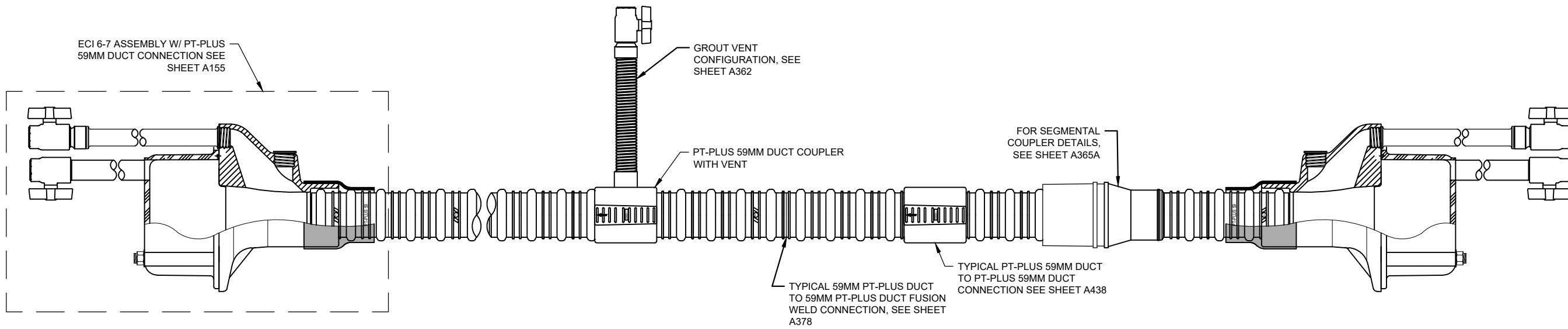


TENDON OVERALL ASSEMBLY



SEGMENTAL TENDON OVERALL ASSEMBLY

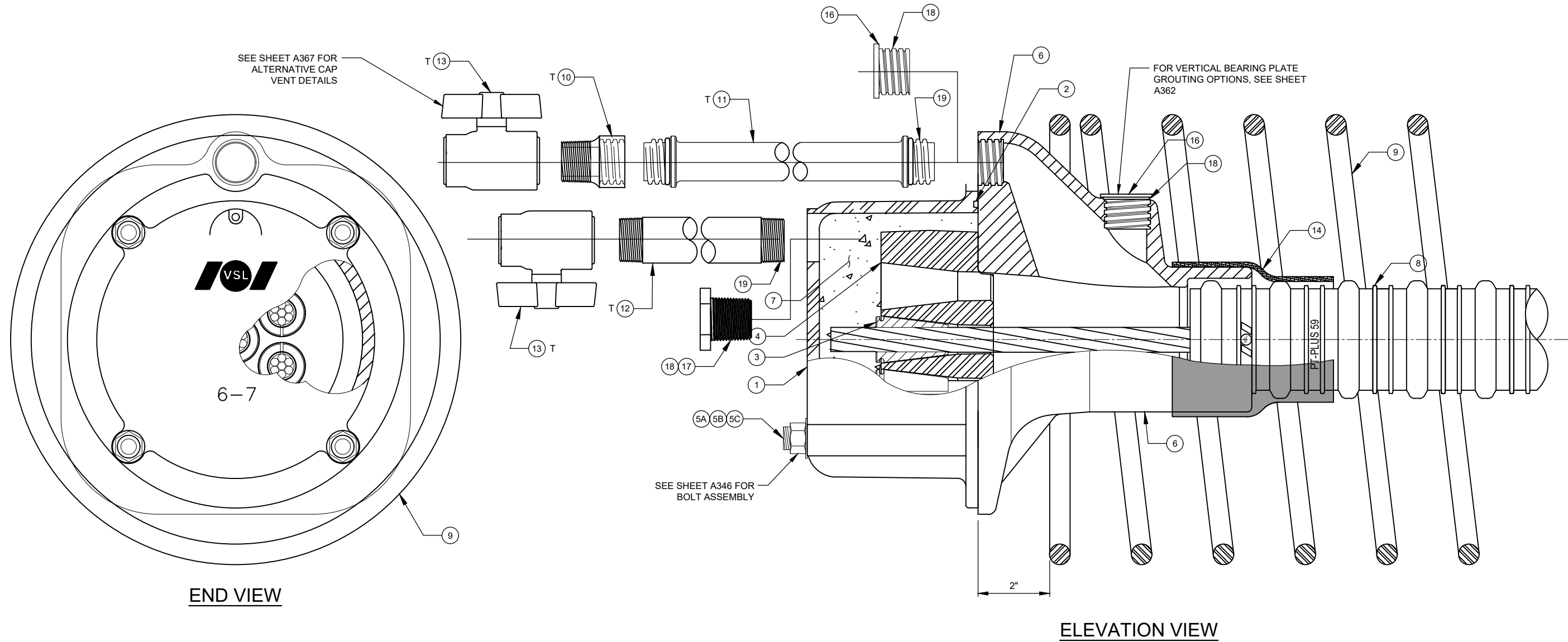
- NOTES:
 1. MINIMUM BEND RADIUS FOR 59MM DUCT IS 12'-0".

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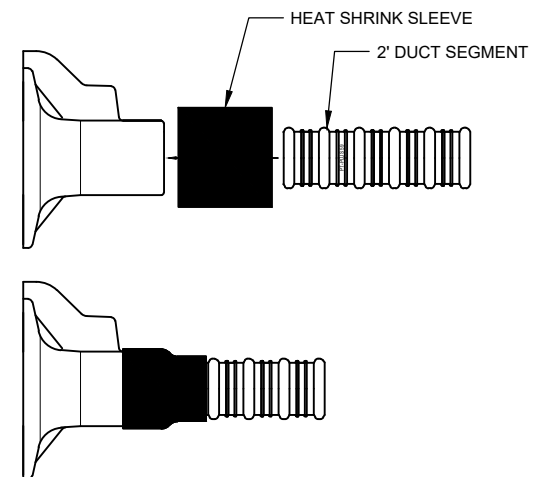
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PROJECT INFORMATION:		CDL	ZX	29JAN2020
SYSTEM DRAWING		BY	CHK	DATE
TITLE:		APPROVED FOR CONSTRUCTION		
PROJECT NO:		DESCRIPTION		
SYSTEM		NO		
SHEET NO:		A180		
SCALE:		NTS		
PROJECT INFORMATION:		structural TECHNOLOGIES Dallas, TX / Washington DC / 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:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Grouted System



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



DUCT SEGMENT INSTALLATION

- INSTALLATION PROCEDURES (INSTALLATION PROCEDURE IS GENERIC. FOLLOW THE PROJECT SPECIFIC REQUIREMENTS AND THE FDOT SPECIFICATIONS)
1. PRE-ASSEMBLE DUCT SEGMENT INTO THE BEARING PLATE WITH HEAT SHRINK.
 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. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
 10. ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
 11. ELONGATION SHOULD BE WITHIN $\pm 7\%$.
 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 GROUT INJECTION.
 16. GROUT TENDON PER GROUT SPEC.

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	ECI 6-7 GROUT CAP W/ 3/4" NPT HORIZ. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC60701V	C802
2	1	ECI 6-7 GROUT CAP O-RING (.139 CS X 6.484" ID # -260)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX5013	C795
3	7	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17 PER ASTM A108	02WG0008	C218
4	1	ECI 6-7 ANCHOR HEAD	CAST IRON GR80-55-06 PER ASTM A536	02AH0036	C555
5A	1 SET	1/2-13 NC X 5 1/2"	(316L) STAINLESS PER ASTM F593	02WX5014D	A346
5B	1 SET	Ø1/2" FLAT WASHER	(316L) STAINLESS PER ASTM A240	02WX5014D	A346
5C	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5014D	A346
6	1	ECI 6-7 BEARING PLATE GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0036	C552
7	-	GROUT	PREMIUM NON-BLEED PER FDOT APL	-	-
8	-	DUCT, WHT PP, 59 MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412	C684A
9	1	SPIRAL, #4, DIA. 11", 3" PITCH, 6.5 TURNS	STEEL GR60 PER ASTM A615	02BP0095	C713
10	1	BR PLATE BUSHING 3/4" NPT 23MM	BLACK POLYPROPYLENE PER ASTM D4101	02DT0316	C715
11	1	23MM BP GROUT EXTENSION	WHITE POLYPROPYLENE PER ASTM D4101	02DT0318	C714
12	1	3/4" NPT PVC NIPPLE	SCH 80 WHITE PVC	-	C887
13	1	PVC 1/4 TURN BALL VALVE W/ 3/4" FNPT	SCH 80 WHITE PVC	02DT01916	C720
14	1	HEAT SHRINK SLEEVE CANUSA PLA-63-YE (6" LONG)	POLYOLEFIN PER TABLE 960 2.2.1.8-1	02DT0503	C791
16	2	BEARING PLATE GROUT PLUG 23MM	HDPE BLACK PER ASTM D3350	02DT0341	C583
17	1	3/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01913	C787
18	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
19	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-

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

PROJECT INFORMATION:
 SYSTEM DRAWING
 ECI 6-7 INTERNAL GROUTED ASSEMBLY

PROJECT NO: SYSTEM
 SHEET NO: A155

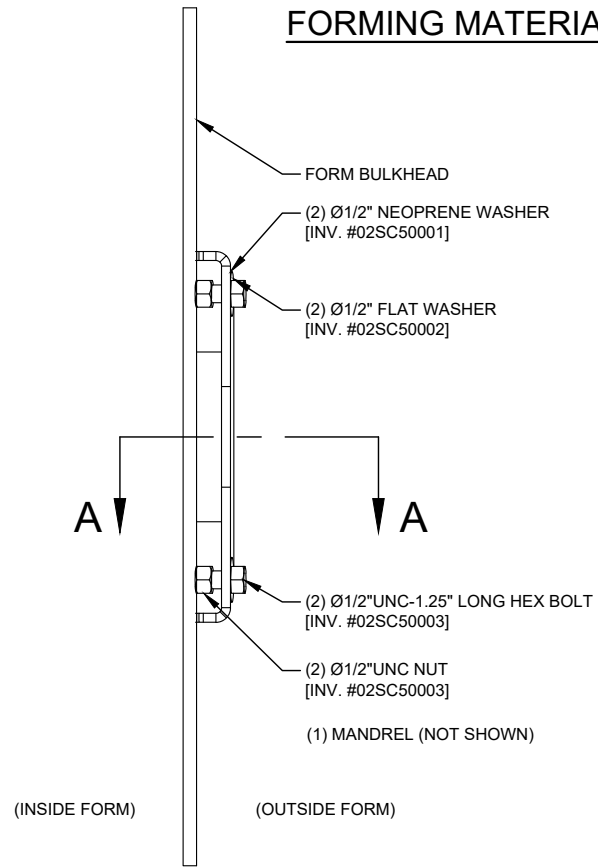
TITLE: ECI 6-7 INTERNAL GROUTED ASSEMBLY
 SCALE: NTS

APPROVED FOR CONSTRUCTION
 CDL ZX
 BY: CHK
 DATE: 29JAN2020

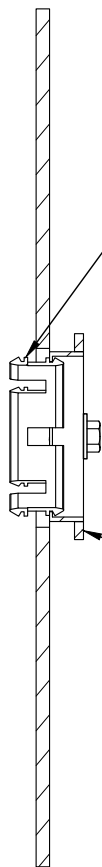
NO
 DESCRIPTION

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Grouted System

FORMING MATERIALS



FORM PLAN VIEW



SPIDER CLIP
FOR 59MM, SEE SHEET C817 [INV. #02SC05904]
FOR 76MM, SEE SHEET C818 [INV. #02SC07604]
FOR 100MM, SEE SHEET C819 [INV. #02SC10004]
FOR 130MM, SEE SHEET C820 [INV. #02SC13004]

NOTES:

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

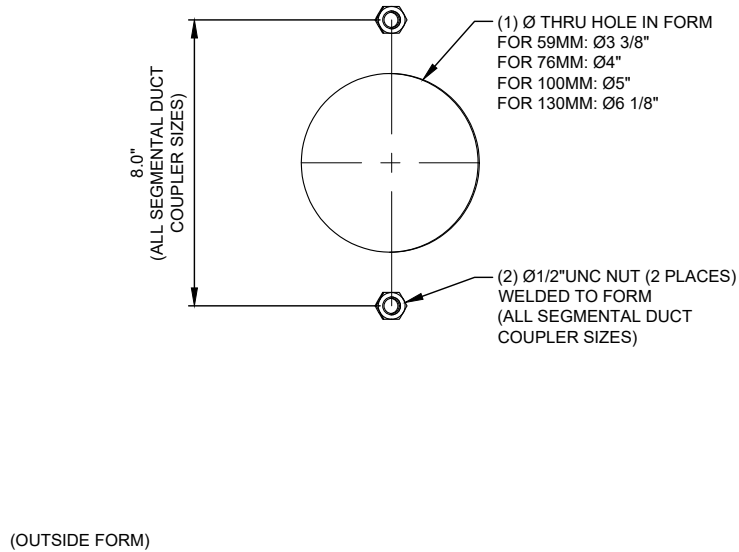
FORM TOOL
FOR 59MM, SEE SHEET C672 [INV. #02SC05905]
FOR 76MM, SEE SHEET C651 [INV. #02SC07605]
FOR 100MM, SEE SHEET C645 [INV. #02SC10005]
FOR 130MM, SEE SHEET C661 [INV. #02SC13005]

NOTES:

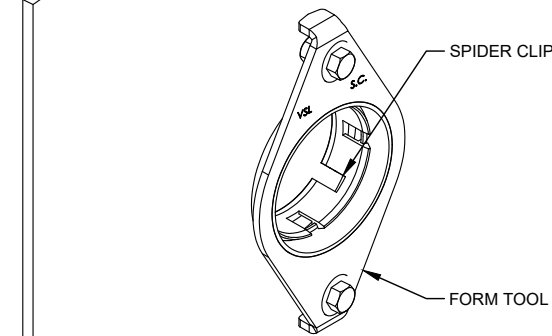
1. PART NUMBERS SHOWN ARE FOR 3/8" THICK FORMWORK ONLY
2. ALTERNATE FORM TOOLS MAY BE USED BY CONTRACTOR ONLY IF THEY PERMIT $\pm 6^\circ$ SKEW ANGLE AND IF THEY POSITION THE RECESS FORMER HALF-WAY INSIDE THE FORM BEING CAST.

FORM ELEVATION VIEW SECTION A-A

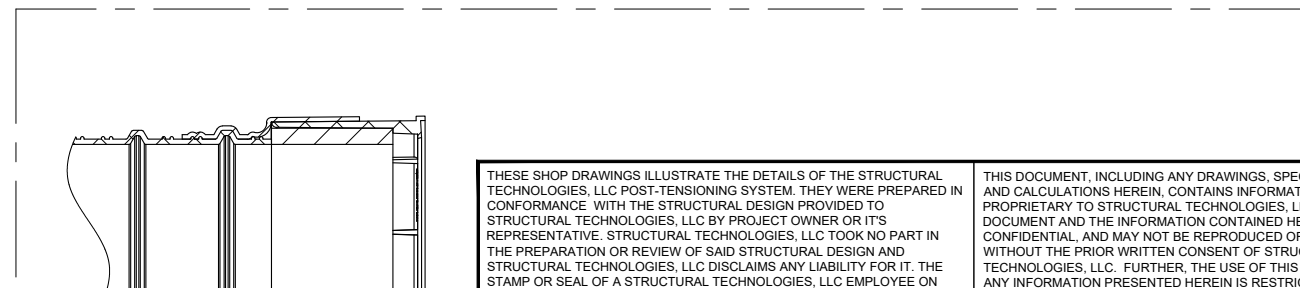
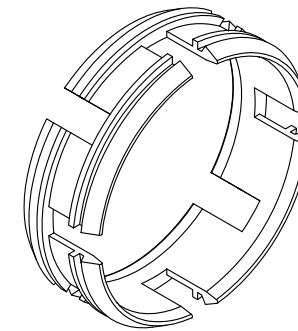
FORMING PREPARATION GUIDE



(INSIDE FORM) (OUTSIDE FORM)



SPIDER CLIP DETAIL



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PROJECT INFORMATION:		CDL	ZX	29JAN2020	DATE
SYSTEM DRAWING		APPROVED FOR CONSTRUCTION	BY	CHK	
SEGMENTAL DUCT COUPLER INSTALLATION GUIDE		DESCRIPTION	NO		
TITLE:		A243 - 1 of 8			
PROJECT NO:		SYSTEM			
SHEET NO:		NTS			
SCALE:		NTS			
PROJECT INFORMATION:		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			

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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

PROJECT INFORMATION:

PROJECT NO:
SYSTEM

SHEET NO:

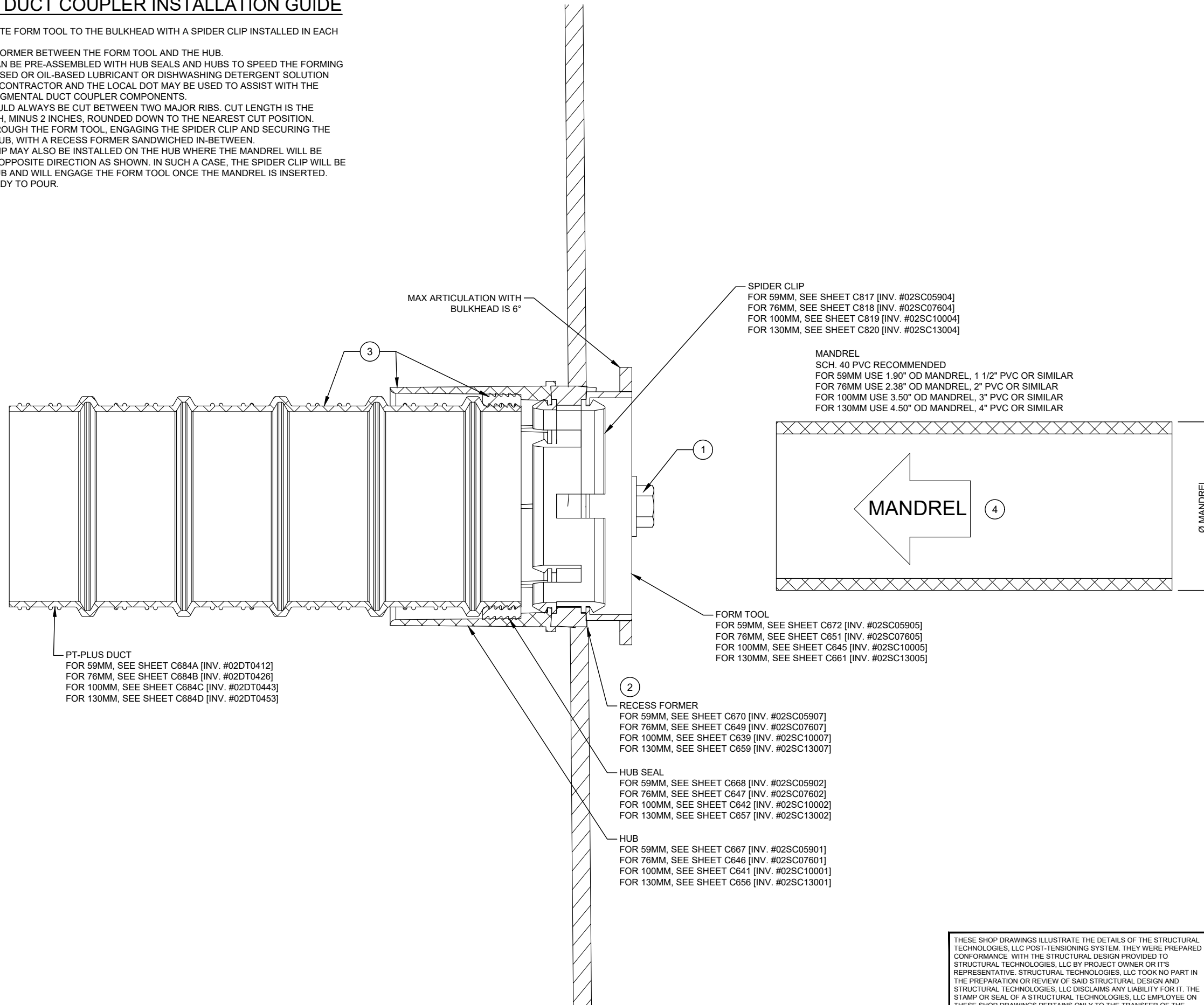
SCALE:
NTS

A243 - 1 of 8

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE

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.
 - 3.1. NOTE: DUCT SHOULD ALWAYS BE CUT BETWEEN TWO MAJOR RIBS. CUT LENGTH IS THE SEGMENT LENGTH, MINUS 2 INCHES, ROUNDED DOWN TO THE NEAREST CUT POSITION.
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.

WET CAST FORM



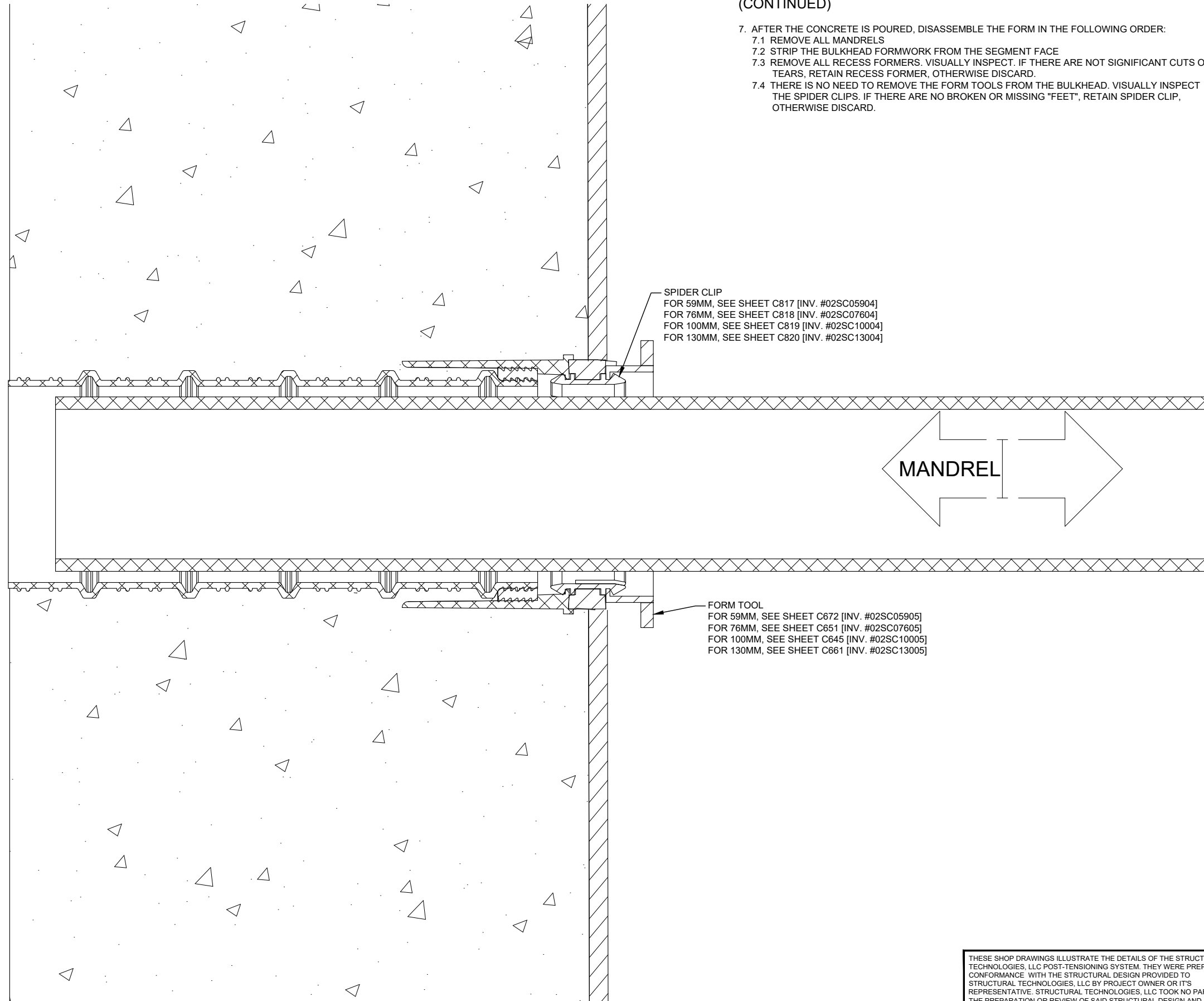
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PROJECT INFORMATION:		DATE	29JAN2020
SYSTEM DRAWING	APPROVED FOR CONSTRUCTION	BY	CDL ZX
SEGMENTAL DUCT COUPLER INSTALLATION GUIDE	DESCRIPTION	NO	
TITLE:	SCALE:	A243 - 2 of 8	
PROJECT NO:	SYSTEM	NTS	
SHEET NO:			

structural TECHNOLOGIES
 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

WET CAST FORM



SPIDER CLIP
 FOR 59MM, SEE SHEET C817 [INV. #02SC05904]
 FOR 76MM, SEE SHEET C818 [INV. #02SC07604]
 FOR 100MM, SEE SHEET C819 [INV. #02SC10004]
 FOR 130MM, SEE SHEET C820 [INV. #02SC13004]

FORM TOOL
 FOR 59MM, SEE SHEET C672 [INV. #02SC05905]
 FOR 76MM, SEE SHEET C651 [INV. #02SC07605]
 FOR 100MM, SEE SHEET C645 [INV. #02SC10005]
 FOR 130MM, SEE SHEET C661 [INV. #02SC13005]

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE
 (CONTINUED)

7. AFTER THE CONCRETE IS POURED, DISASSEMBLE THE FORM IN THE FOLLOWING ORDER:
 - 7.1 REMOVE ALL MANDRELS
 - 7.2 STRIP THE BULKHEAD FORMWORK FROM THE SEGMENT FACE
 - 7.3 REMOVE ALL RECESS FORMERS. VISUALLY INSPECT. IF THERE ARE NOT SIGNIFICANT CUTS OR TEARS, RETAIN RECESS FORMER, OTHERWISE DISCARD.
 - 7.4 THERE IS NO NEED TO REMOVE THE FORM TOOLS FROM THE BULKHEAD. VISUALLY INSPECT THE SPIDER CLIPS. IF THERE ARE NO BROKEN OR MISSING "FEET", RETAIN SPIDER CLIP, OTHERWISE DISCARD.

