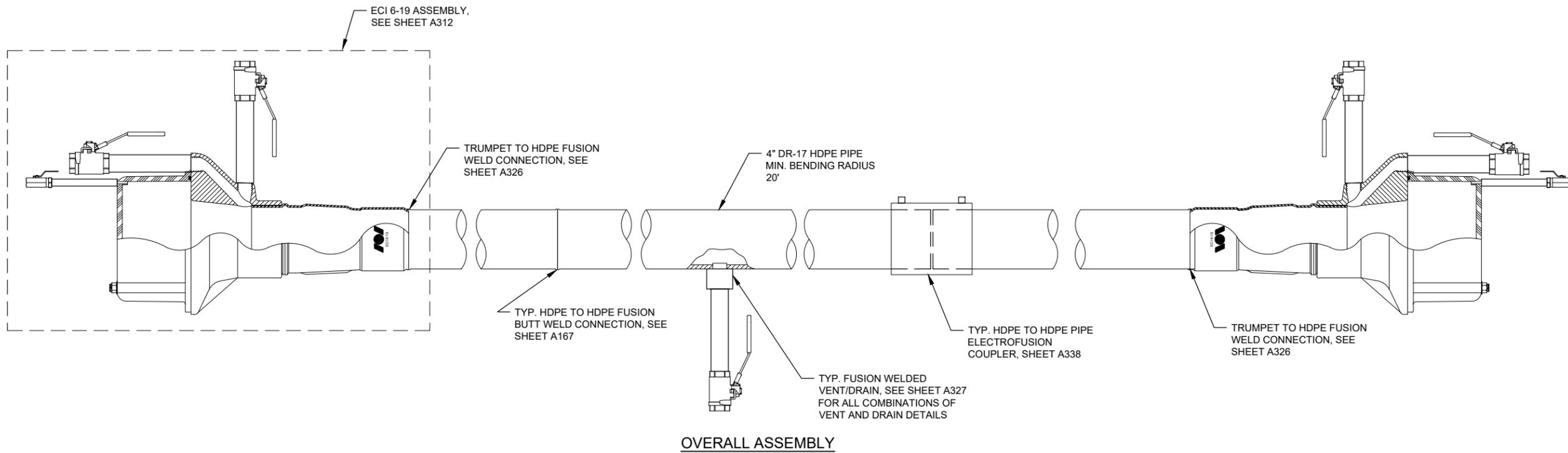


ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal

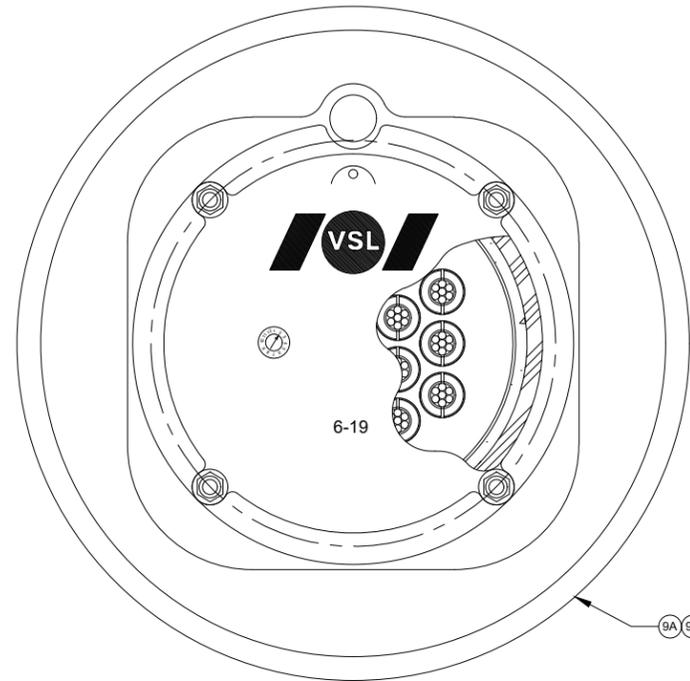


OVERALL ASSEMBLY

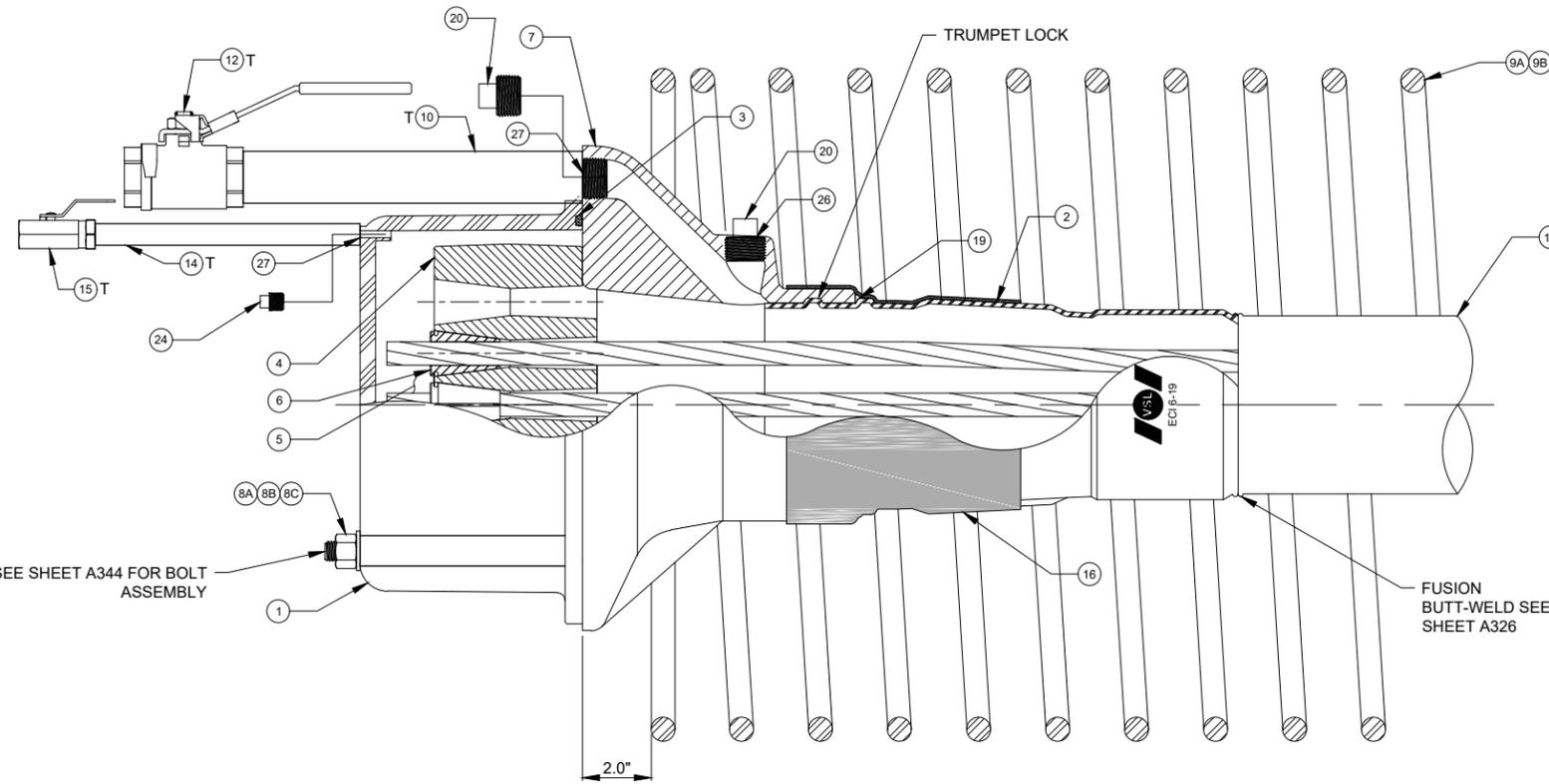
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PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	1	SCALE:	NTS
TITLE:		ECI 6-19 OVERALL ASSEMBLY WITH FLEXIBLE FILLER	
SHEET NO:		A313	
FOR APPROVAL		CDL	ZX
NO		BY	CHK
DESCRIPTION		DATE	
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 <b>structural TECHNOLOGIES</b> A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET	
STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76156			

ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



END VIEW



ELEVATION VIEW

NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	6-19 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC61902
2	1	ECI 6-19 TRUMPET	HDPE	02BP4322
3	1	6-19 ANCHORAGE CAP O-RING	HNBR	02WX6020
4	1	ECI 6-19 ANCHOR HEAD	A536 GR 80-55-06	02AH0038
5	-	FLEXIBLE FILLER	FDOT APL	-
6	19	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	NCS 6-19 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6038V
8A	1 SET	1/2"-13 THREADED ROD X 7"	(316L) STAINLESS	02WX5033D
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5033D
8C	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5033D
9A	1	SPIRAL ECI 6-19 5500 (#5 15" DIA., 10 1/2 TURNS, 2" PITCH)	A615 GR 60	02BP0094
9B	1	SPIRAL ECI 6-19 3500 (#5 17" DIA., 11 1/2 TURNS, 2" PITCH)	A615 GR 60	02BP0093
10	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-
12	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
15	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
16	1	CANUSA KLNN-115 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0514
17	-	4" DR-17 PIPE	HDPE	-
19	-	BONDUIT - SEAL AID 1/4" ALL AROUND	-	-
20	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
24	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
26	-	BONDUIT	-	-
27	-	SILICONE GREASE	-	-

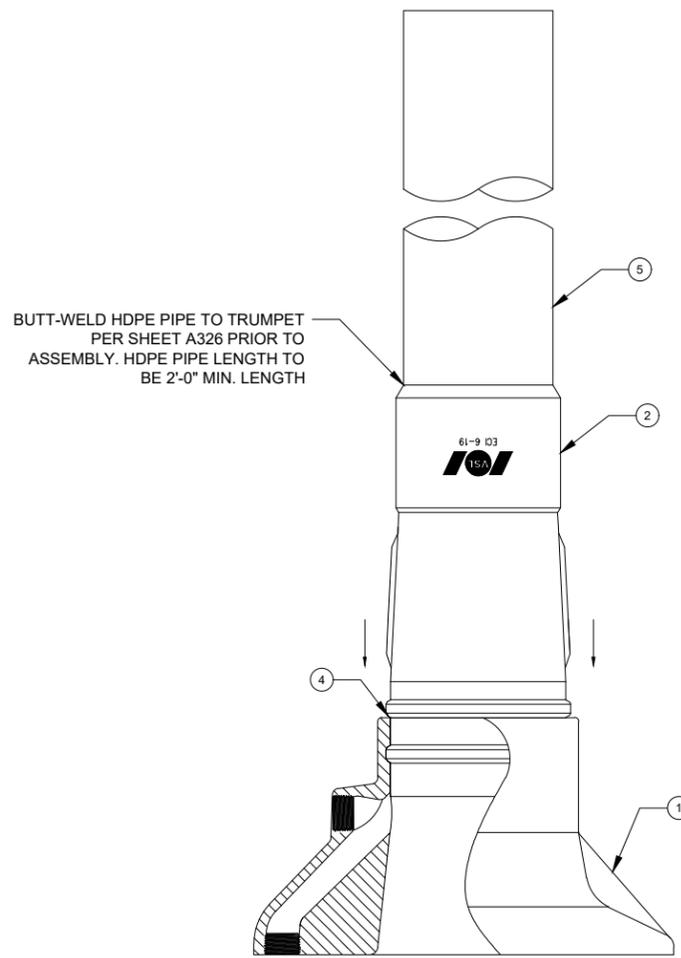
INSTALLATION PROCEDURES (INSTALLATION PROCEDURE IS GENERIC. FOLLOW THE PROJECT SPECIFIC REQUIREMENTS AND THE FDOT SPECIFICATIONS)

- PRE-ASSEMBLE BEARING PLATE WITH TRUMPET/PIPE ASSEMBLY AND HEAT SHRINK PER VSL ANCHORAGE PRE-ASSEMBLY PROCEDURE SHOWN IN SHEET A348. INSTALL INTO FINAL POSITION PER CONSTRUCTION DRAWINGS.
- LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM. SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS. USE CARE NOT TO DAMAGE THREADS.
- INSTALL AND SECURE SPIRAL.
- INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR (BY OTHERS).
- SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
- SYSTEM IS NOW READY TO AIR TEST.
- AFTER CONCRETE PLACEMENT PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER CONCRETE PLACEMENT AND PRIOR TO STRAND INSTALLATION.
- INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
- INSTALL ANCHOR HEADS. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
- ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
- ELONGATION SHOULD BE WITHIN ±7%.
- AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
- AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP. REINSTALL O-RING INTO ANCHORAGE CAP.
- WAX TENDON PER WAX SPEC.

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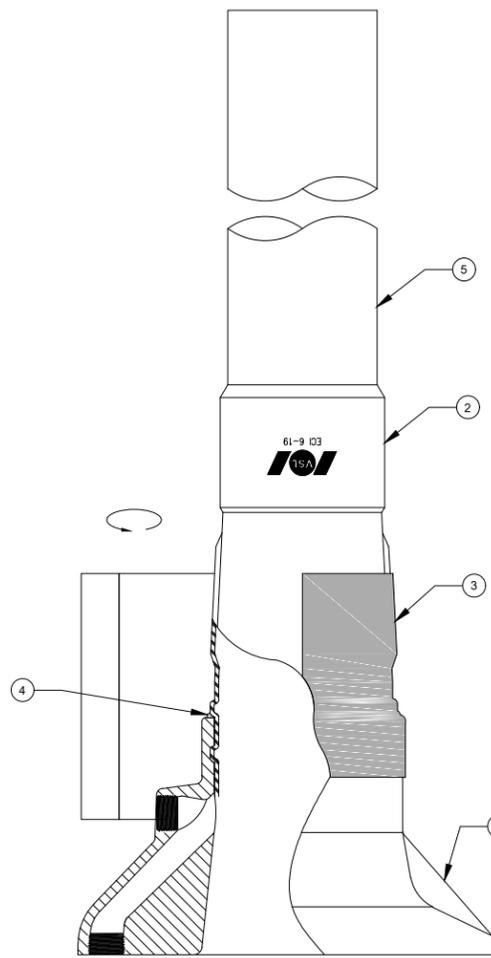
 <b>structural</b> <b>technologies</b> <small>A Structural Group Company</small>	DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76156	DENVER OFFICE 1500 WASHINGTON, DC / DENVER, CO / POMPANO BEACH, FL	PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET	CDL BY ZX	14MAR2018 DATE
PROJECT INFORMATION: SYSTEM DRAWING	TITLE: <b>ECI 6-19 ASSEMBLY WITH FLEXIBLE FILLER</b>				FOR APPROVAL NO
PROJECT NO: ---	SCALE: NTS				DESCRIPTION
SHEET NO: <b>A312</b>					

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



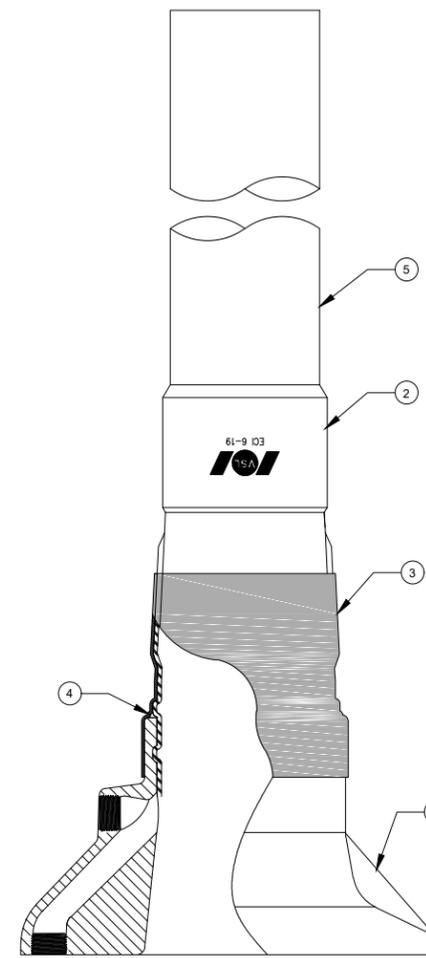
**STEP 1**

- STEP 1**
1. ORIENT BEARING PLATE IN VERTICAL POSITION.
  2. INSERT TRUMPET INTO BEARING PLATE, ROTATING UNTIL LOCKED IN PLACE.
  3. APPLY BONDUIT AROUND OUTSIDE OF TRUMPET AS SHOWN (1/4" MIN. BEAD).
  4. WAIT MIN. 1 HOUR FOR BONDUIT TO SET.



