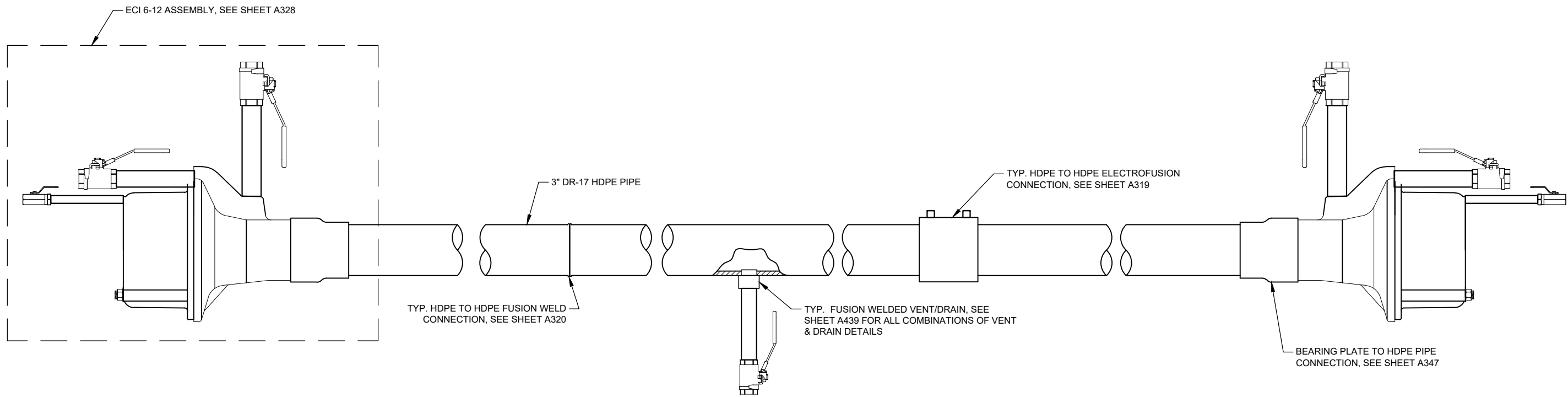
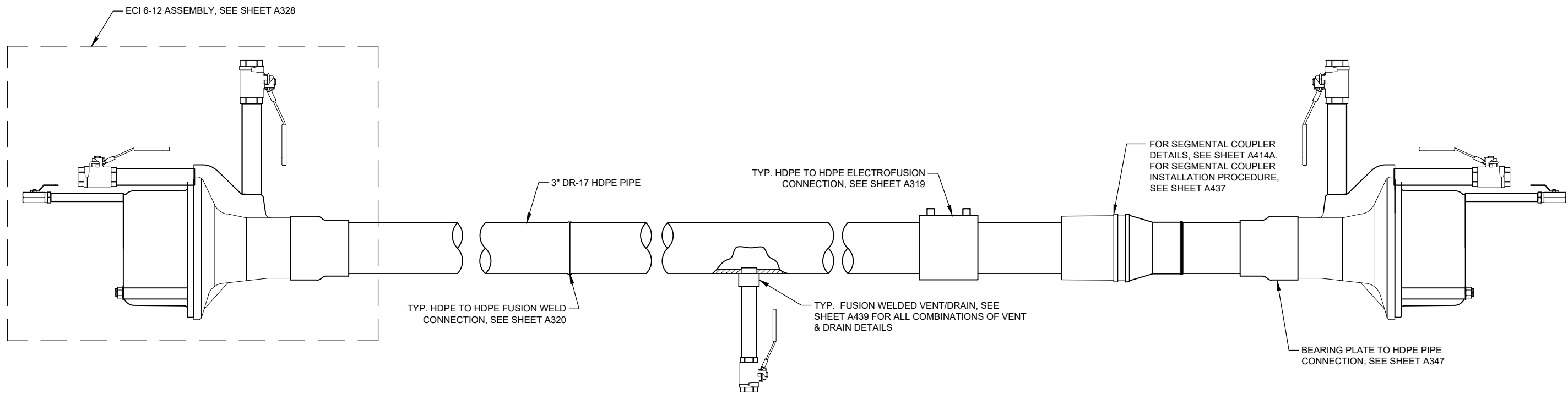


ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



**TENDON OVERALL ASSEMBLY**



**SEGMENTAL TENDON OVERALL ASSEMBLY**

- NOTES:
1. CONNECTIONS & MATERIALS SHOWN IN EITHER CONFIGURATION CAN BE USED INTERCHANGEABLE, OMITTING ANY CONNECTIONS NOT REQUIRED FOR A PARTICULAR JOB.
  2. COLD/FIELD MINIMUM BEND RADIUS FOR 3" HDPE PIPE IS 16'-0".
  3. HOT/PRE-BENT MINIMUM BEND RADIUS FOR 3" HDPE PIPE WITH 12 STRANDS IS 8'-0". REFER TO HDPE PIPE HEATED PRE-BENDING PROCEDURE.

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES, LLC POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES, LLC BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES, LLC TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES, LLC DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES, LLC 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.

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PROJECT INFORMATION:		DATE	18FEB2020
SYSTEM DRAWING	BY	CHK	ZX
TITLE: ECI 6-12 TENDON W/ FLEXIBLE FILLER OVERALL ASSEMBLY		DESCRIPTION	APPROVED FOR CONSTRUCTION
PROJECT NO: SYSTEM	SCALE: NTS	NO	NO
SHEET NO: A329A			

**structural TECHNOLOGIES**

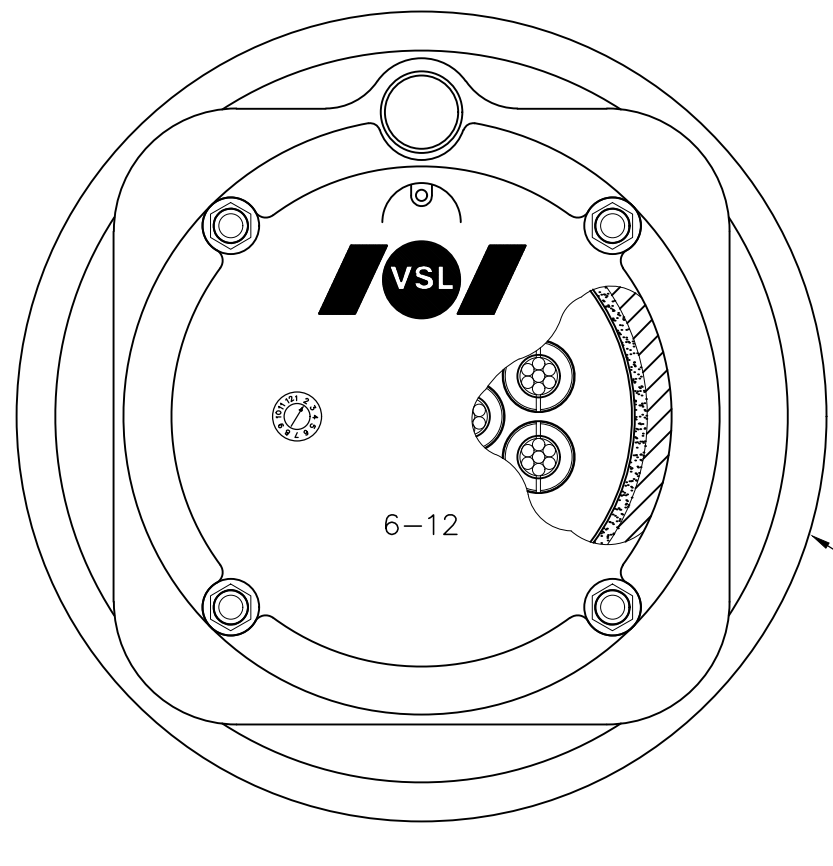
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CORPORATE OFFICE

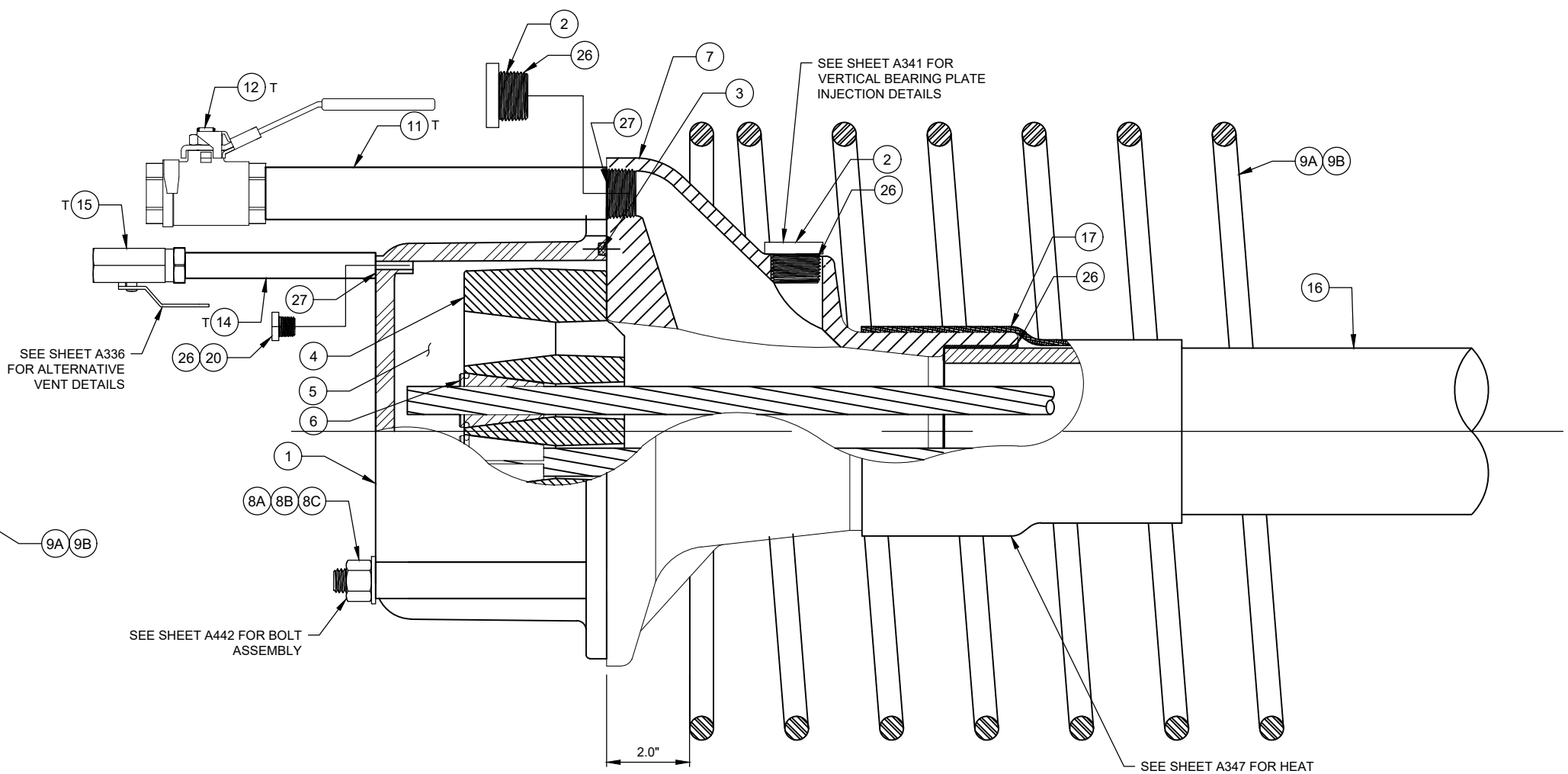
10150 OLD COLUMBIA RD  
COLUMBIA, MD 21046

PHONE: (410) 850-7000  
structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



**END VIEW**



**ELEVATION VIEW**

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

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

1. ASSEMBLE TRUMPET INTO THE BEARING PLATE. APPLY 1/4" BONDUIT ALL AROUND LIP OF BEARING PLATE PRIOR TO INSTALLING TRUMPET. USE SLOT TO ALIGN PLATE AND TRUMPET. INSERT TRUMPET UNTIL LOCKING TABS ENGAGE.
2. 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.
3. INSTALL AND SECURE SPIRAL.
4. 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).
5. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
6. PER FDOT SPECIFICATION SECTION 462-8.2.1.2, A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.
7. CONCRETE PLACEMENT OCCURS BY OTHERS.
8. INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
9. INSTALL ANCHOR HEADS AND WEDGES. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY. ALIGN ANCHOR HEAD TO BEARING PLATE USING A ANCHORAGE CAP TEMPLATE.
10. ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
11. ELONGATION SHOULD BE WITHIN ±7%.
12. AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
13. AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP WITH O-RING.
14. SYSTEM IS NOW READY TO AIR TEST.
15. PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER STRAND STRESSING AND PRIOR TO WAX INJECTION.
16. WAX TENDON PER WAX SPEC.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" NPT HORIZ. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61202	C548
2	2	1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948	C879
3	1	ECI 6-12 ANCHORAGE CAP O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX5020	C796
4	1	ECI 6-12 ANCHOR HEAD	CAST IRON GR80-55-06 PER ASTM A536	02AH0037	C556
5	-	FLEXIBLE FILLER	FDOT APL	-	-
6	12	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17 PER ASTM A108	02WG0008	C218
7	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0037V	C737
8A	1 SET	1/2"-13 THREADED ROD X 6 1/2"	(316L) STAINLESS PER ASTM F593	02WX5021D	A442
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5021D	A442
8C	1 SET	1/2" WASHER	(316L) STAINLESS PER ASTM A240	02WX5021D	A442
9A	1	SPIRAL ECI 6-12 (#5 13" DIA., 7 TURNS, 2" PITCH)	STEEL GR60 PER ASTM A615	02BP0096	C728
9B	1	SPIRAL ECI 6-12 (#4 13" DIA., 7 TURNS, 2" PITCH)	STEEL GR60 PER ASTM A615	02BP0097	C728
11	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-	C725
12	1	STEEL 1/4 TURN BALL VALVE W/ 1" FNPT	SCH 40 STEEL	02DT01926	C746
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-	C749
15	1	STEEL 1/4 TURN BALL VALVE W/ 1/4" FNPT	SCH 40 STEEL	02DT01924	C811
16	1	3" DR-17 PIPE	HDPE BLACK PER ASTM D3350	-	C882A
17	1	CANUSA KLNN-90 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER TABLE 960 2.2.1.8-1	02DT0513	C761
20	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693
26	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
27	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-

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

STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046

PHONE: (410) 850-7000 structuraltechnologies.com

PROJECT INFORMATION:

**SYSTEM DRAWING**

**ECI 6-12 ASSEMBLY WITH FLEXIBLE FILLER**

PROJECT NO: **SYSTEM**

SCALE: **NTS**

SHEET NO: **A328**

DATE: 29JAN2020

BY: **CDL**

CHK: **ZX**

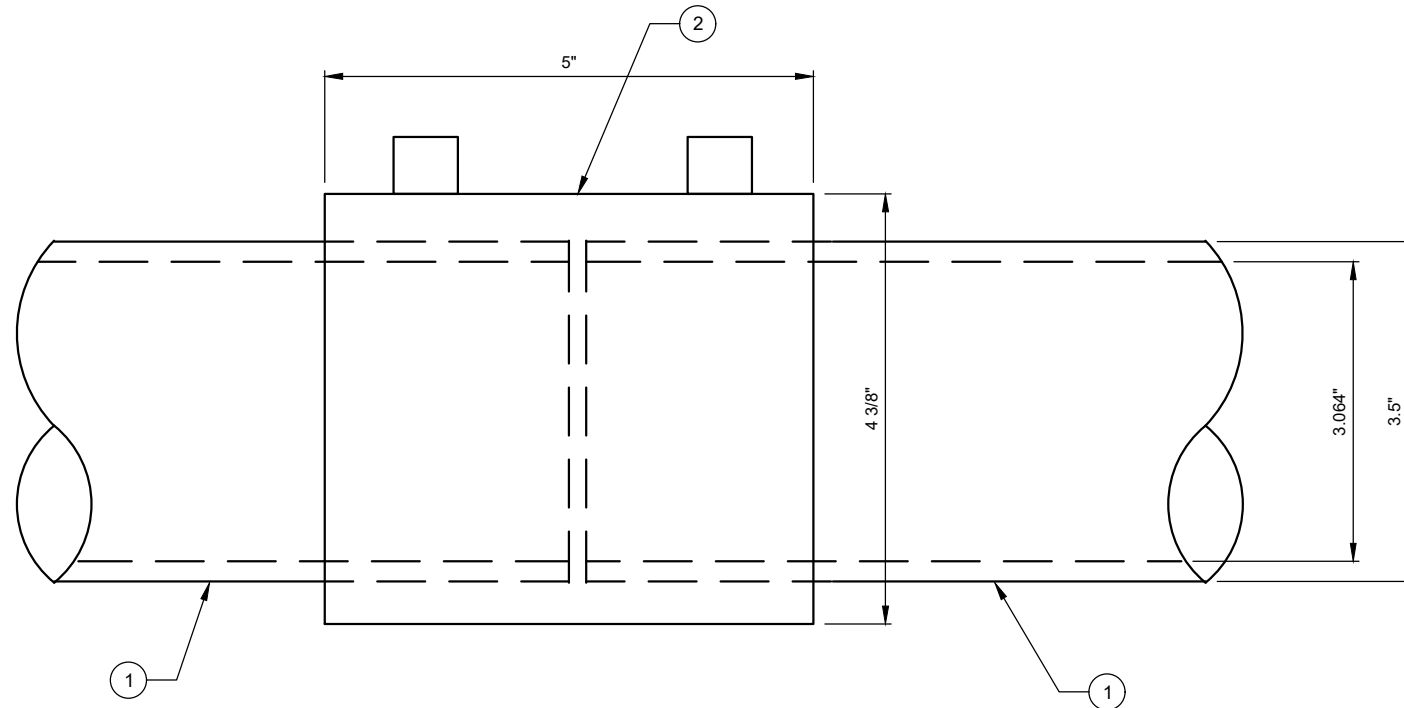
APPROVED FOR CONSTRUCTION

DESCRIPTION

NO

NO

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EC 6-7 Flexible Filler Submittal



**ELEVATION VIEW**

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

NOTE:  
FOLLOW COUPLER MANUFACTURER'S  
INSTALLATION INSTRUCTIONS

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	3" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	C882A
2	1	3" ELECTROFUSION COUPLER	COMPOSITE	02EF0003	C896

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
**3" HDPE PIPE TO 3" HDPE PIPE  
ELECTROFUSION COUPLER CONNECTION**

PROJECT NO:  
**SYSTEM**

SCALE:  
**NTS**

SHEET NO:

**A319**

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CHK

CDL ZX

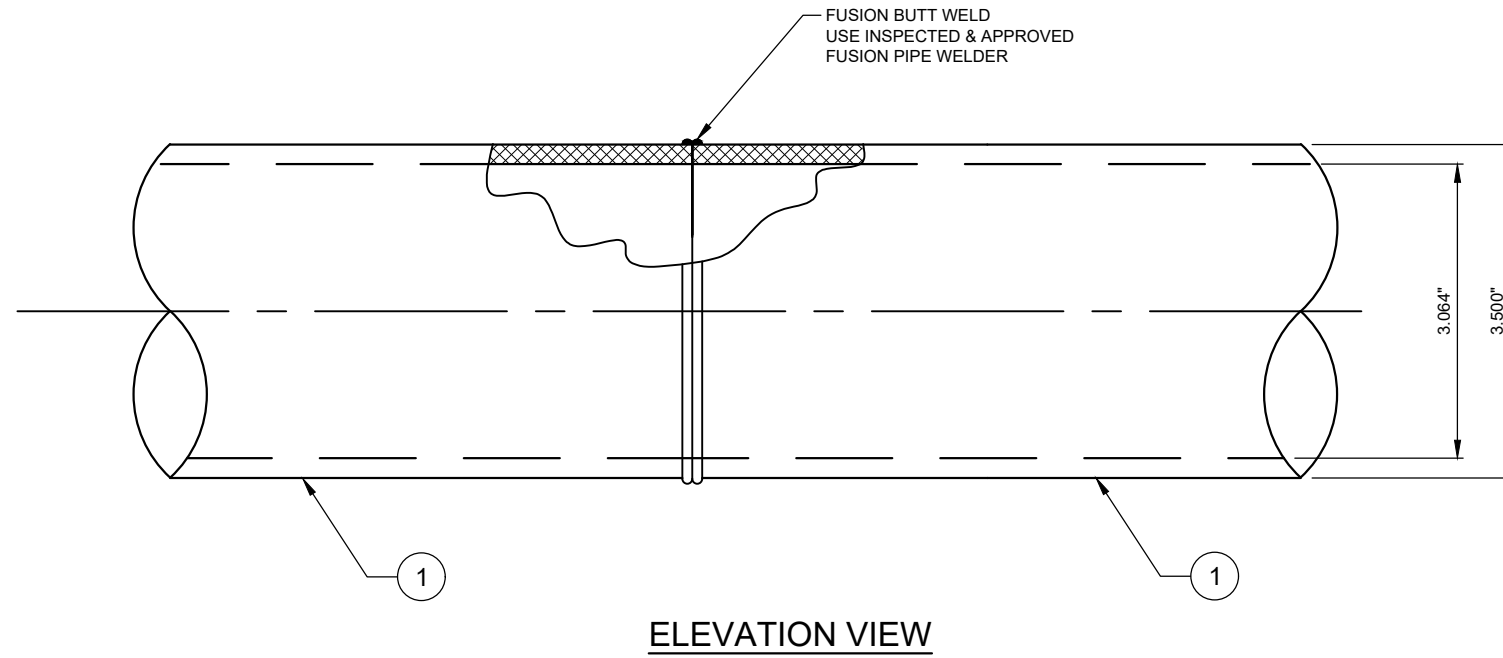
DATE

29JAN2020

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 CORPORATE OFFICE COLUMBIA, MD 21046  
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ELEVATION VIEW

- NOTES:
1. HDPE 3" IPS/DR-17 MEETS FDOT 960 SPEC.
  2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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ITEM	QTY	DESCRIPTION	MATERIAL	DWG #
1	2	3" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	C882A

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
**TYPICAL 3" HDPE PIPE TO 3" HDPE PIPE FUSION WELDED CONNECTION**

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

**A320**

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

DESCRIPTION

CHK

DATE

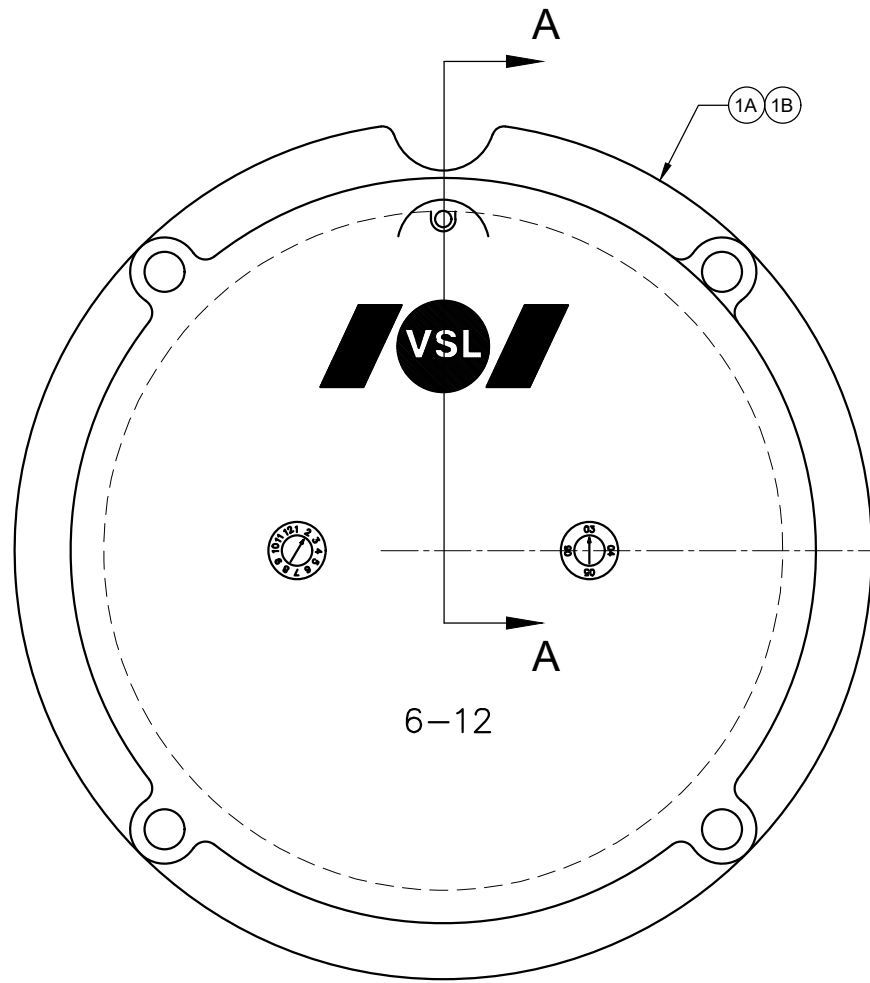
29JAN2020

**structural TECHNOLOGIES**

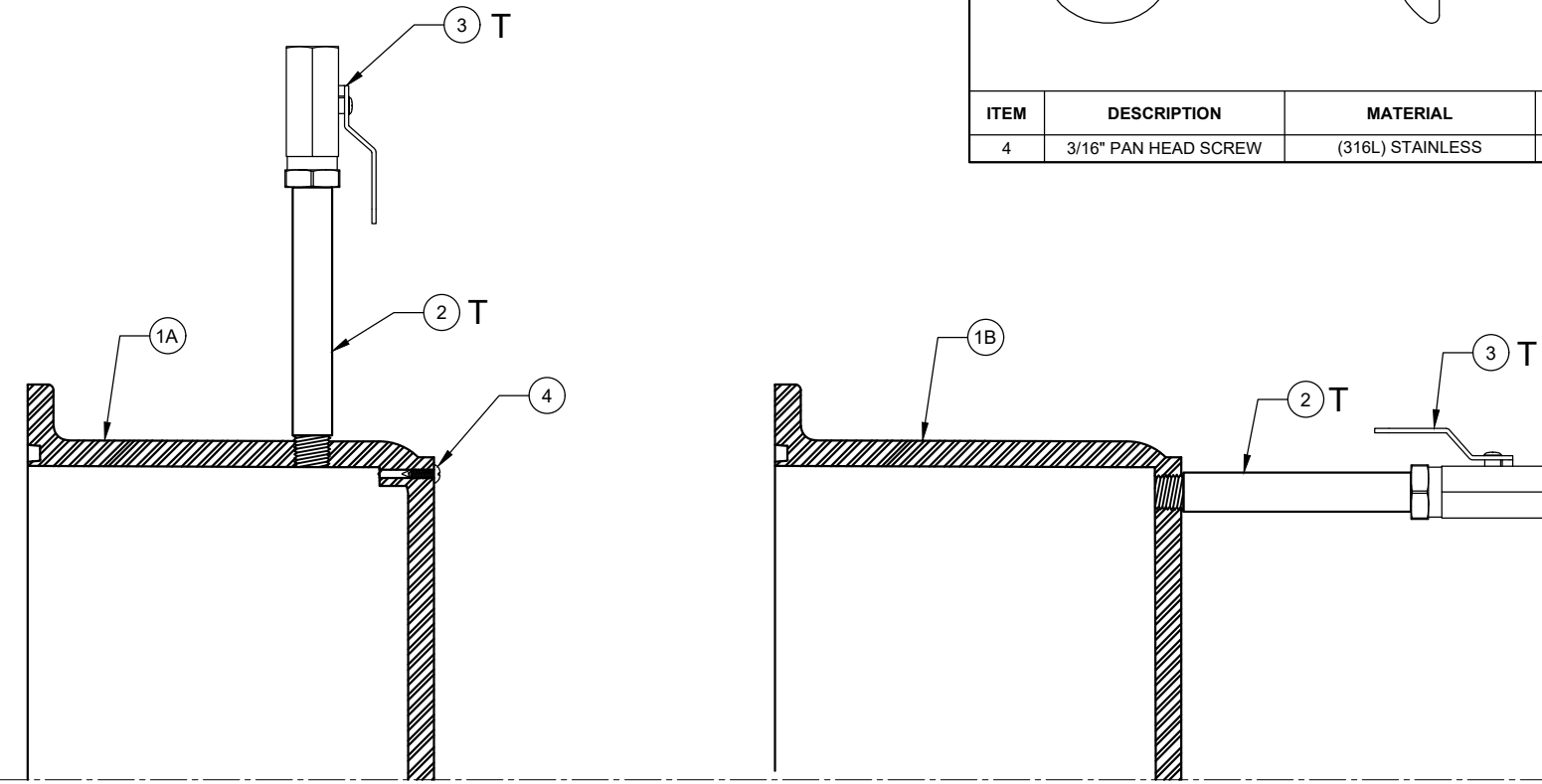
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 860-7000  
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ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