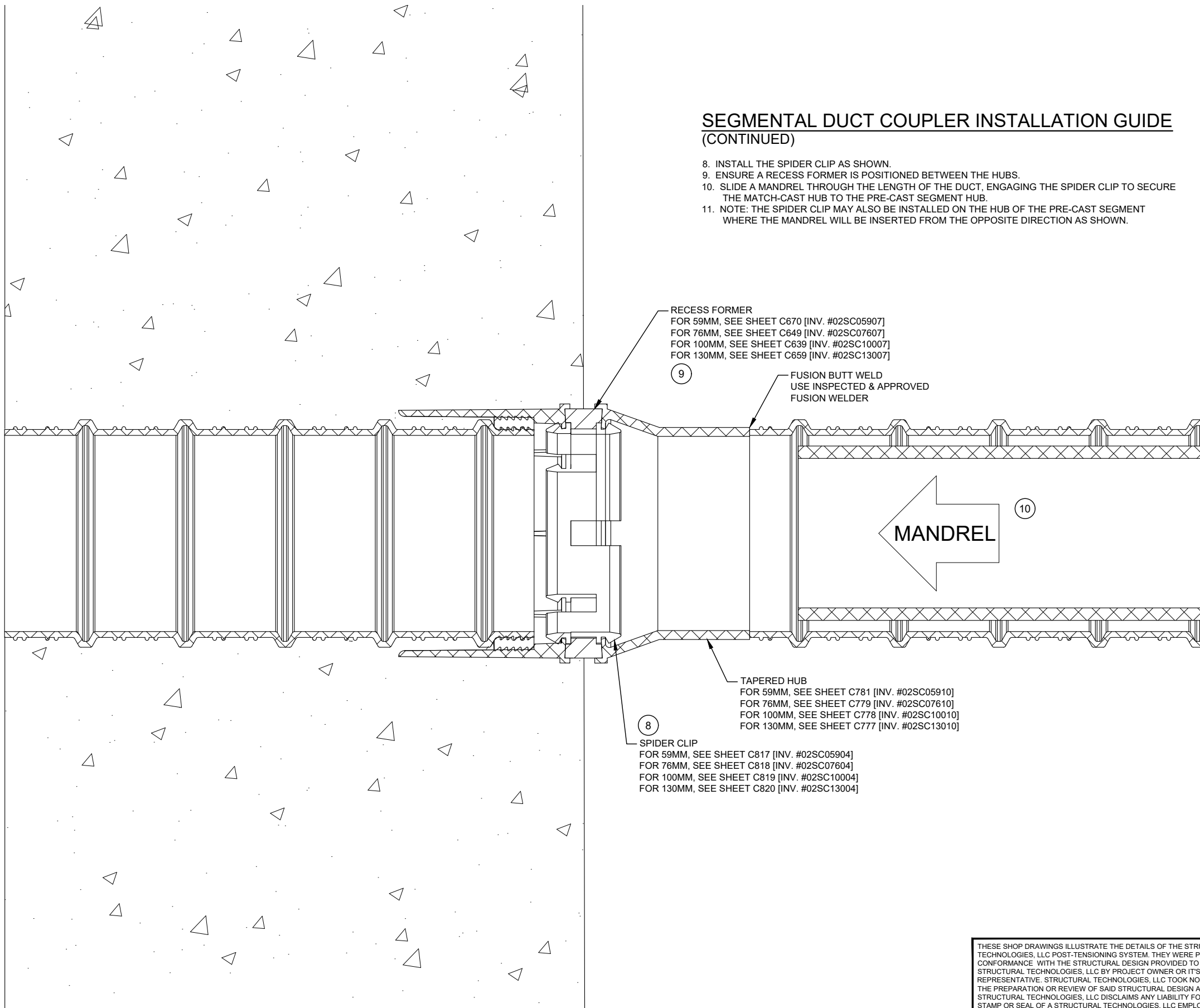
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PROJECT INFORMATION:	
PROJECT NO:	SYSTEM
SHEET NO:	A243 - 3 of 8
TITLE:	SEGMENTAL DUCT COUPLER INSTALLATION GUIDE
SCALE:	NTS
<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD CORPORATE OFFICE COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>	
APPROVED FOR CONSTRUCTION	DESCRIPTION
CDL	BY
ZX	CHK
29JAN2020	DATE
NO	NO

PRE-CAST SEGMENT

MATCH-CAST FORM



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

- 8. INSTALL THE SPIDER CLIP AS SHOWN.
- 9. ENSURE A RECESS FORMER IS POSITIONED BETWEEN THE HUBS.
- 10. SLIDE A MANDREL THROUGH THE LENGTH OF THE DUCT, ENGAGING THE SPIDER CLIP TO SECURE THE MATCH-CAST HUB TO THE PRE-CAST SEGMENT HUB.
- 11. NOTE: THE SPIDER CLIP MAY ALSO BE INSTALLED ON THE HUB OF THE PRE-CAST SEGMENT WHERE THE MANDREL WILL BE INSERTED FROM THE OPPOSITE DIRECTION AS SHOWN.

RECESS FORMER
FOR 59MM, SEE SHEET C670 [INV. #02SC05907]
FOR 76MM, SEE SHEET C649 [INV. #02SC07607]
FOR 100MM, SEE SHEET C639 [INV. #02SC10007]
FOR 130MM, SEE SHEET C659 [INV. #02SC13007]

FUSION BUTT WELD
USE INSPECTED & APPROVED
FUSION WELDER

MANDREL

TAPERED HUB
FOR 59MM, SEE SHEET C781 [INV. #02SC05910]
FOR 76MM, SEE SHEET C779 [INV. #02SC07610]
FOR 100MM, SEE SHEET C778 [INV. #02SC10010]
FOR 130MM, SEE SHEET C777 [INV. #02SC13010]

SPIDER CLIP
FOR 59MM, SEE SHEET C817 [INV. #02SC05904]
FOR 76MM, SEE SHEET C818 [INV. #02SC07604]
FOR 100MM, SEE SHEET C819 [INV. #02SC10004]
FOR 130MM, SEE SHEET C820 [INV. #02SC13004]

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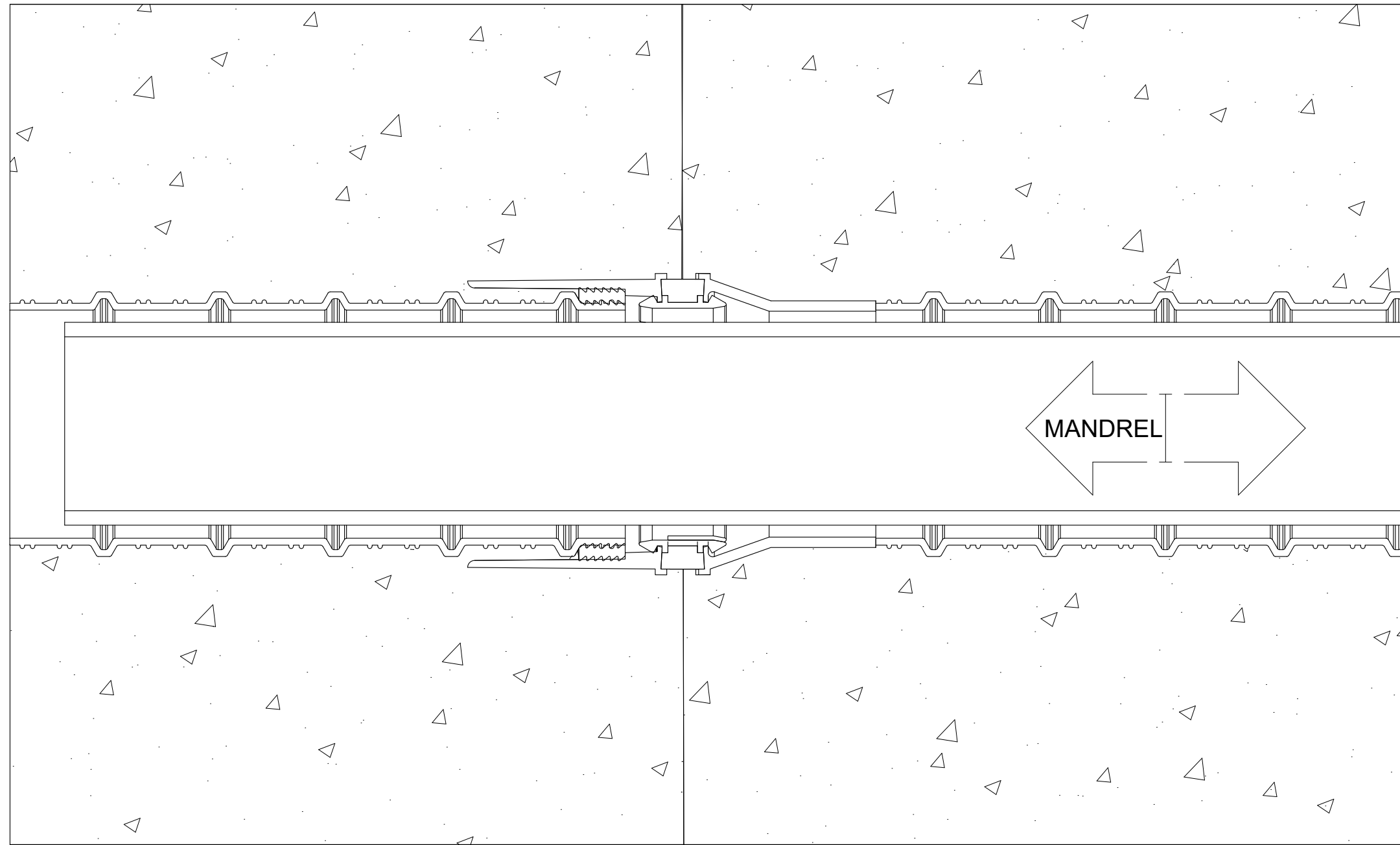
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APPROVED FOR CONSTRUCTION	NO	NO	BY	CDL ZK	CHK	DATE	29JAN2020
DESCRIPTION		NO		BY		DATE	
				Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCUTRAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com			
PROJECT INFORMATION:		SYSTEM DRAWING		TITLE:		SCALE:	
				SEGMENTAL DUCT COUPLER INSTALLATION GUIDE		SYSTEM NTS	
PROJECT NO:		SYSTEM		SHEET NO:		A243 - 4 of 8	

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

PRE-CAST SEGMENT

MATCH-CAST FORM



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

- 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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PROJECT INFORMATION:

SYSTEM DRAWING

SEGMENTAL DUCT COUPLER
INSTALLATION GUIDE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

A243 - 5 of 8

**structural
TECHNOLOGIES**

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

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DATE

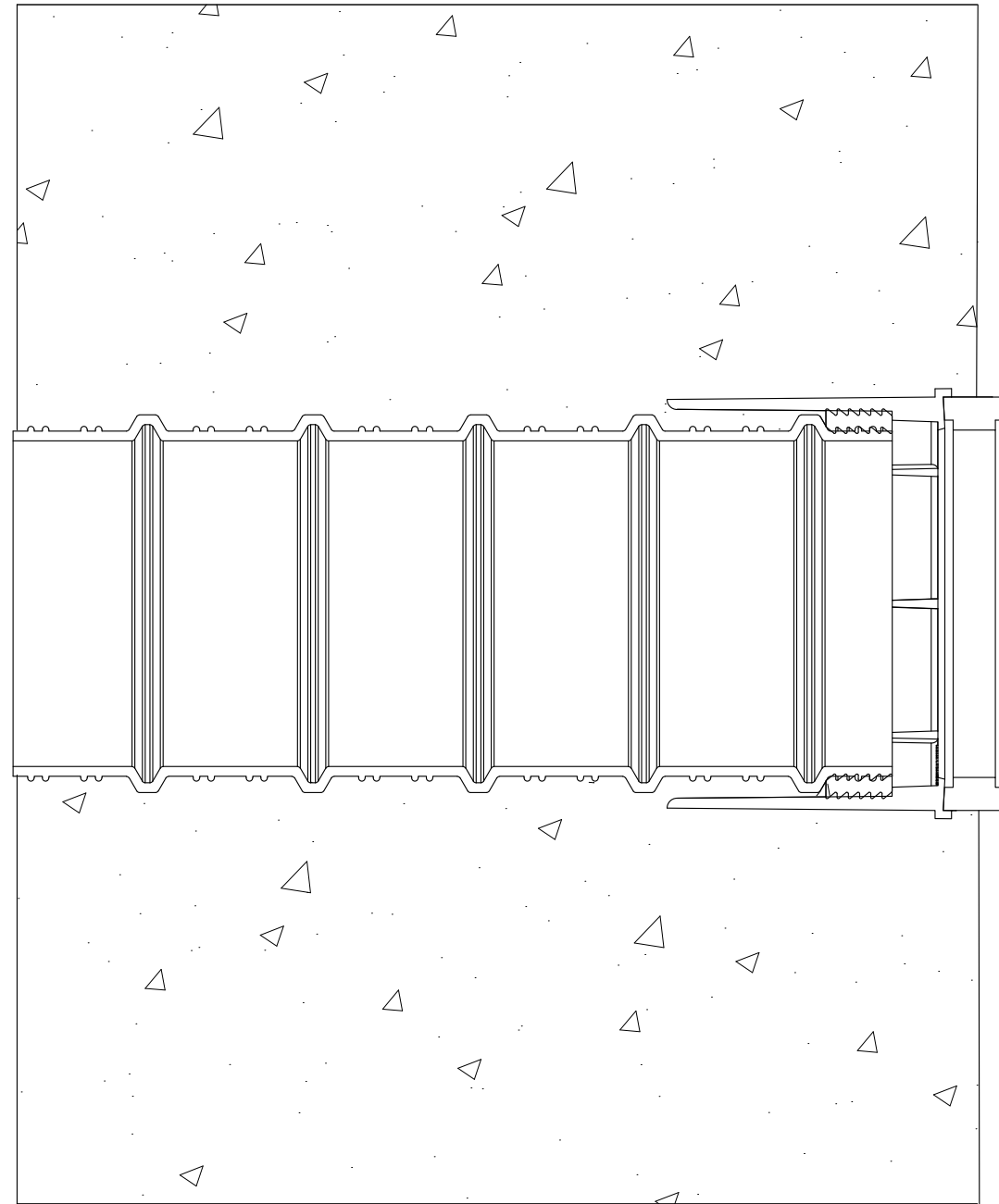
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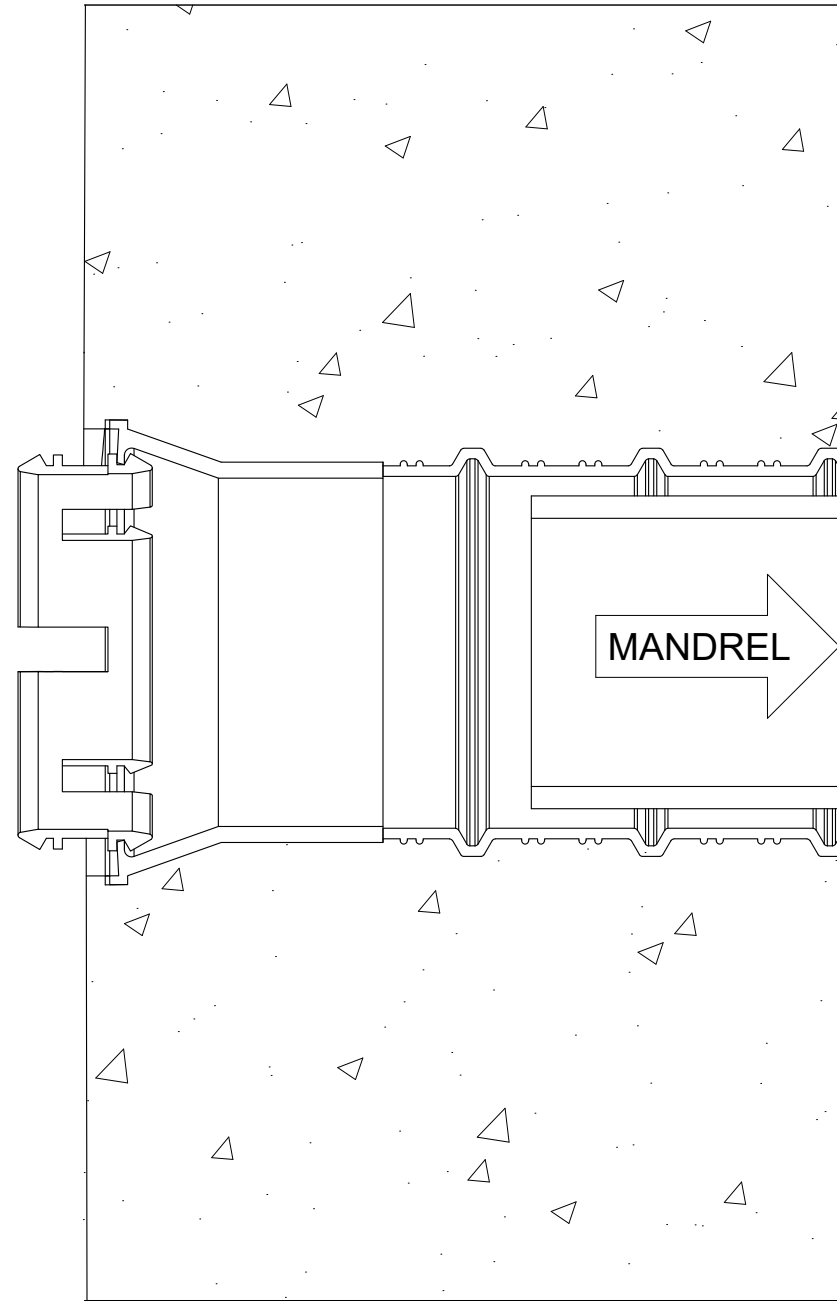
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ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

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 59MM, SEE SHEET C673 [INV. #02SC05906]
 - FOR 76MM, SEE SHEET C663 [INV. #02SC07606]
 - FOR 100MM, SEE SHEET C662 [INV. #02SC10006]
 - FOR 130MM, SEE SHEET C664 [INV. #02SC13006]

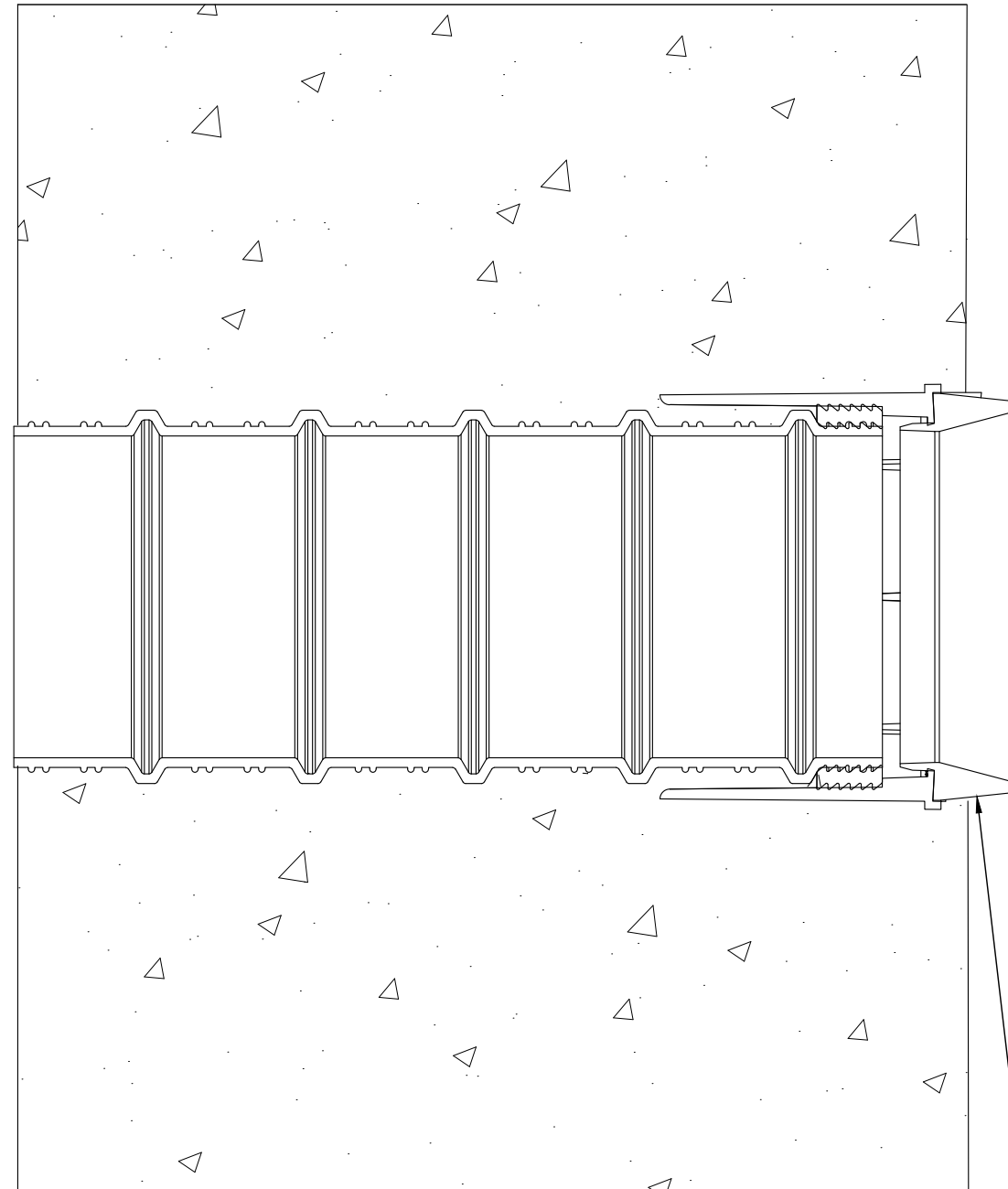
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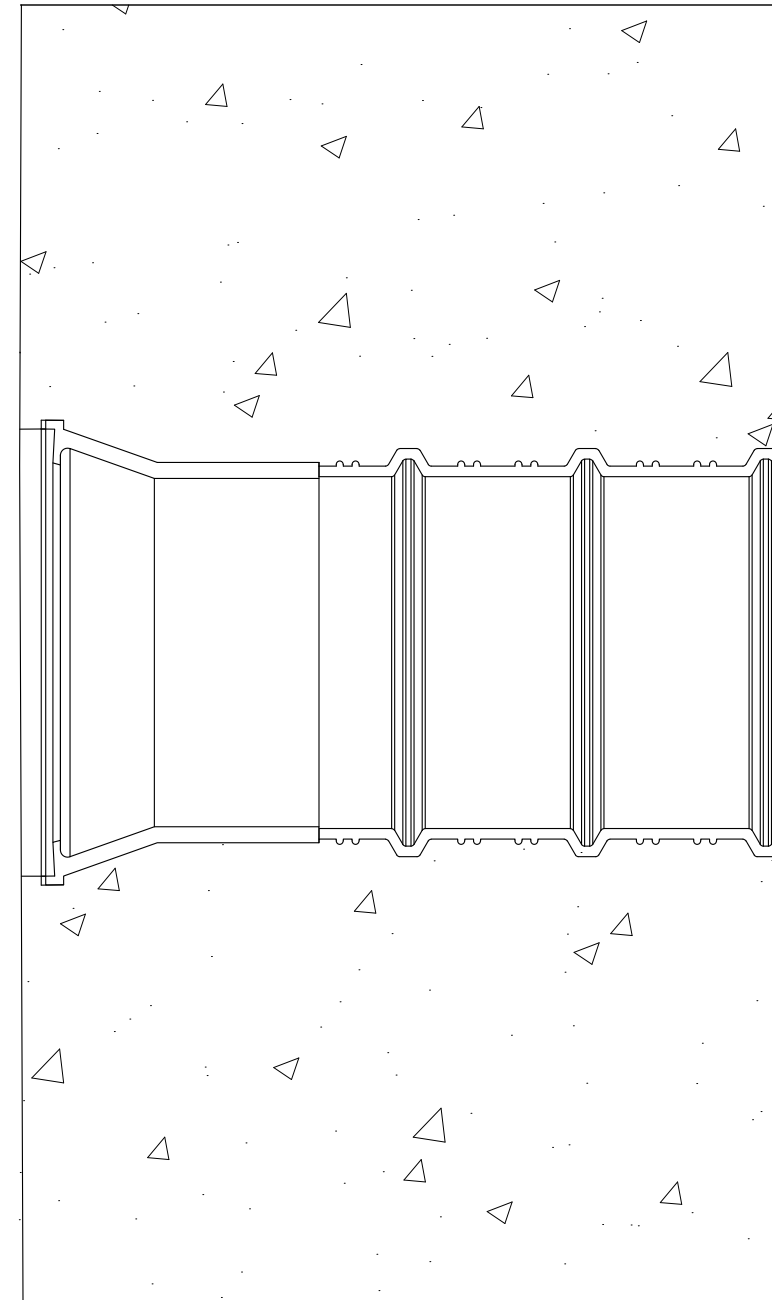
PROJECT INFORMATION:		PROJECT NO:	SYSTEM	SCALE:	NTS
		SHEET NO:	A243 - 6 of 8		
SYSTEM DRAWING		TITLE:	SEGMENTAL DUCT COUPLER INSTALLATION GUIDE		
		structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com			
APPROVED FOR CONSTRUCTION		CDL	ZX	29JAN2020	DATE
		BY		CHK	DATE
NO		DESCRIPTION			

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

PRE-CAST SEGMENT 1



PRE-CAST SEGMENT 2



FACE SEAL
 FOR 59MM, SEE SHEET C669 [INV. #02SC05903]
 FOR 76MM, SEE SHEET C648 [INV. #02SC07603]
 FOR 100MM, SEE SHEET C640 [INV. #02SC10003]
 FOR 130MM, SEE SHEET C658 [INV. #02SC13003]

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE (CONTINUED)

ONCE THE SEGMENTS HAVE BEEN TRANSPORTED AND ARE READY FOR ERECTION:

15. REMOVE PROTECTIVE CAPS FROM DUCT OPENINGS.
16. INSTALL FACE SEALS INTO ONE SEGMENT FACE ONLY.
17. APPLY SEGMENTAL EPOXY TO SEGMENT FACES AS REQUIRED. (DO NOT APPLY EPOXY TO FACE SEAL - STEPS 17 & 18 MAY BE REVERSED AT THE DISCRETION OF THE CONTRACTOR.)
18. BRING SEGMENTS TOGETHER AND SECURE WITH PT BAR.