**STEP 2**

- STEP 2**
1. AFTER BONDUIT HAS SET FOR 1 HOUR, WRAP HEAT SHRINK SLEEVE AROUND BEARING PLATE AND TRUMPET AS SHOWN.



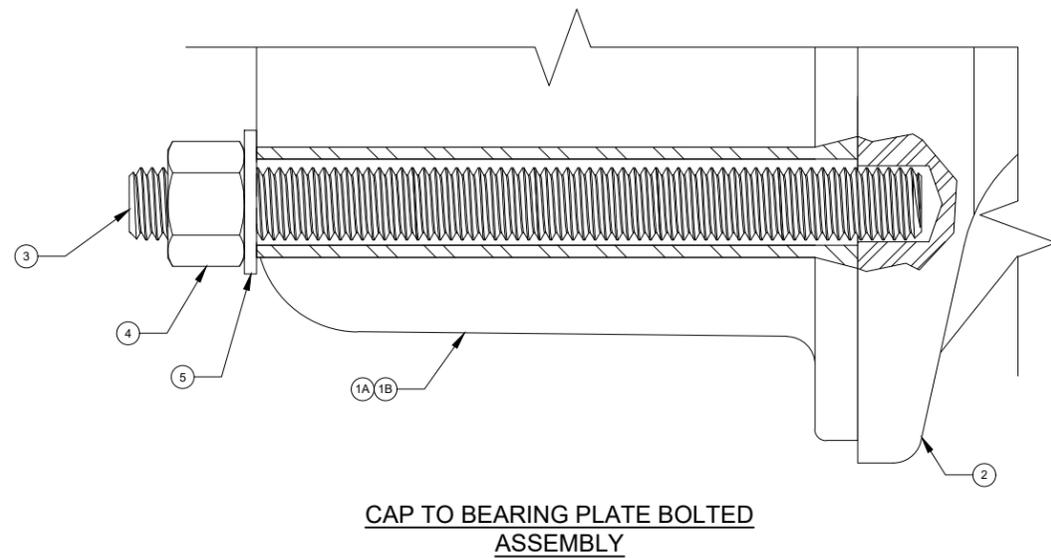
**STEP 3**

- STEP 3**
1. FOLLOW HEAT SHRINK INSTALLATION INSTRUCTIONS (PROVIDED AS A SEPARATE APPENDIX).

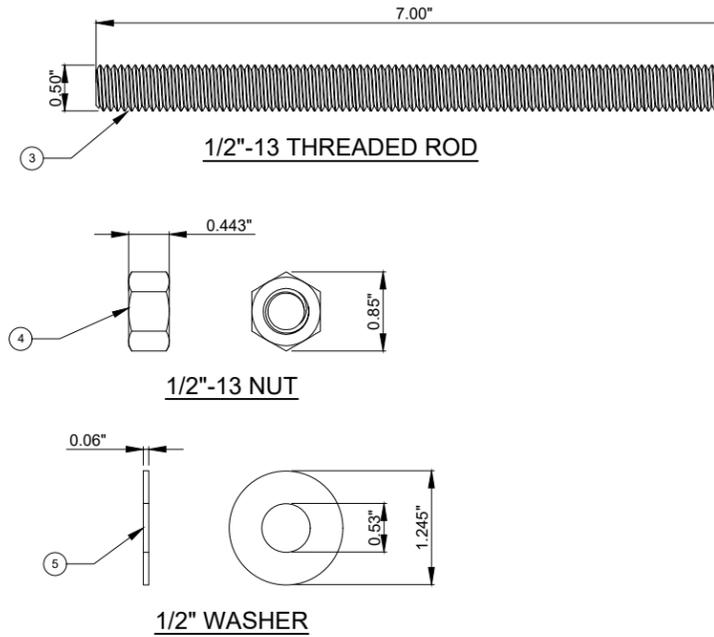
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	ECI 6-19 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP0038V
2	1	ECI 6-19 TRUMPET	HDPE	02BP4322
3	1	CANUSA KLNN-115 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0514
4	-	BONDUIT	-	-
5	1	4" DR-17 PIPE	HDPE	-

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<p>STRUCTURAL TECHNOLOGIES, LLC</p> <p><b>structural TECHNOLOGIES</b></p> <p>A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p><b>ECI 6-19 HEAT SHRINK SLEEVE ASSEMBLY</b></p>		
<p>PROJECT NO:</p> <p>SYSTEM</p>		<p>SCALE:</p> <p>NTS</p>		
<p>SHEET NO:</p>		<p><b>A348</b></p>		



**CAP TO BEARING PLATE BOLTED ASSEMBLY**



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1A	1	6-19 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC61902
1B	1	6-19 ANCHORAGE CAP W/ 1/4" NPT TOP PORT	ABS	02GC61903
2	1	ECI 6-19 BEARING PLATE, GALV	A536 GR 80-55-06	02BP6038V
3	1 SET	1/2"-13 THREADED ROD X 7"	(316L) STAINLESS	02WX5033D
4	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5033D
5	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5033D

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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-19 BOLT ASSEMBLY

PROJECT NO: --  
SCALE: NTS  
SHEET NO: A344

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A Structural Group Company  
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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

NO

FOR APPROVAL

DESCRIPTION

CDL

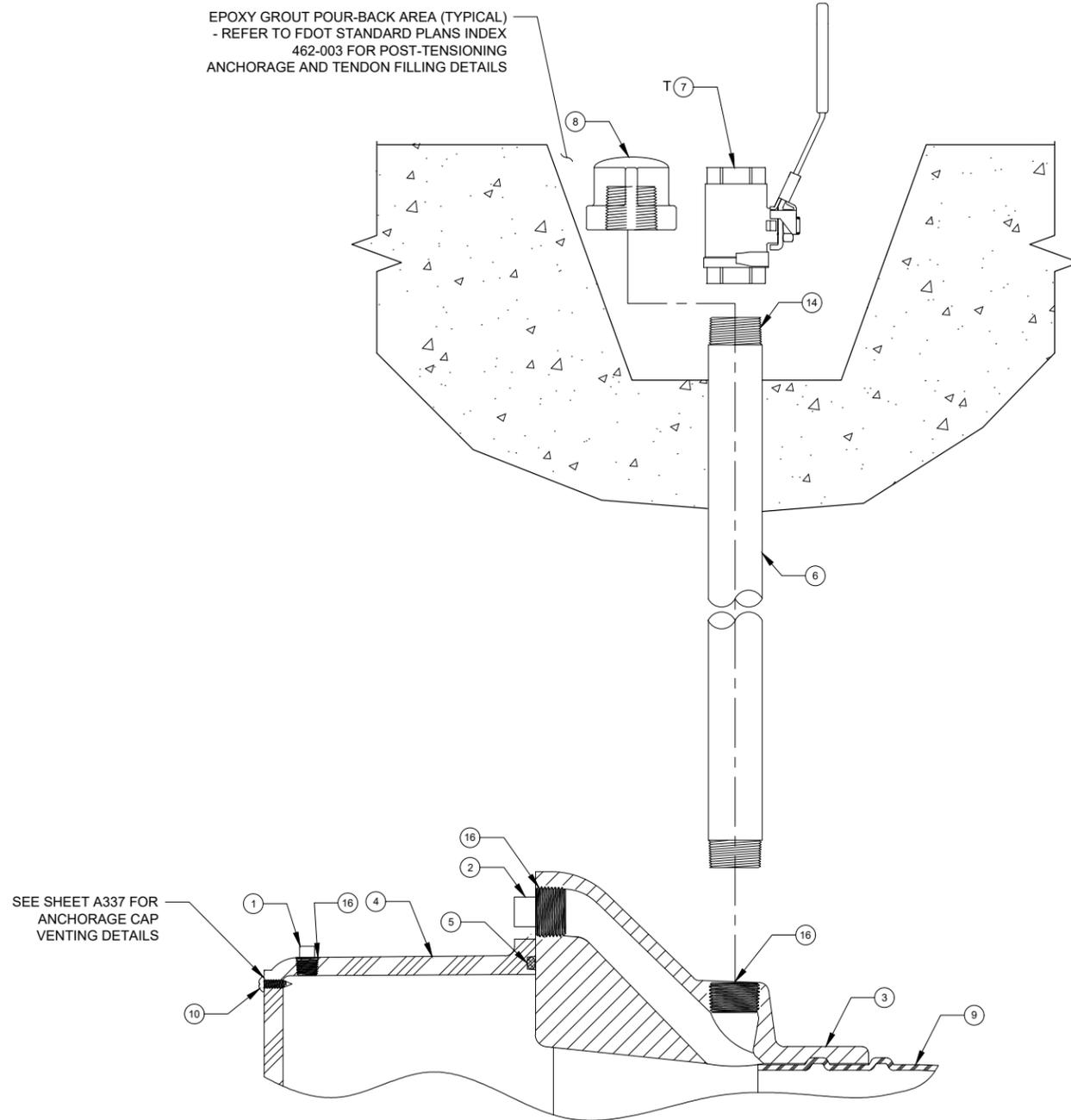
ZX

14MAR2018

DATE

ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal

EPOXY GROUT POUR-BACK AREA (TYPICAL)  
- REFER TO FDOT STANDARD PLANS INDEX  
462-003 FOR POST-TENSIONING  
ANCHORAGE AND TENDON FILLING DETAILS



SEE SHEET A337 FOR  
ANCHORAGE CAP  
VENTING DETAILS

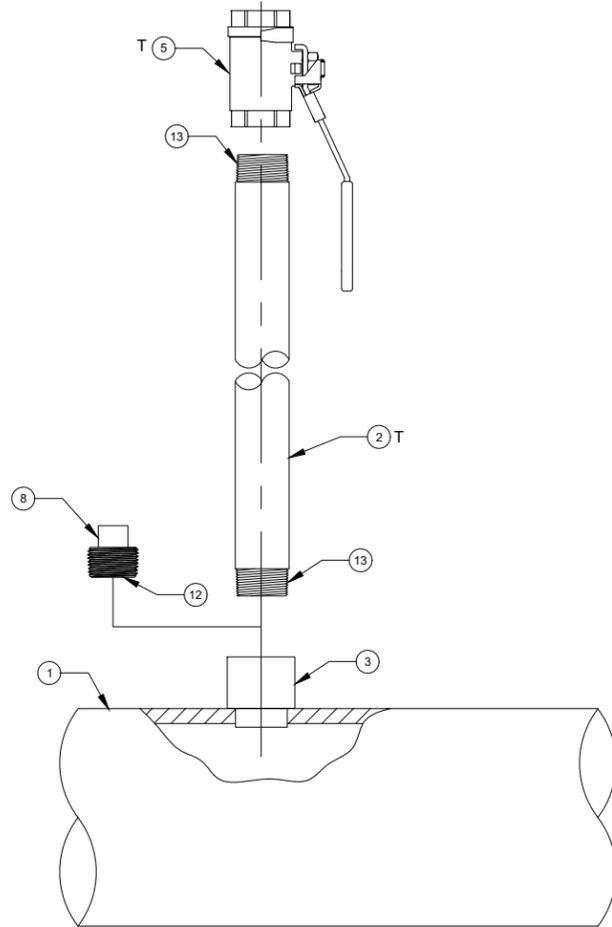
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
2	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	NCS 6-19 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6038V
4	1	6-19 ANCHORAGE CAP W/ 1/4" NPT TOP PORT	ABS	02GC61903
5	1	6-19 ANCHORAGE CAP O-RING	HNBR	02WX6020
6	1	1" NPT NIPPLE	SCH 40 STEEL	-
7	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
8	1	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951
9	1	ECI 6-19 TRUMPET	HDPE	02BP4322
10	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
14	-	SILICONE GREASE	-	-
16	-	BONDUIT	-	-

- NOTES:
- ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
  - ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI
  - CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

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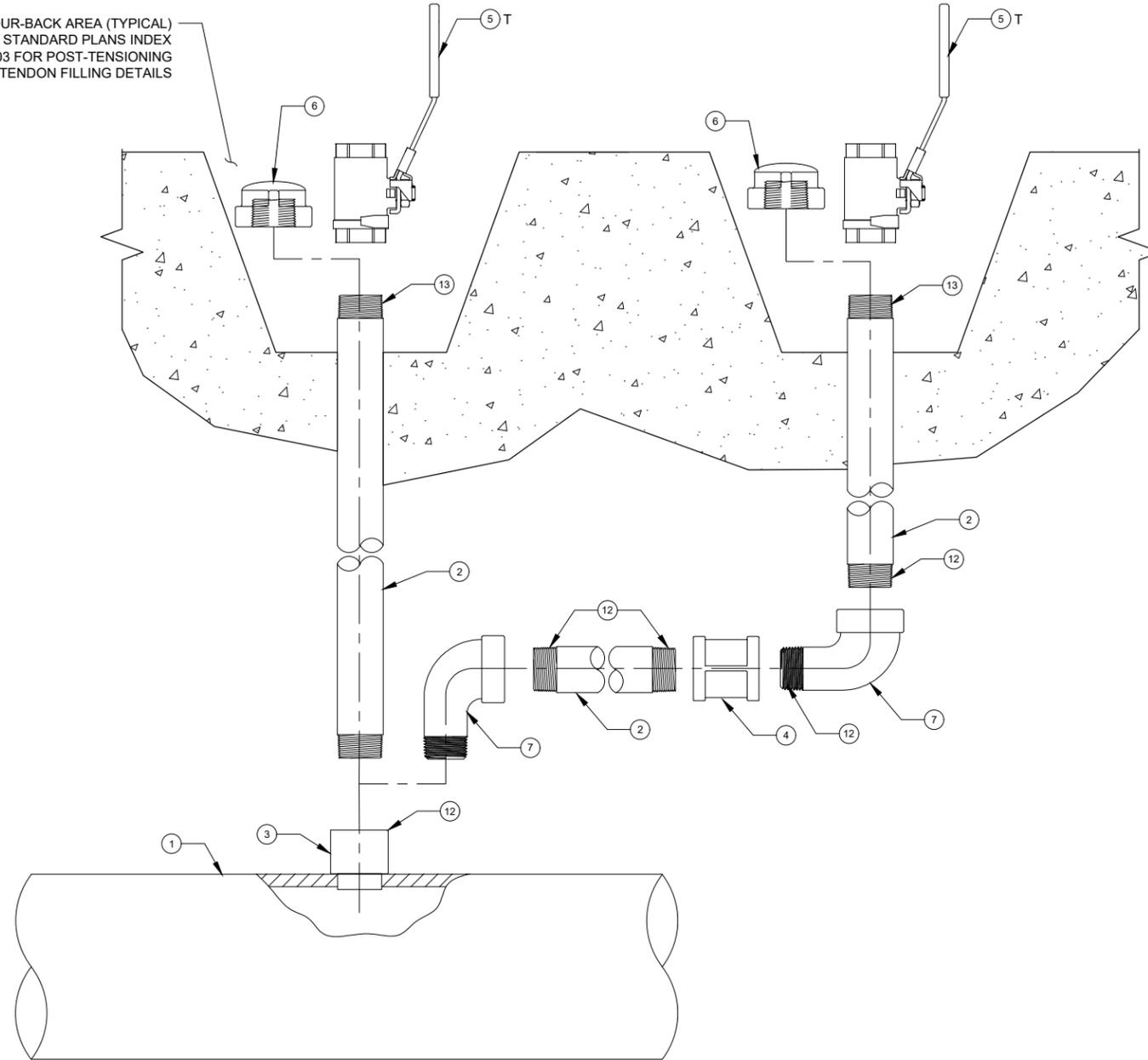
PROJECT INFORMATION:	SYSTEM DRAWING	ECI 6-19 VERTICAL INJECTION OPTIONS		TITLE:	SCALE:
				--	NTS
				PROJECT NO:	SHEET NO:
				--	A342
 structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL			PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET		
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				BY	DATE
				CHK	14MAR2018
				ZCX	CDL
				DESCRIPTION	NO

ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\EC16-19 Flexible Filler Submittal



**EXTERNAL OPTION**

EPOXY GROUT POUR-BACK AREA (TYPICAL)  
- REFER TO FDOT STANDARD PLANS INDEX  
462-003 FOR POST-TENSIONING  
ANCHORAGE AND TENDON FILLING DETAILS



**INTERNAL OPTION**

**3/4" FNPT SMOOTH GROUT PORT INSTALLATION**

1. CLEAN PIPE PRIOR TO GROUT PORT INSTALLATION.
2. DRILL  $\varnothing 7/8"$  HOLE INTO PIPE.
3. CONNECT THE SOCKET WELDING DEVICE TO THE POWER SOURCE.
4. ALLOW THE SOCKET WELDING DEVICE TO REACH ITS WORKING TEMPERATURE.
5. SIMULTANEOUSLY, INSERT MALE ADAPTER OF SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
6. APPLY LIGHT PRESSURE FOR 20-25 SECONDS BY PUSHING THE GROUT PORT WITH THE PALM OF HAND.
7. SIMULTANEOUSLY, REMOVE SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
8. INSERT GROUT PORT INTO HOLE UNTIL THE SHOULDER IS REACHED.
9. THIS OPERATION SHOULD BE CARRIED OUT AS QUICKLY AND CAREFULLY AS POSSIBLE, WITHIN 5 SECONDS. FIRMLY HOLD THE PIECES TOGETHER FOR A MINIMUM OF 10 SECONDS.

