



Submittal Review Response

Project Name: Hilo WWTP Rehabilitation and Replacement Project Phase 1
Submittal No.: 12330-001.0
Date: [Publish Date]

Client: County of Hawai'i Carollo Project No.: 203975
Contractor: Nan, Inc.
Submittal Name: Camlock submittal
Reviewed By: Adrienne Fung

SUBMITTAL REVIEW

Review is for general compliance with contract documents. No responsibility is assumed by Carollo for correctness of quantities, dimensions, and details. No deviation or variation is approved unless specifically addressed in these review comments. Refer to Section 01330 for additional requirements. The Contractor shall assume full responsibility for coordination with all other trades and deviations from contract requirements.

Approved	<input type="checkbox"/>	No Exceptions
	<input type="checkbox"/>	Make Corrections Noted - See Comments
	<input type="checkbox"/>	Make Corrections Noted - Confirm
Not Approved	<input checked="" type="checkbox"/>	Correct and Resubmit
	<input type="checkbox"/>	Rejected - See Remarks
Receipt Acknowledged	<input type="checkbox"/>	Filed for Record
	<input type="checkbox"/>	With Comments - Resubmit

Review Comments:

1. Contractor shall edit submittals so that it is clear which product is to be furnished, per Specification Section 01330, 1.07.
2. Confirm that a chain will be provided with the camlock cap, per Specification Section 12330, 2.01.A.3.c.
3. The coupler (300-B-AL) shop drawing is shown as 3" but should be 4", per Key Note 6 on drawing 01-M-01-101. Additionally, the material is shown as aluminum, but should be stainless steel, per Specification Section 12330, 2.01.A.3.c.
4. The adapter (400-AL-SS) has aluminum components. Camlock shall be stainless steel, per Specification Section 12330, 2.01.A.3.c.

CONTRACTOR SUBMITTAL TRANSMITTAL FORM

Owner:	County of Hawaii	Date:	6/5/2025
Contractor:	Nan, Inc.	Project No.:	WW-4705R
Project Name:	Hilo WWTP Phase 1	Submittal Number:	12330-001.0
Submittal Title:	Product Submittal: Camlock		
To:	Engineer		
From:	Nan Inc		

Specification No. and Subject of Submittal / Equipment Supplier			
Spec #:	12330	Subject:	Product Submittal: Camlock
Authored By:	Nitesh Nakirikanti	Date Submitted:	6/5/2025

Submittal Certification	
Check Either (A) or (B):	
<input type="checkbox"/> (A)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings with no exceptions.
<input checked="" type="checkbox"/> (B)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings except for the deviations listed.
Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data, and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.	
General Contractor's Reviewer's Signature: <i>Nitesh N</i>	
Printed Name and Title: Nitesh Nakirikanti, Project Engineer	
In the event, Contractor believes the Submittal response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.	
Firm:	Signature: Date Returned:

PM/CM Office Use
Date Received GC to PM/CM:
Date Received PM/CM to Reviewer:
Date Received Reviewer to PM/CM:
Date Sent PM/CM to GC:

Nan, Inc

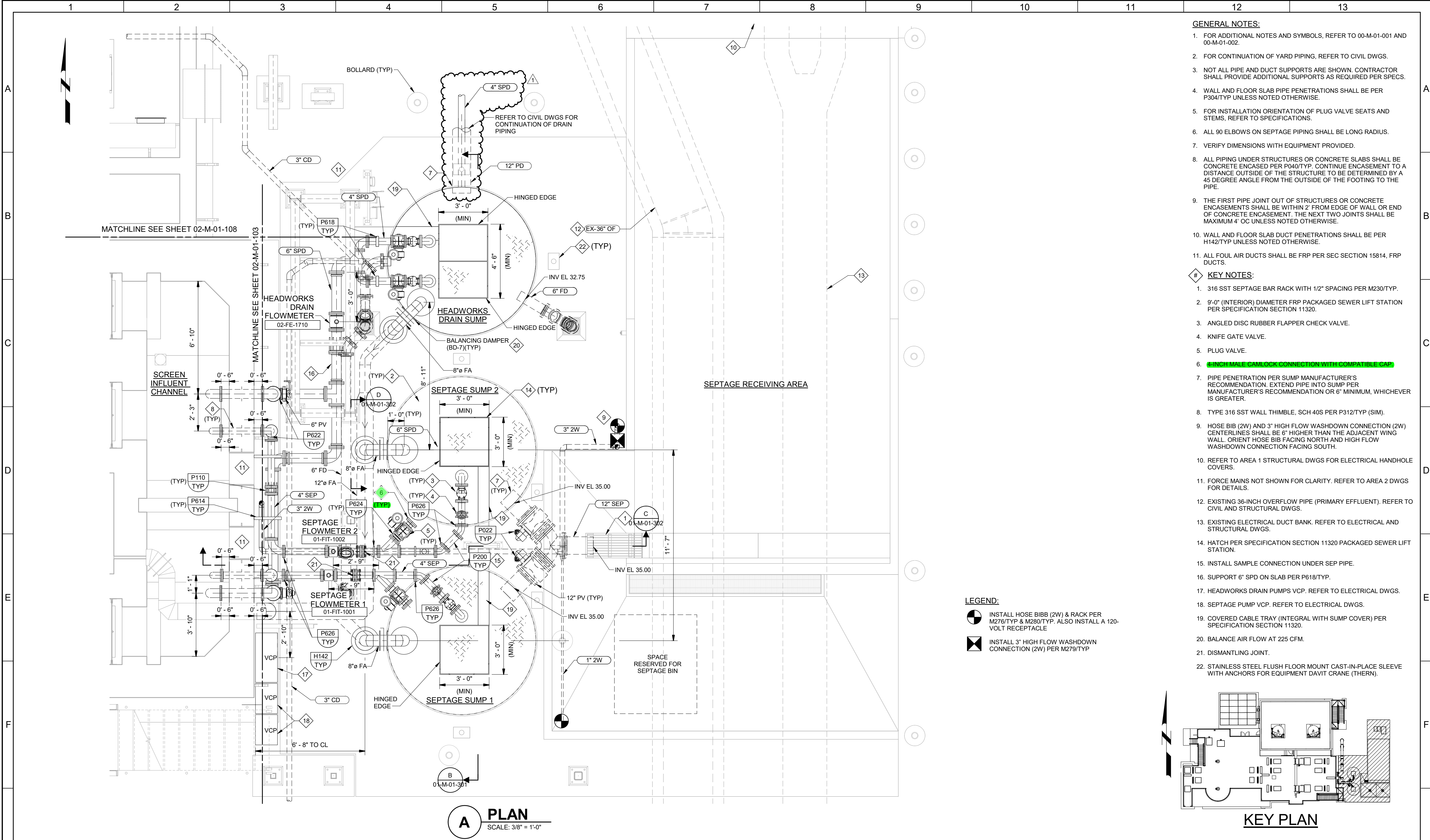
PROJECT: HILO WWTP REHABILITATION
AND REPLACEMENT PROJECT - PHASE 1

JOB NO. WW-4705R

THIS SUBMITTAL HAS BEEN CHECKED BY
THIS CONTRACTOR. IT IS CERTIFIED
CORRECT, COMPLETE, AND IN
COMPLIANCE WITH CONTRACT
DRAWINGS AND SPECIFICATIONS. ALL
AFFECTED CONTRACTORS AND
SUPPLIERS ARE AWARE OF, AND WILL
INTEGRATE THIS SUBMITTAL (UPON
APPROVAL) INTO THEIR OWN WORK.

DATE RECEIVED 06/05/2025
SPECIFICATION SECTION # 12330
SPECIFICATION N/A
PARAGRAPH N/A
DRAWING 01-M-01-101
SUBCONTRACTOR N/A
SUPPLIER Core & Main
MANUFACTURER N/A

CERTIFIED BY: Nitesh Nakirikanti



- GENERAL NOTES:**
- FOR ADDITIONAL NOTES AND SYMBOLS, REFER TO 00-M-01-001 AND 00-M-01-002.
 - FOR CONTINUATION OF YARD PIPING, REFER TO CIVIL DWGS.
 - NOT ALL PIPE AND DUCT SUPPORTS ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS AS REQUIRED PER SPECS.
 - WALL AND FLOOR SLAB PIPE PENETRATIONS SHALL BE PER P304/TYP UNLESS NOTED OTHERWISE.
 - FOR INSTALLATION ORIENTATION OF PLUG VALVE SEATS AND STEMS, REFER TO SPECIFICATIONS.
 - ALL 90 ELBOWS ON SEPTAGE PIPING SHALL BE LONG RADIUS.
 - VERIFY DIMENSIONS WITH EQUIPMENT PROVIDED.
 - ALL PIPING UNDER STRUCTURES OR CONCRETE SLABS SHALL BE CONCRETE ENCASED PER P040/TYP. CONTINUE ENCASEMENT TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45 DEGREE ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
 - THE FIRST PIPE JOINT OUT OF STRUCTURES OR CONCRETE ENCASEMENTS SHALL BE WITHIN 2' FROM EDGE OF WALL OR END OF CONCRETE ENCASEMENT. THE NEXT TWO JOINTS SHALL BE MAXIMUM 4' OC UNLESS NOTED OTHERWISE.
 - WALL AND FLOOR SLAB DUCT PENETRATIONS SHALL BE PER H142/TYP UNLESS NOTED OTHERWISE.
 - ALL FOUL AIR DUCTS SHALL BE FRP PER SEC SECTION 15814, FRP DUCTS.