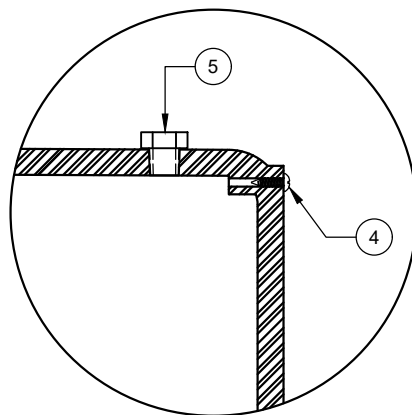
ECI 6-12 ANCHORAGE CAP



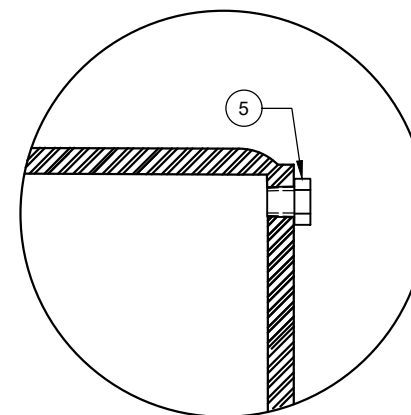
TOP PORT

SECTION A-A

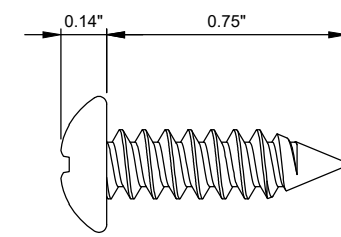
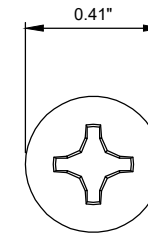
FRONT PORT



AFTER WAX



AFTER WAX



ITEM	DESCRIPTION	MATERIAL	INVENTORY #
4	3/16" PAN HEAD SCREW	(316L) STAINLESS	02WX7001

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" VERT. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61203	C739
1B	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" HORIZ. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61202	C548
2	1	1/4" NPT STEEL NIPPLE	SCH 80 STEEL	-	C749
3	1	STEEL 1/4 TURN BALL VALVE W/ 1/4" FNPT	SCH 80 STEEL	02DT01924	C744
4	1	3/16" PAN HEAD SCREW	(316L) STAINLESS PER ASTM A240	02WX7001	A336
5	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693

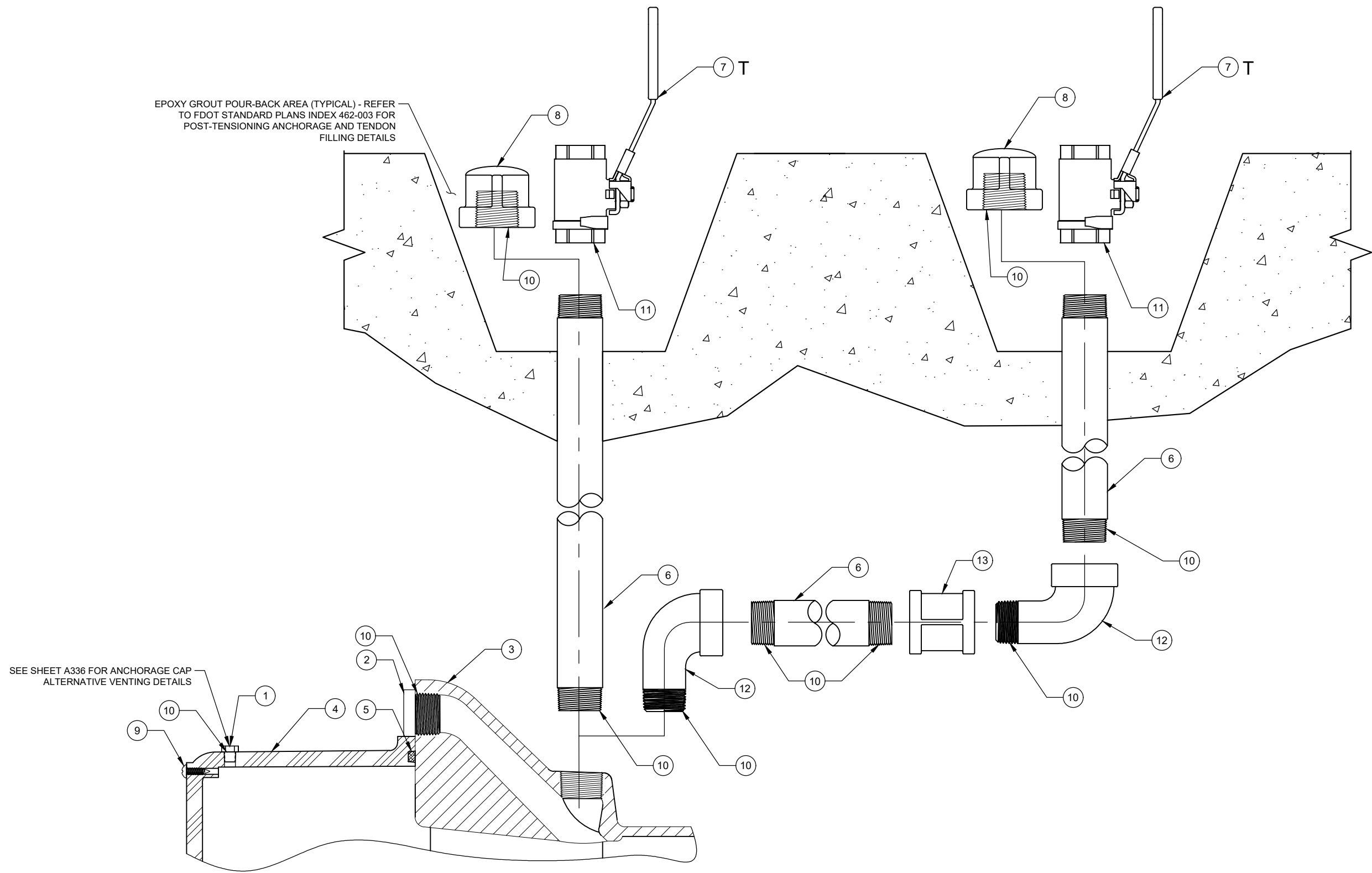
NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.

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PROJECT INFORMATION:		APPROVED FOR CONSTRUCTION	CDL ZK	29JAN2020	DATE
SYSTEM DRAWING		NO	BY	CHK	DATE
TITLE:		DESCRIPTION			
PROJECT NO:		NO			
SYSTEM		NTS			
SHEET NO:		A336			
STRUCTURAL TECHNOLOGIES, LLC		10150 OLD COLUMBIA RD COLUMBIA, MD 21046			
STRUCTURAL TECHNOLOGIES, LLC		Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL			
CORPORATE OFFICE		PHONE: (410) 860-7000 structuraltechnologies.com			

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

SEE SHEET A336 FOR ANCHORAGE CAP ALTERNATIVE VENTING DETAILS

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693
2	1	1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948	C879
3	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0037V	C737
4	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" VERT. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61203	C739
5	1	ECI 6-12 ANCHORAGE CAP O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX5020	C796
6	1	1" NPT NIPPLE	SCH 40 STEEL	-	C725
7	1	STEEL 1/4 TURN BALL VALVE W/ 1" FNPT	SCH 40 STEEL	02DT01926	C746
8	1	1" NPT PP CAP	BLACK POLYPROPYLENE PER ASTM D4101	02DT01941	C877
9	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL PER ASTM A240	02WX7001	A336
10	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
11	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-
12	2	1" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01955	C751
13	1	1" NPT F/F COUPLER	SCH 40 STEEL	02DT01953	C752

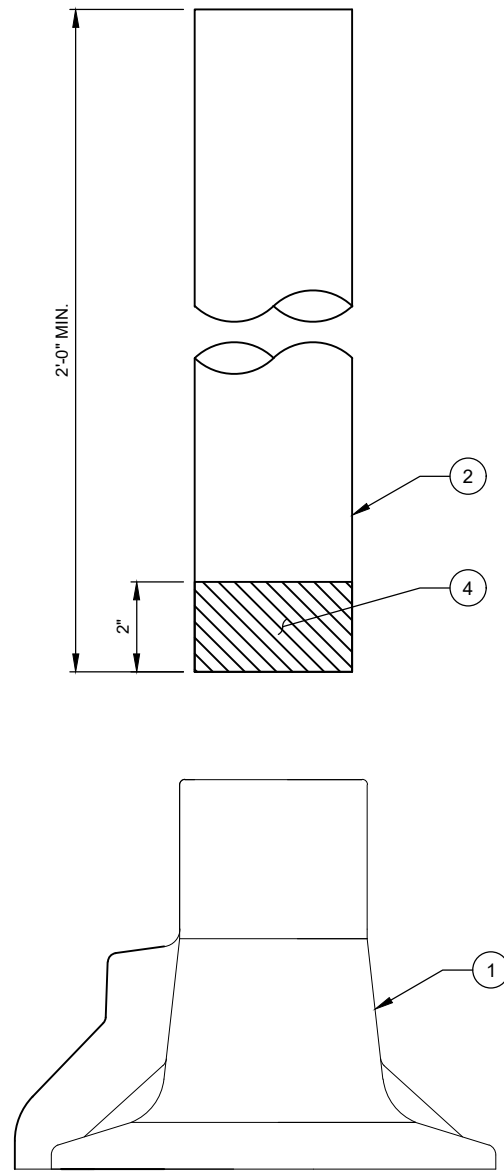
- NOTES:
- ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
  - ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI
  - CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

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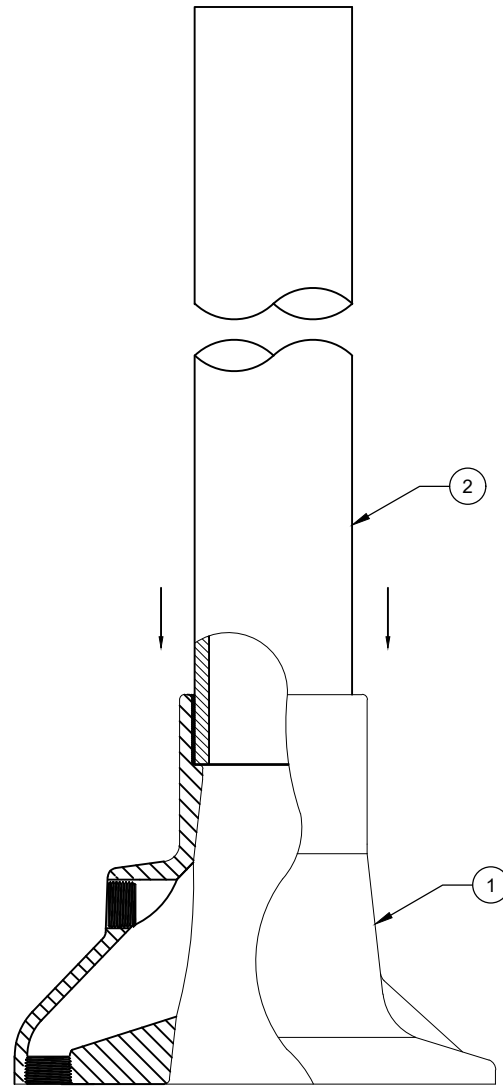
<p><b>structural TECHNOLOGIES</b>          Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL          STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046          PHONE: (410) 850-7000          structuraltechnologies.com</p>	<p><b>PROJECT INFORMATION:</b></p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A341</p> <p>TITLE: ECI 6-12 VERTICAL BEARING PLATE INJECTION OPTIONS</p> <p>SCALE: NTS</p>
<p>APPROVED FOR CONSTRUCTION</p>	<p>DESCRIPTION</p>
<p>NO</p>	<p>NO</p>
<p>BY</p>	<p>CHK</p>
<p>CDL ZX</p>	<p>DATE</p>
<p>29JAN2020</p>	<p></p>

ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



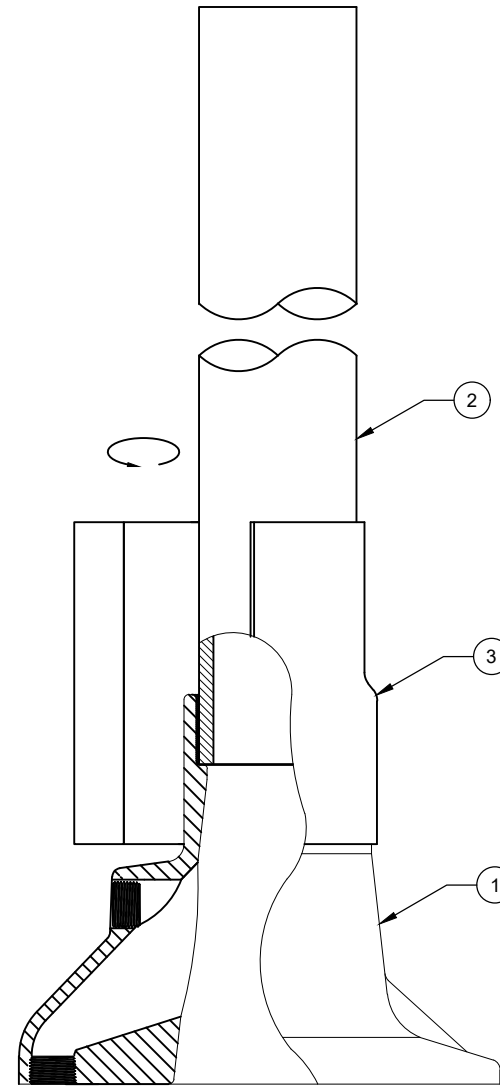
**STEP 1**

- STEP 1**
- ORIENT BEARING PLATE IN VERTICAL POSITION.
  - APPLY BONDUIT AROUND OUTSIDE OF END OF PIPE (2" MIN.) THAT WILL BE INSERTED INTO BEARING PLATE. TOTAL PIPE LENGTH SHOULD BE 2'-0" MIN.



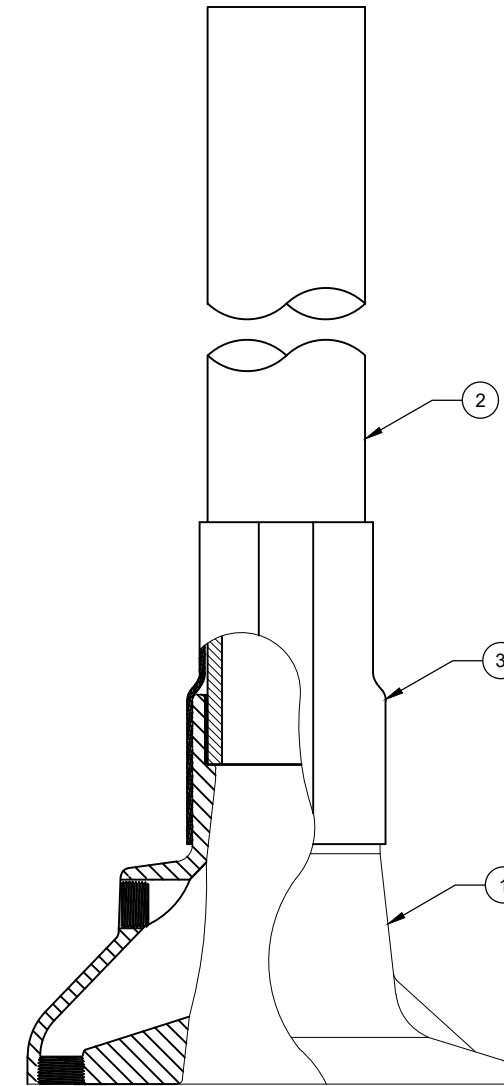
**STEP 2**

- STEP 2**
- INSERT PIPE INTO BEARING PLATE.
  - WAIT MIN. 1 HOUR FOR BONDUIT TO SET.



**STEP 3**

- STEP 3**
- AFTER BONDUIT HAS SET FOR 1 HOUR, WRAP HEAT SHRINK SLEEVE AROUND BEARING PLATE AND PIPE AS SHOWN.



**STEP 4**

- STEP 4**
- FOLLOW HEAT SHRINK INSTALLATION INSTRUCTIONS (PROVIDED AS A SEPARATE APPENDIX).

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0037V	C737
2	1	3" DR-17 PIPE	HDPE PER ASTM D3350	-	C882A
3	1	CANUSA KLNN-90 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0513	C761
4	-	BONDUIT	-	-	-

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
**ECI 6-12 HEAT SHRINK SLEEVE ASSEMBLY**

PROJECT NO:  
**SYSTEM**

SHEET NO:  
**A347**

SCALE:  
**NTS**

NO	APPROVED FOR CONSTRUCTION	CDL	ZX	29JAN2020
NO	DESCRIPTION	BY	CHK	DATE

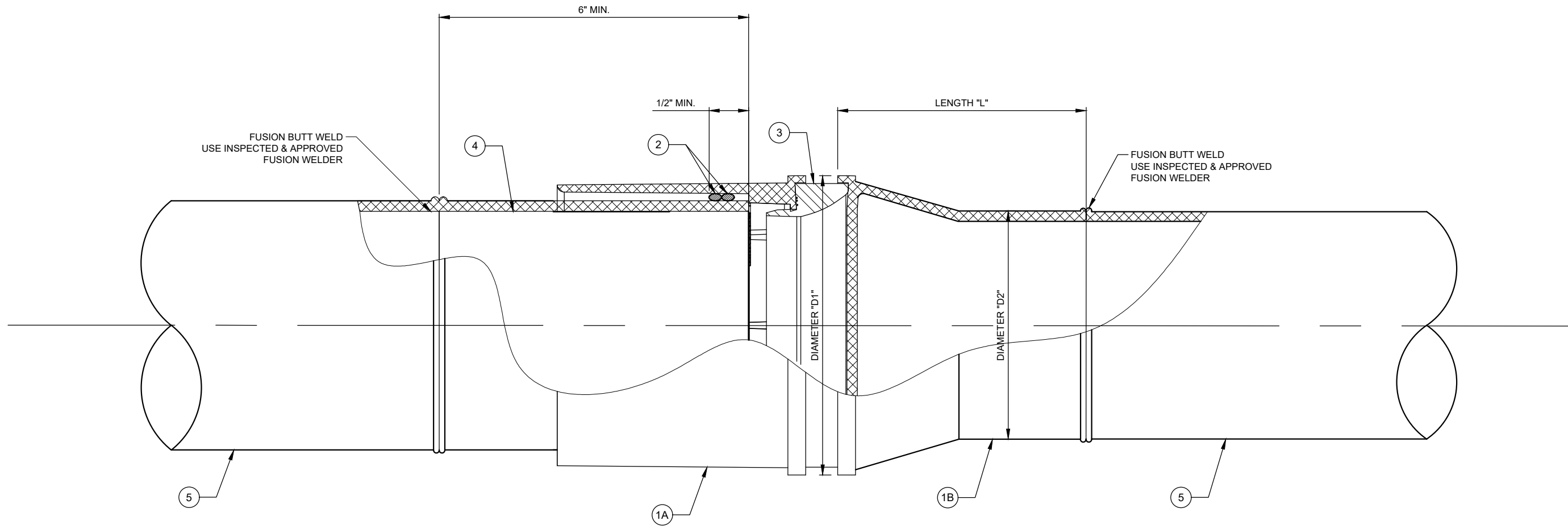
**structural TECHNOLOGIES**

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

STRUCTURAL TECHNOLOGIES, LLC    10150 OLD COLUMBIA RD  
CORPORATE OFFICE                    COLUMBIA, MD 21046

PHONE: (410) 860-7000  
structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



ELEVATION VIEW

3" PIPE SEGMENTAL COUPLER					
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	76MM DUCT SC - HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC07601	C646
1B	1	3" SC BLK - TAPERED HUB	HDPE BLACK PER ASTM D3350	02SC07611	C860
2	2	76MM SEGMENTAL COUPLER O-RING	BUNA-N 70D PER FDOT 960 TABLE 2.2.1.7-1	02WX0232	C903
3	1	76MM DUCT SC - FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC07603	C648
4	-	3" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	C882A

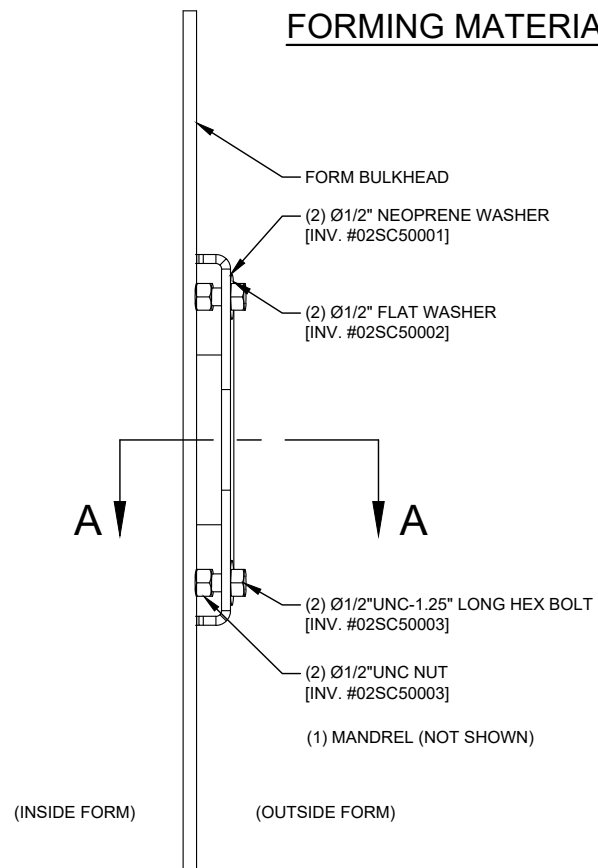
TAPERED HUB SIZE CHART			
DESCRIPTION	LENGTH "L"	DIAMETER "D1"	DIAMETER "D2"
3" SC BLK - TAPERED HUB	3.09"	4.00"	3.27"

