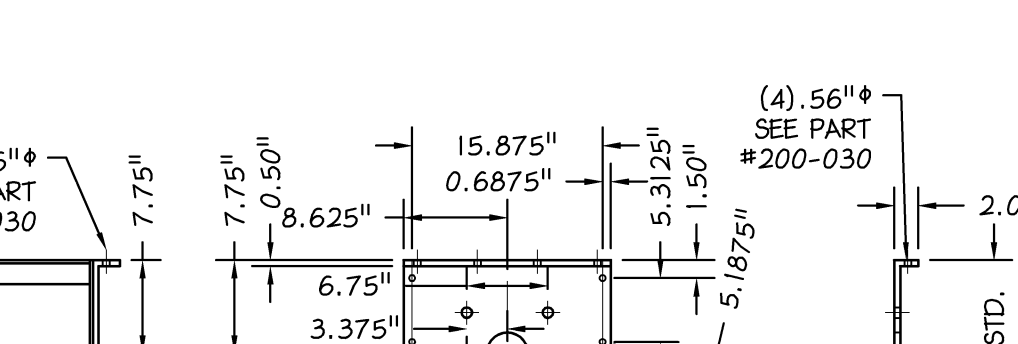
DETAIL #1
PART #200-024A



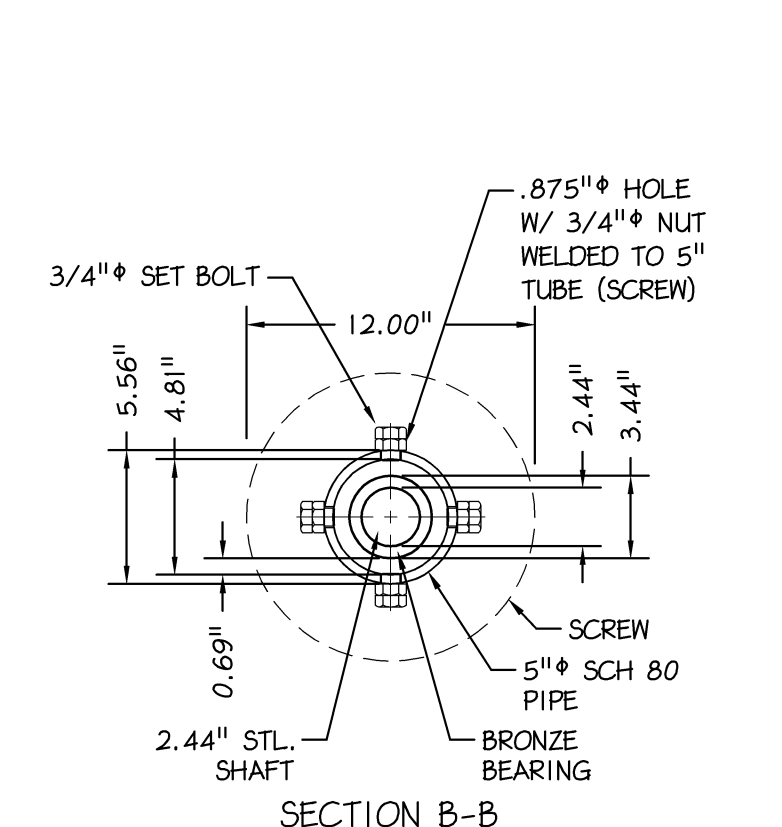
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Scale: 3/4" = 1'- 0"



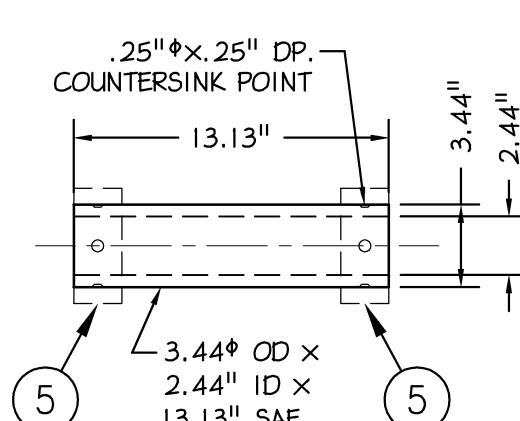
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Scale: 3/4" = 1'- 0"



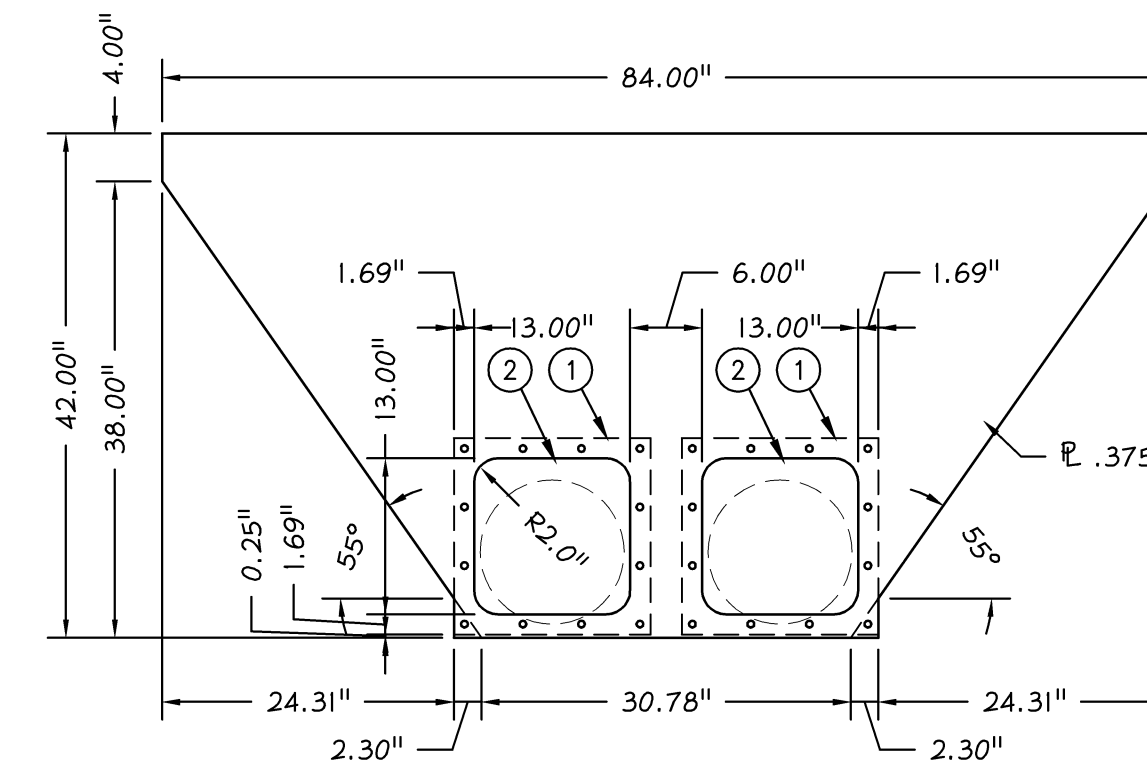
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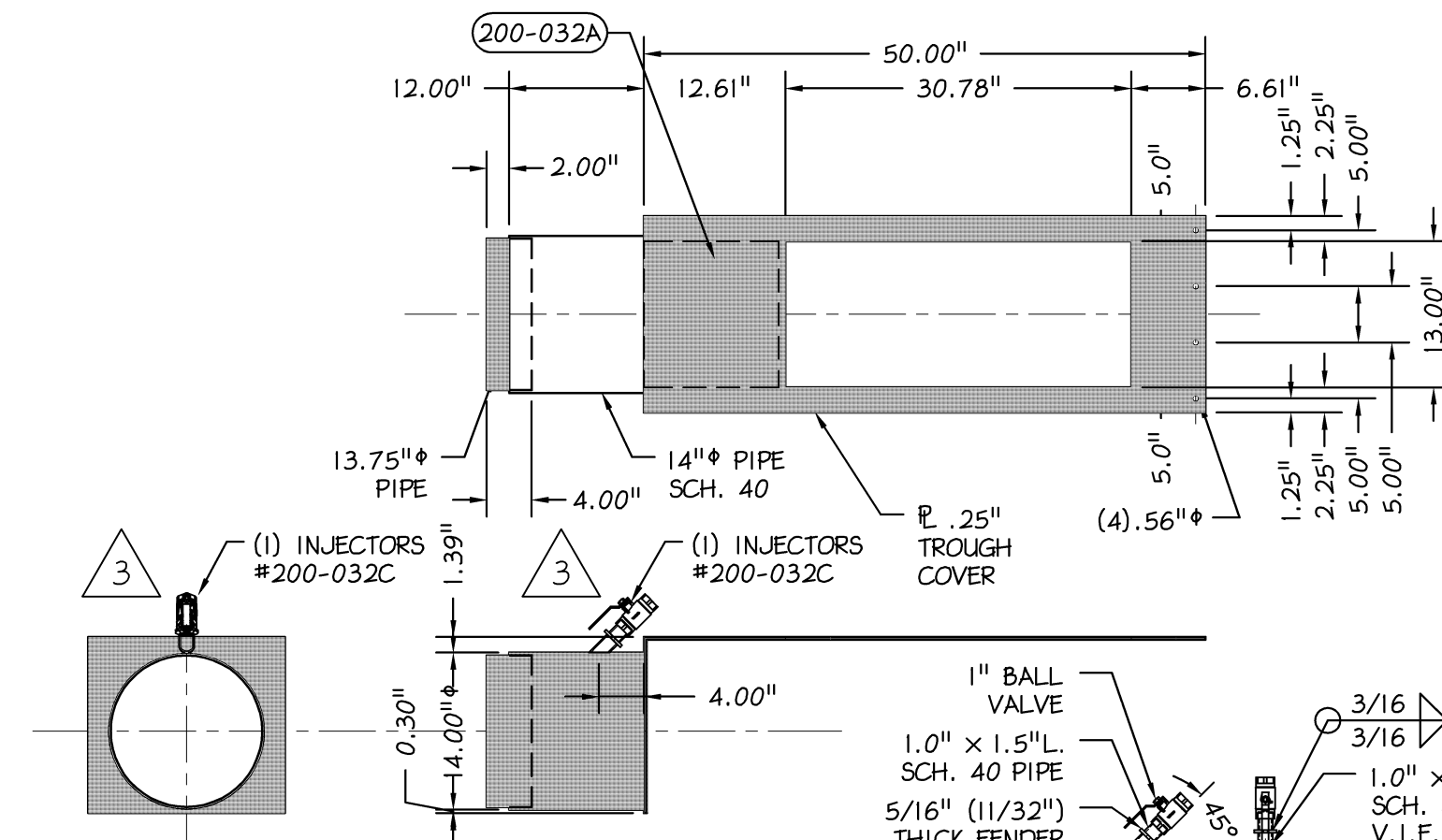
SECTION B-B



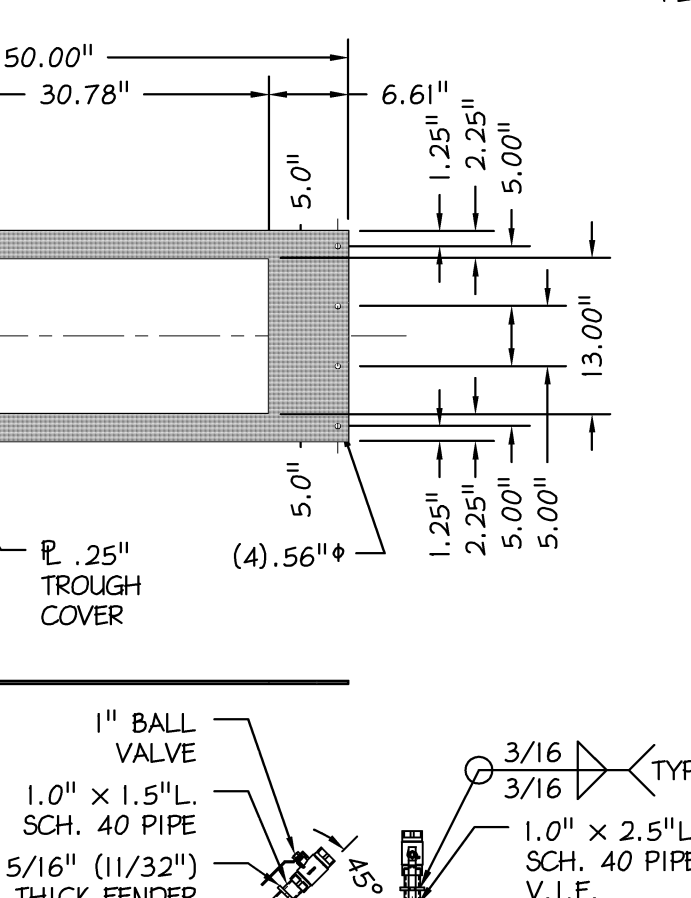
DETAIL #4
PART #200-034B



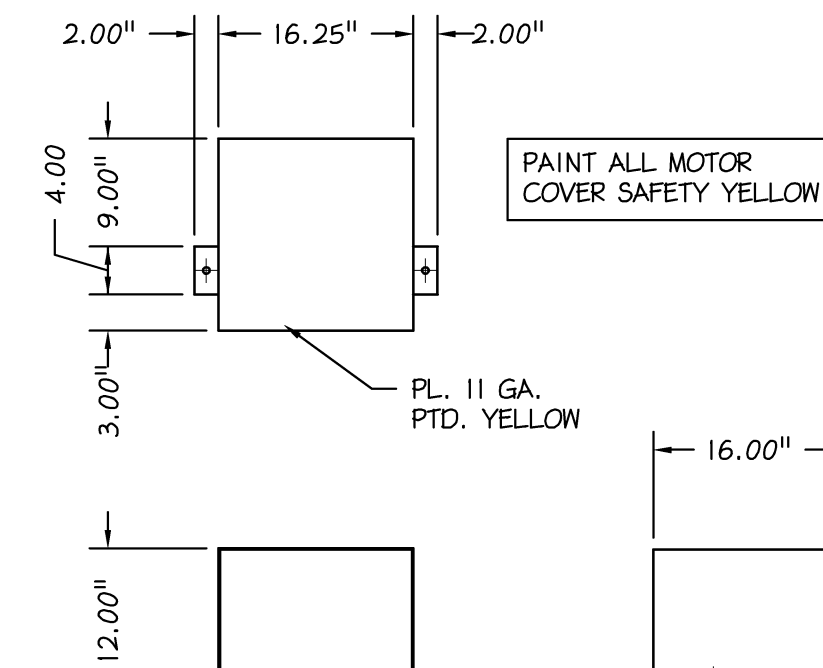
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Scale: 3/4" = 1'- 0"



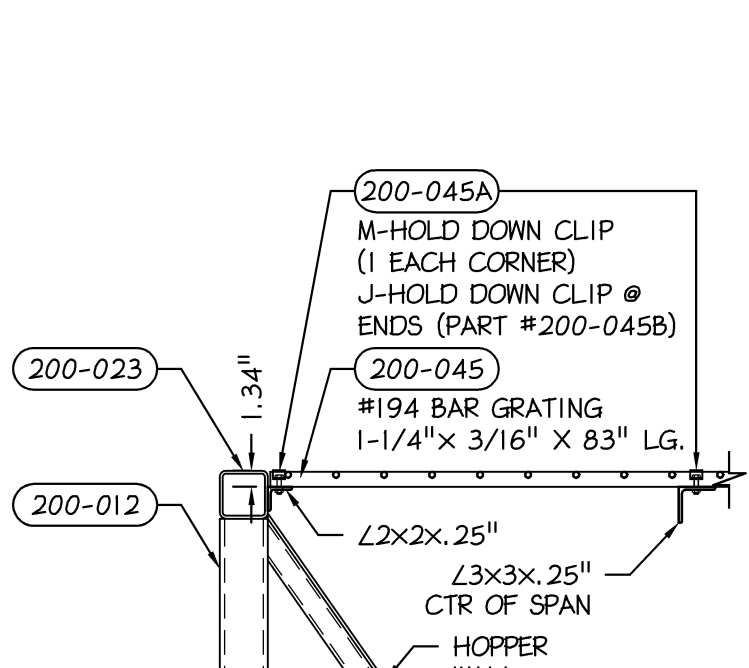
PART #200-030
Scale: 3/4" = 1'- 0"



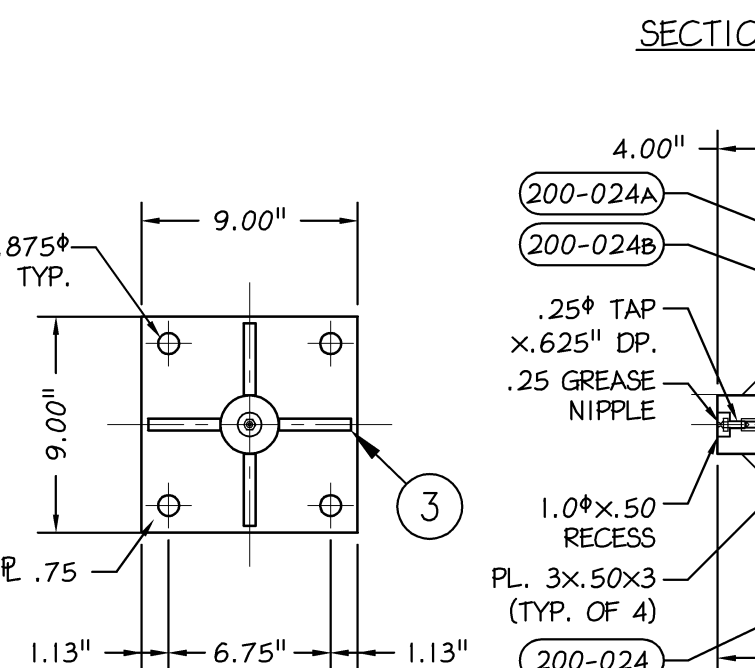
PART #200-032C
Scale: 3/4" = 1'- 0"



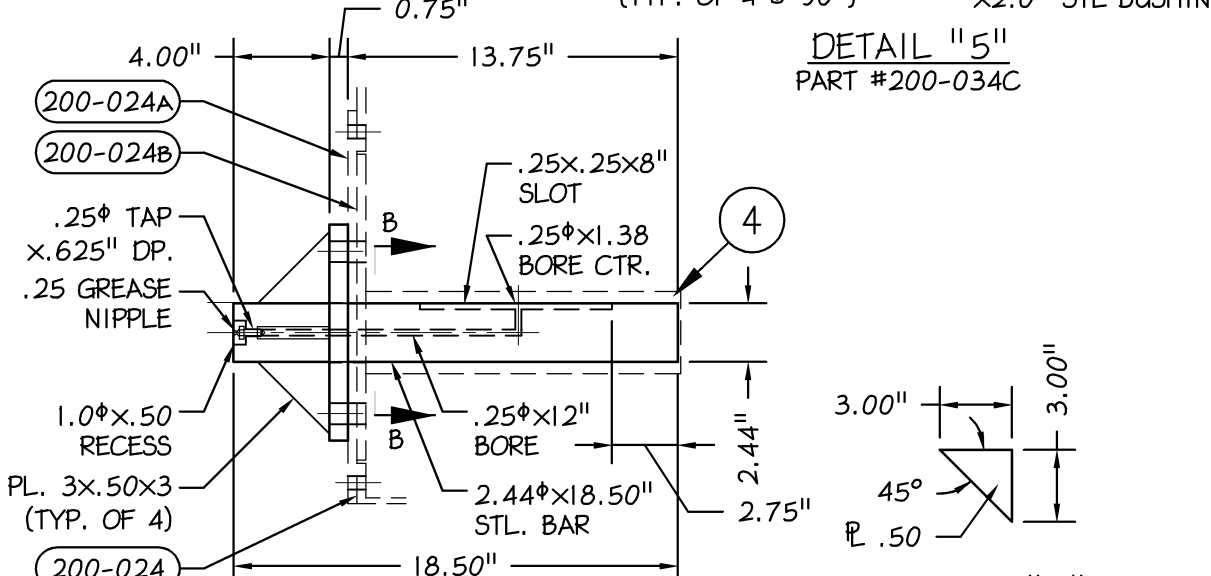
PART #200-033
Scale: 3/4" = 1'- 0"



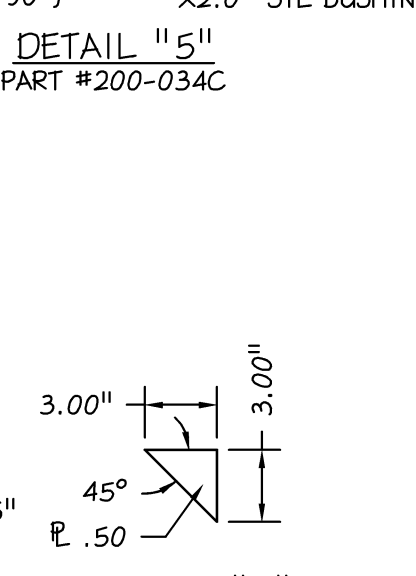
PART #200-044
Scale: 3/4" = 1'- 0"



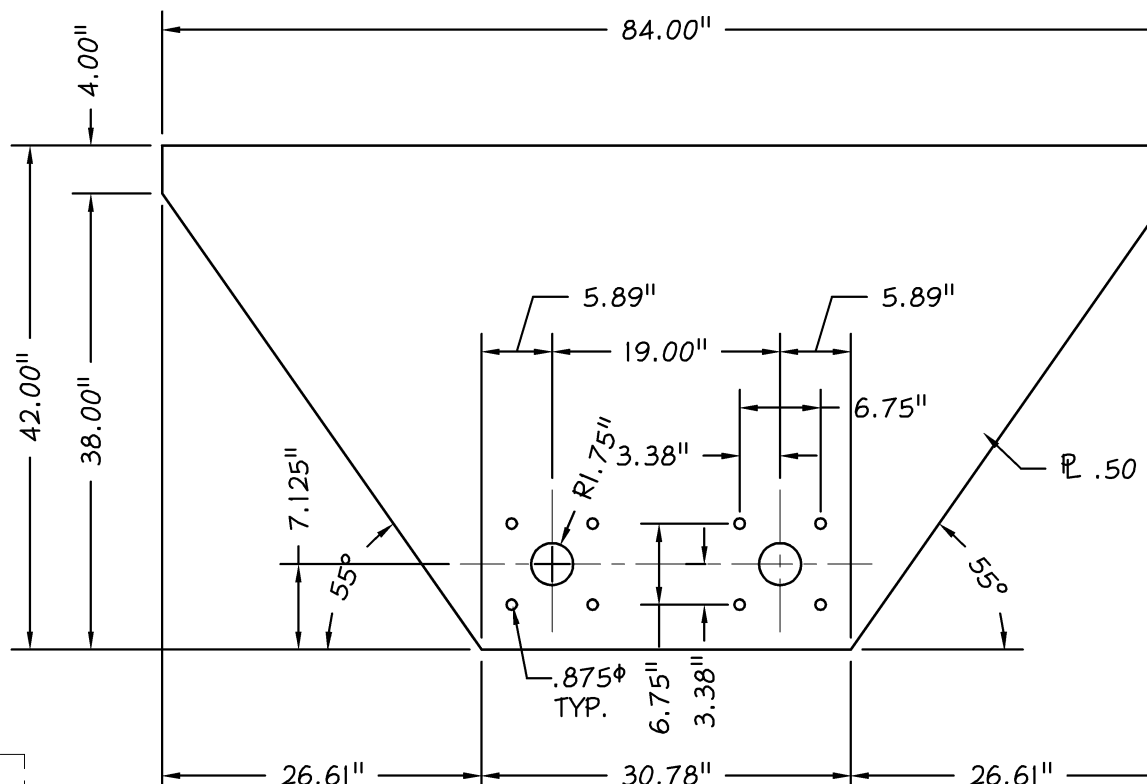
PART #200-034
Scale: 1 1/2" = 1'- 0"