**NOTES**

1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
2. THIS ASSEMBLY CAN BE APPLIED IN ANY REQUIRED ORIENTATION TO CREATE EITHER A VENT OR A DRAIN.
3. ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI.
4. CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	-	4" DR-17 PIPE	HDPE	-
2	1	3/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
3	1	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253
4	1	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952
5	1	3/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01925
6	1	3/4" NPT STEEL CAP	SCH 40 STEEL	02DT01950
7	2	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954
8	1	3/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01957
12	-	BONDUIT	-	-
13	-	SILICONE GREASE	-	-

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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

PROJECT INFORMATION:  
SYSTEM DRAWING

PROJECT NO: --  
SCALE: NTS  
SHEET NO: A327

TITLE:  
**4" HDPE PIPE VENT ASSEMBLY**

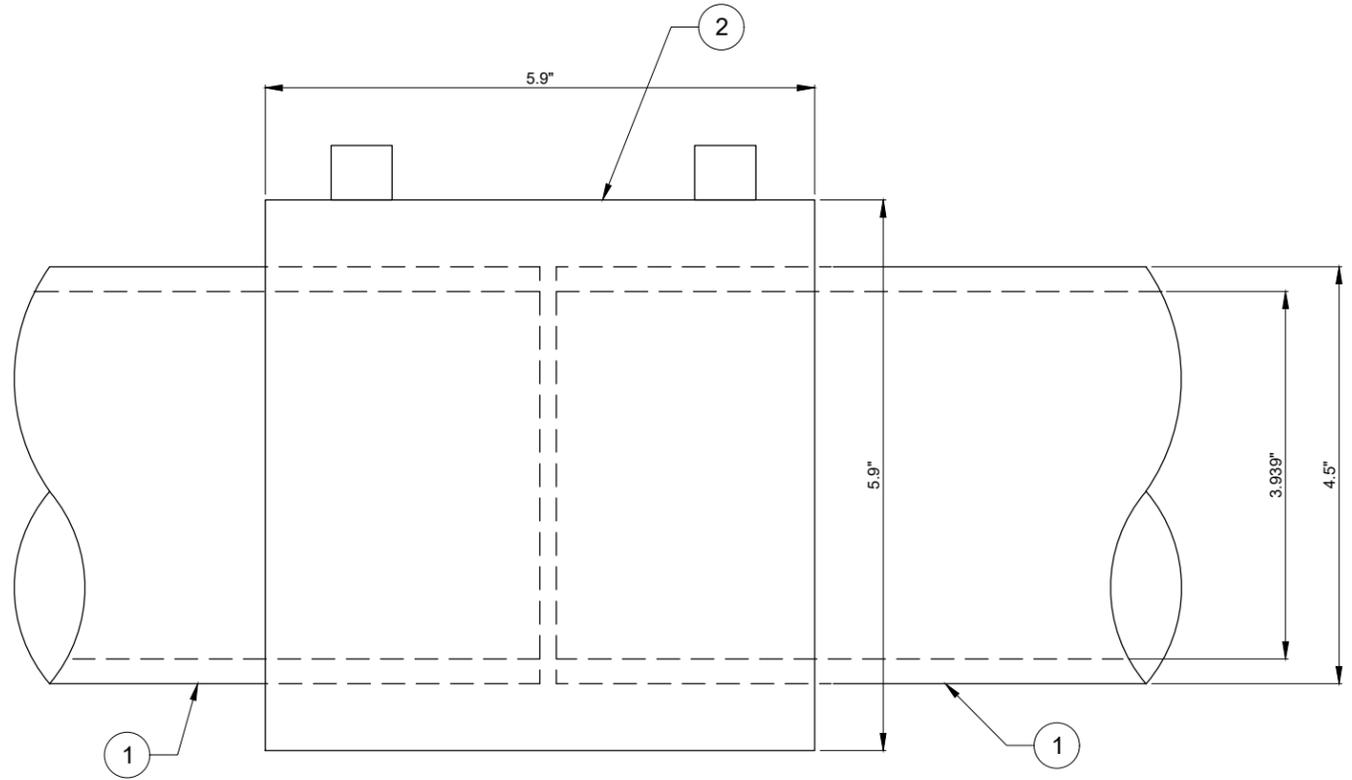
FOR APPROVAL  
NO

DESCRIPTION

BY CDL

CHK ZK

DATE 14MAR2018



INSTALLATION PROCEDURE (SEE MANUFACTURER INSTRUCTION MANUAL FOR DETAILED INSTALLATION INSTRUCTIONS):

1. CUT SQUARE ENDS ON PIPE TO BE FUSED
2. CLEAN BOTH PIPE ENDS
3. SCRAPE BOTH PIPES MINIMUM 0.07" WITH PROVIDED SCRAPING TOOL
4. CLEAN BOTH PIPE ENDS USING 90% OR GREATER ISOPROPYL ALCOHOL
5. USE REROUNDING TOOLS PROVIDED TO CORRECT OVAL PIPE IF NECESSARY
6. USE ALIGNMENT CLAMPS PROVIDED TO ENSURE PIPE IS ALIGNED WITH COUPLER
7. SUPPORT PIPE AND COUPLER AND RESTRAIN PIPE TO PREVENT MOVEMENT
8. CHECK FOR GAPS AND ELIMINATE AS NECESSARY
9. ATTACH LEADS OF THE PROVIDED FUSION PROCESSOR TO THE COUPLER
10. SCAN THE BARCODE ON THE COUPLER
11. START FUSION PROCESS
12. WHEN FUSION PROCESS IS COMPLETE, UNPLUG THE LEADS
13. DO NOT MOVE OR PRESSURIZE THE JOINT COMPONENTS BEFORE COOLING TIME HAS COMPLETED

ITEM	QTY	DESCRIPTION	MATERIAL
1	-	4" HDPE PIPE DR-17	ASTM D3035
2	1	4" ELECTROFUSION COUPLER	COMPOSITE

NOTE:  
FOLLOW COUPLER MANUFACTURER'S  
INSTALLATION INSTRUCTIONS

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<b>PROJECT INFORMATION:</b>				
<b>SYSTEM DRAWING</b>				
<b>4" HDPE PIPE TO 4" HDPE PIPE ELECTROFUSION COUPLER CONNECTION</b>				
PROJECT NO: <b>SYSTEM</b>	SCALE: <b>NTS</b>	FOR APPROVAL <b>NO</b>	DESCRIPTION <b>NO</b>	DATE <b>14MAR2018</b>
SHEET NO: <b>A338</b>		BY <b>CDL</b>	CHK <b>ZX</b>	DATE <b>14MAR2018</b>

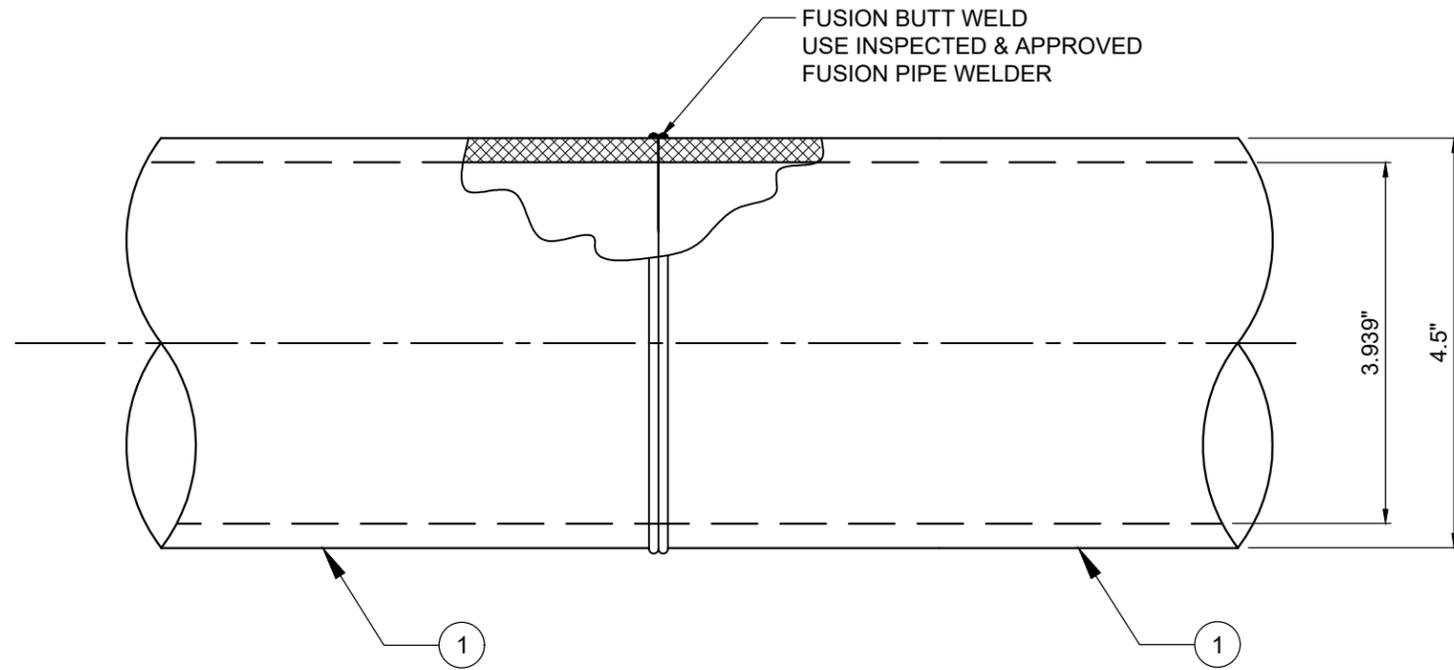
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WWW.VSL.NET



**ELEVATION VIEW**

ITEM	QTY	DESCRIPTION	MATERIAL
1	2	4" HDPE PIPE DR-17	ASTM D3035

- NOTES:  
 1. HDPE 4" IPS/DR-17 MEETS FDOT 960 SPEC.  
 2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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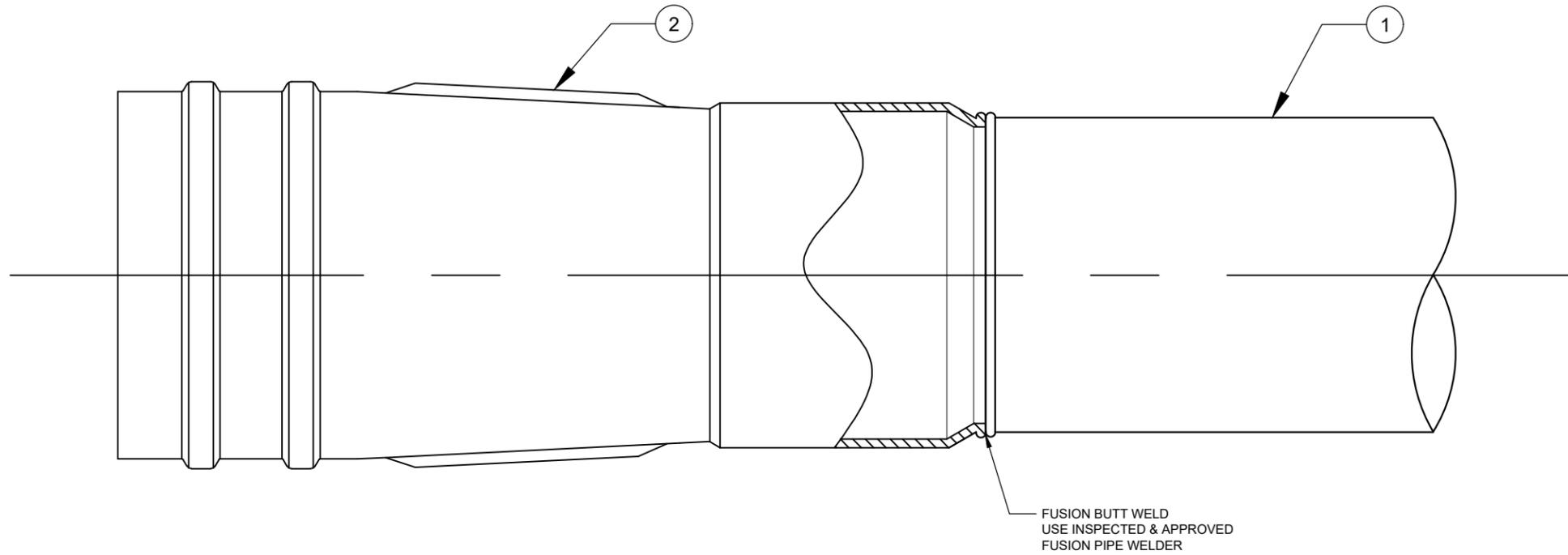
PROJECT INFORMATION:		TITLE BLOCK UPDATED		CDL	ZX	14MAR2018
SYSTEM DRAWING		APPROVED FOR CONSTRUCTION		GDH	ZX	08MAY2006
PROJECT NO: SYSTEM		APPROVED FOR CONSTRUCTION		GDH	NDS	11MAY2004
SHEET NO: A167		DESCRIPTION		BY	CHK	DATE

