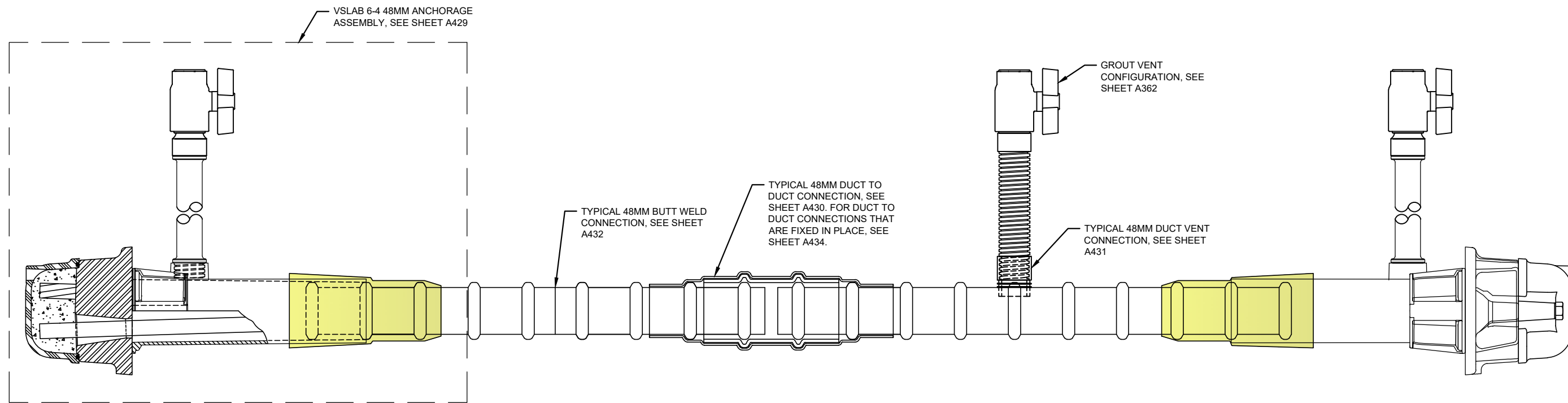


ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Work In Progress Drawings\Florida DOT_Test 2017\SLAB 6-4 48mm_Grauted



TENDON OVERALL ASSEMBLY

- NOTES:
 1. MINIMUM BEND RADIUS FOR 48MM DUCT IS 10'-0".

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PROJECT INFORMATION:		SYSTEM DRAWING	
TITLE: VSLAB 6-4 INTERNAL GROUDED TENDON W/ ROUND DUCT OVERALL ASSEMBLY		PROJECT NO: SYSTEM	
PROJECT NO: SYSTEM		SCALE: NTS	
SHEET NO: A428		DATE 29JAN2020	
APPROVED FOR CONSTRUCTION		CDL	ZX
DESCRIPTION		BY	CHK
NO			

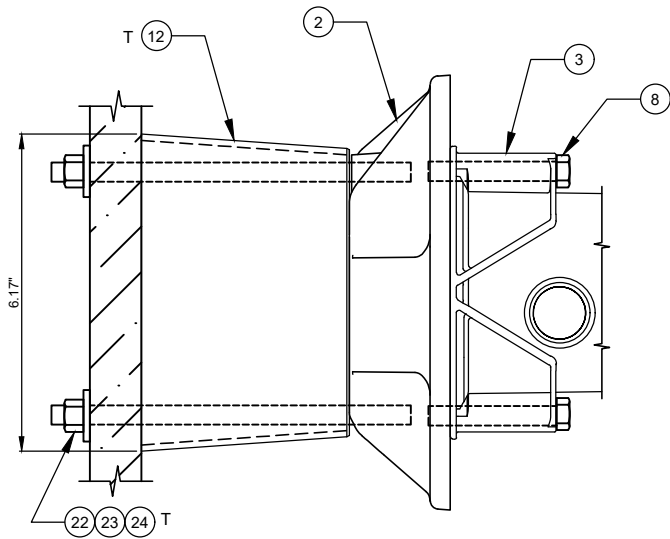
structural TECHNOLOGIES

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

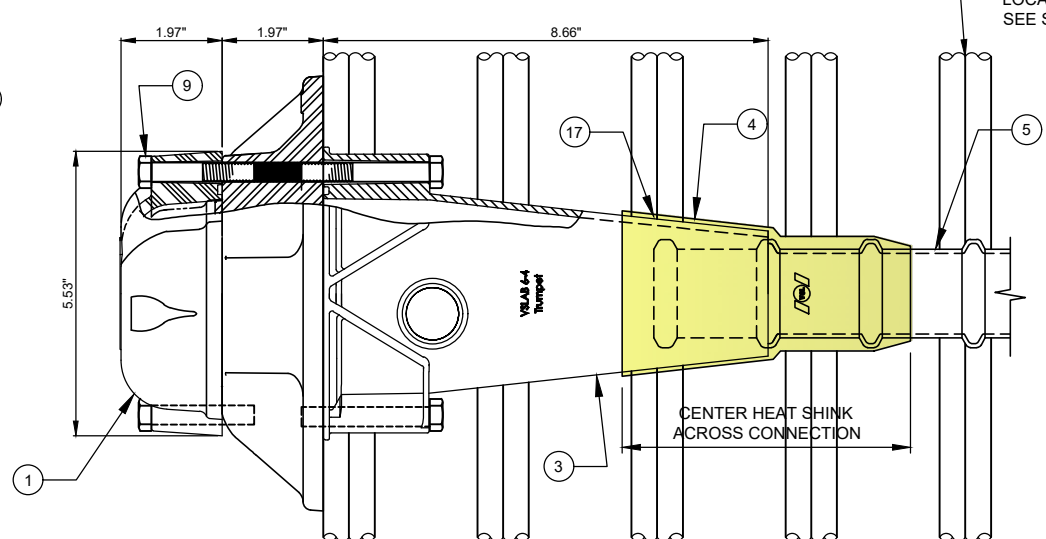
STRUCTURAL TECHNOLOGIES, LLC
CORPORATE OFFICE

10150 OLD COLUMBIA RD
COLUMBIA, MD 21046

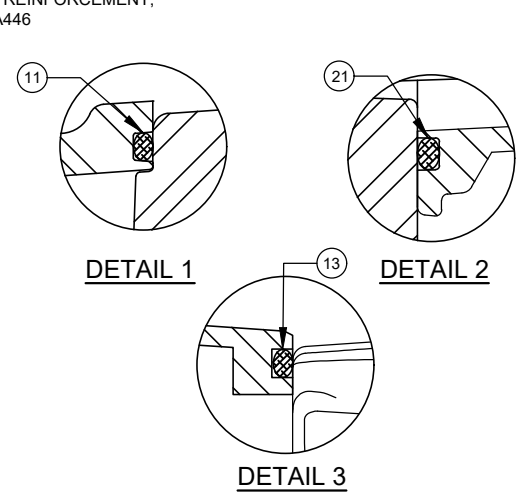
PHONE: (410) 860-7000
structuraltechnologies.com