- KEY NOTES:**
- 316 SST SEPTAGE BAR RACK WITH 1/2" SPACING PER M230/TYP.
 - 9'-0" (INTERIOR) DIAMETER FRP PACKAGED SEWER LIFT STATION PER SPECIFICATION SECTION 11320.
 - ANGLED DISC RUBBER FLAPPER CHECK VALVE.
 - KNIFE GATE VALVE.
 - PLUG VALVE.
 - 4-INCH MALE CAMLOCK CONNECTION WITH COMPATIBLE CAP.
 - PIPE PENETRATION PER SUMP MANUFACTURER'S RECOMMENDATION. EXTEND PIPE INTO SUMP PER MANUFACTURER'S RECOMMENDATION OR 6" MINIMUM, WHICHEVER IS GREATER.
 - TYPE 316 SST WALL THIMBLE, SCH 40S PER P312/TYP (SIM).
 - HOSE BIB (2W) AND 3" HIGH FLOW WASHDOWN CONNECTION (2W) CENTERLINES SHALL BE 6" HIGHER THAN THE ADJACENT WING WALL. ORIENT HOSE BIB FACING NORTH AND HIGH FLOW WASHDOWN CONNECTION FACING SOUTH.
 - REFER TO AREA 1 STRUCTURAL DWGS FOR ELECTRICAL HANDHOLE COVERS.
 - FORCE MAINS NOT SHOWN FOR CLARITY. REFER TO AREA 2 DWGS FOR DETAILS.
 - EXISTING 36-INCH OVERFLOW PIPE (PRIMARY EFFLUENT). REFER TO CIVIL AND STRUCTURAL DWGS.
 - EXISTING ELECTRICAL DUCT BANK. REFER TO ELECTRICAL AND STRUCTURAL DWGS.
 - HATCH PER SPECIFICATION SECTION 11320 PACKAGED SEWER LIFT STATION.
 - INSTALL SAMPLE CONNECTION UNDER SEP PIPE.
 - SUPPORT 6" SPD ON SLAB PER P618/TYP.
 - HEADWORKS DRAIN PUMPS VCP. REFER TO ELECTRICAL DWGS.
 - SEPTAGE PUMP VCP. REFER TO ELECTRICAL DWGS.
 - COVERED CABLE TRAY (INTEGRAL WITH SUMP COVER) PER SPECIFICATION SECTION 11320.
 - BALANCE AIR FLOW AT 225 CFM.
 - DISMANTLING JOINT.
 - STAINLESS STEEL FLUSH FLOOR MOUNT CAST-IN-PLACE SLEEVE WITH ANCHORS FOR EQUIPMENT DAVIT CRANE (THERN).

- LEGEND:**
- INSTALL HOSE BIBB (2W) & RACK PER M276/TYP & M280/TYP. ALSO INSTALL A 120-VOLT RECEPTACLE
 - INSTALL 3" HIGH FLOW WASHDOWN CONNECTION (2W) PER M279/TYP

A PLAN
SCALE: 3/8" = 1'-0"

KEY PLAN

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SECTION 12330

BINS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Equipment for disposal of screenings and grit generated at the Septage Receiving Station (Area 01) and Headworks Facility (Area 02).

1.02 SUBMITTALS

- A. Submit: As specified in Section 01330 - Submittal Procedures and Section 15050 - Common Work Results for Mechanical Equipment.
- B. Product data: Provide at a minimum dimensions, configurations, construction details, joint details, materials of construction, color selection chart, gate, hinges, gasket material, and ball valve.
- C. Shop drawings. Submit in accordance with Section 01330 - Submittal Procedures and Section 15050 - Common Work Results for Mechanical Equipment.
 - 1. Provide letter confirming dewatering roll-off bins are compatible with a 26-foot ST6 Shorty-style roll-off trailer.
- D. Warranty conforming to Section 01783 - Warranties and Bonds.
- E. Operation and Maintenance Manual. Conform to Section 01782 - Operation and Maintenance Manuals.
- F. Manufacturer's installation instructions: Indicate special installation requirements.

1.03 QUALITY ASSURANCE

- A. Manufacturer qualifications: Company specializing in manufacturing the products specified in this Section with minimum 5 years of experience.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 - 1. Deliver vacor truck dewatering bin within the first 365 days of Notice to Proceed.
 - 2. Screenings and grit bin, septage bin, and screenings bypass bin:
 - a. Do not deliver to site until destination space is ready to receive it.
 - b. Deliver prior to start-up and commissioning of the septage and headworks facilities.
 - 3. Deliver bins suitably wrapped or packaged to protect against damage.
 - a. Do not remove protective coverings until time of installation.

- B. Accept bins on site.
- C. Inspect on arrival for damage.
- D. Coordinate size of access and route to place of installation.

1.05 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings.

1.06 COORDINATION

- A. Coordinate bin installation with size, location, and installation of other equipment as indicated on the Drawings.