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 FORT WORTH, TX 76156



**TRUMPET TO HDPE PIPE ASSEMBLY**

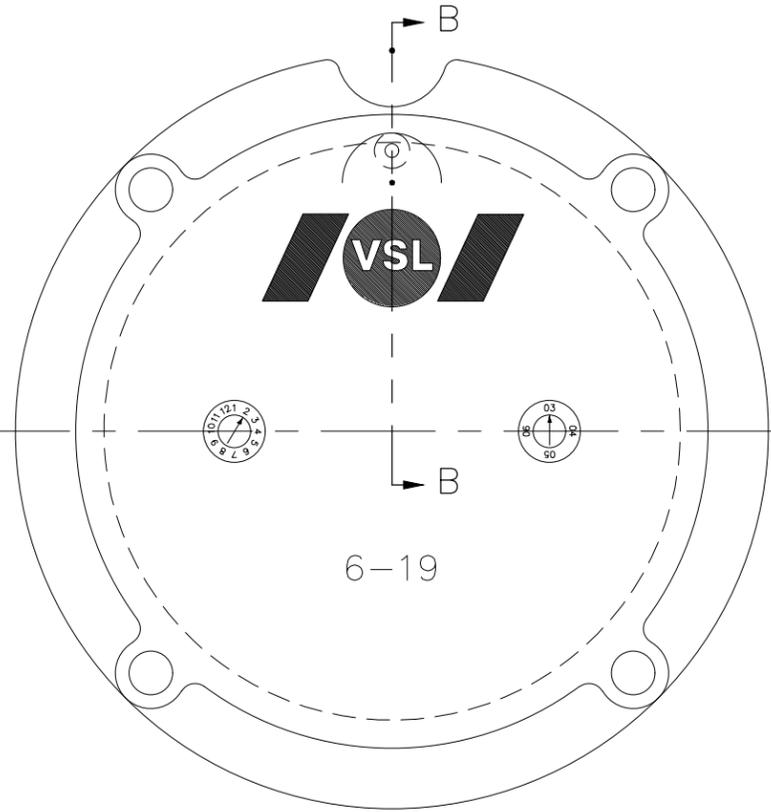
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY
1	1	4" HDPE PIPE DR-17	ASTM D3035	-
2	1	ECI 6-19 TRUMPET	HDPE	02BP4322

- NOTES:  
 1. HDPE 4" IPS/DR-17 MEETS FDOT 960 SPEC.  
 2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

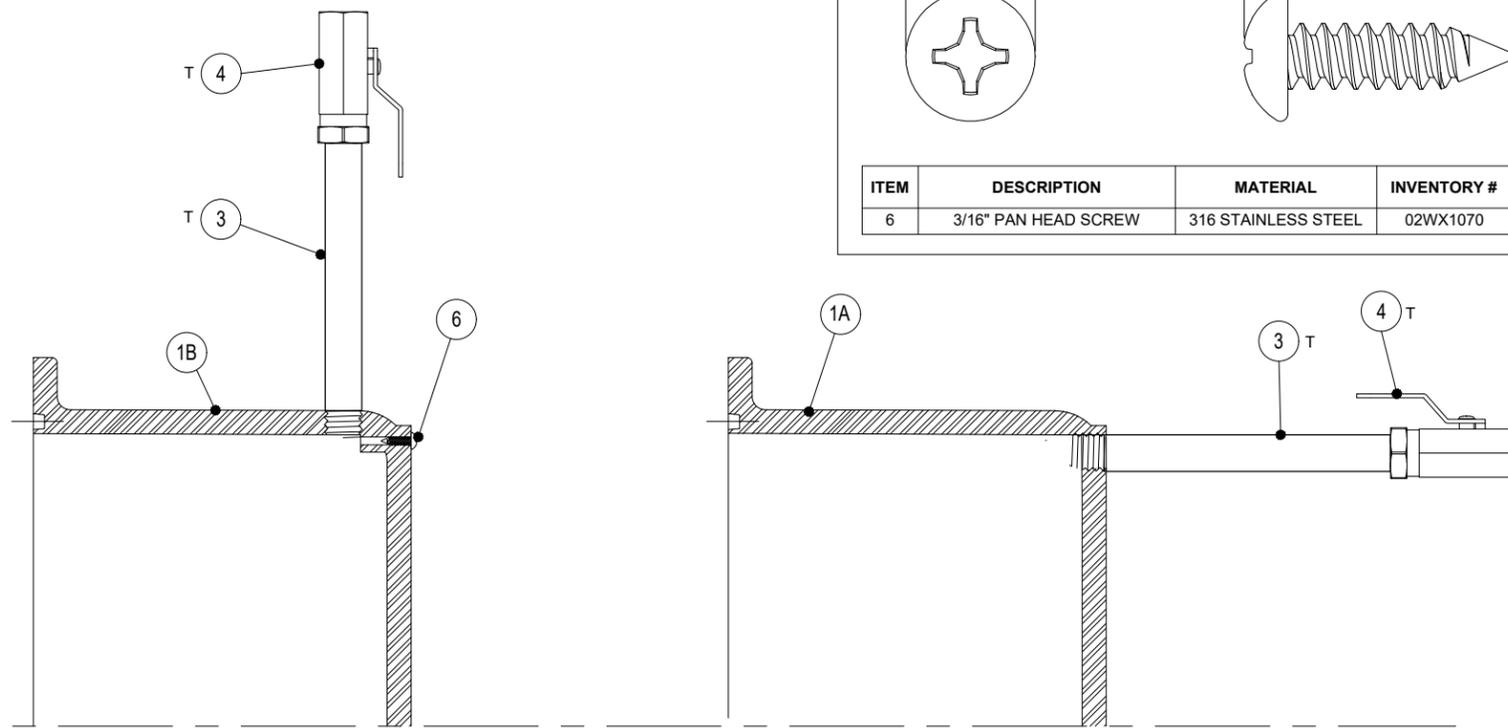
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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR REPRODUCTION OF THE INFORMATION, IS RESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	SYSTEM	APPROVED FOR CONSTRUCTION	NO
SHEET NO:	NTS	CDL ZX	14MAR2018
TITLE:		BY	DATE
SYSTEM DRAWING		CHK	
TYPICAL ECI 6-19 TRUMPET TO HDPE PIPE BUTT FUSION CONNECTION			
STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76156			
VSL A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL			
PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET			
<b>A326</b>			

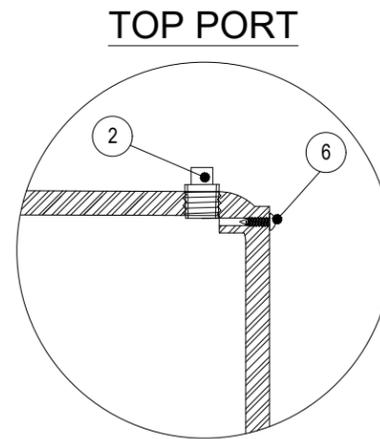
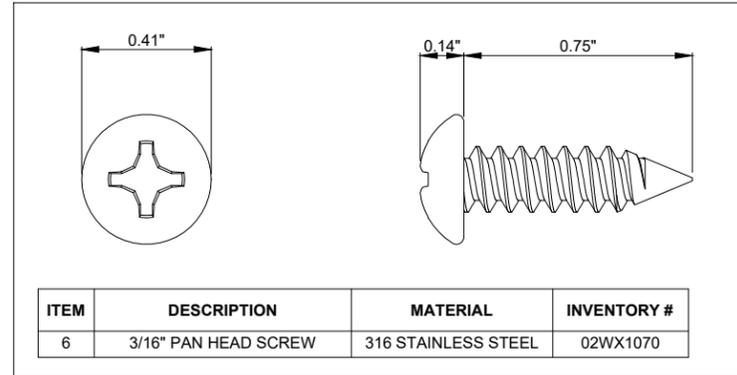
ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



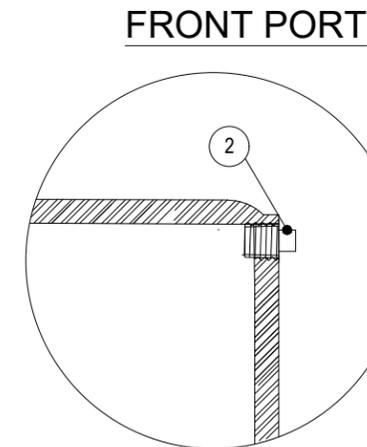
6-19 GROUT CAP



SECTION B-B



AFTER WAX



AFTER WAX

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY
6	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
4	2	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
3	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
2	1	1/4"Ø NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
1B	1	6-19 GROUT CAP W/ 1/4" NPT TOP PORT	ABS	02GC61903
1A	1	6-19 GROUT CAP W/ 1/4" NPT FRONT PORT	ABS	02GC61902

NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.

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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15000 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

PROJECT INFORMATION:  
SYSTEM DRAWING

PROJECT NO: --  
SCALE: NTS  
SHEET NO: A337

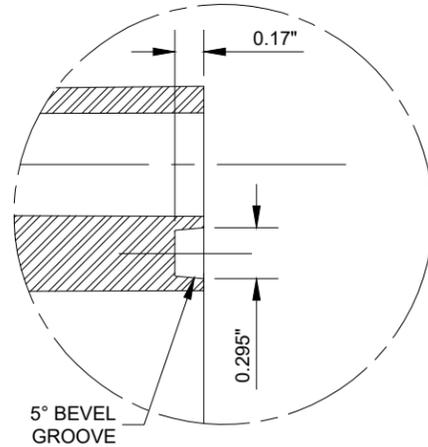
TITLE:  
ECI 6-19 ANCHORAGE CAP VENT DETAIL

CDL	ZX	DTS	DD	DTS	DD	CHK	DATE

NO	DESCRIPTION
2	TITLE BLOCK UPDATED
1	VENT DETAILS
0	3/4" GROUT PORTS



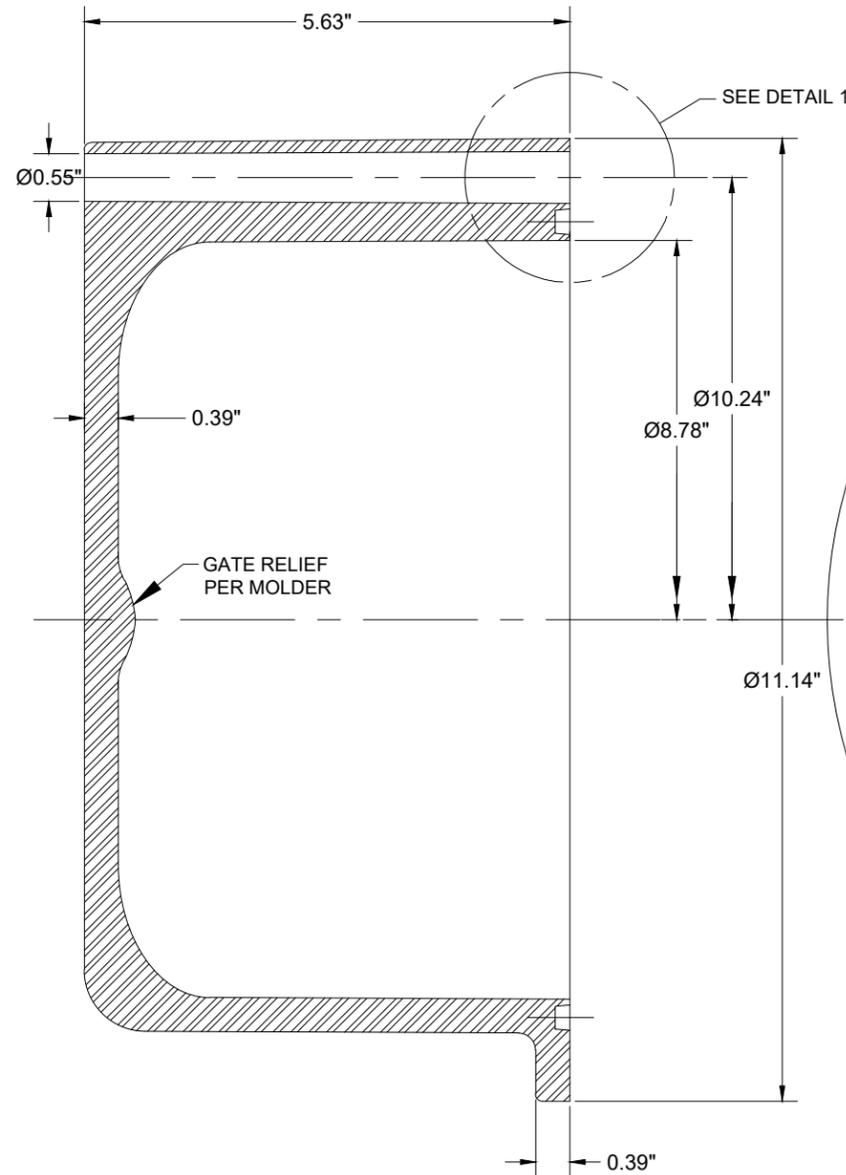
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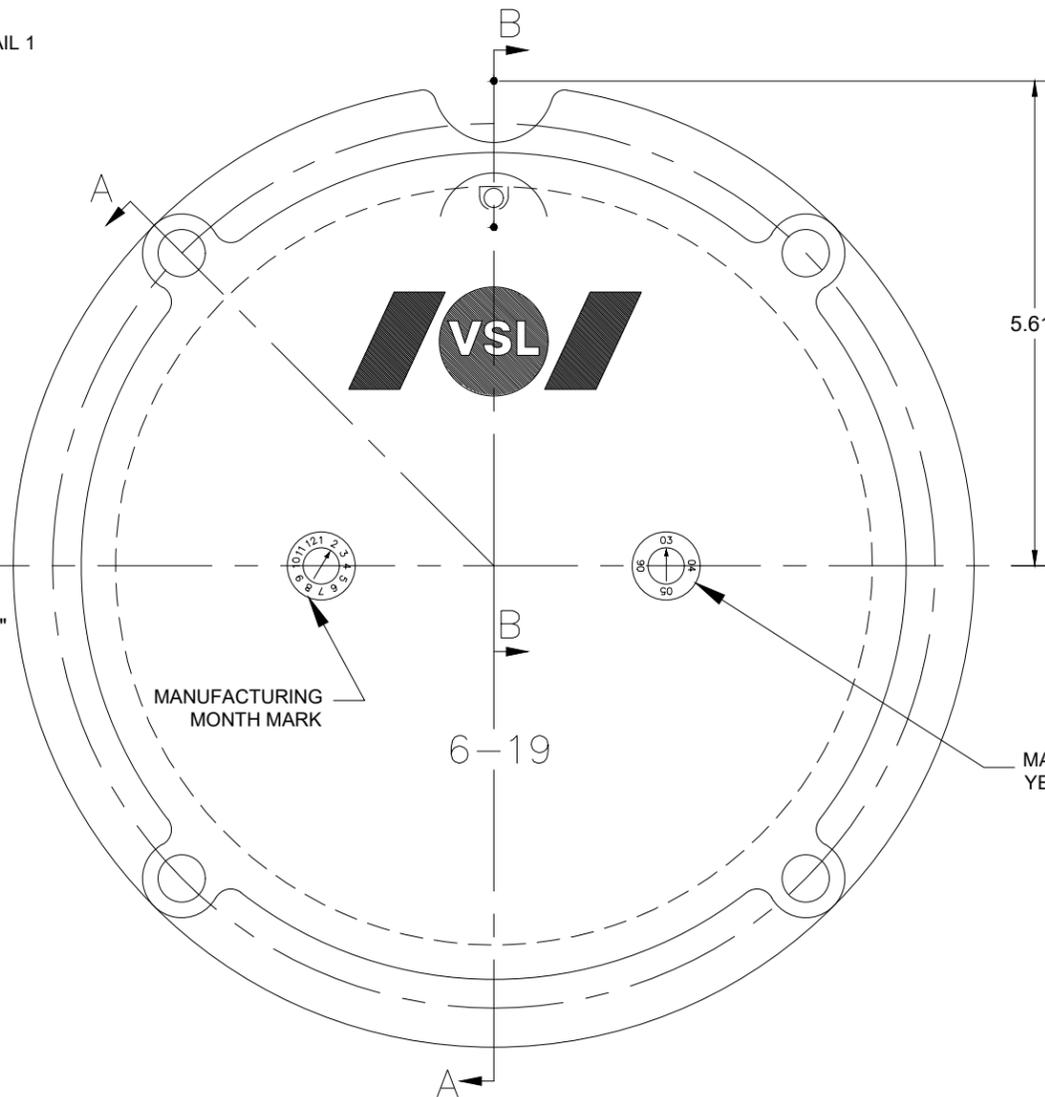
**DETAIL 1**