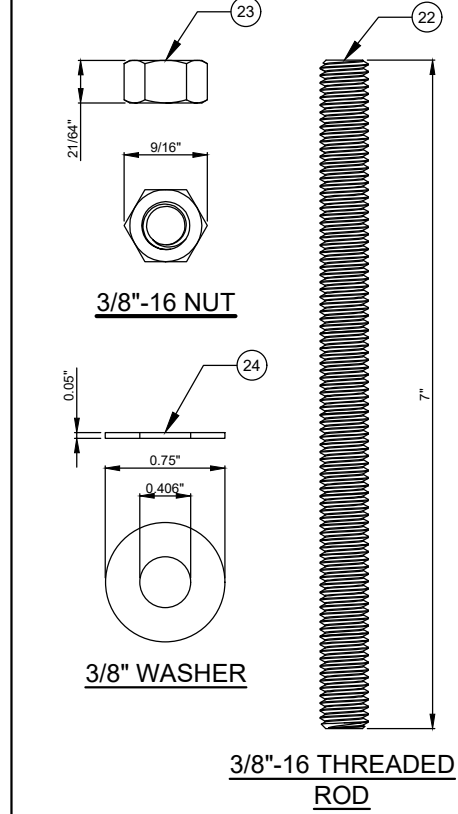
PLAN VIEW W/ POCKET FORMER



PLAN VIEW W/ GROUT CAP



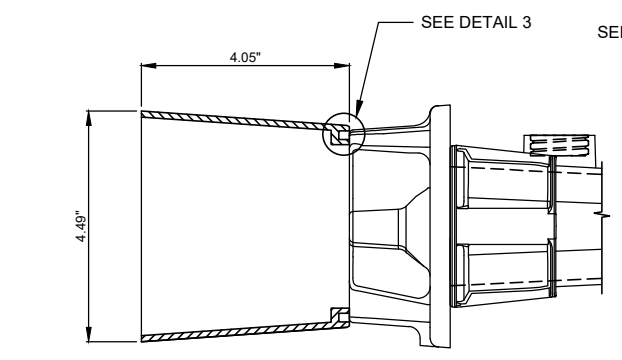
DETAIL 1
DETAIL 2
DETAIL 3



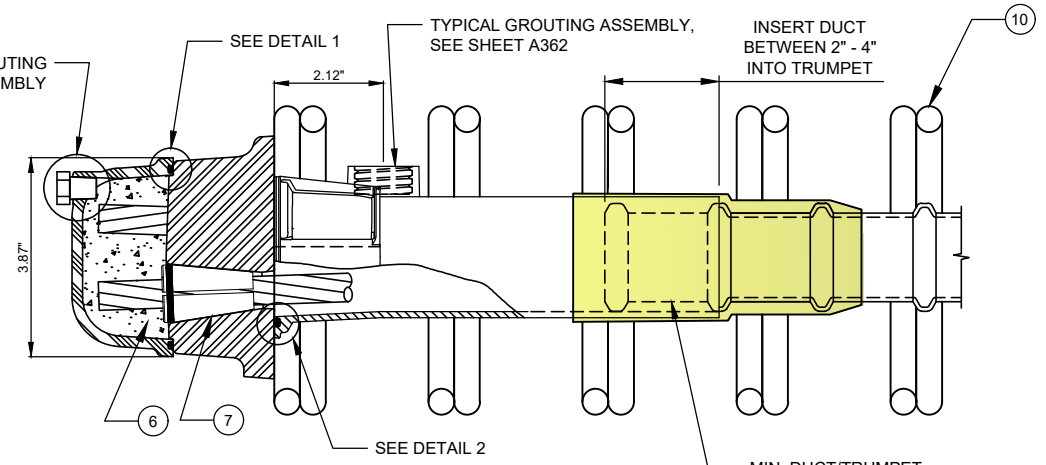
3/8"-16 NUT

3/8" WASHER

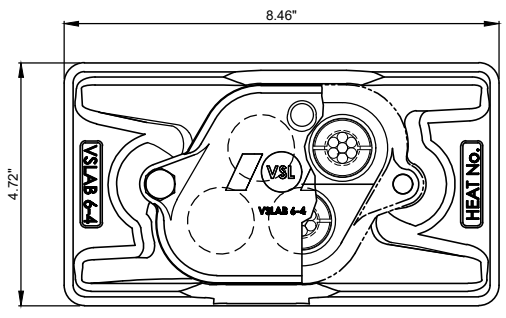
3/8"-16 THREADED ROD



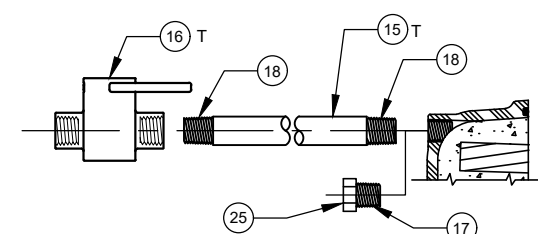
ELEVATION VIEW W/ POCKET FORMER



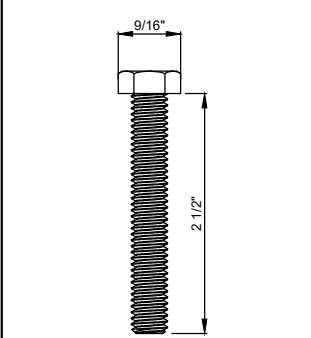
ELEVATION VIEW W/ GROUT CAP



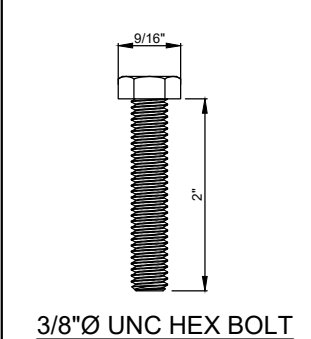
END VIEW



CAP GROUTING ASSEMBLY



3/8"Ø UNC HEX BOLT
P/N: 02VS06408D



3/8"Ø UNC HEX BOLT
P/N: 02VS06407D

NOTES:
1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
2. POST-INSTALL OPTION AVAILABLE ONLY AS A PROJECT-SPECIFIC OPTION.

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

WHEN BOTH ANCHOR HEADS ARE NEED TO BE INSTALLED PRIOR TO CONCRETE CAST, FOLLOW THE PROCEDURE BELOW. (WHEN AT LEAST ONE END IS OPEN, REFER TO A447, POST-INSTALL PROCEDURE.)

- CUT DUCT TO THE CORRECT LENGTH AND PREPARE ANY REQUIRED GROUT VENTS (SEE SHEET A431), IF APPLICABLE.
- INSERT REQUIRED NUMBER OF STRANDS THROUGH THE DUCT.
- LAY OUT DUCT IN THE REBAR CAGE ACCORDING TO THE PLANS.
- ATTACH TRUMPETS TO EACH END OF THE DUCT WITH HEAT SHRINK (DO NOT HEAT UP YET)
- BOLT ANCHOR HEADS TO THE TRUMPETS.
- SECURE ANCHOR HEADS TO ITS FINAL POSITION TO THE FORMWORK OR POCKET FORMER.
- HEAT UP THE HEAT SHRINK TO WRAP THE TRUMPET AND DUCT CONNECTION.
- INSTALL GROUT CAPS, PLUG ALL OPEN PORTS TO PROVIDE AN AIR-TIGHT SYSTEM.
- PRESSURIZE DUCT TO 7.5 PSI AND LOCK-OFF OUTSIDE AIR SOURCE. RECORD PRESSURE LOSS FOR ONE MINUTE. IF PRESSURE LOSS EXCEEDS 0.75 PSI, OR 10%, FIND AND REPAIR LEAKS IN DUCT ASSEMBLY USING REPAIR METHODS APPROVED BY THE ENGINEER AND RETEST. AFTER TESTING, REMOVE GROUT CAPS.
- ENSURE DUCT IS TIED OFF EVERY 2 FEET.
- PROCEED WITH CONCRETING.
- STRIP FORMWORK AND POCKET FORMERS, IF APPLICABLE.
- INSTALL WEDGES.
- PROCEED WITH STRESSING WHEN CONCRETE REACHES REQUIRED STRENGTH. CUT & CAP. AFTER ELONGATIONS ARE CONFIRMED WITHIN TOLERANCE, CUT OFF STRAND TAILS AND LEAVE MAXIMUM 1.25" LENGTH. INSTALL GROUT CAP.
- PROCEED WITH TENDON PRESSURE TEST AS REQUIRED BY FDOT SPECIFICATIONS. IN THE PRESENCE OF THE ENGINEER OR REPRESENTATIVE, PRESSURIZE DUCT TO 50 PSI AND LOCK-OFF OUTSIDE AIR SOURCE. RECORD PRESSURE LOSS FOR ONE MINUTE. A PRESSURE LOSS LESS THAN 25 PSI OR 50% IS ACCEPTABLE FOR DUCTS WITH A LENGTH EQUAL TO OR LESS THAN 150 FEET AND A PRESSURE LOSS LESS THAN 15 PSI IS ACCEPTABLE FOR DUCTS LONGER THAN 150 FEET. IF PRESSURE LOSS EXCEEDS ALLOWABLE, REPAIR LEAKING CONNECTIONS USING METHODS APPROVED BY THE ENGINEER AND RETEST.
- PROCEED WITH GROUTING OPERATION WITHIN 14 DAYS AFTER STRAND INSTALLATION (SEE CAP GROUTING ASSEMBLY).

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG#
1	1	VSLAB 6-4 GROUT CAP	ABS LUSTRAN 633 PER ASTM D4673	02VS06415	C654
2	1	VSLAB 6-4 ANCHOR HEAD GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02VS06410	C652
3	1	VSLAB 6-4 TRUMPET	BLACK POLYPROPYLENE PER ASTM D4101	02VS06405	C653
4	1	HEAT SHRINK SLEEVE CANUSA PLA-55-YE (6" LONG)	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0501	C870
5	1	DUCT WHT PP, 48MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411	C684E
6	-	GROUT	PREMIUM NON-BLEED PER FDOT APL	-	-
7	4	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17 PER ASTM A108	02WG0008	C218
8	2	3/8"Ø UNC X 2.5" LONG HEX BOLT	316 STAINLESS PER ASTM F593	02VS06408D	A429
9	2	3/8"Ø UNC X 2" LONG HEX BOLT	316 STAINLESS PER ASTM F593	02VS06407D	A429
10	-	VSLAB 6-4 LOCAL ZONE REINFORCEMENT	STEEL GR60 PER ASTM A615	02VS0625	A446
11	1	VSLAB 6-4 GROUT CAP QUAD-RING (-241)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02VS06403	C699
12	-	VSLAB 6-4 POCKET FORMER	-	02VS06404	C700
13	1	VSLAB 6-4 POCKET FORMER QUAD-RING (-242)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02VS06412	C699
15	1	3/8" NPT PVC NIPPLE	WHITE SCH 80 PVC	-	C790
16	1	1/4 TURN BALL VALVE W/ 3/8" FNPT	BRASS	02DT01933	C776
17	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
18	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-
21	1	VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02VS06406	C793
22	2	3/8"Ø UNC X 7" LONG FULLY THREADED STUD	316 STAINLESS STEEL PER ASTM F593	02VS06420	A429
23	2	3/8"Ø NUT	316 STAINLESS STEEL PER ASTM A240	02VS06421	A429
24	2	3/8"Ø FLAT WASHER	316 STAINLESS STEEL PER ASTM A240	02VS06422	A429
25	1	3/8" NPT GROUT PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01934	C789

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ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\VSLAB 6-4 48mm_Grouted

APPROVED FOR CONSTRUCTION

NO

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: VSLAB 6-4 GROUTED W/ 48MM DUCT SYSTEM ASSEMBLY

CDL ZX 29JUN2020

BY CHK

DATE

PROJECT NO: SYSTEM

SCALE: NTS

SHEET NO: A429

APPROVED FOR CONSTRUCTION

NO

STRUCTURAL TECHNOLOGIES, LLC

10150 OLD COLUMBIA RD

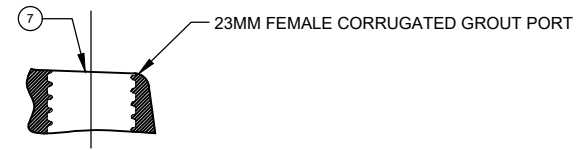
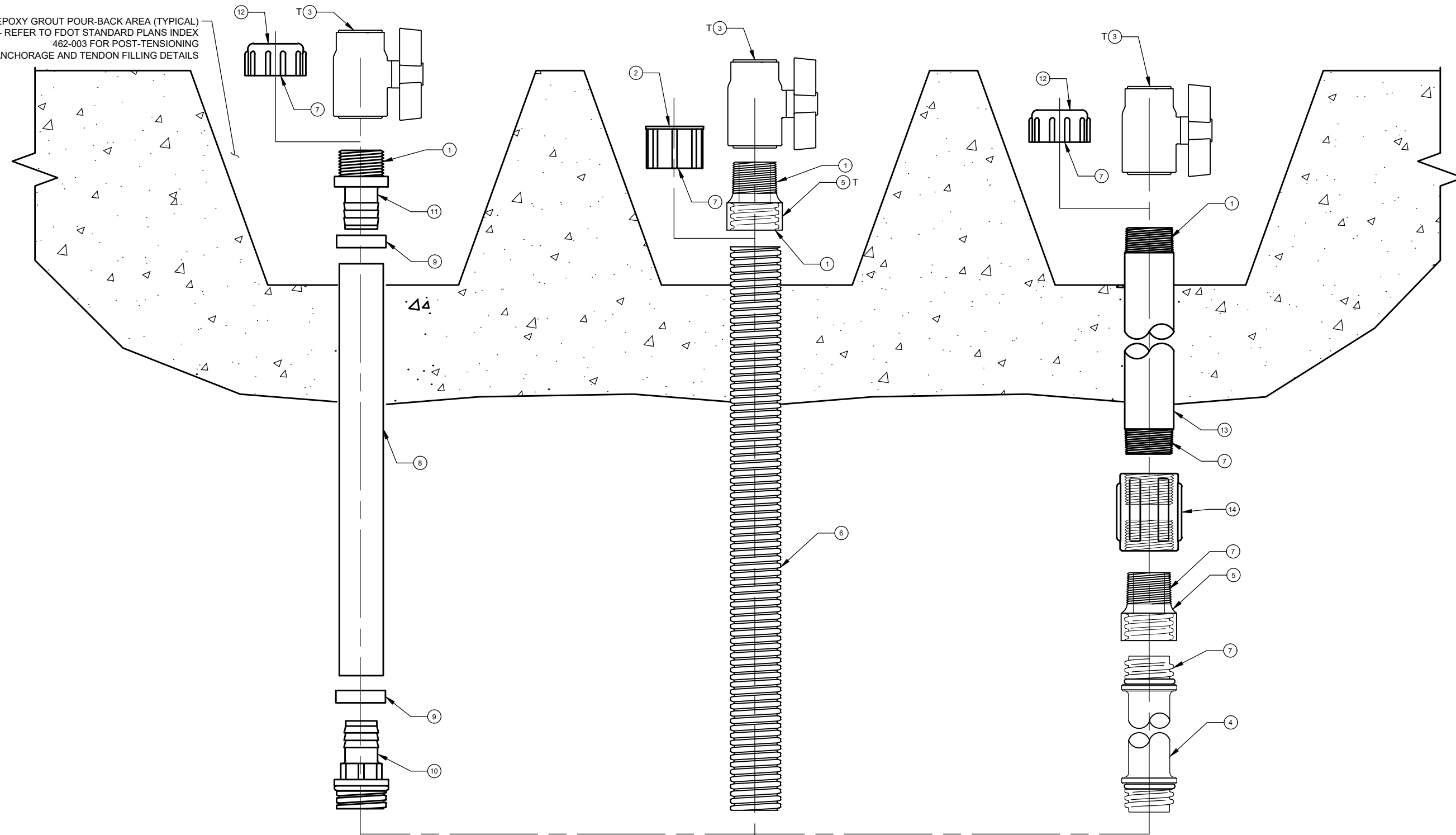
COLUMBIA, MD 21046