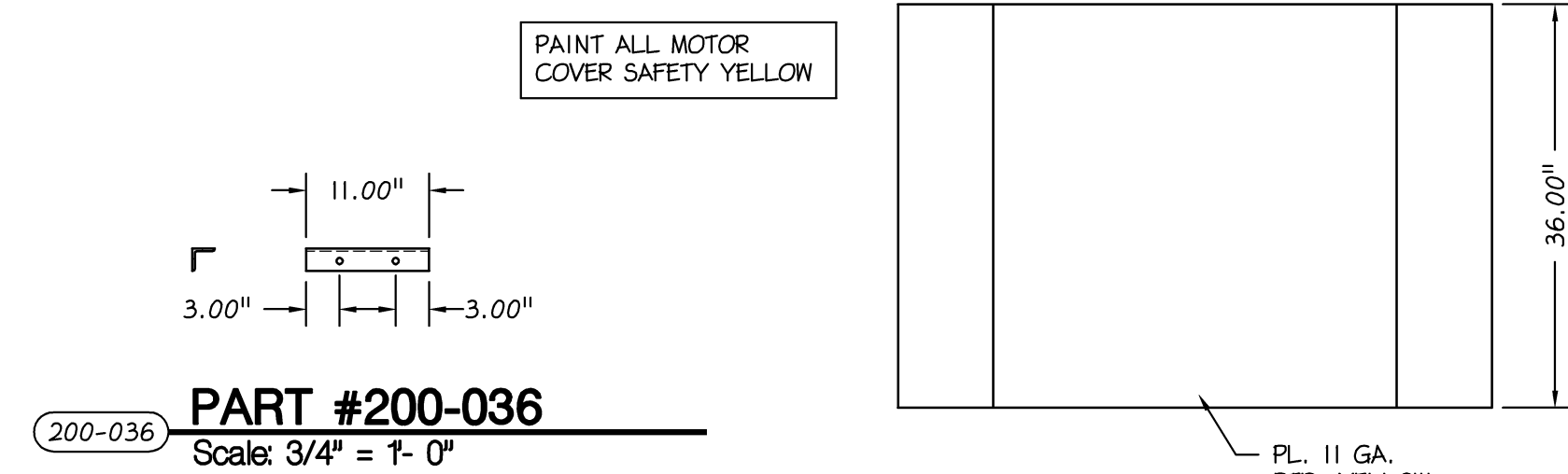
ELEVATION



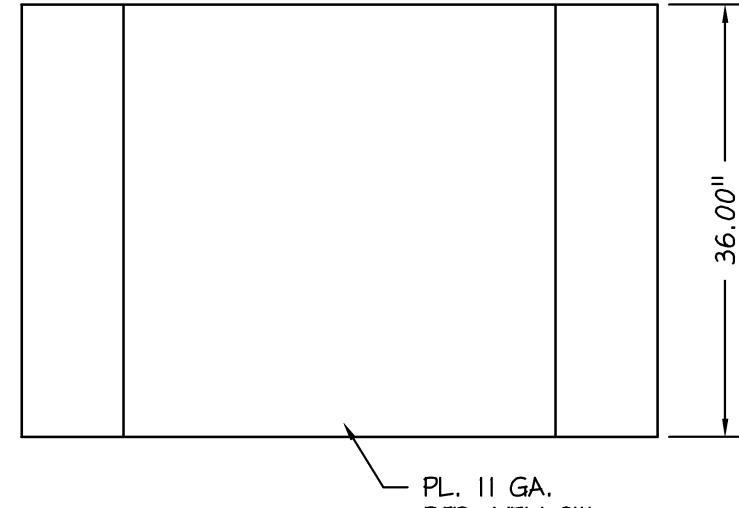
DETAIL #5
PART #200-034C



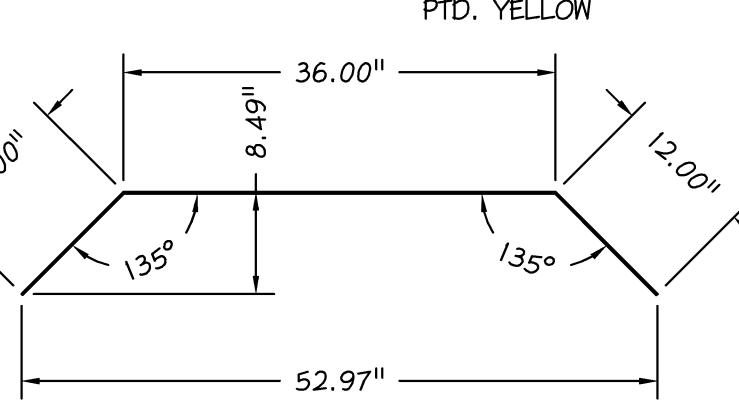
PART #200-035
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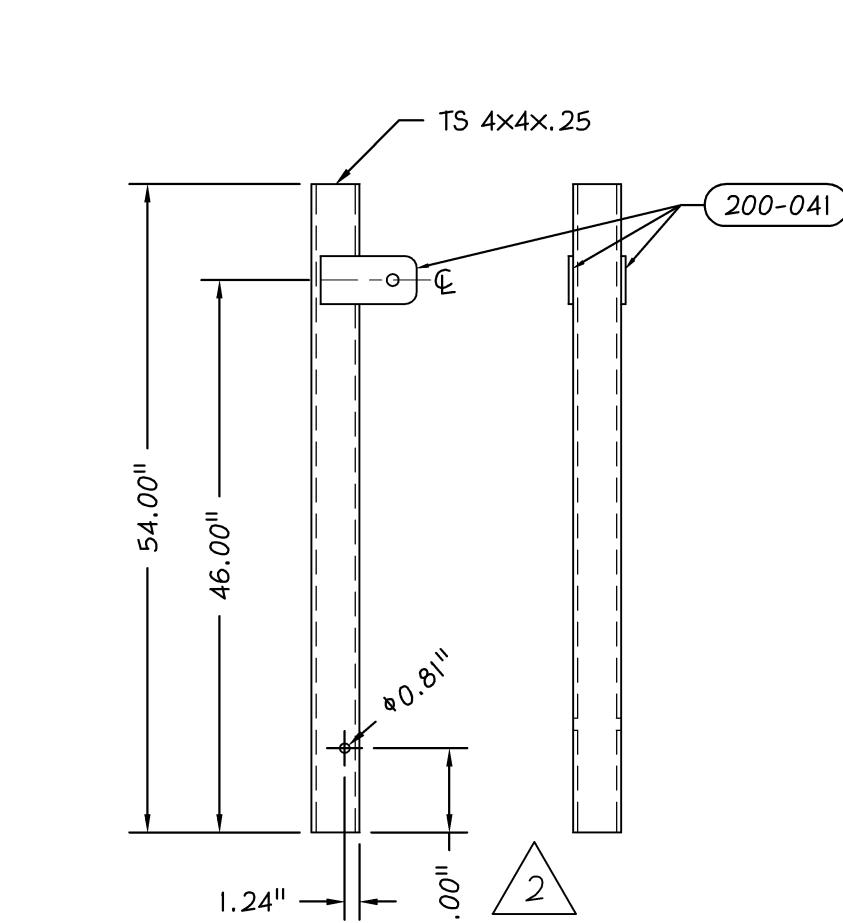
PART #200-036
Scale: 3/4" = 1'- 0"



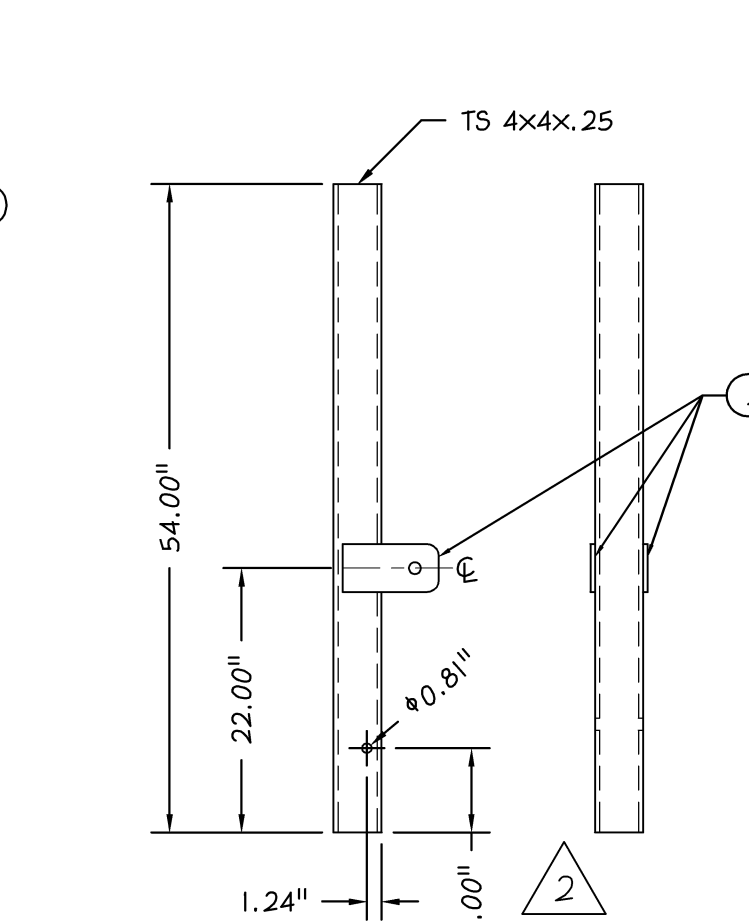
PART #200-037
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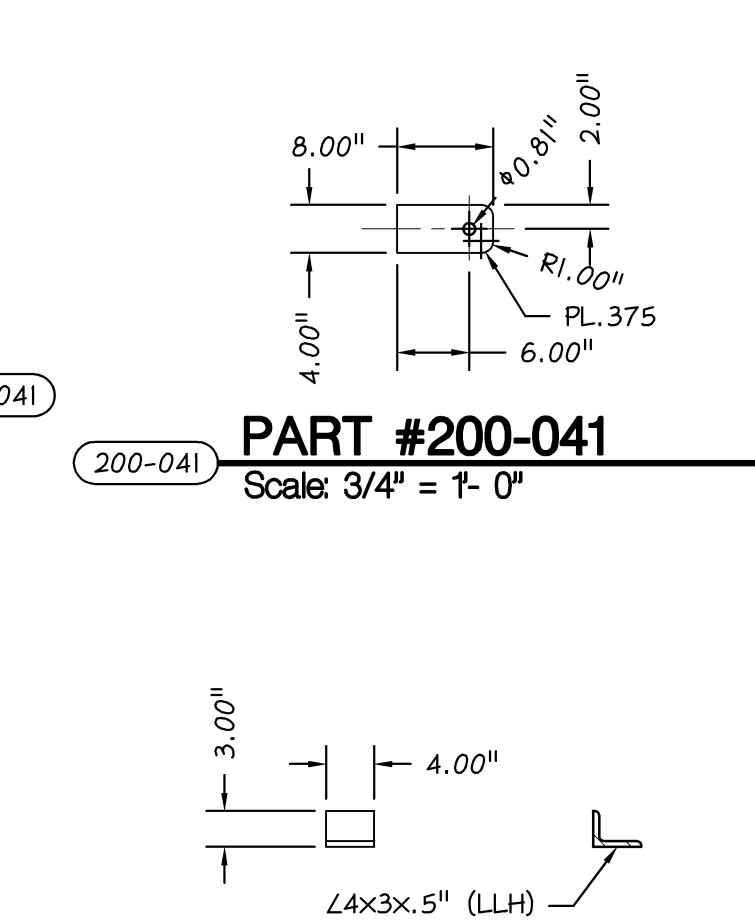
PART #200-038
Scale: 3/4" = 1'- 0"



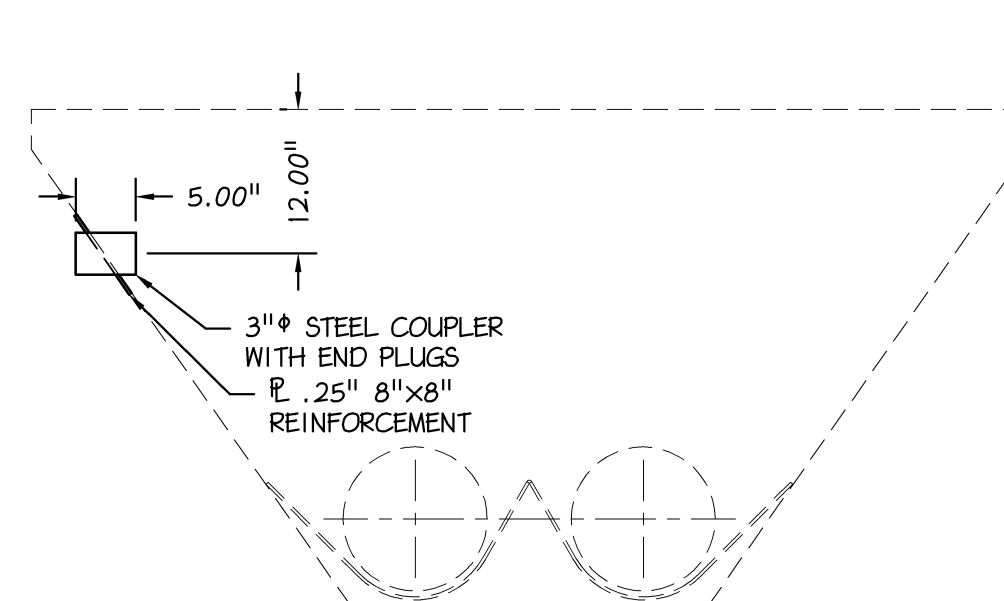
PART #200-039
Scale: 3/4" = 1'- 0"



PART #200-040
Scale: 3/4" = 1'- 0"



PART #200-042
Scale: 3/4" = 1'- 0"



PART #200-043
Scale: 3/4" = 1'- 0"

REVISIONS:		
7	EMH	REVISION SET B - January 28, 2014
6	EMH	REVISION SET B - January 17, 2014
5	EMH	REVISION SET B - December 06, 2013
4	EMH	REVISION SET B - October 21, 2013
3	MJP	REVISION SET B - September 20, 2013
2	MJP	REVISION SET B - September 12, 2013
1	MJP	REVISION SET B - August 23, 2013

REVIEW SET 01-28-2014

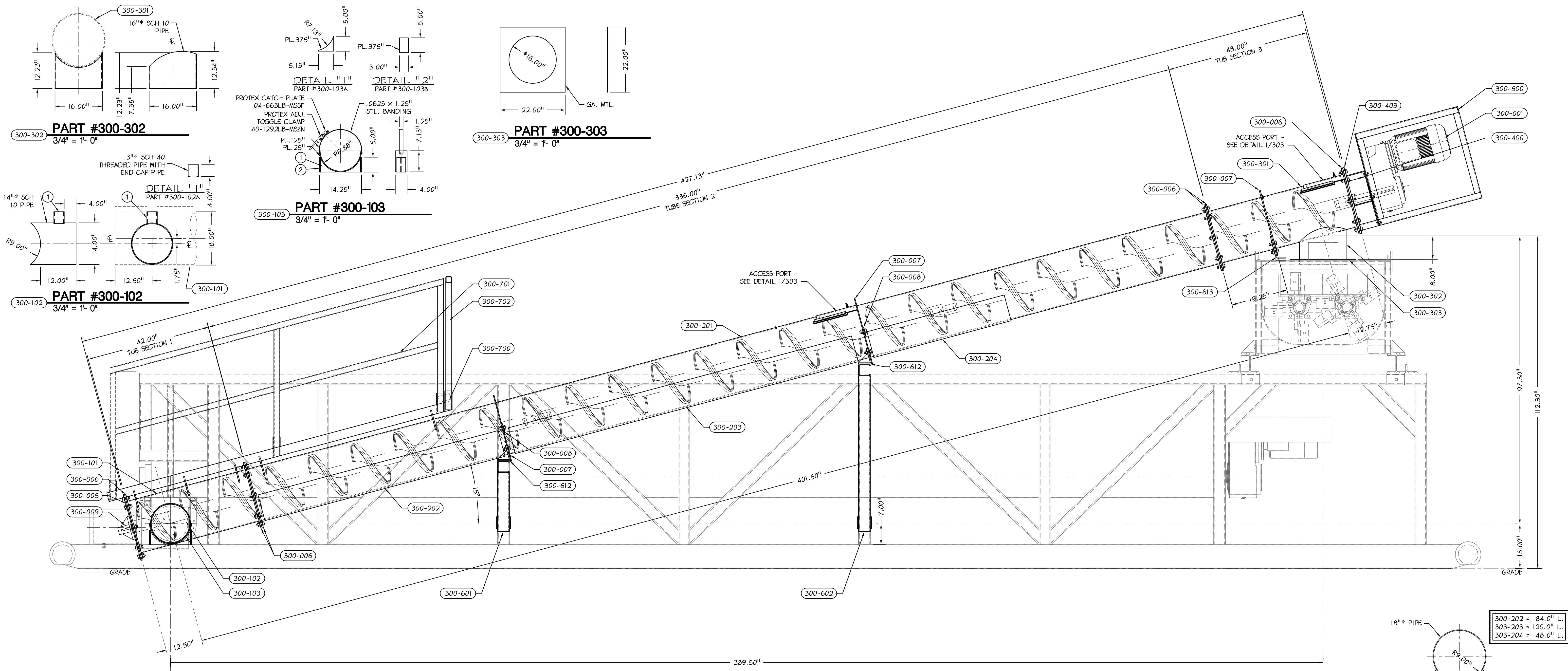
PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

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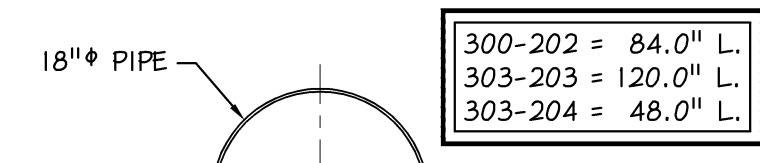
DATE:	January 28, 2014	DRAWN BY:	MJP	CHECKED BY:	EMH
JOB NUMBER:	B3450-A	APPROVED BY:	RJK	SHEET NO.:	204

PREPARED BY: **Betzwood AssociatesPC**
Architects & Engineers
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email: mail@betzwood.com
http://www.betzwood.com

PREPARED FOR: **SUSQUEHANNA SERVICES, INC.**



1 ELEVATION
301 3/4" = 1'- 0"



PART #300-202
300-202 3/4" = 1'- 0"

PART #300-203
300-203 3/4" = 1'- 0"

PART #300-204
300-204 3/4" = 1'- 0"

- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
 - SPC-3 POWER TOOL CLEAN
 - (1) COAT RED OXIDE PRIME
 - (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS. (COLOR TBD BY SUSQUEHANNA SERVICES)
 - DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED) FRACTIONAL $\pm 0.015625"$; ANGULAR $\pm .25"$.
 - DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 - ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.

TITLE: PUGMILL EQUIPMENT LAYOUT (TYPICAL CONFIGURATION)

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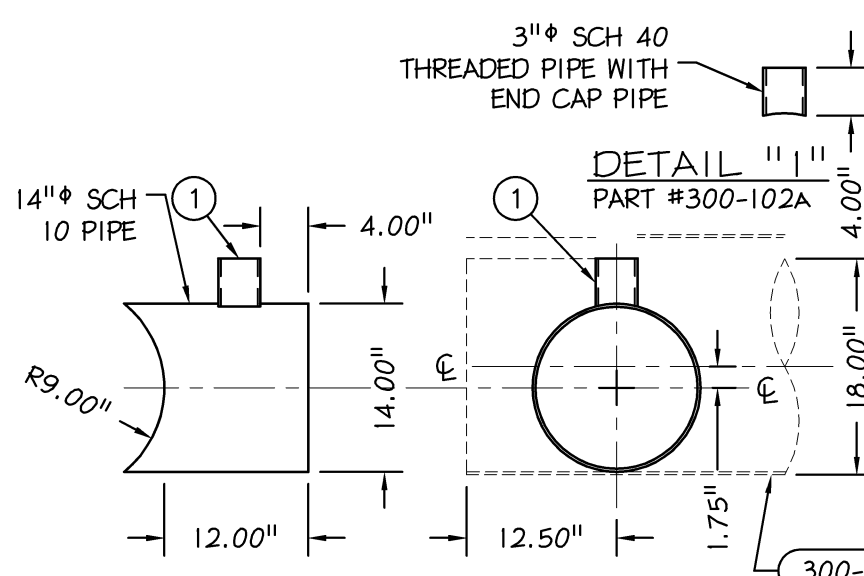
DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 301

PREPARED BY: **Betzwood AssociatesPC**
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

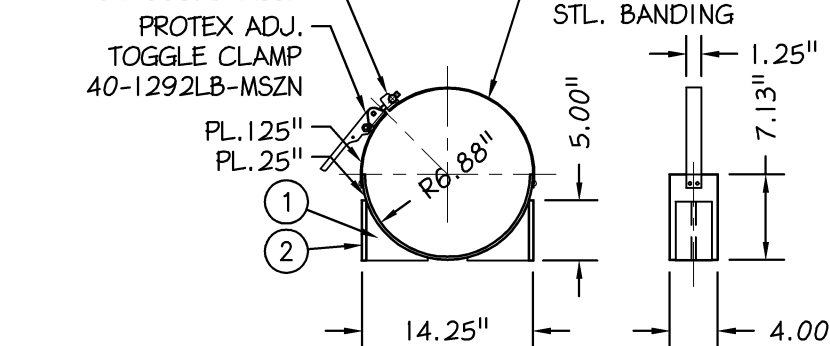
PREPARED FOR: **SUSQUEHANNA SERVICES, INC.**

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tel: (610) 977-0831 fax: (610) 977-0834 email: mail@betzwood.com http://www.betzwood.com

PART #300-302
300-302 3/4" = 1'- 0"



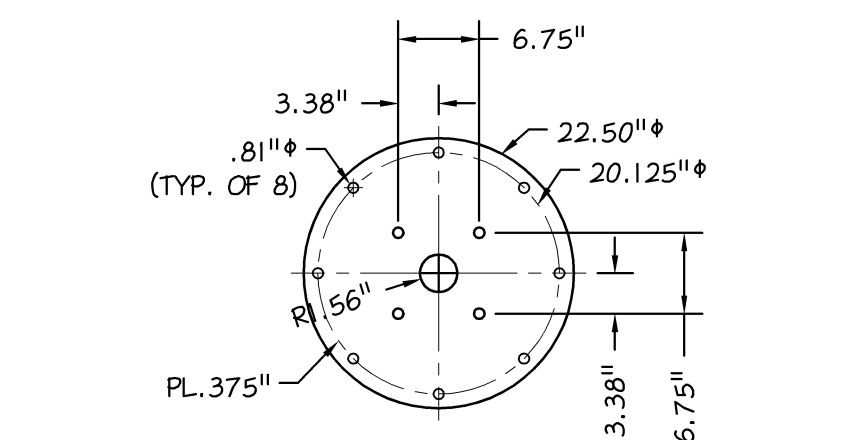
PART #300-103
300-103 3/4" = 1'- 0"



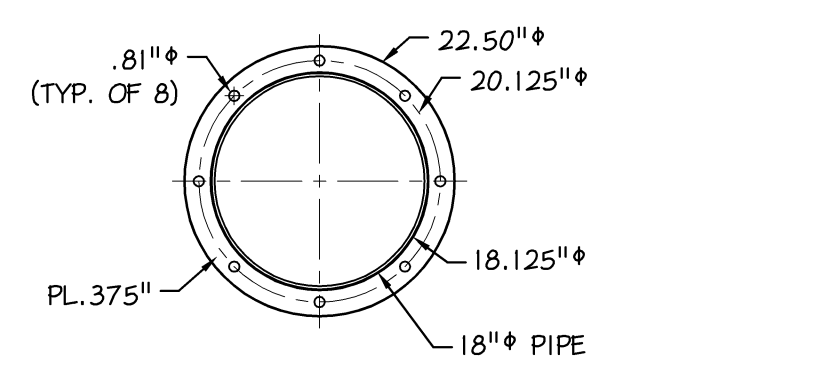
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300-303 3/4" = 1'- 0"



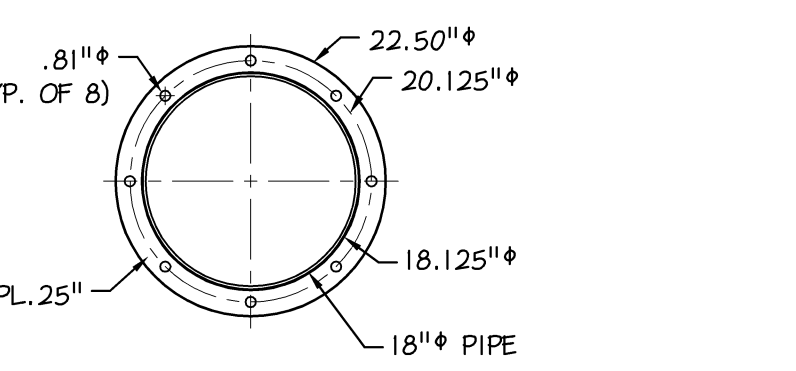
PART #300-102
300-102 3/4" = 1'- 0"



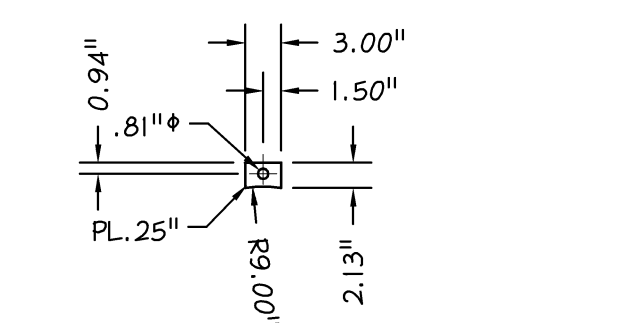
PART #300-005
300-005 3/4" = 1'- 0"



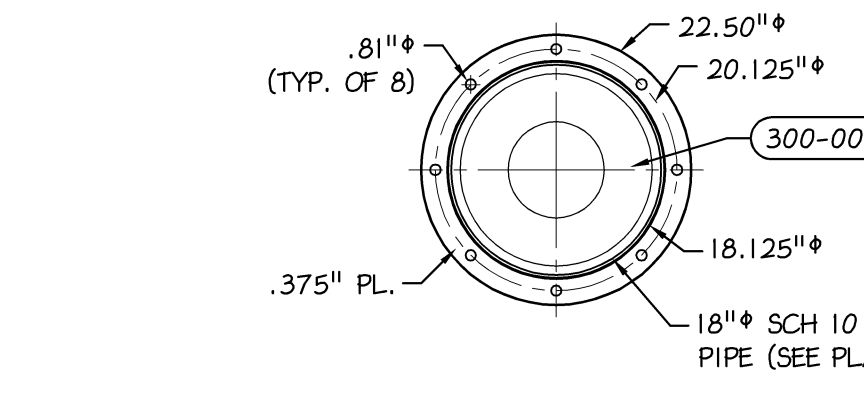
PART #300-006
300-006 3/4" = 1'- 0"



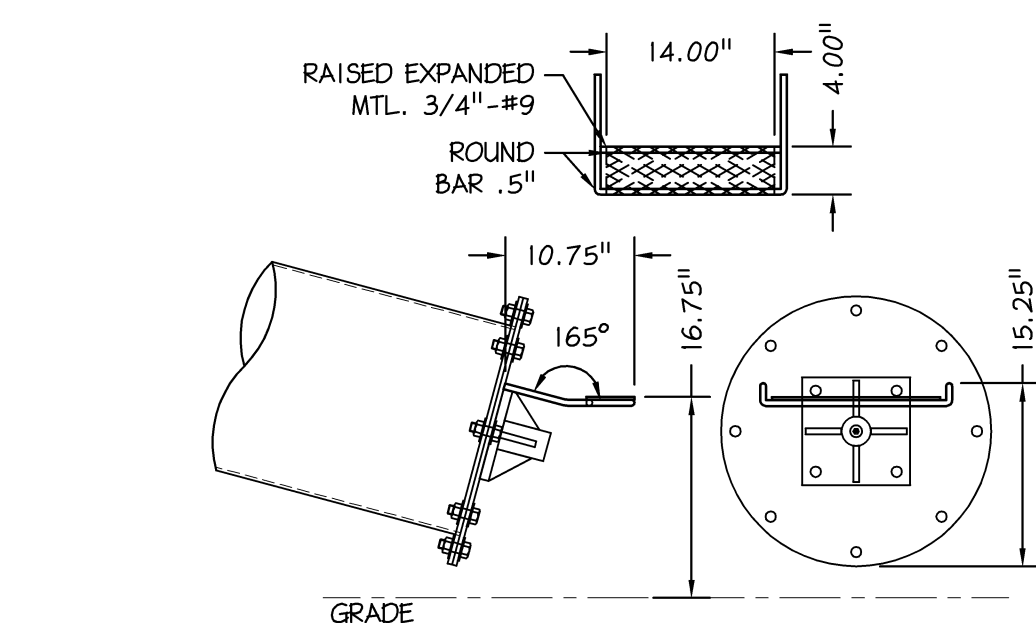
PART #300-007
300-007 3/4" = 1'- 0"