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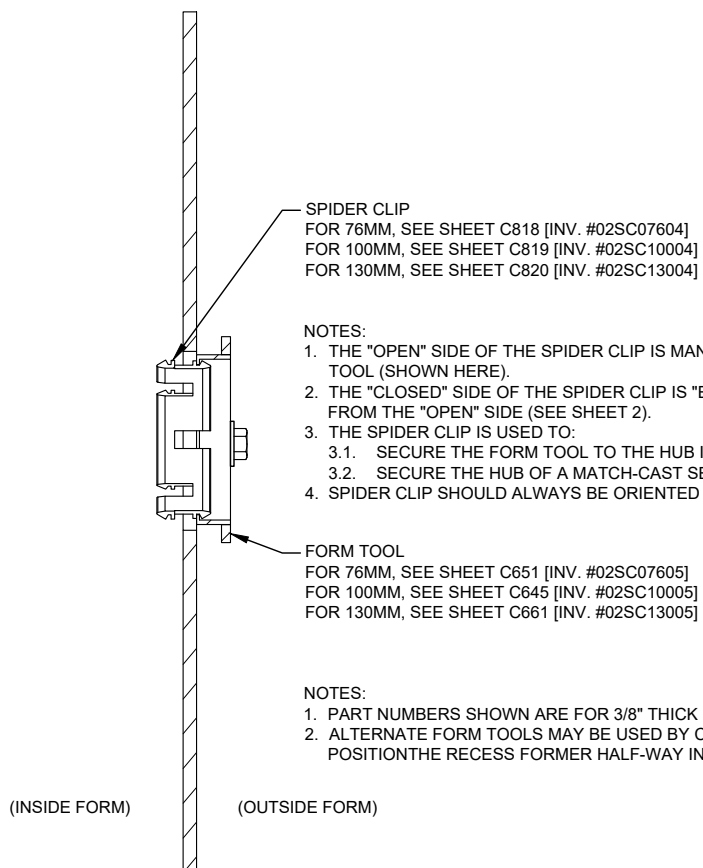
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PROJECT INFORMATION:		SYSTEM DRAWINGS	
		3" PIPE FLEXIBLE FILLER SEGMENTAL COUPLER CONNECTION	
PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:		A414A	
		Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com	
APPROVED FOR CONSTRUCTION	NO	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK	DATE

## FORMING MATERIALS



## FORM PLAN VIEW



### NOTES:

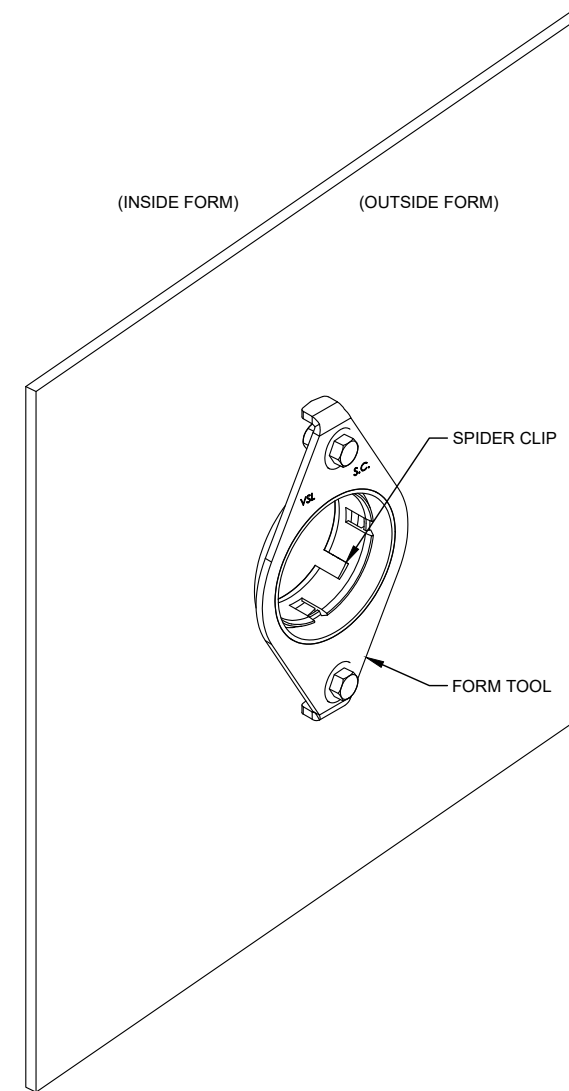
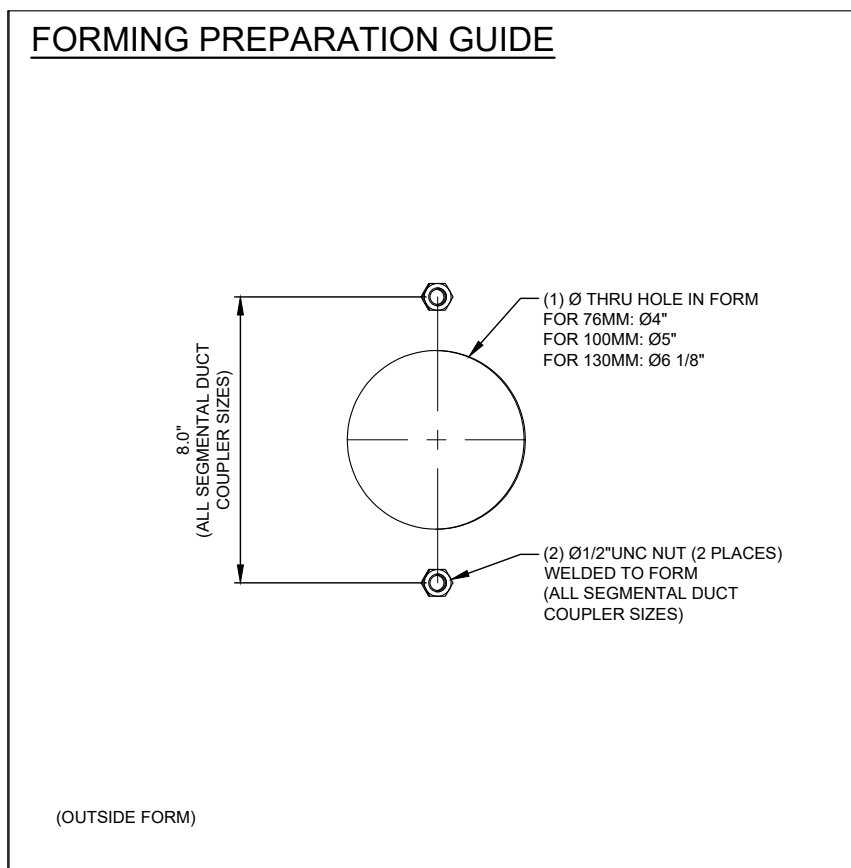
- THE "OPEN" SIDE OF THE SPIDER CLIP IS MANUALLY "SNAPPED" ONTO EITHER THE HUB (SHOWN SHEET 4) OR THE FORM TOOL (SHOWN HERE).
- THE "CLOSED" SIDE OF THE SPIDER CLIP IS "ENGAGED" WHEN THE MANDREL IS INSERTED THROUGH THE SPIDER CLIP FROM THE "OPEN" SIDE (SEE SHEET 2).
- THE SPIDER CLIP IS USED TO:
  - SECURE THE FORM TOOL TO THE HUB IN CASE OF A WET CAST (SEE SHEETS 1-3), AND
  - SECURE THE HUB OF A MATCH-CAST SEGMENT TO THE HUB OF A PRE-CAST SEGMENT (SEE SHEET 4-6).
- SPIDER CLIP SHOULD ALWAYS BE ORIENTED AS SHOWN WITH THE WIDE MANDREL RAMPS VERTICAL TO EACH OTHER.

### NOTES:

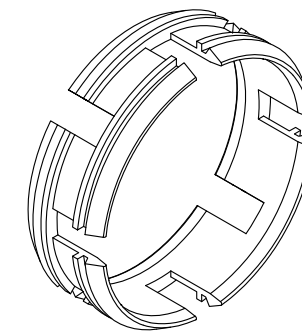
- PART NUMBERS SHOWN ARE FOR 3/8" THICK FORMWORK ONLY
- ALTERNATE FORM TOOLS MAY BE USED BY CONTRACTOR ONLY IF THEY PERMIT ±6° SKEW ANGLE AND IF THEY POSITION THE RECESS FORMER HALF-WAY INSIDE THE FORM BEING CAST.

## FORM ELEVATION VIEW SECTION A-A

## FORMING PREPARATION GUIDE



## SPIDER CLIP DETAIL



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SYSTEM DRAWING		BY	CHK
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		CDL	ZX
APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO		NO	
STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 CORPORATE OFFICE		PHONE: (410) 850-7000 structuraltechnologies.com	
PROJECT NO: SYSTEM		SCALE: NTS	
SHEET NO: A437 - 1 of 8			

**structural  
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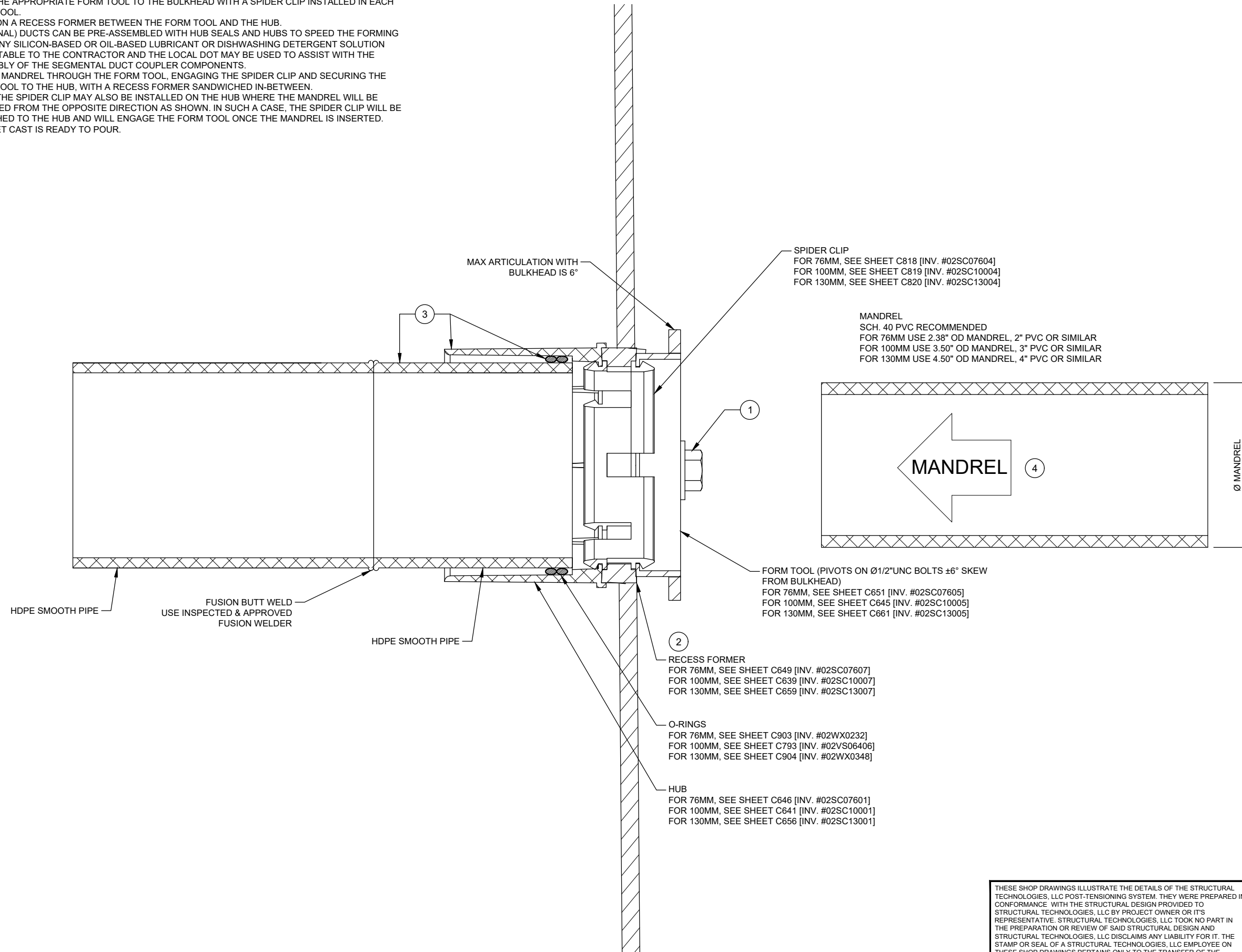
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CORPORATE OFFICE

ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

# SEGMENTAL DUCT COUPLER INSTALLATION GUIDE

## WET CAST FORM

1. BOLT THE APPROPRIATE FORM TOOL TO THE BULKHEAD WITH A SPIDER CLIP INSTALLED IN EACH FORM TOOL.
2. POSITION A RECESS FORMER BETWEEN THE FORM TOOL AND THE HUB.
3. (OPTIONAL) DUCTS CAN BE PRE-ASSEMBLED WITH HUB SEALS AND HUBS TO SPEED THE FORMING TIME. ANY SILICON-BASED OR OIL-BASED LUBRICANT OR DISHWASHING DETERGENT SOLUTION ACCEPTABLE TO THE CONTRACTOR AND THE LOCAL DOT MAY BE USED TO ASSIST WITH THE ASSEMBLY OF THE SEGMENTAL DUCT COUPLER COMPONENTS.
4. INSERT MANDREL THROUGH THE FORM TOOL, ENGAGING THE SPIDER CLIP AND SECURING THE FORM TOOL TO THE HUB, WITH A RECESS FORMER SANDWICHED IN-BETWEEN.
5. NOTE: THE SPIDER CLIP MAY ALSO BE INSTALLED ON THE HUB WHERE THE MANDREL WILL BE INSERTED FROM THE OPPOSITE DIRECTION AS SHOWN. IN SUCH A CASE, THE SPIDER CLIP WILL BE ATTACHED TO THE HUB AND WILL ENGAGE THE FORM TOOL ONCE THE MANDREL IS INSERTED.
6. THE WET CAST IS READY TO POUR.



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SYSTEM DRAWING	SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE	BY	CDL ZX
PROJECT NO:	SYSTEM	DESCRIPTION	APPROVED FOR CONSTRUCTION
SHEET NO:	A437 - 2 of 8	NO	NO

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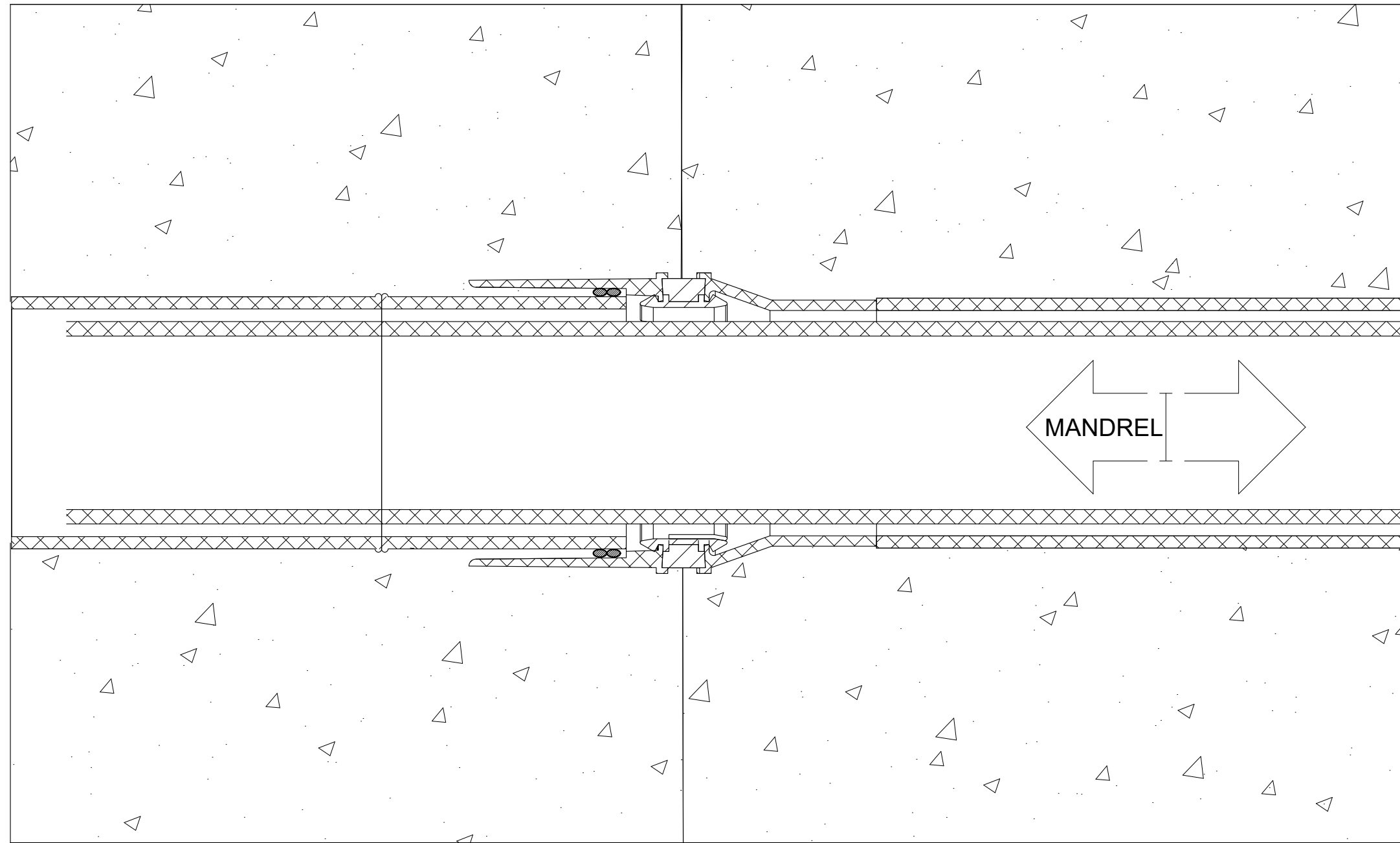




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PRE-CAST SEGMENT

MATCH-CAST FORM



**SEGMENTAL DUCT COUPLER INSTALLATION GUIDE**  
(CONTINUED)

12. ONCE THE MANDREL IS INSERTED, THE SPIDER CLIP HAS LOCKED THE TWO HUBS TOGETHER, AND THE MATCH-CAST SEGMENT CAN BE POURED.

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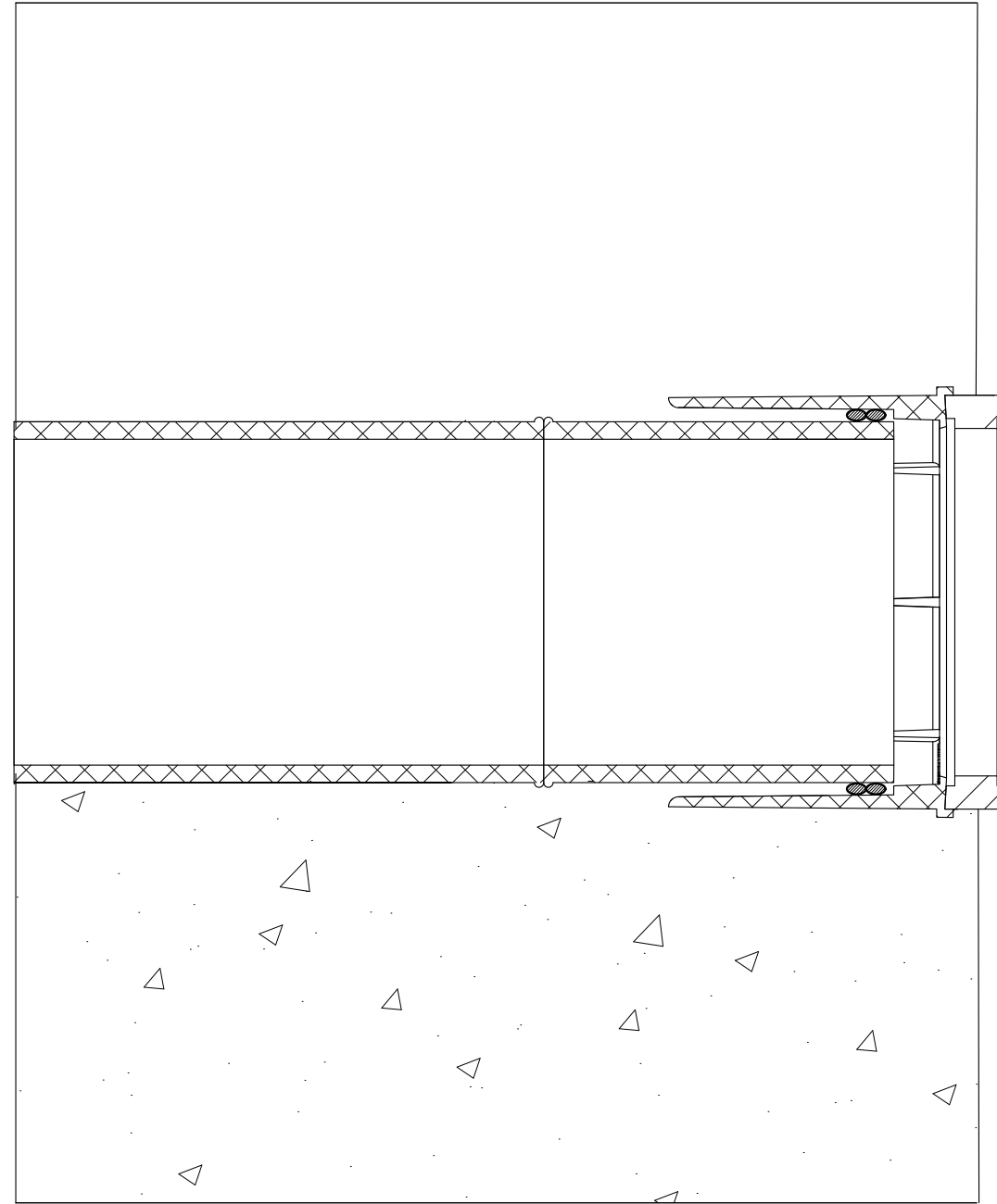
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PROJECT INFORMATION:		CDL	ZX	29JAN2020
SYSTEM DRAWING		APPROVED FOR CONSTRUCTION	BY	CHK
TITLE:		NO	DESCRIPTION	DATE
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE				
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:	A437 - 5 of 8			

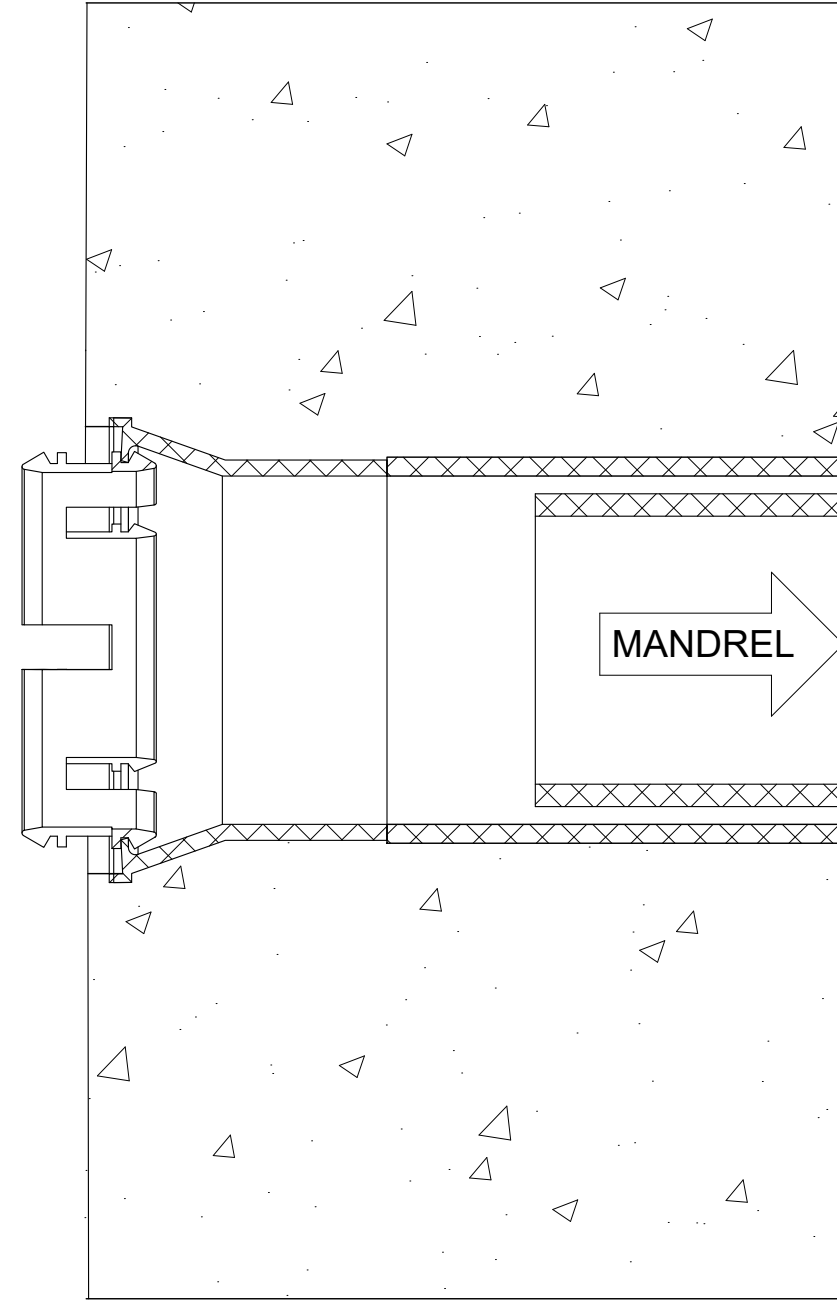
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 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