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

PHONE: (410) 850-7000

structuralltechnologies.com

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



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

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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PROJECT INFORMATION:

structural TECHNOLOGIES

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

DATE

SYSTEM DRAWING

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

PROJECT NO: SYSTEM

SHEET NO: A362

SCALE: NTS

DESCRIPTION

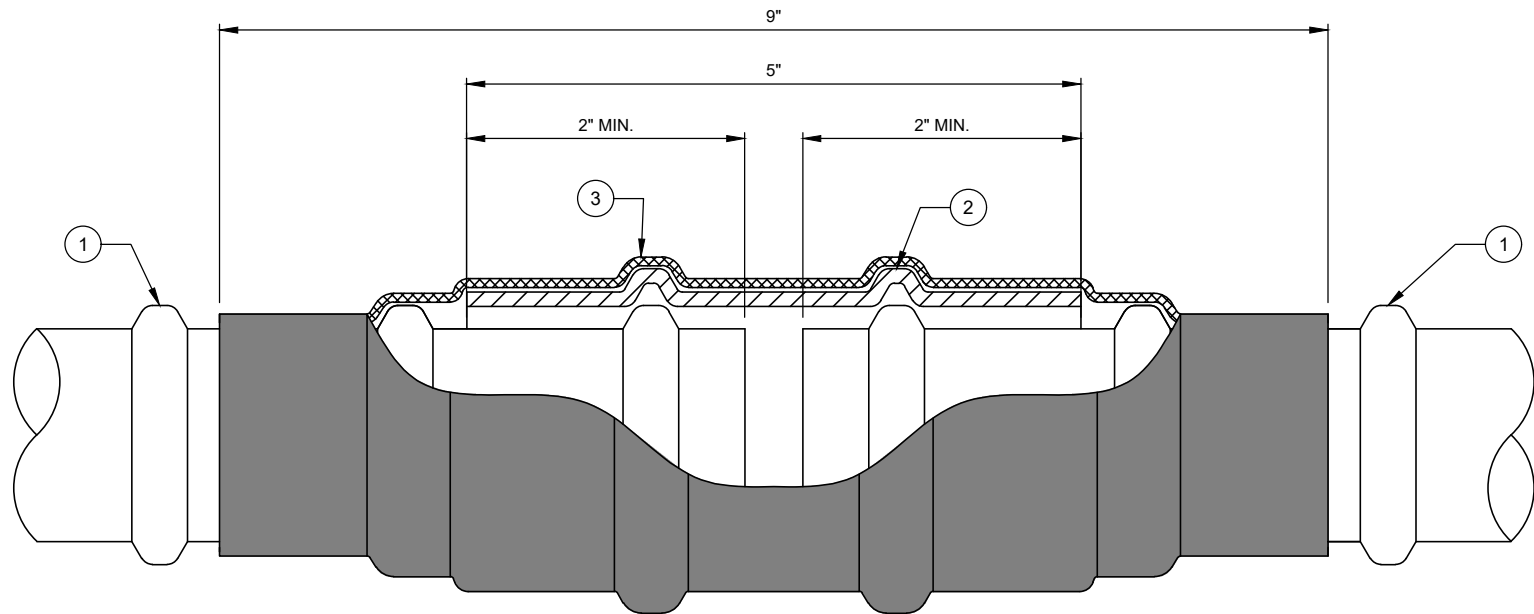
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NO

BY

CHK

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4 48mm Grouted



ELEVATION VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	DUCT WHT PP, 48MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411	C684E
2	-	DUCT, WHT PP, 59 MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412	C684A
3	1	CANUSA PLA-55-YE X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0512	C869

- INSTALLATION NOTES:**
1. MAKE ONE LONGITUDINAL CUT ALONG 59MM DUCT.
 2. OPEN 59MM DUCT UP ALONG CUT AND FIT ONTO ENDS OF 48MM DUCT TO BE COUPLED.
 3. ENSURE THAT THE RIBS MATCH AS SHOWN IN THE ELEVATION VIEW.
 4. INSTALL HEAT SHRINK AS SHOWN, CENTERED ON CONNECTION.

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PROJECT INFORMATION:

PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:	A430		

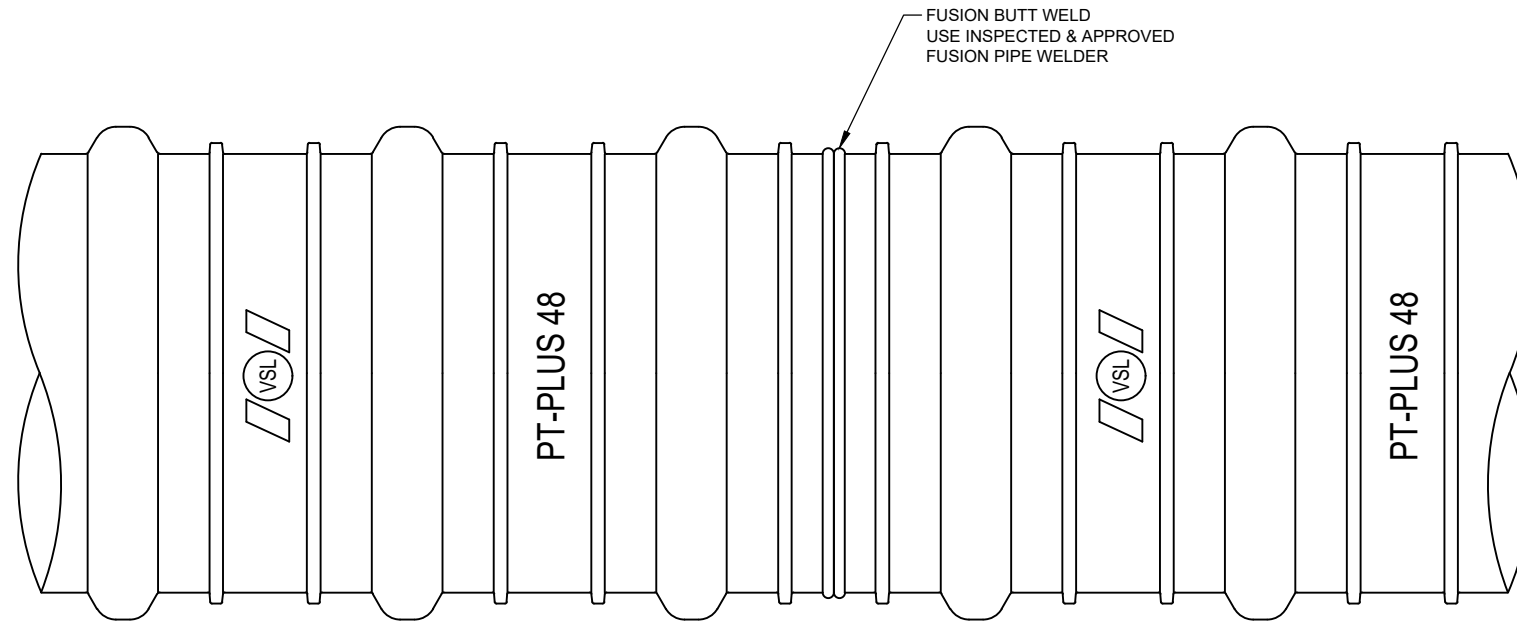
SYSTEM DRAWING

TITLE: TYPICAL 48MM PT-PLUS DUCT TO DUCT CONNECTION

structural TECHNOLOGIES
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 structuraltechnologies.com

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

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\SLAB 6-4 48mm Grouted



ELEVATION VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	2	DUCT WHT PP, 48MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411	C684E

- NOTES:
 1. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
48MM PT-PLUS BUTT WELD CONNECTION

PROJECT NO:
 SYSTEM

SHEET NO:

SCALE:
 NTS

A432

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

DESCRIPTION

CHK

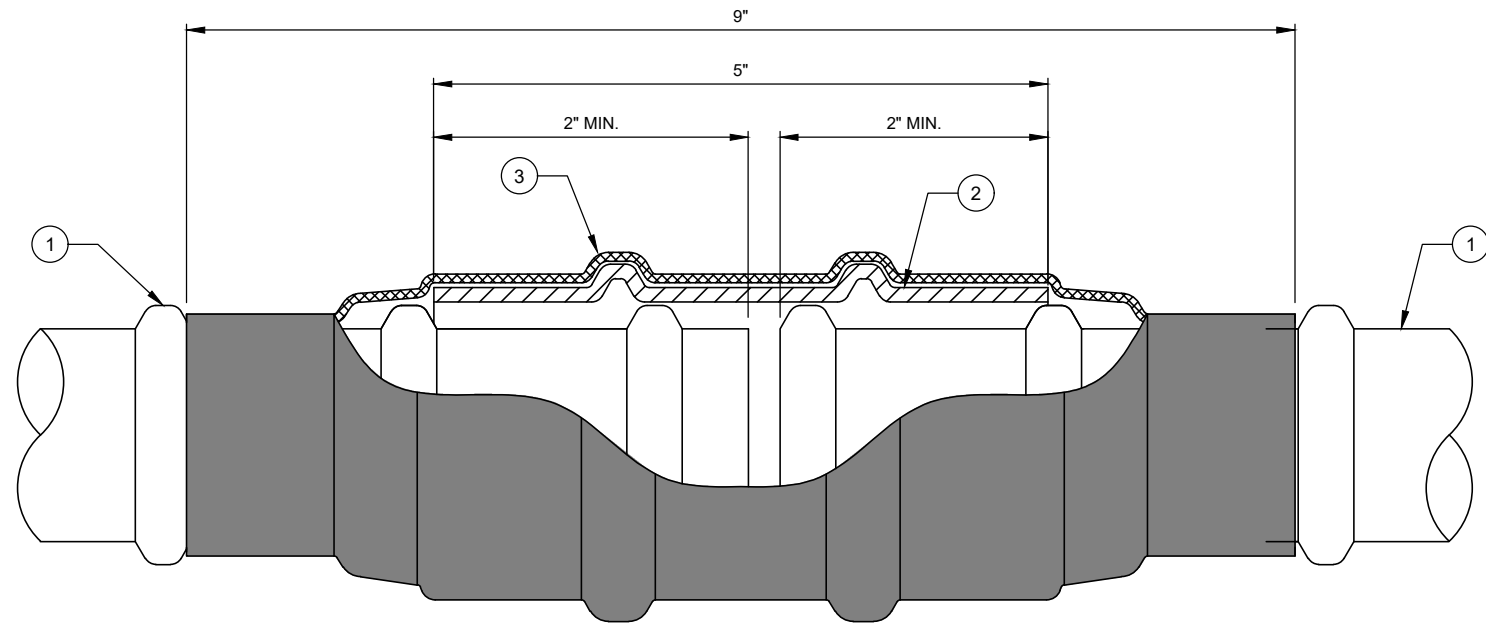
DATE

29JAN2020

structural TECHNOLOGIES

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ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4 48mm Grouted



ELEVATION VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	DUCT WHT PP 48MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411	C684E
2	-	DUCT, WHT PP, 76 MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0426	C684B
3	1	CANUSA PLA-55-YE X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0512	C869

- INSTALLATION NOTES:
1. MAKE ONE LONGITUDINAL CUT ALONG 76MM DUCT.
 2. OPEN 76MM DUCT UP ALONG CUT AND FIT ONTO ENDS OF 48MM DUCT TO BE COUPLED.
 3. INSTALL HEAT SHRINK AS SHOWN, CENTERED ON CONNECTION.