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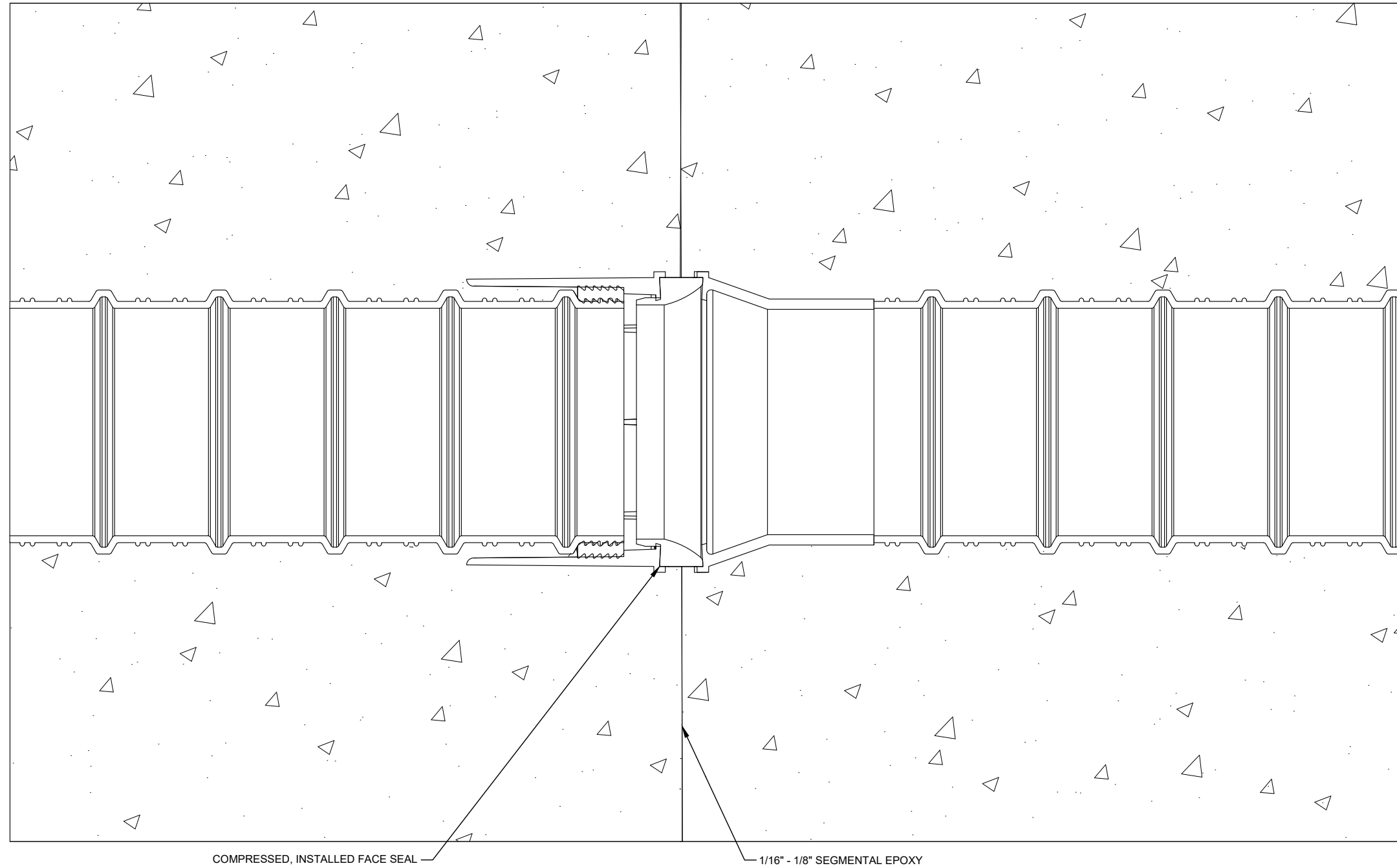
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PROJECT INFORMATION:		CDL	ZX	29JAN2020
		APPROVED FOR CONSTRUCTION	BY	CHK
SYSTEM DRAWING		NO	DESCRIPTION	
SEGMENTAL DUCT COUPLER INSTALLATION GUIDE				
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:	A243 - 7 of 8			
structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com				

PRE-CAST SEGMENT 1

FINAL ELEVATION SECTION - VIEW OF SEGMENTAL DUCT COUPLER JOINT

PRE-CAST SEGMENT 2



COMPRESSED, INSTALLED FACE SEAL

1/16" - 1/8" SEGMENTAL EPOXY

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PROJECT INFORMATION:

SYSTEM DRAWING

SEGMENTAL DUCT COUPLER
INSTALLATION GUIDE

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

A243 - 8 of 8

NO

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DESCRIPTION

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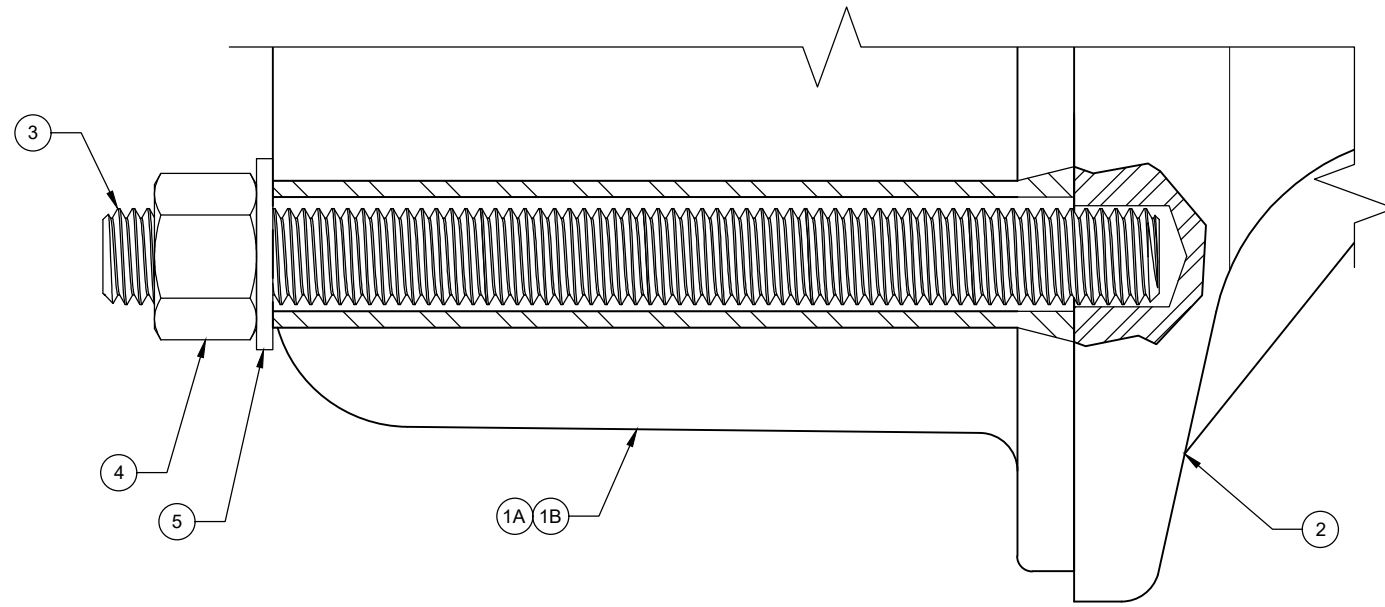
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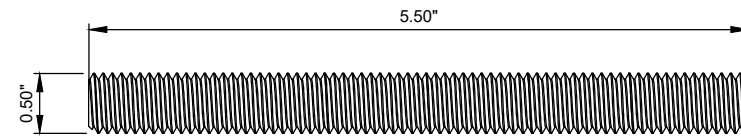
**structural
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 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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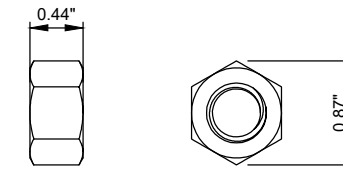
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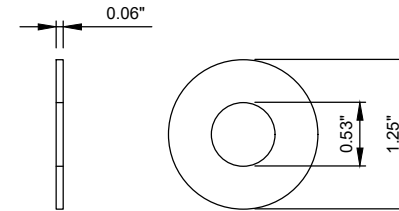
CAP TO BEARING PLATE BOLTED ASSEMBLY



3 1/2"-13 THREADED ROD



4 1/2"-13 NUT



5 1/2" WASHER

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-7 GROUT CAP W/ 3/4" NPT HORIZ. PORT	ABS LUSTRAM 633 PER ASTM D4673	02GC60701V	C802
1B	1	ECI 6-7 GROUT CAP W/ 3/4" NPT VERT. PORT	ABS LUSTRAM 633 PER ASTM D4673	02GC60701	C788
2	1	ECI 6-7 BEARING PLATE GALVANIZED PER ASTM A123	IRON GR80-55-06 PER ASTM A536	02BP0036	C552
3	1 SET	1/2"-13 THREADED ROD X 5 1/2"	(316L) STAINLESS PER ASTM F593	02WX5014D	A346
4	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5014D	A346
5	1 SET	1/2" WASHER	(316L) STAINLESS PER ASTM A240	02WX5014D	A346

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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-7 BOLT ASSEMBLY

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

A346

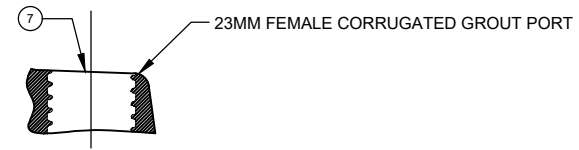
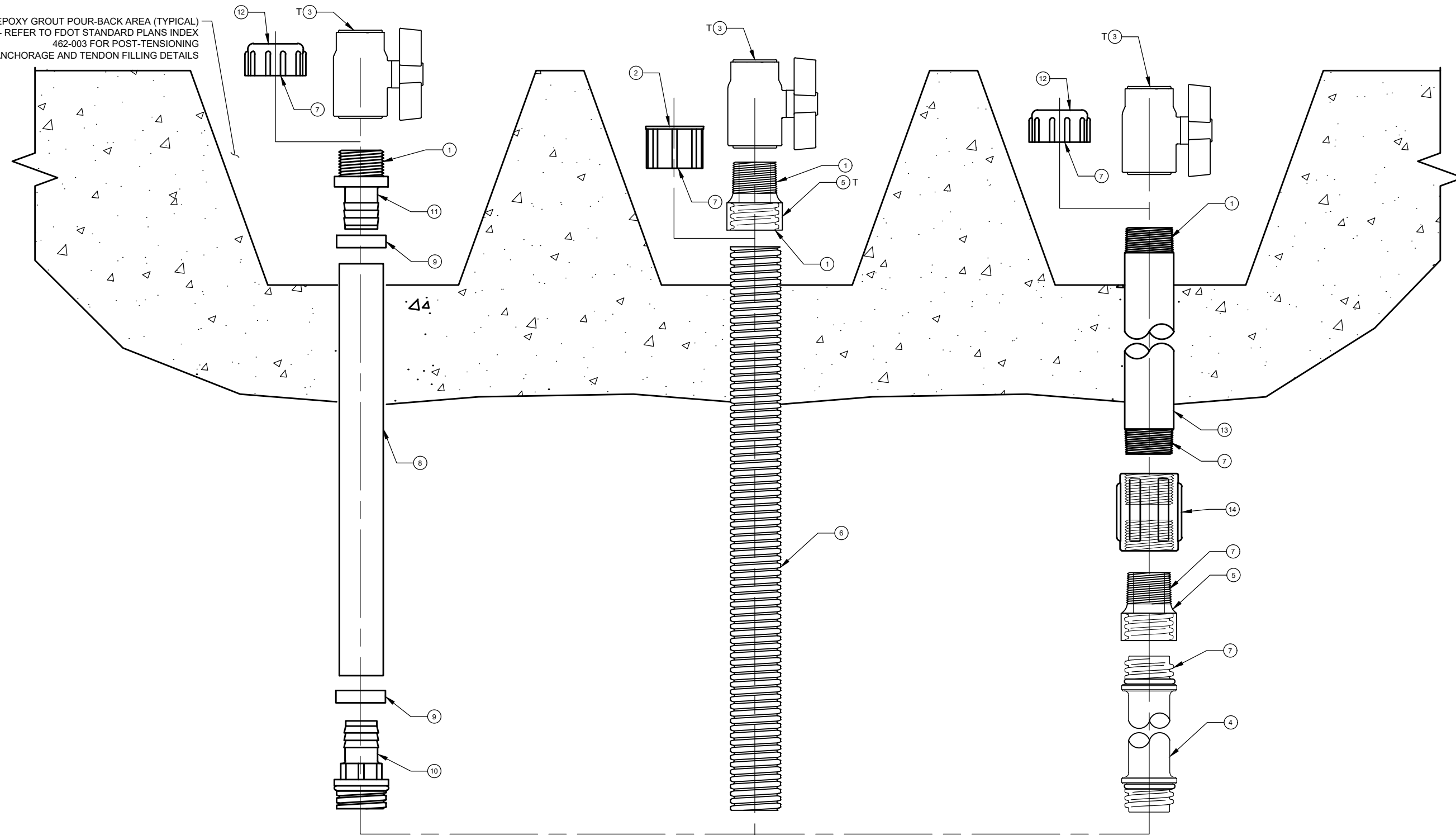
structural TECHNOLOGIES

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
 BY CHK
 DATE 29JAN2020

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



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-
2	1	23MM GROUT HOSE CAP	HDPE BLACK PER ASTM D3350	02DT0314	C586
3	1	PVC 1/4 TURN BALL VALVE W/ 3/4" FNPT	WHITE SCH 80 PVC	02DT01916	C720
4	1	23MM BP GROUT EXTENSION	WHITE POLYPROPYLENE PER ASTM D4101	02DT0318	C714
5	1	BR PLATE BUSHING 3/4" NPT 23MM	BLACK POLYPROPYLENE PER ASTM D4101	02DT0316	C715
6	-	23MM GROUT HOSE	HDPE BLACK PER ASTM D3350	02DT0310	C587
7	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
8	1	3/4" SMOOTH HOSE	HDPE BLACK PER ASTM D3350	02DT01901	C685
9	2	3/4" ONE EAR BAND CLAMP	(316L) STAINLESS PER ASTM A240	02DT01905	C690
10	1	3/4" HOSE BARB TO 23MM FITTING	BLACK POLYPROPYLENE PER ASTM D4101	02DT01903	C692
11	1	3/4" HOSE BARB TO 3/4" NPT FITTING	BLACK POLYPROPYLENE PER ASTM D4101	02DT01908	C694
12	1	RIBBED CAP 3/4" FNPT	BLACK POLYPROPYLENE PER ASTM D4101	02DT01912	C701
13	1	3/4" NPT PP NIPPLE	SCH 80 POLYPROPYLENE PER ASTM D4101	-	C723
14	1	3/4" NPT F/F PP COUPLER	BLACK POLYPROPYLENE PER ASTM D4101	02DT01931	C775

- 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
 - MINIMUM CONCRETE COVER SHALL BE 2" AND MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2
 - COMPONENTS MAY BE ASSEMBLED AS A VENT OR A DRAIN AS REQUIRED.

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ELECTRONIC FILE LOCATION: I:\S\1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Grouting Accessories

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structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

DATE

CDL

ZX

29JAN2020

APPROVED FOR CONSTRUCTION

DESCRIPTION

NO

BY

CHK

SYSTEM DRAWING

TITLE: GROUT INJECTION/VENT CONFIGURATION USING CORRUGATED GROUT PORT

PROJECT NO:

SCALE:

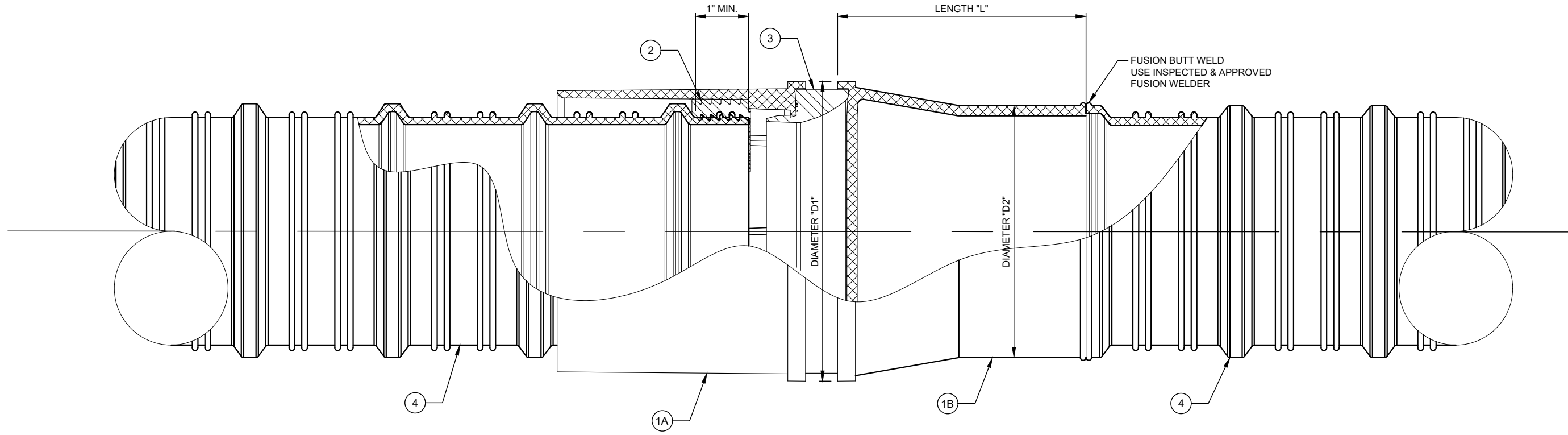
SYSTEM

NTS

SHEET NO:

A362

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



ELEVATION VIEW

59MM SEGMENTAL DUCT COUPLER

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	59MM DUCT SC - HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC05901	C667
1B	1	59MM DUCT SC - TAPERED HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC05910	C781
2	1	59MM DUCT SC - HUB SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC05902	C668
3	1	59MM DUCT SC - FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC05903	C669
4	-	DUCT WHT PP 59MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412	C684A

TAPERED HUB SIZE CHART

DESCRIPTION	LENGTH "L"	DIAMETER "D1"	DIAMETER "D2"
59MM DUCT SC - TAPERED HUB	3.21"	3.38"	2.56"

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PROJECT INFORMATION:

SYSTEM DRAWINGS

TITLE:
59MM GROUDED SEGMENTAL DUCT COUPLER CONNECTION

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

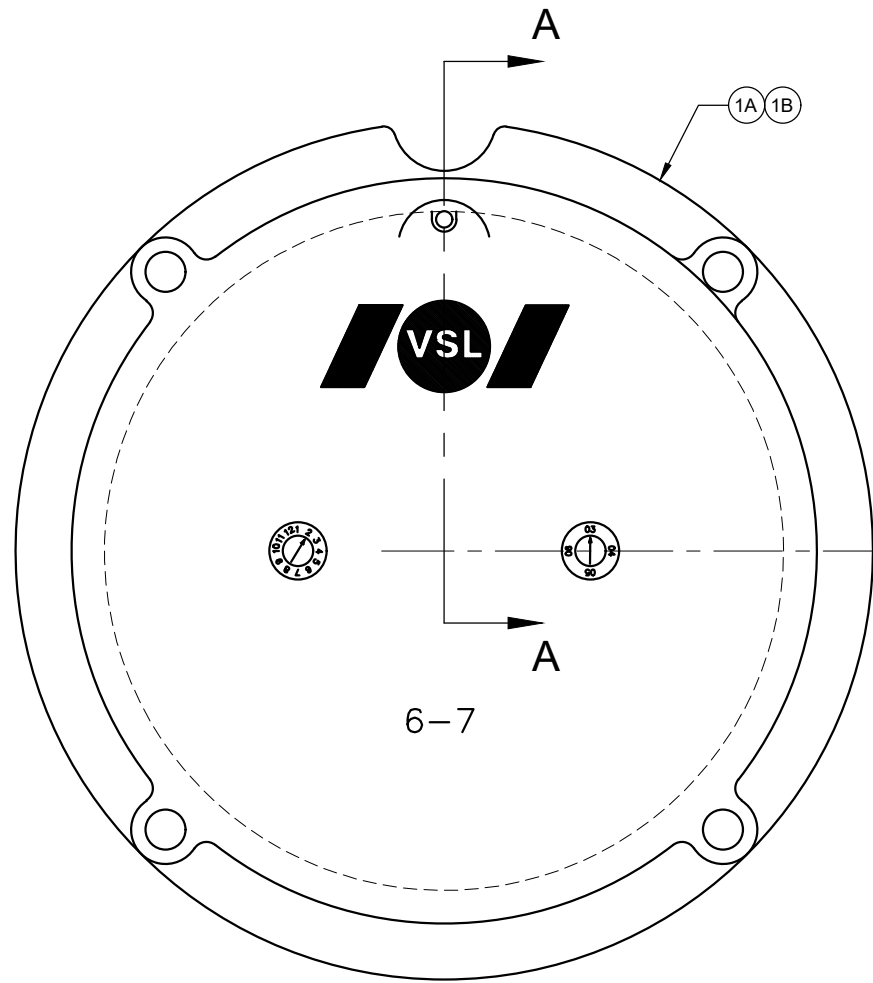
A365A

structural TECHNOLOGIES

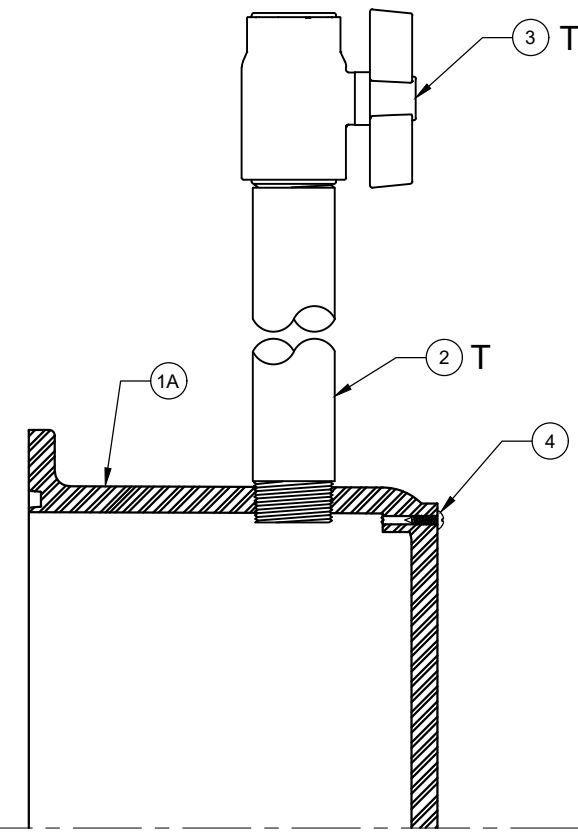
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

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

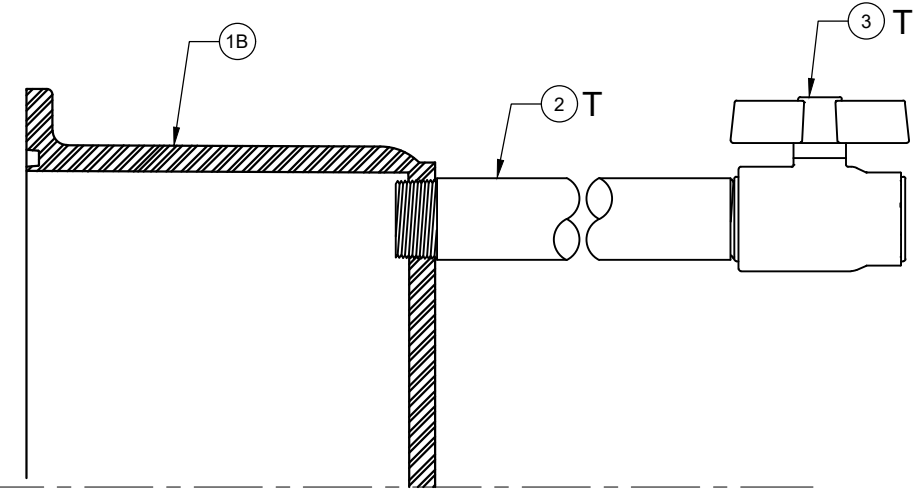
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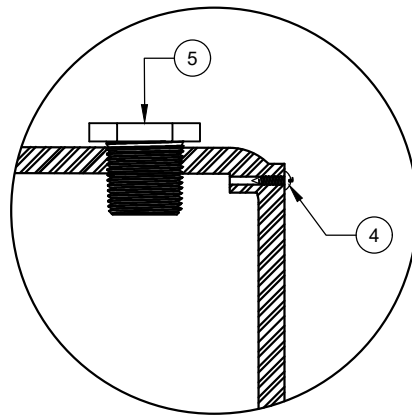
ECI 6-7 GROUT CAP



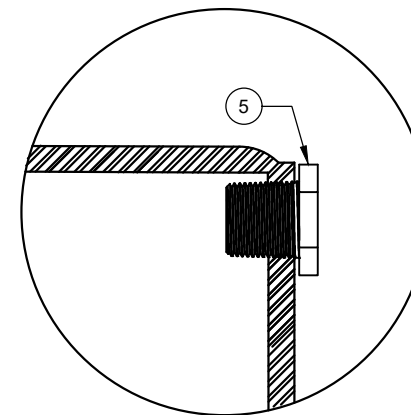
TOP PORT



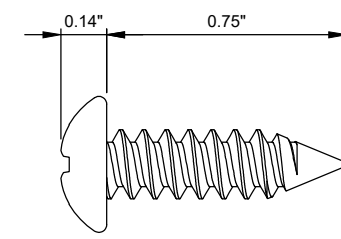
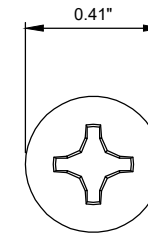
FRONT PORT



AFTER GROUT



AFTER GROUT



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

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-7 GROUT CAP W/ 3/4" VERT. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC0701	C788
1B	1	ECI 6-7 GROUT CAP W/ 3/4" HORIZ. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC0701V	C802
2	1	3/4" NPT PVC NIPPLE	SCH 80 WHITE PVC	-	C887
3	1	1/4 TURN PVC BALL VALVE W/ 3/4" FNPT	SCH 80 WHITE PVC	02DT01916	C720
4	1	3/16" PAN HEAD SCREW	(316L) STAINLESS PER ASTM A240	02WX7001	A367
5	1	3/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01913	C787

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

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: SYSTEM

SHEET NO:

TITLE: ECI 6-7 GROUT CAP ALTERNATIVE VENT DETAIL

SCALE: NTS

A367

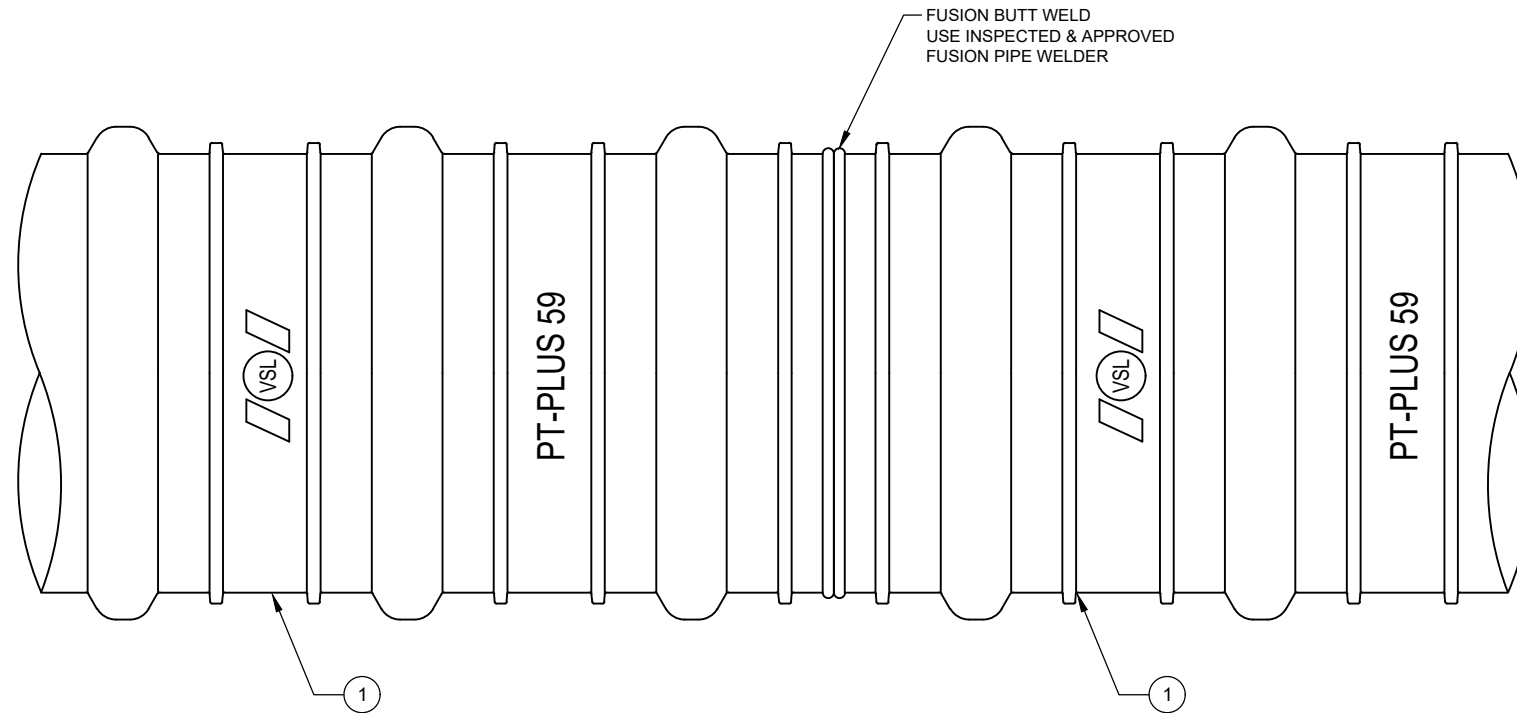
structural TECHNOLOGIES

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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

APPROVED FOR CONSTRUCTION
 NO

CDL ZX 29JAN2020
 BY CHK DATE

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\ECI 6-7 Grouted System



ELEVATION VIEW

- NOTES:
- 59MM PT-PLUS DUCT MEETS FDOT 960 SPEC.
 - SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX.
 - ADJUST THE LOCATION OF THE LAST FUSION BUTT WELD SO THAT THE FINAL DUCT COUPLER CONNECTION CAN BE APPLIED PROPERLY.