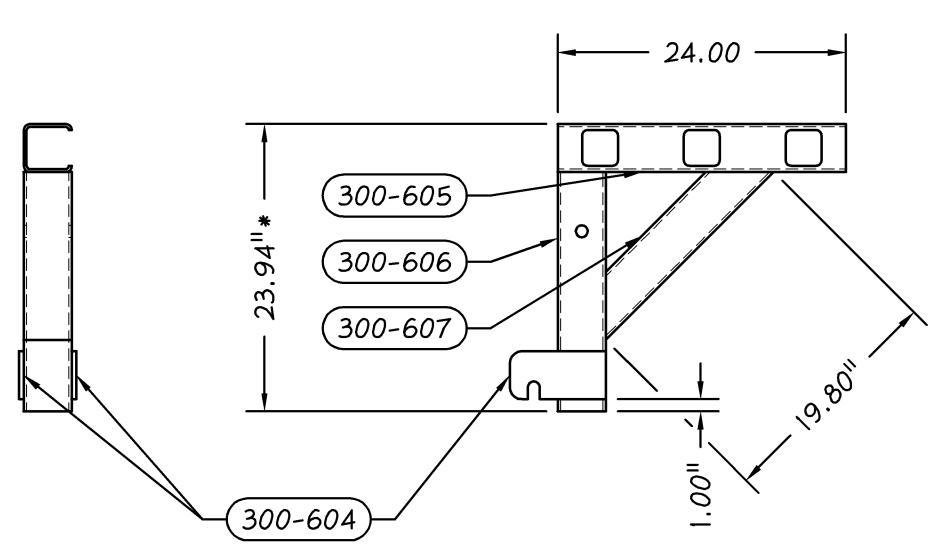
PART #300-008
300-008 3/4" = 1'- 0"



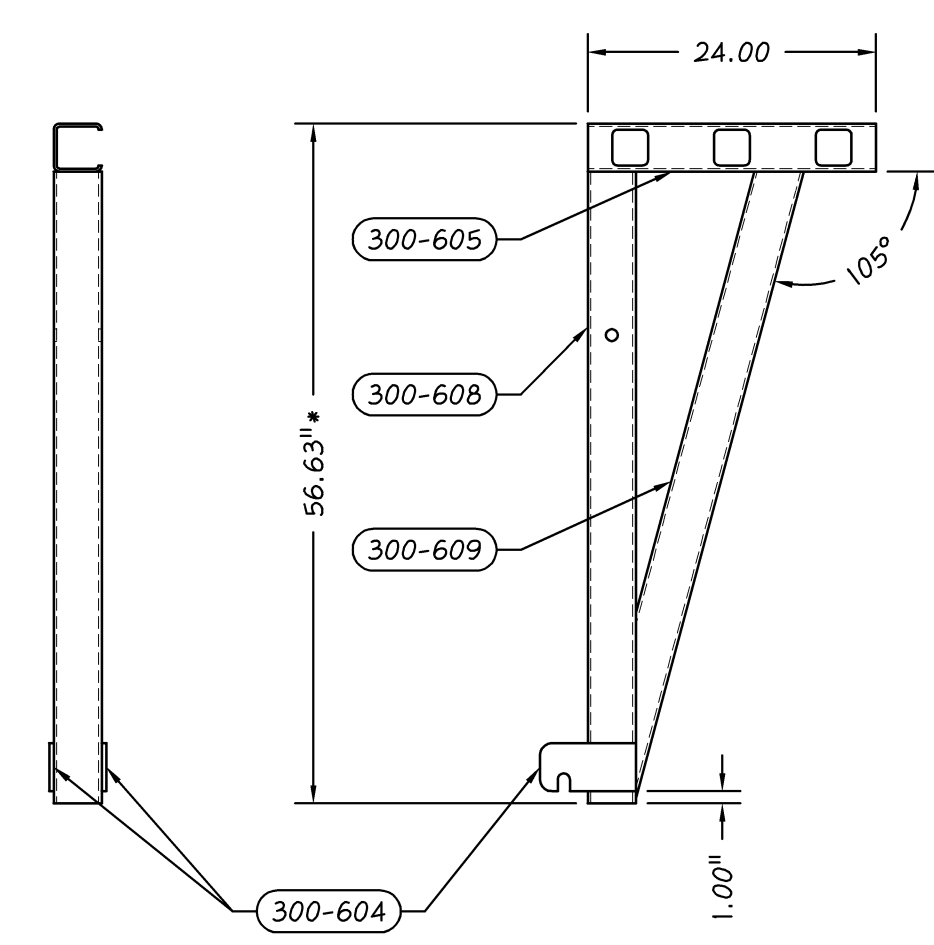
2 TYP TROUGH SECTION
301 3/4" = 1'- 0"



PART #300-010
300-010 3/4" = 1'- 0"



PART #300-601
300-601 3/4" = 1'- 0"

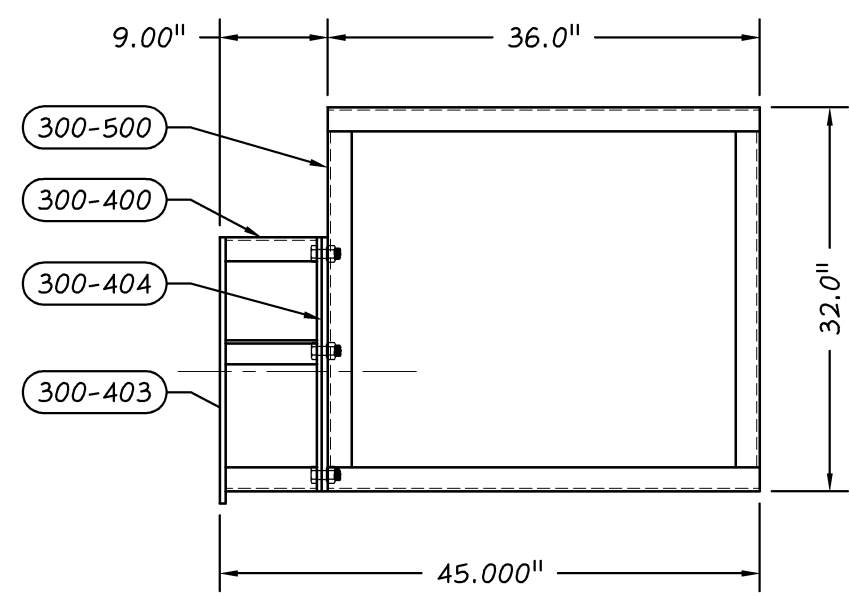


PART #300-602
300-602 3/4" = 1'- 0"

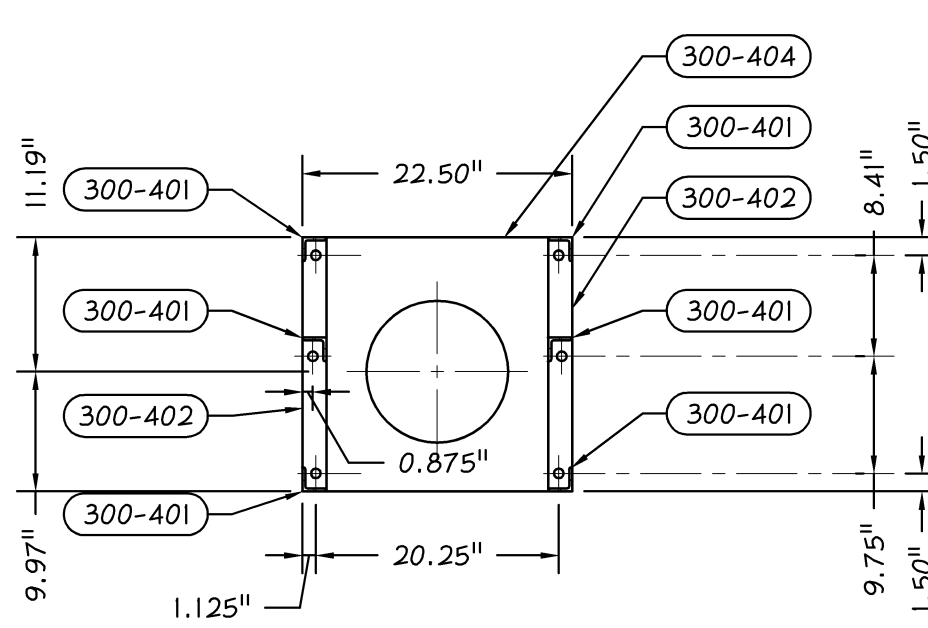
REVIEW SET 01-28-2014

REVISIONS:

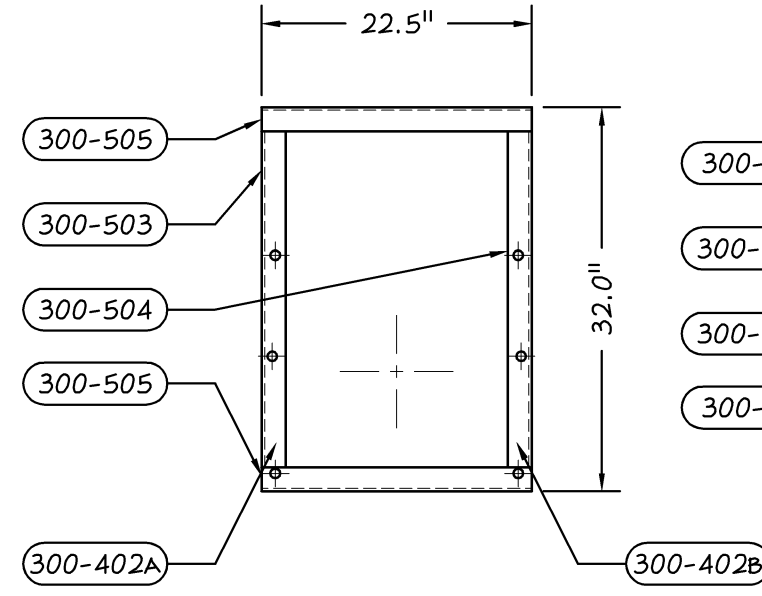
7	EMH	REVISION SET B - January 28, 2014
6	EMH	REVISION SET B - January 17, 2014
5	EMH	REVISION SET B - December 06, 2013
4	EMH	REVISION SET B - October 21, 2013
3	MJP	REVISION SET B - September 20, 2013
2	MJP	REVISION SET B - September 12, 2013
1	MJP	REVISION SET B - August 23, 2013



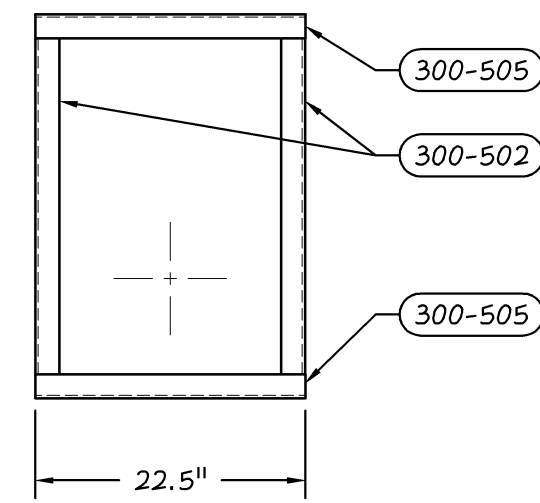
PART #300-400
3/4" = 1'- 0"



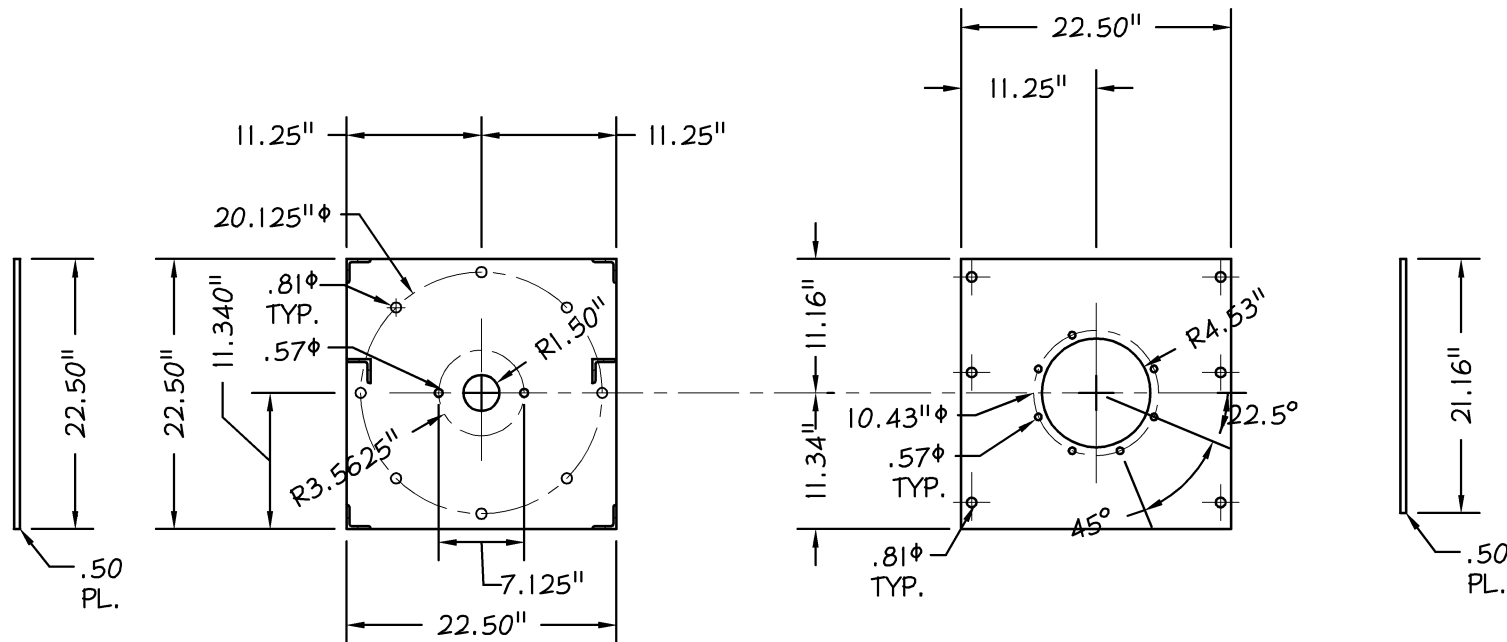
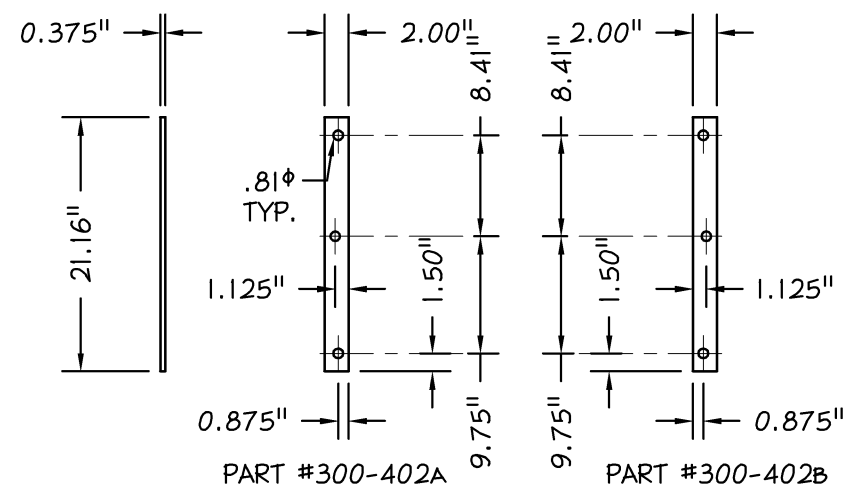
PART #300-500
3/4" = 1'- 0"



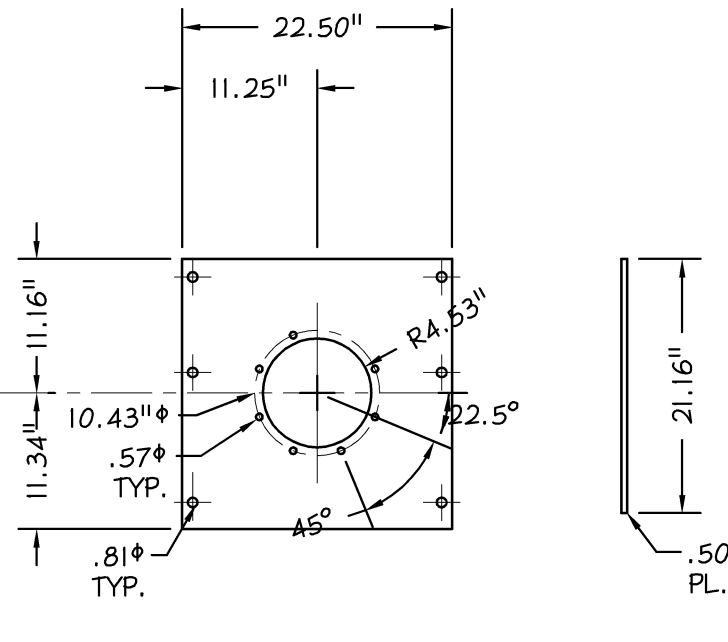
PART #300-401
3/4" = 1'- 0"



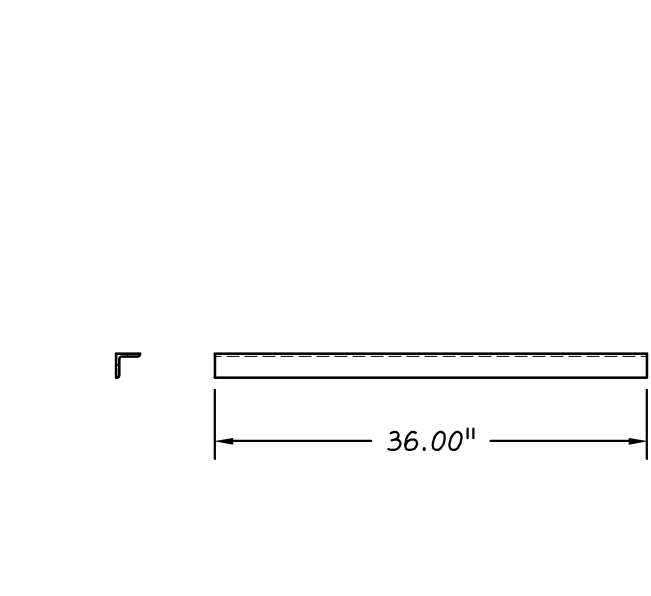
PART #300-402
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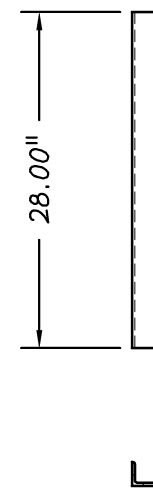
PART #300-403
3/4" = 1'- 0"



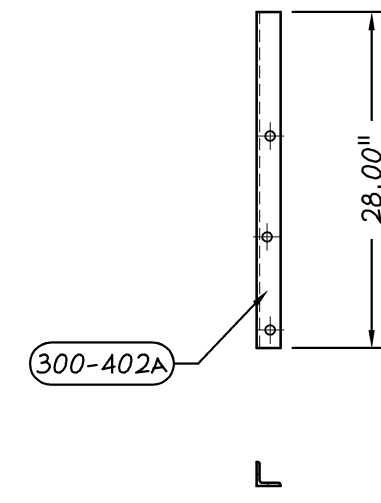
PART #300-404
3/4" = 1'- 0"



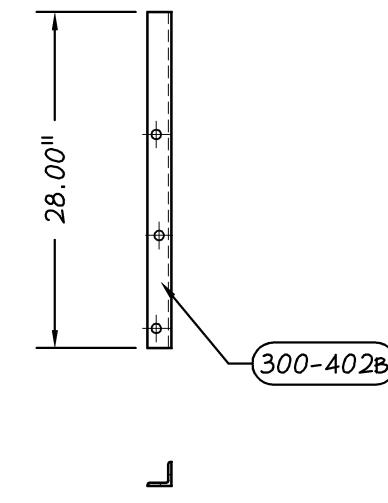
PART #300-501
3/4" = 1'- 0"



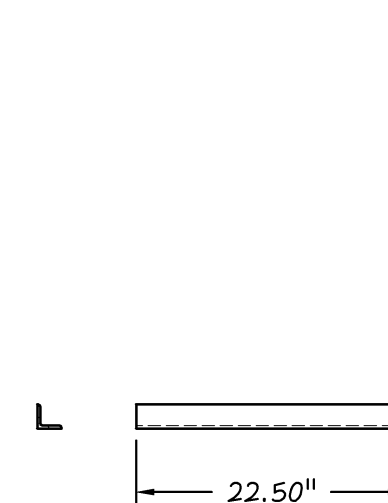
PART #300-502
3/4" = 1'- 0"



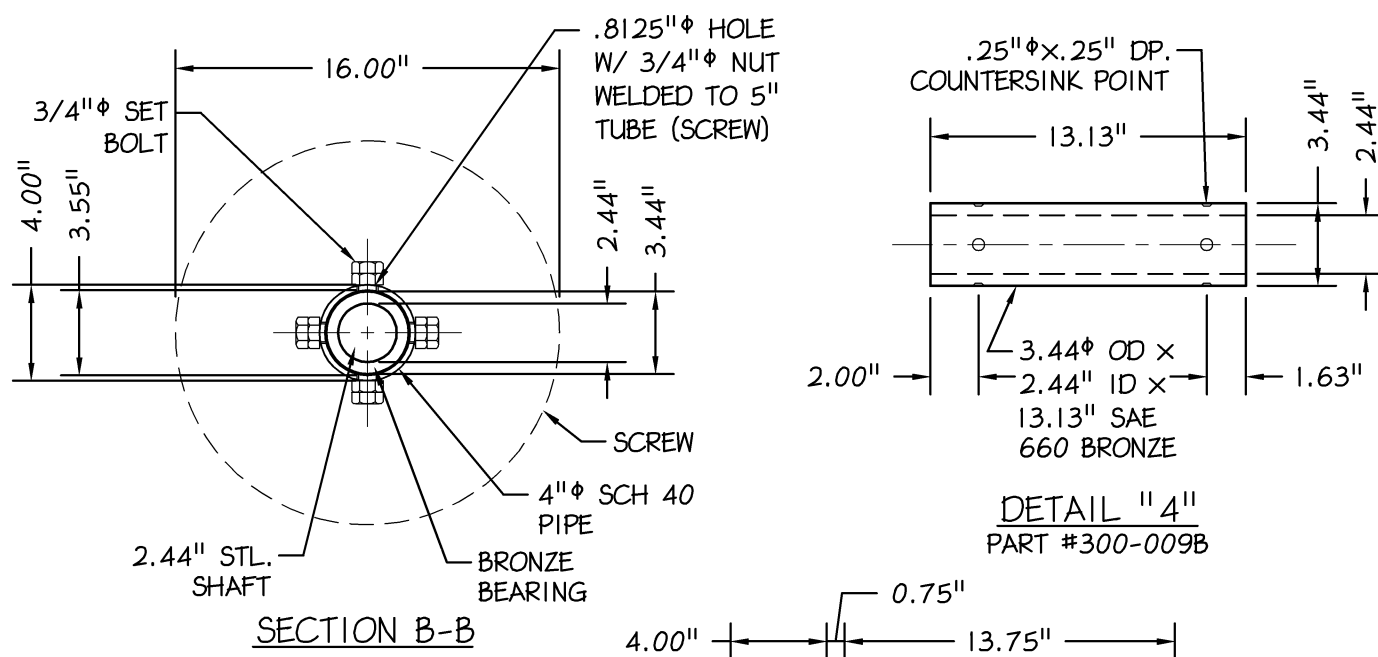
PART #300-503
3/4" = 1'- 0"



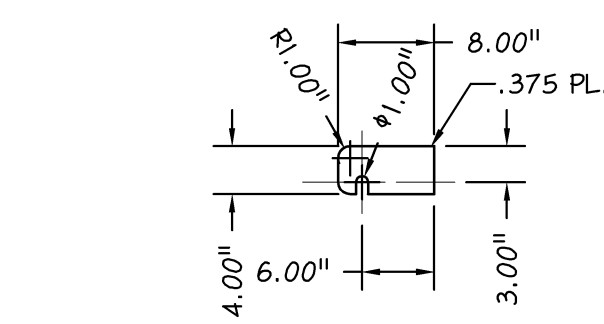
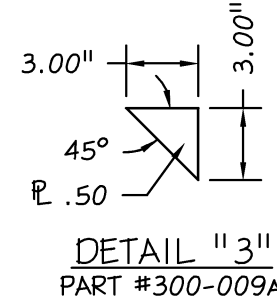
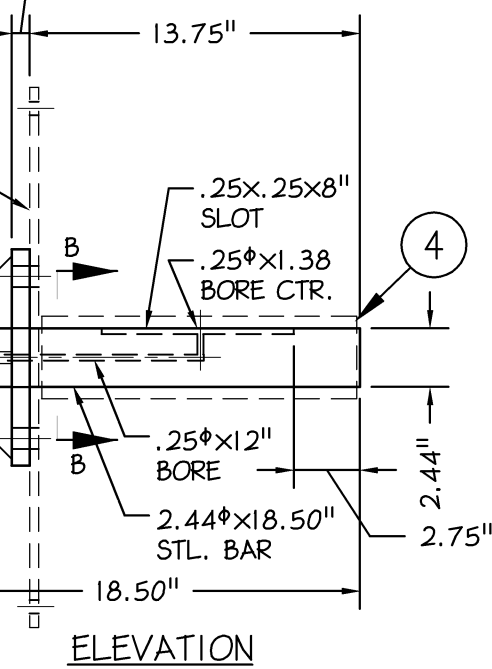
PART #300-504
3/4" = 1'- 0"



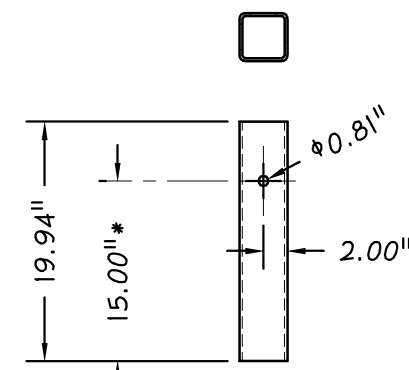
PART #300-505
3/4" = 1'- 0"



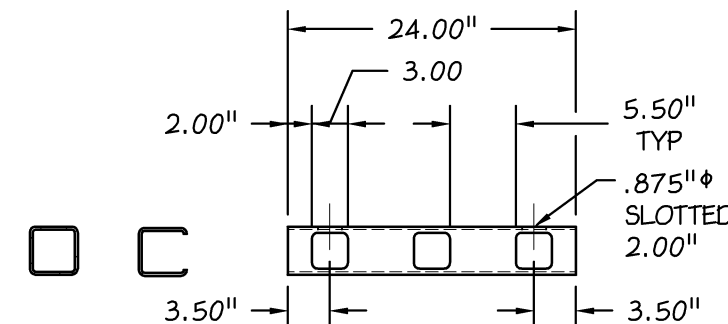
PART #300-009
1 1/2" = 1'- 0"