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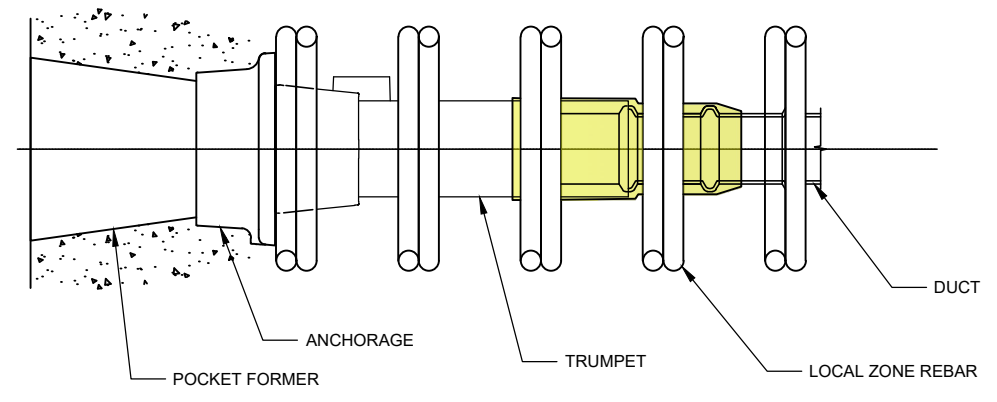
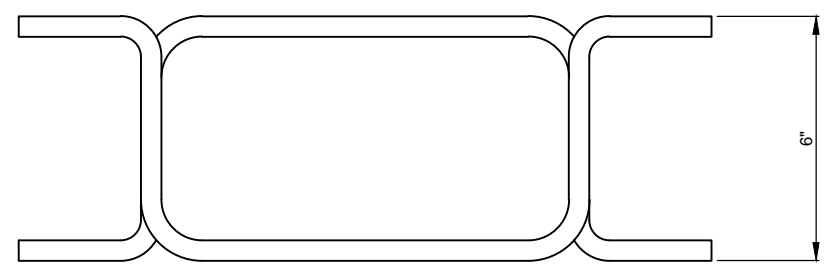
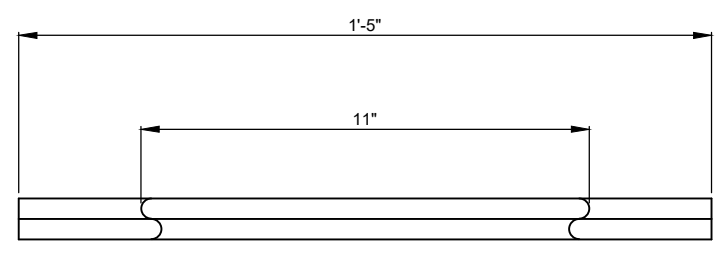
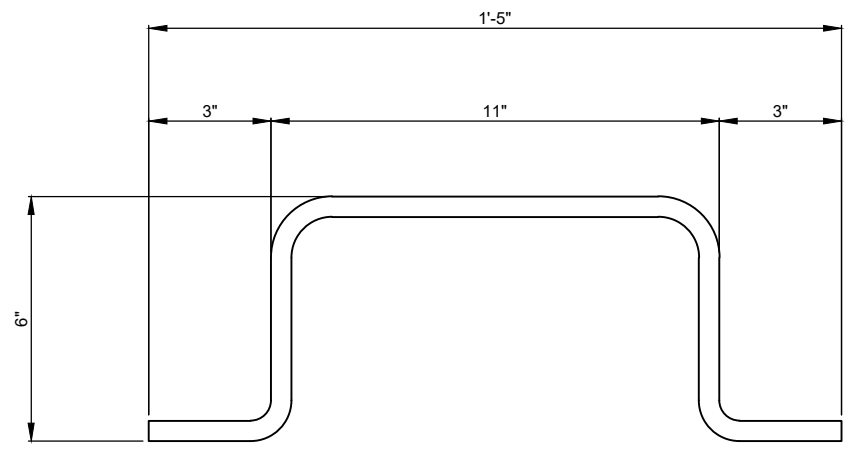
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	A434
TITLE:	TYPICAL 48MM PT-PLUS DUCT TO DUCT CONNECTION W/ 76MM DUCT

structural TECHNOLOGIES
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 structuraltechnologies.com

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

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4 48mm Grouted



VSLAB 6-4 LOCAL ZONE REINFORCEMENT

- NOTES:
1. FINAL DESIGN AND DETAILS OF LOCAL ZONE REINFORCEMENT ARE PROJECT SPECIFIC.
 2. LOCAL ZONE REINFORCEMENT HAS SPACING PRIORITY.

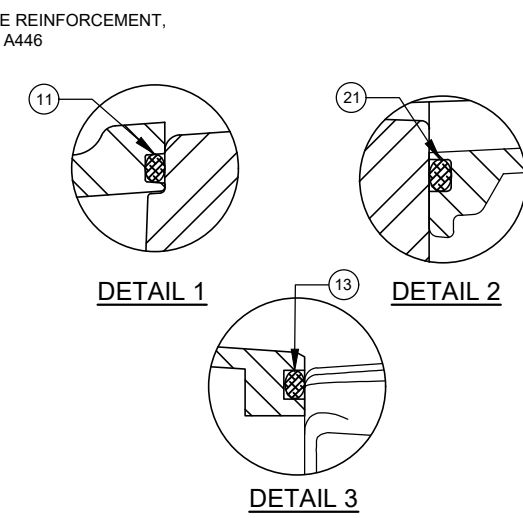
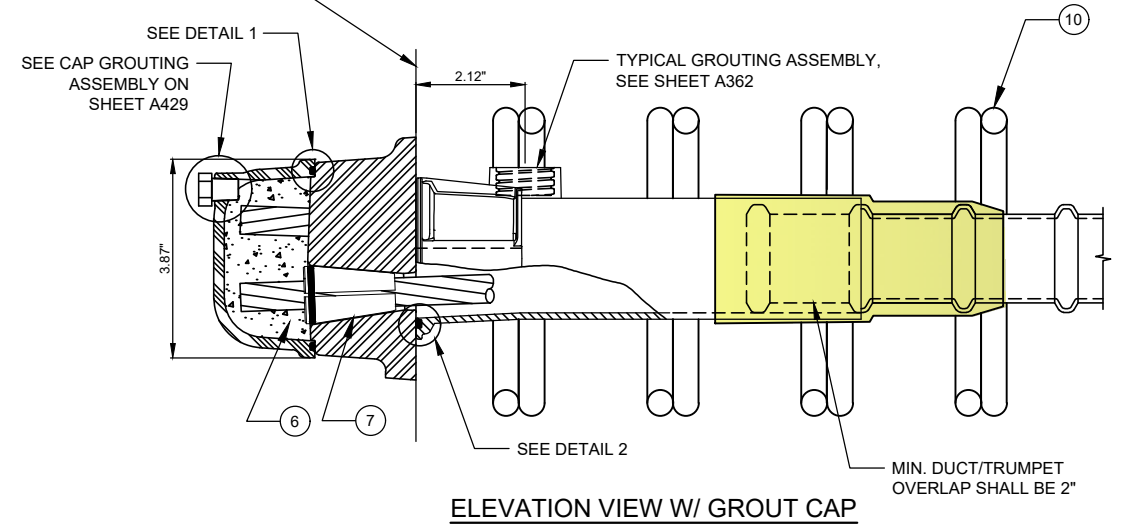
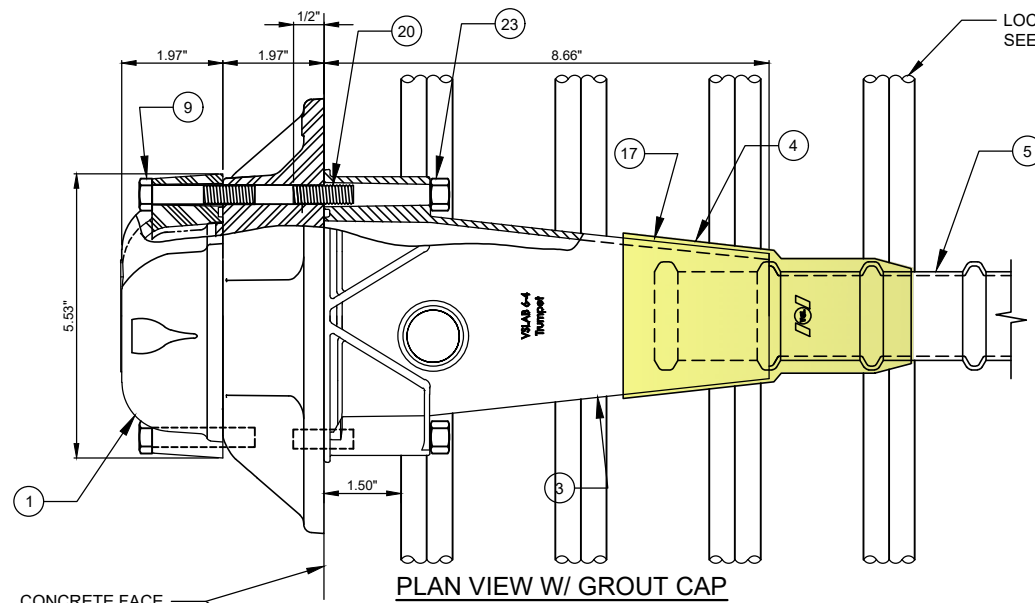
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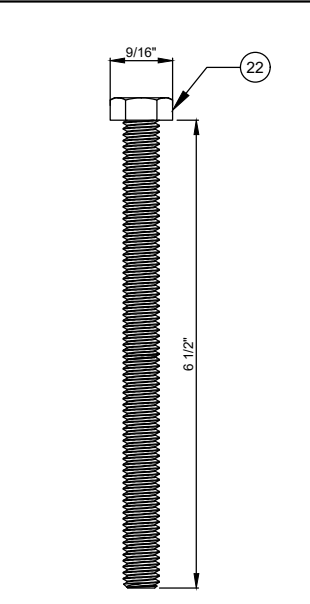
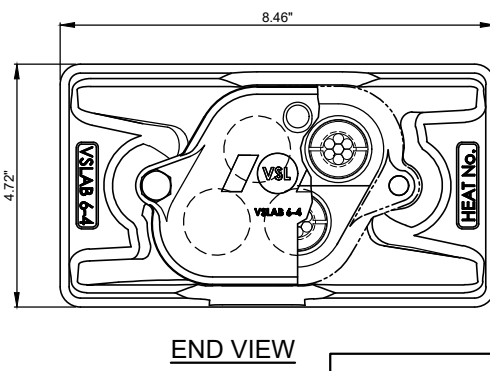
DESCRIPTION	MATERIAL	INVENTORY #
VSLAB 6-4 LOCAL ZONE REINFORCEMENT	STEEL GR60 PER ASTM A615	02VS0625

<p>structural TECHNOLOGIES</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) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		DESCRIPTION	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>TITLE: VSLAB 6-4 ANCHORAGE LOCAL ZONE REINFORCEMENT FOR MODERATELY AGGRESSIVE ENVIRONMENTS</p>		NO		
<p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A446</p>		SCALE: NTS		

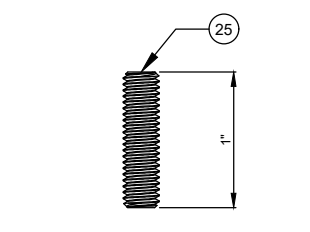
ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 48mm Grouted



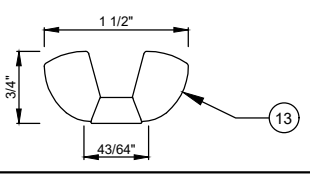
NOTES:
 1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
 2. IF ISSUE ENCOUNTERED WITH EMBEDDED NUT SPINNING, STAINLESS STEEL WING NUTS WILL BE REQUIRED.