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	2	DUCT, WHT PP, 59 MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412	C684A

PROJECT INFORMATION:		SYSTEM DRAWING		TITLE:	
		59MM PT-PLUS BUTT WELD CONNECTION		NTS	
PROJECT NO:		SYSTEM		SCALE:	
SHEET NO:		A378		DATE	
APPROVED FOR CONSTRUCTION		CDL ZX		29JAN2020	
DESCRIPTION		BY		CHK	
NO		APPROVED FOR CONSTRUCTION		DATE	
NO		DESCRIPTION		DATE	

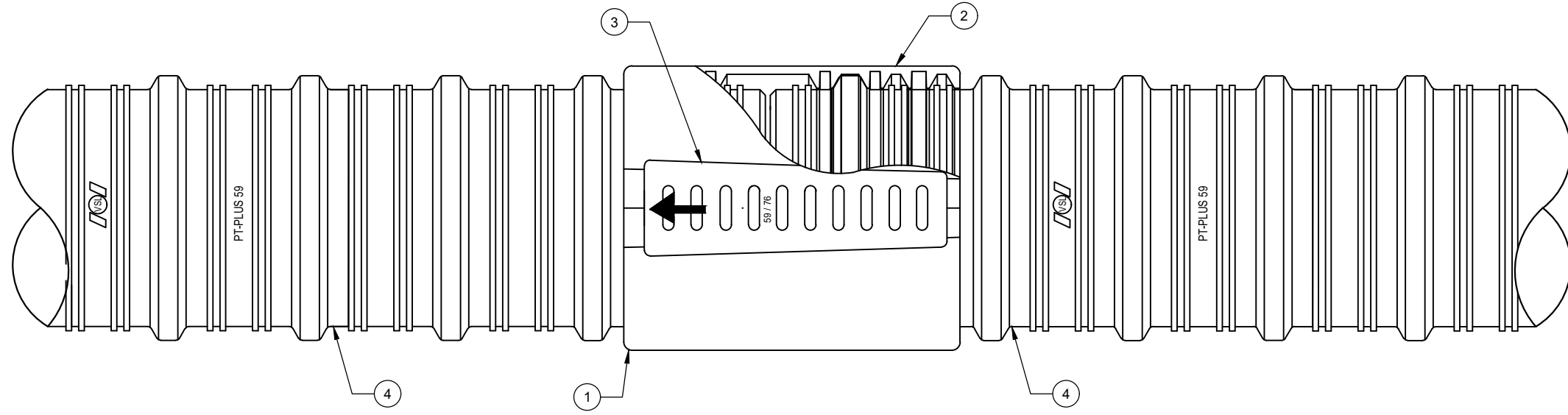
structural TECHNOLOGIES

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

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

PHONE: (410) 850-7000
www.structuraltechnologies.com

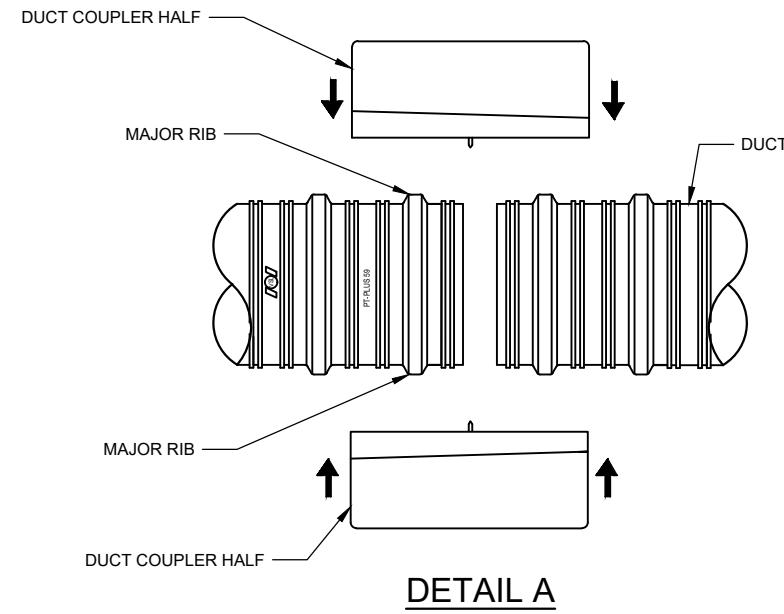
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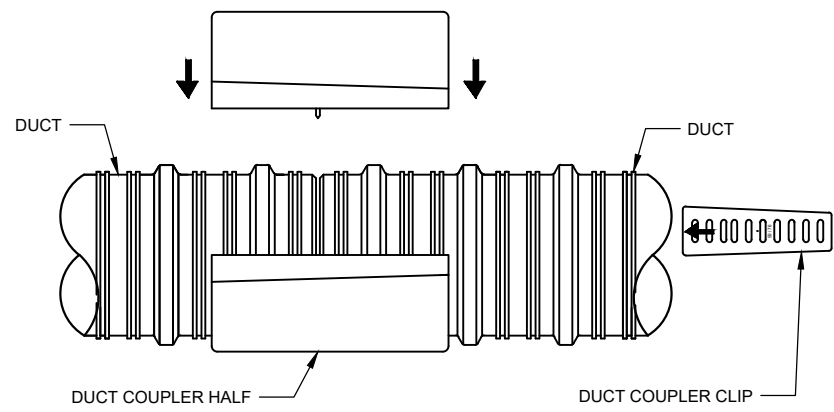
ELEVATION VIEW

INSTALLATION PROCEDURES

1. CUT DUCT HALF WAY BETWEEN 2 MAJOR RIBS SEE DETAIL A
2. INSTALL DUCT INTO COUPLER HALF. PLACE COUPLER HALF OVER MAJOR RIB. SEE DETAIL B
3. PLACE SECOND COUPLER HALF OVER DUCT, USING INTERLOCKING PINS TO CENTER SECOND COUPLER HALF
4. PARTIALLY INSTALL COUPLER CLIPS IN DIRECTION INDICATED BY ARROWS SHOWN ON COUPLER HALF.
5. INSURE BOTH DUCTS ARE SECURED IN COUPLER.
6. FINISH INSTALLATION OF CLIPS.



DETAIL A



DETAIL B

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	2	COUPLER HALF, 59 MM PT-PLUS	BLACK POLYPROPYLENE PER ASTM D4101	02DTCH059	C816
2	2	SEAL (INCLUDED IN COUPLER HALF)	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02DTCH059	C816
3	2	COUPLER CLAMP, 59 MM PT-PLUS	BLACK POLYPROPYLENE PER ASTM D4101	02DT0029	C628
4	-	DUCT, WHT PP, 59 MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412	C684A

* SEE SHEET C816 FOR COUPLER HALF, 59 MM PT-PLUS VENTED

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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) 860-7000
structuralltechnologies.com

APPROVED FOR CONSTRUCTION
CDL ZX
NO

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
TYPICAL 59MM PT-PLUS DUCT TO DUCT CONNECTION

PROJECT NO:
SYSTEM

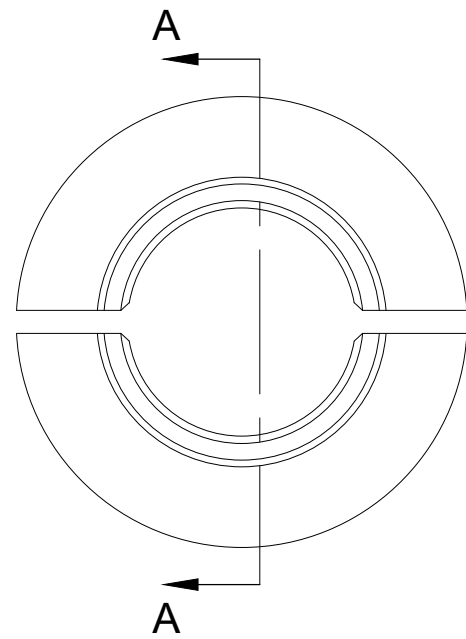
SCALE:
NTS

DATE
29JAN2020

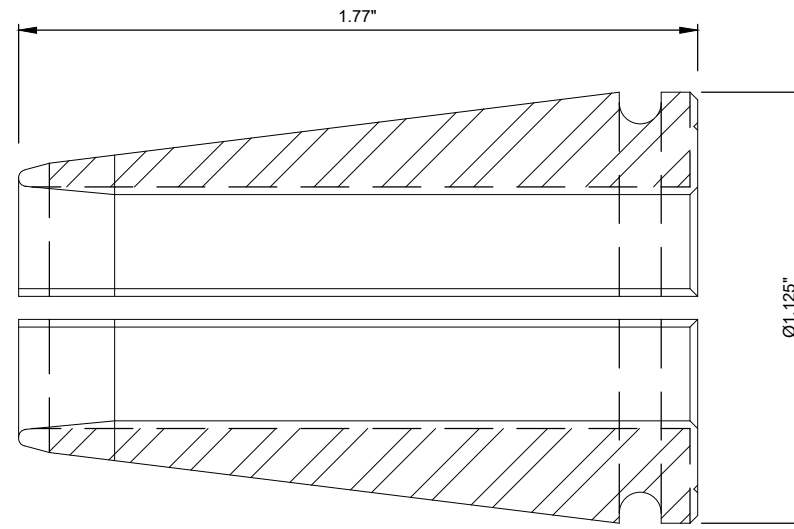
SHEET NO:
A438

DESCRIPTION

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 #
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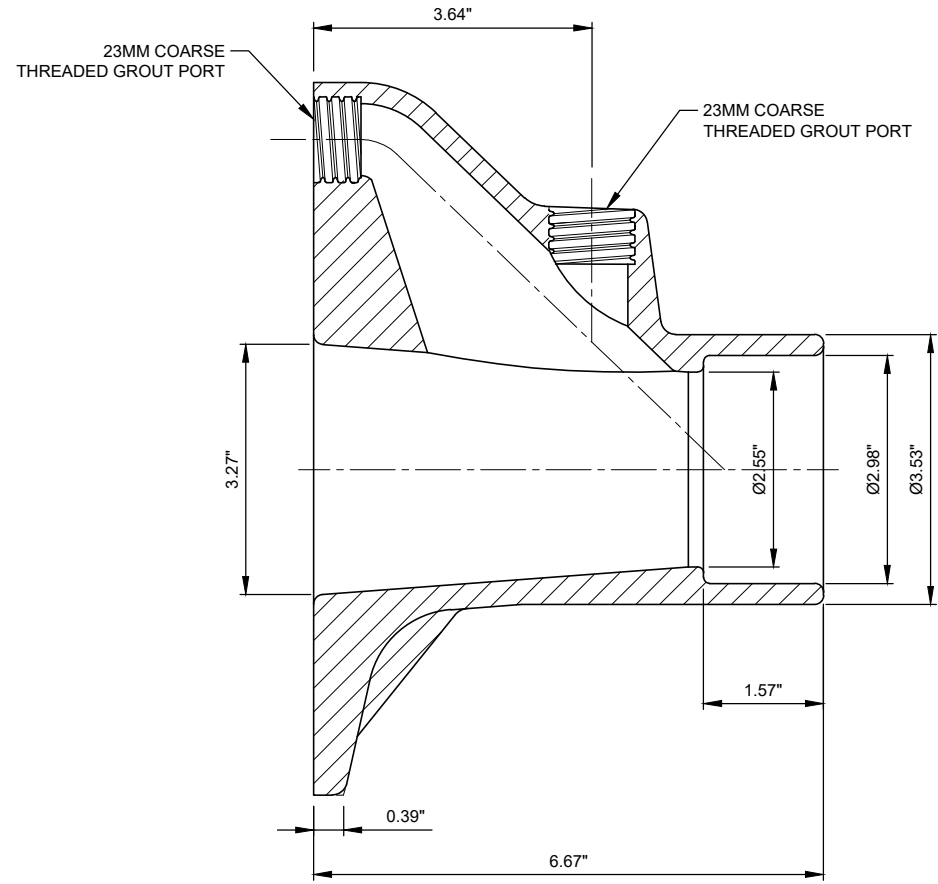
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SHEET NO:	C218
TITLE:	0.6" MULTIWEDGE TYPE 1.6G

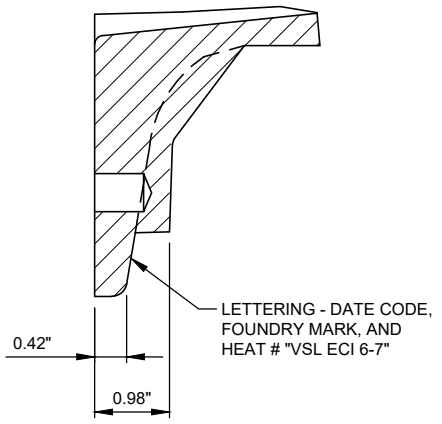
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

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

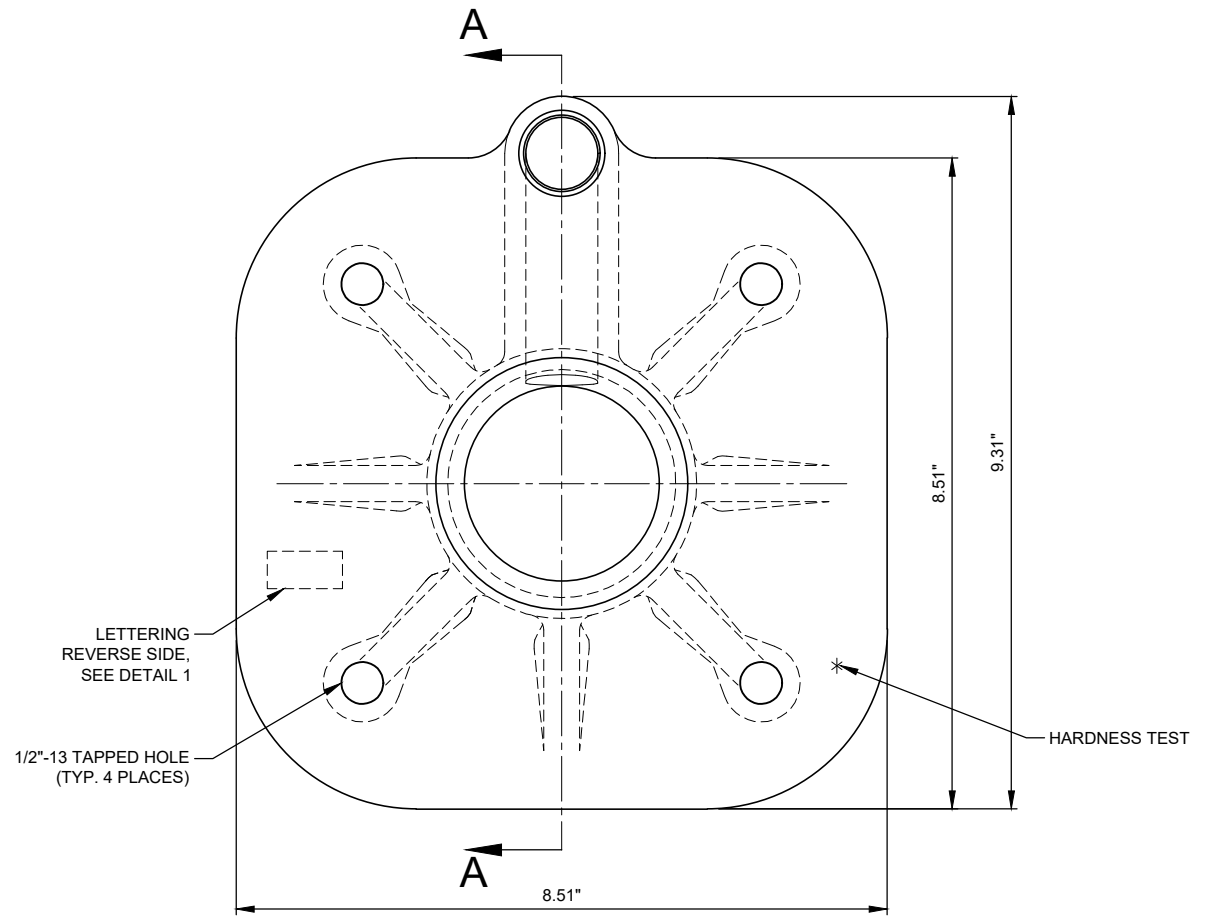
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SECTION A-A



DETAIL 1



BACK VIEW

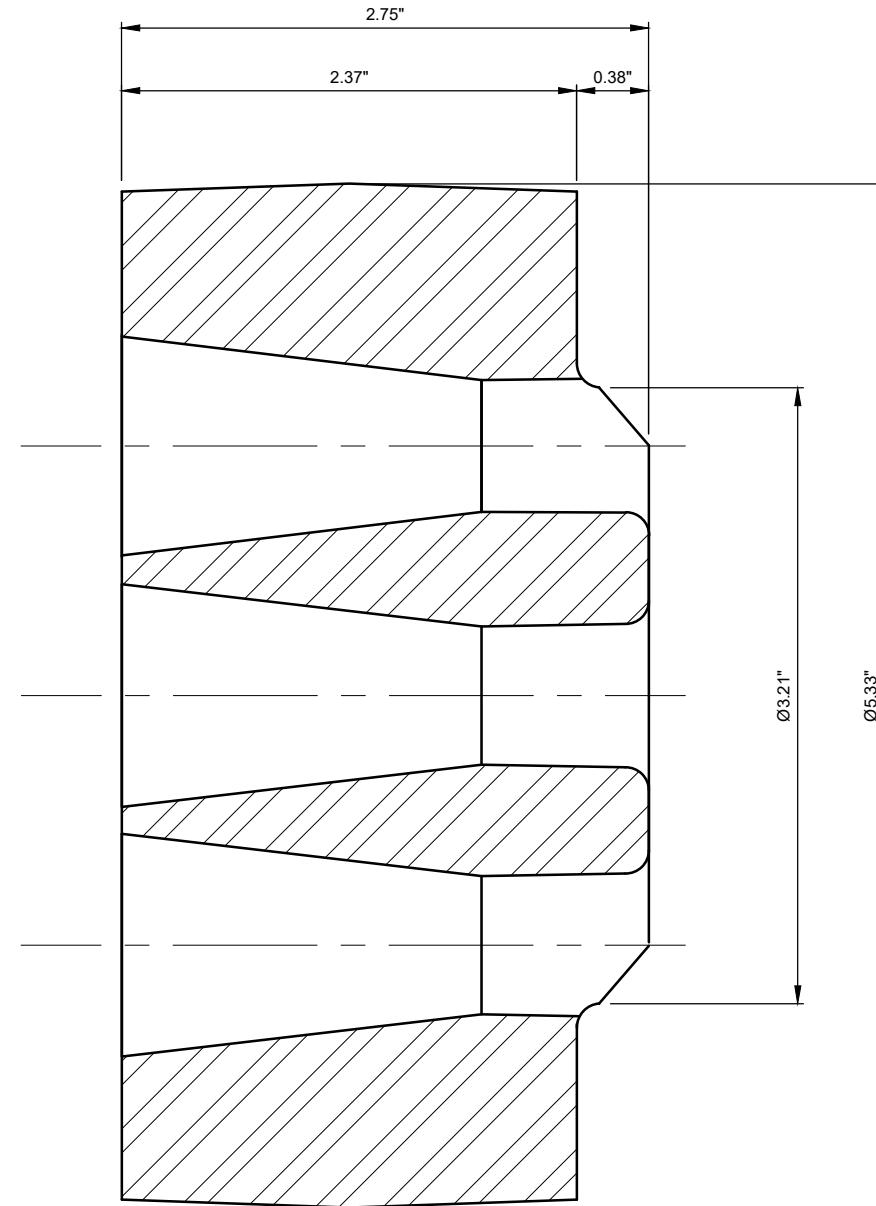
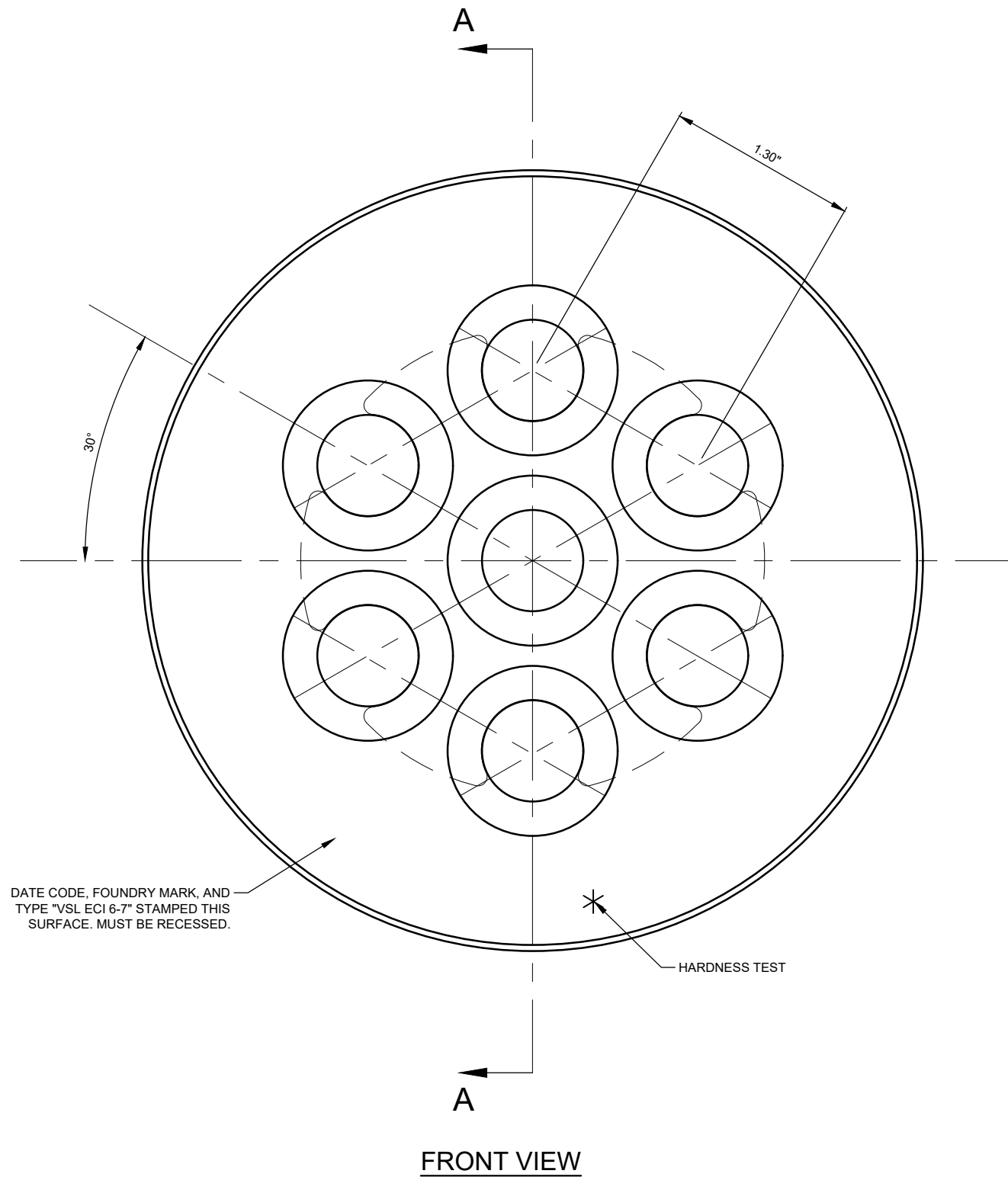
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-7 BEARING PLATE GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0036

<p>structural TECHNOLOGIES</p> <p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL</p> <p>10150 OLD COLUMBIA RD COLUMBIA, MD 21046</p> <p>PHONE: (410) 860-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>ECI 6-7 BEARING PLATE</p>		DESCRIPTION	NO	DATE
<p>PROJECT NO: SYSTEM</p> <p>SHEET NO: C552</p>		SCALE: NTS		

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



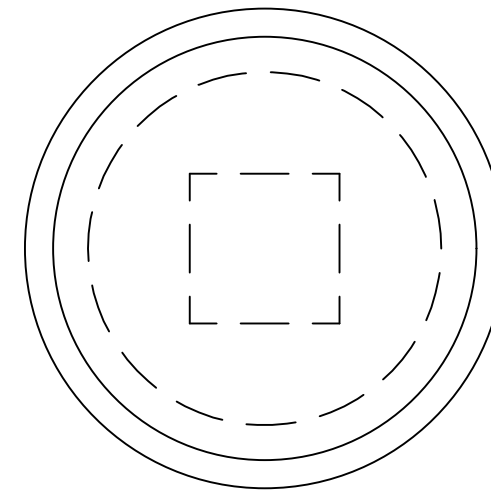
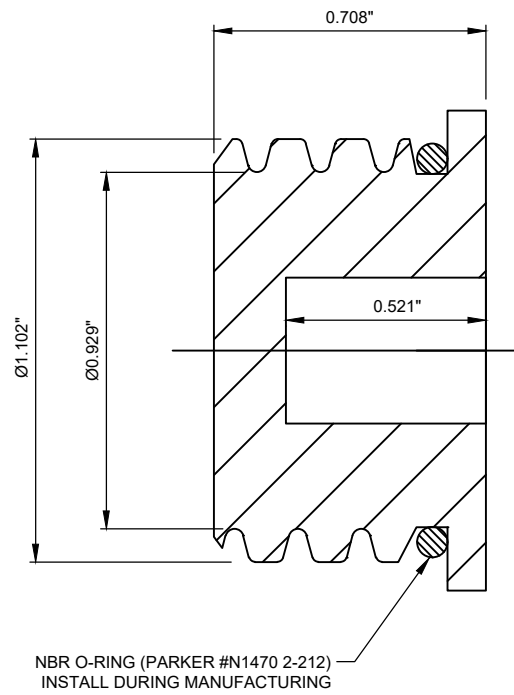
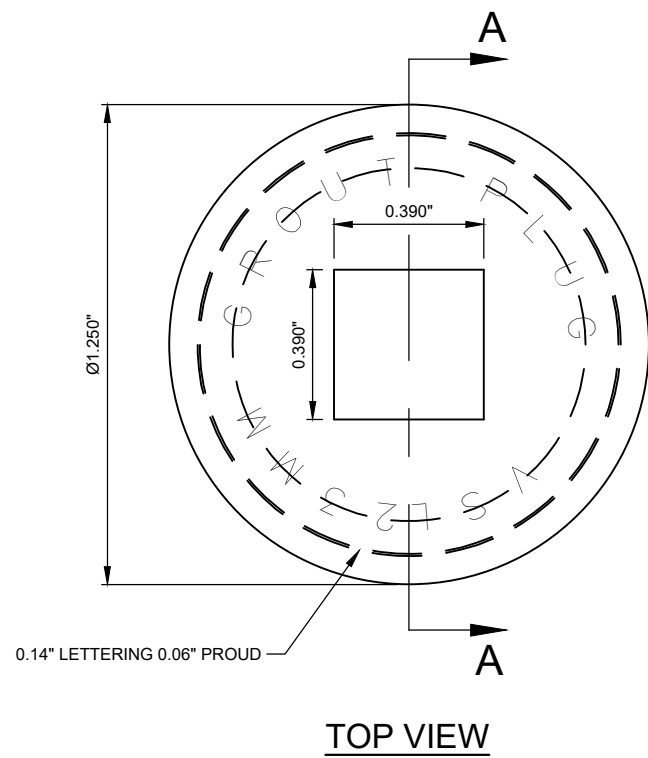
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-7 ANCHOR HEAD	IRON GR 80-55-06 PER ASTM A536	02AH0036