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PRE-CAST SEGMENT



MATCH-CAST FORM



NOTE: FAILURE TO REMOVE MANDREL RESULTS IN SEVERE SPALLING OF BOTTOM SLABS

**SEGMENTAL DUCT COUPLER INSTALLATION GUIDE (CONTINUED)**

- 13. TO SEPARATE THE MATCH-CAST SEGMENT FROM THE PRE-CAST SEGMENT, DISASSEMBLE THE FORM IN THE FOLLOWING STEPS:
  - 13.1 REMOVE ALL MANDRELS
  - 13.2 SEPARATE SEGMENTS
  - 13.3 REMOVE ALL SPIDER CLIPS. VISUALLY INSPECT. IF THERE ARE NOT SIGNIFICANT CUTS OR TEARS, RETAIN RECESS FORMER, OTHERWISE DISCARD. IF THERE ARE NO BROKEN OR MISSING "FEET", RETAIN SPIDER CLIP, OTHERWISE DISCARD.
  - 13.4 NOTE: THERE IS NO NEED TO REMOVE THE FORM TOOLS FROM THE BULKHEAD. VISUALLY INSPECT THE SPIDER CLIPS AS NOTED ABOVE.
- 14. INSTALL PROTECTIVE CAPS OVER DUCT OPENINGS
  - FOR 76MM, SEE SHEET C663 [INV. #02SC07606]
  - FOR 100MM, SEE SHEET C662 [INV. #02SC10006]
  - FOR 130MM, SEE SHEET C664 [INV. #02SC13006]

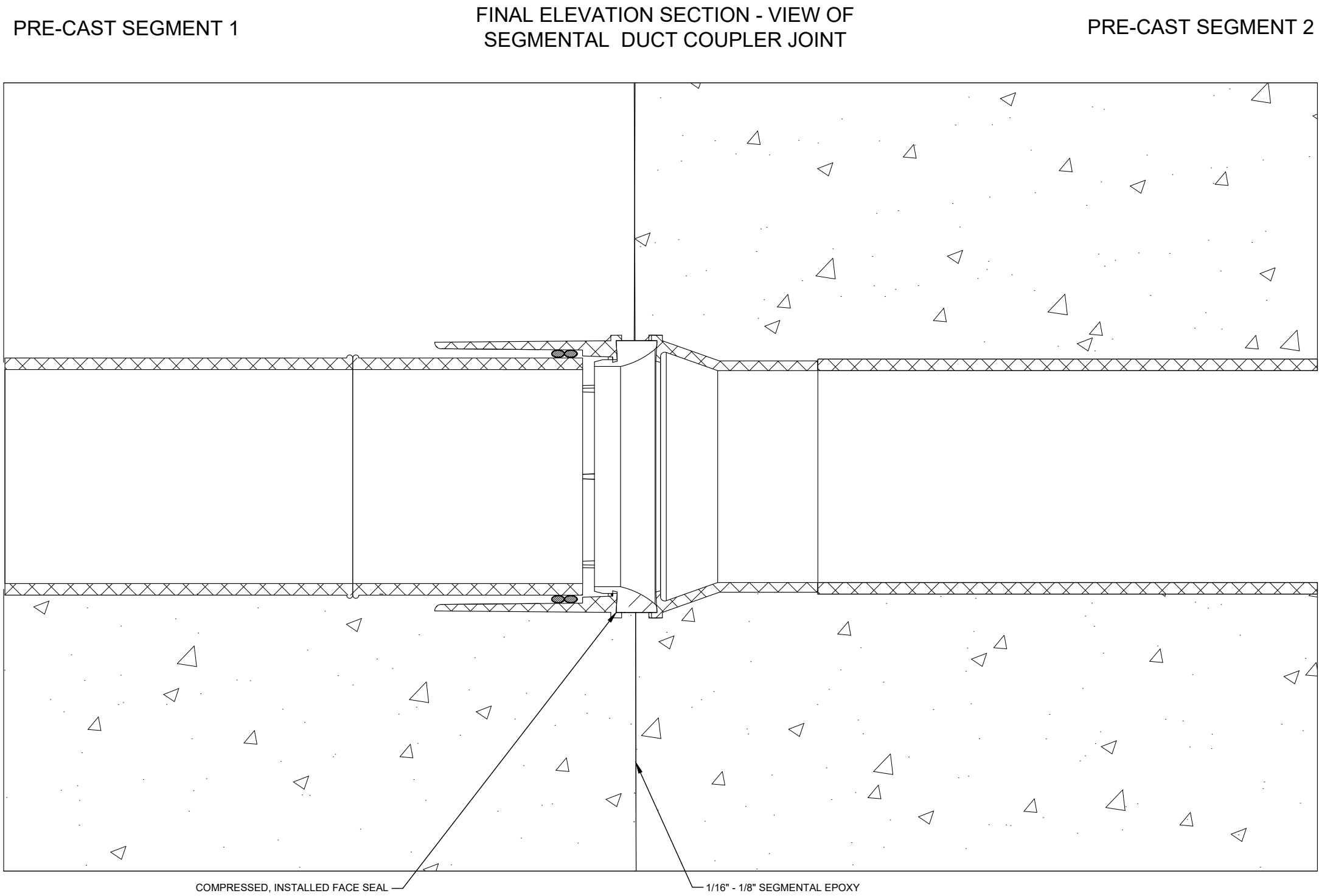
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PROJECT INFORMATION:		APPROVED FOR CONSTRUCTION	CDL	ZX	29JAN2020
SYSTEM DRAWING		DESCRIPTION	BY	CHK	DATE
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		NO			
STRUCTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 DALLAS, TX / WASHINGTON DC / DENVER, CO / POMPAHO BEACH, FL PHONE: (410) 850-7000 structuraltechnologies.com		structuraltechnologies.com			
PROJECT NO: SYSTEM		SCALE: NTS			
SHEET NO: A437 - 6 of 8					



ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

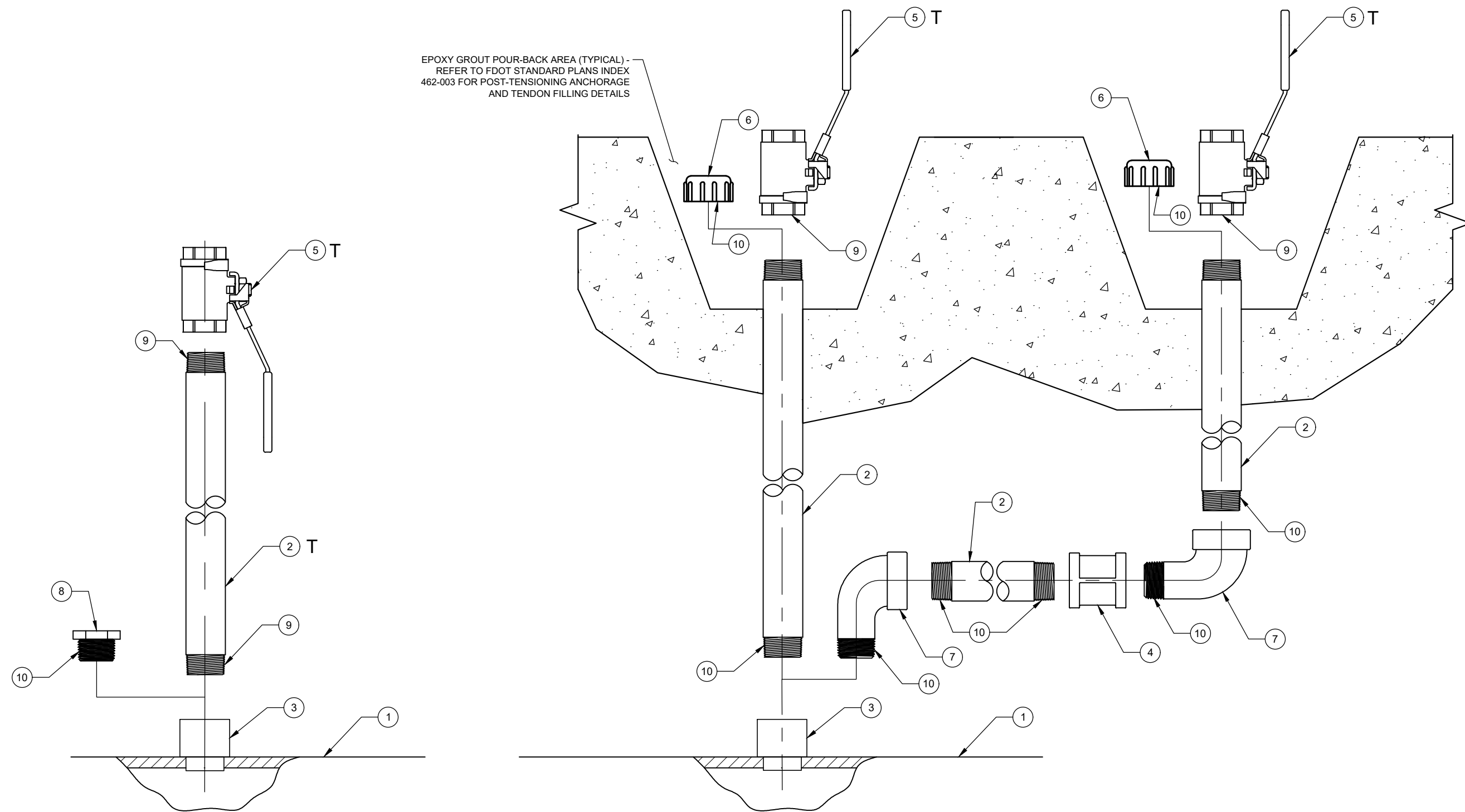


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PROJECT INFORMATION:		APPROVED FOR CONSTRUCTION	CDL ZK	29JAN2020
SYSTEM DRAWING		DESCRIPTION	BY	CHK
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		NO		
<p><b>structural TECHNOLOGIES</b>          Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL          STRUCTURAL TECHNOLOGIES, LLC          CORPORATE OFFICE          10150 OLD COLUMBIA RD          COLUMBIA, MD 21046          PHONE: (410) 850-7000          structuraltechnologies.com</p>				
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:	A437 - 8 of 8			

ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



**EXTERNAL OPTION**

**INTERNAL OPTION**

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

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

1. CLEAN PIPE PRIOR TO GROUT PORT INSTALLATION.
2. DRILL Ø7/8" 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

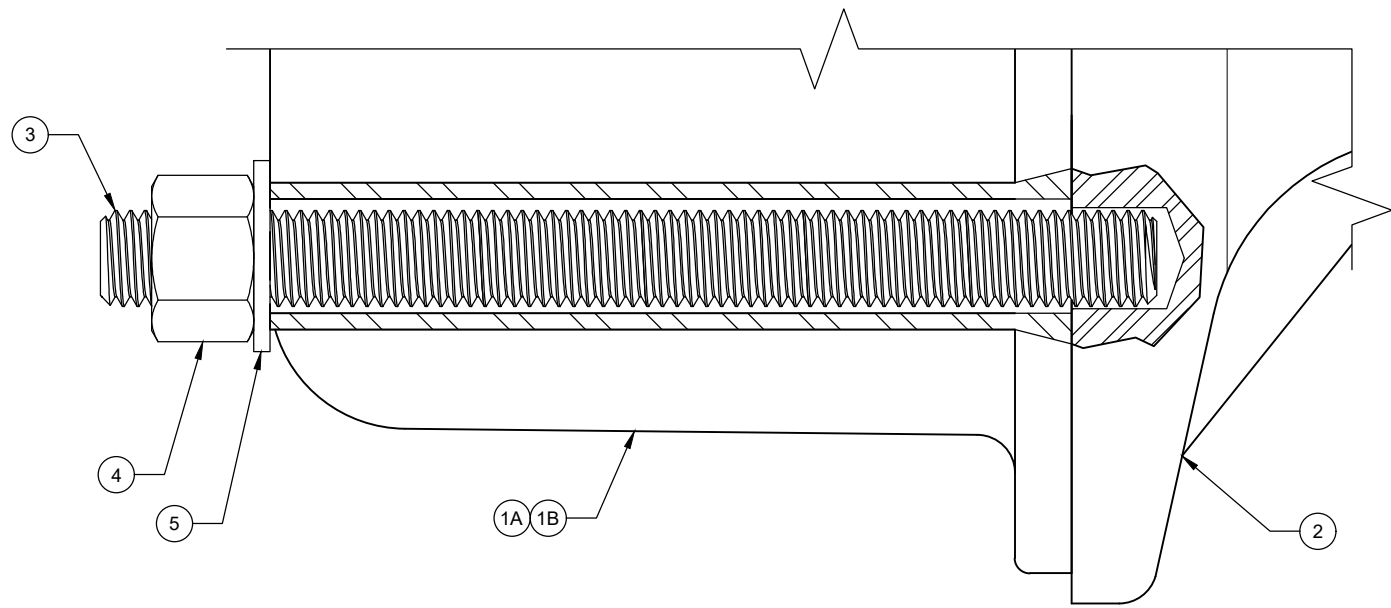
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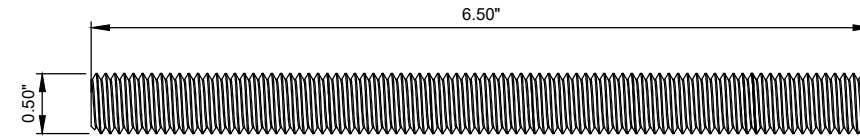
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	DR-17 PIPE (SIZE VARIES)	HDPE BLACK PER ASTM D3350	-	C882A-C
2	1	3/4" NPT STEEL NIPPLE	SCH 40 STEEL	-	C722
3	1	3/4" FNPT SMOOTH GROUT PORT	HDPE YELLOW PER ASTM D3350	02DT0253	C743
4	1	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952	C728
5	1	STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT	SCH 40 STEEL	02DT01925	C745
6	1	RIBBED CAP 3/4" FNPT	BLACK POLYPROPYLENE PER ASTM D4101	02DT01912	C701
7	2	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954	C750
8	1	3/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01913	C787
9	-	SILICONE GREASE	-	-	-
10	-	BONDUIT	-	-	-

<p><b>structural TECHNOLOGIES</b></p> <p style="font-size: small;">Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL          STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD          CORPORATE OFFICE COLUMBIA, MD 21046</p> <p style="font-size: x-small;">PHONE: (410) 850-7000          structuraltechnologies.com</p>	<p><b>PROJECT INFORMATION:</b></p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A439</p> <p>TITLE: FLEXIBLE FILLER INJECTION/VENT CONFIGURATION</p> <p>SCALE: NTS</p>
<p>APPROVED FOR CONSTRUCTION</p>	<p>DESCRIPTION</p>
<p>NO</p>	<p>BY</p>
<p>CDL ZX</p>	<p>CHK</p>
<p>29JAN2020</p>	<p>DATE</p>

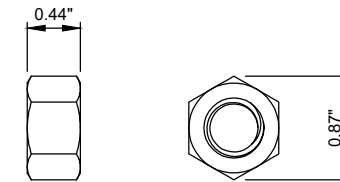
ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



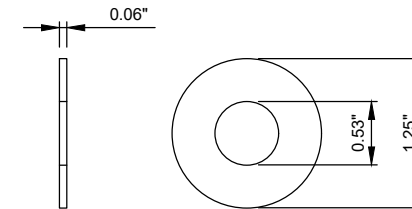
**CAP TO BEARING PLATE BOLTED ASSEMBLY**



**3 1/2\"/>**



**4 1/2\"/>**



**5 1/2\"/>**

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" NPT HORIZ. PORT	ABS PER ASTM D4673	02GC61202	C548
1B	1	ECI 6-12 ANCHORAGE CAP W/ 1/4" NPT VERT. PORT	ABS PER ASTM D4673	02GC61203	C739
2	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	IRON GR80-55-06 PER ASTM A536	02BP0037V	C737
3	1 SET	1/2"-13 THREADED ROD X 6 1/2"	(316L) STAINLESS PER ASTM F593	02WX5021D	A442
4	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5021D	A442
5	1 SET	1/2" WASHER	(316L) STAINLESS PER ASTM A240	02WX5021D	A442

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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-12 BOLT ASSEMBLY FLEX FILLER

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

A442

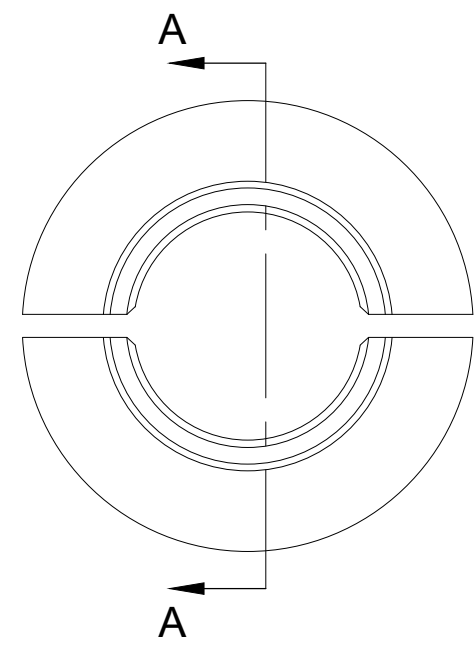
**structural TECHNOLOGIES**

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

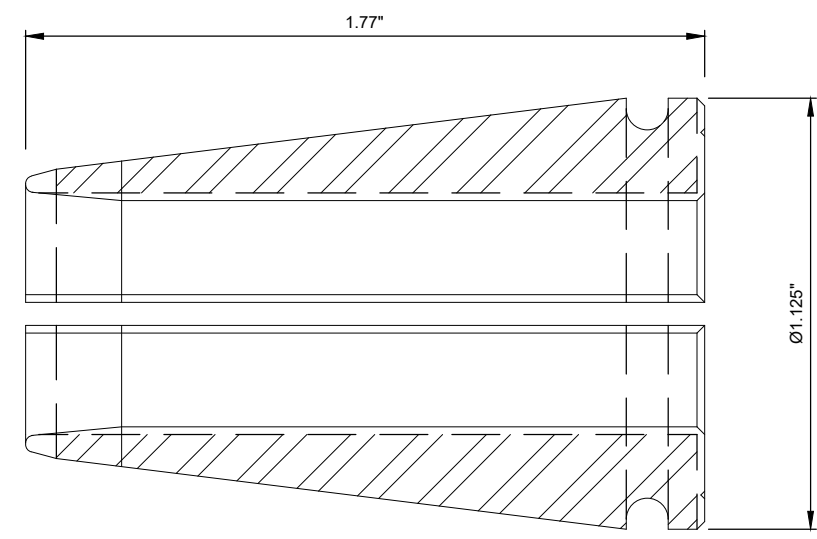
APPROVED FOR CONSTRUCTION  
 NO  
 DESCRIPTION

CDL ZX 29JAN2020  
 BY CHK DATE

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Strand



**0.6" DIA. MULTIWEDGES  
TYPE 1.6G**



**SECTION A-A**

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DESCRIPTION	MATERIAL	INVENTORY #
0.6" MULTIWEDGE TYPE 1.6G	AISI 11-L-17/12L14 PER ASTM A108, PRODUCED IN STRICT ACCORDANCE WITH VSL MS 3.1.006, CASE HARDENED	02WG0008

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	0.6" MULTIWEDGE TYPE 1.6G
SHEET NO:	C218
SCALE:	NTS

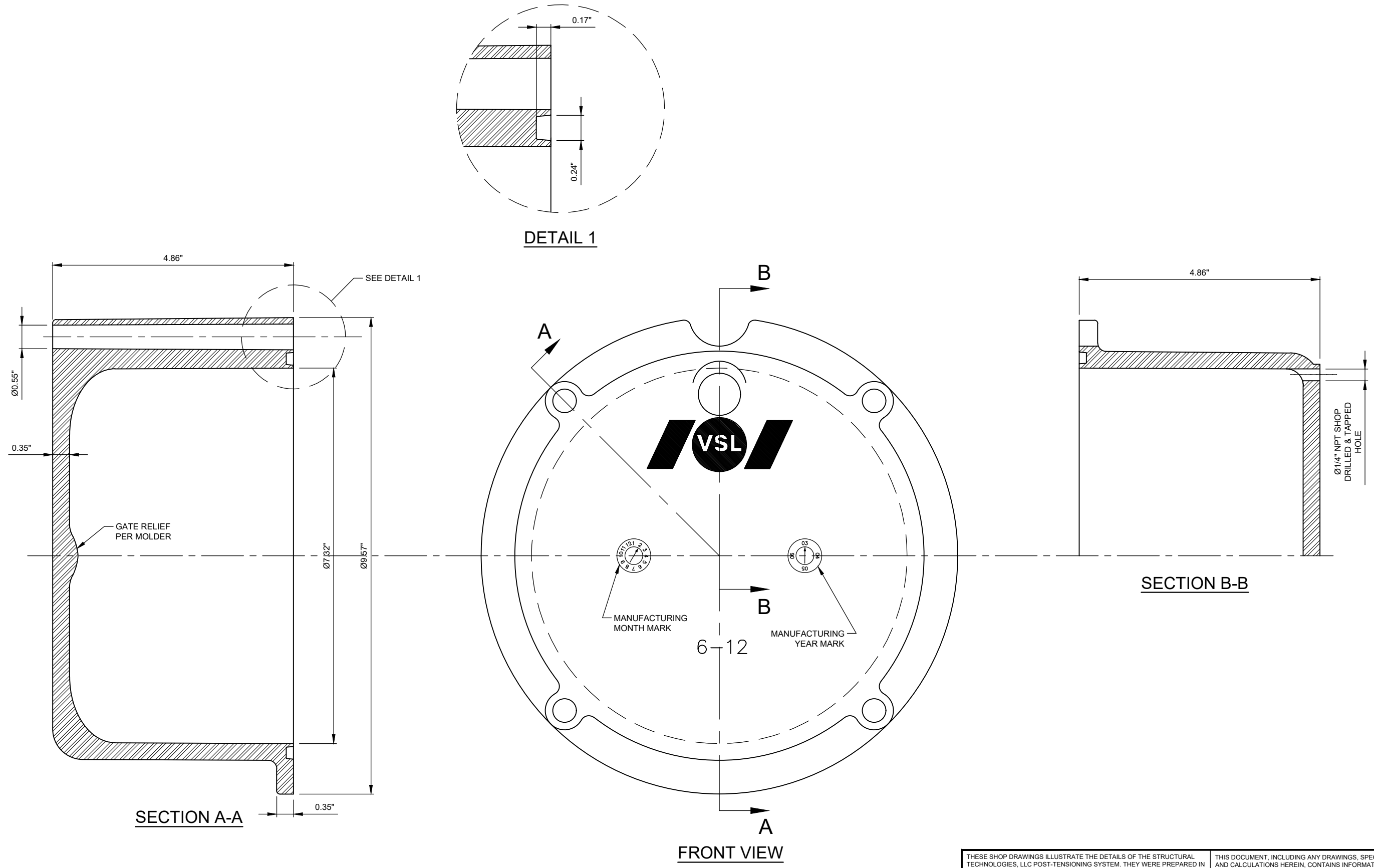
**structural  
TECHNOLOGIES**

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046

PHONE: (410) 850-7000  
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-12 ANCHORAGE CAP W/ 1/4" HORIZONTAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61202

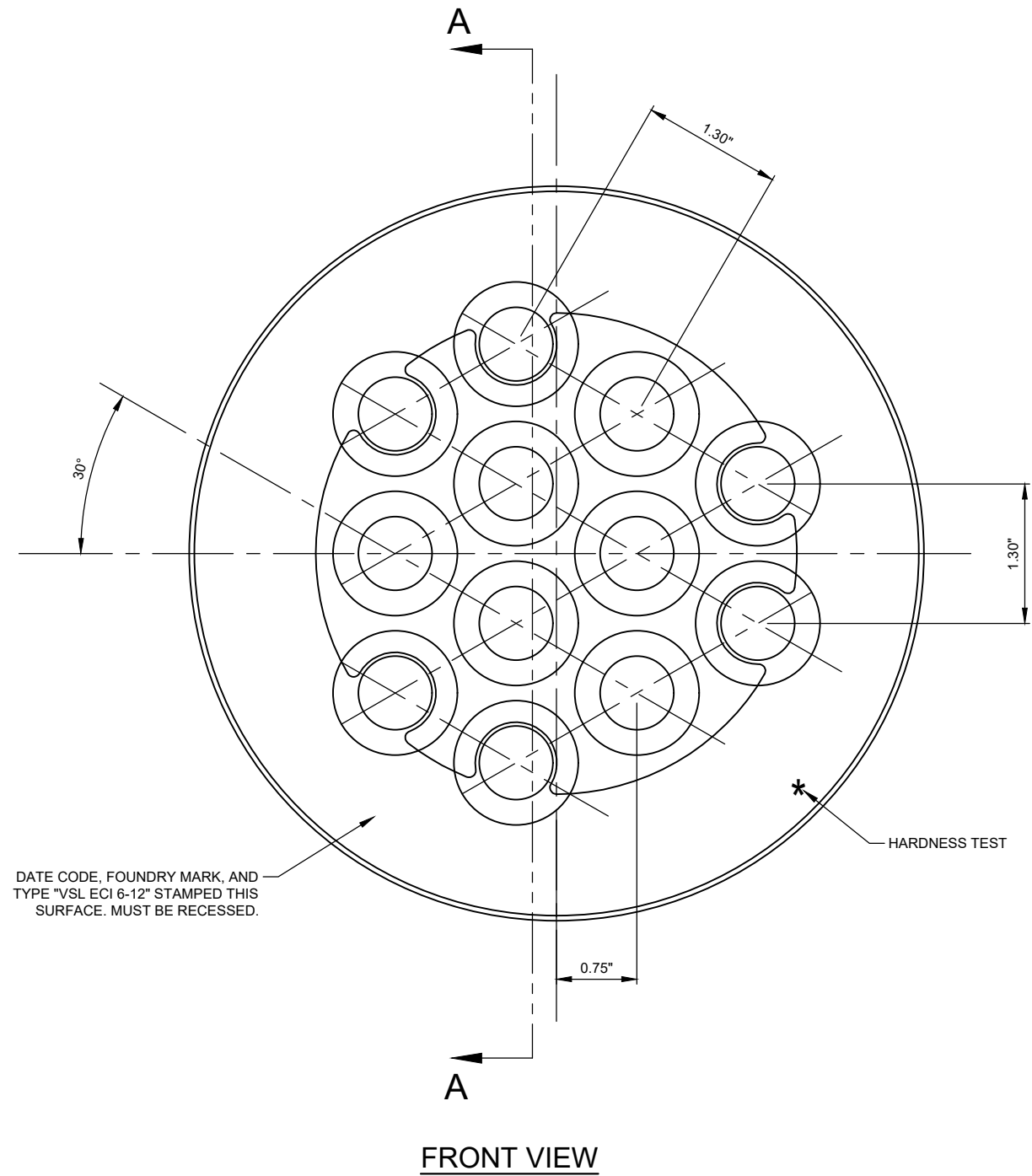
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<b>structural TECHNOLOGIES</b> Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 860-7000 structuraltechnologies.com		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		DESCRIPTION	BY	CHK
PROJECT INFORMATION: <b>SYSTEM DRAWING</b>		NO		
TITLE: <b>ECI 6-12 ANCHORAGE CAP W/ 1/4" NPT HORIZ. PORT</b>				
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:				<b>C548</b>