PART 2 PRODUCTS

2.01 DESIGN REQUIREMENTS

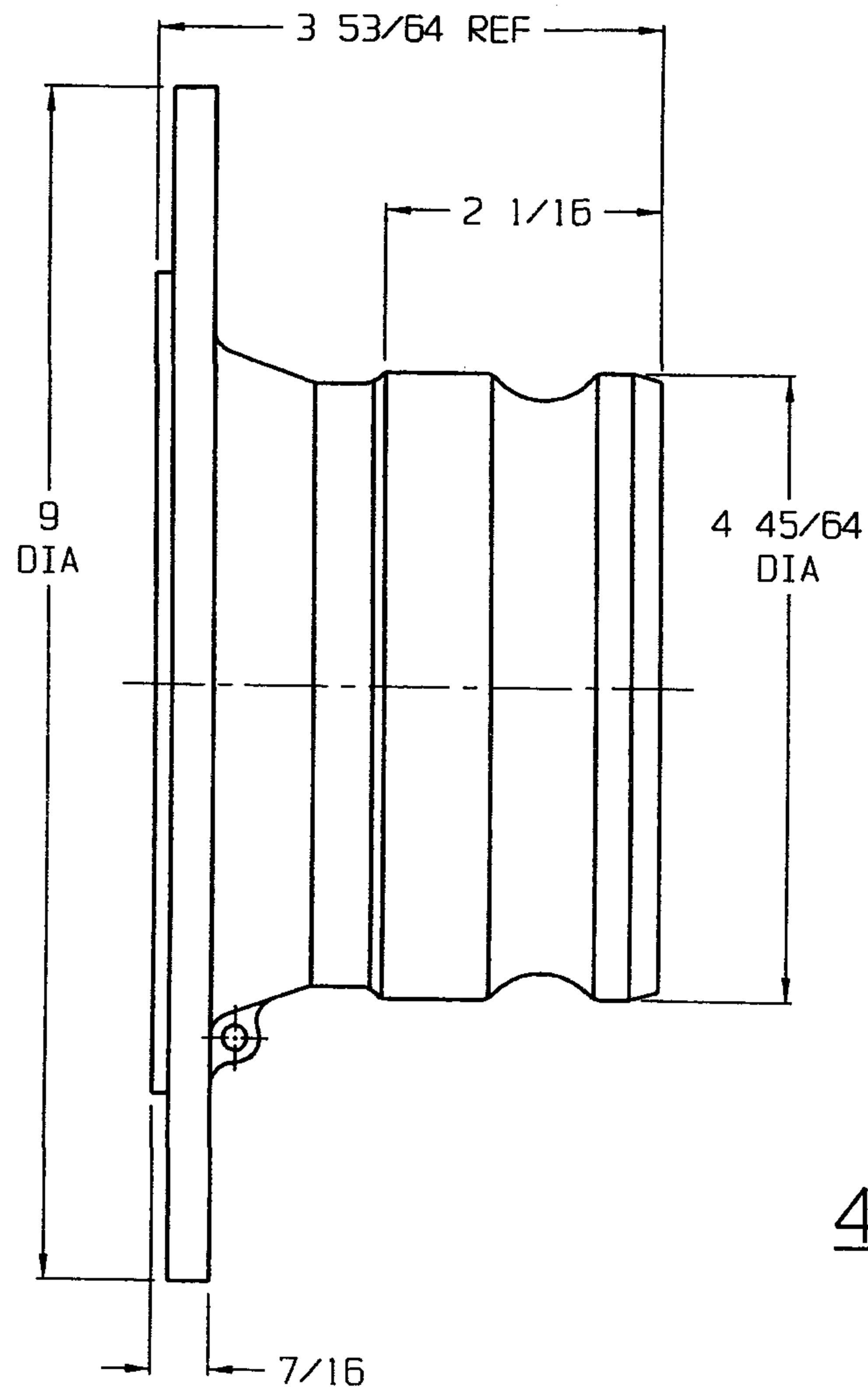
- A. Roll-off dumpster:
 - 1. Manufacturer: The following or approved equal:
 - a. ParkUSA, GritCat Model GCRO-17-T-PCS.
 - 2. Construction:
 - a. Dewatering container shall be constructed of A36 carbon steel plate with 1/4-inch plate floor and 3/16-inch plate walls.
 - b. Round bottom design.
 - c. Compatible with 26-foot ST6 Shorty-style roll-off trailer.
 - 3. Drains:
 - a. Number: Minimum 4 each container.
 - b. Size: 3 inch.
 - ✓ c. Provide 3-inch ball valve with a stainless-steel hose camlock connection with a stainless steel camlock cap and chain.
 - 4. Hook attachments:
 - a. Number: 2 at each end of container to allow pulling from either end.
 - b. Type: Steel D-ring or similar attached to container frame.
 - c. Hook plate thickness: 1.25 inch A36 steel.
 - 5. Gates:
 - a. Latch: adjustable and located on driver's side.
 - b. Hinges: Heavy duty with grease fittings.
 - c. End door seal: Liquid tight with replaceable gasket.
 - 6. Welds:
 - a. Interior: Continuous.
 - b. Exterior: Skip welds with caulking between welds. Caulk shall be 25-year caulking applied before coating.
 - 7. Coating:
 - a. Coat in accordance with Section 09960 - High-Performance Coatings.
 - b. Provide white label lettering as direct by the Engineer and Owner.

Note: submittal doesn't cover ball valve. Only camlock.