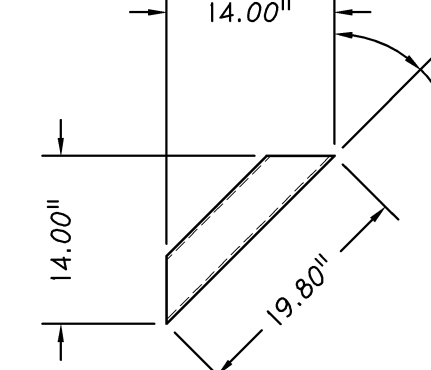
PART #300-604
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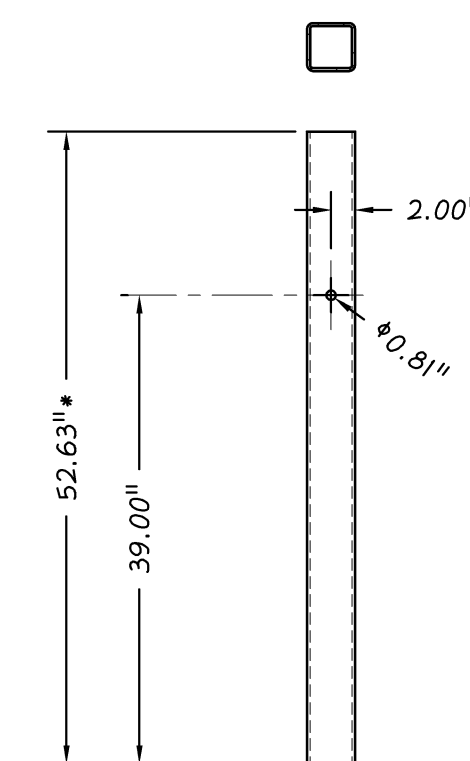
PART #300-606
3/4" = 1'- 0"



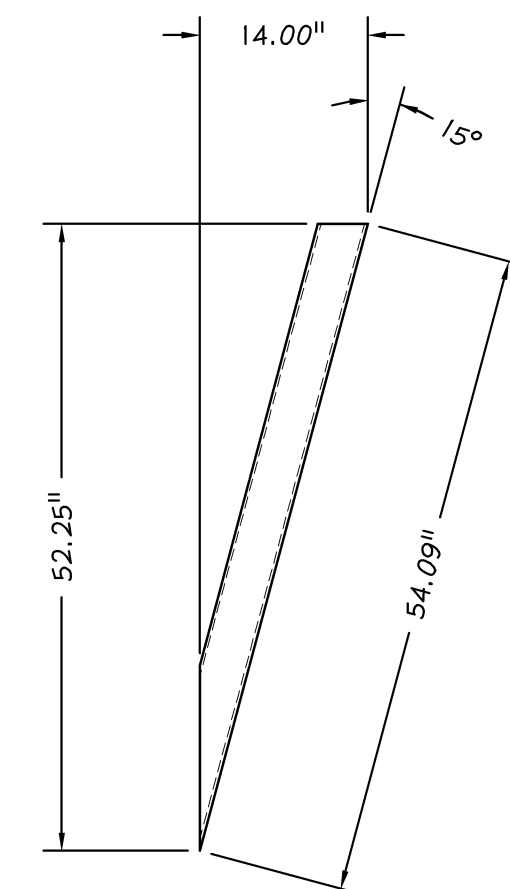
PART #300-605
3/4" = 1'- 0"



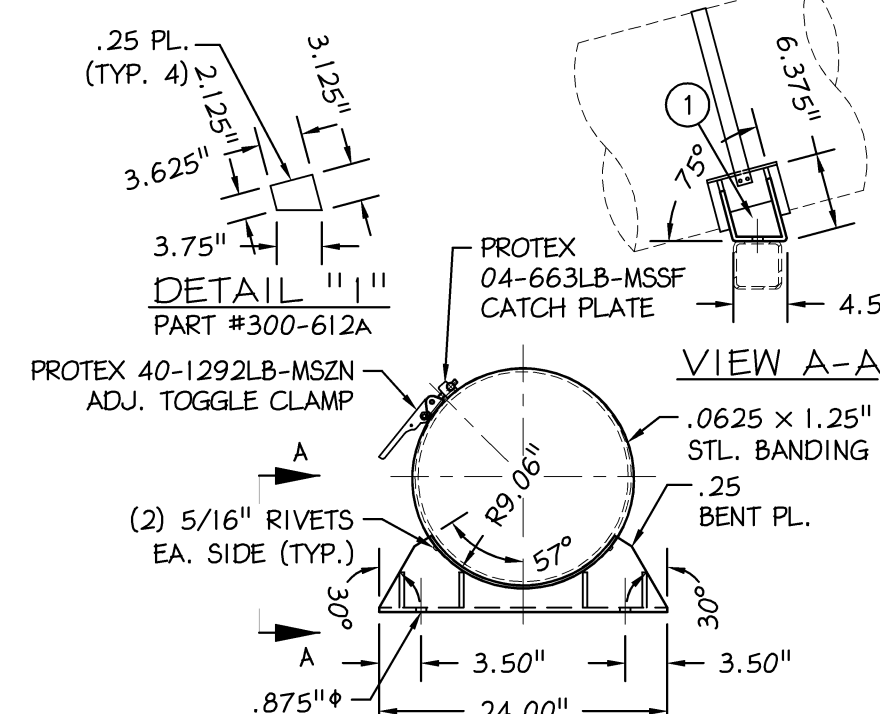
PART #300-607
3/4" = 1'- 0"



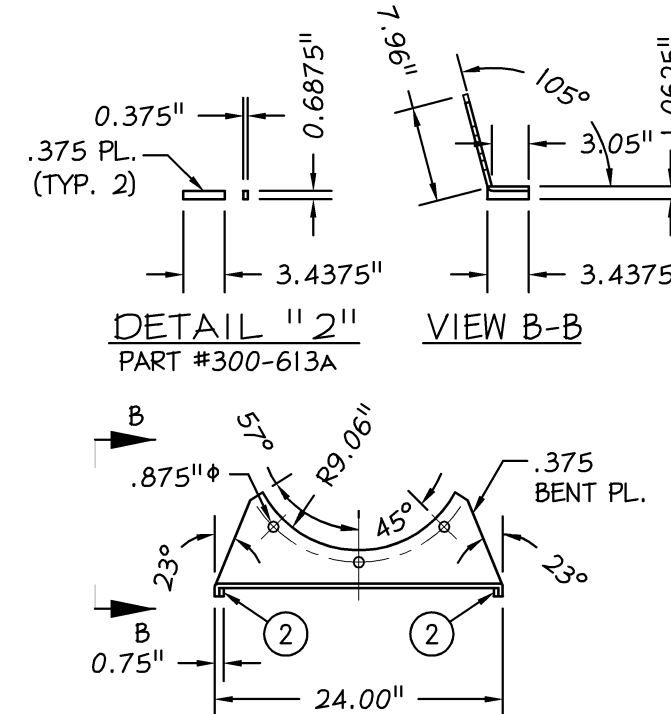
PART #300-608
3/4" = 1'- 0"



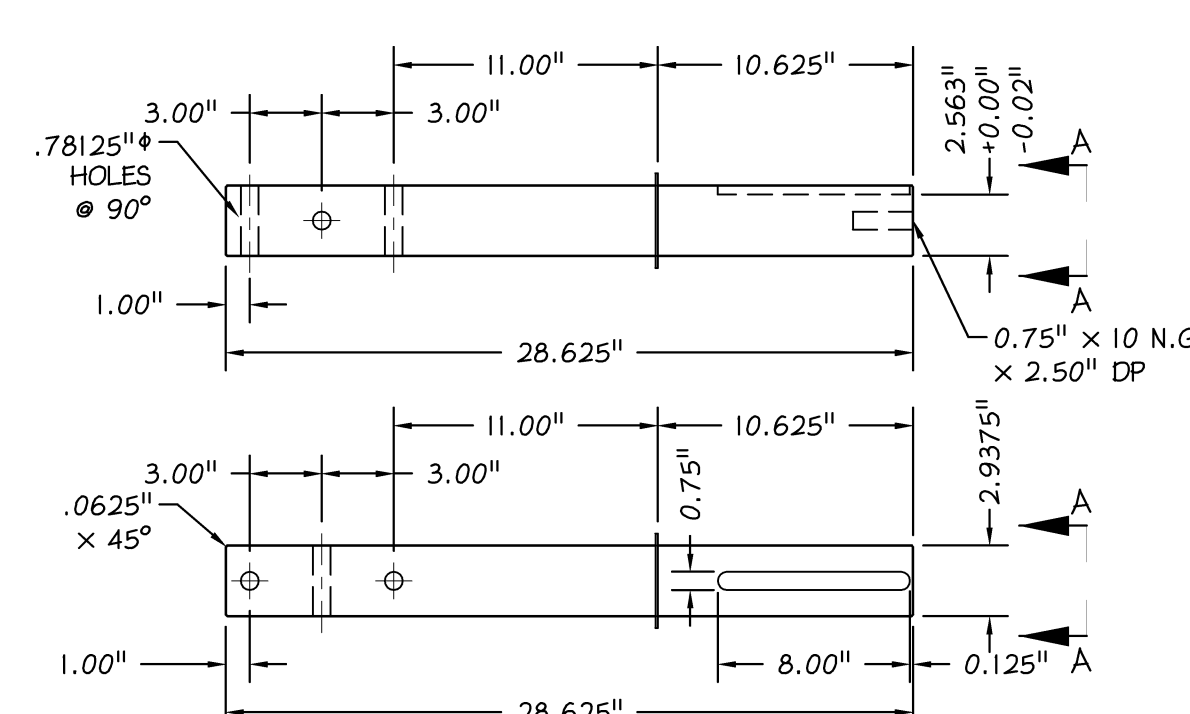
PART #300-609
3/4" = 1'- 0"



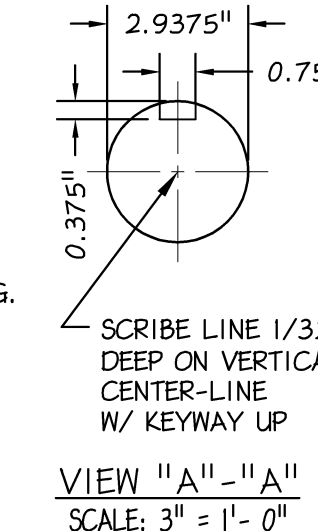
PART #300-612
3/4" = 1'- 0"



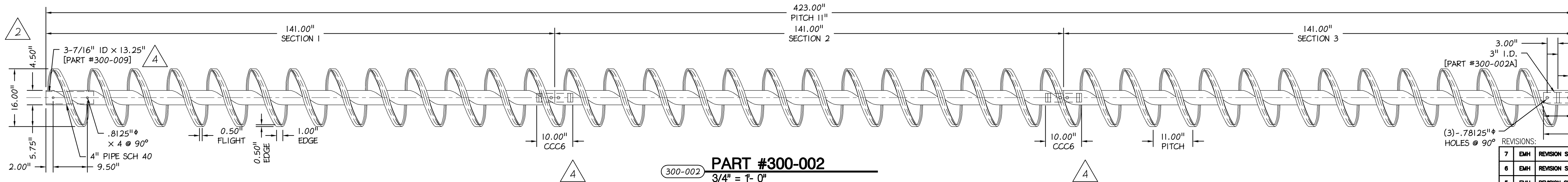
PART #300-613
3/4" = 1'- 0"



PART #300-002A
1-1/2" = 1'- 0"



- NOTES:
1. ALL EXTERIOR PART SURFACES TO BE:
 - 1.1. SPC-3 POWER TOOL CLEAN
 - 1.2. (1) COAT RED OXIDE PRIME
 - 1.3. (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS. (COLOR TBD BY SUSQUEHANNA SERVICES)
 2. DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED)
 - FRACTIONAL $\pm 0.015625"$
 - ANGULAR $\pm .25"$
 3. DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 4. ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.



PART #300-002
3/4" = 1'- 0"

REVIEW SET 01-28-2014

PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

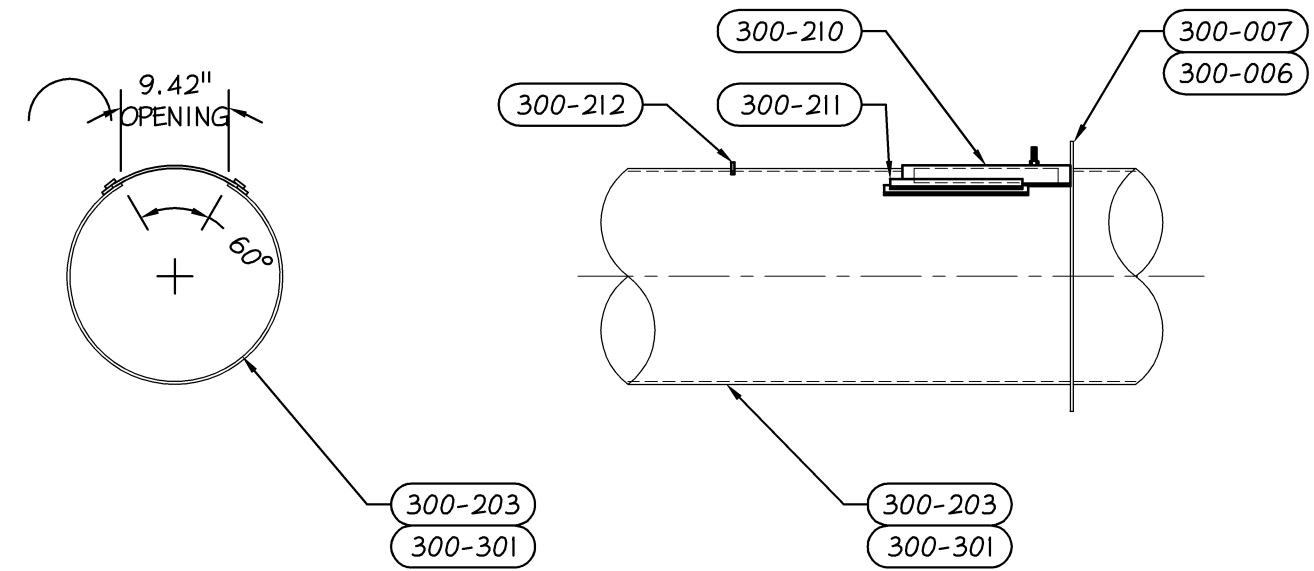
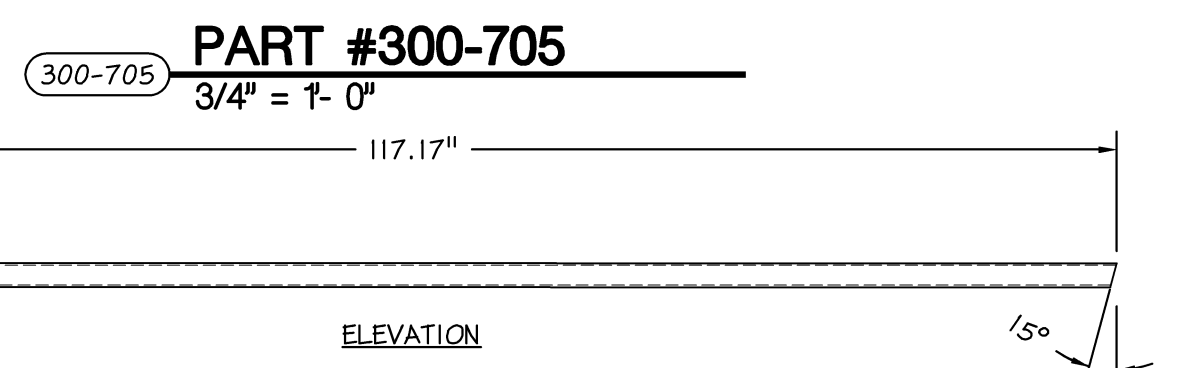
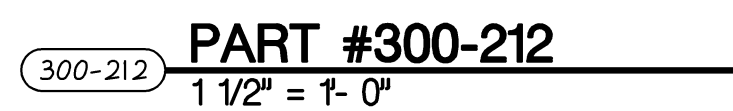
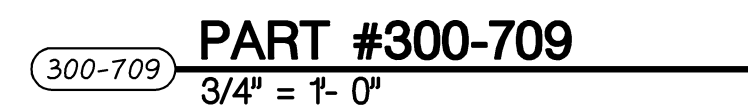
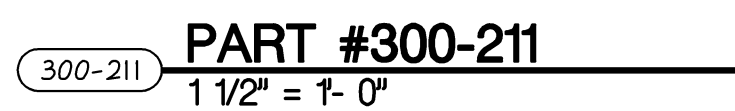
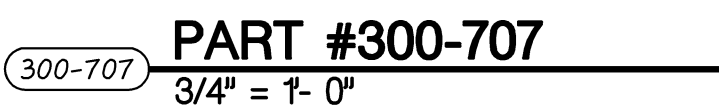
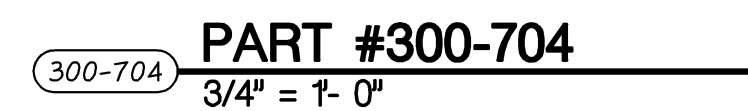
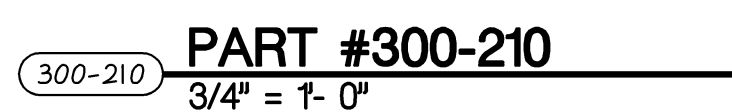
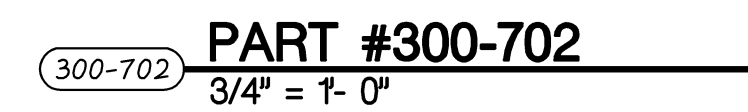
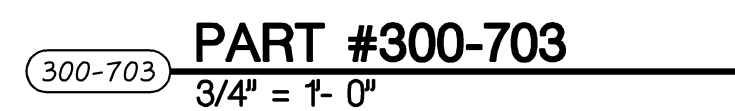
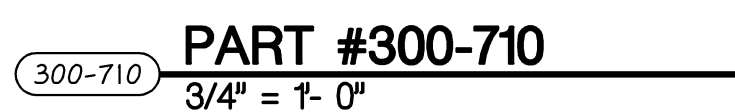
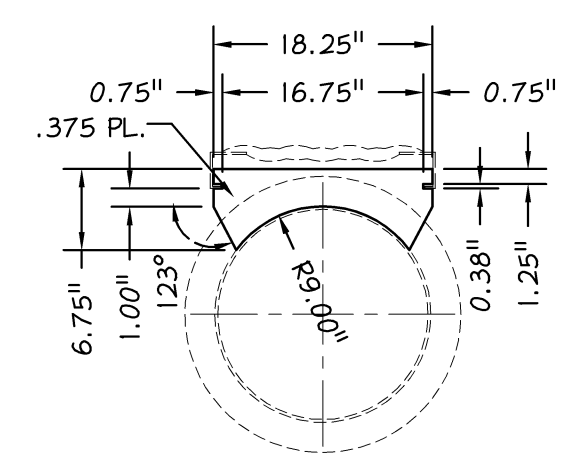
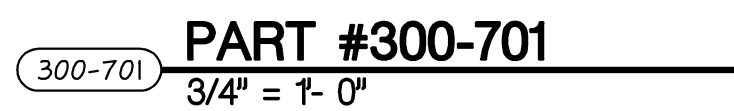
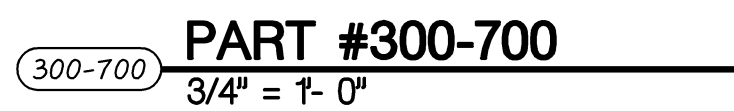
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DATE: January 28, 2014 DRAWN BY: MJP CHECKED BY: EMH
JOB NUMBER: B3450-A APPROVED BY: RJK SHEET NO: 302

PREPARED BY: PREPARED FOR:

Betzwood AssociatesPC
Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE
523 Kimberton Road, Suite 118 Phoenixville, PA 19380
tel: (610) 977-8831 fax: (610) 977-8834
email: mail@betzwood.com http://www.betzwood.com

SUSQUEHANNA SERVICES, INC.

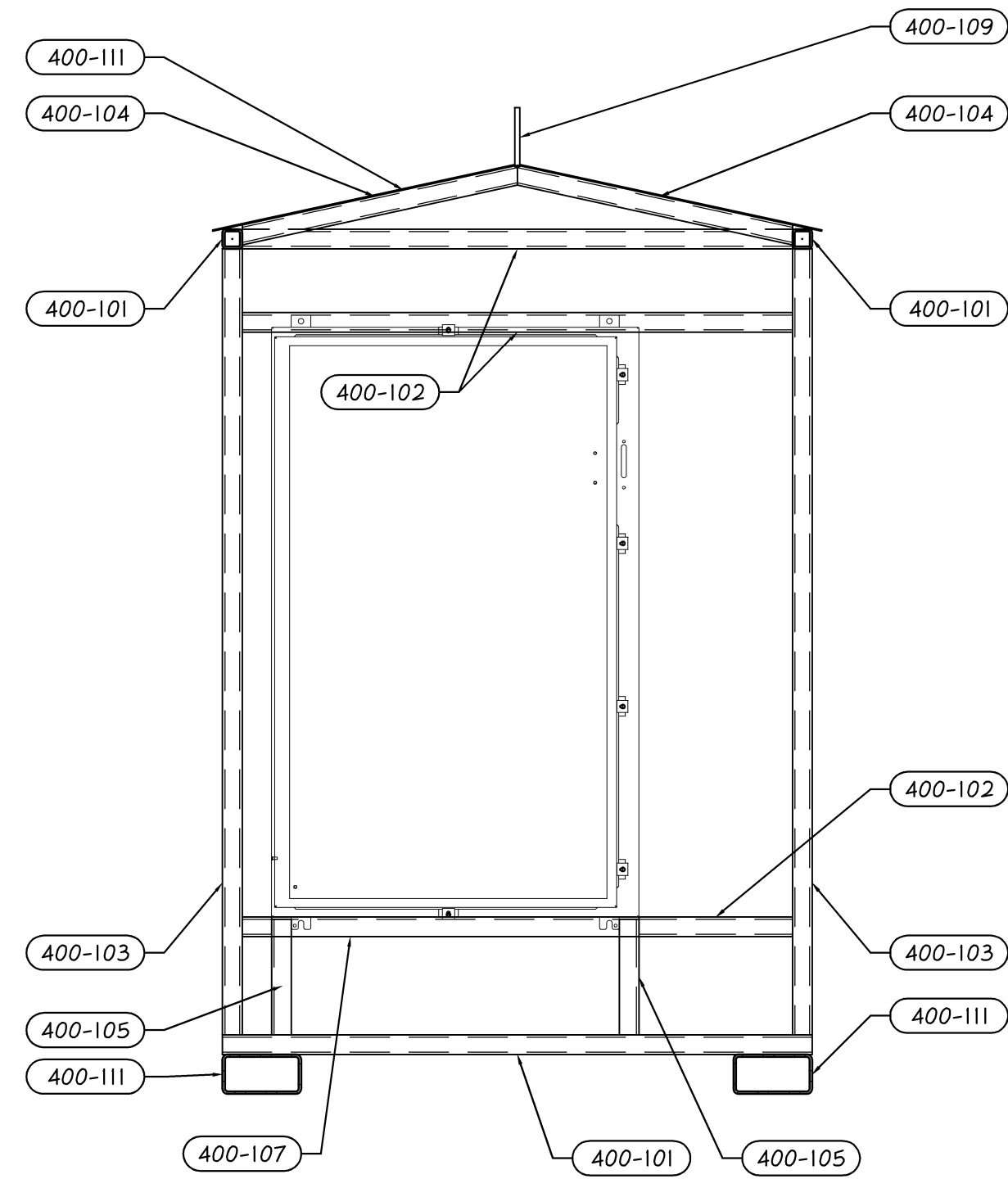


- TITLE: **PUGMILL EQUIPMENT LAYOUT**
(TYPICAL CONFIGURATION)
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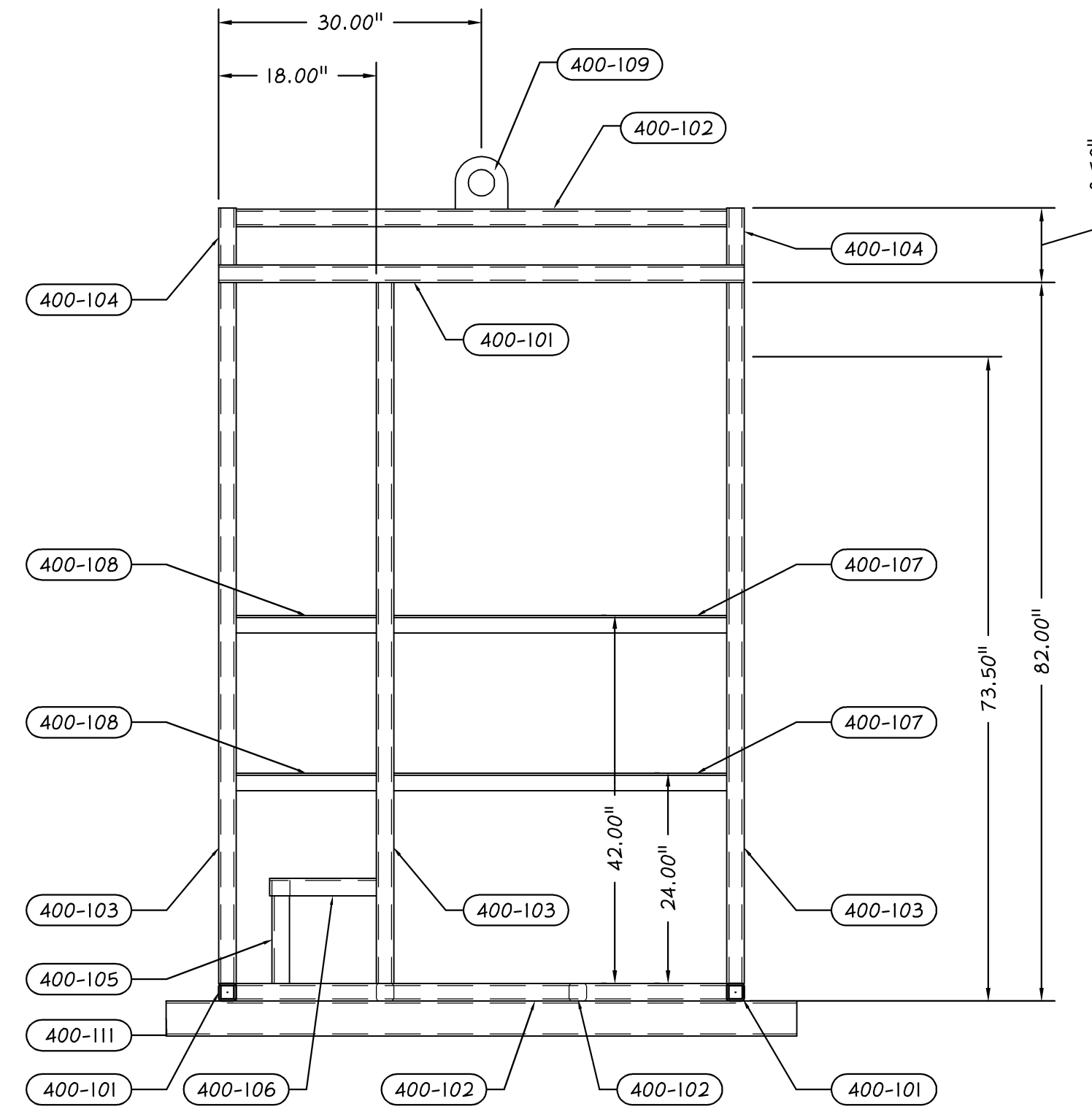
DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 300