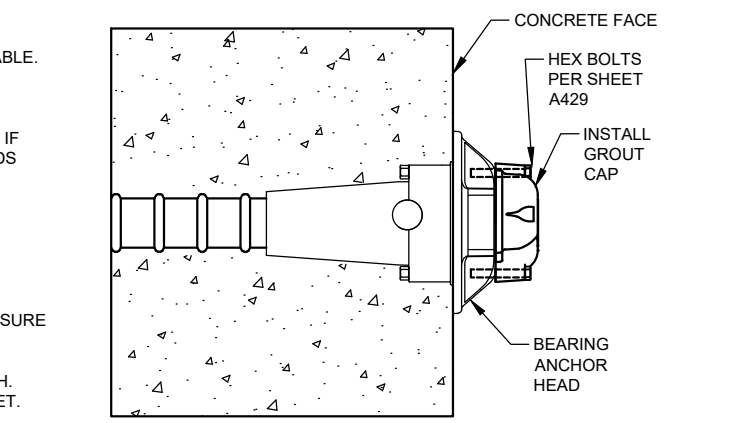
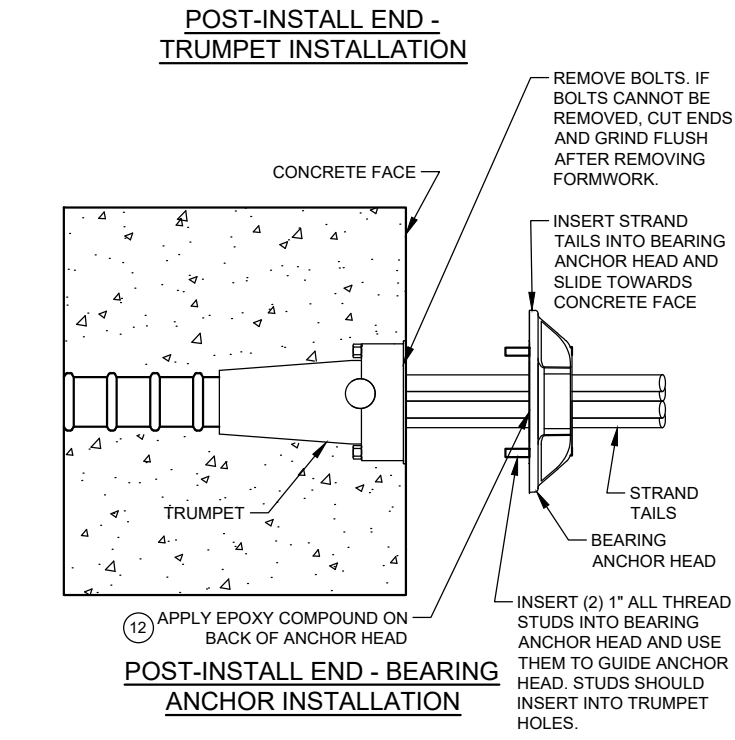
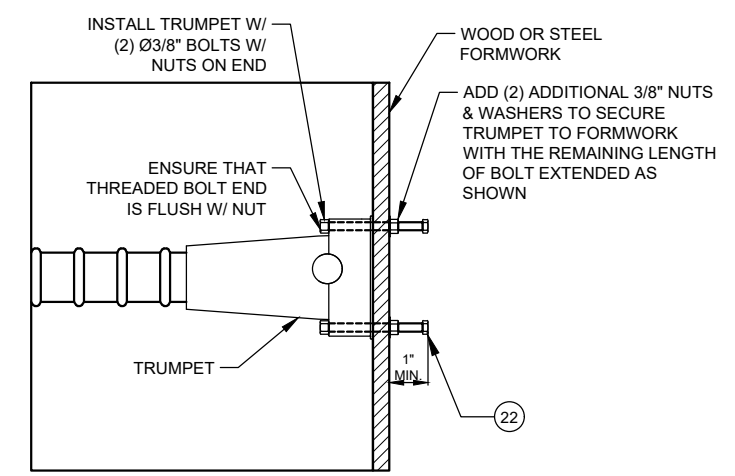
3/8"Ø UNC HEX BOLT
P/N: 02VS06423



3/8"Ø UNC ALL THREAD
P/N: 02VS06424



3/8"Ø UNC WING NUT
P/N: 02VS06425



- WHEN AT LEAST ONE END IS OPEN, REFER TO POST-INSTALL PROCEDURE BELOW
- CUT DUCT TO THE CORRECT LENGTH AND PREPARE ANY REQUIRED GROUT VENTS (SEE SHEET A431), IF APPLICABLE.
 - ATTACH TRUMPETS TO EACH END OF THE DUCT WITH HEAT SHRINK (DO NOT INSTALL STRAND YET).
 - HEAT UP THE HEAT SHRINK TO WRAP THE TRUMPET AND DUCT CONNECTION.
 - INSTALL ANCHOR HEAD AND GROUT CAPS, PLUG ALL OPEN PORTS TO PROVIDE AN AIR-TIGHT SYSTEM.
 - PRESSURIZE DUCT TO 7.5 PSI AND LOCK-OFF OUTSIDE AIR SOURCE. RECORD PRESSURE LOSS FOR ONE MINUTE. IF PRESSURE LOSS EXCEEDS 0.75 PSI, OR 10%, FIND AND REPAIR LEAKS IN DUCT ASSEMBLY USING REPAIR METHODS APPROVED BY THE ENGINEER AND RETEST. AFTER TESTING, REMOVE ANCHOR HEADS AND GROUT CAPS.
 - SECURE TRUMPETS TO ITS FINAL POSITION TO THE FORMWORK OR POCKET FORMER.
 - ENSURE DUCT IS TIED OFF EVERY 2 FEET.
 - PROCEED WITH CONCRETING.
 - STRIP FORMWORK AND POCKET FORMERS, IF APPLICABLE.
 - REMOVE BOLTS AND OUTER NUTS AND WASHERS FROM TRUMPET.
 - IF BOLTS CANNOT BE REMOVED, CUT OFF BOLT HEADS AND SLIDE FORMWORK OFF. PLACE ANCHOR HEAD AGAINST CONCRETE USING BOLTS AS GUIDE AND MARK ON CONCRETE THE ANCHOR HEAD LOCATION TO ENSURE CORRECT ALIGNMENT. REMOVE ANCHOR HEAD & GRIND REMAINING BOLT STEM FLUSH WITH CONCRETE.
 - INSTALL REQUIRED NUMBER OF STRANDS THROUGH THE DUCT.
 - PROCEED WITH ANCHOR HEAD INSTALLATION AND STRESSING WHEN CONCRETE REACHES REQUIRED STRENGTH.
 - INSTALL 1" ALL THREAD INTO ANCHOR HEAD. USE ALL THREAD STUDS TO ALIGN ANCHOR HEAD WITH TRUMPET.
 - IF BOLTS HAD TO BE GROUND FLUSH, SKIP THIS STEP AND USE STRANDS TO ALIGN ANCHOR HEAD.
 - APPLY FDOT APPROVED EPOXY BETWEEN CONCRETE AND ANCHOR HEADS.
 - INSTALL ANCHOR HEADS AND WEDGES IMMEDIATELY AFTER APPLYING EPOXY.
 - IMMEDIATELY BEGIN STRESSING PROCEDURE.
 - CUT & CAP. AFTER ELONGATIONS ARE CONFIRMED WITHIN TOLERANCE, CUT OFF STRAND TAILS AND LEAVE MAXIMUM 1.25" LENGTH. INSTALL GROUT CAP.
 - PROCEED WITH TENDON PRESSURE TEST AS REQUIRED BY FDOT SPECIFICATIONS. IN THE PRESENCE OF THE ENGINEER OR REPRESENTATIVE, PRESSURIZE DUCT TO 50 PSI AND LOCK-OFF OUTSIDE AIR SOURCE. RECORD PRESSURE LOSS FOR ONE MINUTE. A PRESSURE LOSS LESS THAN 25 PSI OR 50% IS ACCEPTABLE FOR DUCTS WITH A LENGTH EQUAL TO OR LESS THAN 150 FEET AND A PRESSURE LOSS LESS THAN 15 PSI IS ACCEPTABLE FOR DUCTS LONGER THAN 150 FEET. IF PRESSURE LOSS EXCEEDS ALLOWABLE, REPAIR LEAKING CONNECTIONS USING METHODS APPROVED BY THE ENGINEER AND RETEST.
 - PROCEED WITH GROUTING OPERATION WITHIN 14 DAYS AFTER STRAND INSTALLATION.