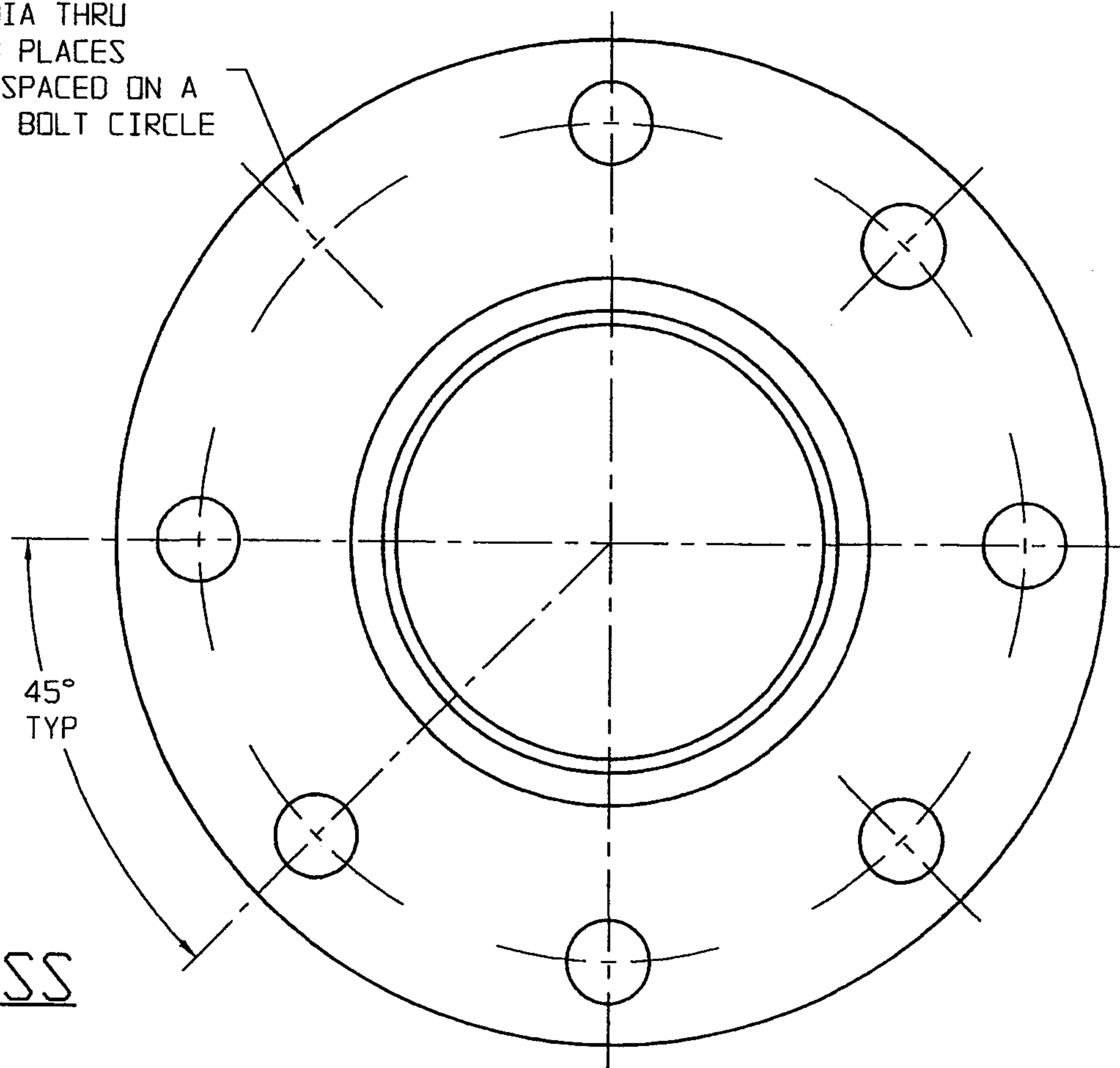
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6/9/09

CUSTOMER DWG



3/4 DIA THRU
TYP 8 PLACES
EQUALLY SPACED ON A
7 1/2 DIA BOLT CIRCLE

400-AL-SS

CUSTOMER DWG

AGREEMENT TO MAINTAIN CONFIDENTIALITY

This drawing is owned by Dixon Valve & Coupling Co. and shall be returned upon demand. It is loaned on condition that it shall not be copied or reproduced or submitted to others without the owners consent. In accepting it subject to this condition the recipient further agrees that this drawing or any design detail or concept disclosed herein shall not be used in any way detrimental to or in competition with the Owner. If the recipient does not agree to the terms of this agreement, they shall return this drawing immediately.



The Right Connection™

DIXON VALVE & COUPLING CO.
U. S. A.

TITLE

4" ADAPTER x 150# ASA FLANGE

DRAWN BY:

KRISTY
08/14/01

CHECKED BY:

MDS
8-14-01

APPROVAL:

JTB
8/15/01

MAT'L

STAINLESS STEEL

2880

Adapter x 150# Flange

Features

- Aluminum and unplated iron flanges are flat face
- Stainless steel flanges are raised face
- Reference dixonvalve.com for flange bolt hole drilling circle standards
- Flanges are designed to mate with 150# flanges
- Flanges have the same bolt hole pattern as an ANSI 150 lb. flange, the thickness may vary

Contractor to identify which product is being proposed, per Specification Section 01330.