**TOLERANCES**  
 UNLESS OTHERWISE SPECIFIED  
 FRACTIONAL \_\_\_\_\_ ± 1/32  
 DECIMAL \_\_\_\_\_.X \_\_\_\_ ± .030  
 \_\_\_\_\_.XX \_\_\_\_ ± .010  
 \_\_\_\_\_.XXX \_\_\_\_ ± .005  
 ANGULAR \_\_\_\_\_ ± 1/2°

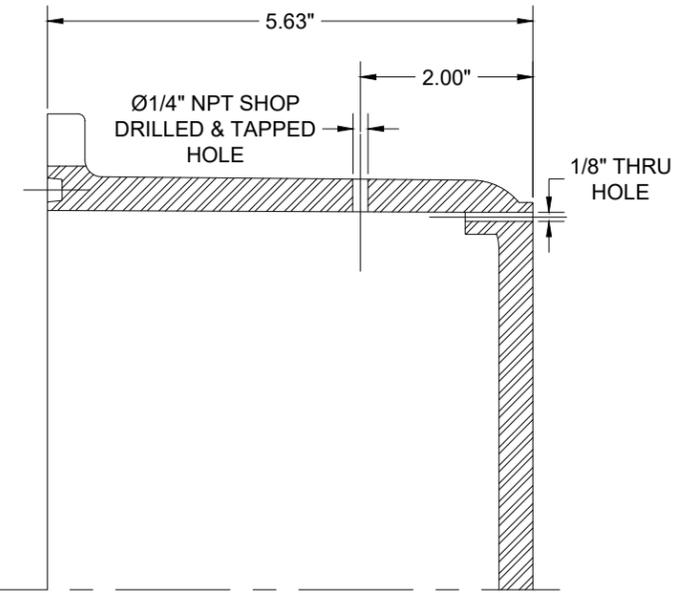
**NOTES:**  
 1) DIMENSIONS ARE IN INCHES  
 2) MATERIAL: ABS LUSTRAN 633  
 3) INVENTORY #: 02GC61903



**SECTION A-A**



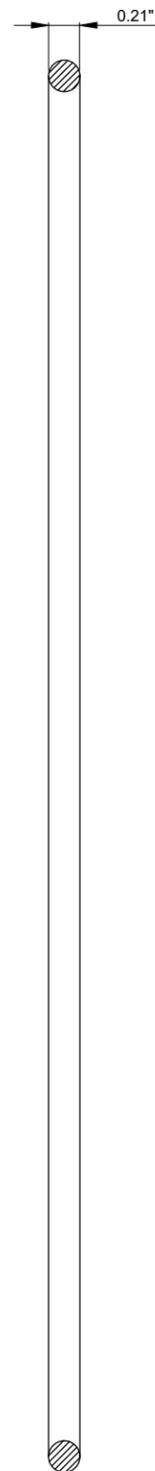
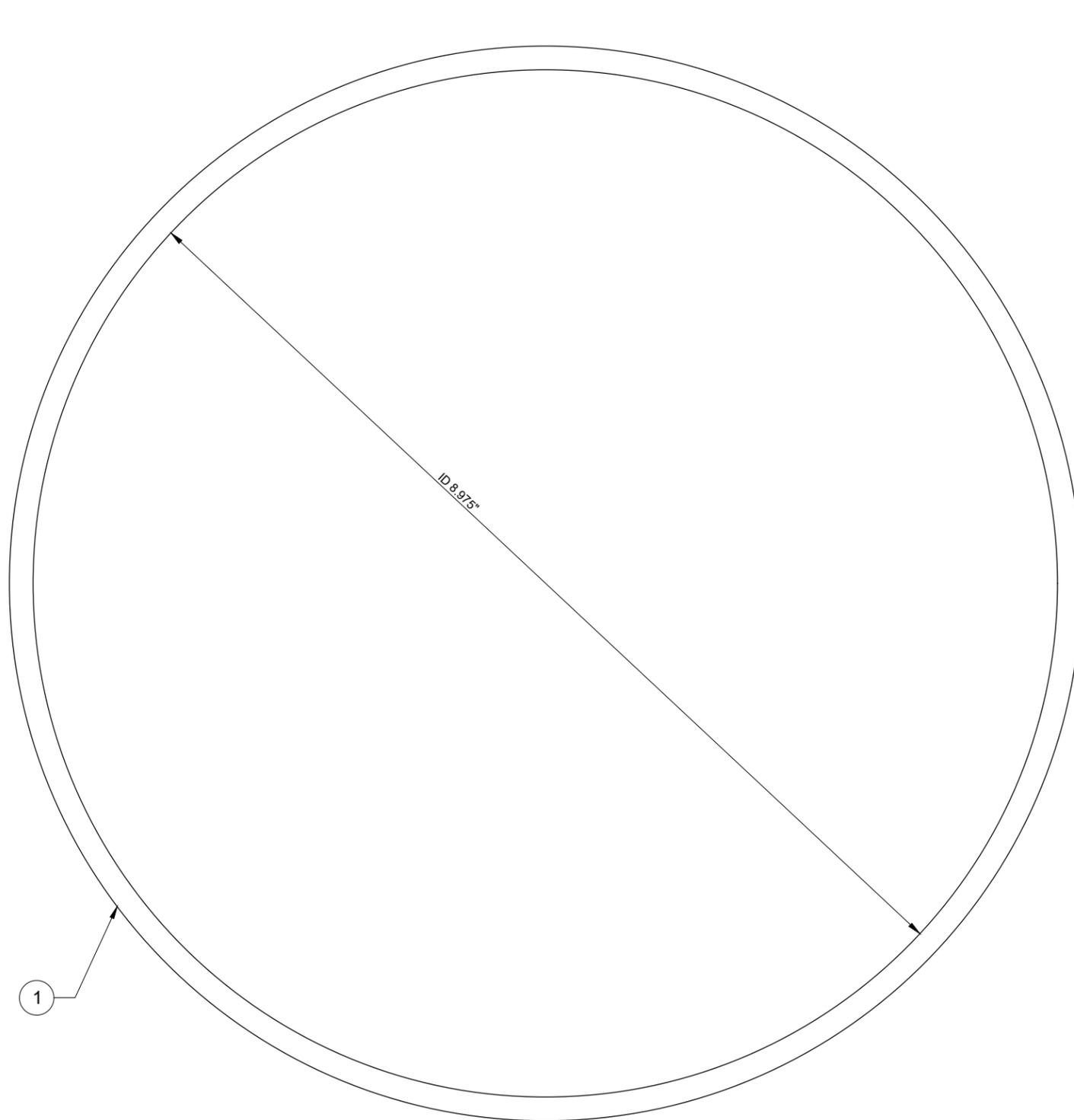
**6-19 ANCHORAGE CAP**  
 LETTERING SHALL BE 0.06" PROUD



**SECTION B-B**

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PROJECT INFORMATION:		ISSUED FOR PRODUCTION		CDL	ZX	14MAR2018	
SYSTEM DRAWING		DESCRIPTION		BY	CHK	DATE	
PROJECT NO: --		NO					
SHEET NO: C740							
TITLE: EC16-19 ANCHORAGE CAP W/ 1/4" TOP PORT							
SCALE: NTS							
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THE MATERIAL WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.					
PROJECT INFORMATION:		 <b>structural TECHNOLOGIES</b> A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET			
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76155					



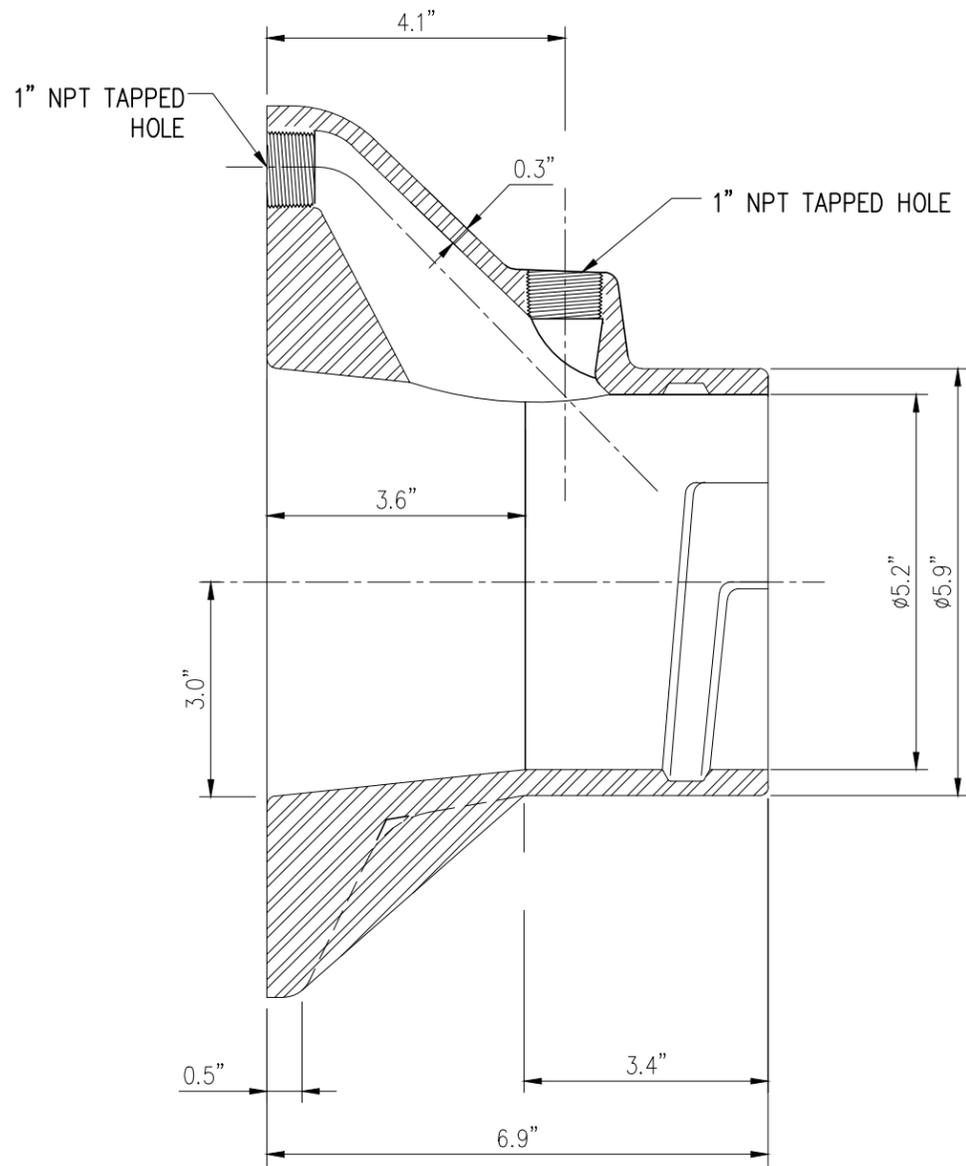
ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY
1	-	6-19 ANCHORAGE CAP O-RING	HNBR	8.975"x9.395"x0.21"	02WX6020

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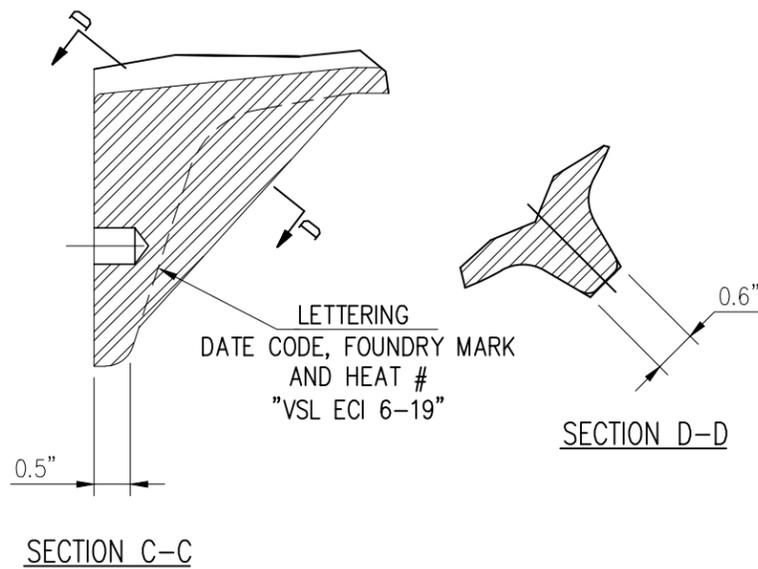
 <p><b>structural TECHNOLOGIES</b> A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p>		<p>STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15000 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156</p> <p>PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>	
<p>PROJECT INFORMATION:</p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: C717</p>		<p>TITLE: 6-19 ANCHORAGE CAP O-RING</p> <p>SCALE: NTS</p>	
<p>FOR APPROVAL</p>		<p>NO</p>	<p>CDL ZX</p>
<p>DESCRIPTION</p>		<p>BY</p>	<p>CHK</p>
<p>DATE</p>		<p>14MAR2018</p>	<p>DATE</p>

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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



SECTION B-B

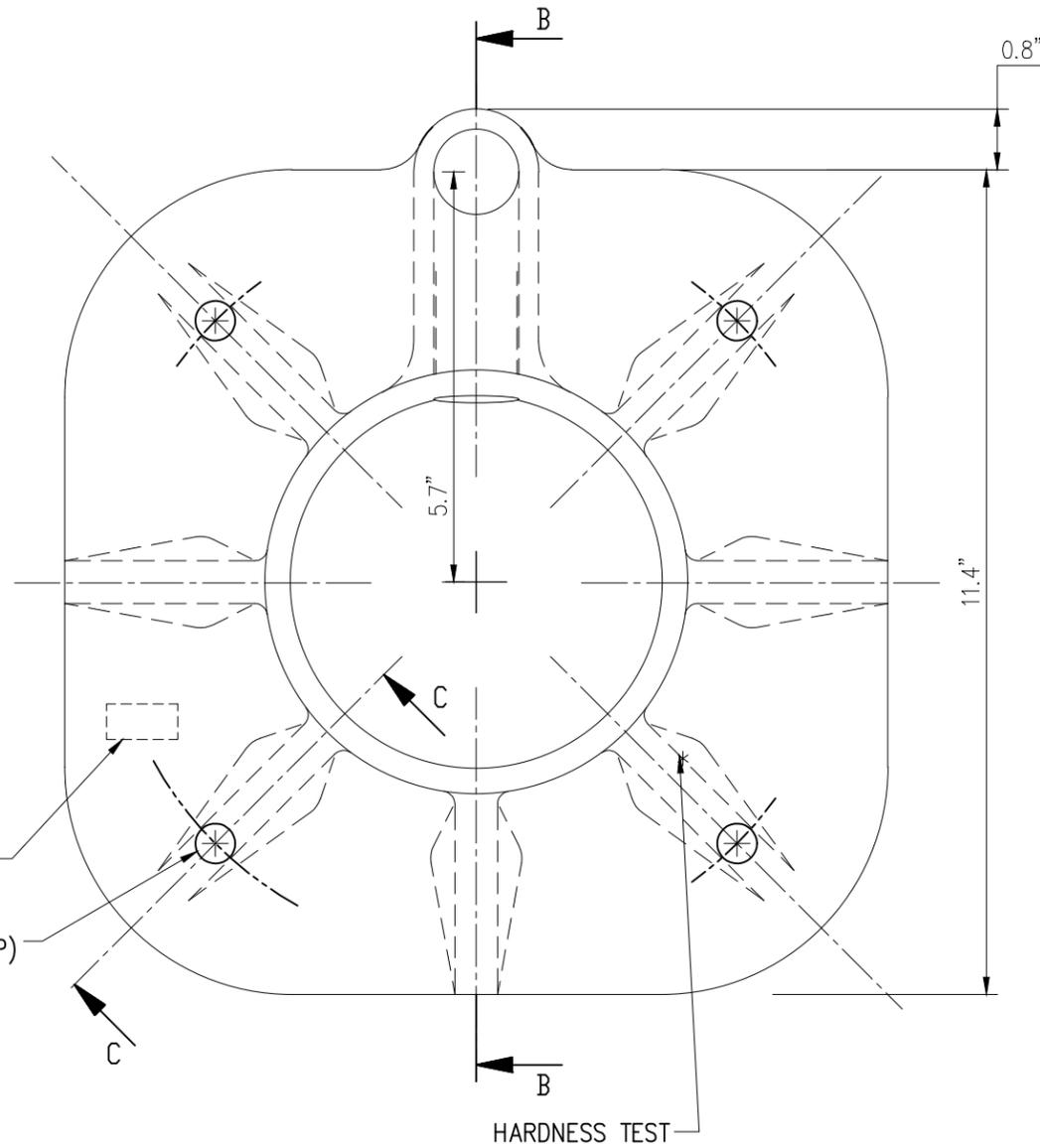


LETTERING  
DATE CODE, FOUNDRY MARK  
AND HEAT #  
"VSL ECI 6-19"

SECTION C-C

LETTERING REVERSE SIDE  
SEE SECTION C-C

(27/64" DRILL x 3/4" DEEP)  
(1/2"-13 x 1/2" DEEP)  
4 PLC. TYP.