	PREPARED BY:	PREPARED FOR:
2014	 Betzwood Associates PC Architects & Engineers	
2013		
2012		
2011		
2010		
2009	Robin J. Kohn, AIA Regis W. Kubitz, PE	SUSQUEHANNA SERVICES, INC.
2008	523 Kimberlin Road, Suite 118 Pheasantville, PA 19460 tel. (610) 977-0831 fax (610) 977-0836 email mail@betzwood.com www.betzwood.com	
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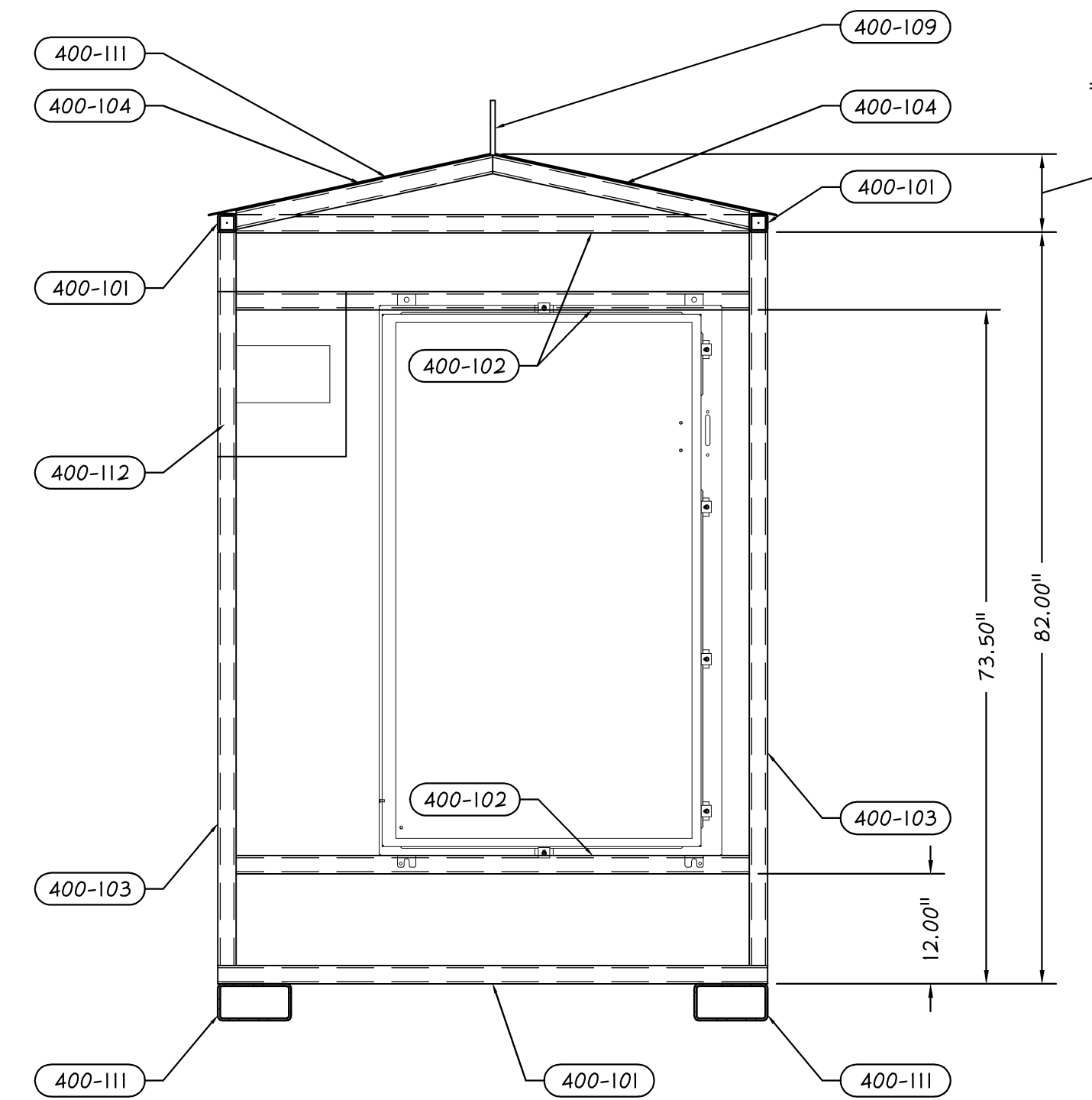
REVIEW SET 01-28-2014



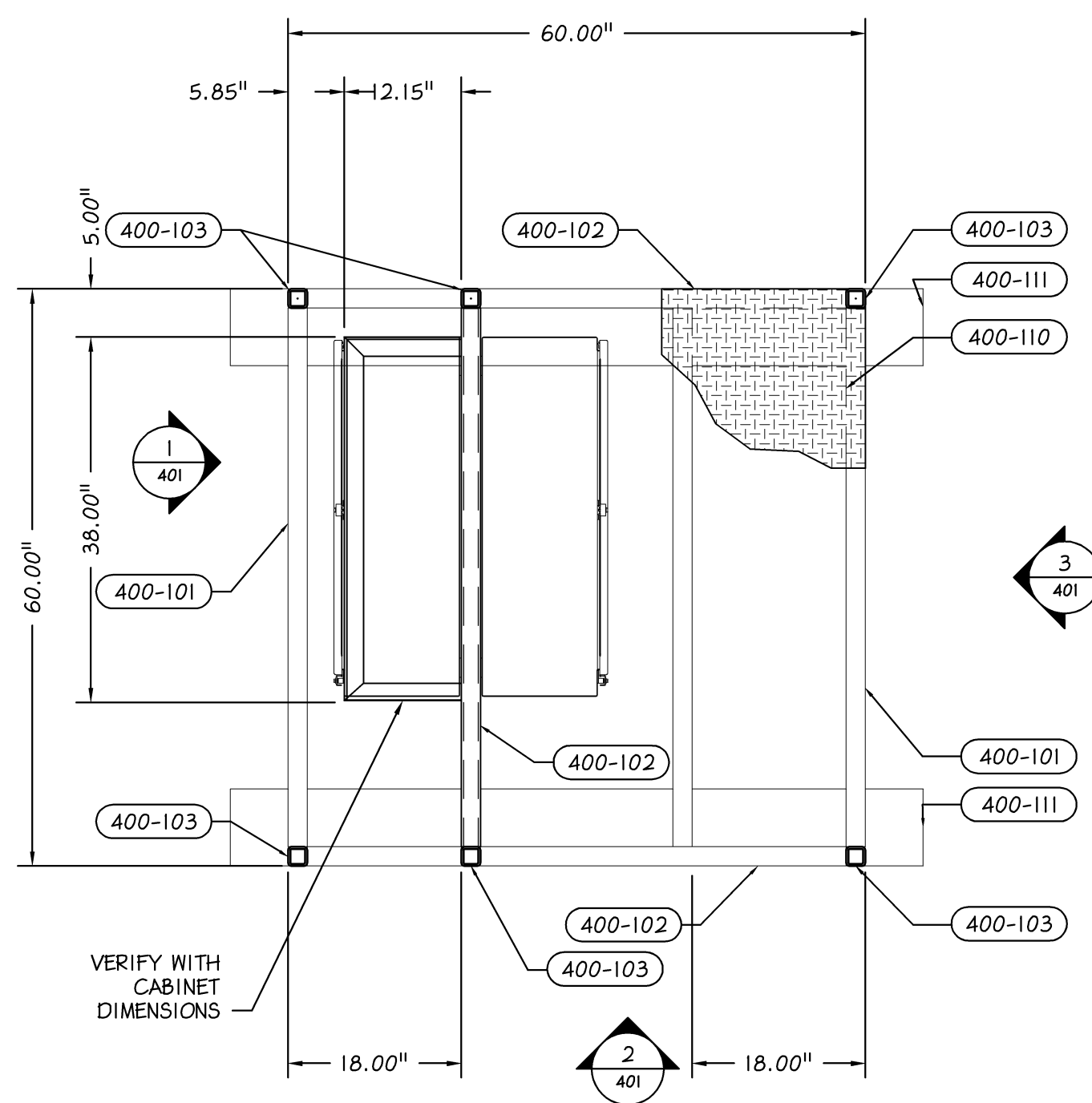
1 CONTROL HOUSE - REAR ELEVATION
401 Scale: 3/4" = 1'- 0"



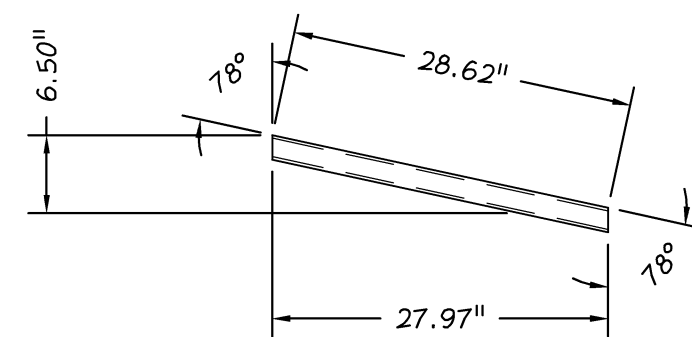
2 CONTROL HOUSE - SIDE ELEVATION
401 Scale: 3/4" = 1'- 0"



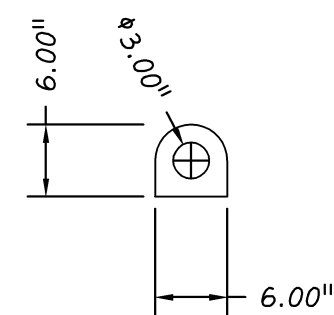
3 CONTROL HOUSE - FRONT ELEVATION
401 Scale: 3/4" = 1'- 0"



4 CONTROL HOUSE - PLAN
401 Scale: 3/4" = 1'- 0"



PART #400-104
3/4" = 1'- 0"



PART #400-109
3/4" = 1'- 0"

- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
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 - DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 - ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.

TITLE:
PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

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DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 401

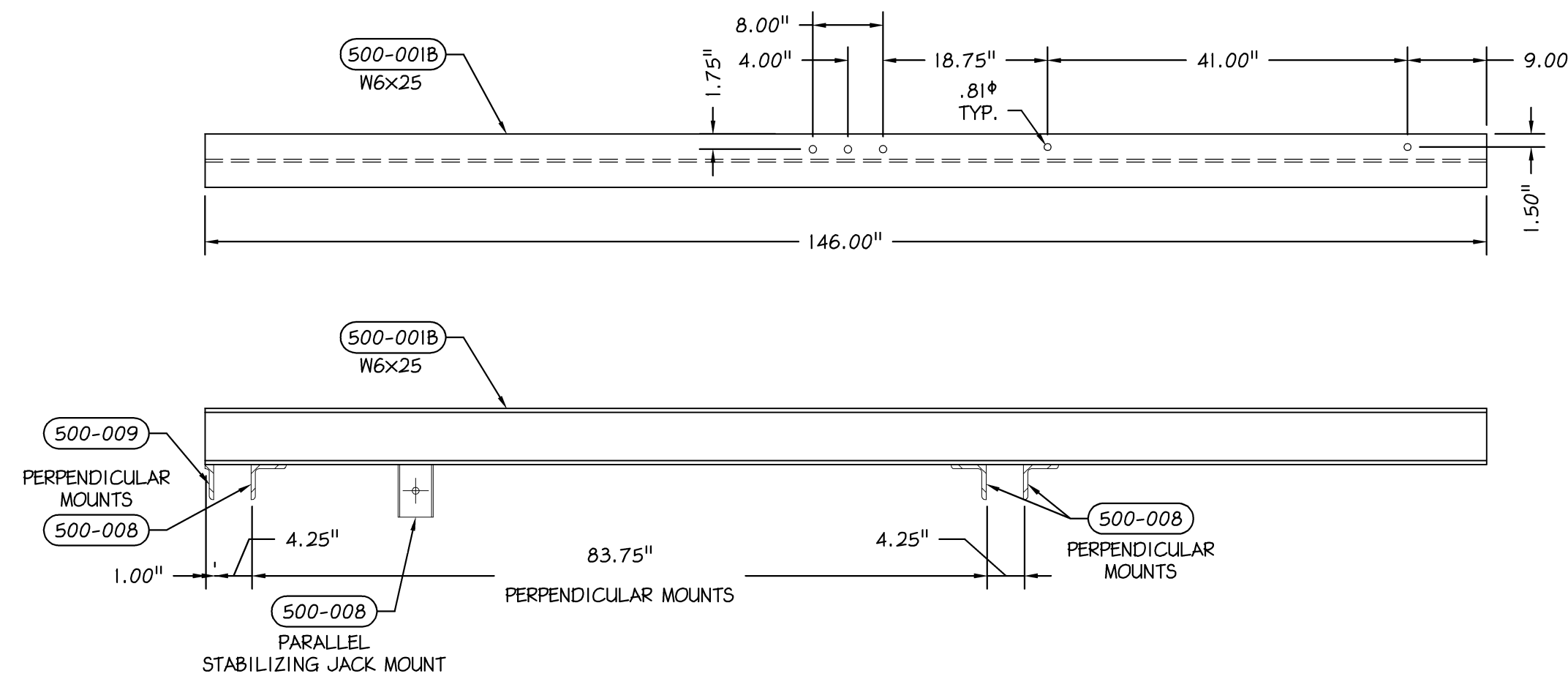
PREPARED BY: **Betzwood AssociatesPC** Architects & Engineers
Robin J. Kohn, AIA
Regis W. Kubit, PE

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SUSQUEHANNA SERVICES, INC.

REVISIONS:		
7	EMH	REVISION SET B - January 28, 2014
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1	MJP	REVISION SET B - August 23, 2013

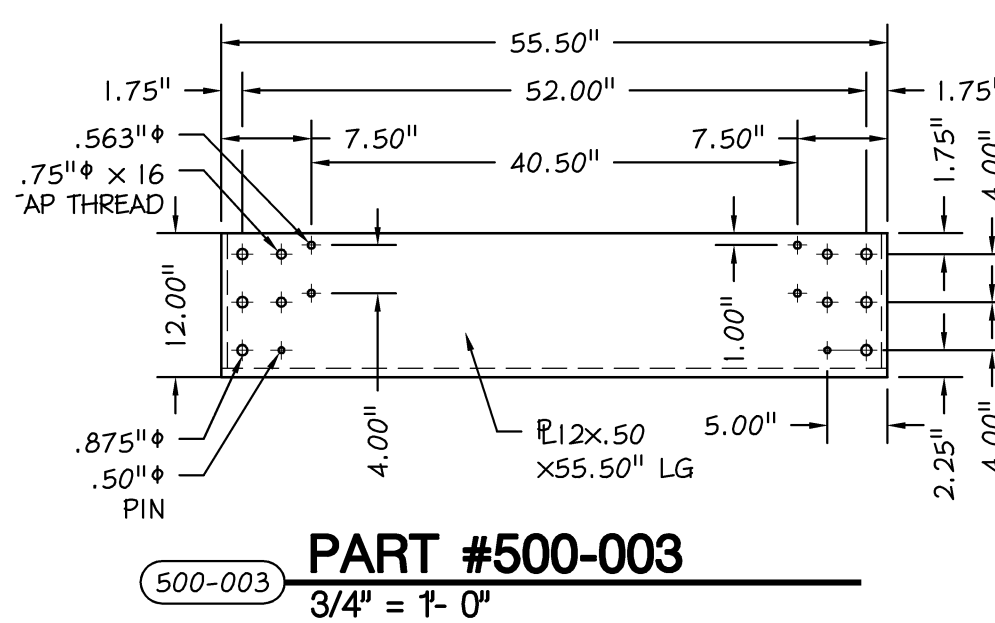
REVIEW SET 01-28-2014



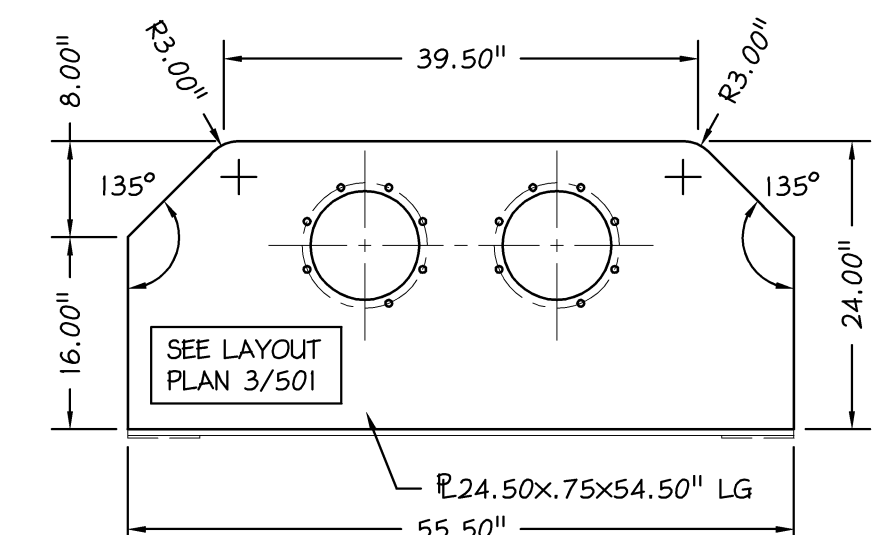
PART #500-001B
500-001B 3/4" = 1'- 0"



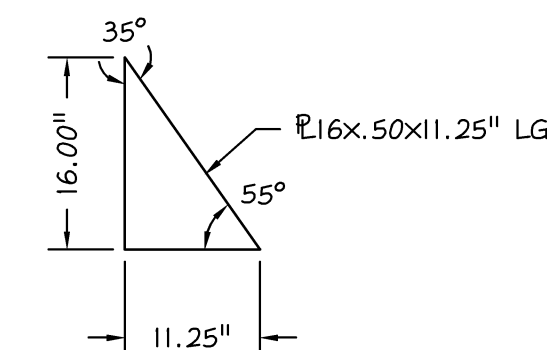
PART #500-002B
500-002B $\frac{3}{4}" = 1' - 0"$



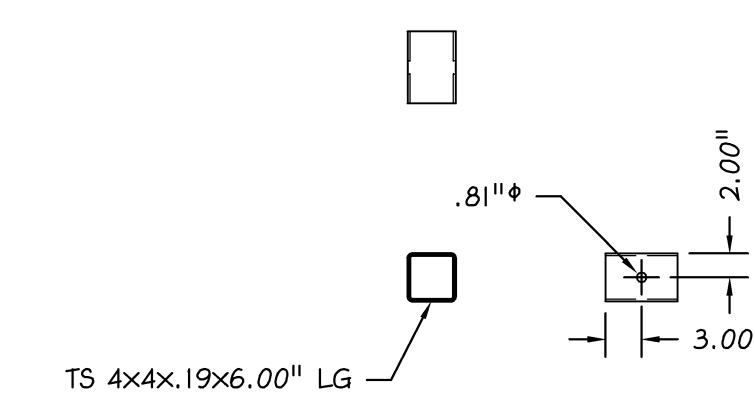
PART #500-004
3/4" = 1'- 0"



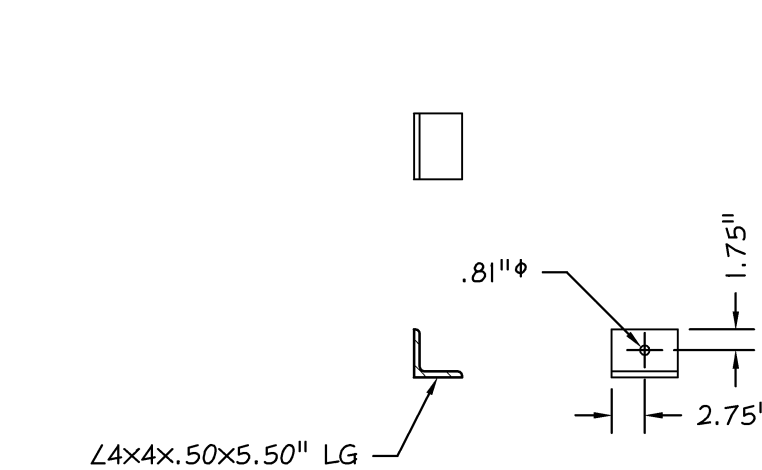
PART #500-005
500-005 $\frac{3}{4}" = 1'-0"$



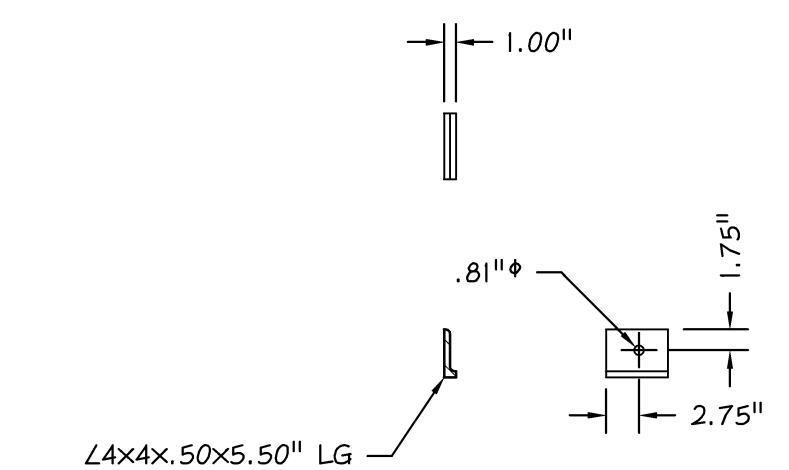
PART #500-006
500-006 3/4" = 1'- 0"



PART #500-007
500-007 $3/4" = 1'-0"$

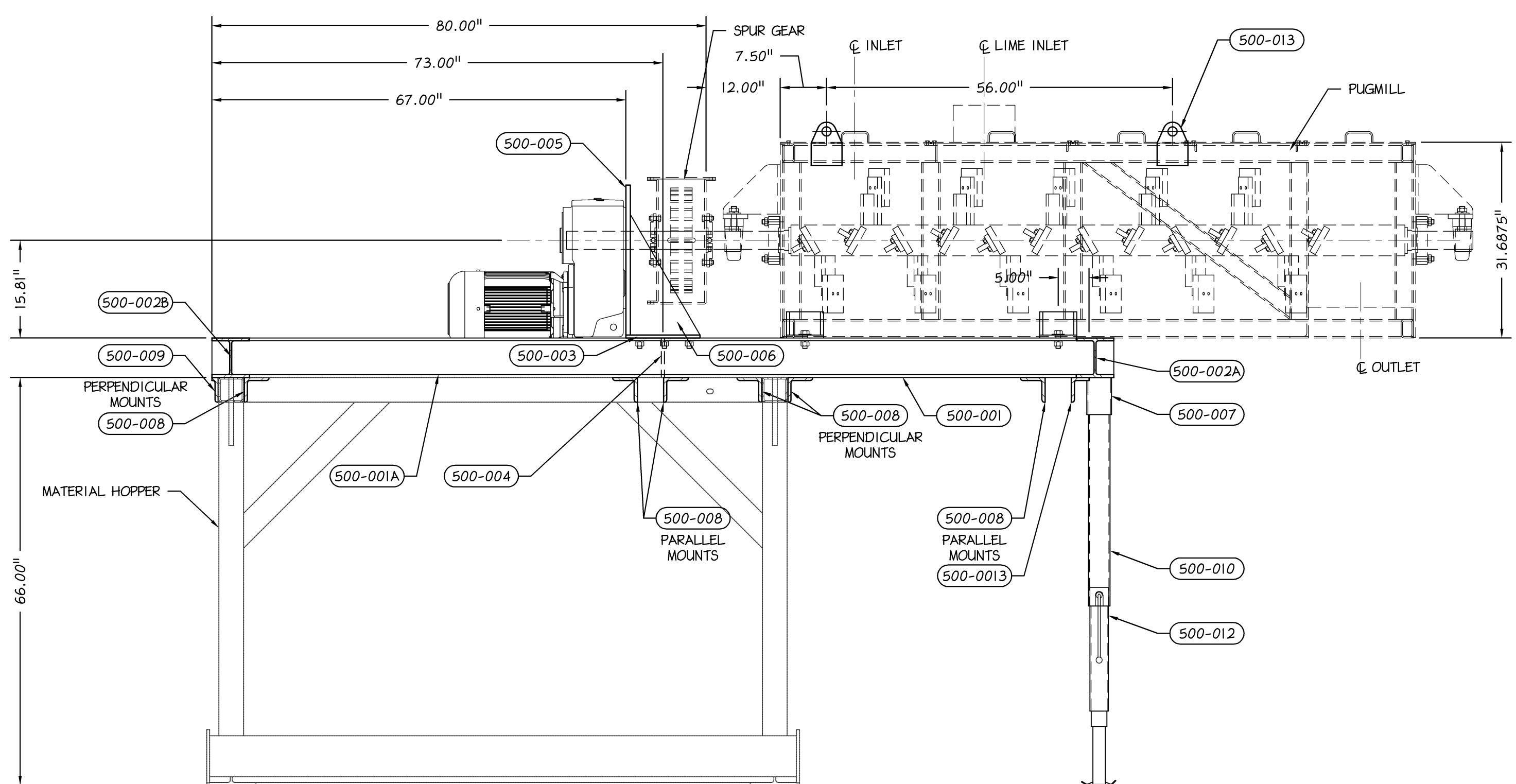


PART #500-008
500-008 $3/4" = 1'-0"$

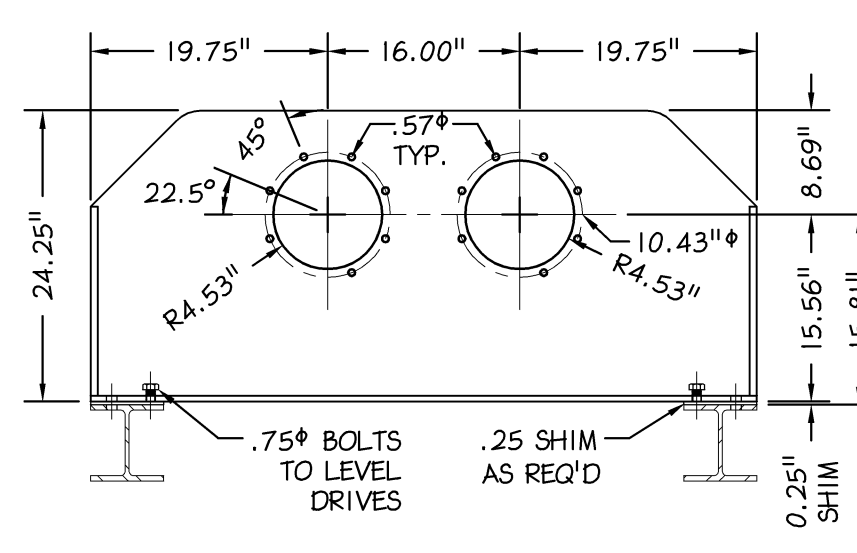


PART #500-009
500-009 $\frac{3}{4}" = 1' - 0"$

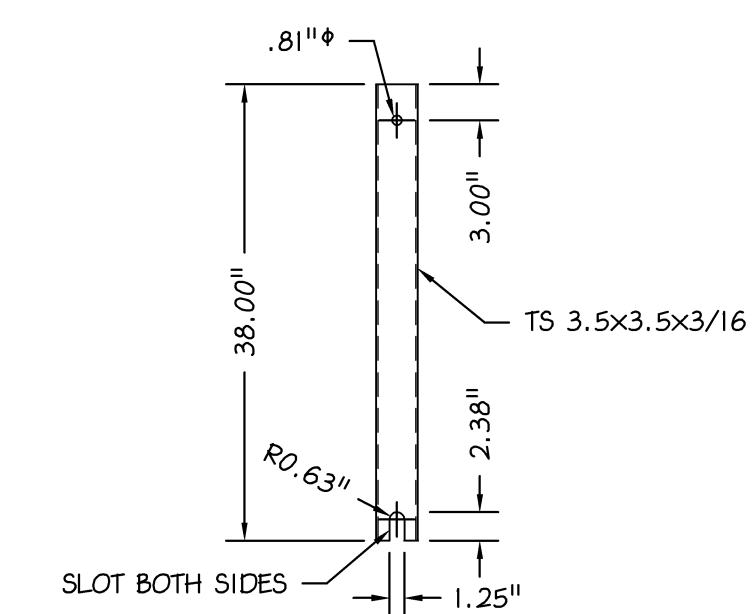
1 DUNNAGE - PLAN
501 Scale: 3/4" = 1'- 0"