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG#
1	1	VSLAB 6-4 GROUT CAP	ABS LUSTRAN 633 PER ASTM D4673	02VS06415	C654
2	1	VSLAB 6-4 ANCHOR HEAD GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02VS06410	C652
3	1	VSLAB 6-4 TRUMPET	BLACK POLYPROPYLENE PER ASTM D4101	02VS06405	C653
4	1	HEAT SHRINK SLEEVE CANUSA PLA-55-YE (6" LONG)	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0501	C870
5	1	DUCT WHT PP, 48MM PT-PLUS	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411	C684E
6	-	GROUT	PREMIUM NON-BLEED PER FDOT APL	-	-
7	4	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17 PER ASTM A108	02WG0008	C218
9	2	3/8"Ø UNC X 2" LONG HEX BOLT	316 STAINLESS PER ASTM F593	02VS06407D	A429
10	-	VSLAB 6-4 LOCAL ZONE REINFORCEMENT	STEEL GR60 PER ASTM A615	02VS0625	A446
11	1	VSLAB 6-4 GROUT CAP QUAD-RING (-241)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02VS06403	C699
12	-	EPOXY COMPOUND	PER FDOT 960-1.1 SECTION 926	-	-
13	2	3/8"Ø UNC WING NUT	316 STAINLESS PER ASTM A240	02VS06426	A447
17	-	BONDUIT	COMMERCIALLY AVAILABLE	-	-
18	-	SILICONE GREASE	COMMERCIALLY AVAILABLE	-	-
20	2	3/8"Ø UNC X 1" LONG ALL-THREAD STUD	316 STAINLESS PER ASTM F593	02VS06406	A447
21	1	VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02VS06406	C793
22	2	3/8"Ø UNC X 6.5" LONG FULLY THREADED BOLT	316 STAINLESS PER ASTM F593	02VS06423	A447
23	4	3/8"Ø NUT	316 STAINLESS PER ASTM A240	02VS06421	A429
24	2	3/8"Ø FLAT WASHER	316 STAINLESS PER ASTM A240	02VS06422	A429
25	1	3/8" NPT GROUT PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01934	C789

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CORPORATE OFFICE

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structuraltechnologies.com

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

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

BY

CHK

DATE

NO

0

29JUN2020

SYSTEM DRAWING

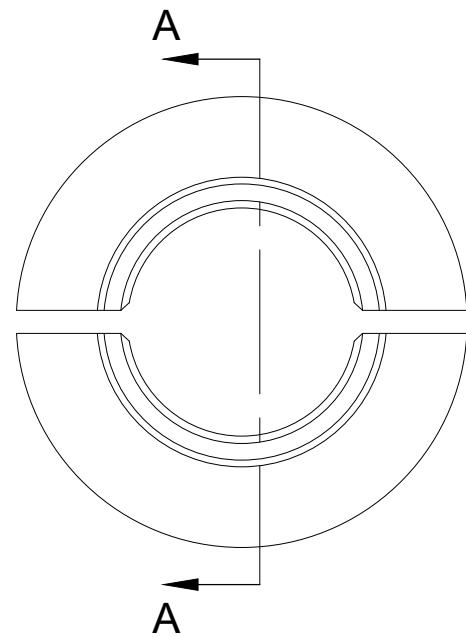
VSLAB 6-4 GROUTED W/ 48MM DUCT
POST-INSTALL PROCEDURE

PROJECT NO: SYSTEM

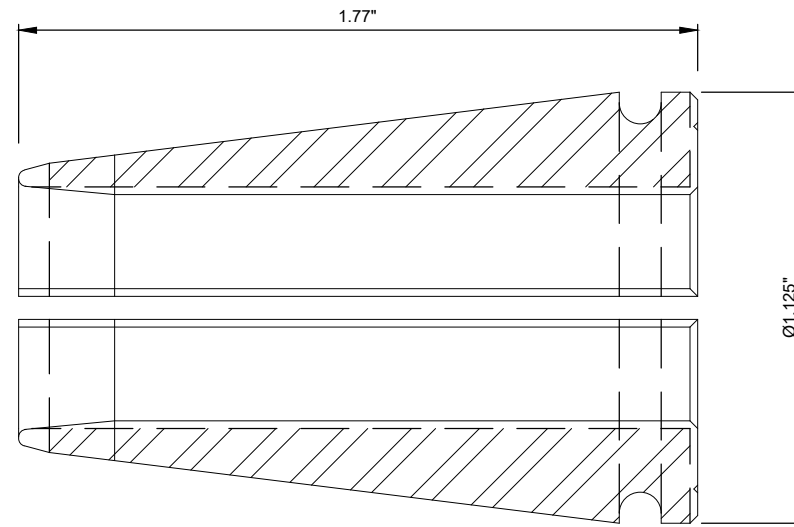
SCALE: NTS

SHEET NO: A447

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

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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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:

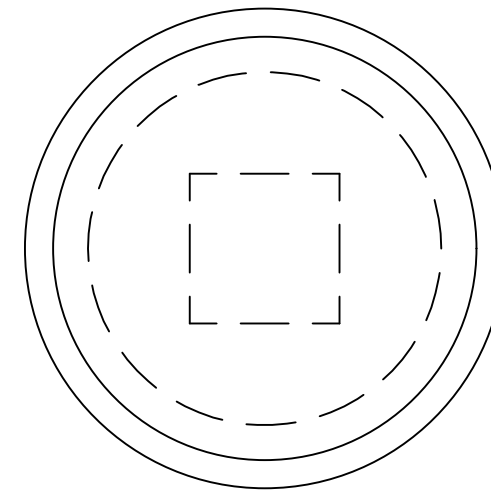
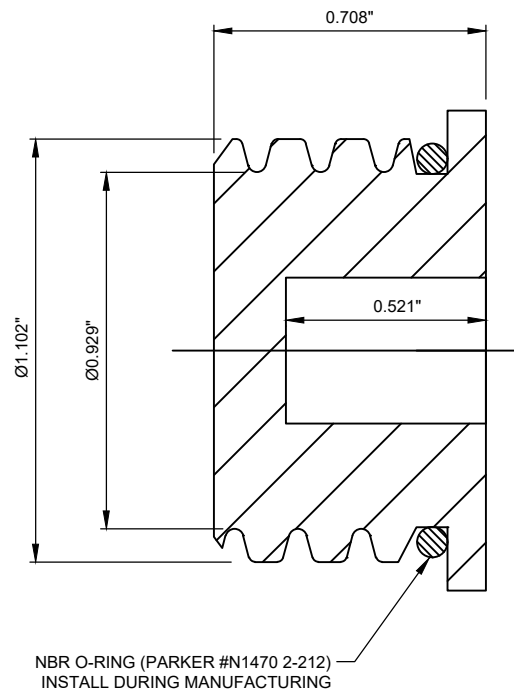
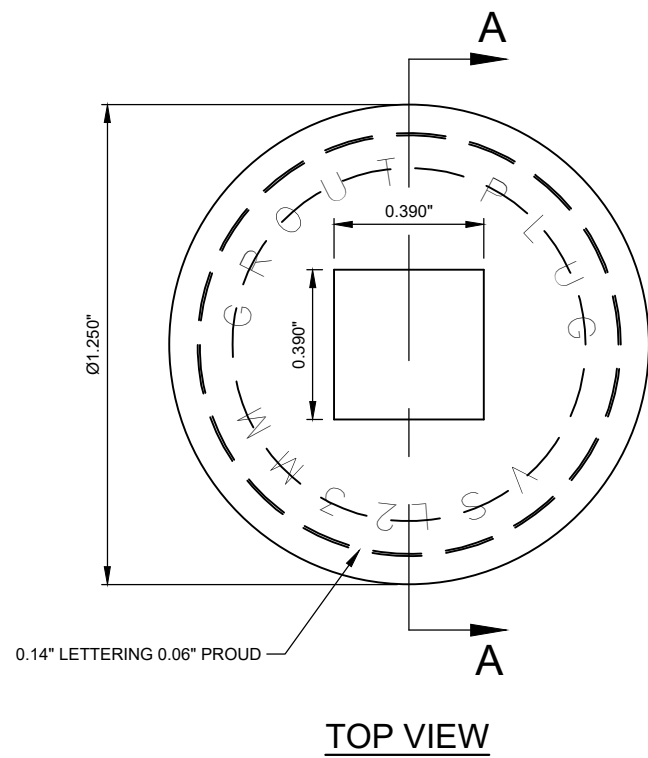
PROJECT NO:	SYSTEM
SHEET NO:	C218
TITLE:	0.6" MULTIWEDGE TYPE 1.6G

NO	APPROVED FOR CONSTRUCTION
----	---------------------------

BY	CDL ZX	DATE	29JAN2020
DESCRIPTION	APPROVED FOR CONSTRUCTION		

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



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	BEARING PLATE GROUT PLUG 23MM
PROJECT NO: SYSTEM	SCALE: NTS
SHEET NO:	C583

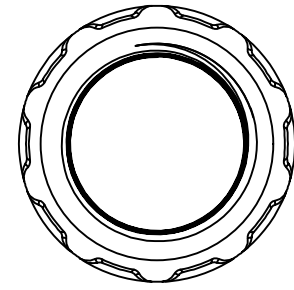
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046

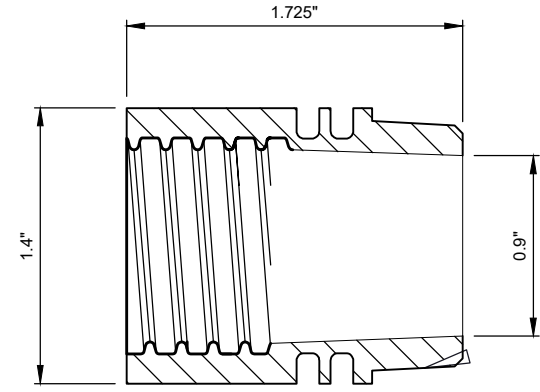
PHONE: (410) 860-7000
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4_48mm_Grouted



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
EXTERNAL GROUT PORT 23MM	BLACK POLYPROPYLENE PER ASTM D4101	02DT0250

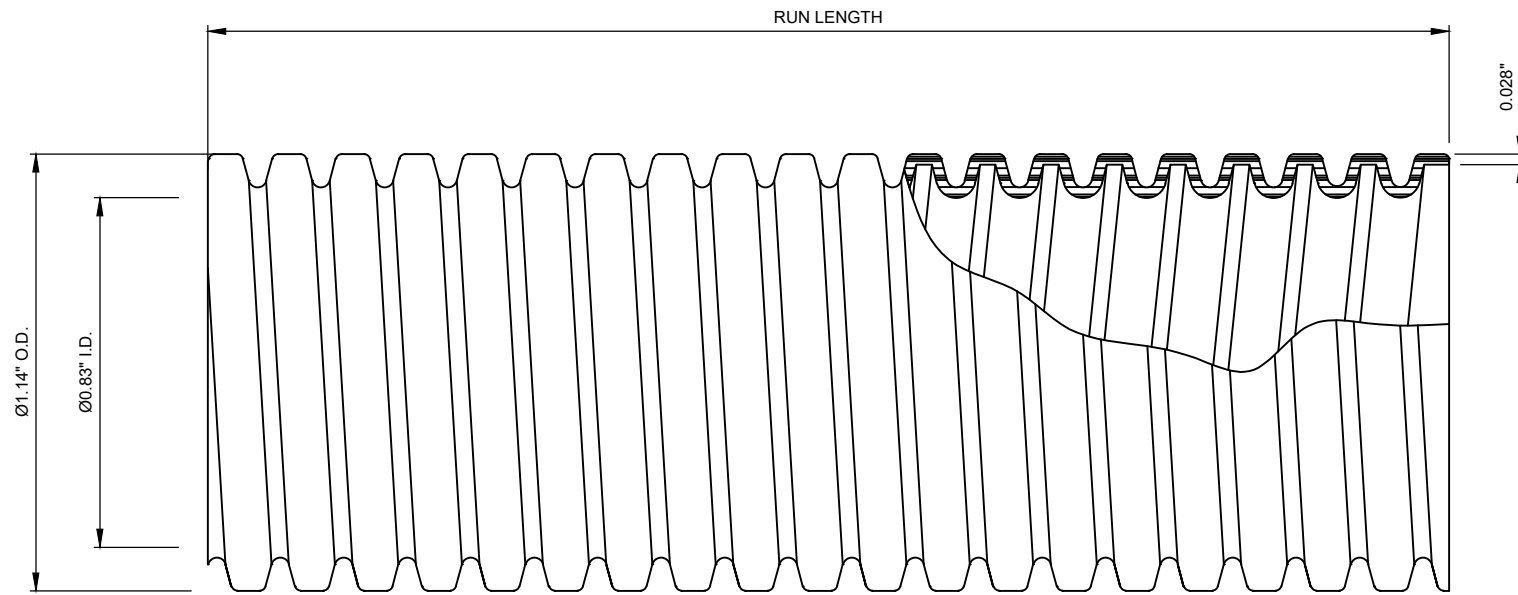
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	EXTERNAL GROUT PORT 23MM
SHEET NO:	C585
SCALE:	NTS