**GENERAL NOTES**

- 1) ALL HOLES TO BE FREE FROM BURRS
- 2) MATERIAL: ASTM A536 GR 80-55-06 GALVANIZED

INVENTORY No. 02BP0038V

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 15600 TRINITY BLVD., SUITE 118  
 FORT WORTH, TX 76156  
 PHONE: (817) 545-4807  
 FAX: (817) 545-4827  
 WWW.VSL.NET

PROJECT INFORMATION:  
**SYSTEM DRAWING**

PROJECT NO:  
**SYSTEM**

SHEET NO:

TITLE:  
**ECI 6-19 BEARING PLATE W/ 1" NPT PORT  
 (GALVANIZED)**

SCALE:  
**NTS**

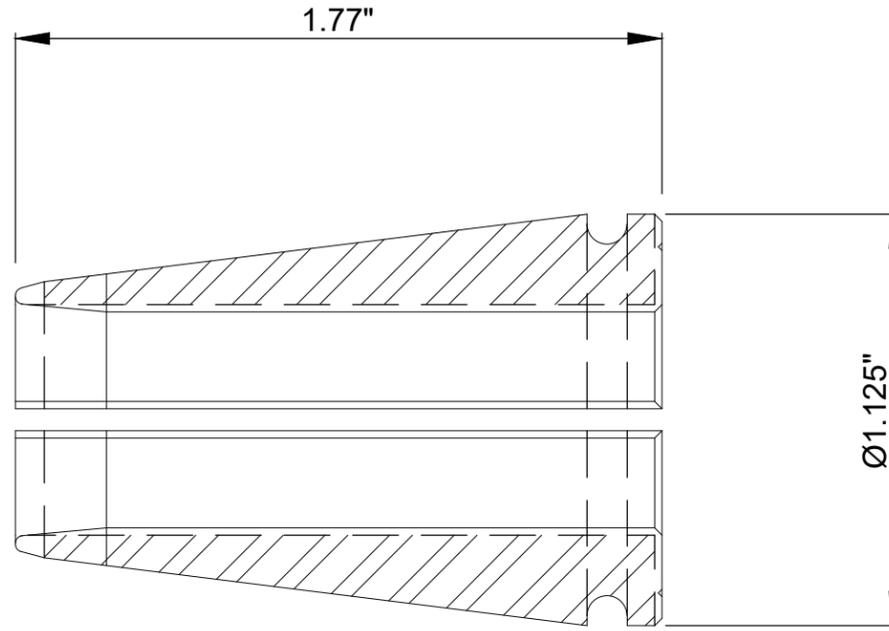
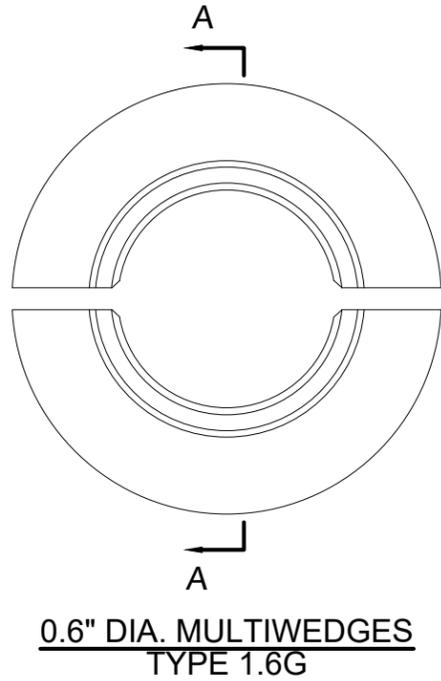
**C738**

ISSUED FOR PRODUCTION  
 NO  
 DESCRIPTION

CDL ZK  
 BY CHK  
 14MAR2018  
 DATE







- NOTES:**
1. MATERIAL: AISI 11L17/12L14, PRODUCED IN STRICT ACCORDANCE WITH VSL MS 3.1.006
  2. WEIGHT: 0.197 LBS. (APPROX.)
  3. HEAT TREATMENT: CASEHARDENED
  4. INVENTORY NO. 02WG0008

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<p>PROJECT INFORMATION:</p> <p><b>SYSTEM DRAWING</b></p> <p>PROJECT NO: <b>SYSTEM</b></p> <p>SHEET NO: <b>C218</b></p>	<p>5</p>	<p>TITLE BLOCK UPDATED</p>	<p>CDL</p>	<p>ZX</p>	<p>26FEB2018</p>
	<p>4</p>	<p>UPDATED TITLE BLOCK</p>	<p>SK</p>	<p>ZX</p>	<p>09JAN2015</p>
	<p>3</p>	<p>UPDATED BORDER</p>	<p>GDH</p>		<p>29APR2004</p>
	<p>2</p>	<p>ADDED INVENTORY NUMBER</p>	<p>TKW</p>		<p>01JAN1989</p>
	<p>NO</p>	<p>DESCRIPTION</p>	<p>BY</p>	<p>CHK</p>	<p>DATE</p>

**structural TECHNOLOGIES**  
A Technical Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

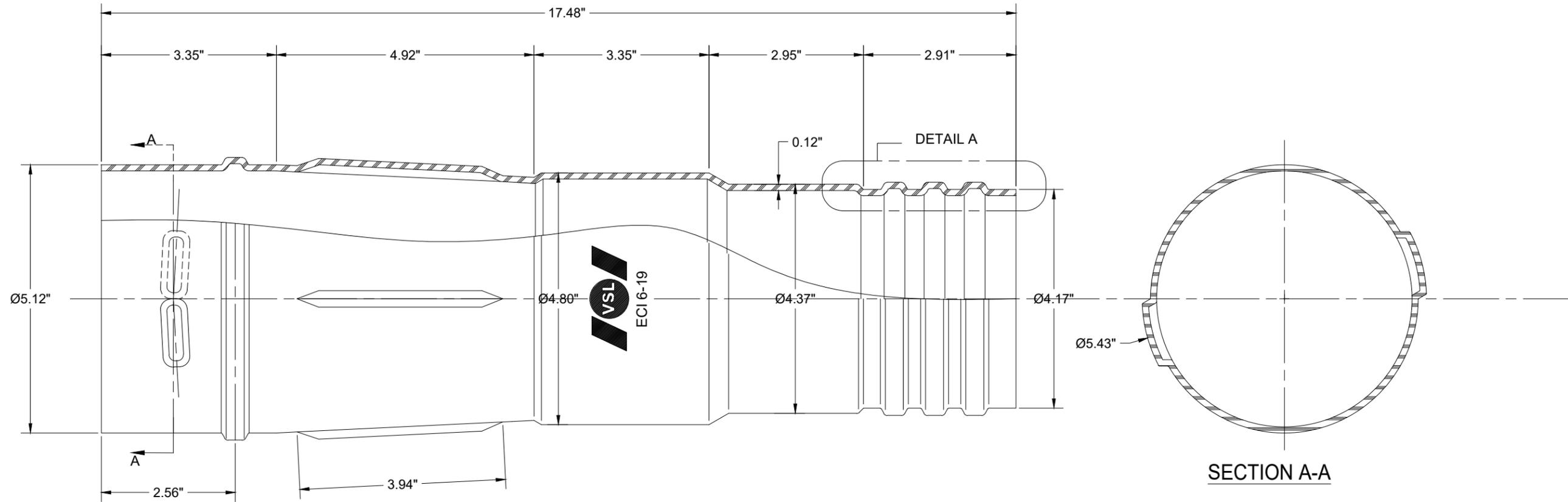
STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

VSL

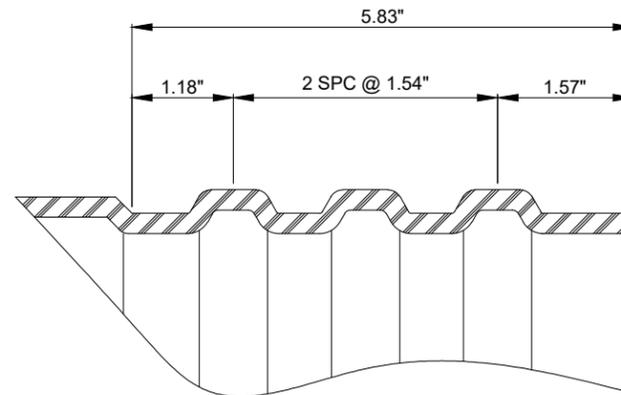
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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



ECI 6-19 TRUMPET



DETAIL A

TOLERANCES  
UNLESS OTHERWISE SPECIFIED

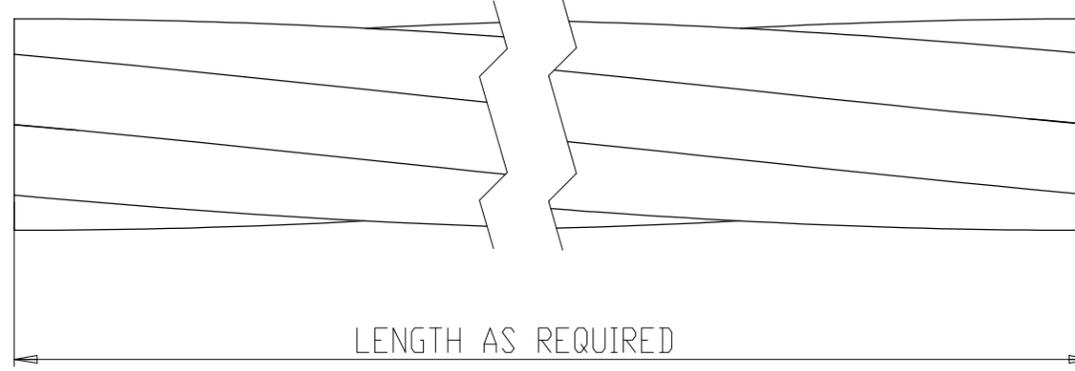
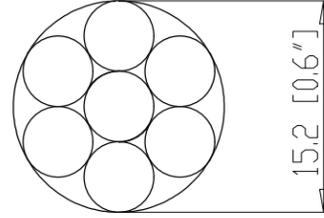
FRACTIONAL \_\_\_\_\_ ± 1/32  
DECIMAL \_\_\_\_\_.X \_\_\_\_ ± .030  
                  \_\_\_\_.XX \_\_\_\_ ± .010  
                  \_\_\_\_.XXX \_\_\_\_ ± .005

ANGULAR \_\_\_\_\_ ± 1/2°

NOTES:  
1) DIMENSIONS ARE IN INCHES  
2) MATERIAL: HDPE  
3) INVENTORY #: 02BP4322

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PROJECT INFORMATION:  SYSTEM DRAWING	TITLE BLOCK UPDATED	CDL	ZX	14MAR2018
	UPDATED INFORMATION	GDH	ZX	06DEC2012
	APPROVED FOR PRODUCTION	LS	JC	01APR2004
	DESCRIPTION	BY	CHK	DATE
NO	1	2	3	NO
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 <b>structural TECHNOLOGIES</b> A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET				
STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76155				
PROJECT NO:	TITLE:			
SHEET NO:	SCALE:			
-	NTS			
A337				



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PROJECT INFORMATION:

SYSTEM DRAWING

VSL POST TENSIONING 0.6" BARE STRAND  
ASTM A416, 270KSI

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C674



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NO

NO

TITLE BLOCK UPDATED

FOR FDOT

CDL ZX

MM

BY

CHK

DATE

26FEB2018

DESCRIPTION

NO



ITEM	QTY	DESCRIPTION	MATERIAL
1	-	4" HDPE PIPE DR-17	ASTM D3035

NOTE: MINIMUM BEND RADIUS = 20'-0"

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:  
C732

TITLE:  
4" HDPE PIPE

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

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DALLAS OFFICE  
15000 TRINITY BLVD, SUITE 118  
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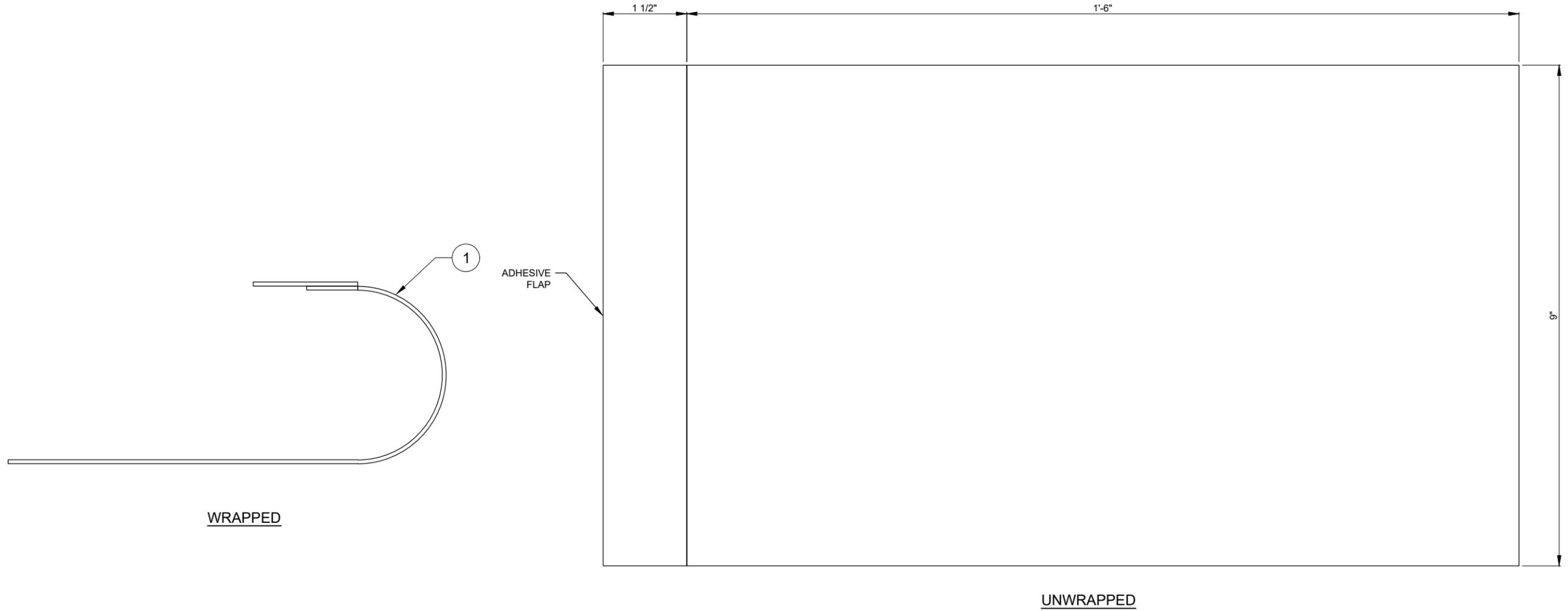
NO

FOR APPROVAL

CDL ZX

BY CHK

DATE  
14MAR2018



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	CANUSA KLNN-115 WS BK/L 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0514

NOTE: REFERENCE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE APPENDIX.