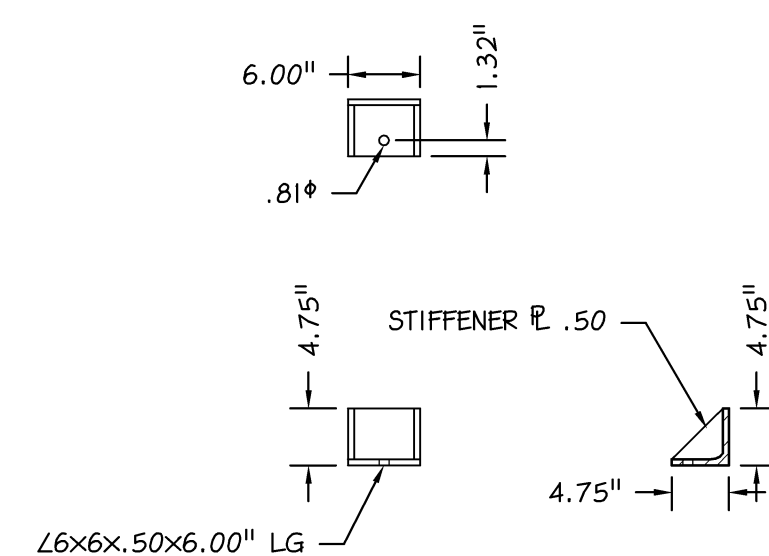
2 DUNNAGE - SIDE ELEVATION
501 Scale: 3/4" = 1'- 0"



3 MOUNTING LAYOUT

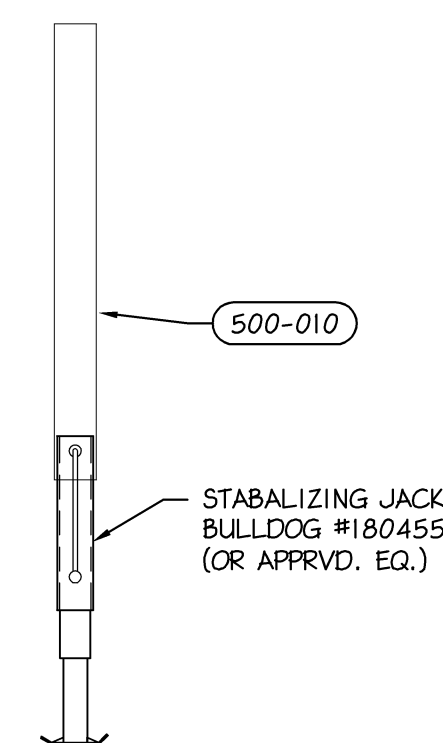


PART #500-010
500-010 $\frac{3}{4}" = 1'-0"$

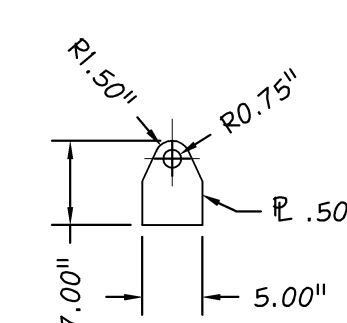


PUGMILL MOUNT
500-011 $3/4" = 1'-0"$

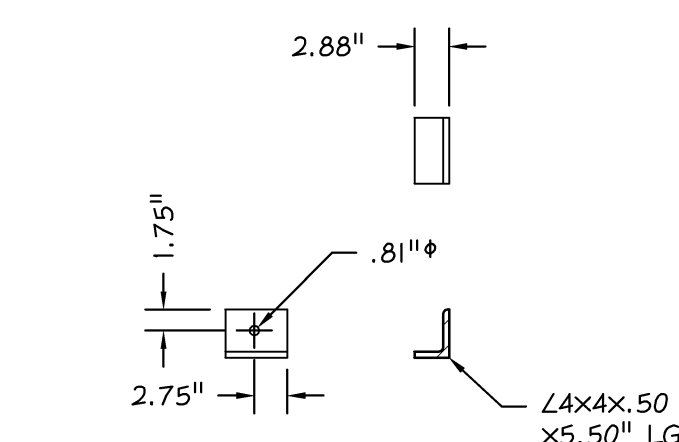
- NOTES:
1. ALL EXTERIOR PART SURFACES TO BE:
 - 1.1. SPC-3 POWER TOOL CLEAN
 - 1.2. (1) COAT RED OXIDE PRIME
 - 1.3. (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS.
(COLOR TBD BY SUSQUEHANNA SERVICES)
 2. DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED)
FRACTIONAL $\pm 0.015625"$; ANGULAR $\pm .25"$
 3. DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 4. ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.



STABLIZING JACK
500-012 $3/4" = 1'-0"$



PART #500-013
500-013 $\frac{3}{4}" = 1'-0"$



PART #500-0014
500-014 $\frac{3}{4}" = 1 - 0"$

REVISONS:		
7	EMH	REVISION SET B - January 28, 2014
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1	MJP	REVISION SET B - August 23, 2013

REVIEW SET 01-28-2014

TITLE:

PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

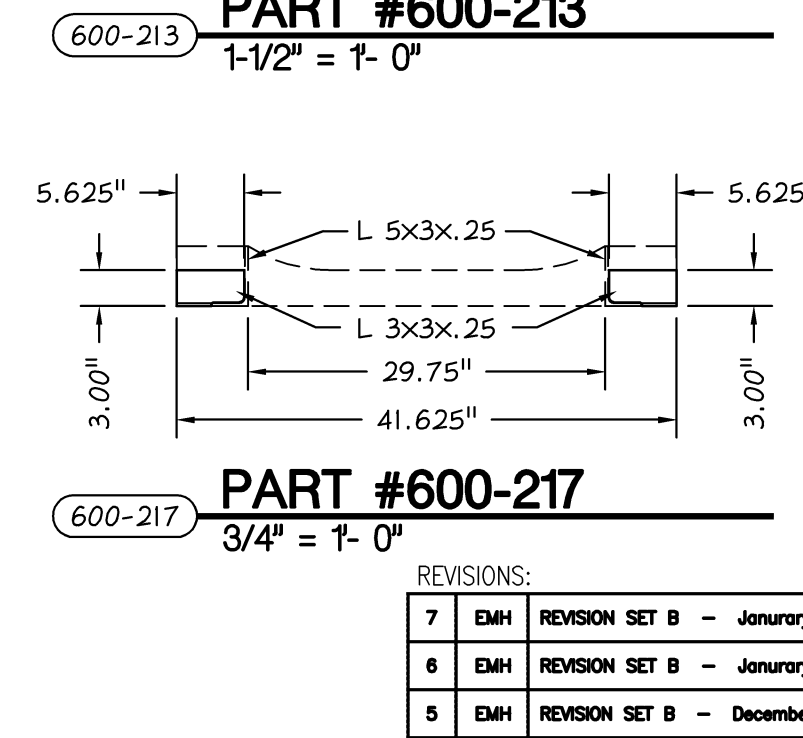
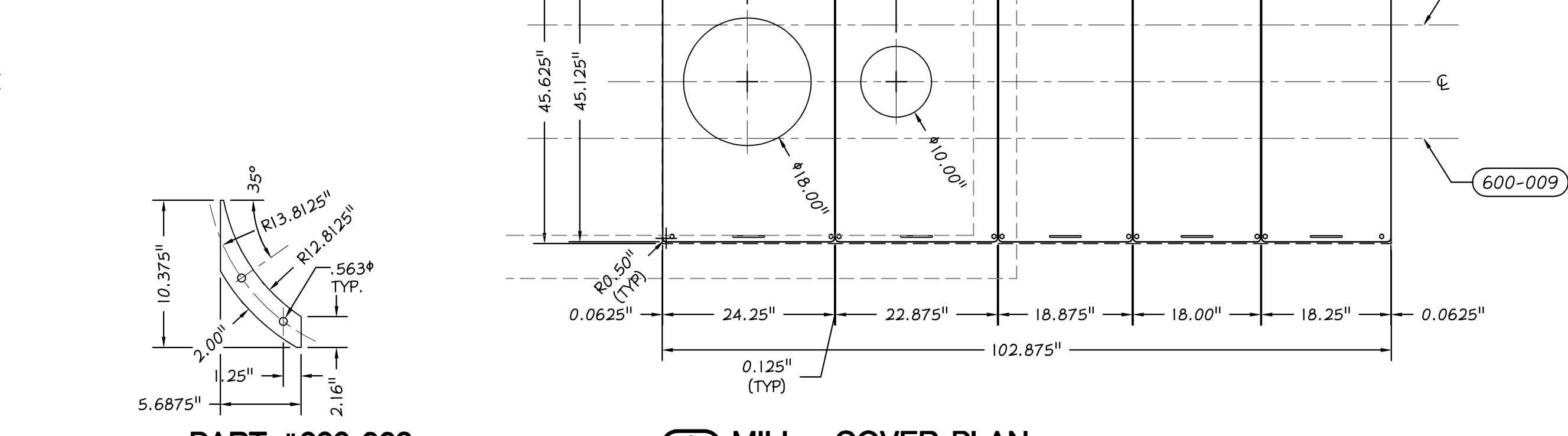
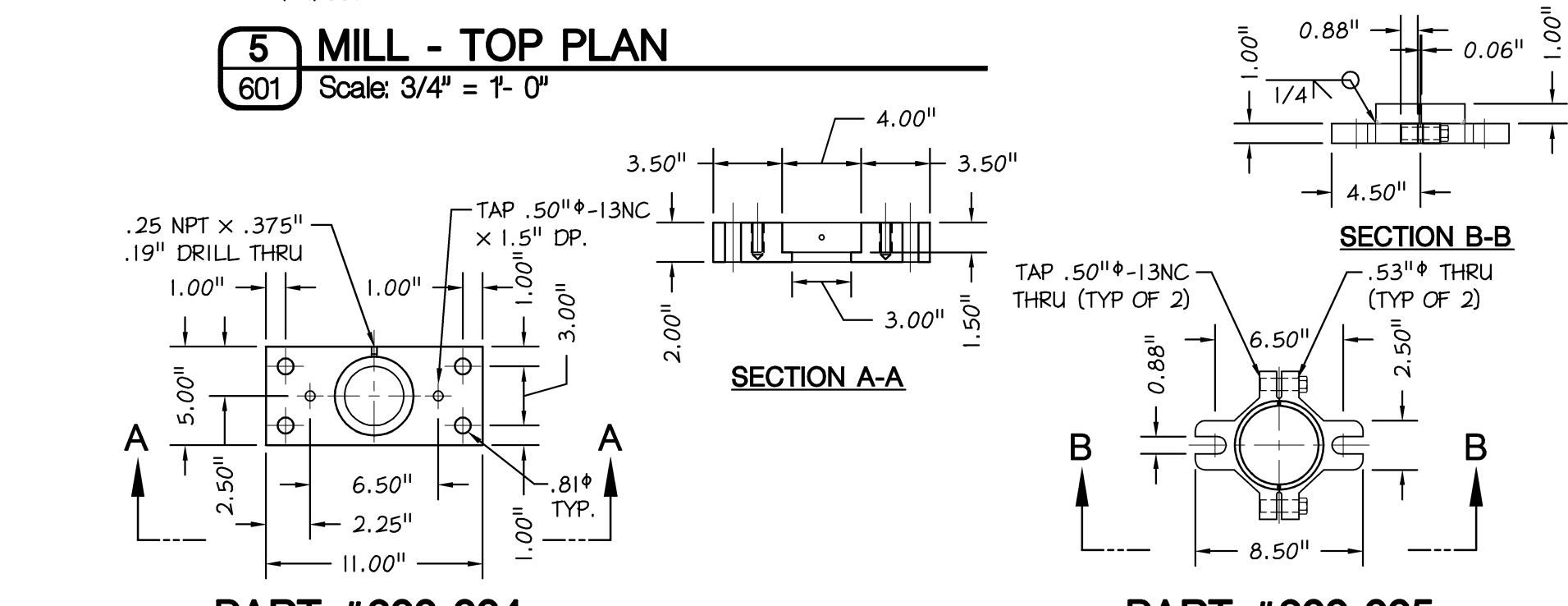
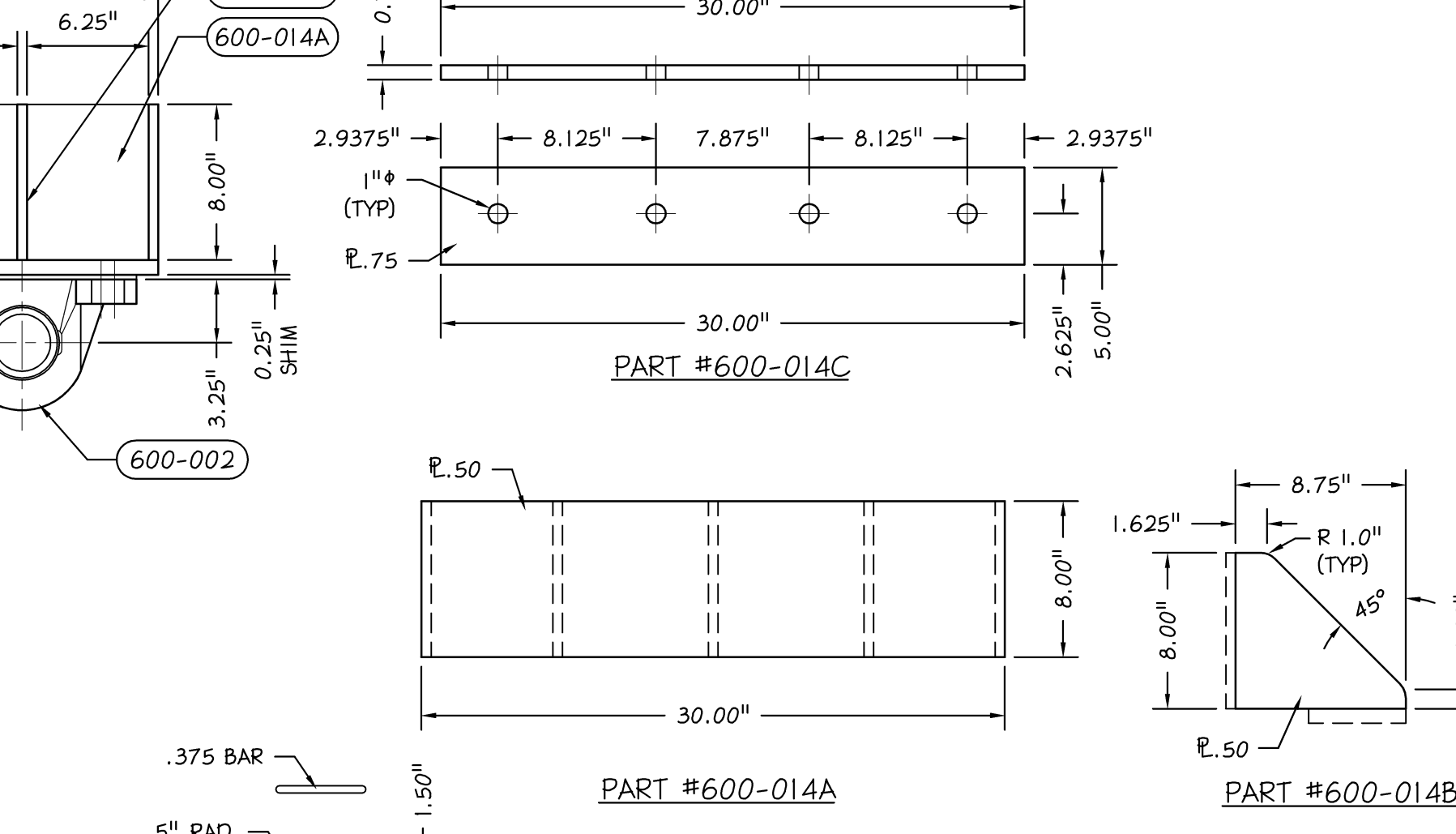
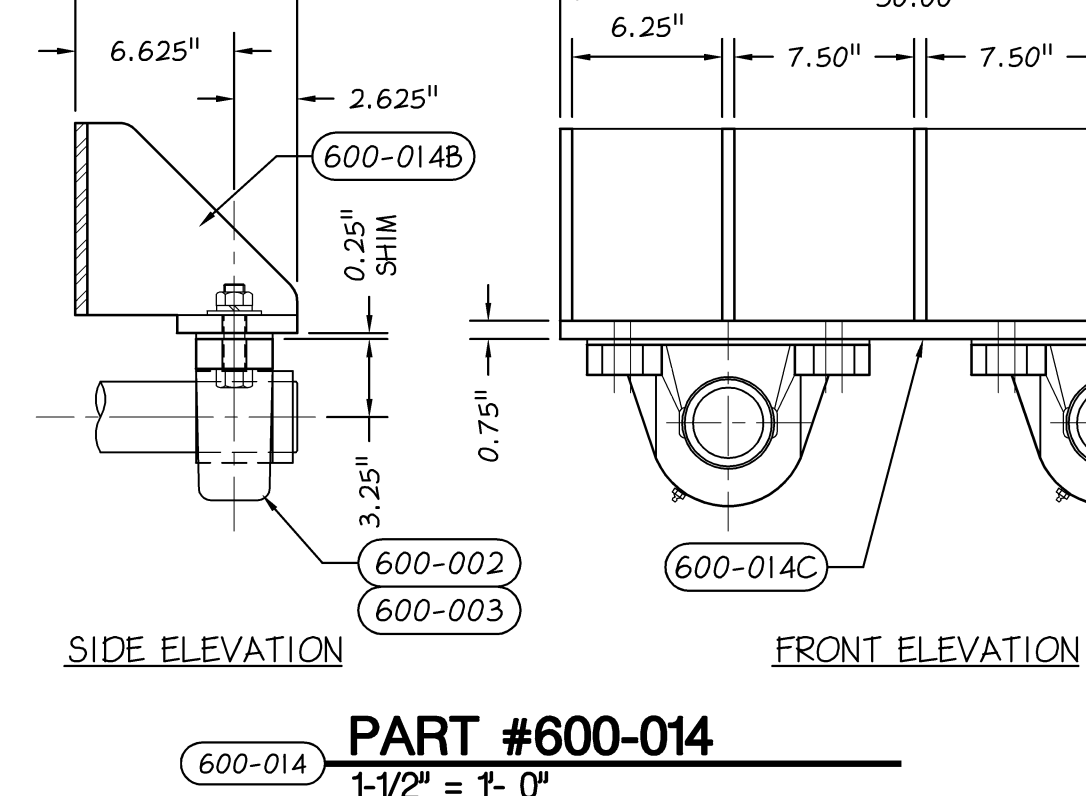
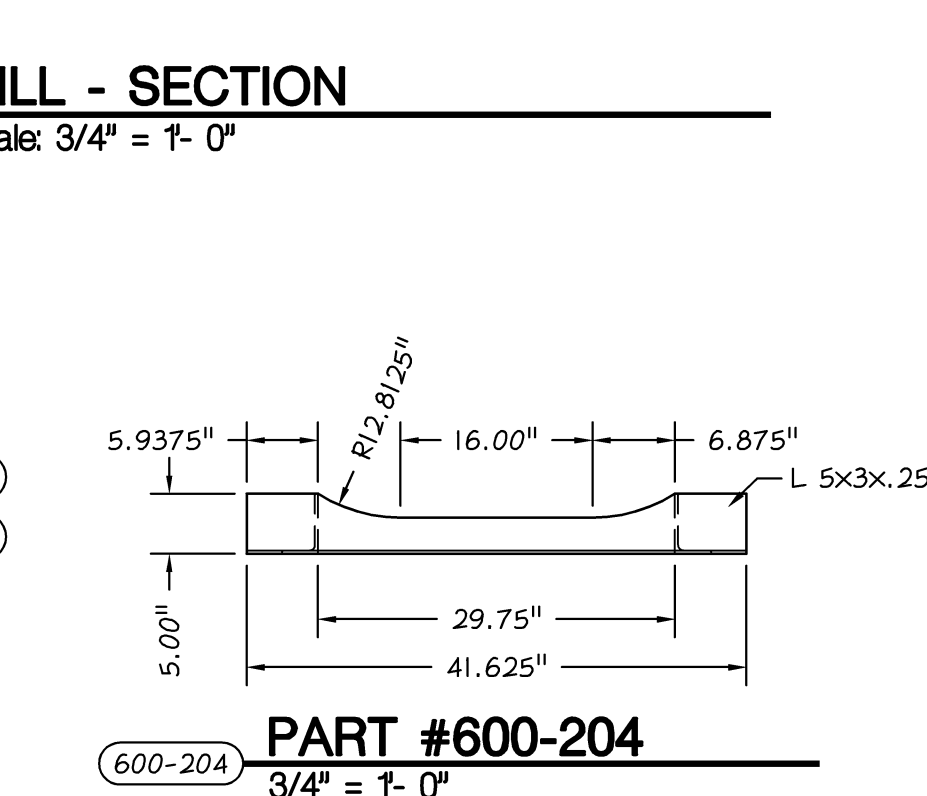
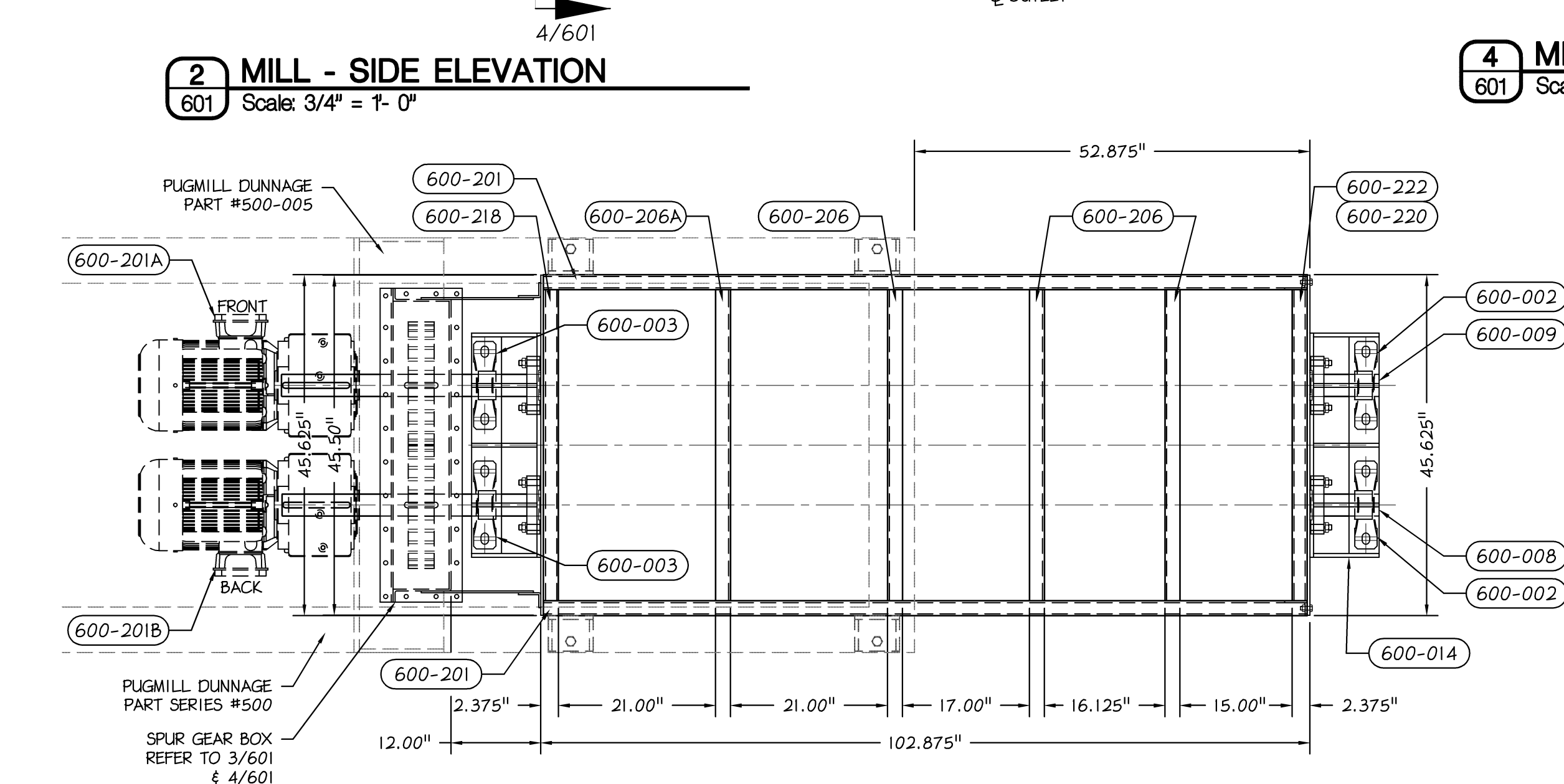
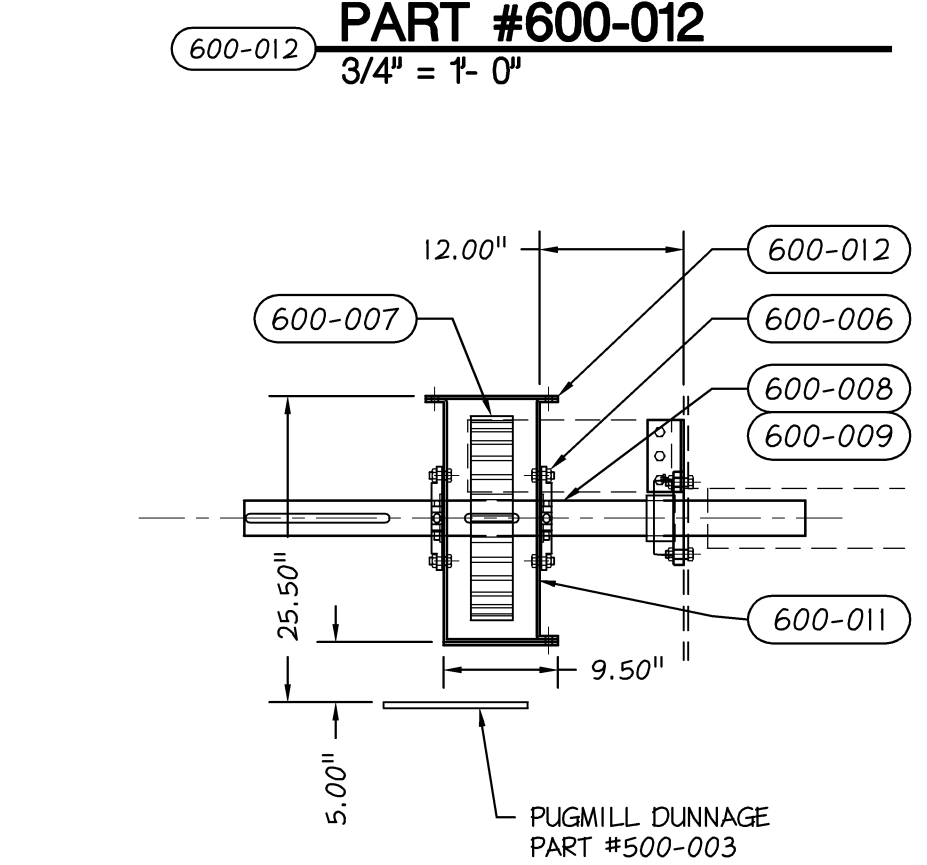
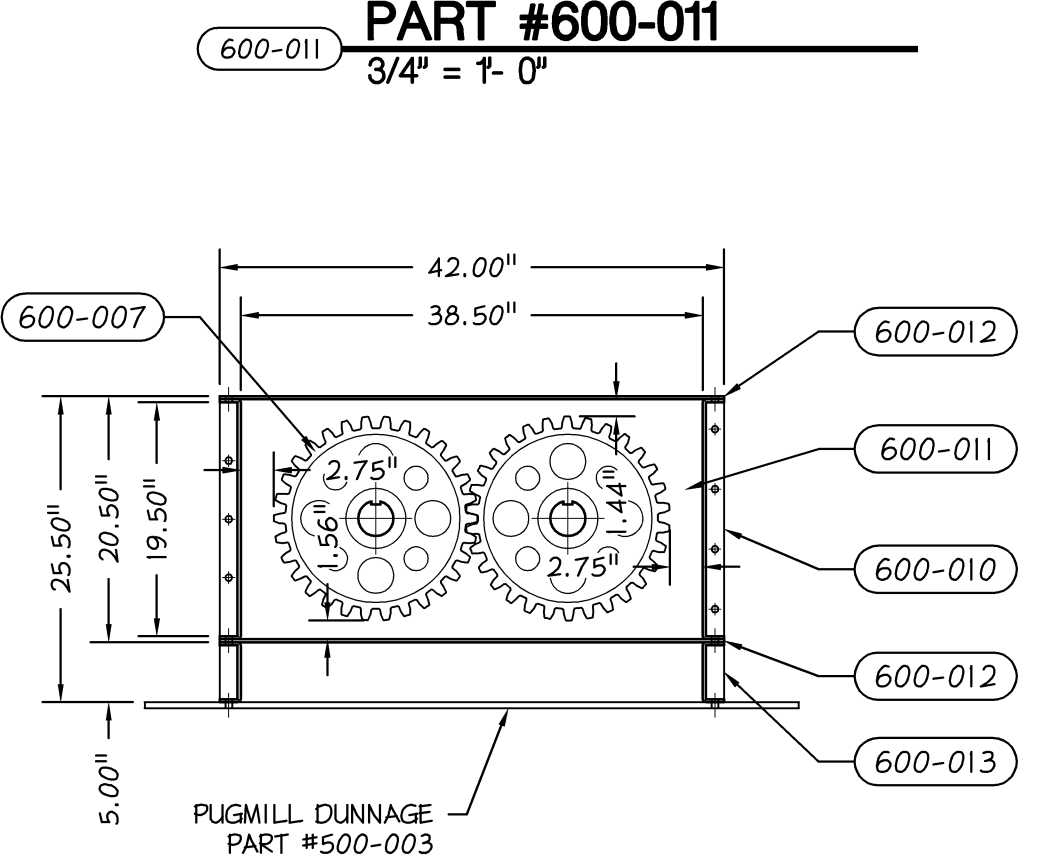
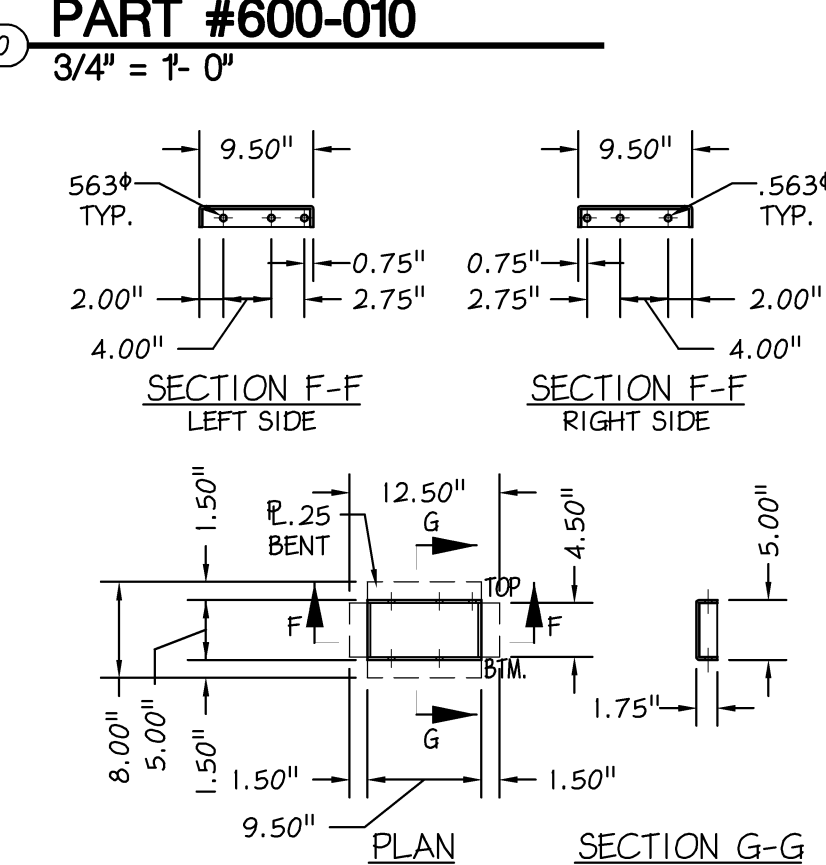
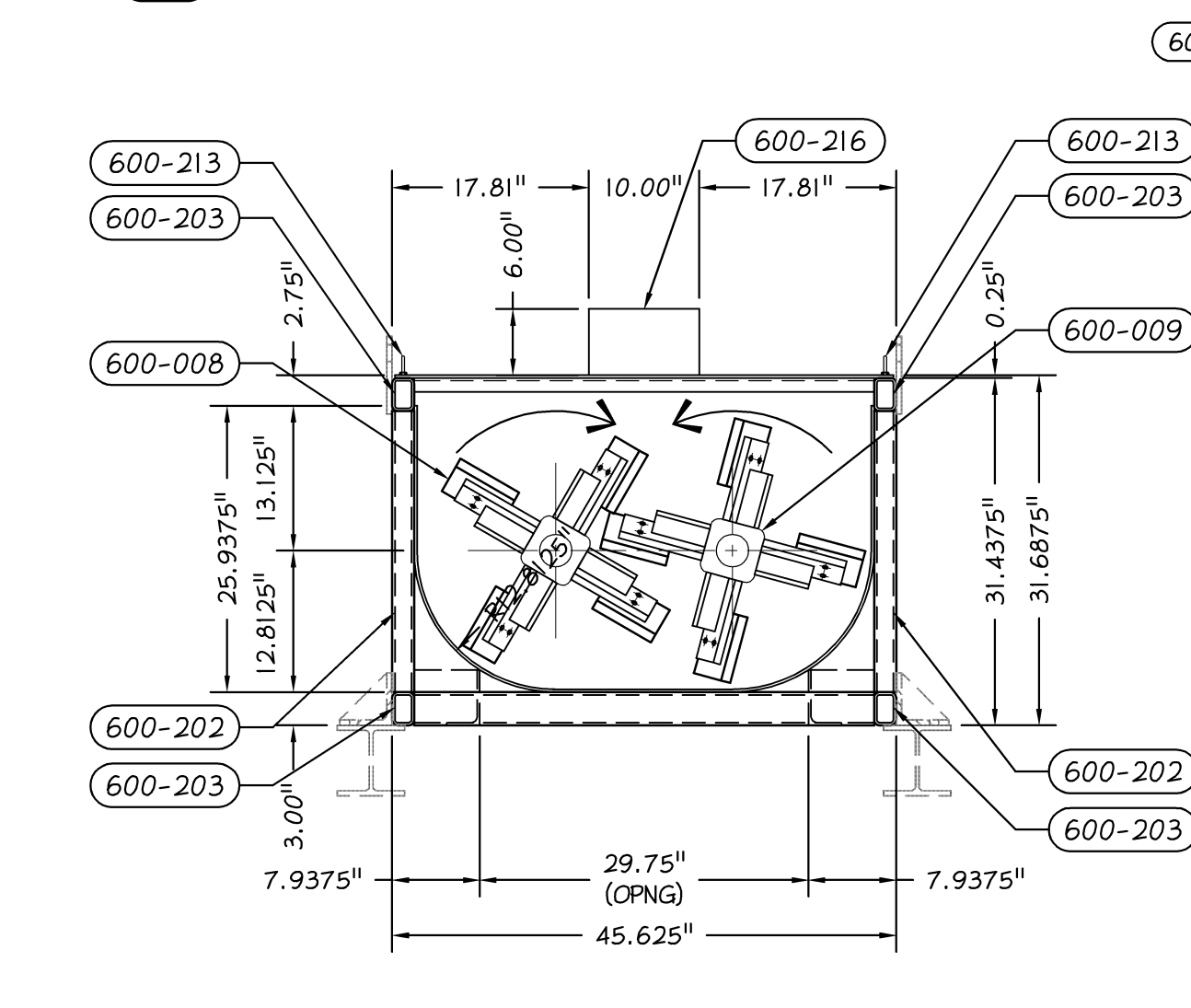
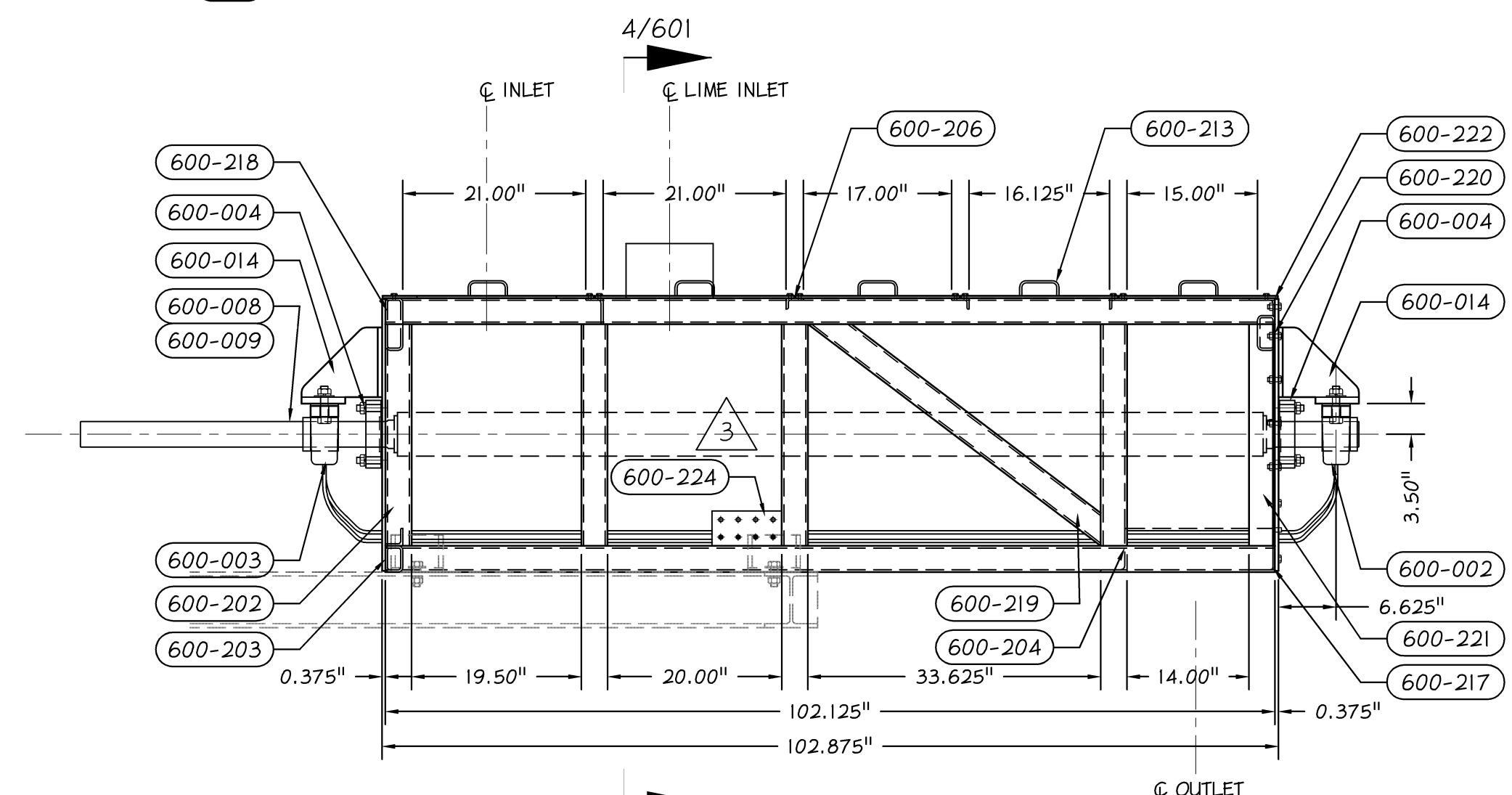
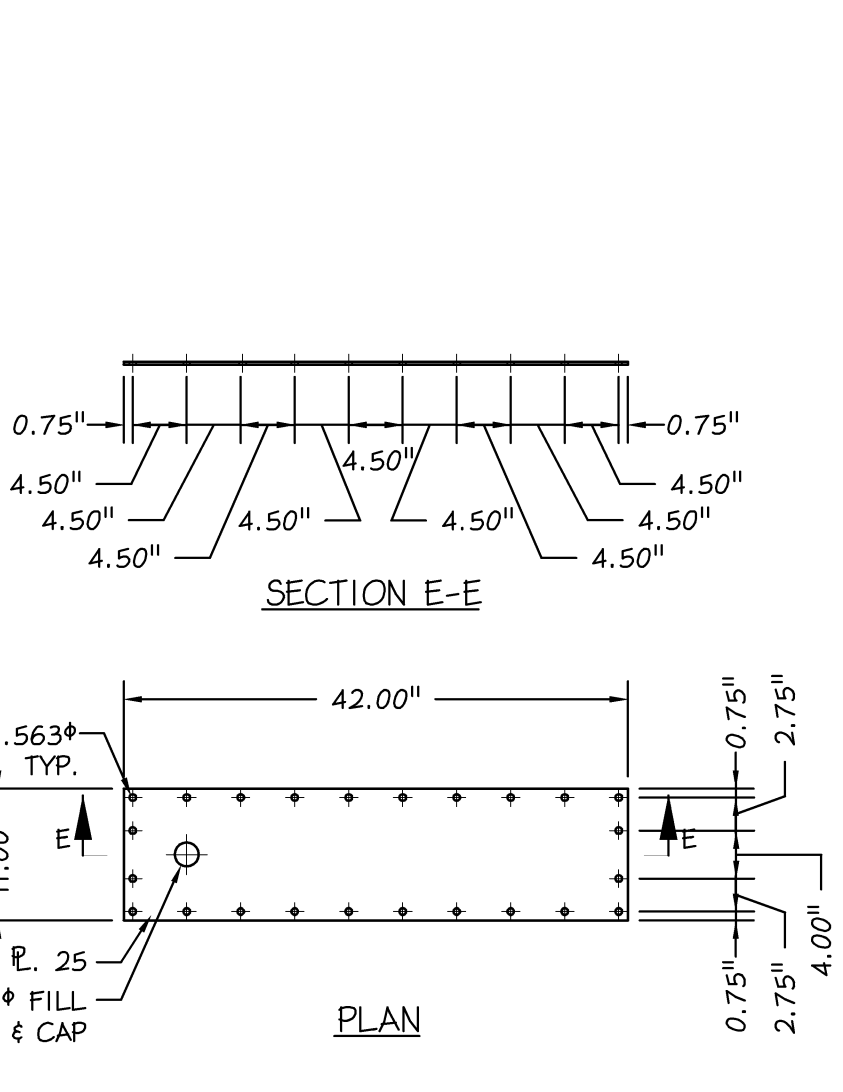
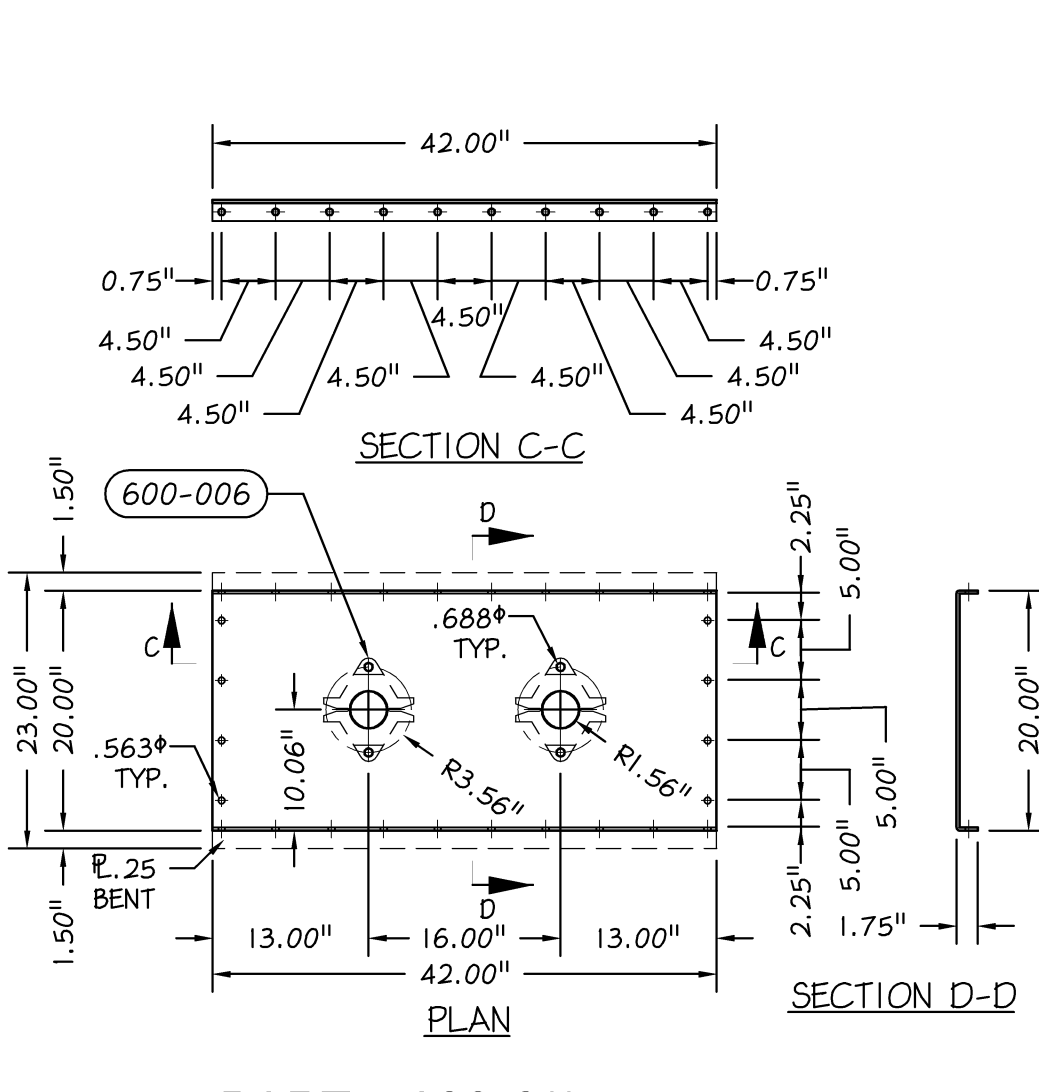
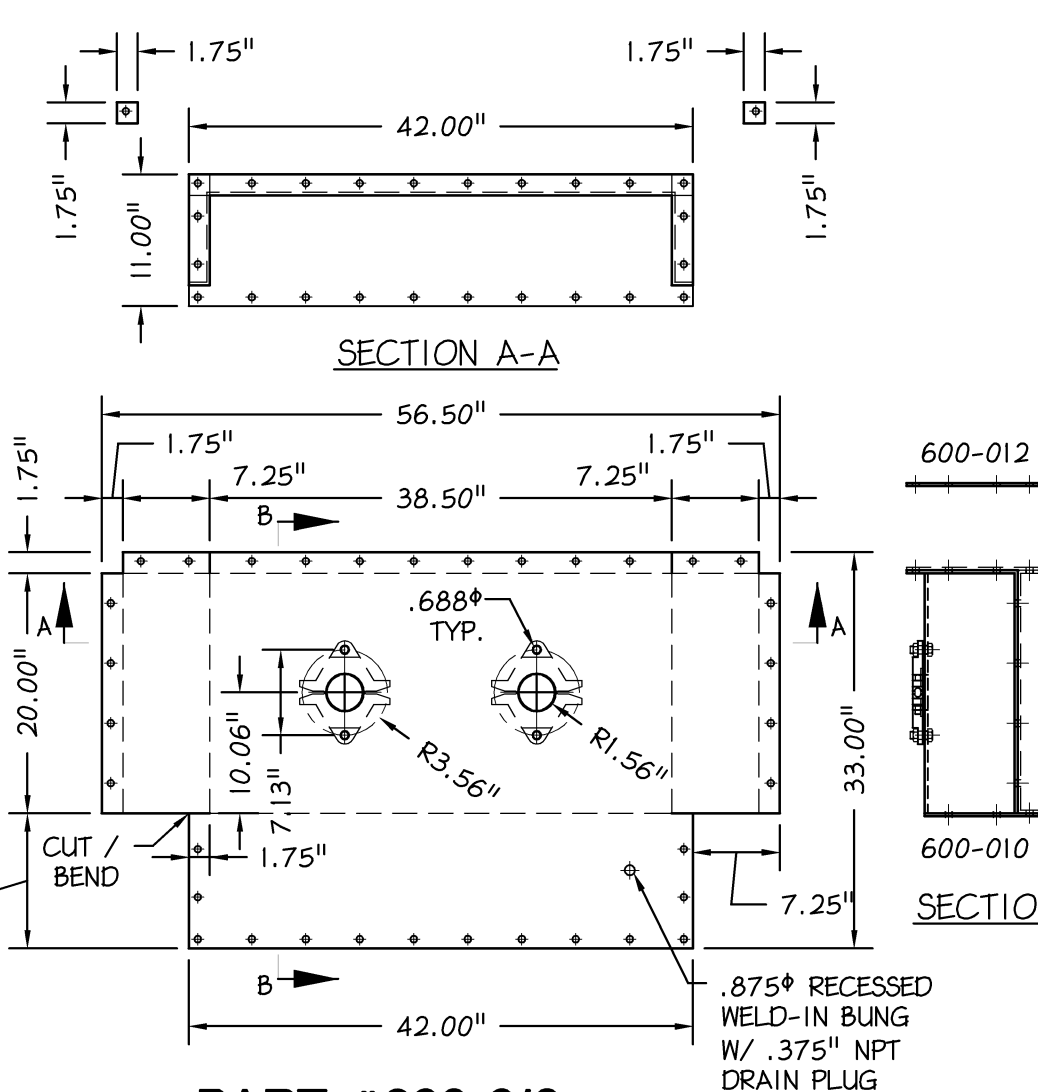
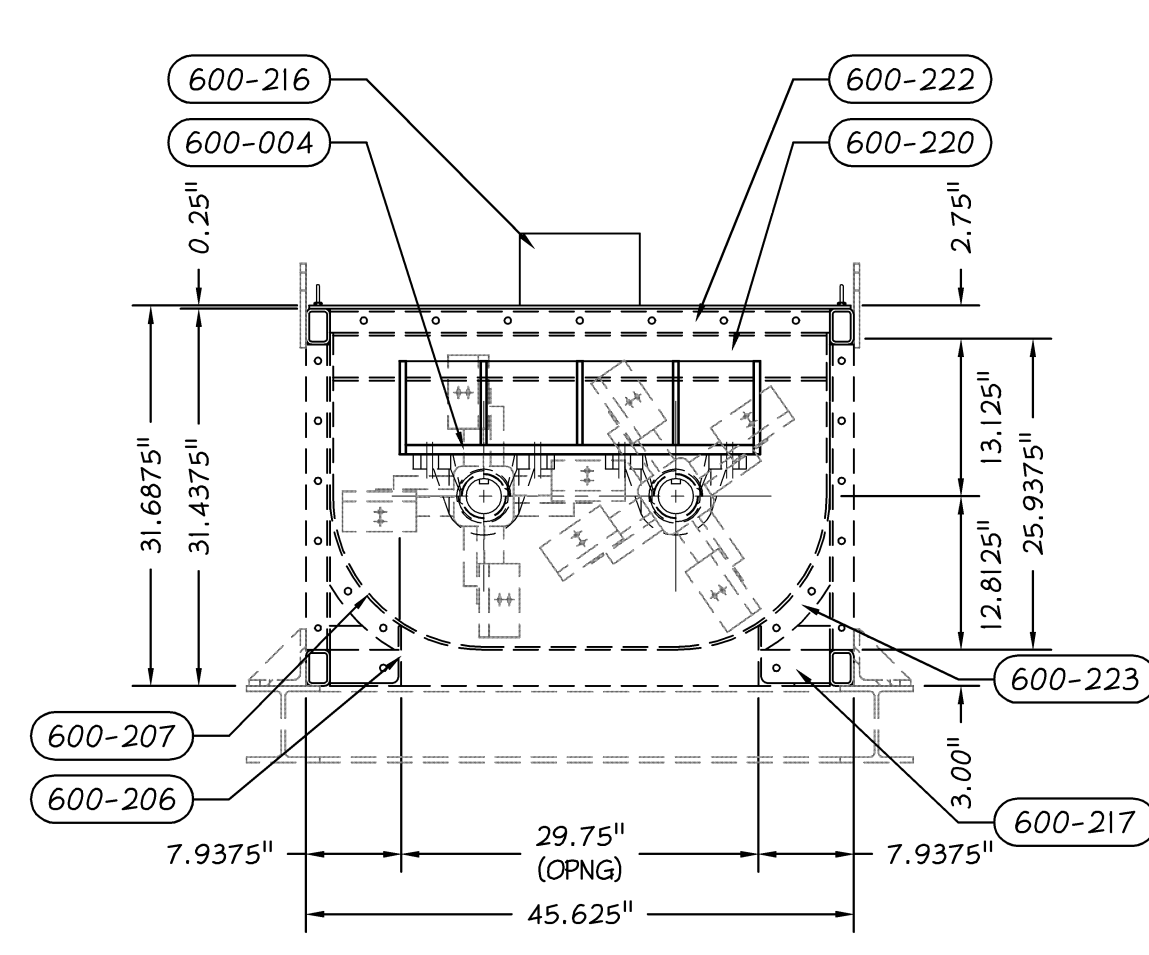
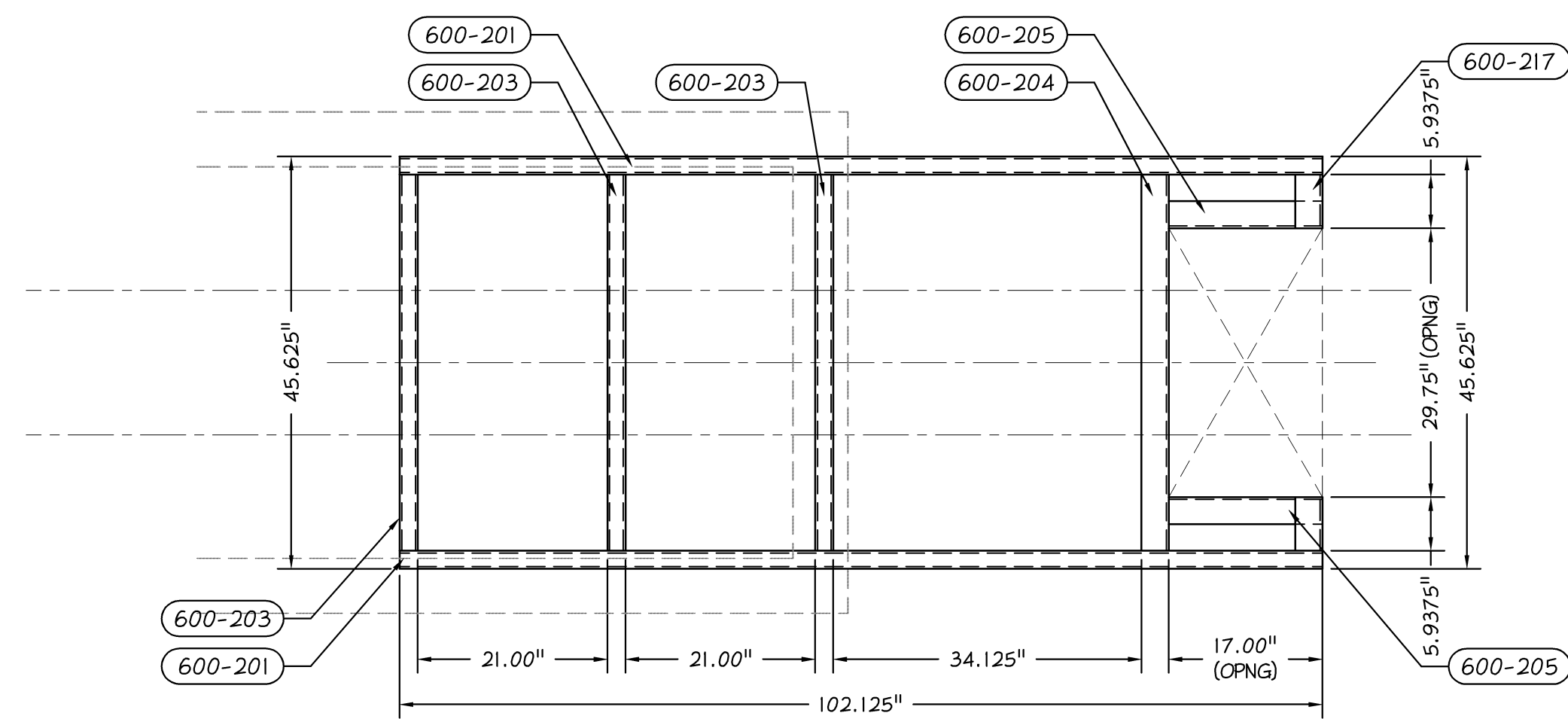
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DATE:	January 28, 2014	DRAWN BY:	MJP	CHECKED BY:	EMH
JOB NUMBER:	B3450-A	APPROVED BY:	RJK	SHEET NO:	501