PROJECT INFORMATION:		PROJECT NO:	SYSTEM	SHEET NO:	C555
TITLE:		ECI 6-7 ANCHOR HEAD			
SCALE:		NTS			
APPROVED FOR CONSTRUCTION		CDL	ZX	29JAN2020	DATE
DESCRIPTION		NO	BY	CHK	DATE
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 860-7000 structuraltechnologies.com					

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Grouting Accessories



TOP VIEW

SECTION A-A

BOTTOM VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
BEARING PLATE GROUT PLUG 23MM	HDPE BLACK PER ASTM D3350	02DT0341

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
BEARING PLATE GROUT PLUG 23MM

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
C583

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

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

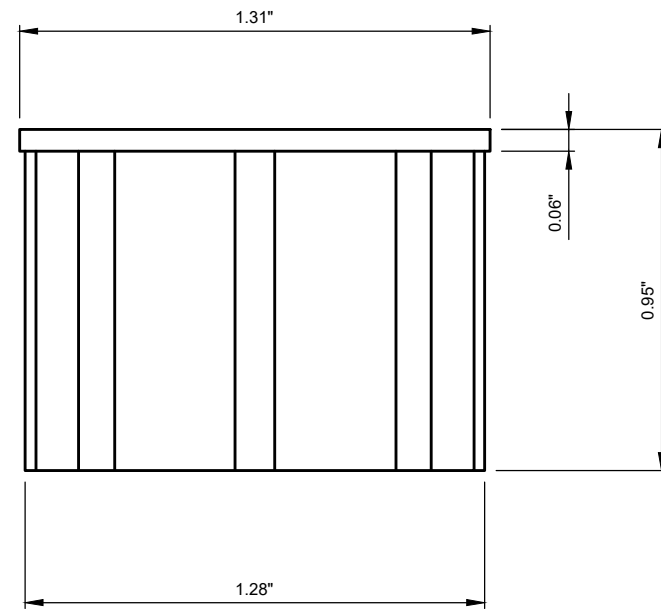
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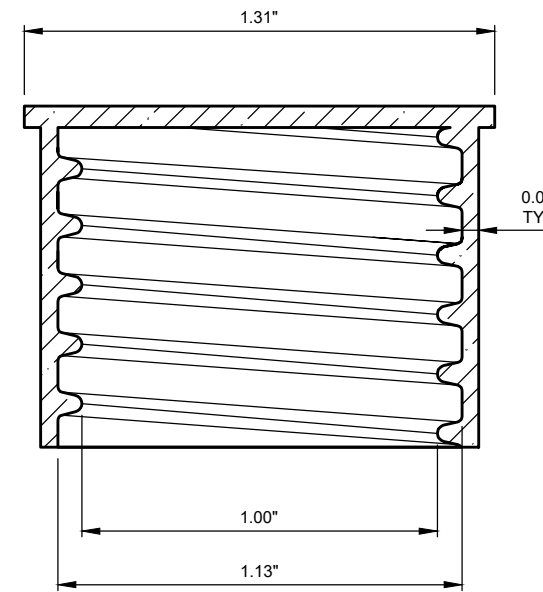
DESCRIPTION

29JAN2020

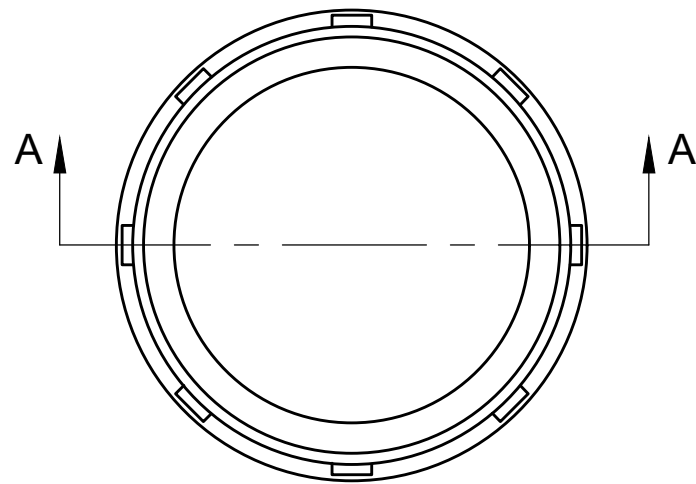
ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Grouting Accessories



FRONT VIEW



SECTION A-A



TOP VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
23MM GROUT HOSE CAP	HDPE BLACK PER ASTM D3350	02DT0314

PROJECT INFORMATION:

SYSTEM DRAWING

23MM GROUT HOSE CAP

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C586

NO

APPROVED FOR CONSTRUCTION

BY
CDL ZX

DESCRIPTION

CHK

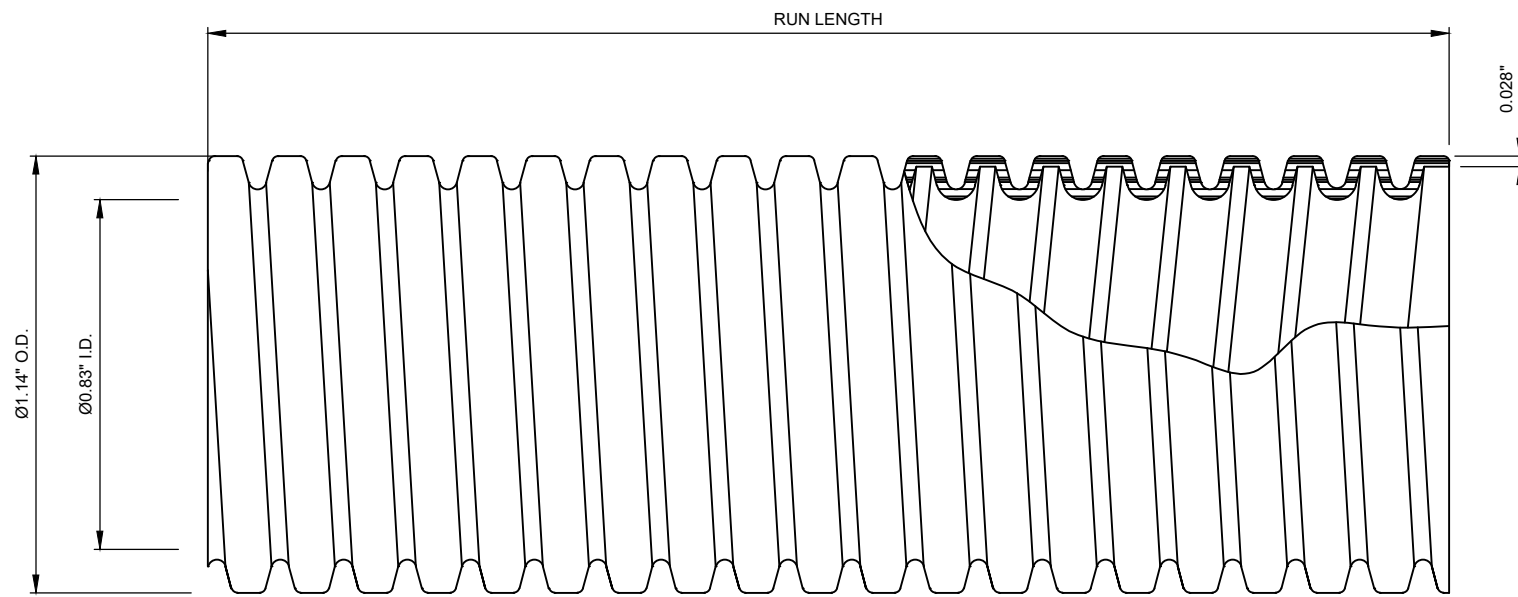
DATE

29JAN2020

structural TECHNOLOGIES

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



SIDE VIEW

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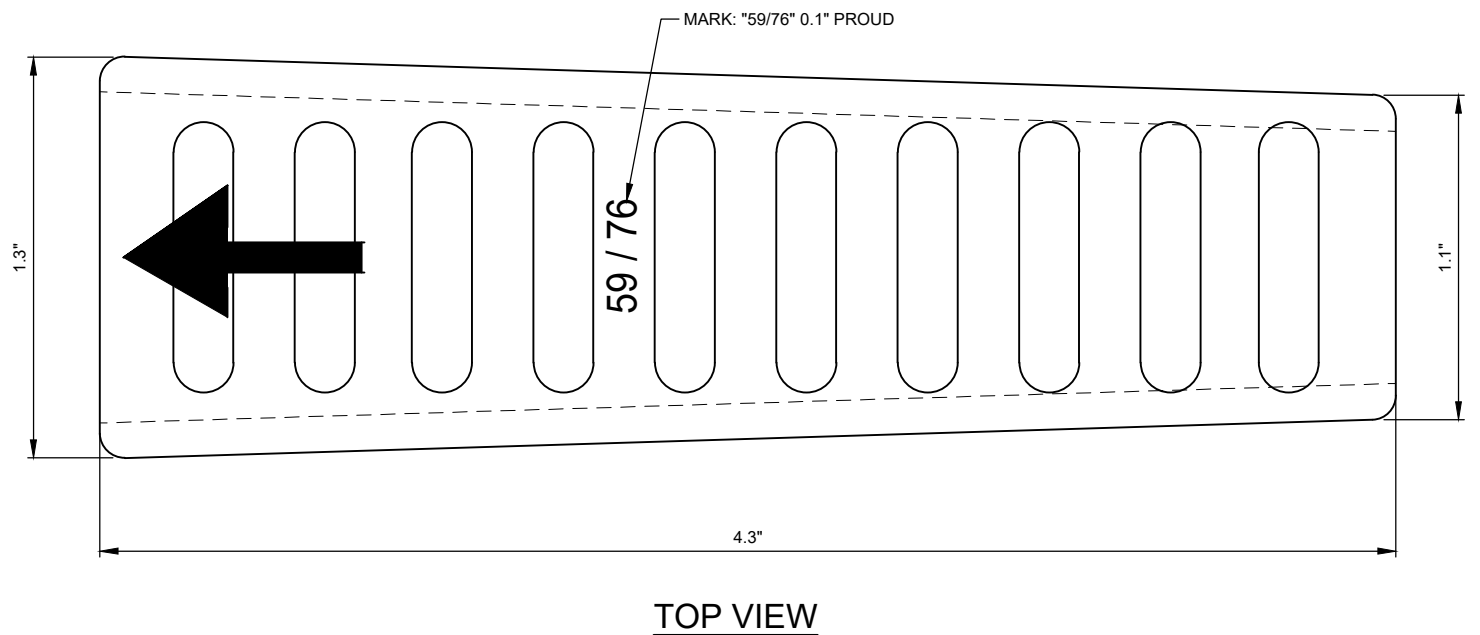
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23MM GROUT HOSE	HDPE BLACK PER ASTM D3350	02DT0310

PROJECT INFORMATION:

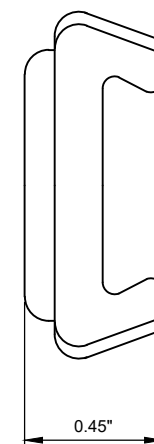
PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	23MM GROUT HOSE
SCALE:	NTS

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 PHONE: (410) 860-7000
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APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO	NO	NO



TOP VIEW



SIDE VIEW

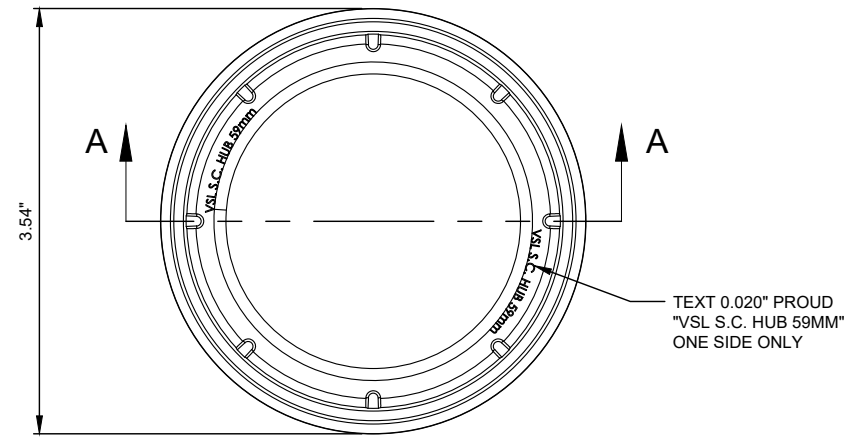
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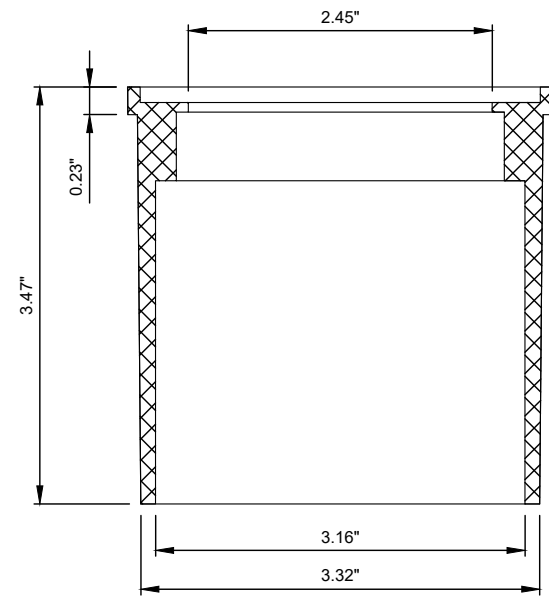
DESCRIPTION	MATERIAL	INVENTORY #
59/76MM PT-PLUS CLIP	BLACK POLYPROPYLENE PER ASTM D4101	02DT0029

PROJECT INFORMATION: SYSTEM DRAWING		PROJECT NO:	SYSTEM	SCALE:	NTS
		SHEET NO:			C628
structural TECHNOLOGIES <small>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL</small> STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD CORPORATE OFFICE COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuralltechnologies.com		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020	
		DESCRIPTION	BY	CHK	
		NO	NO	NO	

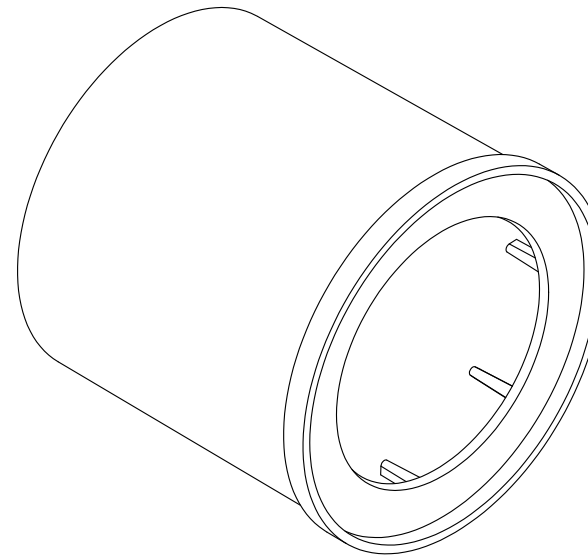
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TOP VIEW



SECTION A-A



3D VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
59MM HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC05901

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
59MM HUB

PROJECT NO:
SYSTEM

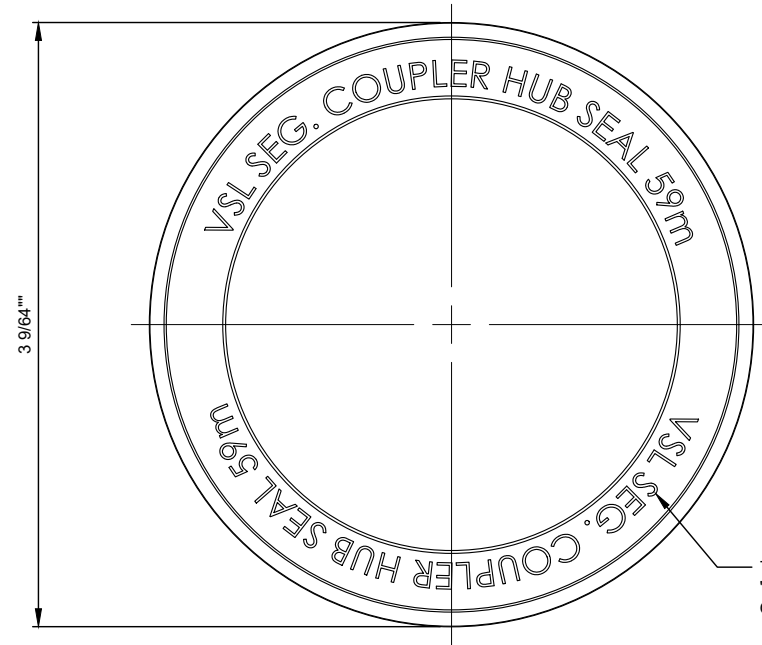
SHEET NO:
C667

SCALE:
NTS

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

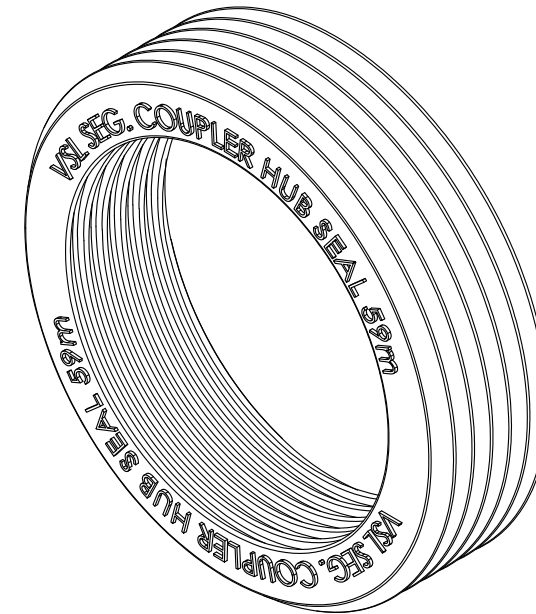
structural TECHNOLOGIES
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ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

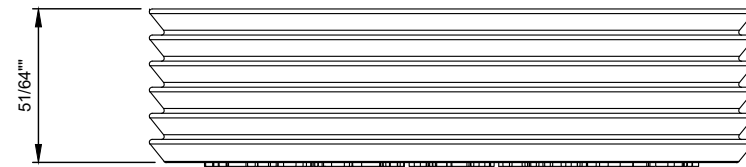


TOP VIEW

TEXT 0.020" PROUD
"VSL SEG. COUPLER HUB SEAL 59MM"
ONE SIDE ONLY



3D VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
59MM HUB SEAL	SANTOPRENE PER FDOT TABLE 2.2.1.7-2	02SC05902

PROJECT INFORMATION:

SYSTEM DRAWING

59MM HUB SEAL

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C668

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

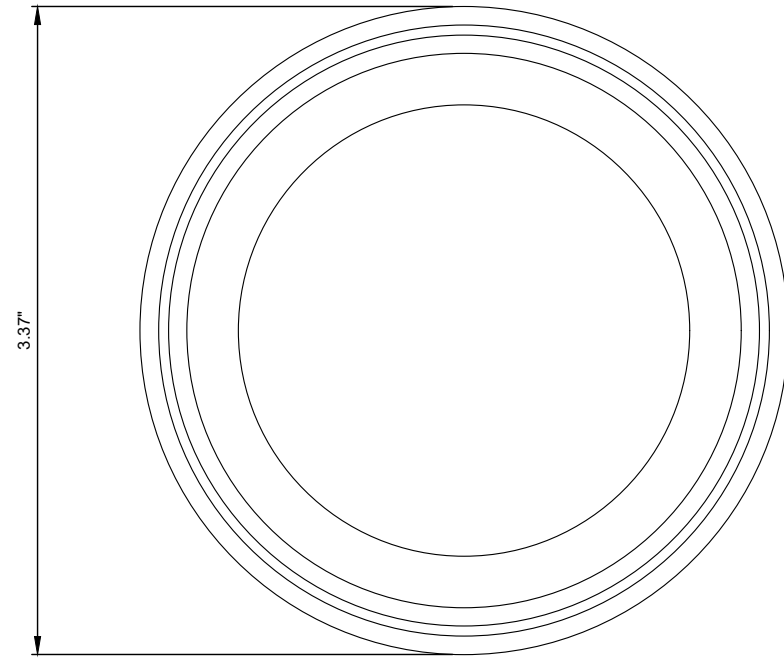
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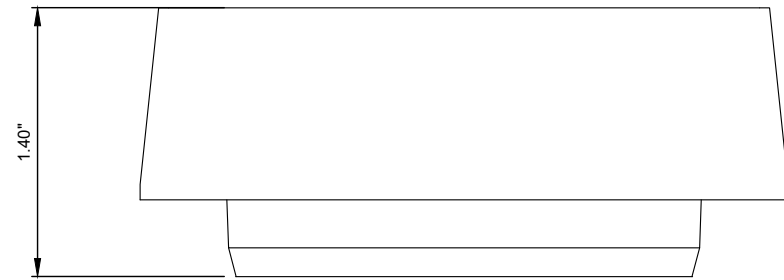
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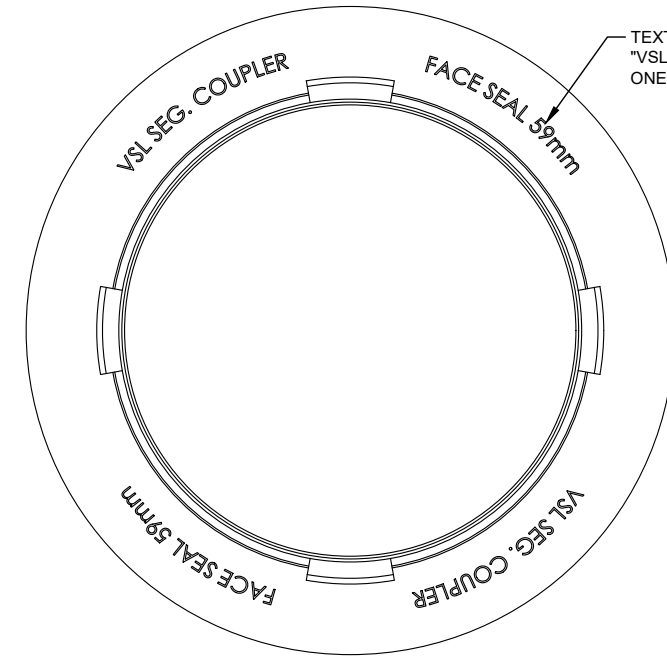
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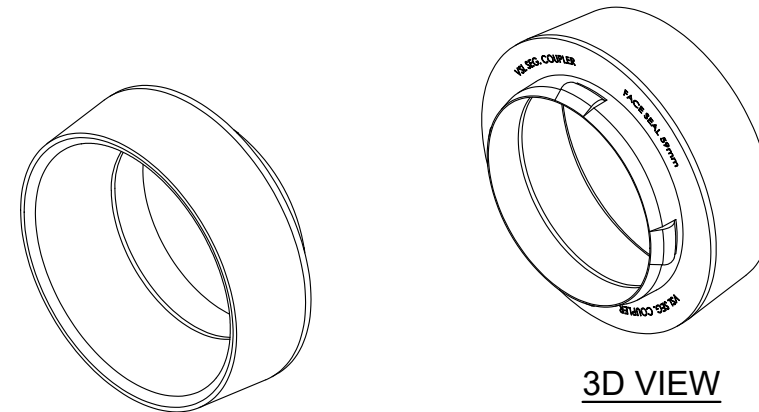
TOP VIEW



SIDE VIEW



BOTTOM VIEW



3D VIEW

3D VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
59MM FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC05903

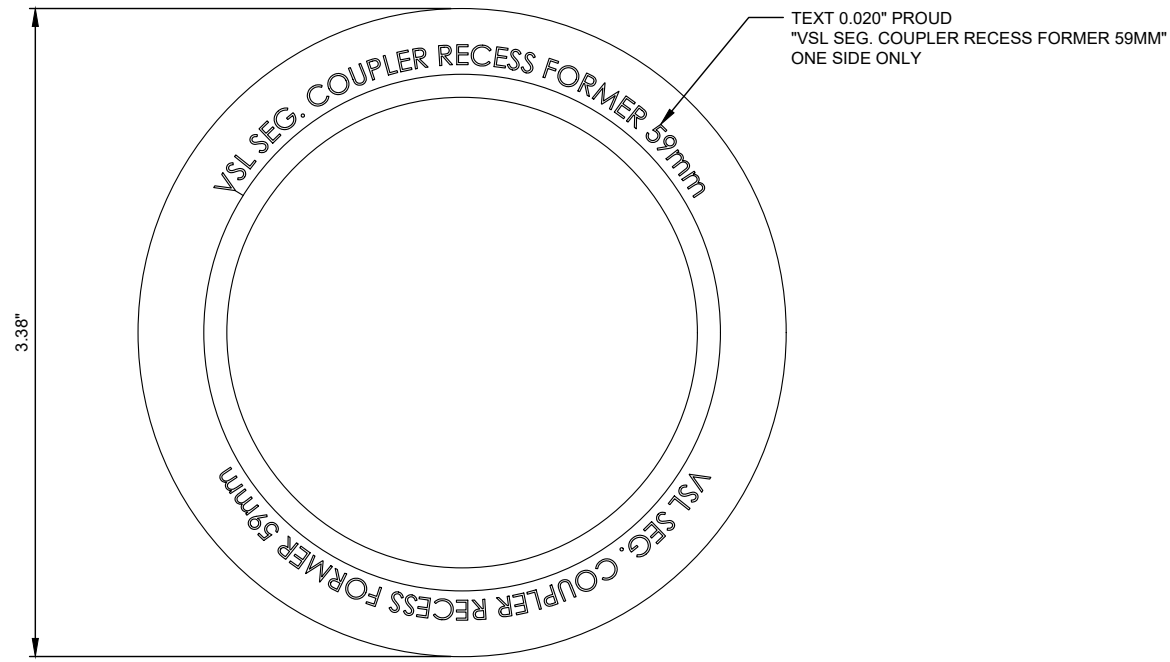
APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO		DATE

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 PHONE: (410) 850-7000
 structuraltechnologies.com

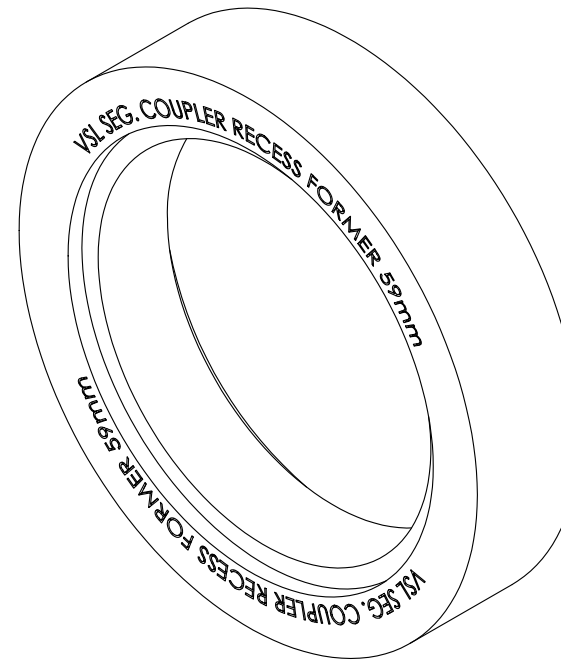
STRUCTURAL TECHNOLOGIES, LLC
 CORPORATE OFFICE
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046

SYSTEM DRAWING	59MM FACE SEAL
PROJECT NO: SYSTEM	SCALE: NTS
SHEET NO: C669	

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



TOP VIEW



3D VIEW



SIDE VIEW

NOTE: THIS IS A TEMPORARY PART.