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FORT WORTH, TX 76155

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
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**PROJECT INFORMATION:**

PROJECT NO: -

SHEET NO: -

SCALE: NTS

TITLE: KLNN-115 9" HEAT SHRINK SLEEVE

DESCRIPTION: NO

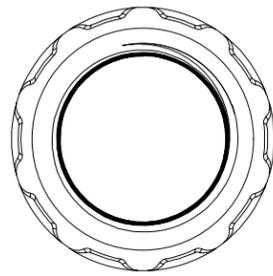
FIRST ISSUE

CDL ZK

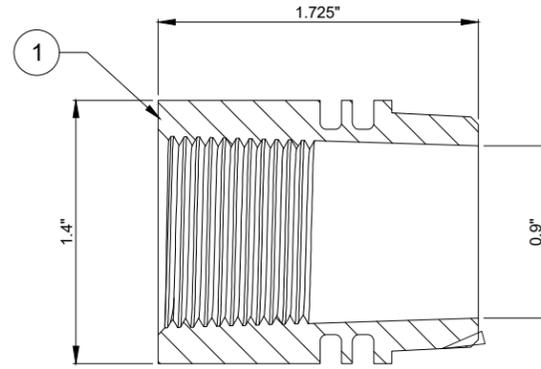
BY CHK

DATE: 14MAR2018

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END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
3/4" FNPT SMOOTH GROUT PORT

PROJECT NO:  
-

SCALE:  
NTS

SHEET NO:

C743

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

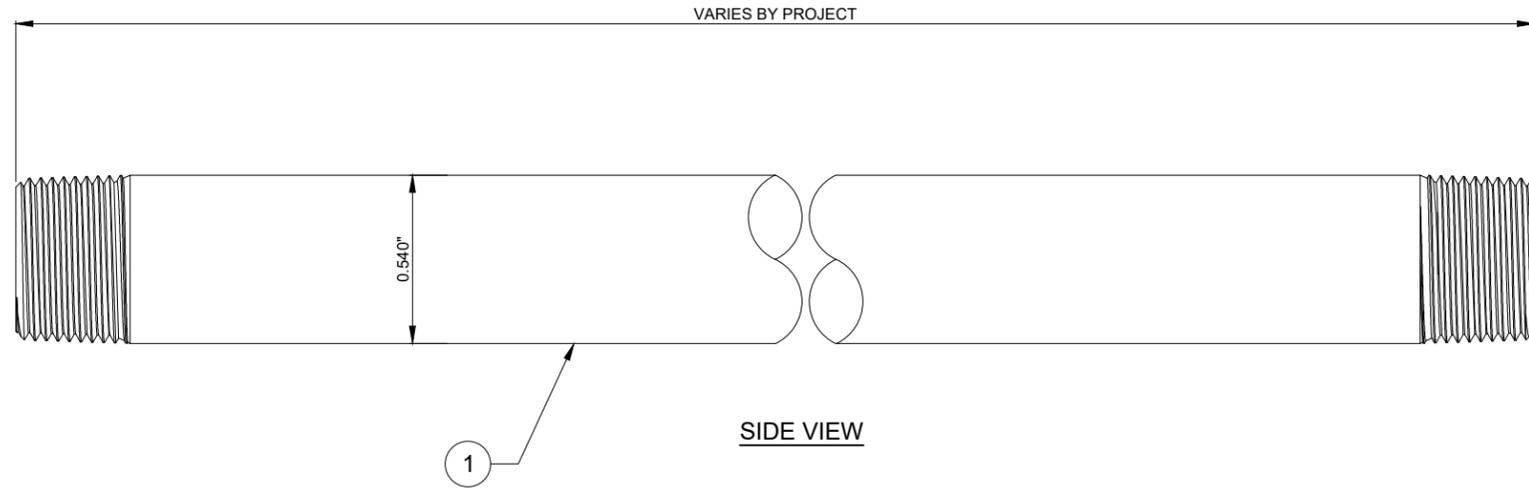
ZX

CHK

26FEB2018

DATE

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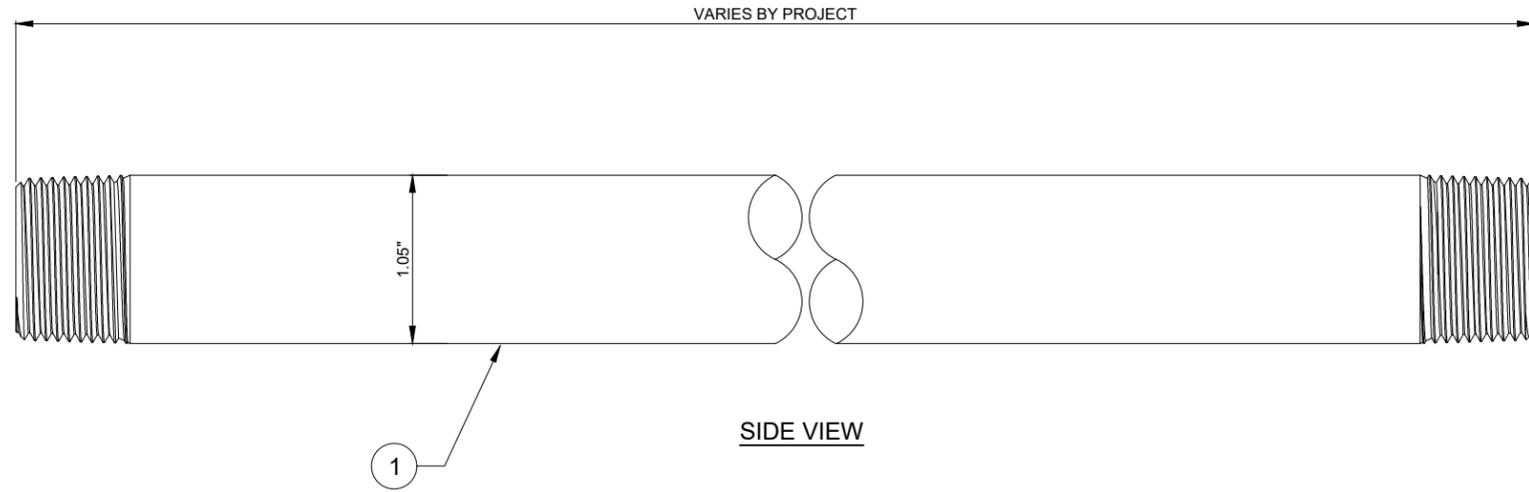


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1/4" NPT STEEL NIPPLE	SCH 40 STEEL

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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED, AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	SCALE:	NTS
SHEET NO:	C749	TITLE:	1/4" NPT STEEL NIPPLE
SYSTEM DRAWING		<p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL                  PHONE: (817) 545-4877                  FAX: (817) 545-4827                  WWW.VSL.NET</p>	
FIRST ISSUE		NO	NO
CDL	ZX	BY	CHK
DATE	26FEB2018	DATE	

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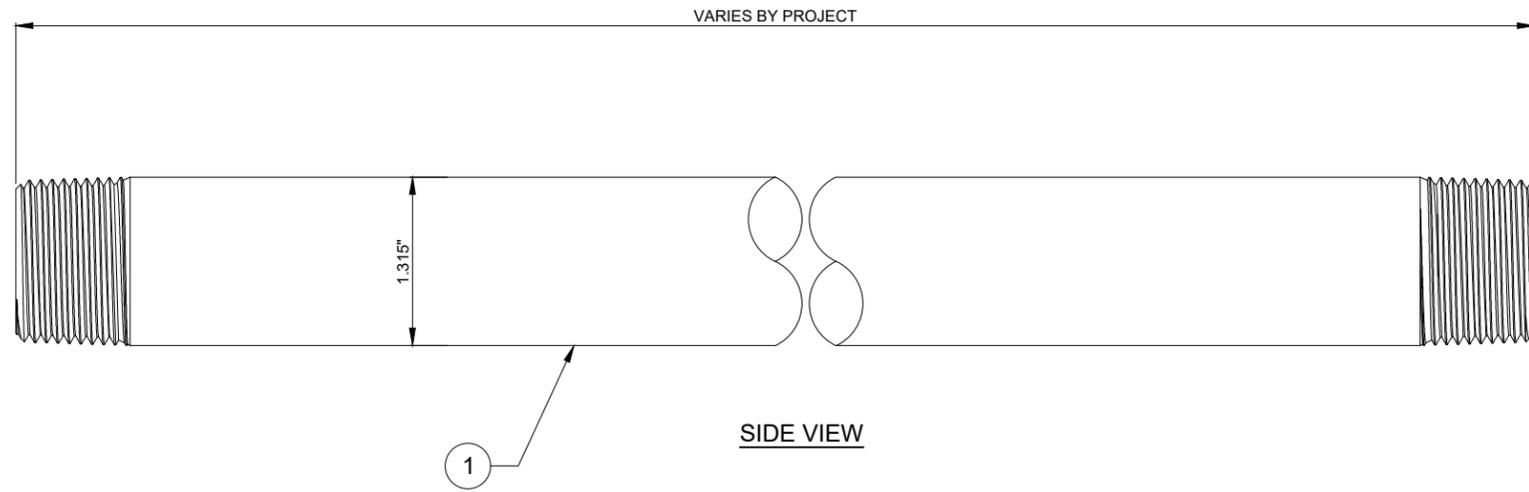


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3/4" NPT NIPPLE	SCH 40 STEEL

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PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
DATE:		26FEB2018	
SYSTEM DRAWING			
3/4" NPT STEEL NIPPLE			
STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156		 VSL A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET	
C722			

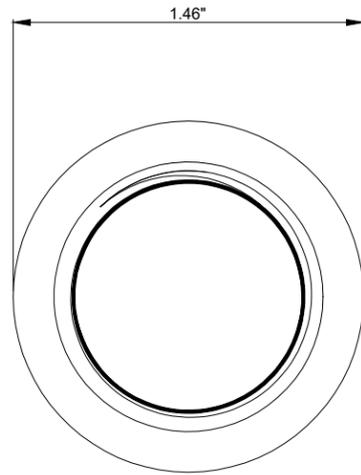
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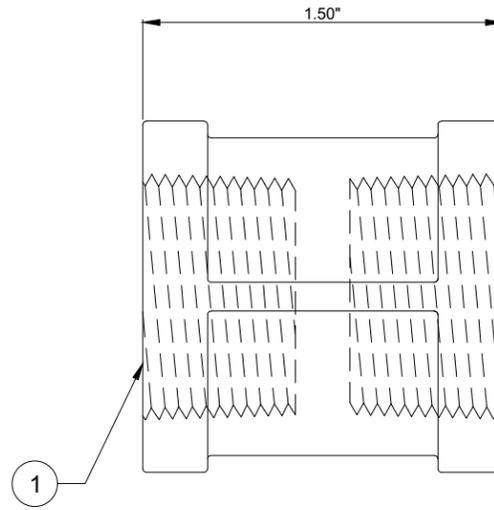
ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1" NPT STEEL NIPPLE	SCH 40 STEEL

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PROJECT NO:	1	CDL	ZX
SHEET NO:	C725	BY	CHK
TITLE:		DESCRIPTION	
1" NPT STEEL NIPPLE		FIRST ISSUE	
SCALE:		NO	
NTS		26FEB2018	
		DATE	



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -

SHEET NO:

TITLE:  
3/4" NPT F/F COUPLER

SCALE:  
NTS

C728

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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

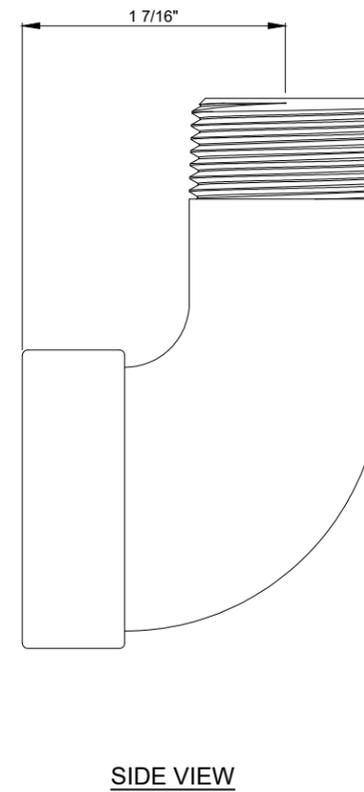
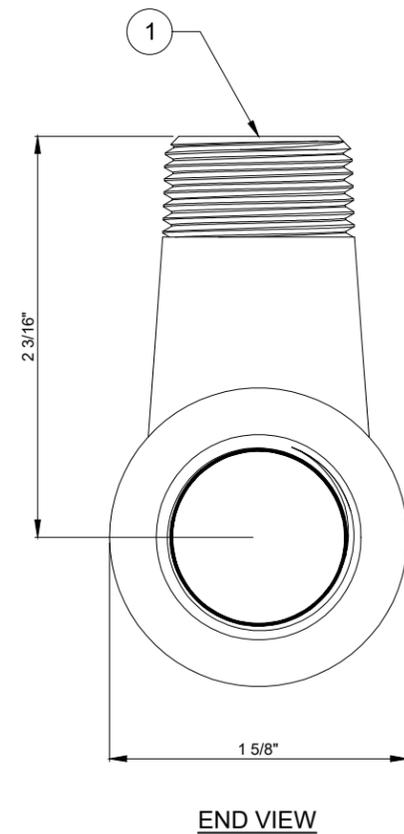
BY

CHK

DATE

26FEB2018

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954



THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -  
SHEET NO:

TITLE:  
3/4" FNPT X MNPT STEEL ELBOW

SCALE:  
NTS

C750

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

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FORT WORTH, TX 76156

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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

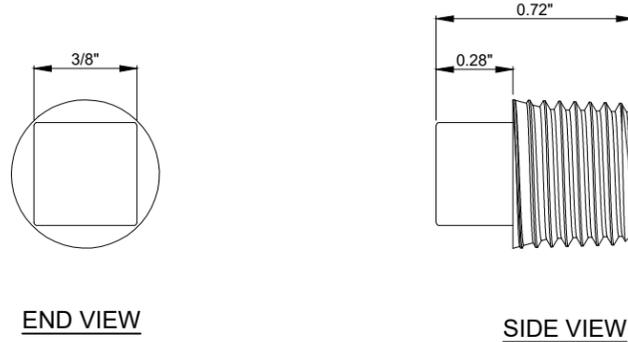
BY

CHK

DATE

26FEB2018

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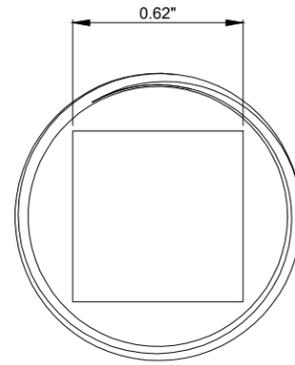


ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956

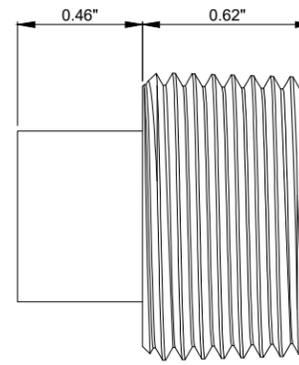
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PROJECT NO:	1	CDL	ZX
SHEET NO:	1	BY	CHK
SYSTEM DRAWING		FIRST ISSUE	
1/4" NPT STEEL PLUG		DESCRIPTION	
TITLE:		NO	
SCALE:		26FEB2018	
NTS		DATE	
C747			