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

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



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
23MM GROUT HOSE	HDPE BLACK PER ASTM D3350	02DT0310

PROJECT INFORMATION:

SYSTEM DRAWING

23MM GROUT HOSE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C587

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

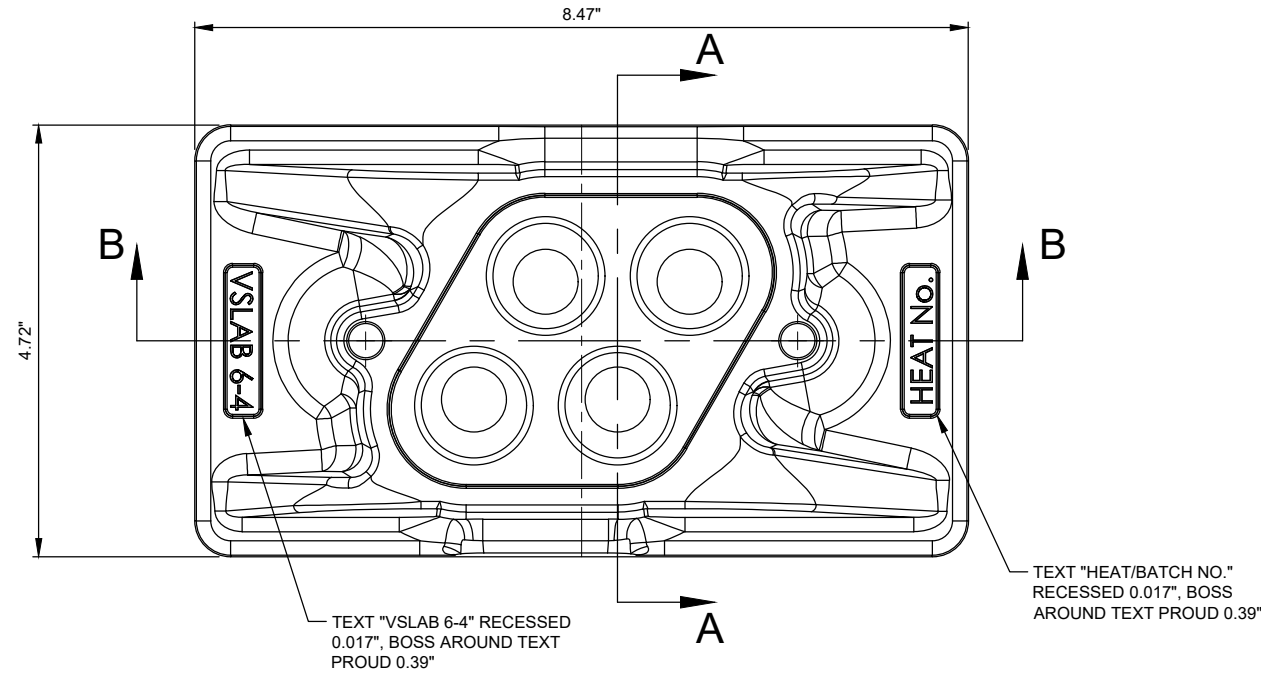
29JAN2020

DATE

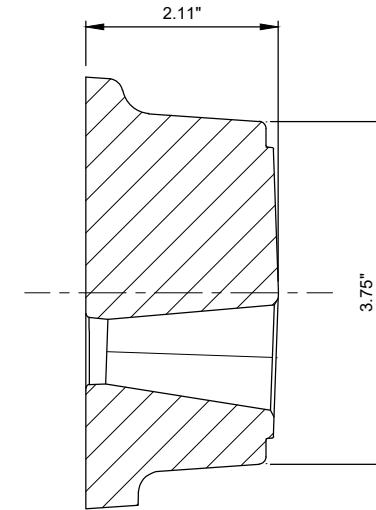
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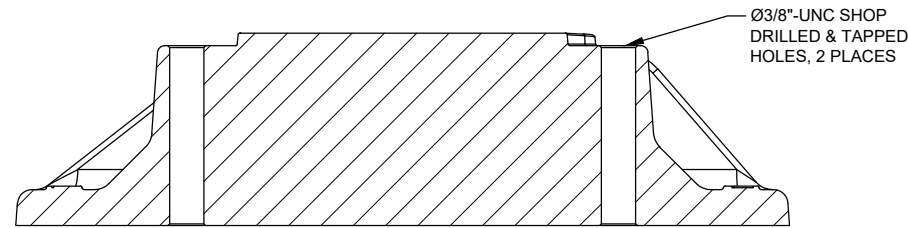
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 Grouted System



FRONT VIEW



SECTION A-A



SECTION B-B

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DESCRIPTION	MATERIAL	INVENTORY #
VSLAB 6-4 ANCHOR HEAD GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02VS06410

PROJECT INFORMATION:

SYSTEM DRAWING

VSLAB 6-4 ANCHORAGE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C652

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APPROVED FOR CONSTRUCTION

DESCRIPTION

NO

BY

CHK

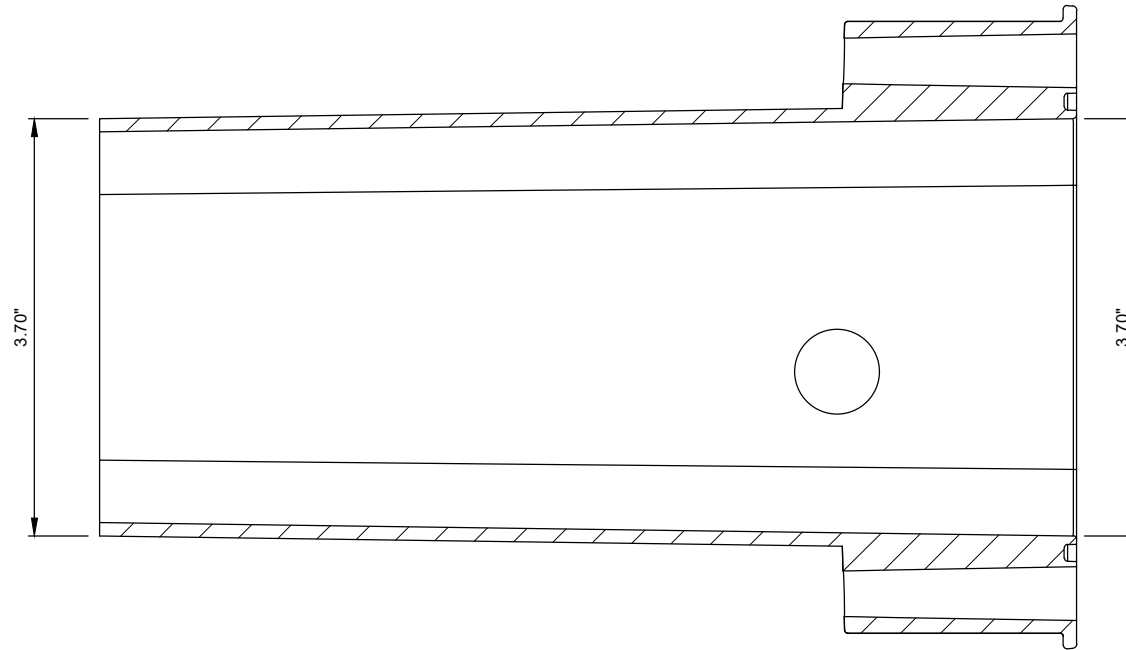
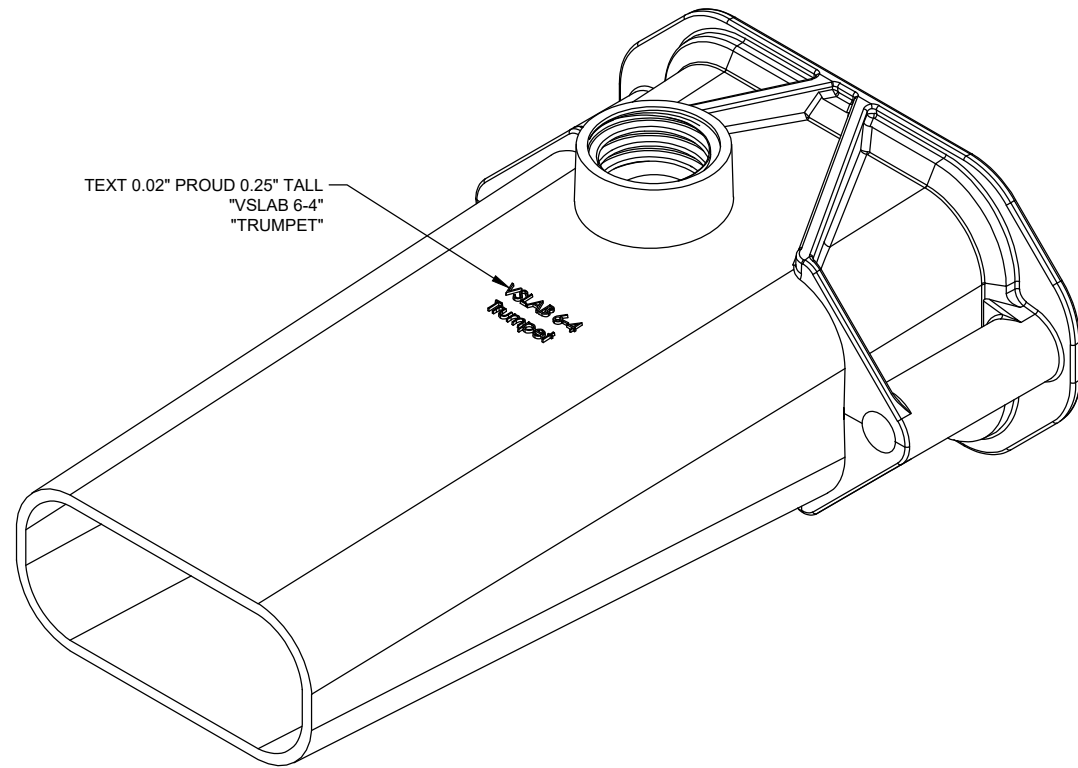
DATE