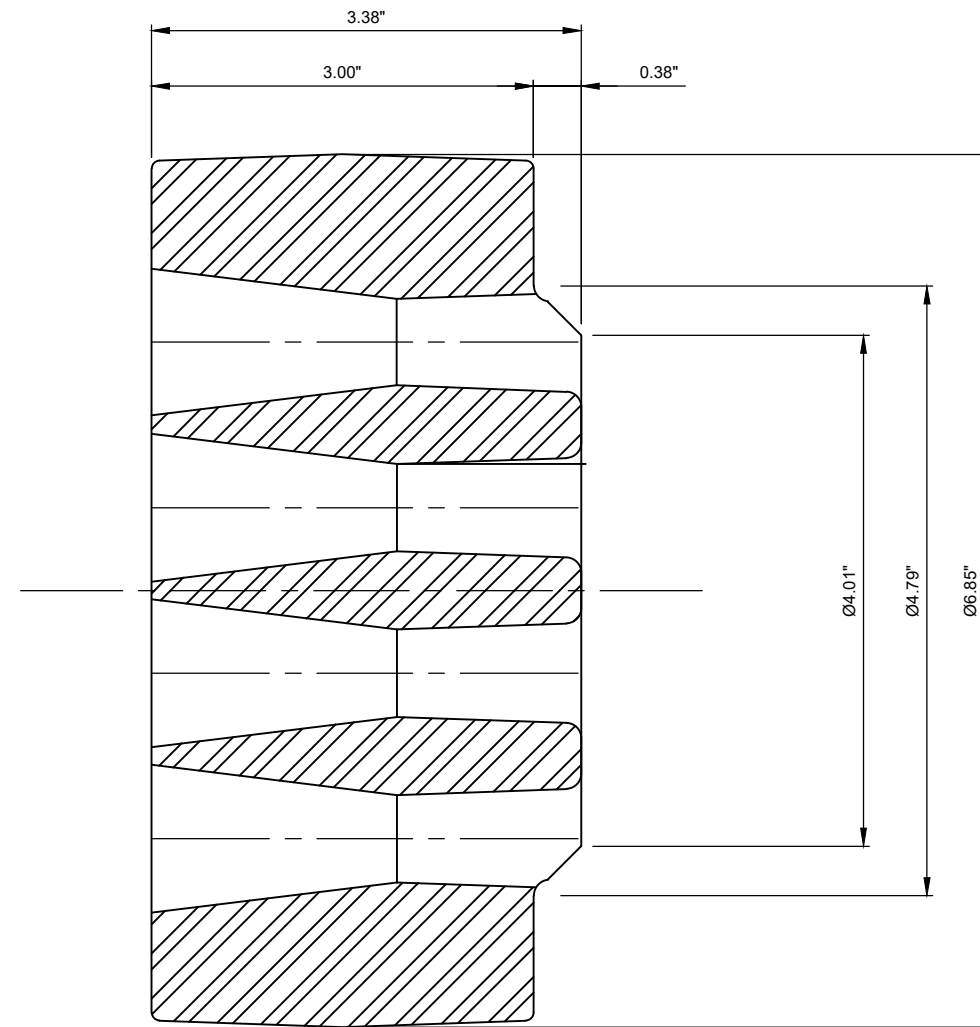


ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



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**FRONT VIEW**



**SECTION A-A**

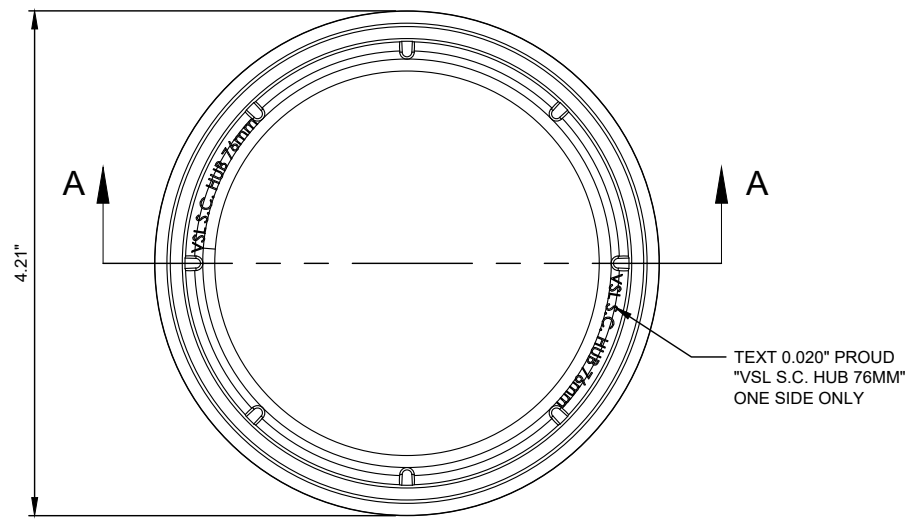
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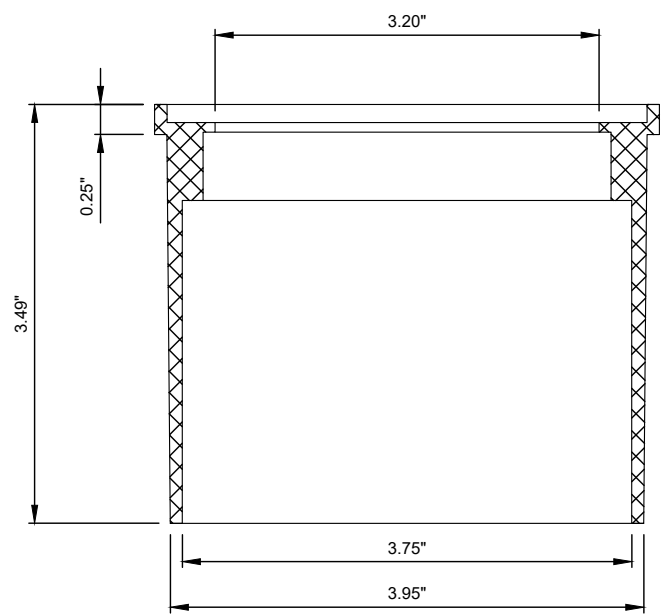
DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-12 ANCHOR HEAD	IRON GR 80-55-06 PER ASTM A536	02AH0037

PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	SYSTEM	ECI 6-12 ANCHOR HEAD	
SHEET NO:	NTS	C556	
<p><b>structural TECHNOLOGIES</b>                  Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL                  STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046                  PHONE: (410) 850-7000                  structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	DESCRIPTION
NO	NO	CDL	ZX
		BY	CHK
			DATE
			29JAN2020

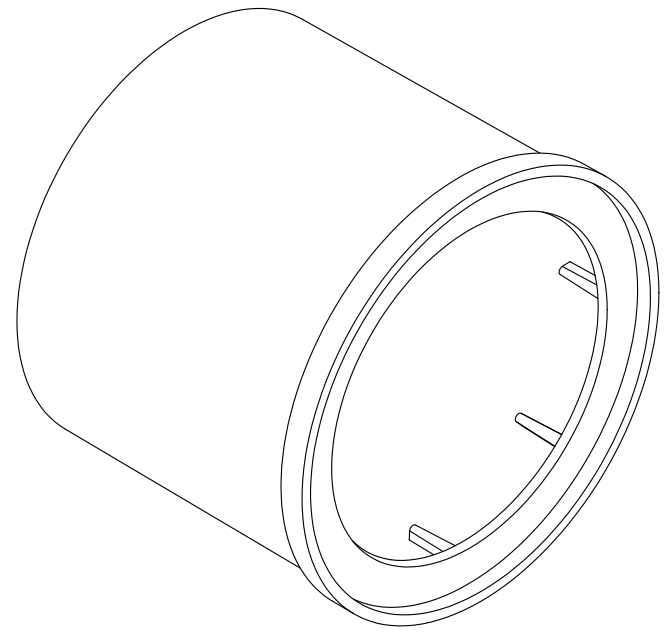
ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



**TOP VIEW**



**SECTION A-A**



**3D VIEW**

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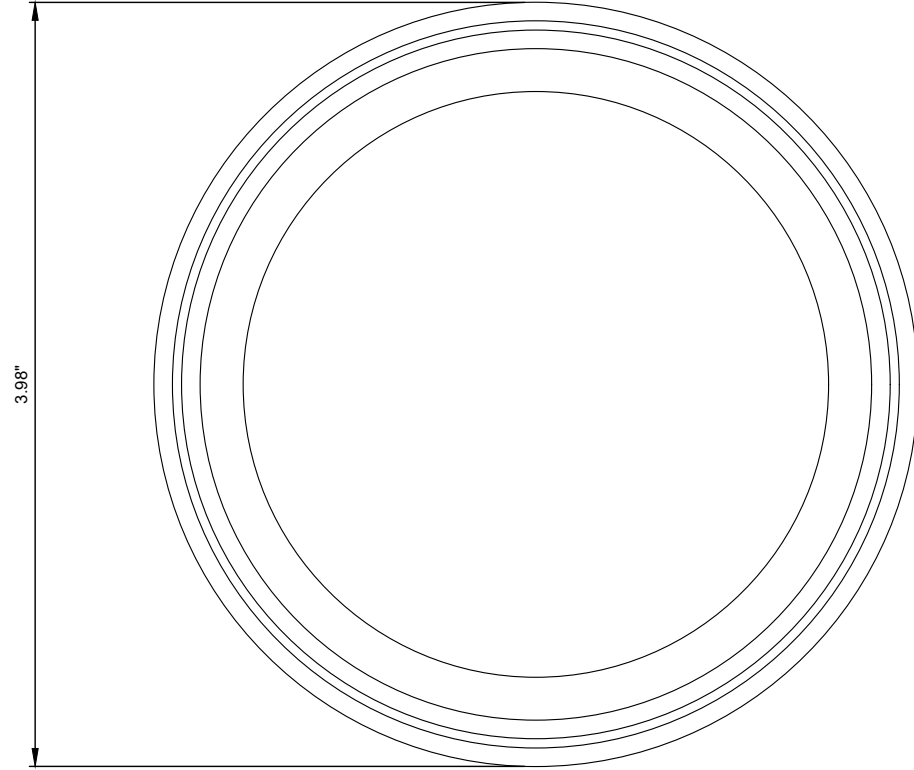
DESCRIPTION	MATERIAL	INVENTORY #
76MM HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC07601

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	DATE

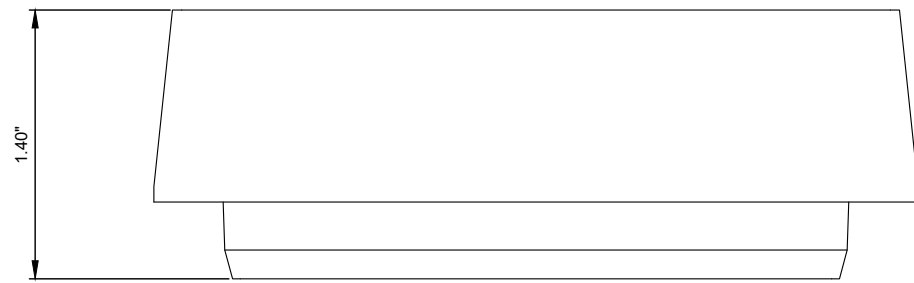
**structural TECHNOLOGIES**  
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	76MM HUB
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	<b>C646</b>

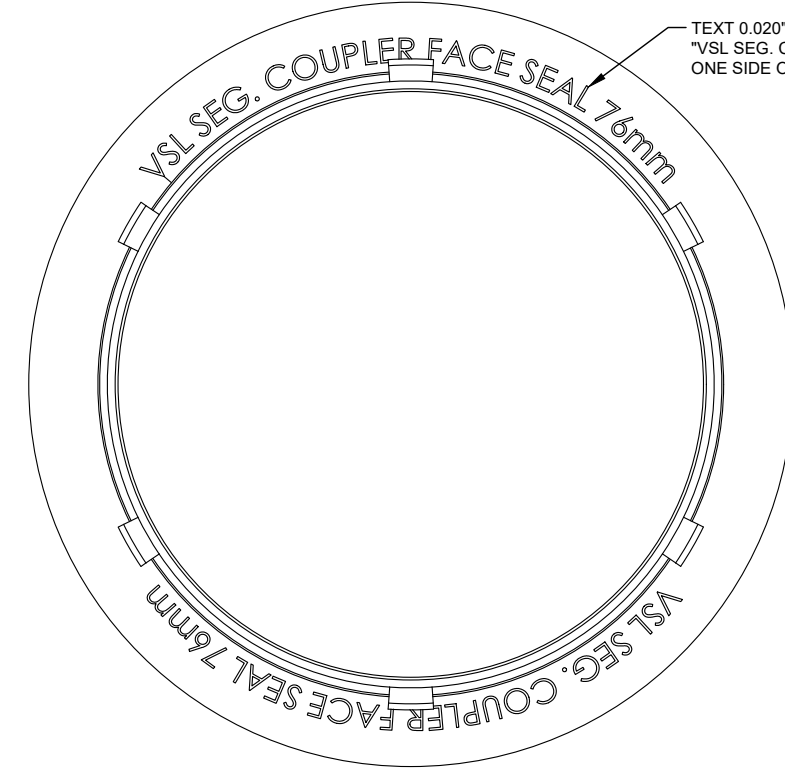
ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



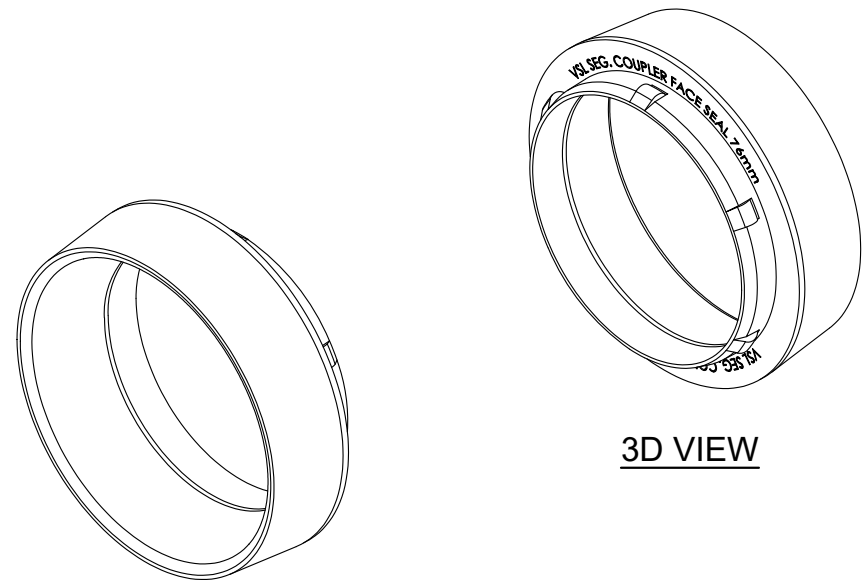
TOP VIEW



SIDE VIEW



BOTTOM VIEW



3D VIEW

3D VIEW

TEXT 0.020" RECESSED  
"VSL SEG. COUPLER FACE SEAL 76MM"  
ONE SIDE ONLY

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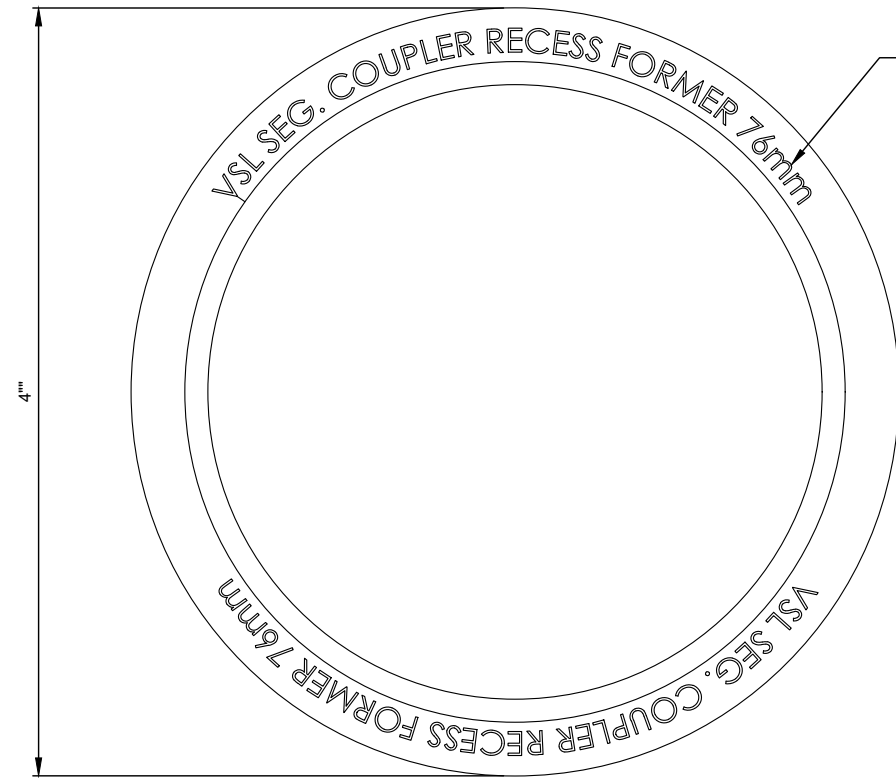
DESCRIPTION	MATERIAL	INVENTORY #
76MM FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC07603

NO	APPROVED FOR CONSTRUCTION	CDL ZK	29JAN2020
NO	DESCRIPTION	BY	DATE

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 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING	TITLE:	76MM FACE SEAL
PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:			<b>C648</b>

ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

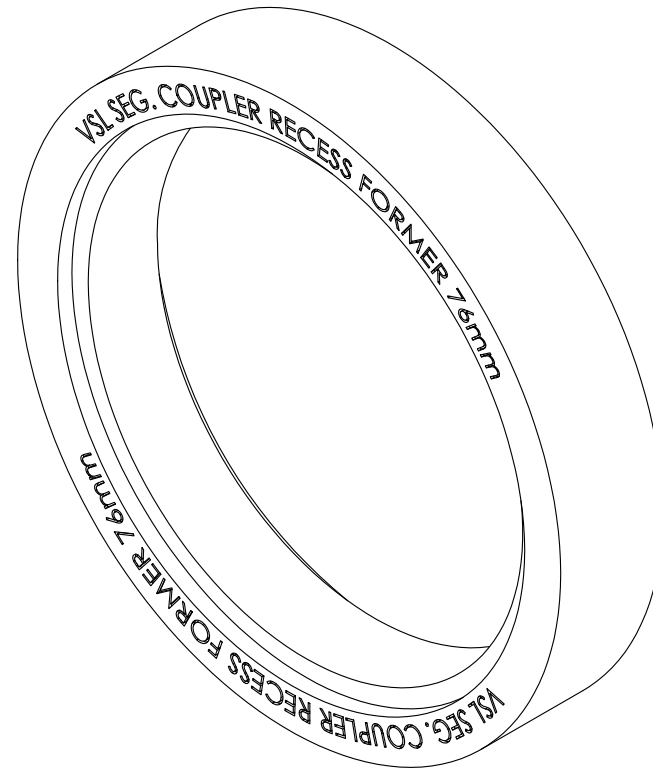


TOP VIEW

TEXT 0.020" PROUD  
"VSL SEG. COUPLER RECESS FORMER 76MM"  
ONE SIDE ONLY



SIDE VIEW



3D VIEW

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NOTE: THIS IS A TEMPORARY PART.

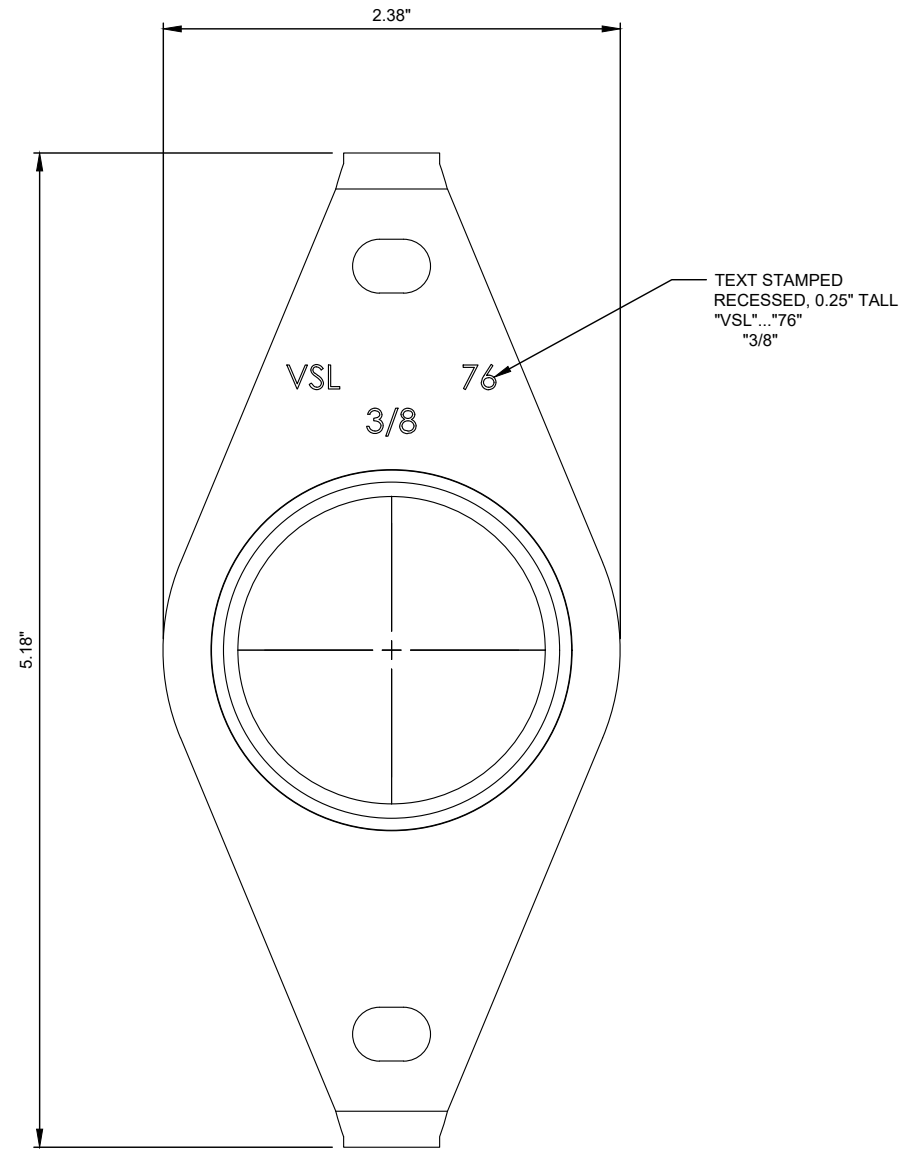
DESCRIPTION	MATERIAL	INVENTORY #
76MM RECESS FORMER	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC07607

APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO		DATE

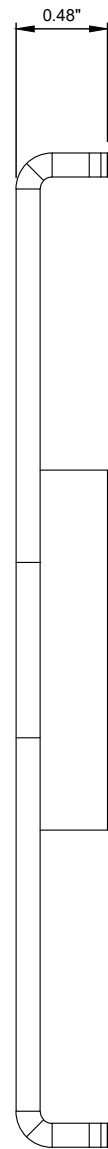
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 PHONE: (410) 850-7000  
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PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	76MM RECESS FORMER
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	<b>C649</b>

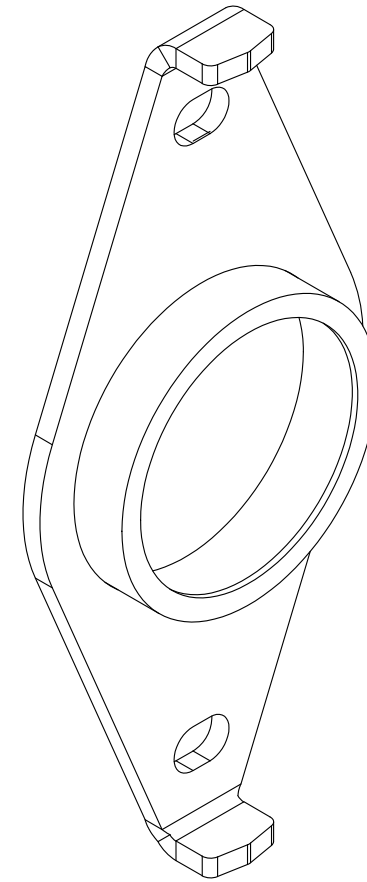
ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



**FRONT VIEW**



**SIDE VIEW**



**3D VIEW**

TEXT STAMPED  
RECESSED, 0.25" TALL  
"VSL"...76"  
"3/8"

VSL  
3/8  
76

NOTE: THIS IS A TEMPORARY PART.