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DESCRIPTION	MATERIAL	INVENTORY #
59MM RECESS FORMER	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC05907

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:
SYSTEM

SHEET NO:

59MM RECESS FORMER

SCALE:
NTS

C670

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

BY

CHK

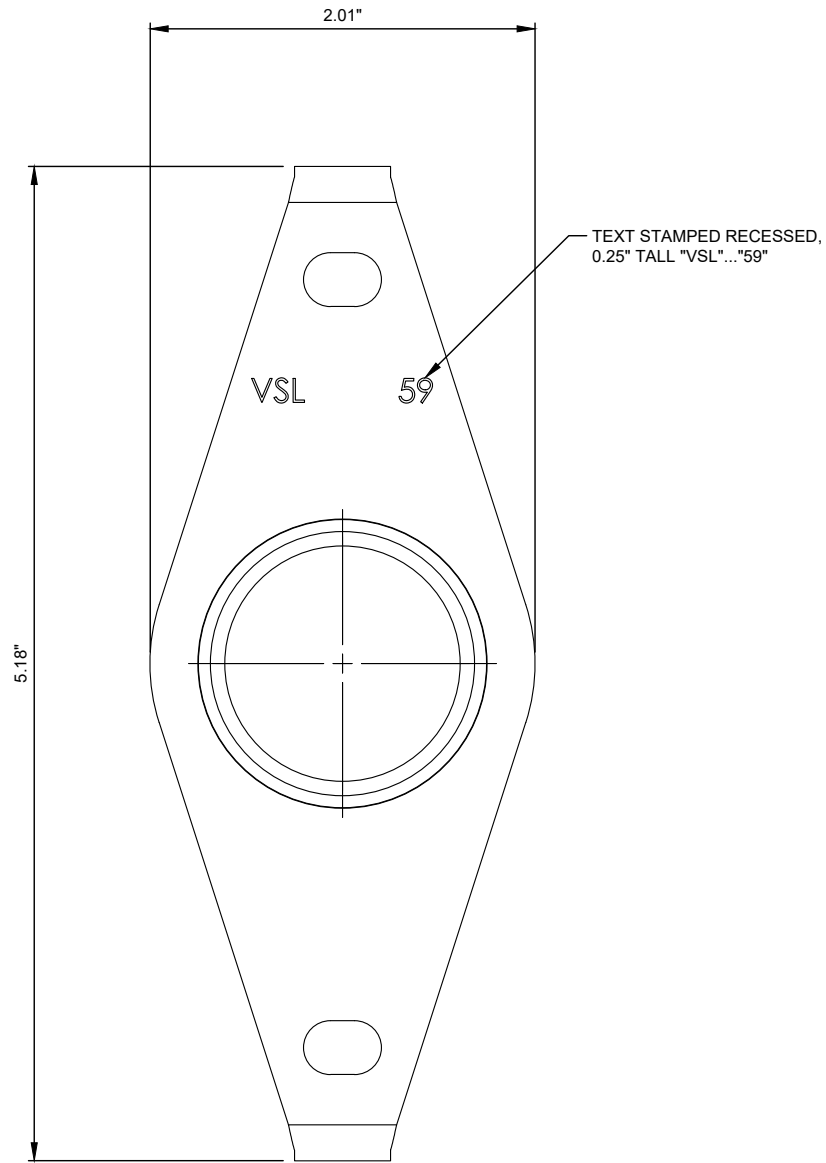
DATE

29JAN2020

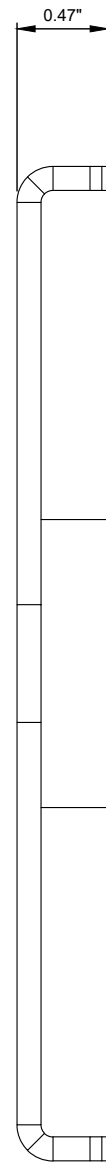
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 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

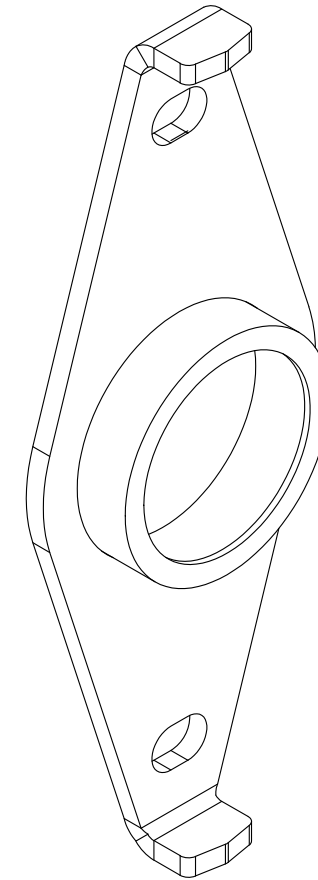
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



FRONT VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

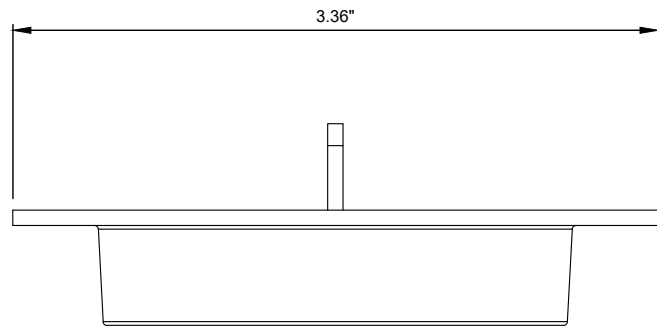
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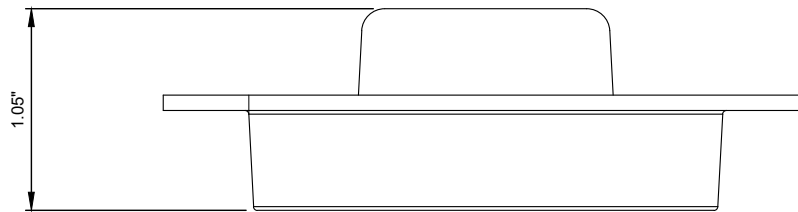
DESCRIPTION	MATERIAL	INVENTORY #
59MM FORM TOOL	STEEL PER ASTM A36	02SC05905

<p>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</p>		NO	NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	NO	DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p>		<p>SYSTEM DRAWING</p>		<p>TITLE:</p>		
<p>PROJECT NO:</p>		<p>SYSTEM</p>		<p>SCALE:</p>		
<p>SHEET NO:</p>		<p>59MM FORM TOOL</p>		<p>NTS</p>		
				<p>C672</p>		

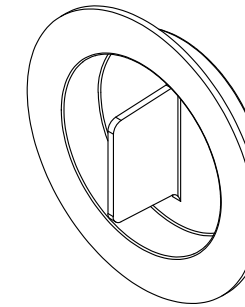
ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



FRONT VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

DESCRIPTION	MATERIAL	INVENTORY #
59MM PROTECTIVE CAP	LDPE	02SC05906

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PROJECT INFORMATION:

SYSTEM DRAWING

59MM PROTECTIVE CAP

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C673

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

BY

CHK

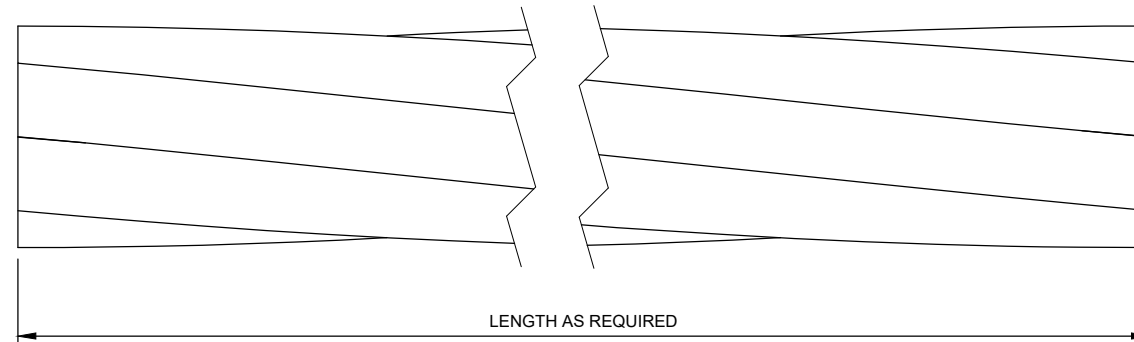
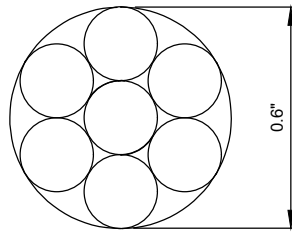
DATE

29JAN2020

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

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\Strand



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

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PROJECT INFORMATION:

SYSTEM DRAWING

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

PROJECT NO:
SYSTEM

SHEET NO:

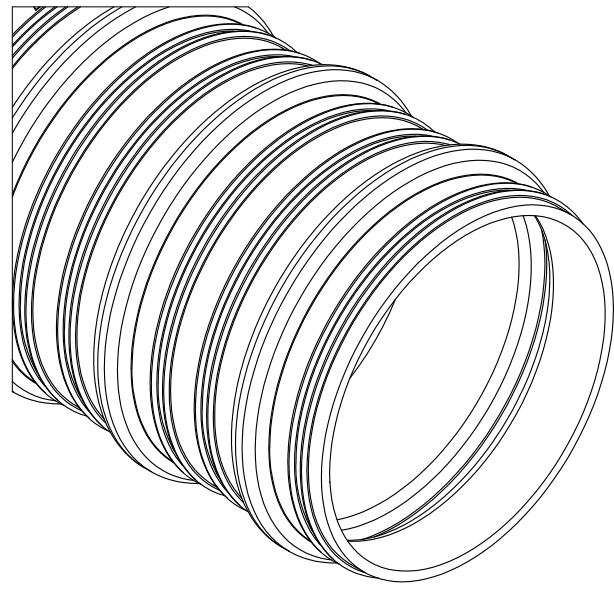
SCALE:
NTS

C674

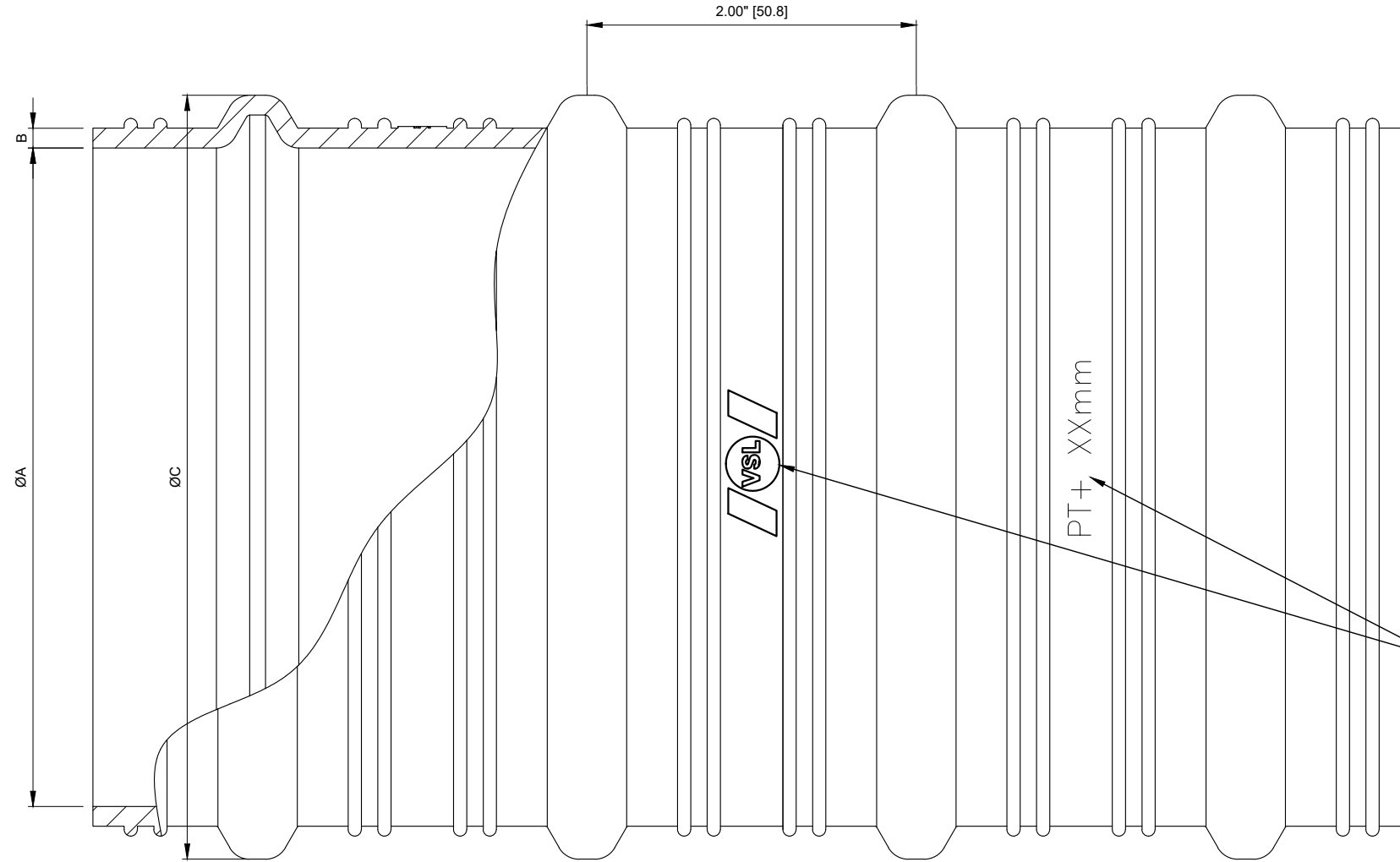
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

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

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crafting Accessories



3D VIEW



SIDE VIEW

MOLDED NOTES:
 VSL LOGO, REPEAT EVERY 6'-0"
 REPLACE "XX" WITH ACTUAL DUCT SIZE
 (48, 59, 76, 85, 100, 115, 130, 150)

PRINTED NOTES:
 A PRINTED RUNNING LABEL MAY BE USED
 WITH OR INSTEAD OF MOLDED NOTES.
 A RUNNING LABEL WILL INCLUDE AT A
 MINIMUM:
 - VSL LOGO
 - DUCT SIZE
 - DATE OR BATCH CODE

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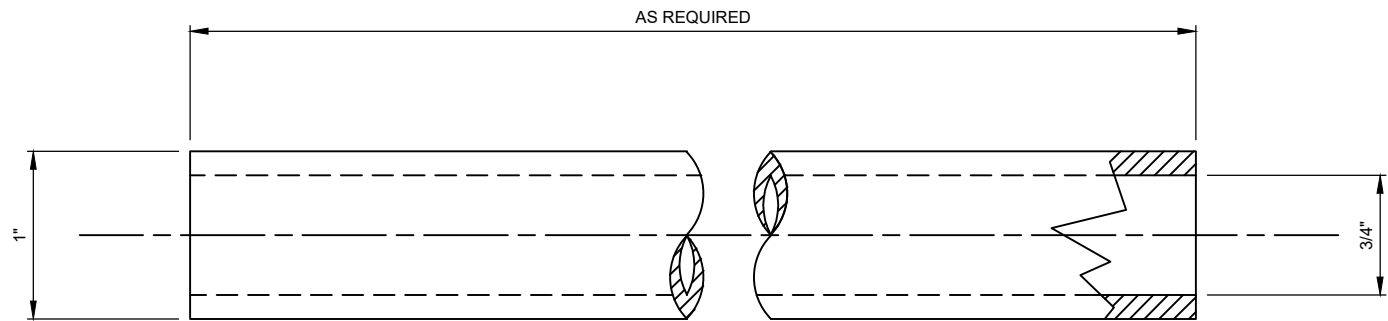
DUCT TYPE	ØA - DUCT INNER DIAMETER, INCHES (MM)	B - WALL THICKNESS NOMINAL, INCHES (MM)	ØC - DUCT MAJOR DIAMETER NOM., INCHES (MM)	MATERIAL	INVENTORY #
59MM	2.32 (59)	0.1 (2.54)	2.87 (73)	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412

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

structural TECHNOLOGIES
 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	VSL 59MM PT-PLUS ROUND DUCT
TITLE:	
PROJECT NO: SYSTEM	SCALE: NTS
SHEET NO:	C684A

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



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

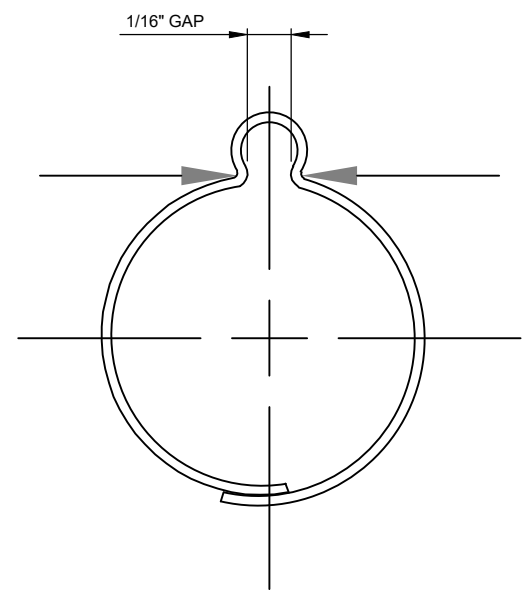
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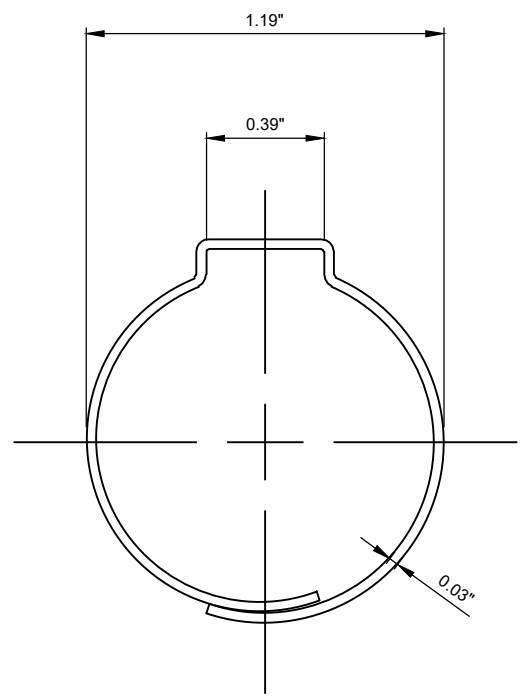
DESCRIPTION	MATERIAL	INVENTORY #
3/4" SMOOTH HOSE	HDPE BLACK PER ASTM D3350	02DT01901

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		NO	DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>3/4" SMOOTH HOSE</p>		<p>PROJECT NO: SYSTEM</p> <p>SHEET NO: NTS</p> <p>SCALE: NTS</p> <p>C685</p>			

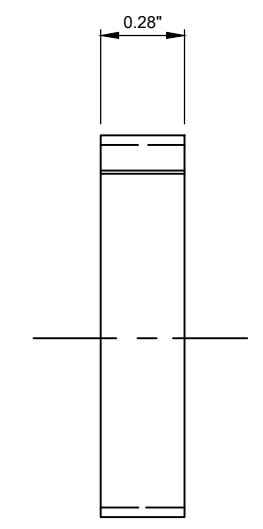
ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



INSTALLED
[AFTER CRIMPING]



OPEN
[AS SUPPLIED]



SIDE VIEW

INSTALLATION INSTRUCTIONS:

1. SLIDE BAND OVER HOSE AND ALIGN OVER BARBS ON FITTING
2. CRIMP EAR ON BAND WITH PLIERS USING EITHER DIAGONAL CUTTERS OR END NIPPERS

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" ONE EAR BAND CLAMP	316 STAINLESS STEEL PER ASTM A240	02DT01905

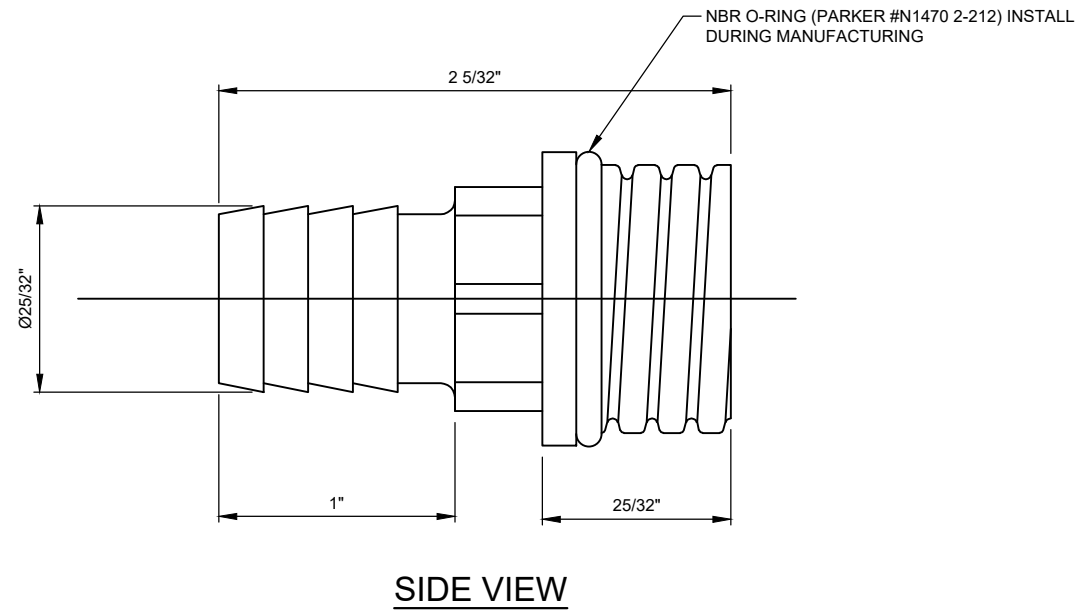
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	3/4" ONE EAR BAND CLAMP

structural TECHNOLOGIES
 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

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

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



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" HOSE BARB TO 23MM FITTING	BLACK POLYPROPYLENE PER ASTM D4101	02DT01903

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
3/4" HOSE BARB TO 23MM FITTING

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C692

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

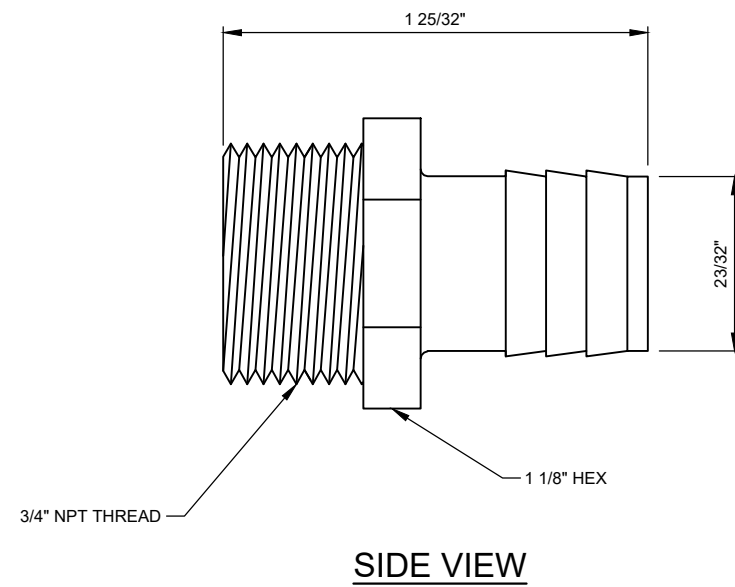
DATE

29JAN2020

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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" HOSE BARB TO 3/4" NPT FITTING	BLACK POLYPROPYLENE PER ASTM D4101	02DT01908

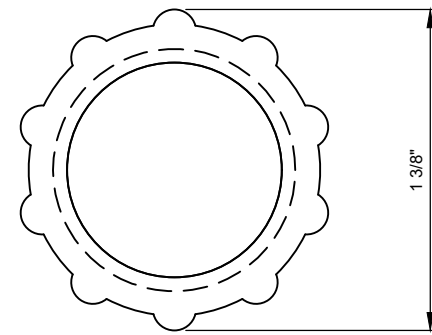
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	3/4" HOSE BARB TO 3/4" NPT FITTING
SHEET NO:	C694

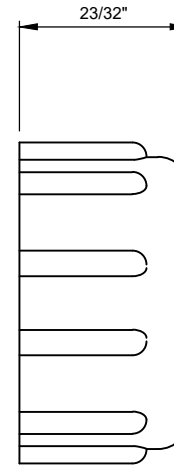
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

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) 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

SHEET NO:

SCALE:
NTS

C701

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

DATE

29JAN2020

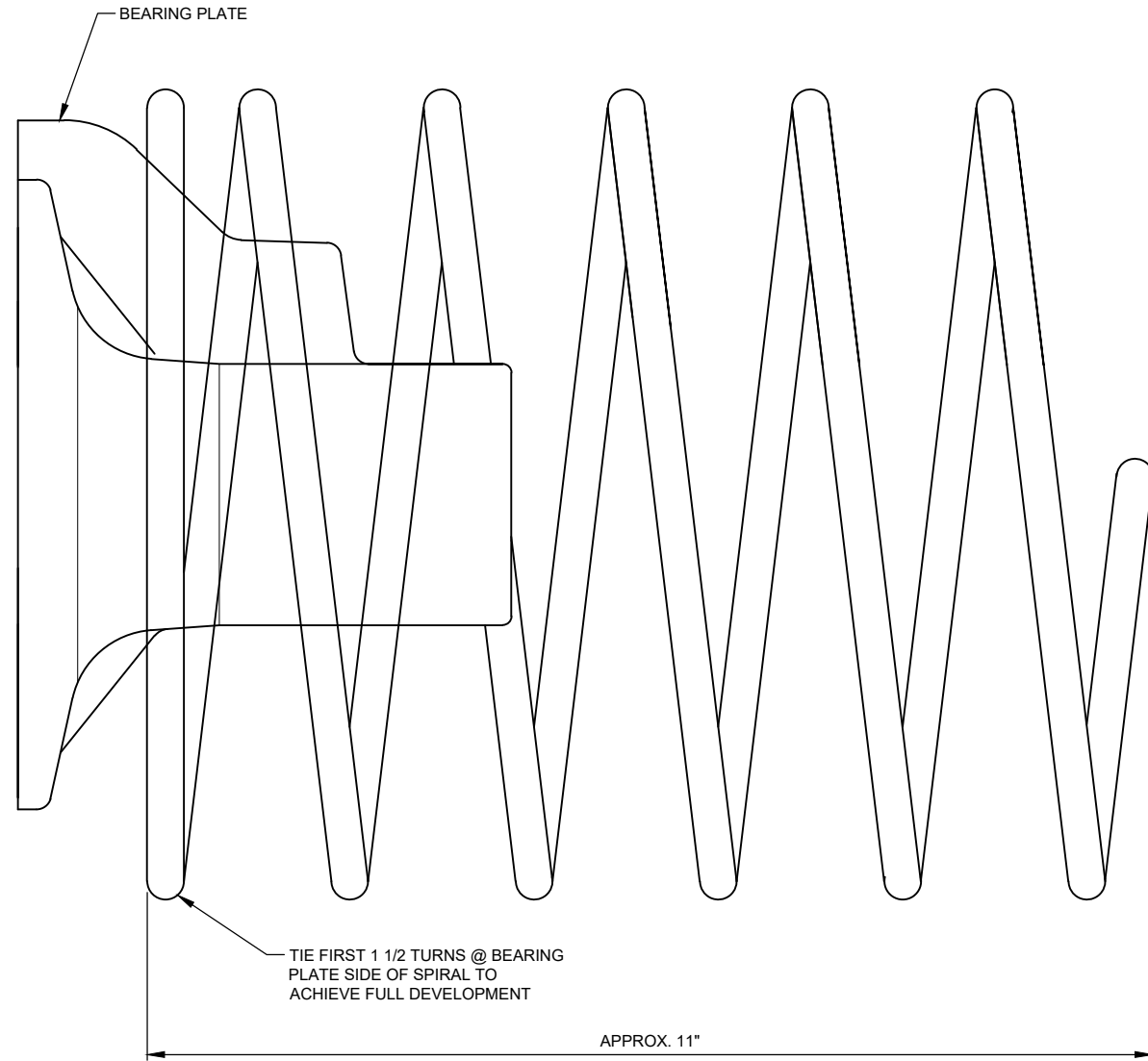
PHONE: (410) 860-7000
structuraltechnologies.com

10150 OLD COLUMBIA RD
COLUMBIA, MD 21046

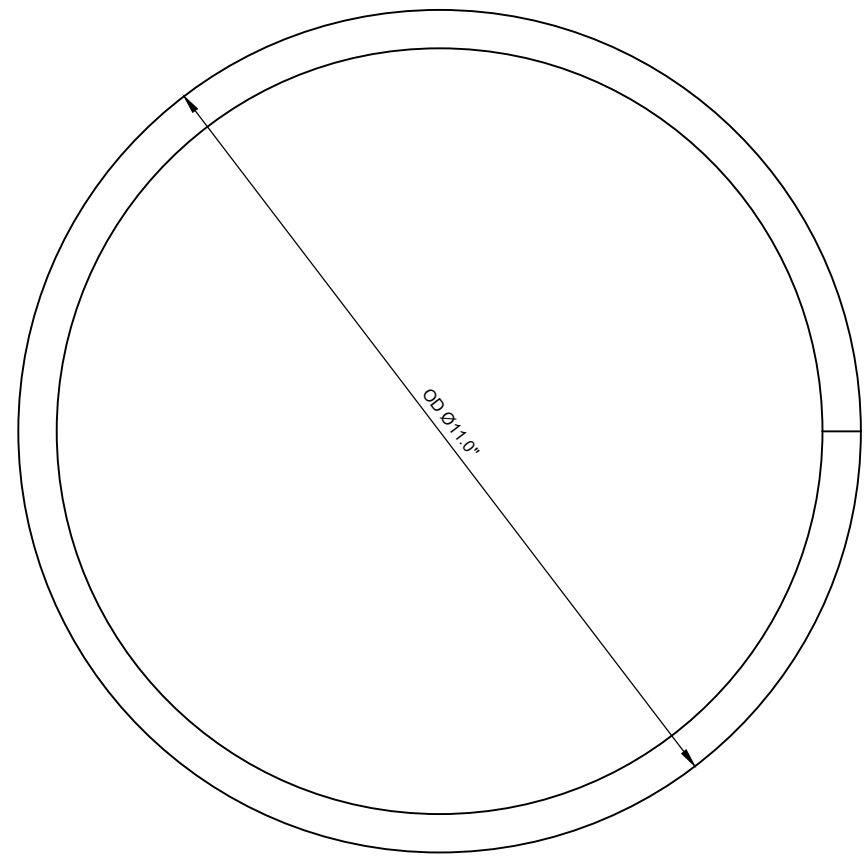
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL

structural
TECHNOLOGIES

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Work In Progress Drawings\Florida DOT_Test 2017\ECI 6-7 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

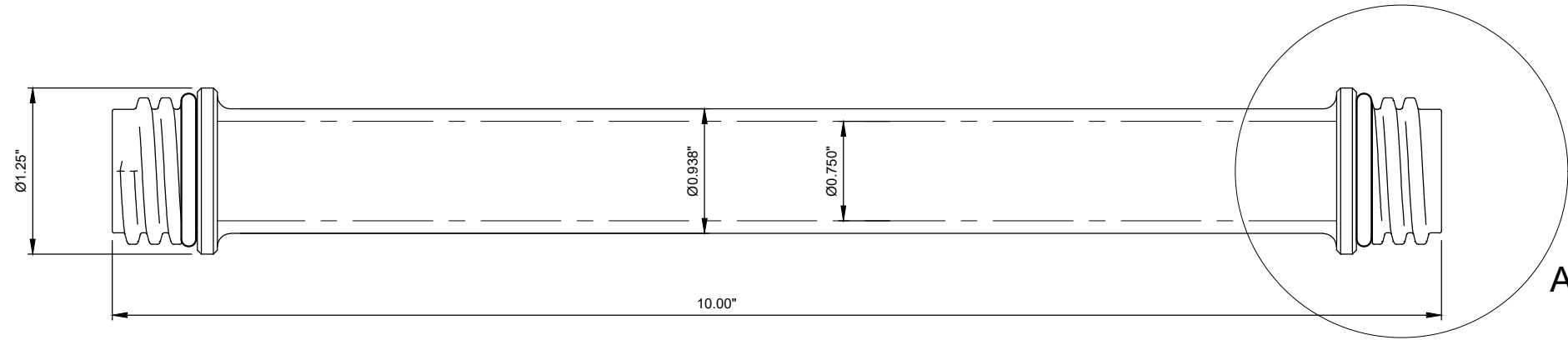
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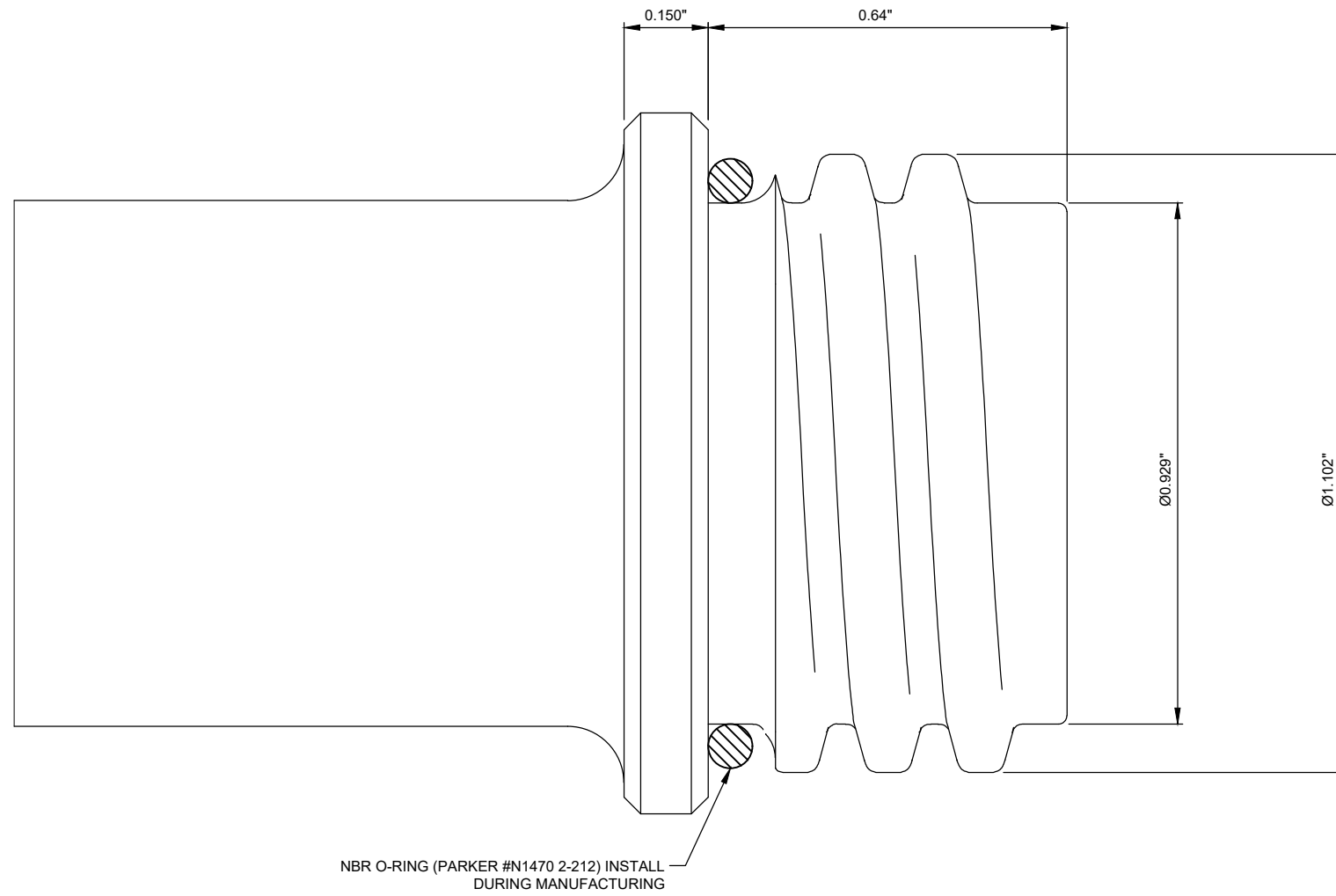
DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-7 SPIRAL #3500 (#4, DIA. 11", 3" PITCH, 6 1/2 TURNS)	STEEL GR 60 PER ASTM A615	02BP0095

<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 CORPORATE OFFICE PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	03MAR2020
		DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>ECI 6-7 SPIRAL</p>		NO	NO	NO
<p>TITLE:</p> <p>SYSTEM</p> <p>SHEET NO:</p>		NTS		
		C713		

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



SIDE VIEW



DETAIL A

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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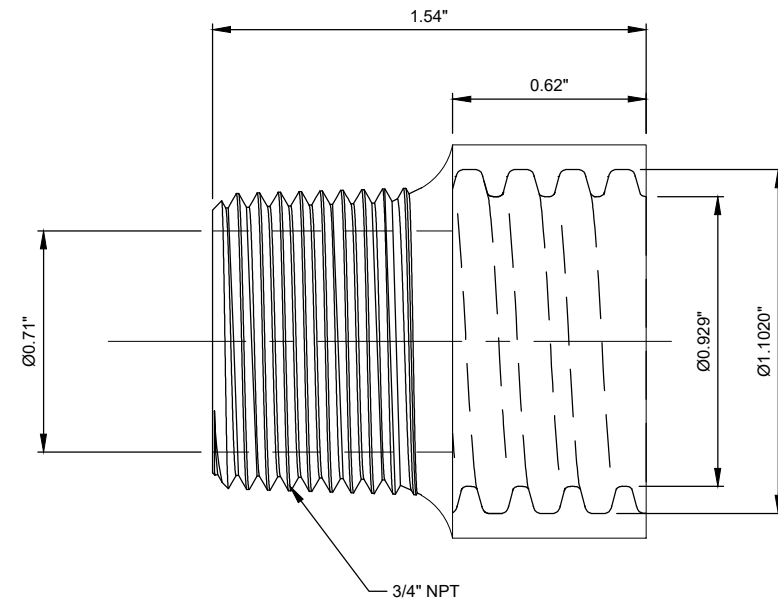
DESCRIPTION	MATERIAL	INVENTORY #
BEARING PLATE GROUT EXTENSION	WHITE POLYPROPYLENE PER ASTM D4101	02DT0318

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	DATE

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PROJECT INFORMATION:	SYSTEM DRAWINGS
PROJECT NO: SYSTEM	TITLE: 23MM BP GROUT EXTENSION
SHEET NO:	SCALE: NTS
	C714

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



SECTION VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
BR PLATE BUSHING 3/4" NPT 23MM	BLACK POLYPROPYLENE PER ASTM D4101	02DT0316

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
BR PLATE BUSHING 3/4" NPT 23MM

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C715

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CHK

CDL ZX

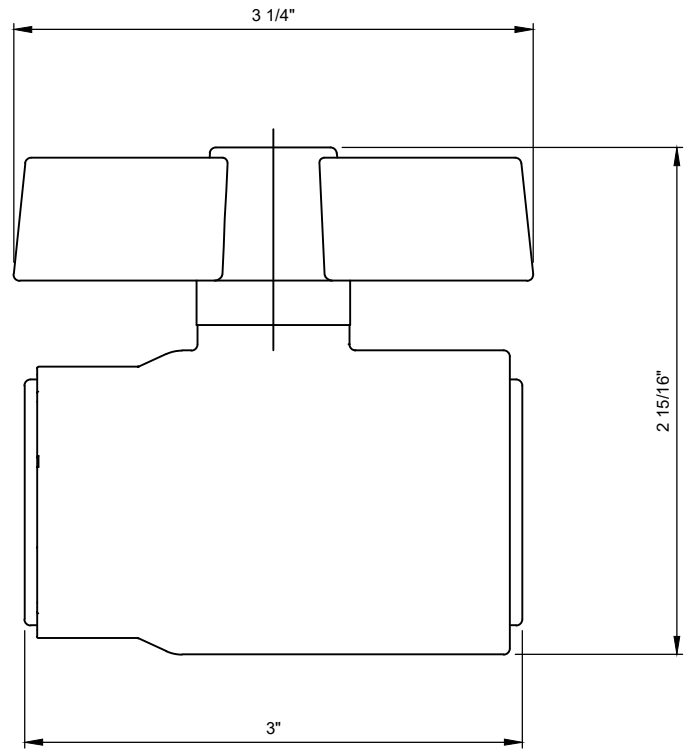
DATE

29JAN2020

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 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crafting Accessories



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960 THIS IS A TEMPORARY ITEM

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DESCRIPTION	MATERIAL	INVENTORY #
PVC 1/4 TURN BALL VALVE W/ 3/4" FNPT	WHITE SCH 80 PVC	02DT01916

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	C720
TITLE:	PVC 1/4 TURN BALL VALVE W/ 3/4" FNPT
SCALE:	NTS

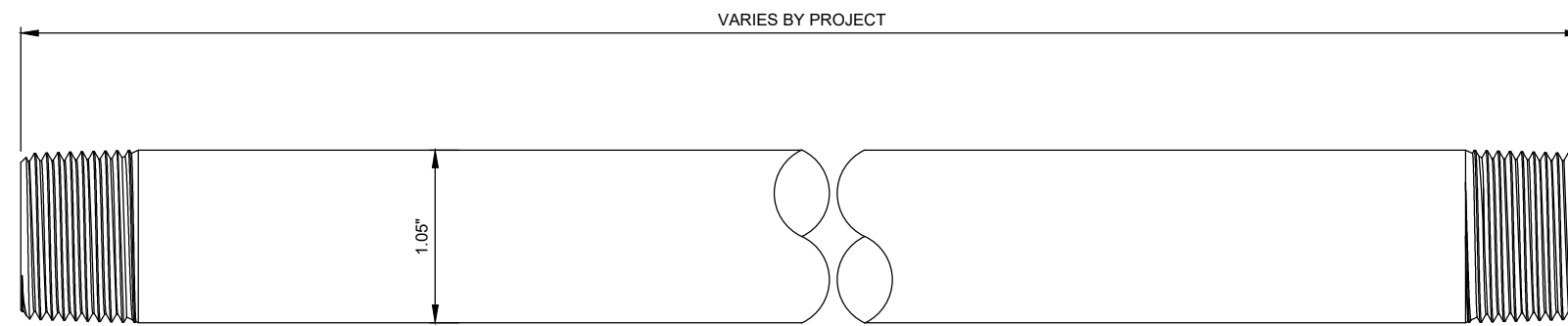
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PHONE: (410) 850-7000
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

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



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL
3/4" NPT PP NIPPLE	SCH 80 BLACK POLYPROPYLENE PER ASTM D4101

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" NPT PP NIPPLE

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C723

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

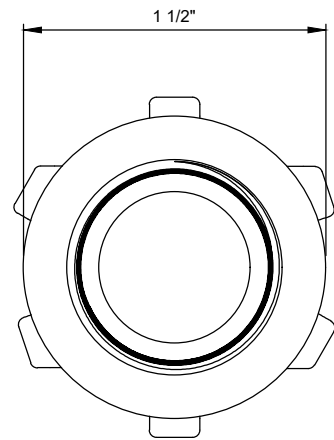
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29JAN2020

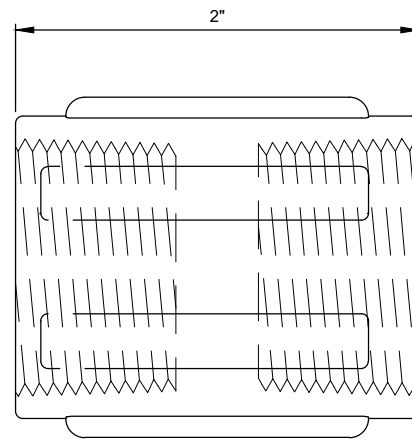
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" NPT PP F/F COUPLER	SCH 80 BLACK POLYPROPYLENE PER ASTM D4101	02DT01931

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	3/4" NPT PP F/F COUPLER
SHEET NO:	C775

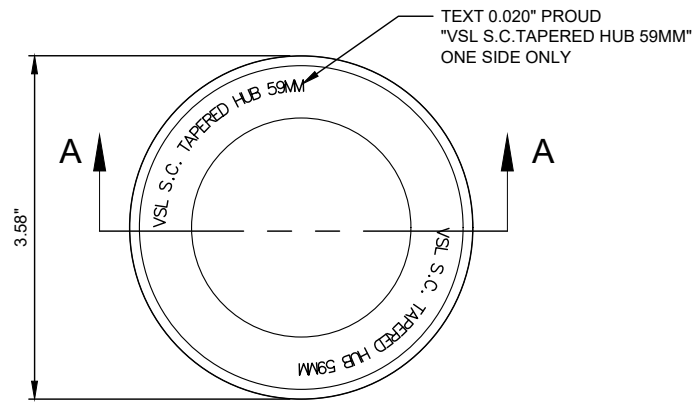
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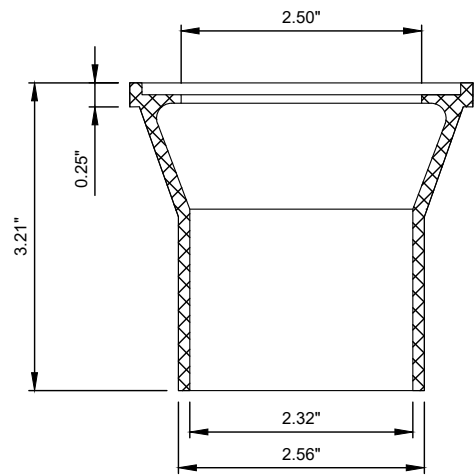
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	DESCRIPTION	BY	CHK
			DATE

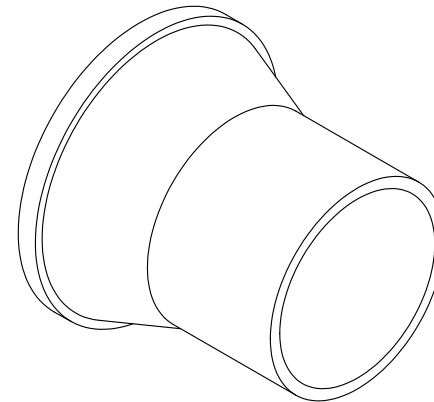
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



TOP VIEW



SECTION A-A



3D VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
59MM TAPERED HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC05910

PROJECT INFORMATION:

SYSTEM DRAWING

STRUCTURAL TECHNOLOGIES, LLC
CORPORATE OFFICE

structural TECHNOLOGIES

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structuraltechnologies.com

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COLUMBIA, MD 21046

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

PROJECT NO:
SYSTEM

SHEET NO:
C781

SCALE:
NTS

TITLE:
59MM TAPERED HUB

NO

APPROVED FOR CONSTRUCTION

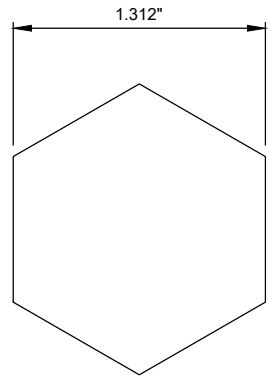
DESCRIPTION

BY

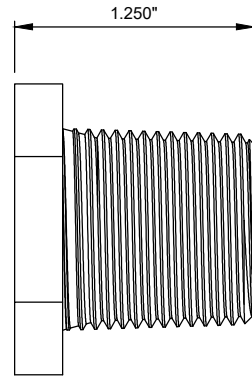
CHK

DATE
29JAN2020

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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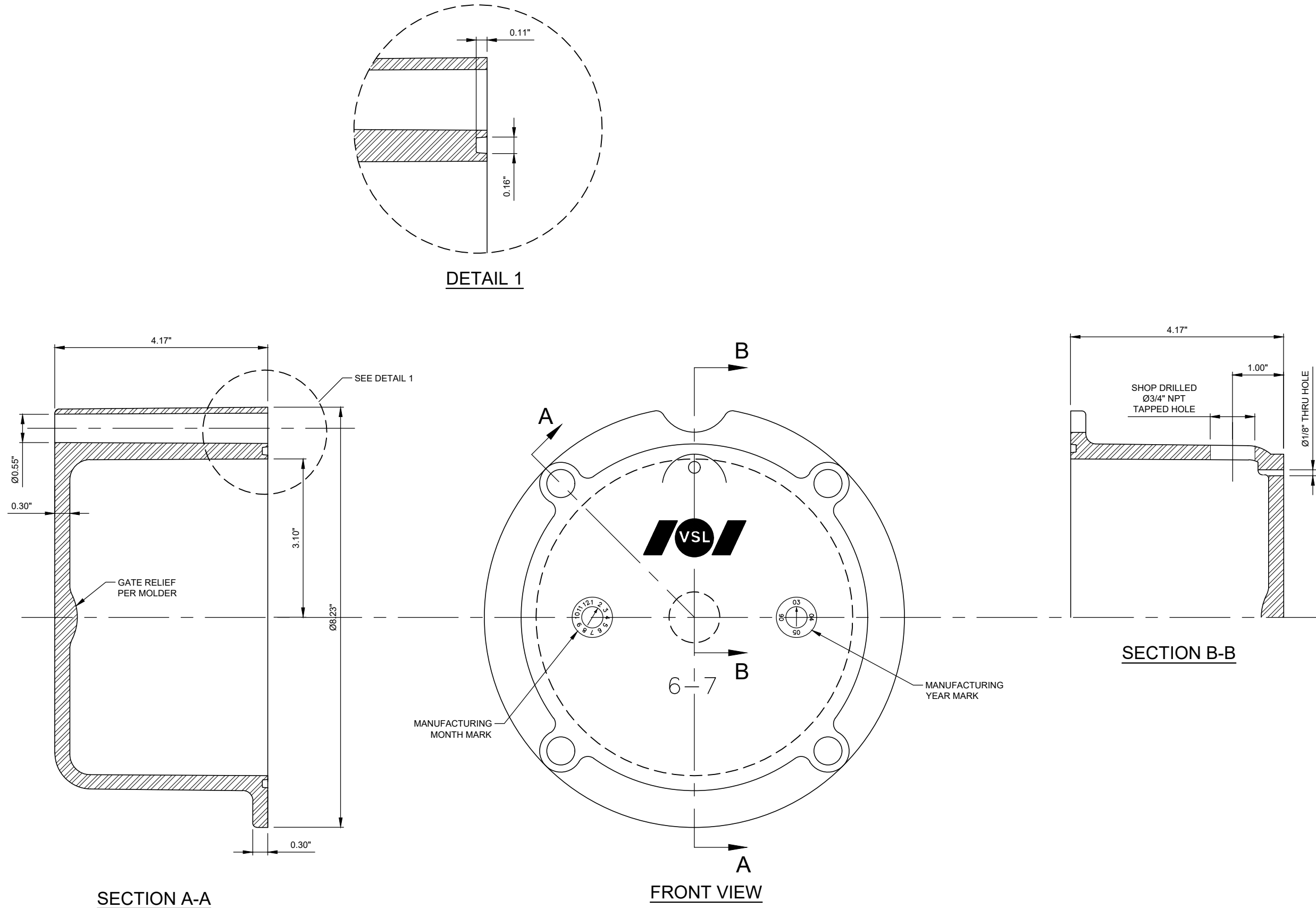
PROJECT INFORMATION:

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

structural TECHNOLOGIES
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
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 PHONE: (410) 850-7000
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Grouted System