B

Size	356T6 Aluminum Part #	Flange Thick.	Unplated Malleable Iron Part #	Flange Thick.	316 Stainless Steel Part #	Flange Thick.
1"	---	---	---	---	100-AL-SS	9/16"
1-1/2"	---	---	---	---	150-AL-SS	11/16"
2"	200-AL-AL	3/4"	---	---	200-AL-SS	3/8"
3"	300-AL-AL	5/8"	300-AL-MI	5/8"	300-AL-SS	7/16"
4"	400-AL-AL	5/8"	---	---	400-AL-SS	7/16"
6"	600-AL-AL	5/8"	---	---	600-AL-SS	5/8"
8"	800-AL-AL ¹	1-1/8"	---	---	---	---

¹ Part is produced as a welded fabrication

NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.



Adapter x 150# ANSI Flange

Feature

- Global product made to Dixon® specifications

Size	316 Stainless Steel Part #	Flange Thickness
2"	200-AL-SSANSI	3/4"
3"	300-AL-SSANSI	15/16"

NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.



Dixon Coupler x 150# Flange

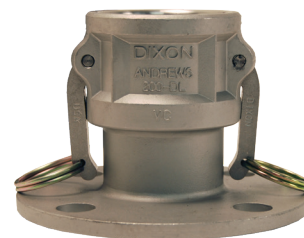
Feature

- Nitrile rubber gasket standard, other gaskets available on pages 68 - 71

Size	356T6 Aluminum Part #	Flange Thick	316 Stainless Steel Part #	Flange Thick.
1"	---	---	100-DL-SS	21/32"
1-1/2"	---	---	150-DL-SS	25/32"
2"	200-DL-AL	3/4"	200-DL-SS	7/16"
3"	300-DL-AL	15/16"	300-DL-SS	7/16"
4"	400-DL-AL	15/16"	400-DL-SS	7/16"
6"	600-DL-AL	1"	600-DL-SS	5/8"
8"	800-DL-AL ¹	1-1/8"	---	---

¹ Part is produced as a welded fabrication

NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.



EZ Boss-Lock Coupler x 150# Flange

Feature

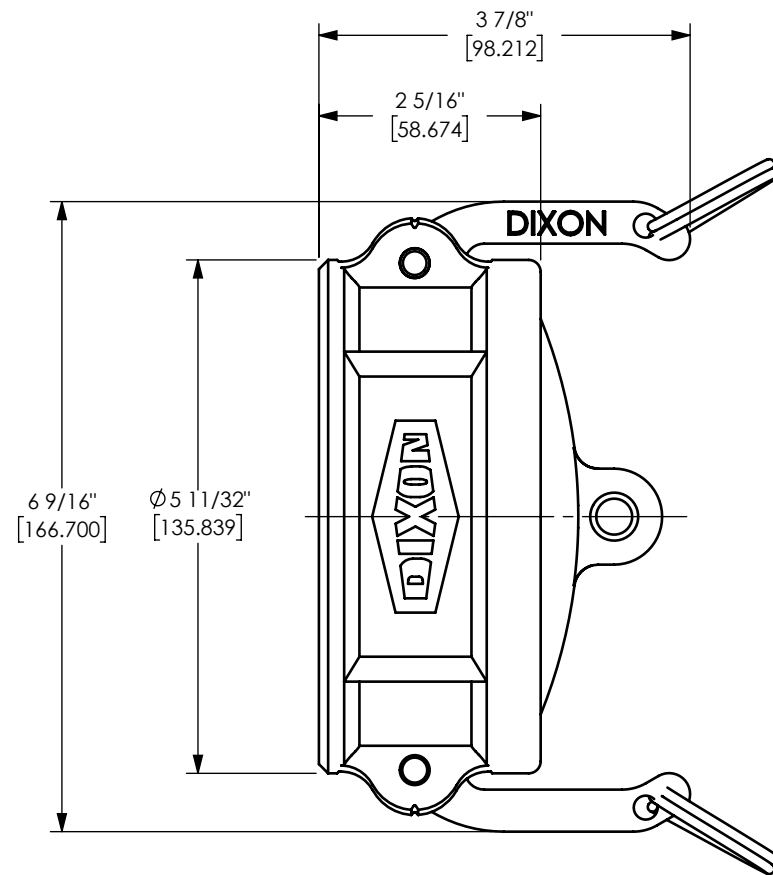
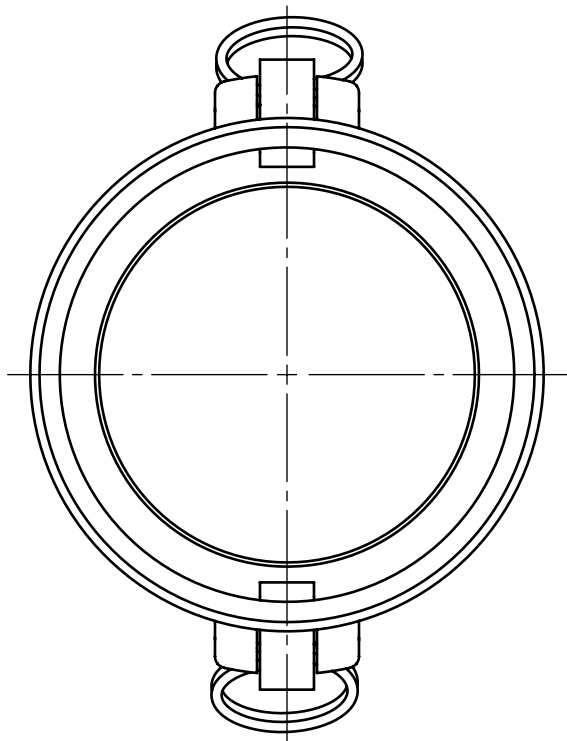
- Nitrile rubber gasket standard, other gaskets available on pages 68 - 71