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DESCRIPTION	MATERIAL	INVENTORY #
76MM FORM TOOL	STEEL PER ASTM A36	02SC07605

PROJECT INFORMATION:

SYSTEM DRAWING

76MM FORM TOOL

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C651

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CHK

CDL ZX

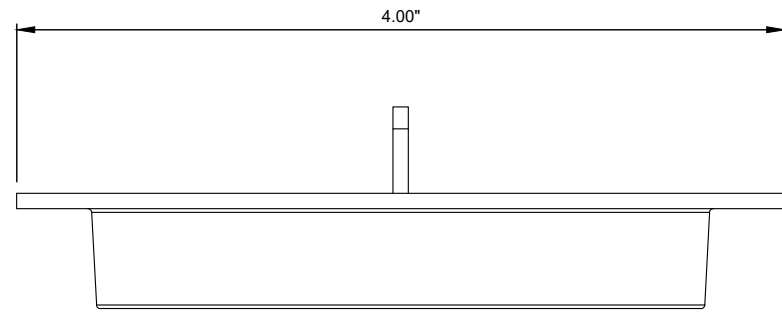
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29JAN2020

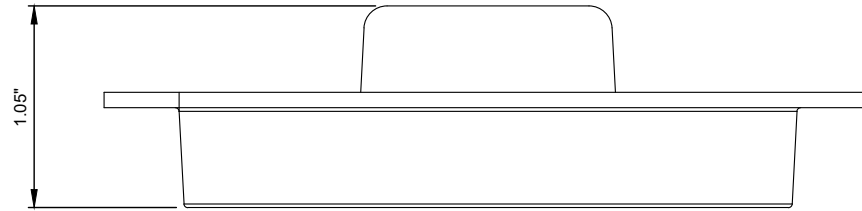
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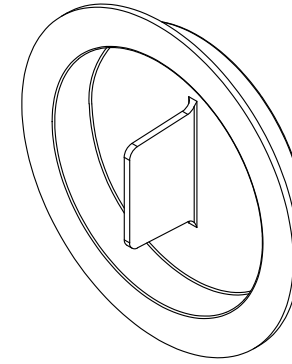
ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT\_Test 2017\Segmental Duct Coupler



FRONT VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

DESCRIPTION	MATERIAL	INVENTORY #
76MM PROTECTIVE CAP	LDPE	02SC07606

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PROJECT INFORMATION:

SYSTEM DRAWING

76MM PROTECTIVE CAP

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C663

NO

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

BY

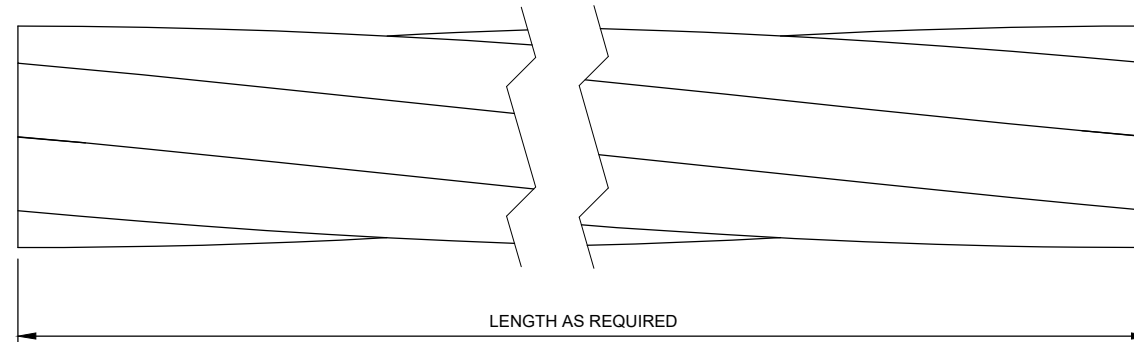
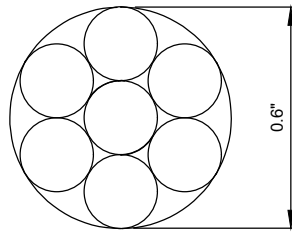
CHK

DATE

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 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
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ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT\_Test 2017\Strand



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DESCRIPTION	MATERIAL	INVENTORY #
VSL POST TENSIONING 0.6" BARE STRAND	LOW-RELAXATION STEEL, SEVEN WIRE STRAND PER ASTM A416, 270KSI	VA02SD0013

PROJECT INFORMATION:

SYSTEM DRAWING

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

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C674

NO

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CDL ZX

BY

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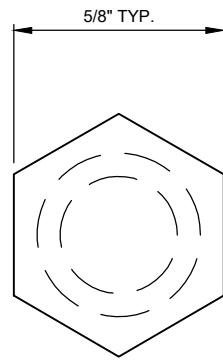
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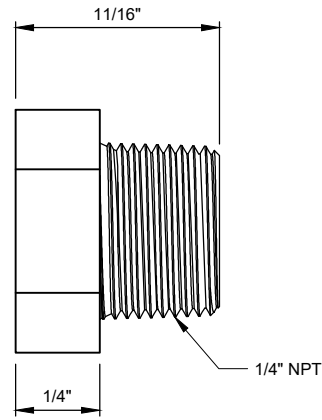
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



**FRONT VIEW**



**SIDE VIEW**

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919

PROJECT INFORMATION:

SYSTEM DRAWING

1/4" NPT PE PLUG

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C693

NO

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

DATE

BY

CHK

DESCRIPTION

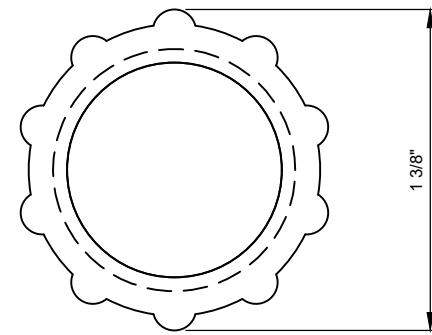
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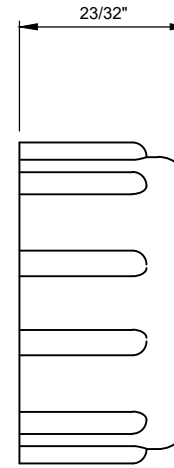
PHONE: (410) 850-7000  
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ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT\_Test 2017\Grouting Accessories



TOP VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
RIBBED CAP W/ 3/4" FNPT	BLACK POLYPROPYLENE PER ASTM D4101	02DT01912

PROJECT INFORMATION:

SYSTEM DRAWING

RIBBED CAP W/ 3/4" FNPT

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C701

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

DATE

29JAN2020

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

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APPROVED FOR CONSTRUCTION

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29JAN2020

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APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

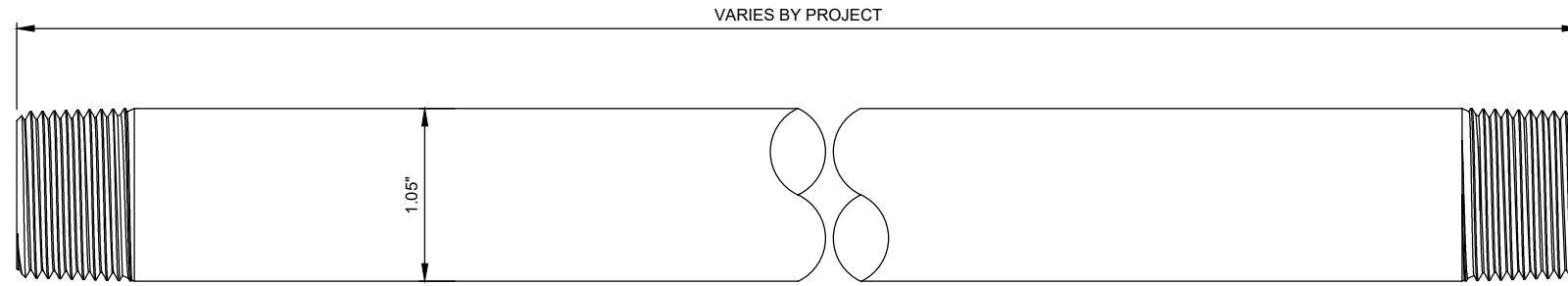
DESCRIPTION

DATE

29JAN2020

NO

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



**SIDE VIEW**

DESCRIPTION	MATERIAL	INVENTORY #
3/4" NPT NIPPLE	SCH 40 STEEL	-

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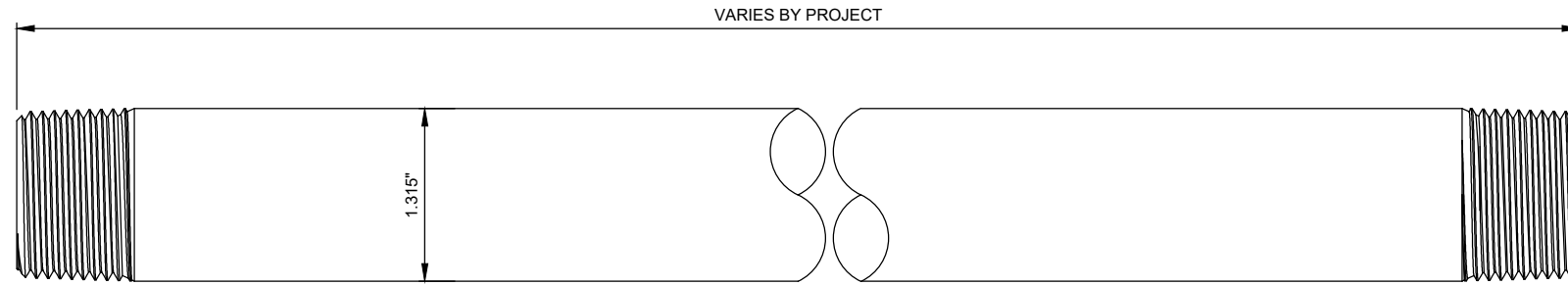
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	C722
TITLE:	3/4" NPT STEEL NIPPLE

**structural TECHNOLOGIES**  
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT STEEL NIPPLE	SCH 40 STEEL	-

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
<b>C725</b>	

SYSTEM DRAWING

1" NPT STEEL NIPPLE

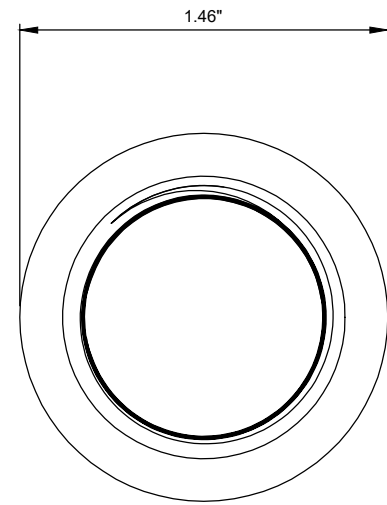
**structural TECHNOLOGIES**

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 CORPORATE OFFICE    COLUMBIA, MD 21046

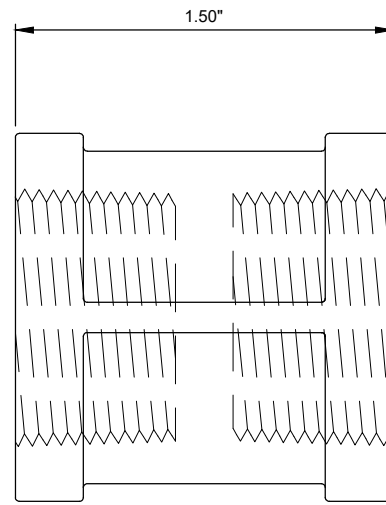
PHONE: (410) 850-7000  
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

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

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" NPT F/F COUPLER

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C728

NO

APPROVED FOR CONSTRUCTION

CDL ZX

DESCRIPTION

BY

CHK

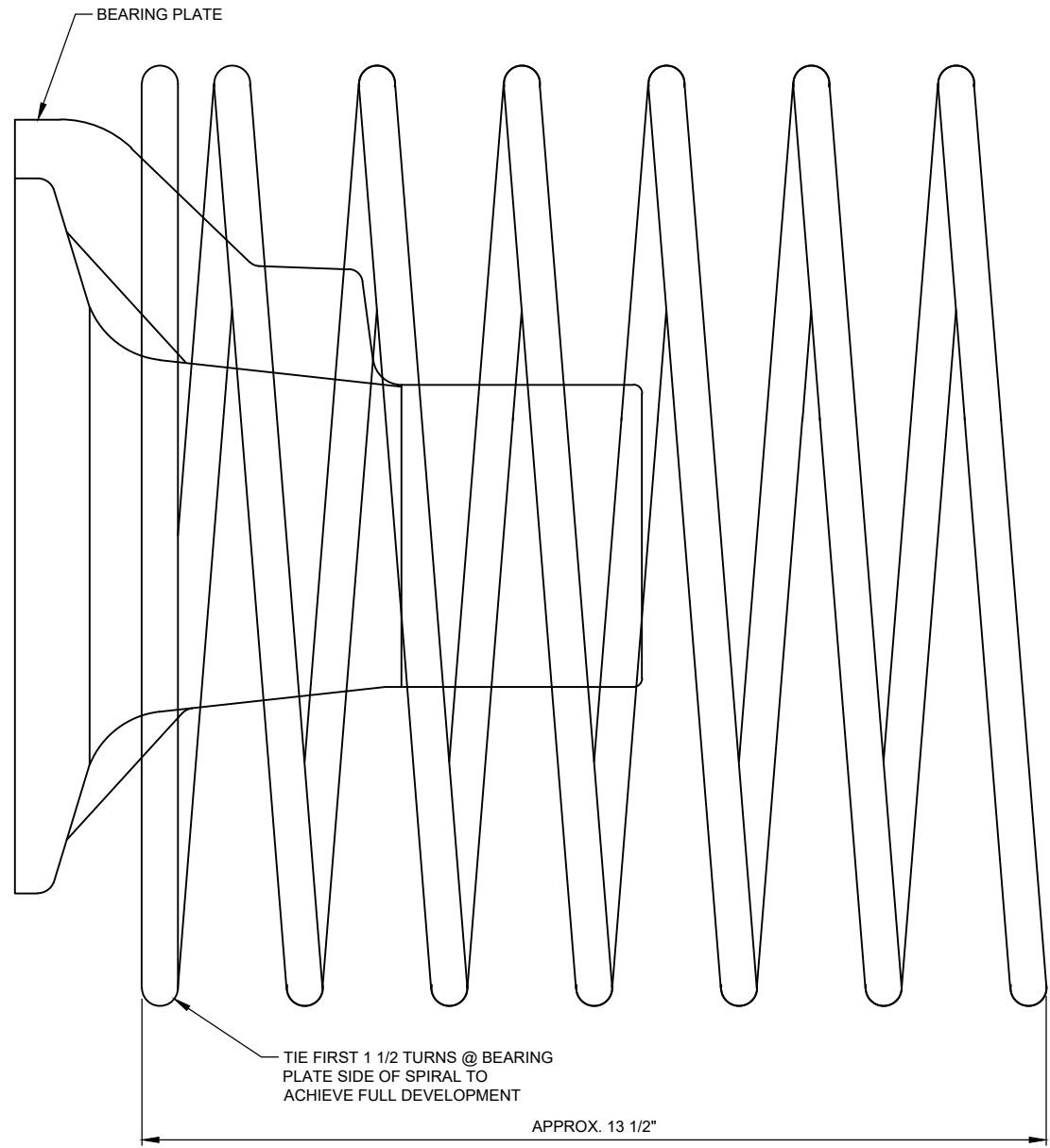
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29JAN2020

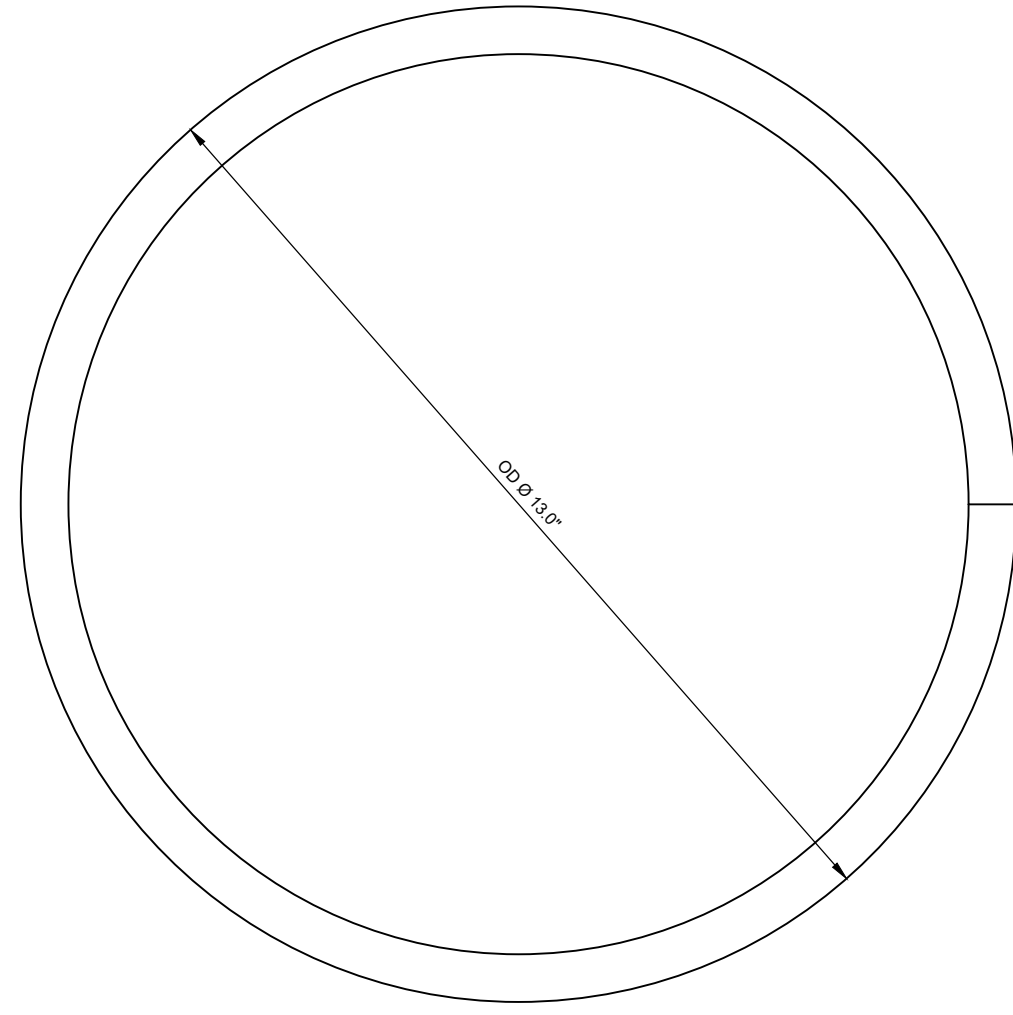
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 CORPORATE OFFICE COLUMBIA, MD 21046  
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ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT\_Test 2017\ECI 6-12 Flexible Filler Submittal



**SIDE VIEW**



**FRONT VIEW**

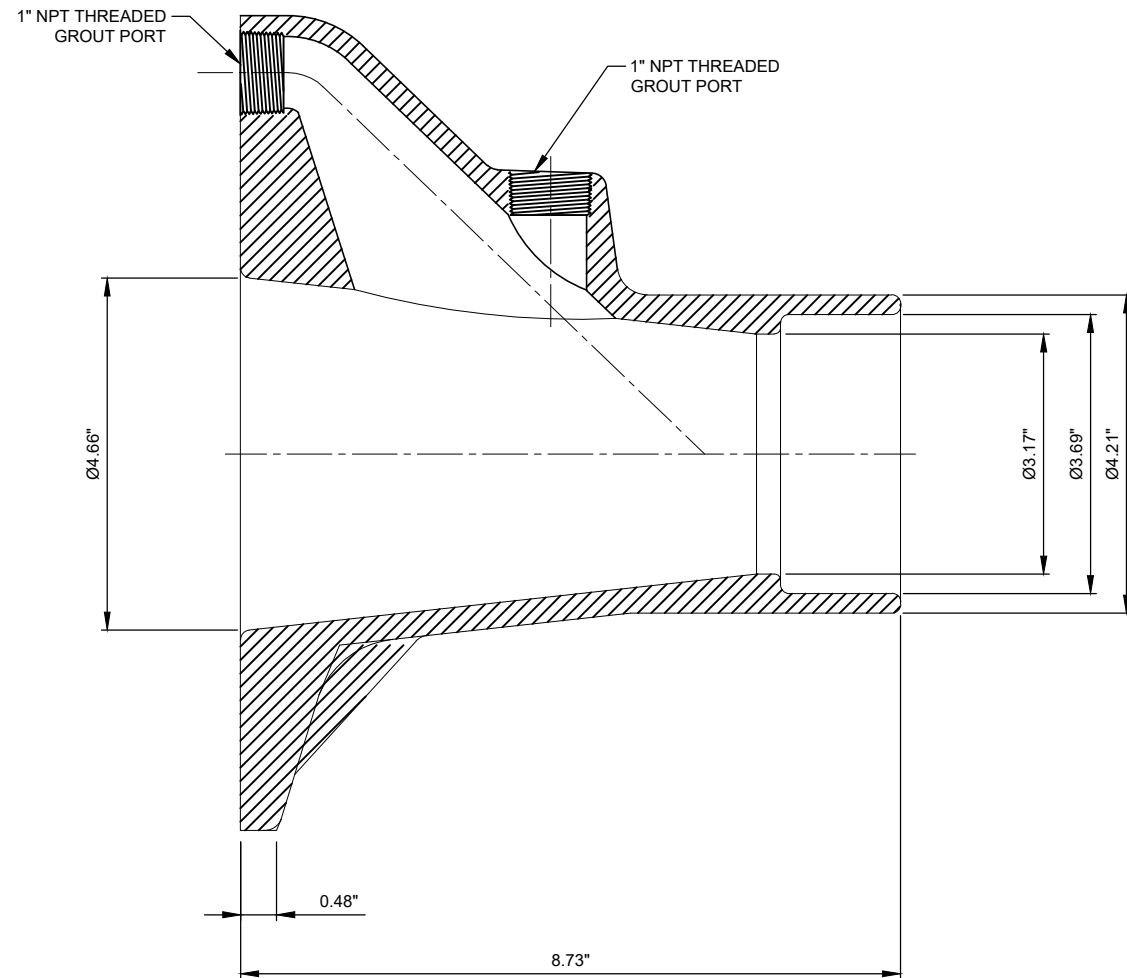
- NOTE:
1. THESE SPIRALS ARE TO BE IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND CONTRACT DRAWINGS
  2. CONCRETE STRENGTH SHOWN IN SPIRAL NAME AS #XXXX WHERE # = PSI

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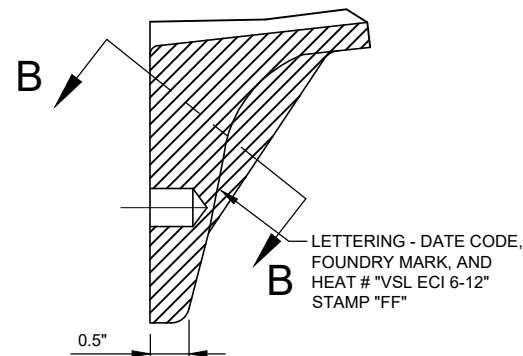
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-12 SPIRAL #3500 (#5, DIA. 13", 2" PITCH, 7 TURNS)	GR 60 STEEL AS PER ASTM A615	02BP0096
ECI 6-12 SPIRAL #5500 (#4, DIA. 13", 2" PITCH, 7 TURNS)	GR 60 STEEL AS PER ASTM A615	02BP0097

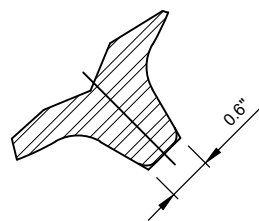
<p><b>structural TECHNOLOGIES</b></p> <p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL</p> <p>STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046</p> <p>PHONE: (410) 860-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p> <p><b>SYSTEM DRAWING</b></p> <p><b>ECI 6-12 SPIRAL</b></p>		NO		
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:				<b>C729</b>