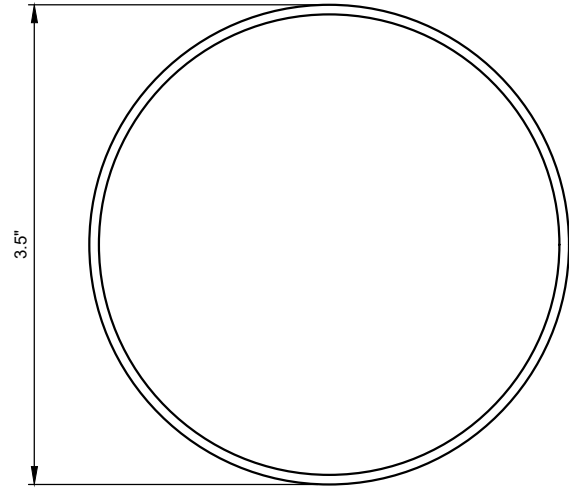
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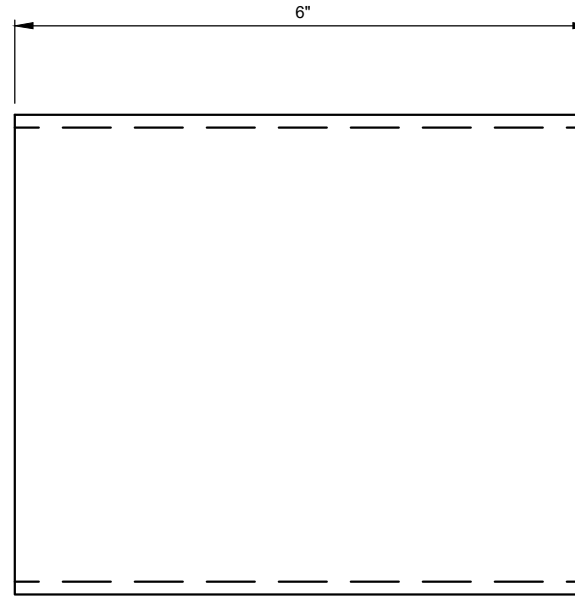
DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-7 GROUT CAP W/ 3/4" VERTICAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC60701

PROJECT INFORMATION:		SYSTEM DRAWING	
TITLE: ECI 6-7 GROUT CAP W/ 3/4" VERTICAL PORT		PROJECT NO: SYSTEM	
SCALE: NTS		SHEET NO: C788	
<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	NO
CDL	ZX	BY	CHK
			DATE
			03MAR2020

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\1.375 Internal Grouted Bar System



END VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
HEAT SHRINK SLEEVE CANUSA PLA-63-YE (6" LONG)	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0503

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
PLA-63-YE 63MMx6" HEAT SHRINK SLEEVE

PROJECT NO:
SYSTEM

SHEET NO:

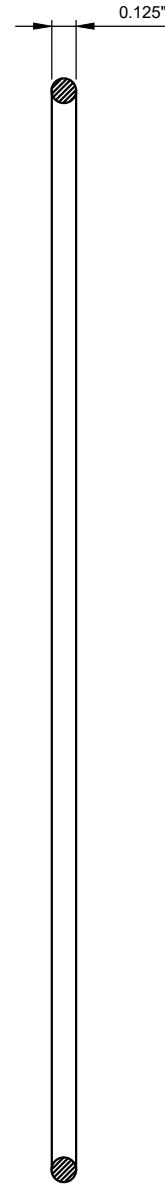
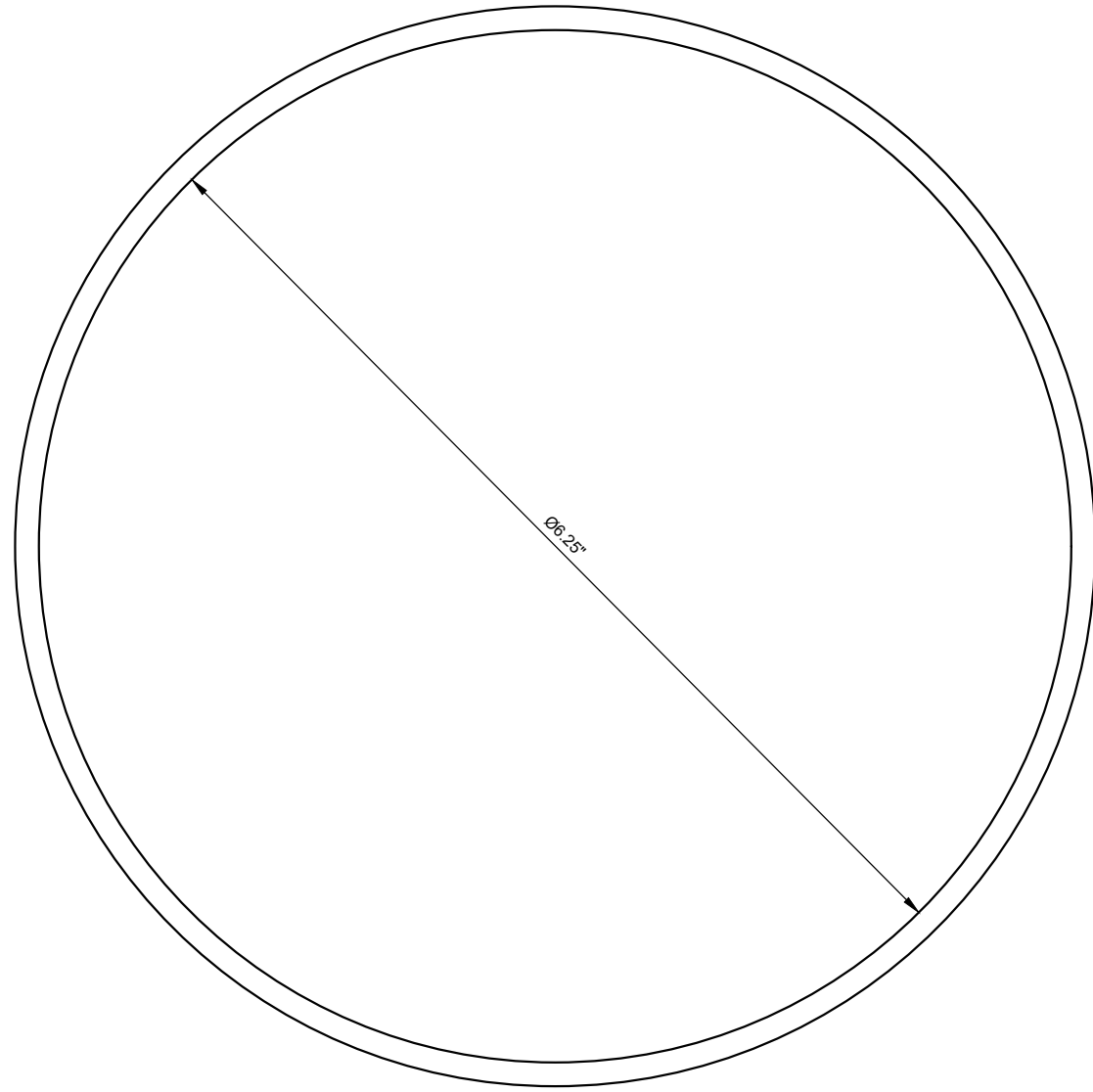
SCALE:
NTS

C791

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
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Grouted System



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DESCRIPTION	SIZE	MATERIAL	INVENTORY #
ECI 6-7 GROUT CAP O-RING	6.25"x6.50"x0.125"	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX5013

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
C795	

SYSTEM DRAWING

ECI 6-7 GROUT CAP O-RING

structural TECHNOLOGIES

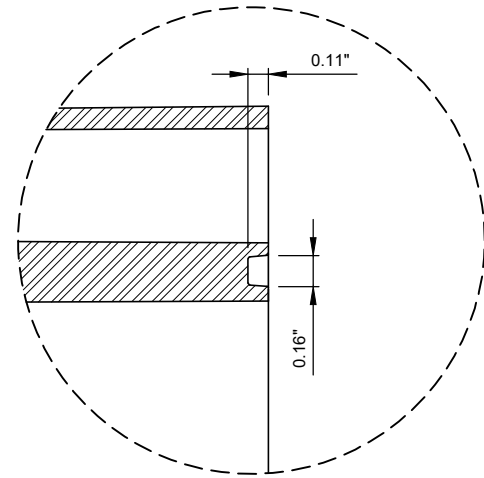
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL

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

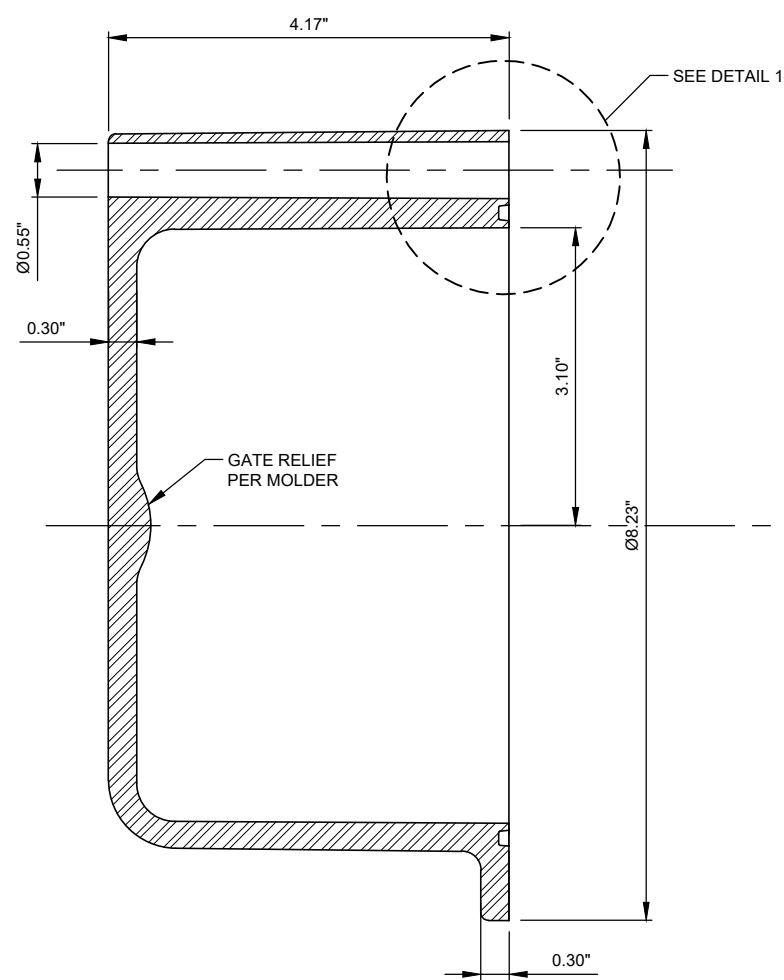
PHONE: (410) 850-7000
structuraltechnologies.com

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

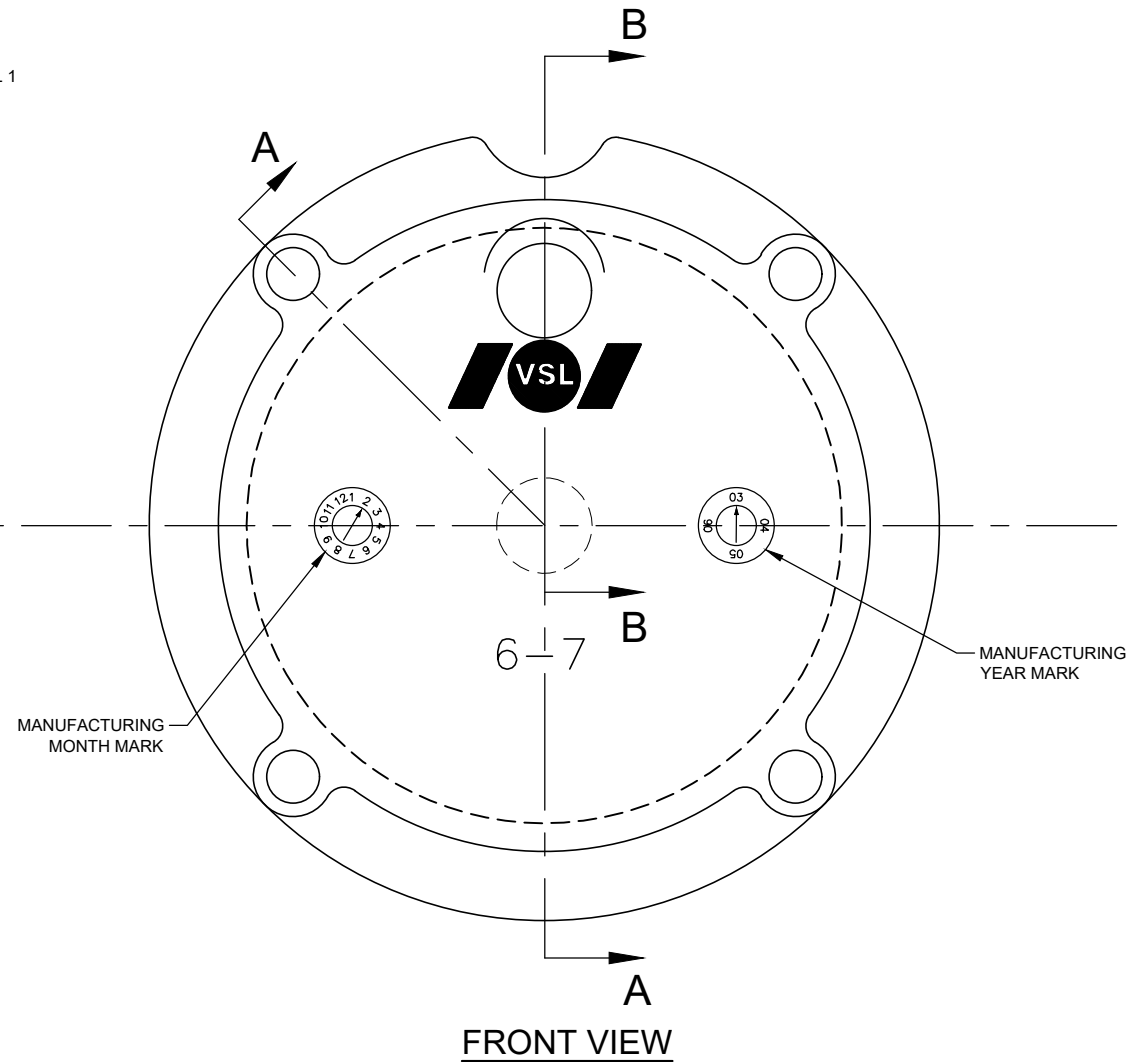
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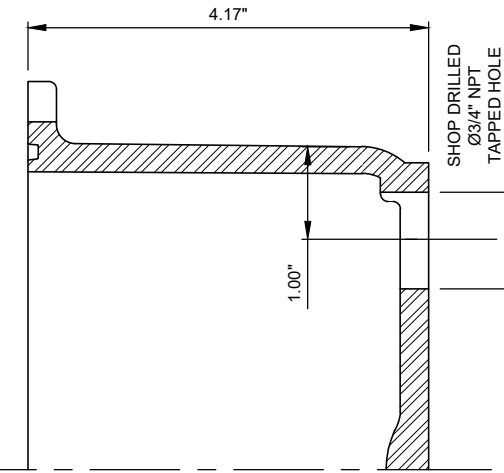
DETAIL 1



SECTION A-A



FRONT VIEW



SECTION B-B

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: ECI 6-7 GROUT CAP W/ 3/4" HORIZONTAL PORT

PROJECT NO: SYSTEM

SCALE: NTS

SHEET NO:

C802

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

APPROVED FOR CONSTRUCTION

CDL ZX

NO

BY

DESCRIPTION

NO

CHK

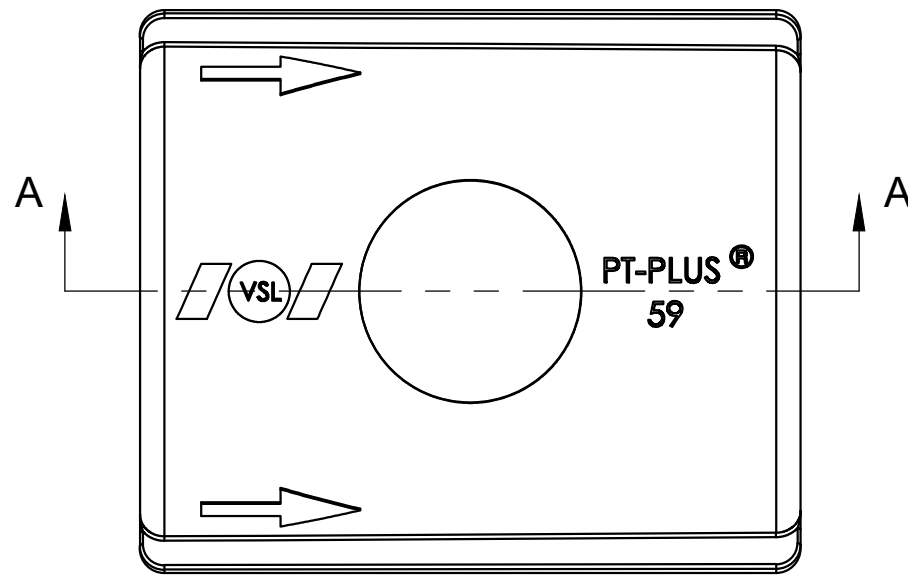
DATE

03MAR2020

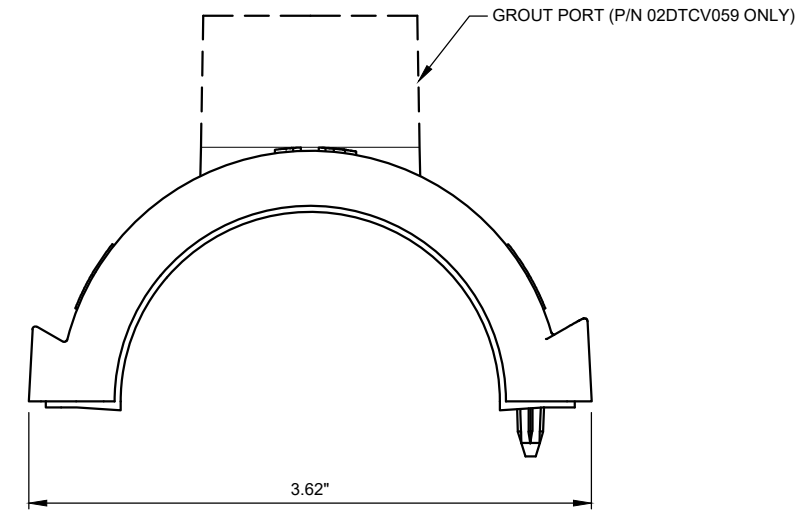
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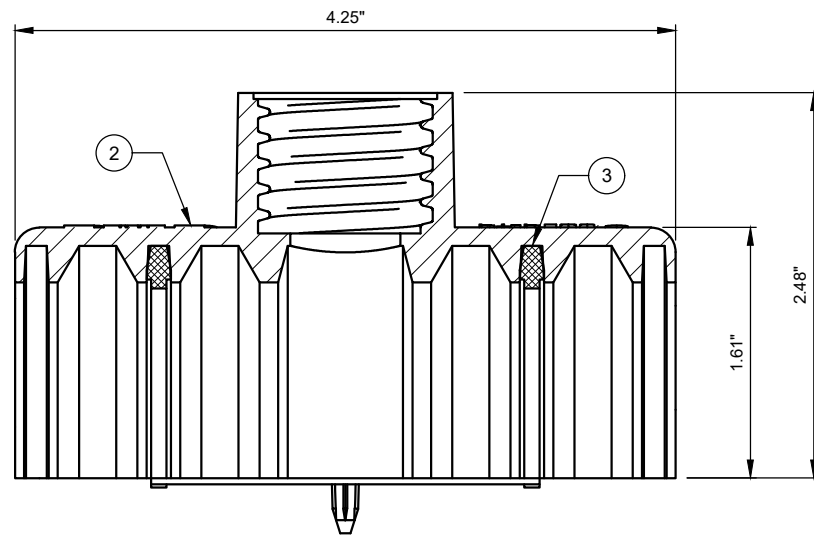
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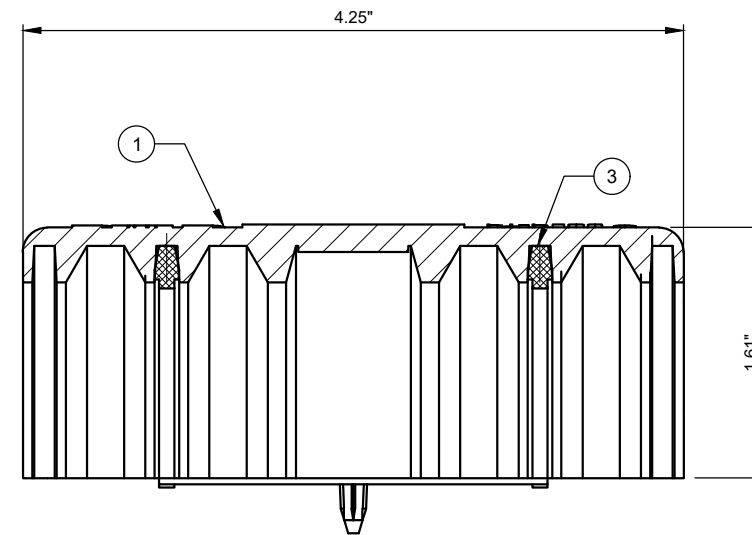
TOP VIEW



SIDE VIEW



HALF SHELL W/ VENT
SECTION A-A



HALF SHELL W/O VENT
SECTION A-A

NOTES:

1. MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.
2. USE TWO HALF-SHELLS W/O VENT (INV. #02DTCH0059) FOR STANDARD DUCT COUPLING.
3. USE ONE HALF-SHELL W/O VENT (INV. #02DTCH0059) AND ONE HALF-SHELL W/ VENT (INV. #02DTCV059) FOR DUCT COUPLING WHERE A GROUT VENT IS NEEDED.

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ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EG 6-7 Grouted System

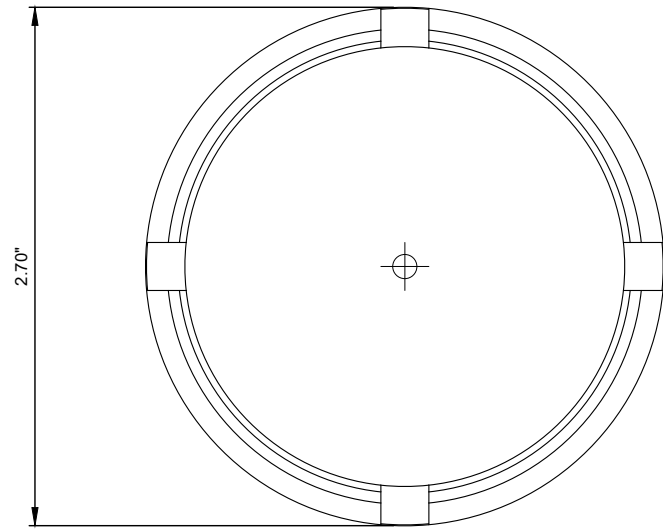
ITEM	DESCRIPTION	MATERIAL	INVENTORY #
1	59MM PT-PLUS DUCT COUPLER HALF SHELL	BLACK POLYPROPYLENE PER ASTM D4101	02DTCH059
2	59MM PT-PLUS DUCT COUPLER HALF SHELL W/ VENT	BLACK POLYPROPYLENE PER ASTM D4101	02DTCV059
3	SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	INCLUDED

APPROVED FOR CONSTRUCTION	CDL ZX	03MAR2020
DESCRIPTION	BY	CHK
NO		DATE

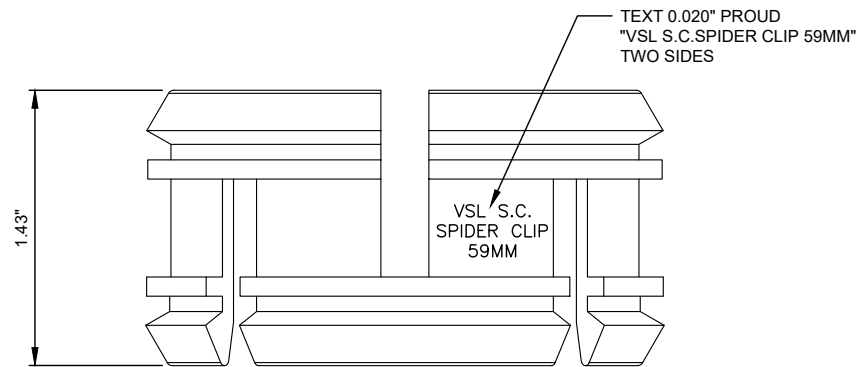
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	59MM PT-PLUS DUCT COUPLER HALF SHELL, VENTED & NON-VENTED
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	C816

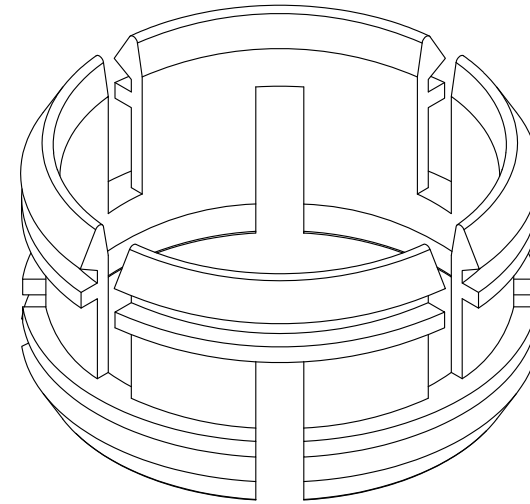
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



TOP VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

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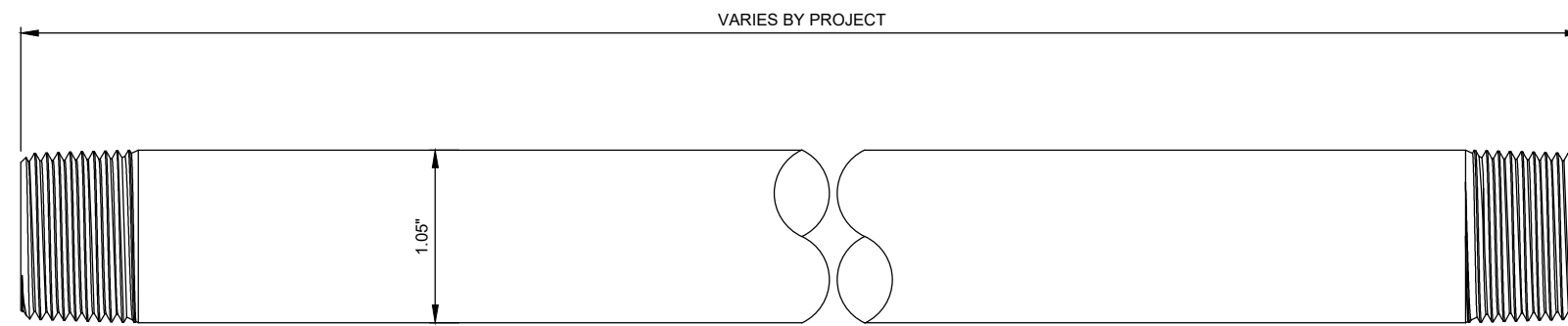
DESCRIPTION	MATERIAL	INVENTORY #
59MM SPIDER CLIP	HDPE PER ASTM D3350	02SC05904

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:	59MM SPIDER CLIP
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	C817

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



SIDE VIEW

NOTE: THIS IS A TEMPORARY ITEM THAT MEETS OR EXCEEDS FDOT SPEC 960.

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DESCRIPTION	MATERIAL
3/4" NPT PVC NIPPLE	SCH 80 WHITE PVC

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" NPT PVC NIPPLE

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C887

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

BY

CHK

DATE

03MAR2020

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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