Size	316 Stainless Steel Part #	Flange Thickness
1"	RDL100EZ ¹	9/16"
1-1/2"	RDL150EZ ¹	11/16"
2"	RDL200EZ	7/16"
3"	RDL300EZ	7/16"
4"	RDL400EZ	7/16"
6"	RDL600EZ ¹	1"

¹ Parts are produced as a welded fabrication

NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.





DIMENSION ACROSS OPEN CAM ARMS: 11 3/32"



The Right Connection™

dixonvalve.com

PROPRIETARY AND CONFIDENTIAL

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THE RIGHT CONNECTION™

TITLE:

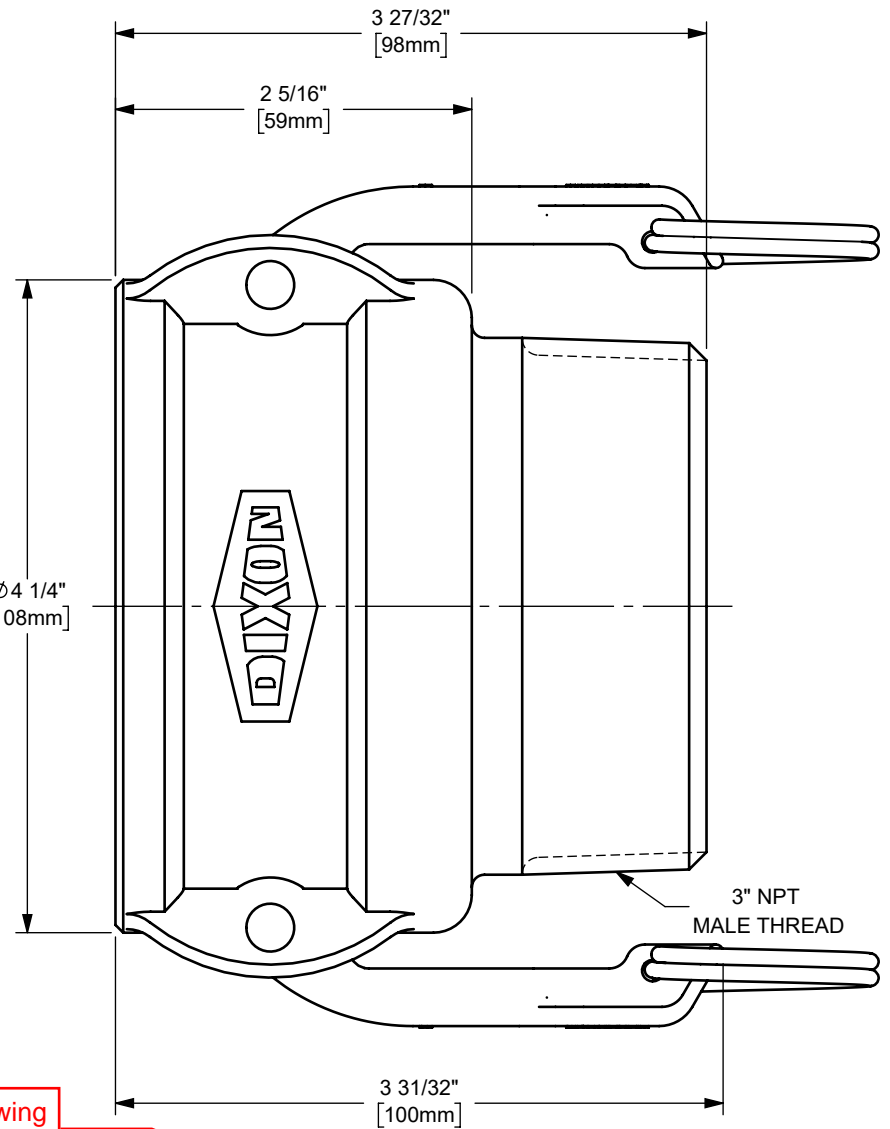
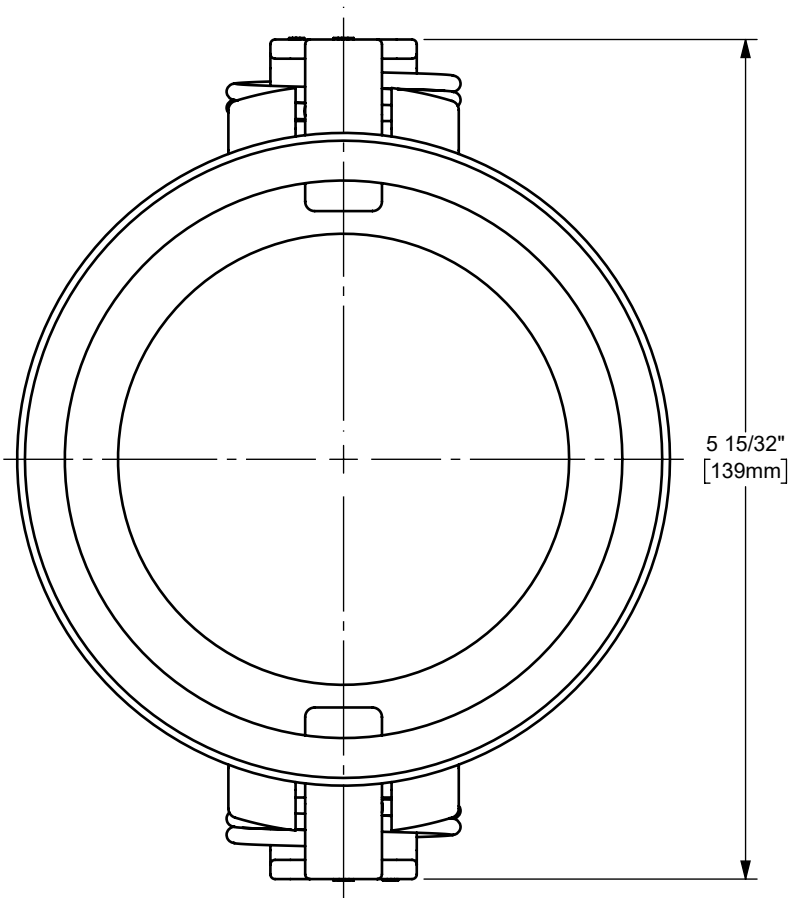
4" DIXON™ DUST CAP
CAM AND GROOVE FITTING