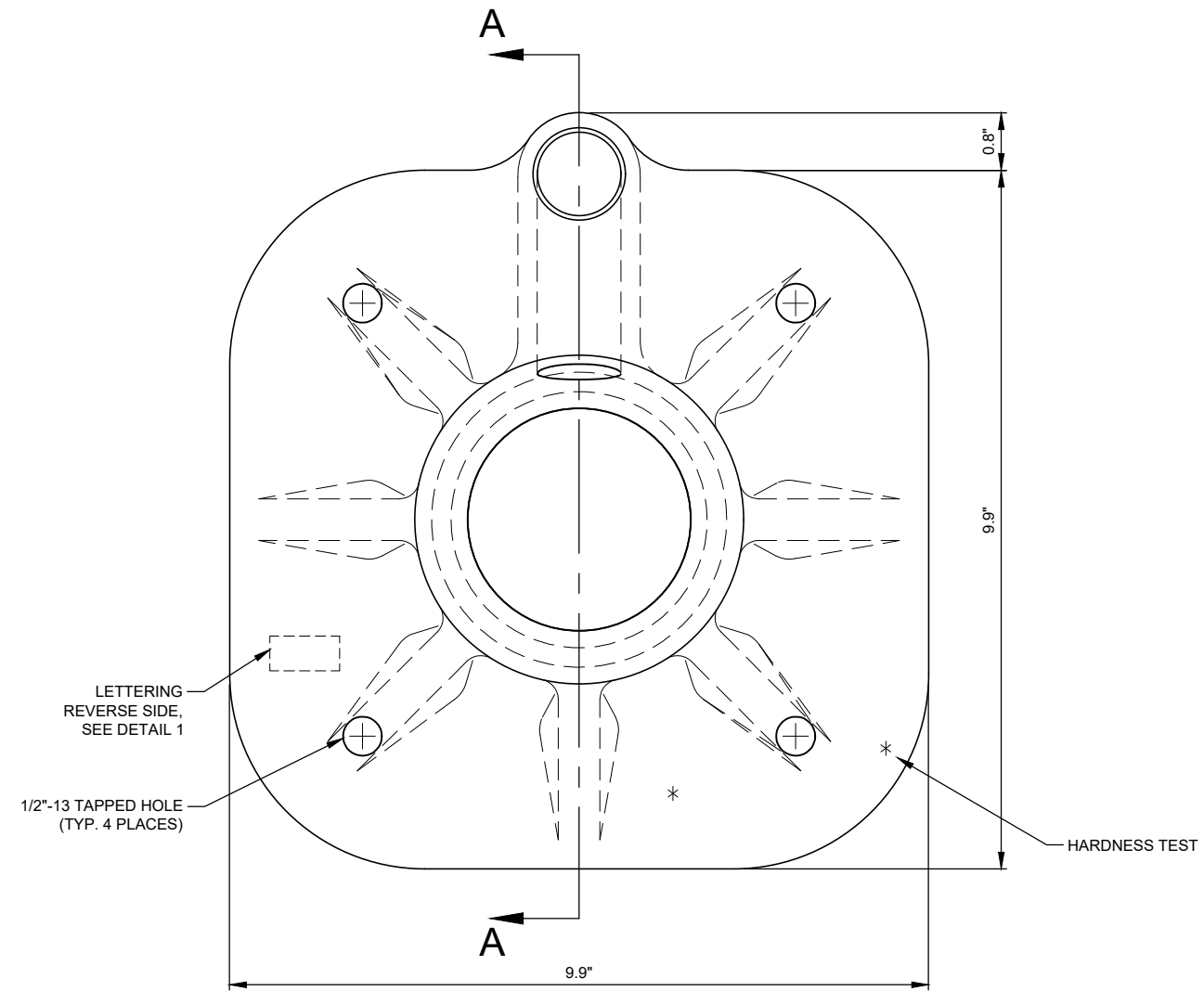
SECTION A-A



DETAIL 1



SECTION B-B



BACK VIEW

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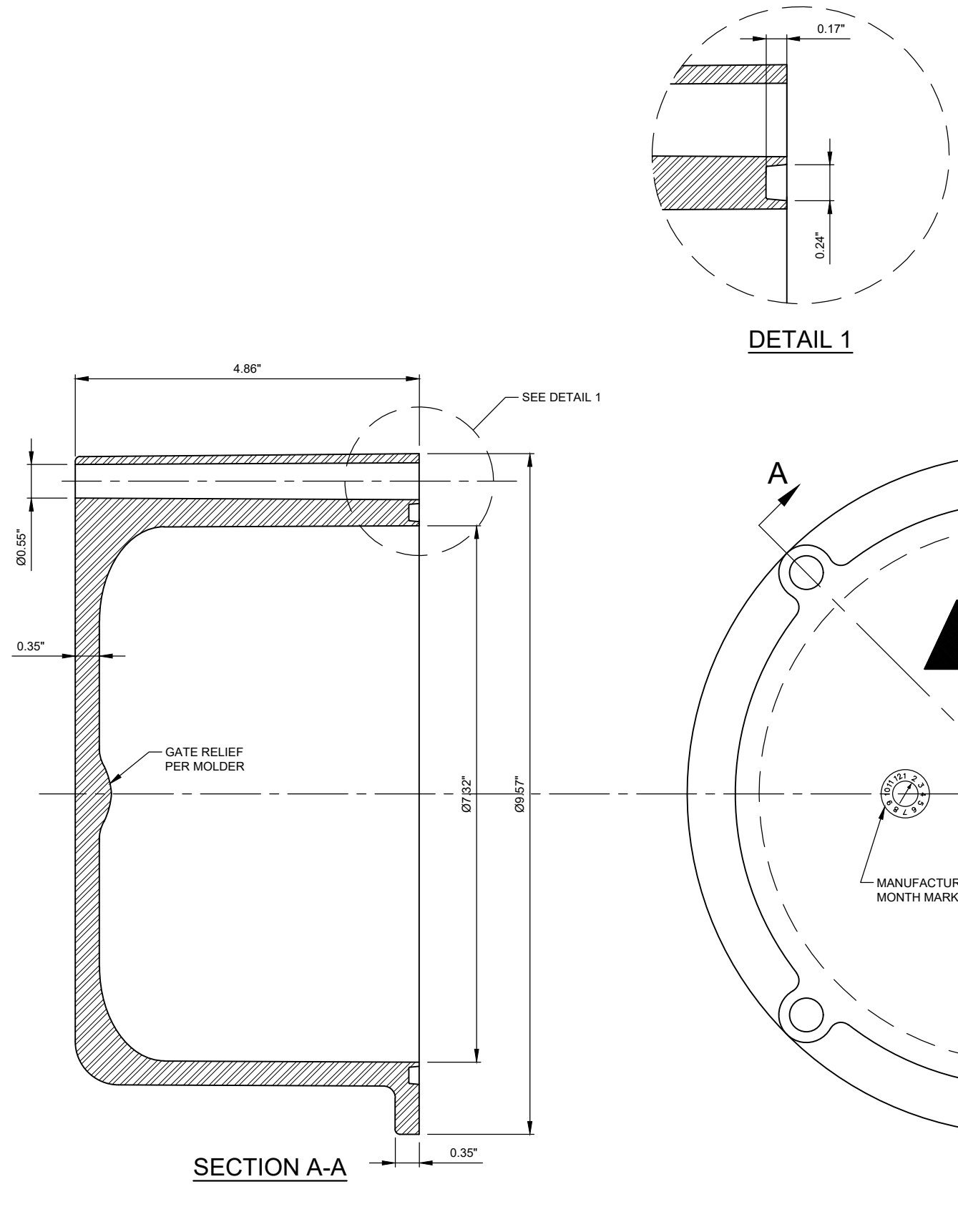
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-12 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0037V

<p><b>structural TECHNOLOGIES</b></p> <p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL</p> <p>10150 OLD COLUMBIA RD COLUMBIA, MD 21046</p> <p>PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	18FEB2020
		DESCRIPTION	BY	DATE
PROJECT INFORMATION:	SYSTEM DRAWING	ECI 6-12 BEARING PLATE W/ 1" NPT PORT	NO	NO
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:				C737

ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal

ELECTRONIC FILE LOCATION: I:\VSL\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



FRONT VIEW

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PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	C739
TITLE:	ECI 6-12 ANCHORAGE CAP W/ 1/4" VERTICAL PORT
SCALE:	NTS

SYSTEM DRAWING

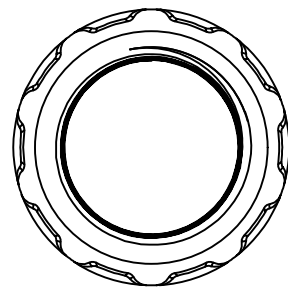
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 10150 OLD COLUMBIA RD  
 COLUMBIA, MD 21046  
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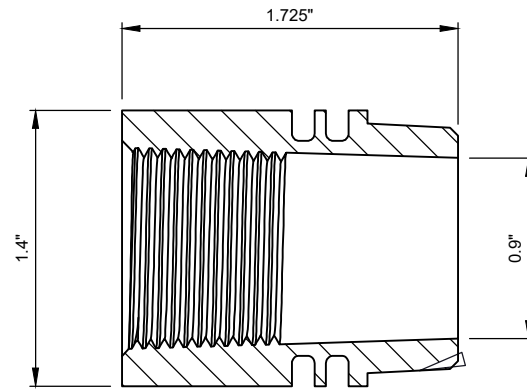
APPROVED FOR CONSTRUCTION	NO
DESCRIPTION	
BY	CDL ZX
CHK	
DATE	29JAN2020

DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-12 ANCHORAGE CAP W/ 1/4" VERTICAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61203

ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" FNPT SMOOTH PORT	HDPE YELLOW PER ASTM D3350	02DT0253

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" FNPT SMOOTH PORT

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C743

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CHK

CDL ZX

29JAN2020

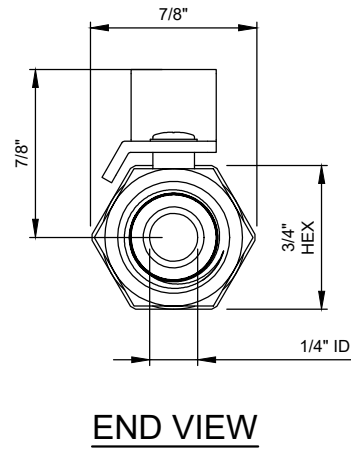
DATE

**structural TECHNOLOGIES**

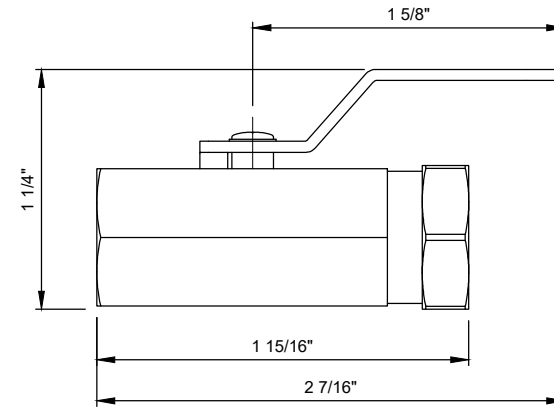
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
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 PHONE: (410) 850-7000  
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**END VIEW**



**SIDE VIEW**

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DESCRIPTION	MATERIAL	INVENTORY #
1/4 TURN BALL VALVE W/ 1/4" FNPT	SCH 40 STEEL	02DT01924

PROJECT INFORMATION:

SYSTEM DRAWING

1/4 TURN BALL VALVE W/ 1/4" FNPT

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C744

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DATE

29JAN2020

DESCRIPTION

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

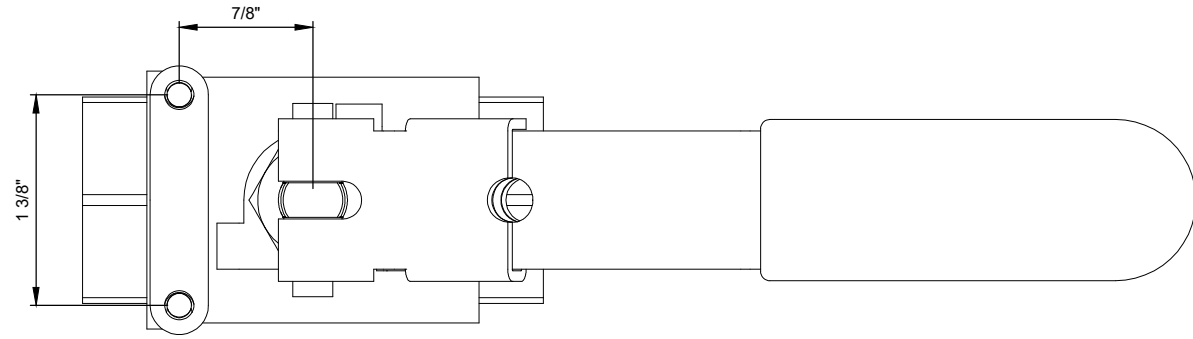
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29JAN2020

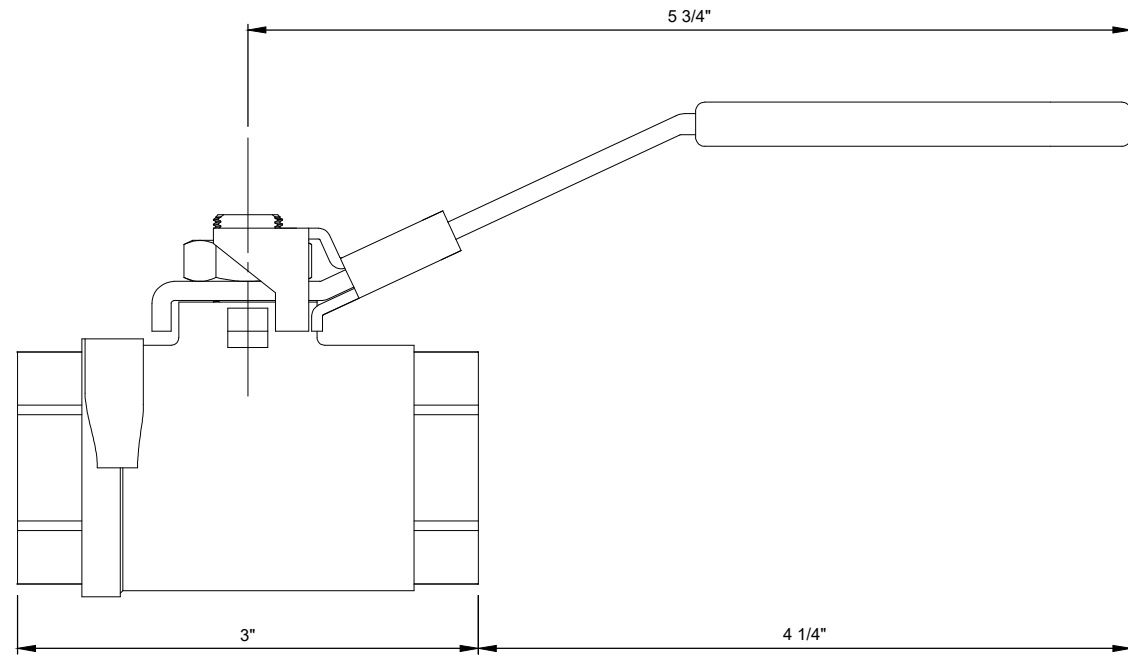
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 CORPORATE OFFICE COLUMBIA, MD 21046

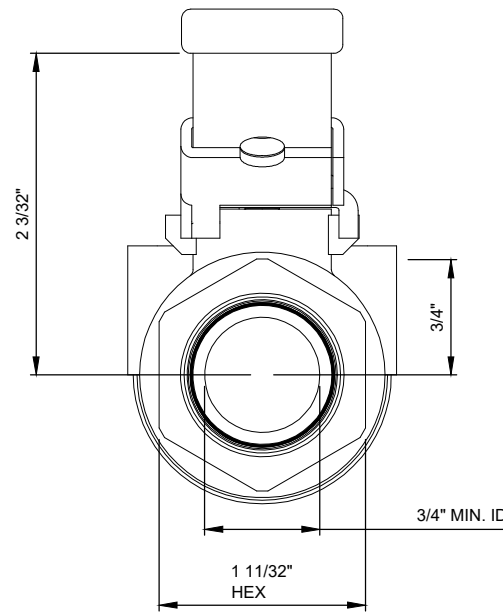
PHONE: (410) 850-7000  
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TOP VIEW



SIDE VIEW



END VIEW

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ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories

DESCRIPTION	MATERIAL	INVENTORY #
STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT	SCH 40 STEEL	02DT01925

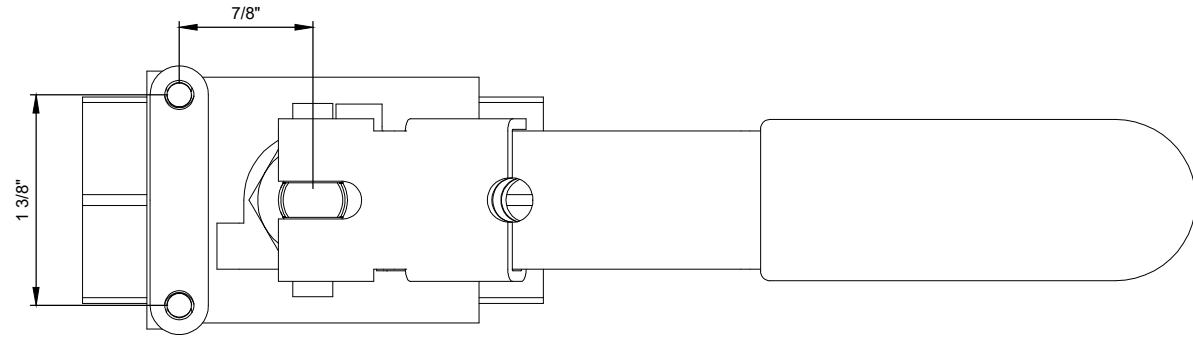
NOTE: THIS IS A TEMPORARY PART.

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

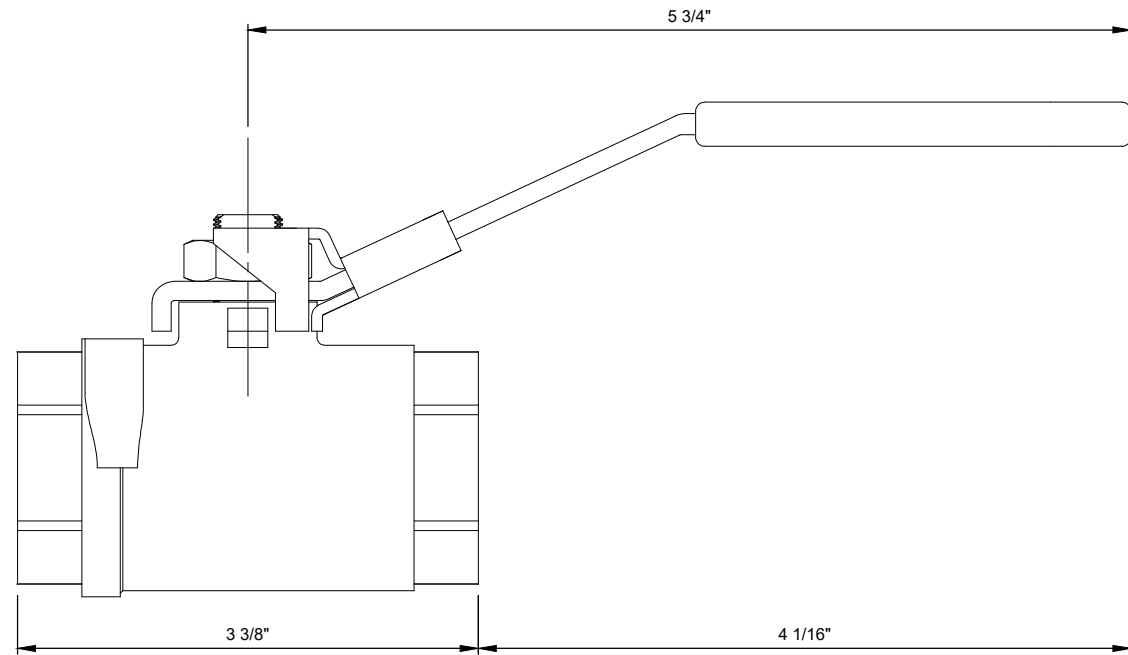
**structural TECHNOLOGIES**  
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 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046  
 PHONE: (410) 850-7000 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT
PROJECT NO:	SYSTEM
SCALE:	NTS
SHEET NO:	C745

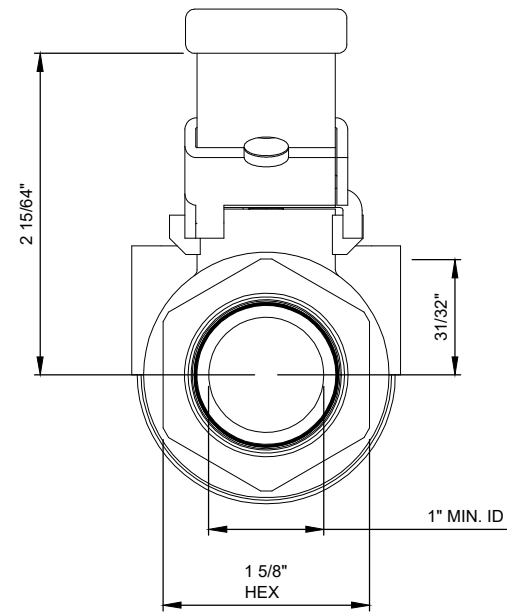
ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



**TOP VIEW**



**SIDE VIEW**



**END VIEW**

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DESCRIPTION	MATERIAL	INVENTORY #
STEEL 1/4 TURN BALL VALVE W/ 1" FNPT	SCH 40 STEEL	02DT01926

NOTE: THIS IS A TEMPORARY PART.

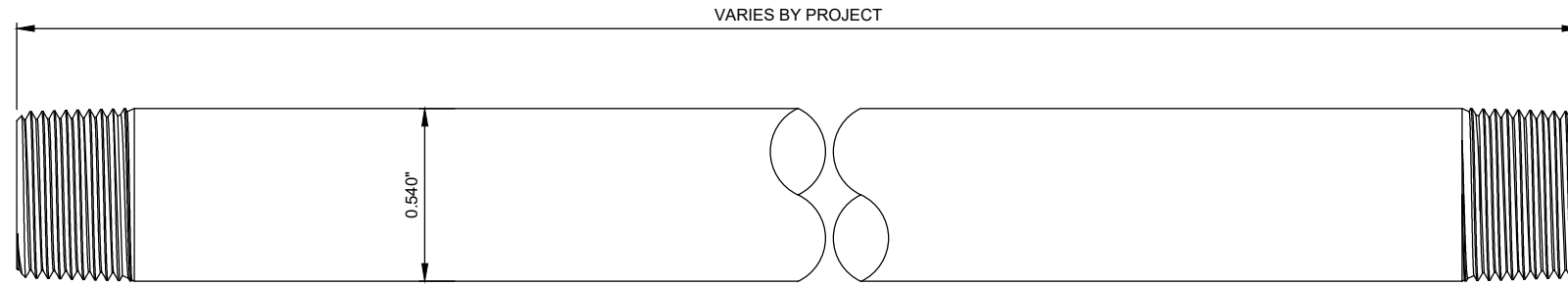
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

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 CORPORATE OFFICE  
 10150 OLD COLUMBIA RD  
 COLUMBIA, MD 21046

PROJECT INFORMATION:	SYSTEM DRAWING	TITLE:	STEEL 1/4 TURN BALL VALVE W/ 1" FNPT
PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:			<b>C746</b>

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



**SIDE VIEW**

DESCRIPTION	MATERIAL	INVENTORY #
1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-

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PROJECT INFORMATION:

SYSTEM DRAWING

1/4" NPT STEEL NIPPLE

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C749

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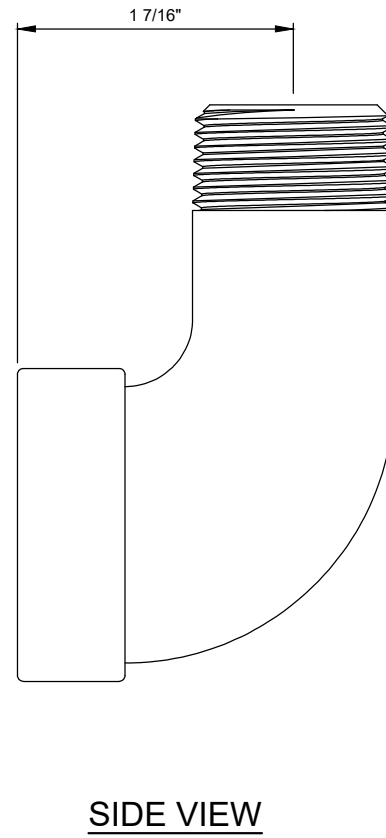
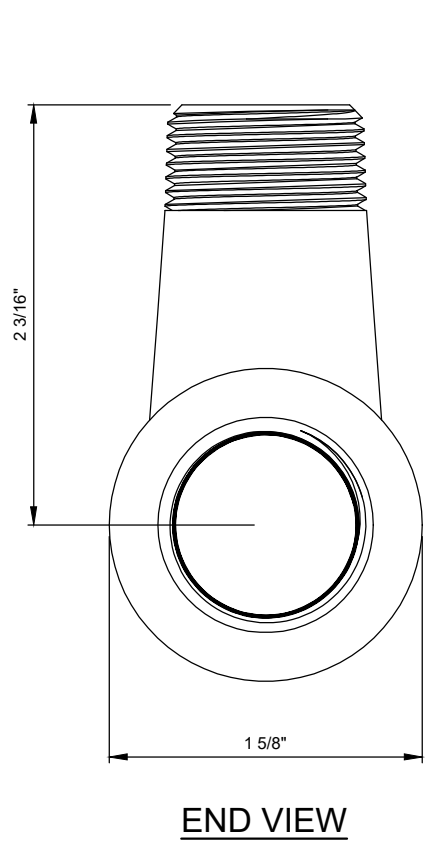
CDL ZX

CHK

DATE

29JAN2020

ELECTRONIC FILE LOCATION: I:\VSI\_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



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

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
<b>C750</b>	

SYSTEM DRAWING

3/4" FNPT X MNPT STEEL ELBOW

**structural TECHNOLOGIES**

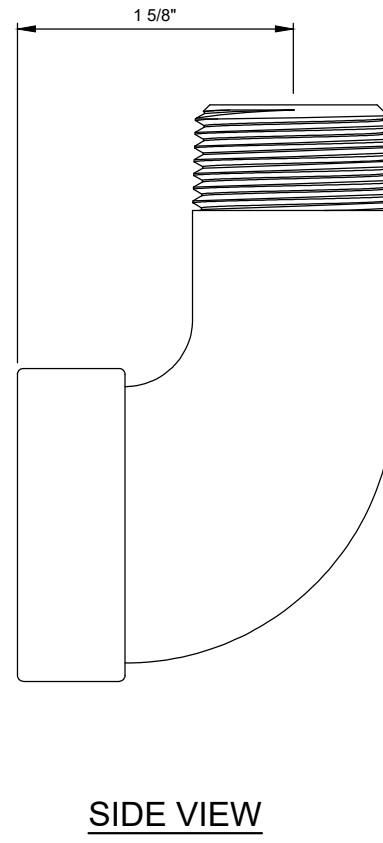
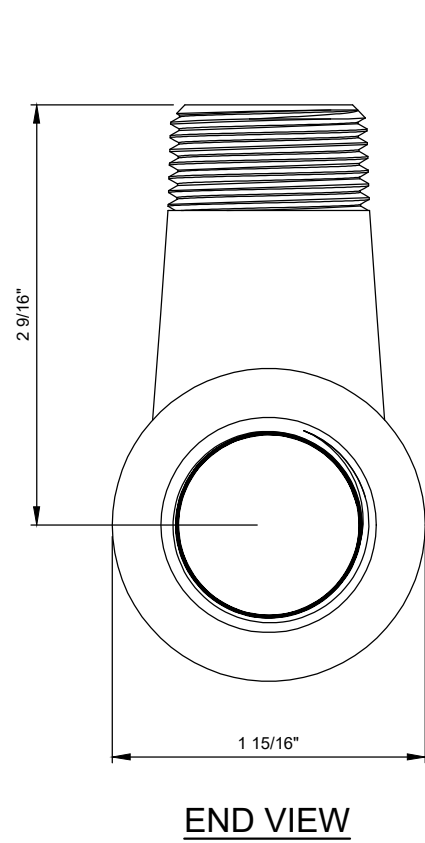
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CORPORATE OFFICE    COLUMBIA, MD 21046