PREPARED BY:	PREPARED FOR:
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114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	 Betzwood & Associates PC Architects & Engineers Robin J. Kohn, AIA Regis W. Kubit, PE 523 Kimberlin Road, Suite 110 Phoenixville, PA 19380 tel (610) 977-8831 fax (610) 977-8836 email mail@betzwood.com http://www.betzwood.com  SUSQUEHANNA SERVICES, INC.
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- NOTES:
- ALL EXTERIOR PART SURFACES TO BE:
 - SPC-3 POWER TOOL CLEAN
 - (1) COAT RED OXIDE PRIME
 - (1) COAT INDUSTRIAL ENAMEL PER MANF. SPECIFICATIONS. (COLOR TBD BY SUSQUEHANNA SERVICES)
 - DIMENSIONAL LIMITS ARE TO BE: (UNLESS OTHERWISE SPECIFIED)
 - FRACTIONAL ± 0.015625 ; ANGULAR $\pm .25^\circ$
 - DEBURR ALL CORNERS & BREAK ALL SHARP EDGES.
 - ALL WELDING & FABRICATION SHALL FOLLOW AISC STANDARDS.

PUGMILL EQUIPMENT LAYOUT
(TYPICAL CONFIGURATION)

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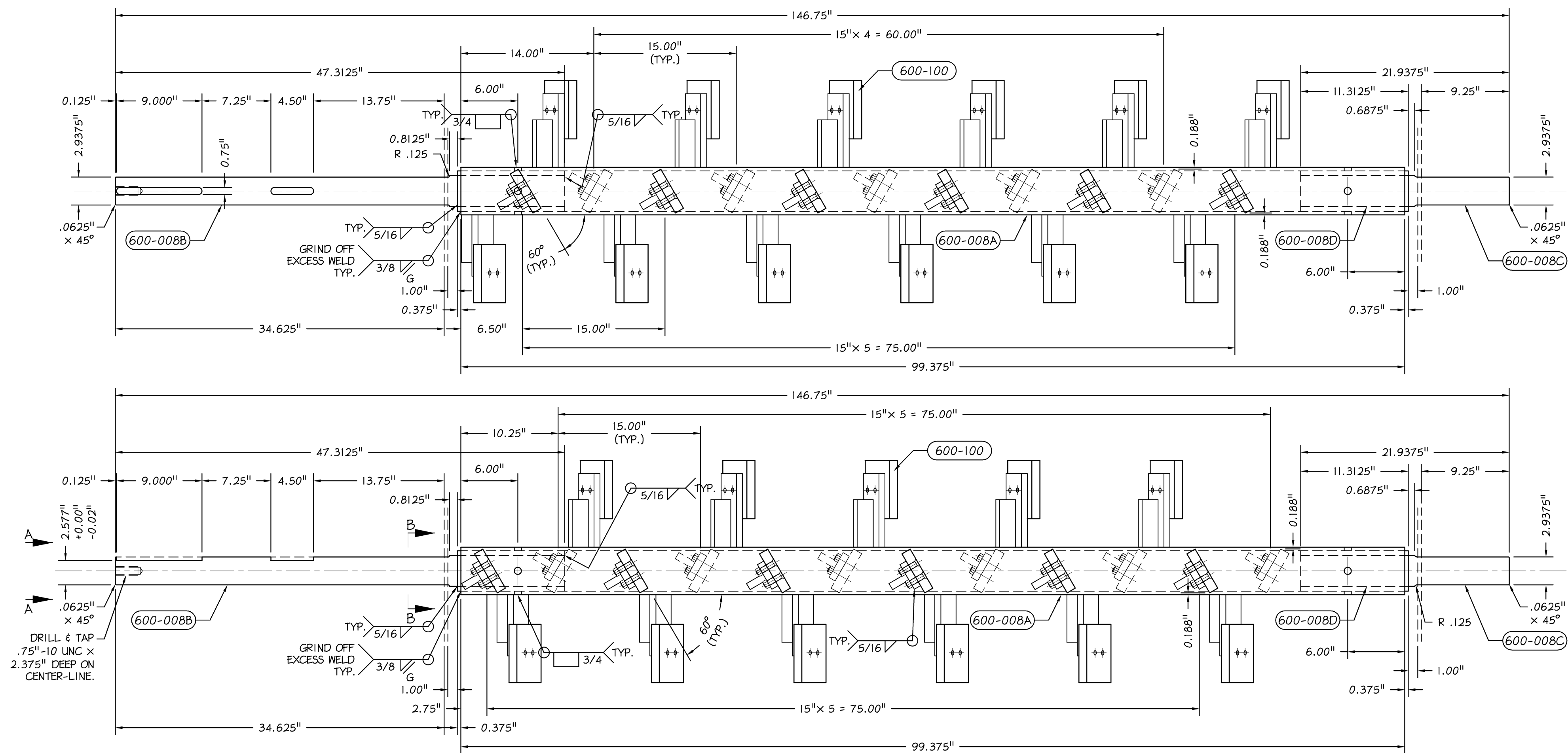
DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 601
PREPARED BY:	PREPARED FOR:	

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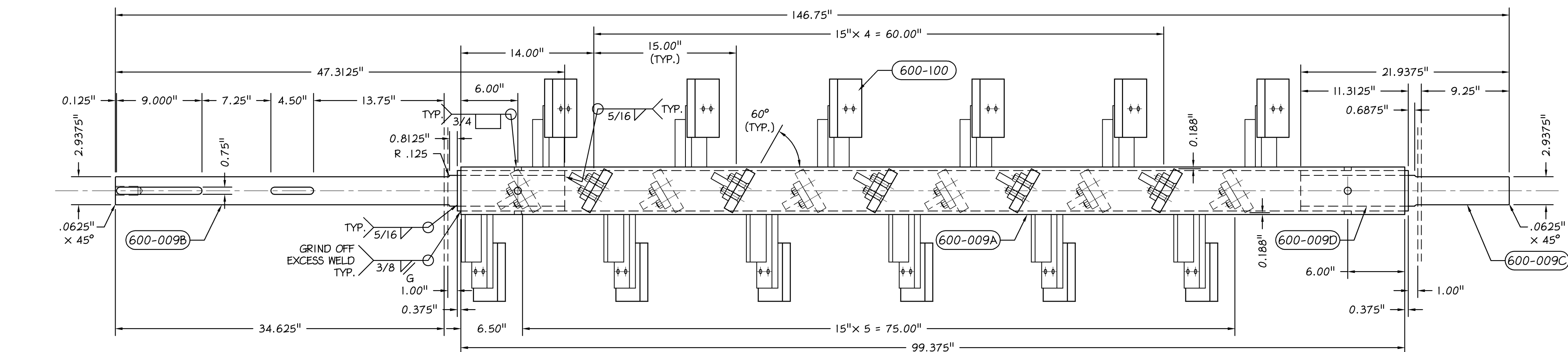
REVIEW SET 01-28-2014

REV	BY	DATE	DESCRIPTION
7	EMH	REVISION SET B - January 28, 2014	
6	EMH	REVISION SET B - January 17, 2014	
5	EMH	REVISION SET B - December 06, 2013	
4	EMH	REVISION SET B - October 21, 2013	
3	MJP	REVISION SET B - September 20, 2013	
2	MJP	REVISION SET B - September 12, 2013	
1	MJP	REVISION SET B - August 23, 2013	



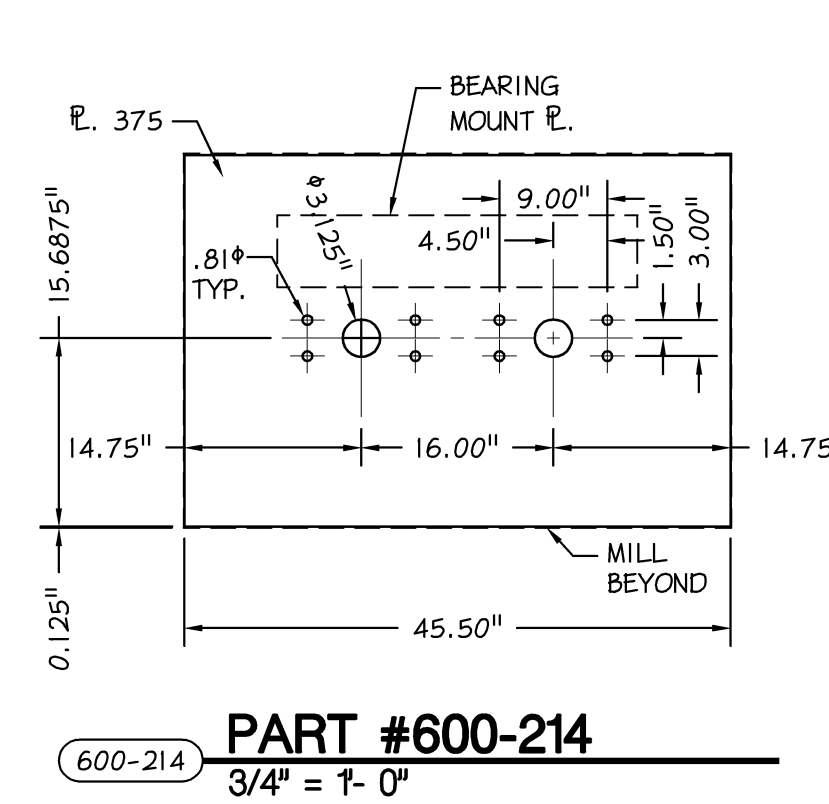
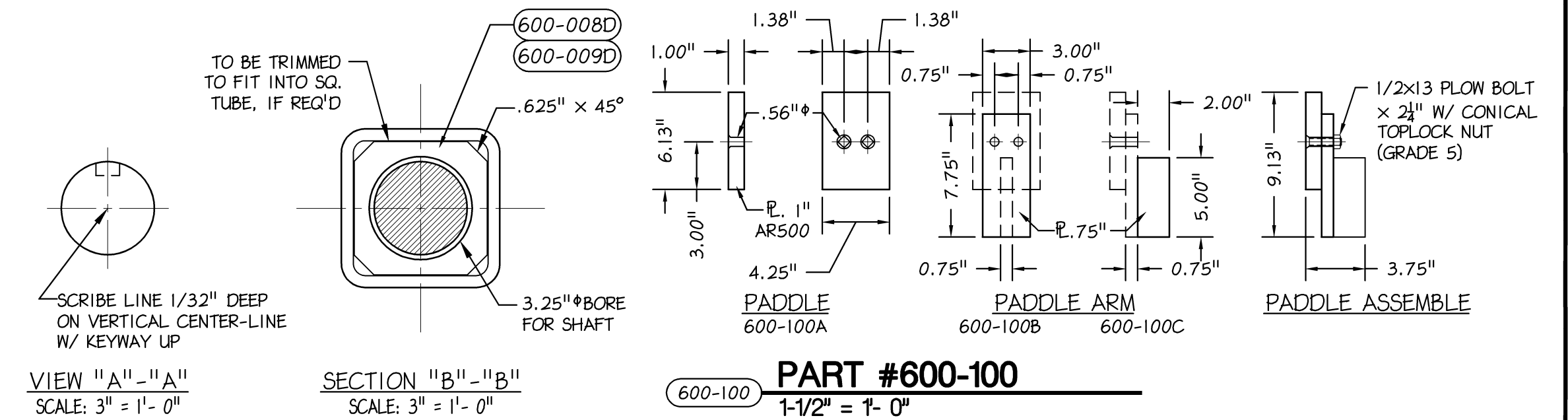
SHAFT (BACK)

PART #600-008
1-1/2" = 1'-0"

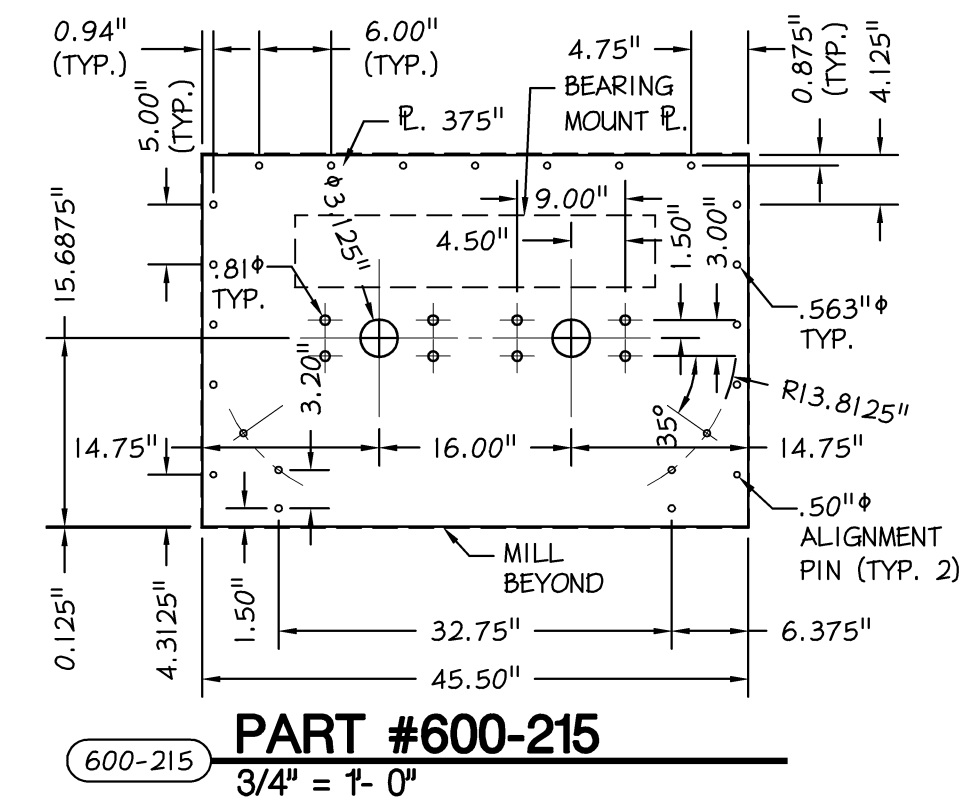


SHAFT (FRONT)

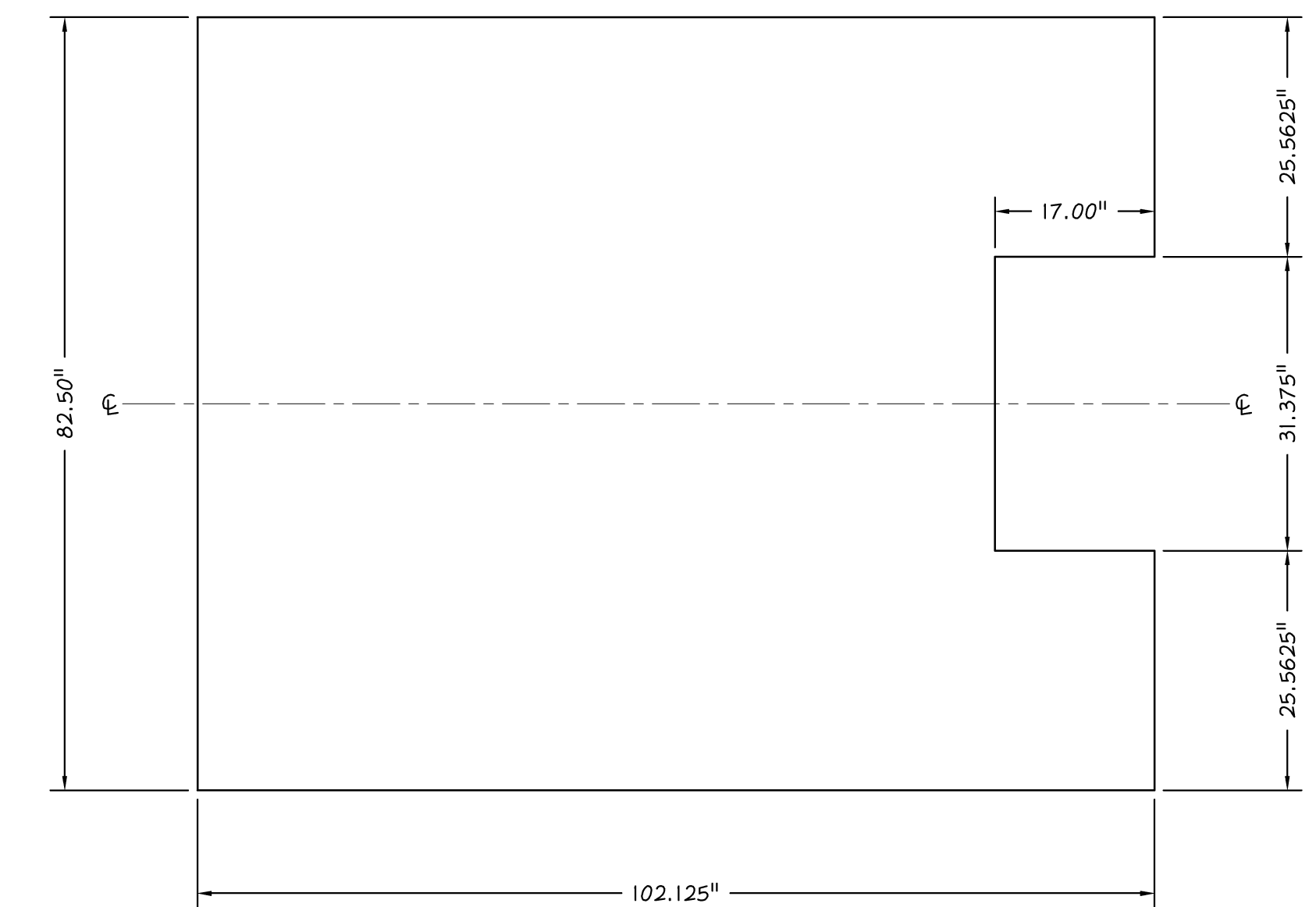
PART #600-009
1-1/2" = 1'-0"



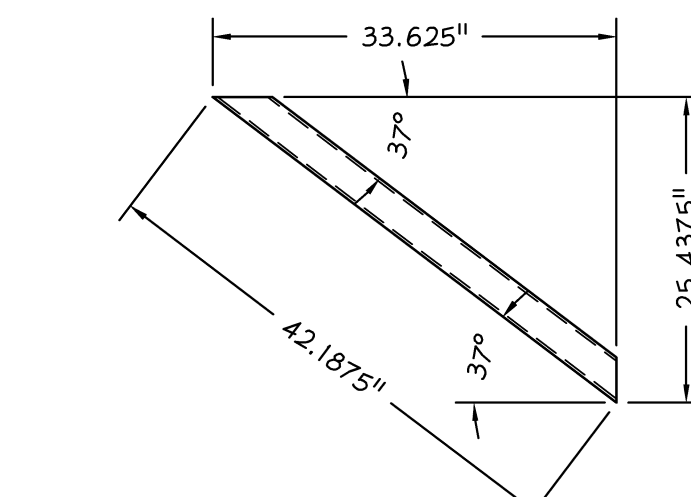
PART #600-214
3/4" = 1'-0"



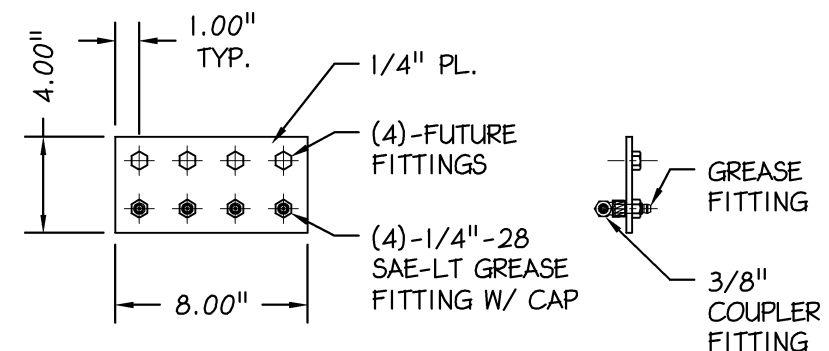
PART #600-215
3/4" = 1'-0"



PART #600-207
3/4" = 1'-0"



PART #600-219
3/4" = 1'-0"



PART #600-224
1 1/2" = 1'-0"

REVIEW SET 01-28-2014

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TITLE: PUGMILL EQUIPMENT LAYOUT (TYPICAL CONFIGURATION)

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DATE: January 28, 2014	DRAWN BY: MJP	CHECKED BY: EMH
JOB NUMBER: B3450-A	APPROVED BY: RJK	SHEET NO: 602
PREPARED BY:	PREPARED FOR:	

Betzwood AssociatesPC
Architects & Engineers

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