MATERIAL:

STAINLESS STEEL

PART NUMBER:

400-DC-SS



Sizing to be 4", to match piping on drawing 01-M-01-101.

DISTANCE ACROSS OPEN CAM ARMS: 10 3/32"



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Material to be stainless steel, per Specification Section 12330.

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TITLE: 3" DIXON™ COUPLER x
MALE NPT END
CAM AND GROOVE FITTING

MATERIAL: ALUMINUM

PART NUMBER: **300-B-AL**

Contractor to identify which product is being proposed, per Specification Section 01330.

Dixon® Type B Couplers

Coupler x Male NPT

Features

- Couplers are supplied standard with a nitrile rubber gasket, other gasket types are available on pages 68 - 71
- 1/2" Dixon coupler has only one cam arm
- Pull rings are not supplied on 1/2" - 1" Dixon couplings

Size	356T6 Aluminum Part #	Aluminum Hard Coat Part #	Brass Part #
1/2"	50-B-AL	---	50-B-BR
3/4"	75-B-AL	---	75-B-BR
1"	100-B-AL	---	100-B-BR
1-1/4"	125-B-AL	---	---
1-1/2"	150-B-AL	150-B-ALH	150-B-BR
2"	200-B-AL	200-B-ALH	200-B-BR
2-1/2"	250-B-AL	---	---
3"	300-B-AL	300-B-ALH	300-B-BR
4"	400-B-AL	400-B-ALH	400-B-BR
5"	500-B-AL	---	---
6"	600-B-AL	600-B-ALH	---
8"	800-B-AL ^{1,2}	---	---

¹ Dixon and Boss-Lock cam & groove couplings do not interchange in the 8" size

The 8" Dixon design has 4 cam arms

² Parts are produced as a welded fabrication.

Size	Unplated Malleable Iron Part #	316 Stainless Steel Part #
1/2"	---	50-B-SS
3/4"	---	75-B-SS
1"	---	100-B-SS
1-1/2"	150-B-MI ¹	150-B-SS
2"	200-B-MI	200-B-SS
2-1/2"	---	250-B-SS
3"	300-B-MI ¹	300-B-SS
4"	400-B-MI	400-B-SS
6"	---	600-B-SS

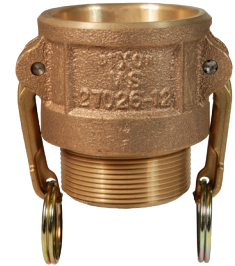
¹ Ductile iron



356T6 aluminum



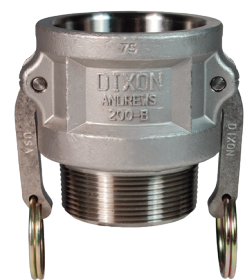
aluminum hard coat



brass



unplated malleable iron



316 stainless steel

B