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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
NO	DESCRIPTION	BY	CHK

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



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DESCRIPTION	MATERIAL	INVENTORY #
1" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01955

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
1" FNPT X MNPT STEEL ELBOW

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C751

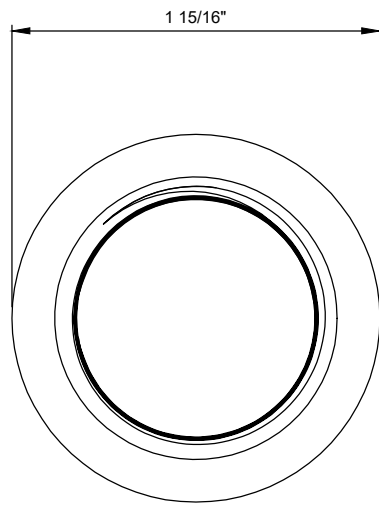
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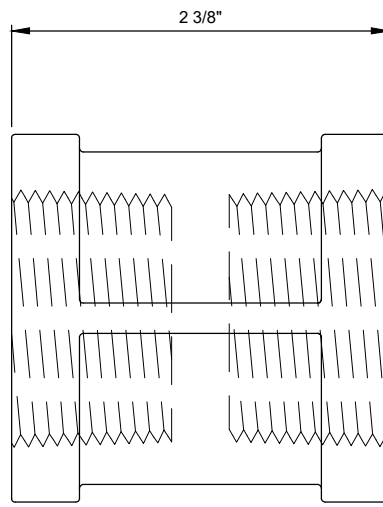
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NO	APPROVED FOR CONSTRUCTION	BY	CHK	DATE
NO	DESCRIPTION	CDL	ZX	29JAN2020

ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT F/F COUPLER	SCH 40 STEEL	02DT01953

PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT F/F COUPLER

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C752

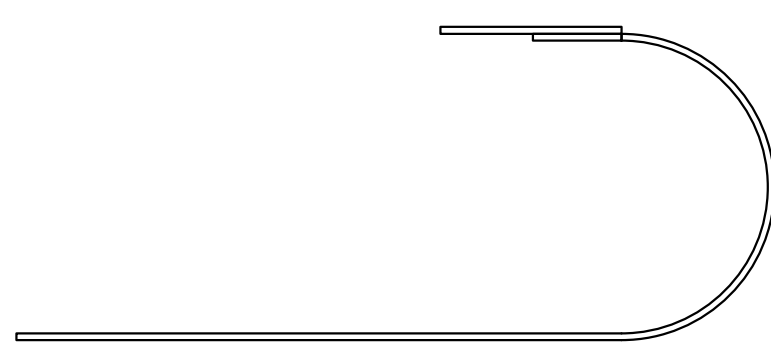
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APPROVED FOR CONSTRUCTION  
DESCRIPTION

CDL	ZX	29JAN2020
BY	CHK	DATE

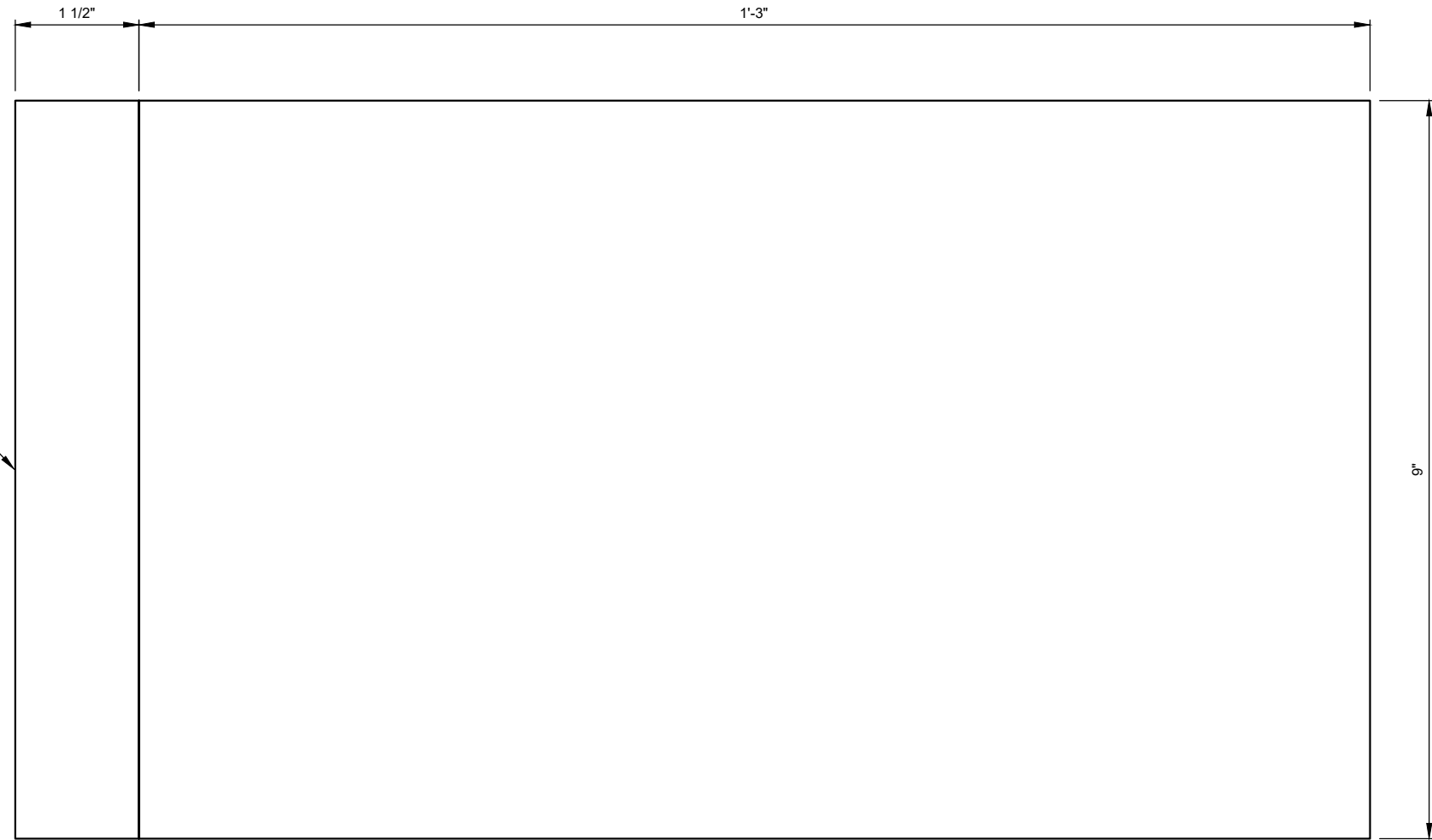
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ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EC 6-12 Flexible Filler Submittal



WRAPPED

ADHESIVE FLAP



UNWRAPPED

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

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DESCRIPTION	MATERIAL	INVENTORY #
CANUSA KLNN-90 WS BK/L 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0513

PROJECT INFORMATION:

SYSTEM DRAWING

KLNN-90 9" HEAT SHRINK SLEEVE

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C761

NO

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

DATE

NO

DESCRIPTION

BY

CHK

NO

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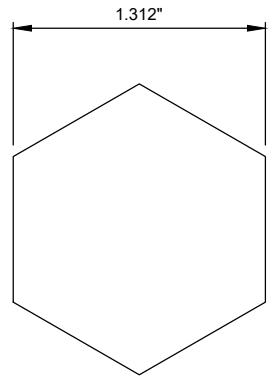
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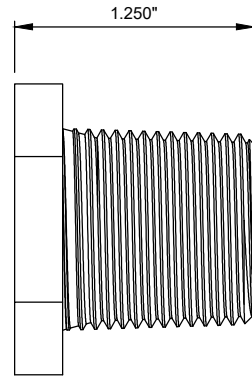
CHK



ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

DESCRIPTION	MATERIAL	INVENTORY #
3/4" NPT PE PLUG	BLACK HDPE PER ASTM D3350	02DT01913

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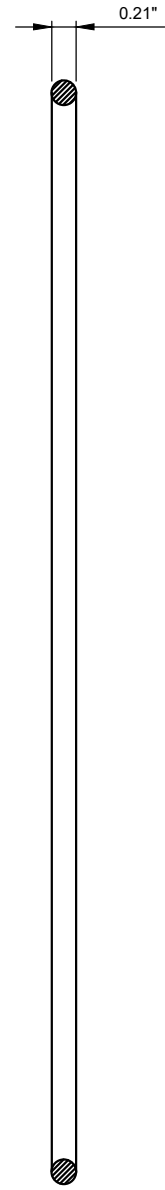
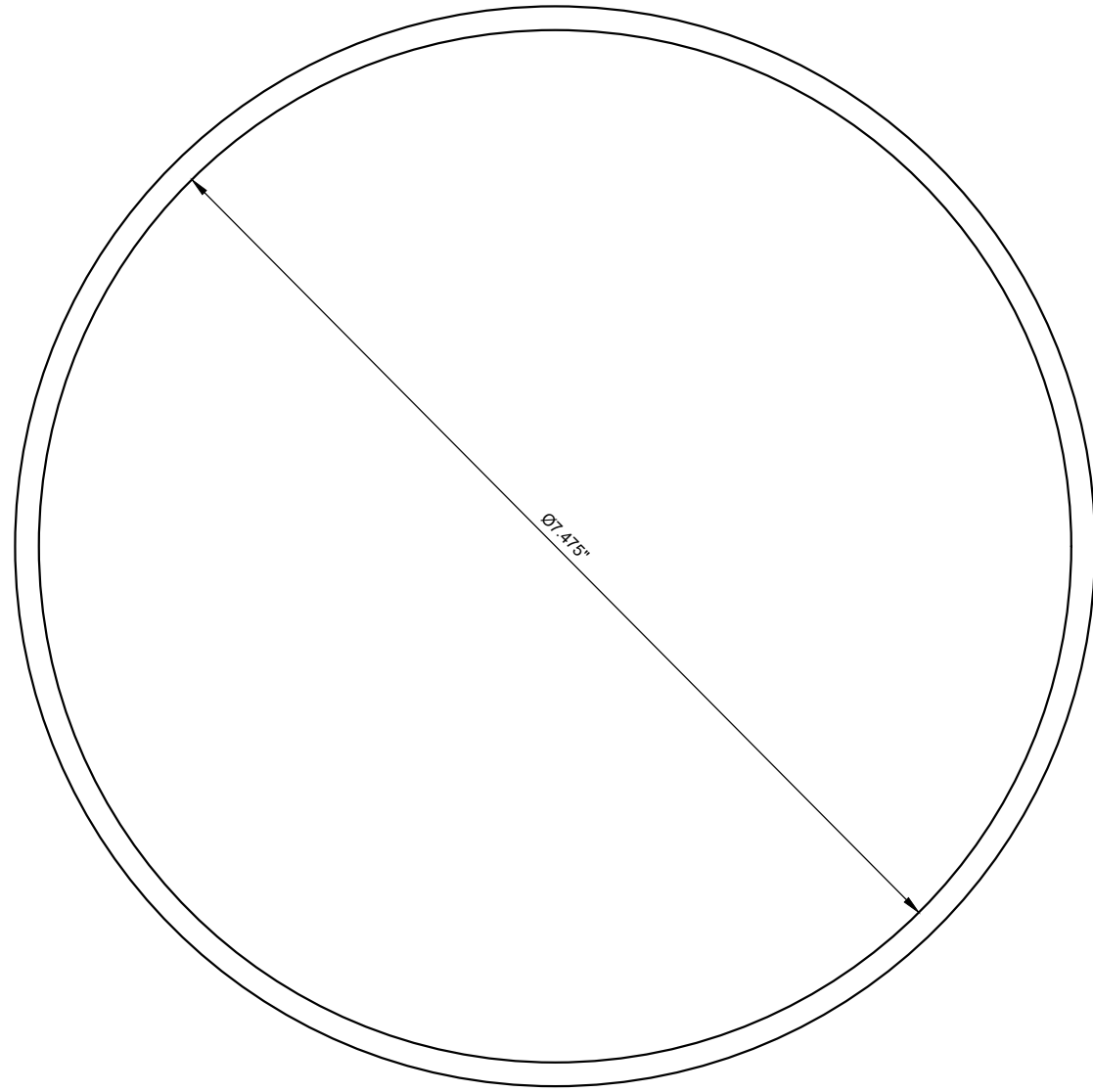
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	C787
TITLE:	3/4" NPT PE PLUG

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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\S\1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Grouted System



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DESCRIPTION	SIZE	MATERIAL	INVENTORY #
ECI 6-12 GROUT CAP O-RING	7.475"x7.895"x0.21"	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX5020

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:  
SYSTEM

SHEET NO:

TITLE:  
ECI 6-12 GROUT CAP BUNA-N 70 D O-RING

SCALE:  
NTS

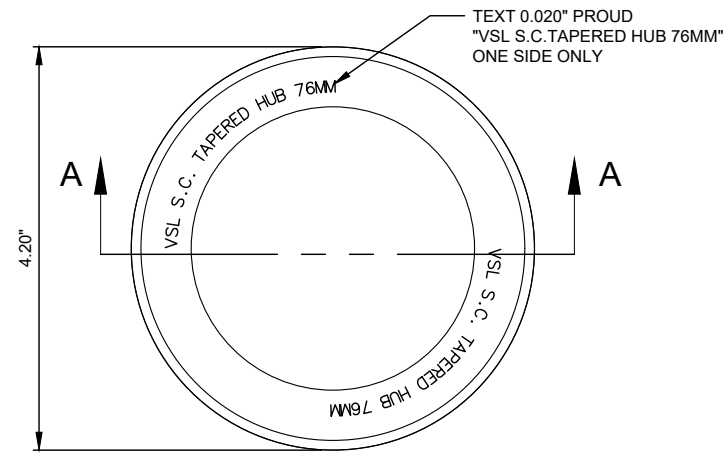
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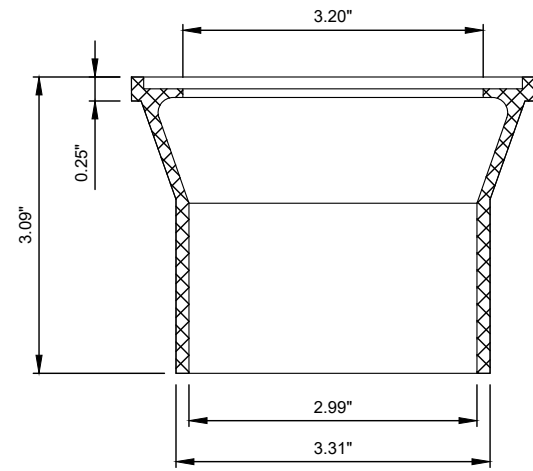
NO	APPROVED FOR CONSTRUCTION	BY	CHK	DATE
NO	DESCRIPTION	CDL	ZX	29JAN2020



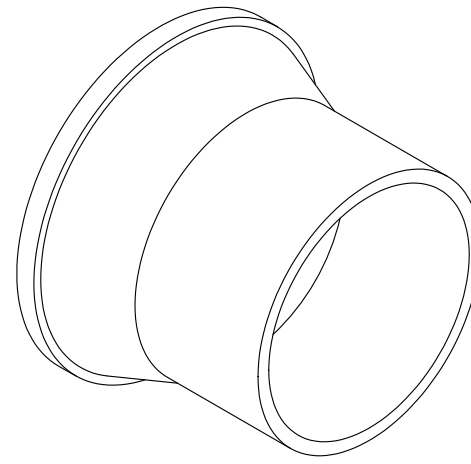
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**TOP VIEW**



**SECTION A-A**



**3D VIEW**

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DESCRIPTION	MATERIAL	INVENTORY #
3" SC BLK - TAPERED HUB PE	HDPE BLACK PER ASTM D3350	02SC07611

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
**3" SC BLK - TAPERED HUB PE**

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

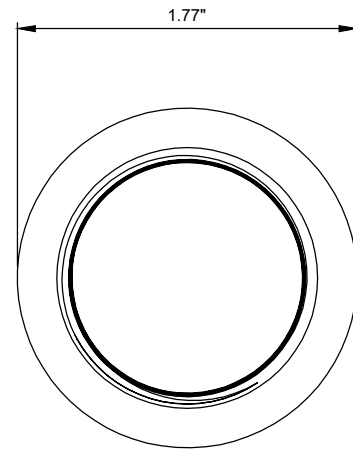
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**structural TECHNOLOGIES**

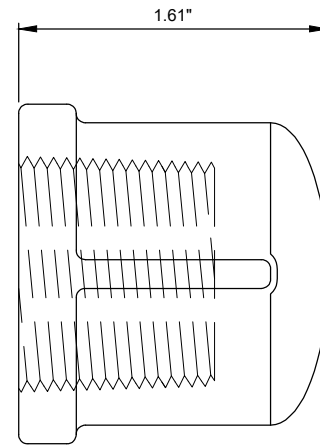
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL  
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 CORPORATE OFFICE COLUMBIA, MD 21046  
 PHONE: (410) 850-7000  
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT PP CAP	BLACK POLYPROPYLENE PER ASTM D4101	02DT01941

PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT PP CAP

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C877

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

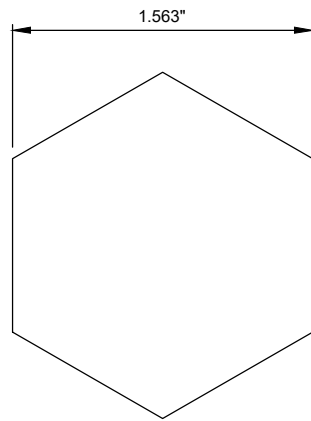
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29JAN2020

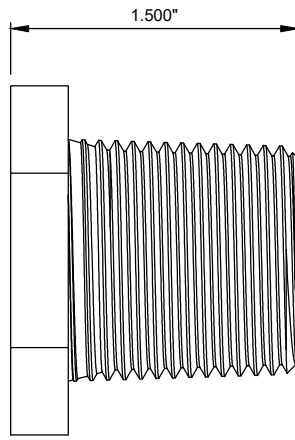
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD  
 CORPORATE OFFICE COLUMBIA, MD 21046  
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.

DESCRIPTION	MATERIAL	INVENTORY #
1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948

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PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT PP PLUG

PROJECT NO:  
SYSTEM

SHEET NO:

SCALE:  
NTS

C879

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

DATE

29JAN2020

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 CORPORATE OFFICE COLUMBIA, MD 21046  
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DESCRIPTION	MATERIAL	INVENTORY #	DIM. "A"	DIM. "B"	MIN. BEND RADIUS
3" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	3.064"	3.5"	16'-0"

PROJECT INFORMATION:

SYSTEM DRAWING

3" HDPE PIPE

PROJECT NO:  
SYSTEM

SHEET NO:

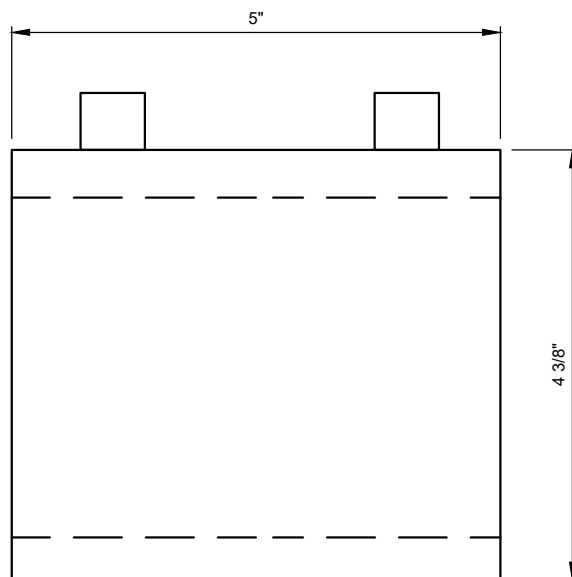
SCALE:  
NTS

C882A

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 CORPORATE OFFICE COLUMBIA, MD 21046  
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT\_Test 2017\EC 6-7 Flexible Files\_Submittal



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
3" ELECTROFUSION COUPLER	COMPOSITE	02EF0003

PROJECT INFORMATION:

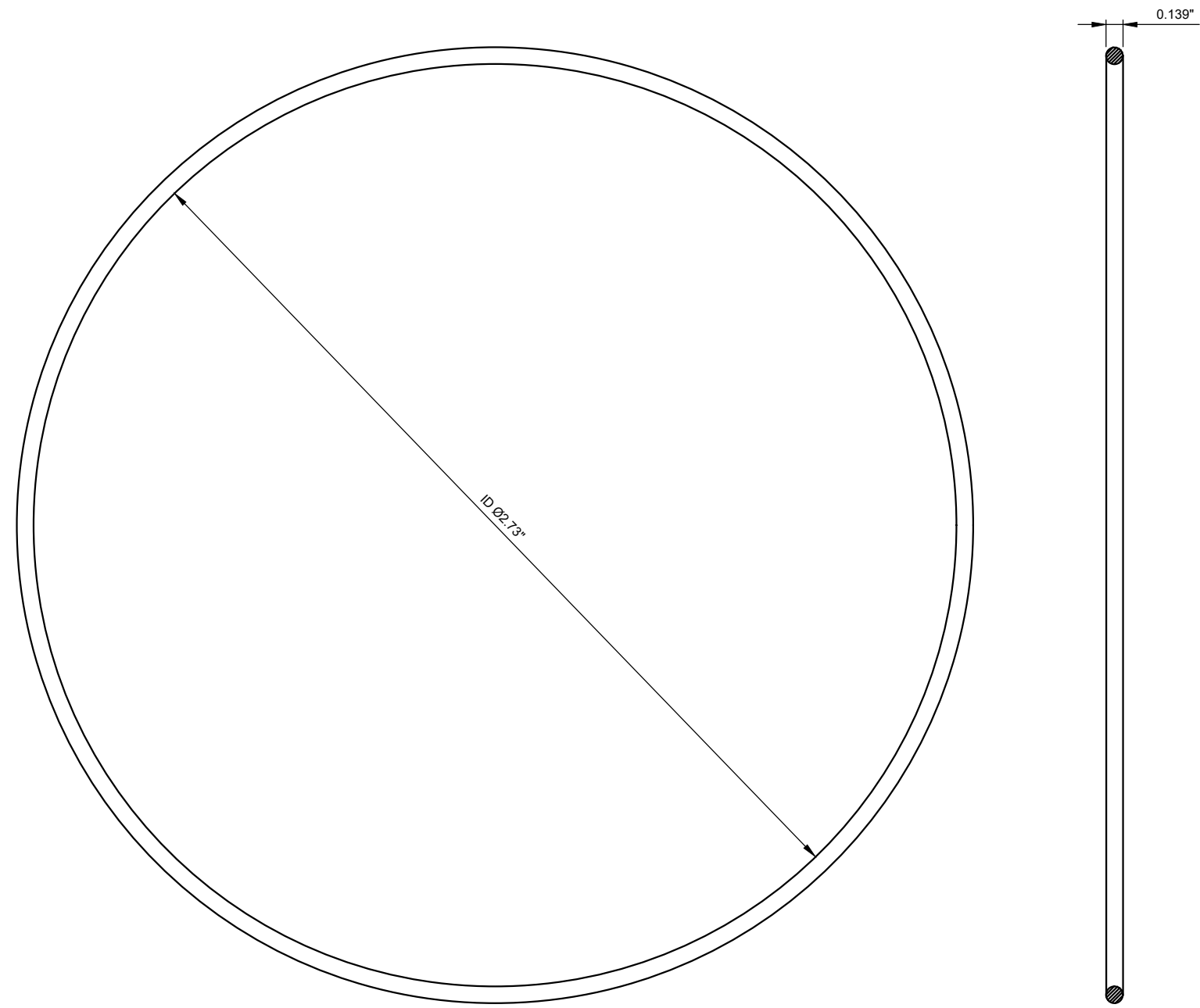
PROJECT NO:	SYSTEM
TITLE:	3" ELECTROFUSION COUPLER
SHEET NO:	C896
SCALE:	NTS

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 CORPORATE OFFICE COLUMBIA, MD 21046  
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE



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DESCRIPTION	MATERIAL	SIZE	INVENTORY #
76MM SEGMENTAL COUPLER O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	2.73"X3.01"X0.139"	02WX0232

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		NO	DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>76MM SEGMENTAL COUPLER O-RING</p>		<p>PROJECT NO: SYSTEM</p> <p>SHEET NO: NTS</p> <p>TITLE: 76MM SEGMENTAL COUPLER O-RING</p> <p>SCALE: NTS</p>			
		<p><b>C903</b></p>			