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01957



END VIEW



SIDE VIEW

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -

SHEET NO: C748

TITLE:  
3/4" NPT STEEL PLUG

SCALE:  
NTS

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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

26FEB2018

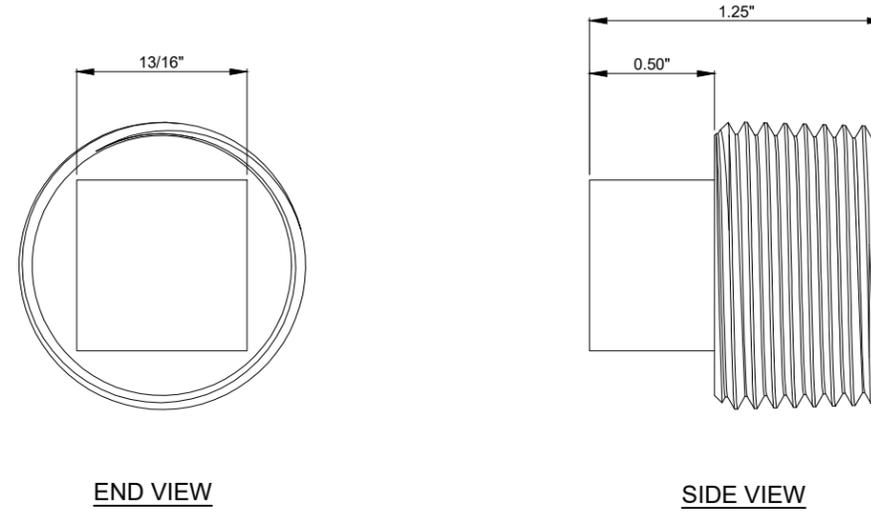
DATE

BY

CHK

DATE

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958



THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THE MATERIAL WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
SYSTEM DRAWING		FIRST ISSUE	
1" NPT STEEL PLUG		NO	
TITLE:		DESCRIPTION	
SCALE:		DATE	
NTS		26FEB2018	
C754			

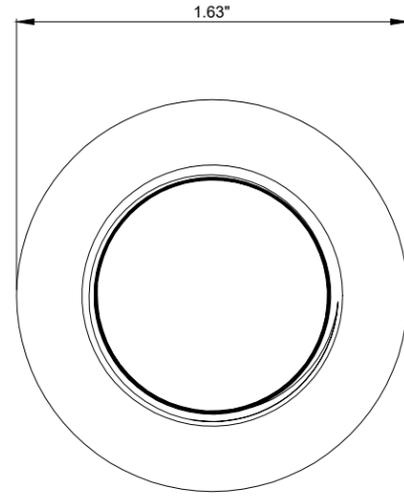
**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

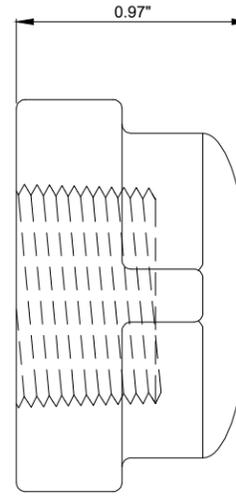
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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL CAP	SCH 40 STEEL	02DT01950



END VIEW

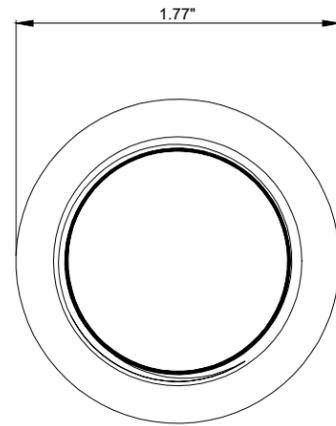


SIDE VIEW

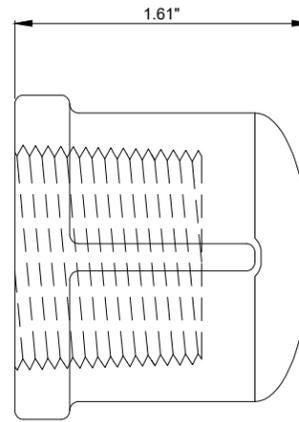
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PROJECT NO:	1	CDL	ZX
SHEET NO:	C724	BY	CHK
TITLE:	3/4" NPT STEEL CAP	NO	DATE
SCALE:	NTS	DESCRIPTION	26FEB2018
SYSTEM DRAWING		NO	DATE

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT STEEL CAP

PROJECT NO: -  
SHEET NO:

SCALE: NTS

C727

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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

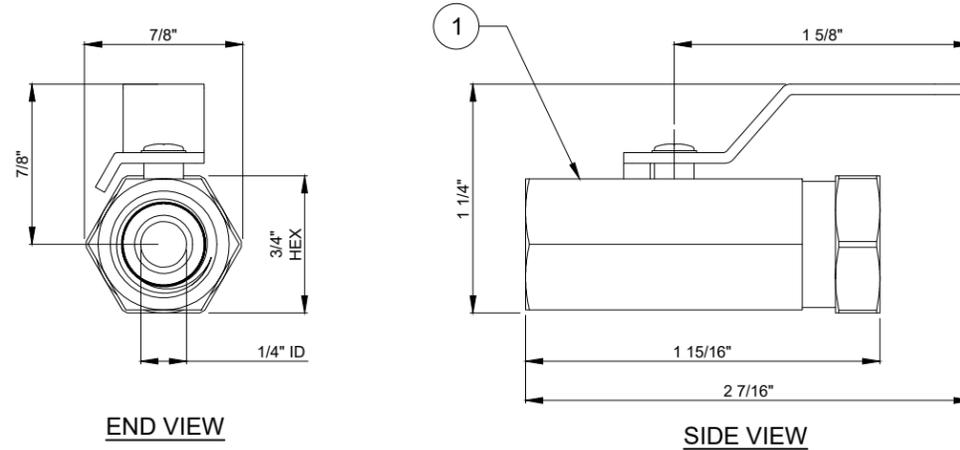
BY

CHK

DATE

26FEB2018

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" F/F NPT 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924



THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
1/4" F/F NPT 1/4 TURN BALL VALVE

PROJECT NO:

SCALE:  
NTS

SHEET NO:

C744

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DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

NO

FIRST ISSUE

DESCRIPTION

CDL

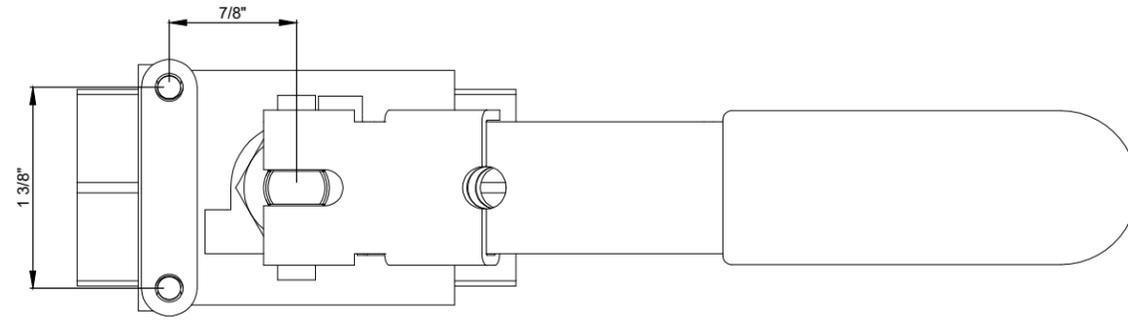
BY

ZX

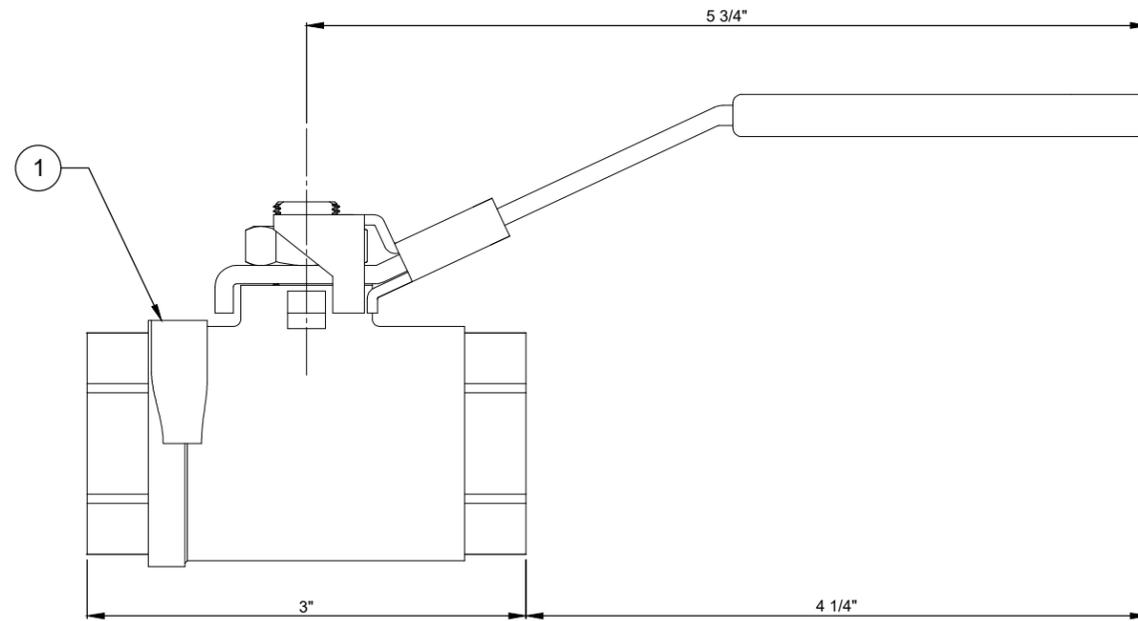
CHK

26FEB2018

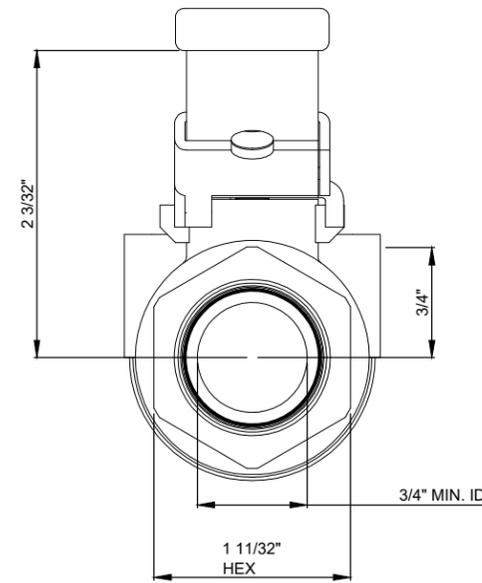
DATE



TOP VIEW



SIDE VIEW

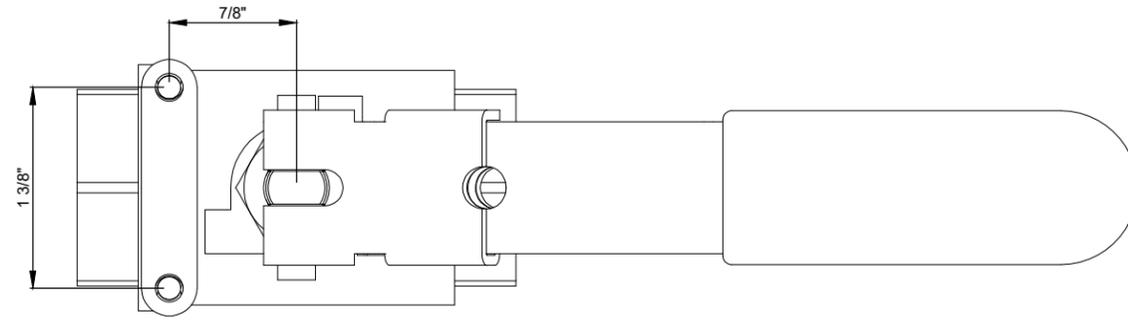


END VIEW

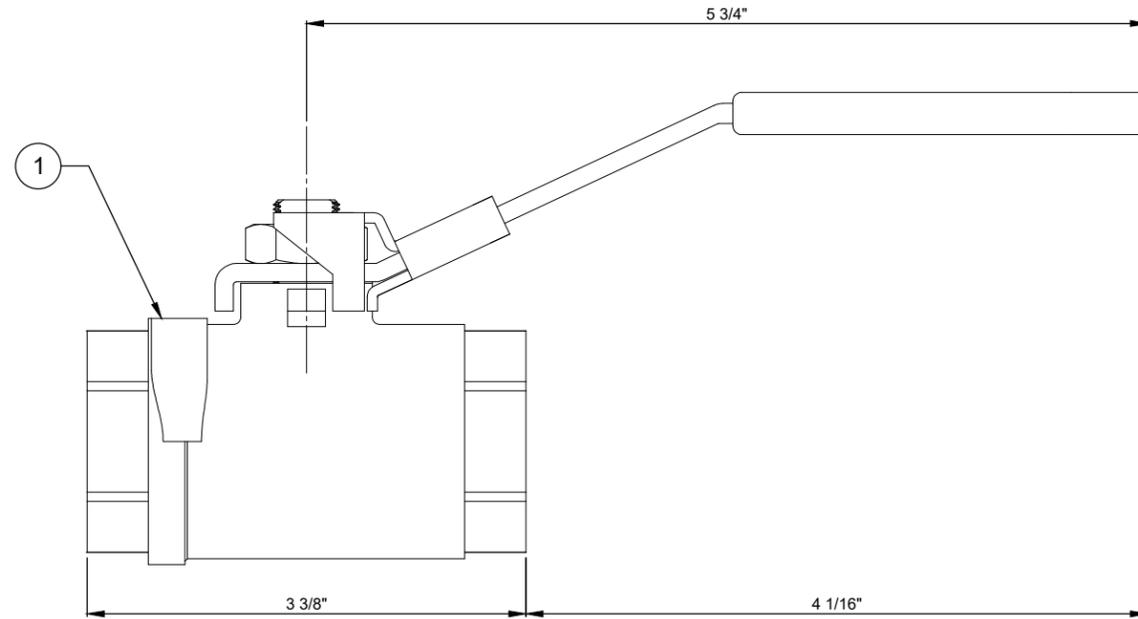
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01925

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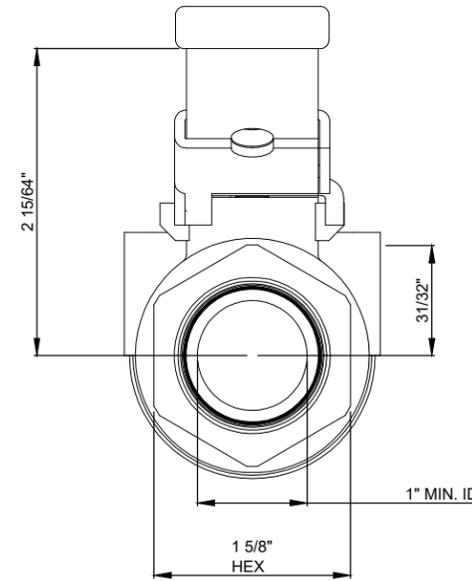
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES / VSL. THIS DRAWING WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
SYSTEM DRAWING		FIRST ISSUE	
TITLE:		DESCRIPTION	
3/4" NPT STEEL 1/4 TURN BALL VALVE		NO	
SCALE:		DATE	
NTS		26FEB2018	
C745			



TOP VIEW



SIDE VIEW



END VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926

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PROJECT NO:	1	DATE:	26FEB2018
SHEET NO:	C746	BY:	CDL
TITLE:	1" NPT STEEL 1/4 TURN BALL VALVE	CHK:	ZX
SCALE:	NTS	DESCRIPTION:	FIRST ISSUE
			NO

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Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

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FORT WORTH, TX 76156