29JAN2020

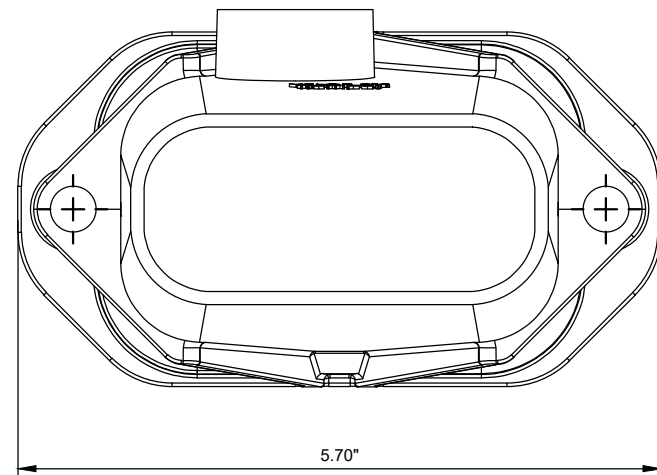
ZX

CDL

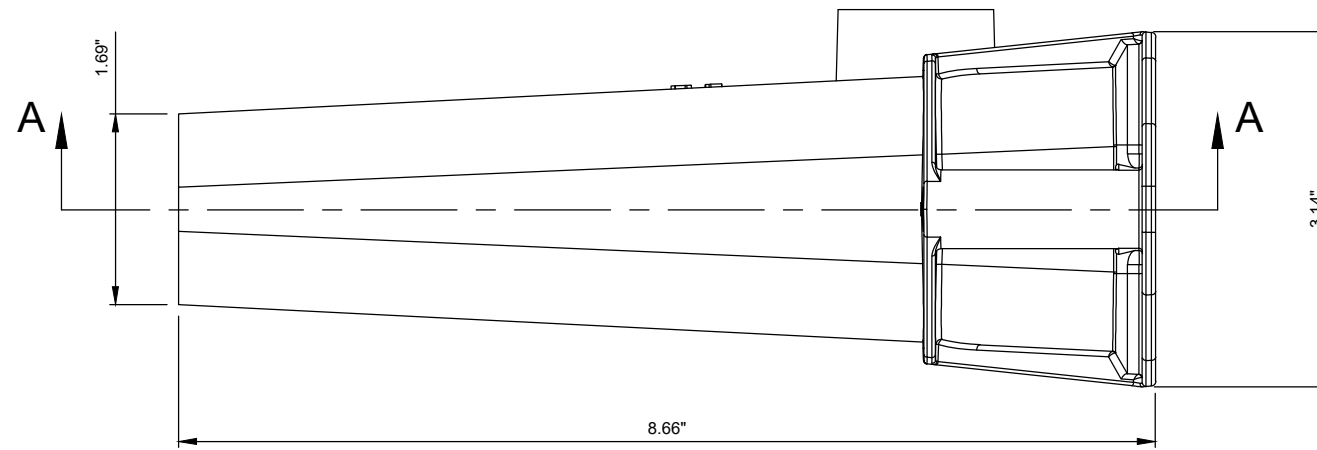
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 Grouted System



SECTION A-A



FRONT VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
VSLAB 6-4 TRUMPET	BLACK POLYPROPYLENE PER ASTM D4101	02VS06405

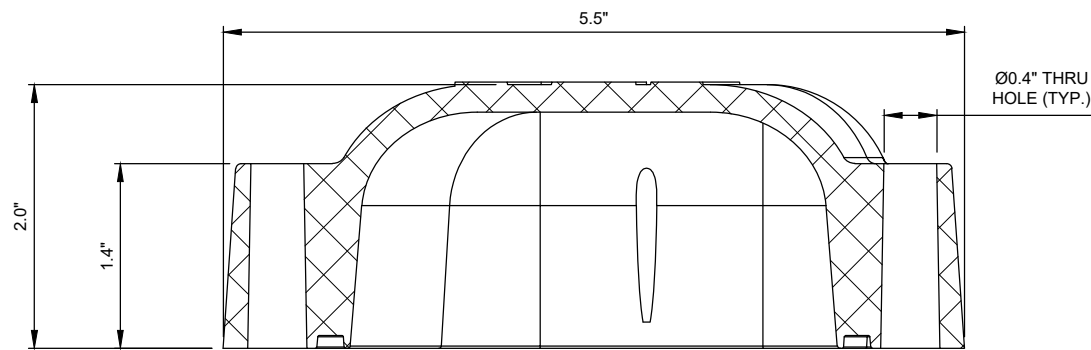
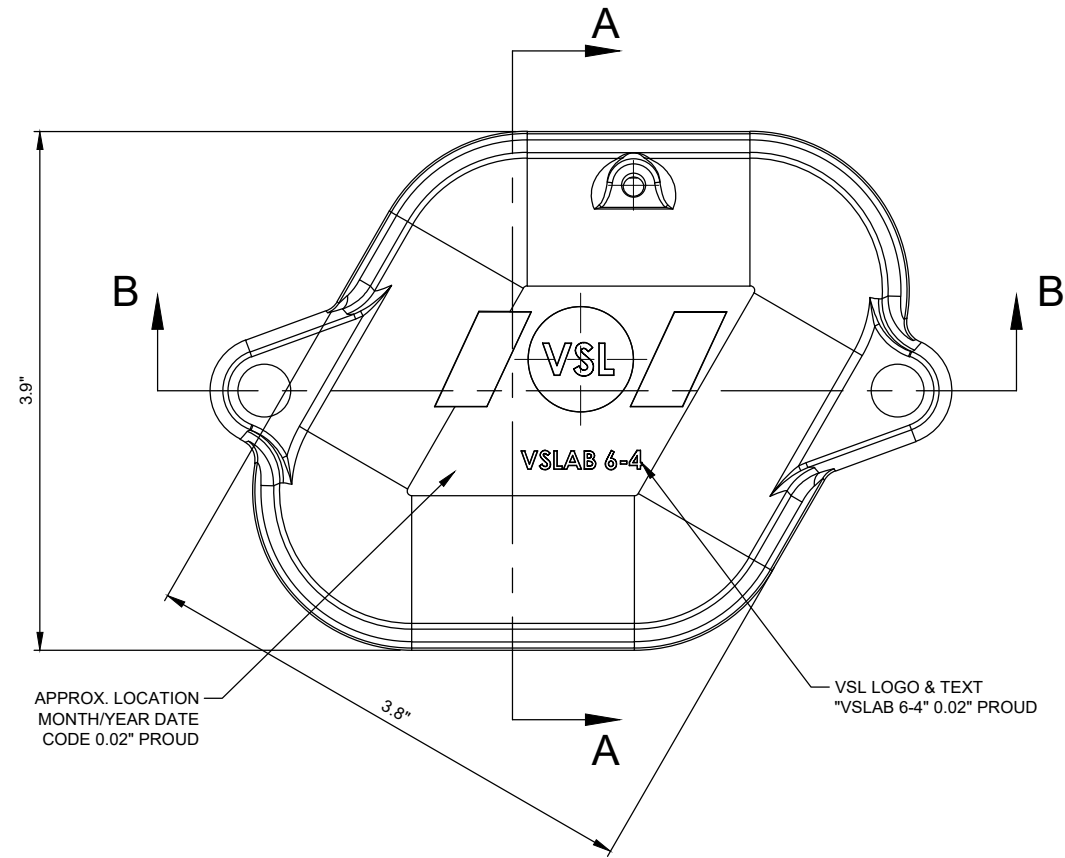
NO	APPROVED FOR CONSTRUCTION	CDL	ZX	29JAN2020
	DESCRIPTION	BY	CHK	DATE

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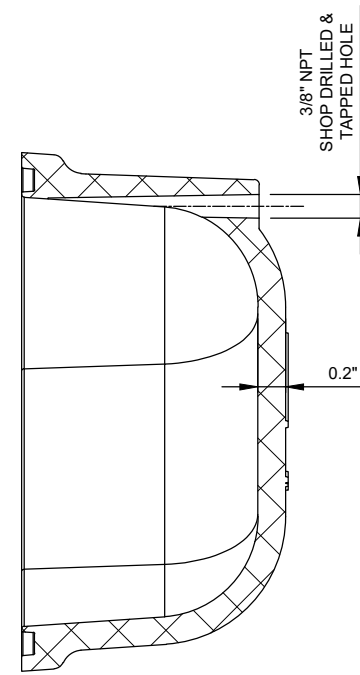
STRUCTURAL TECHNOLOGIES, LLC
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046
 CORPORATE OFFICE

PROJECT INFORMATION:	SYSTEM DRAWING	VSLAB 6-4 TRUMPET
PROJECT NO:	SYSTEM	SCALE: NTS
SHEET NO:		C653

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 Grouted System



SECTION B-B



SECTION A-A

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DESCRIPTION	MATERIAL	INVENTORY #
VSLAB 6-4 GROUT CAP W/ 3/8" PORT	ABS LUSTRAN 633 PER ASTM D4673	02VS06415

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
VSLAB 6-4 GROUT CAP W/ 3/8" PORT

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

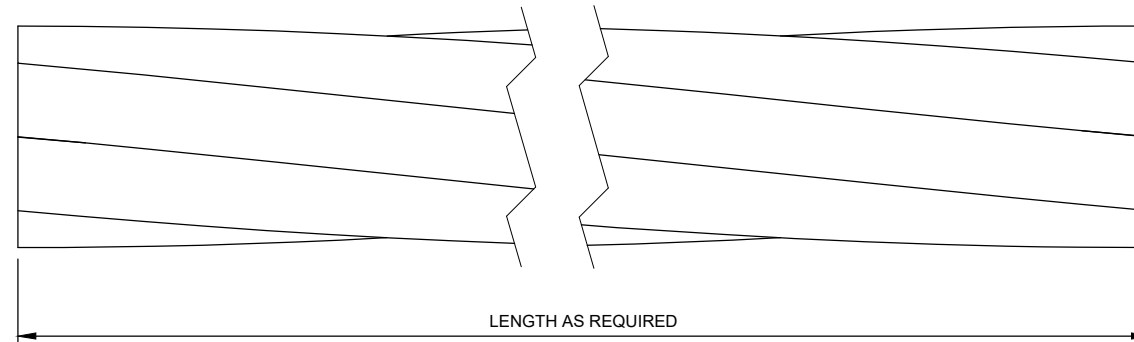
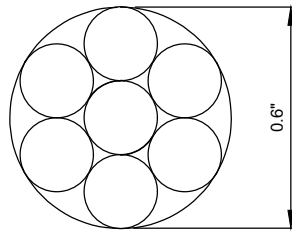
C654

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

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

SHEET NO:

SCALE:
NTS

C674

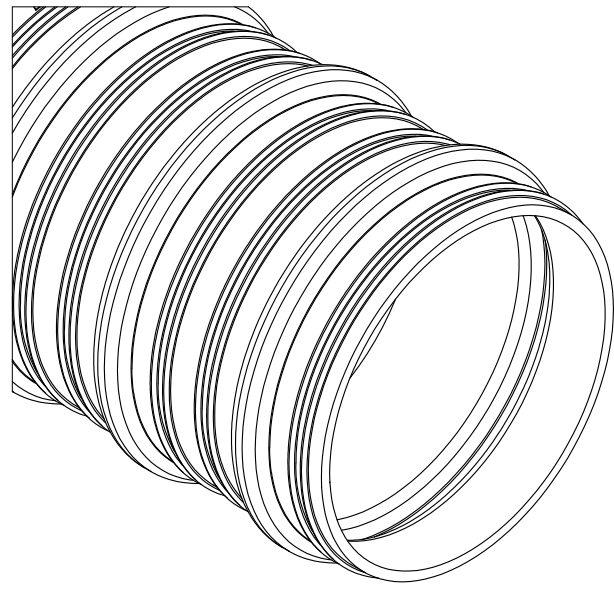
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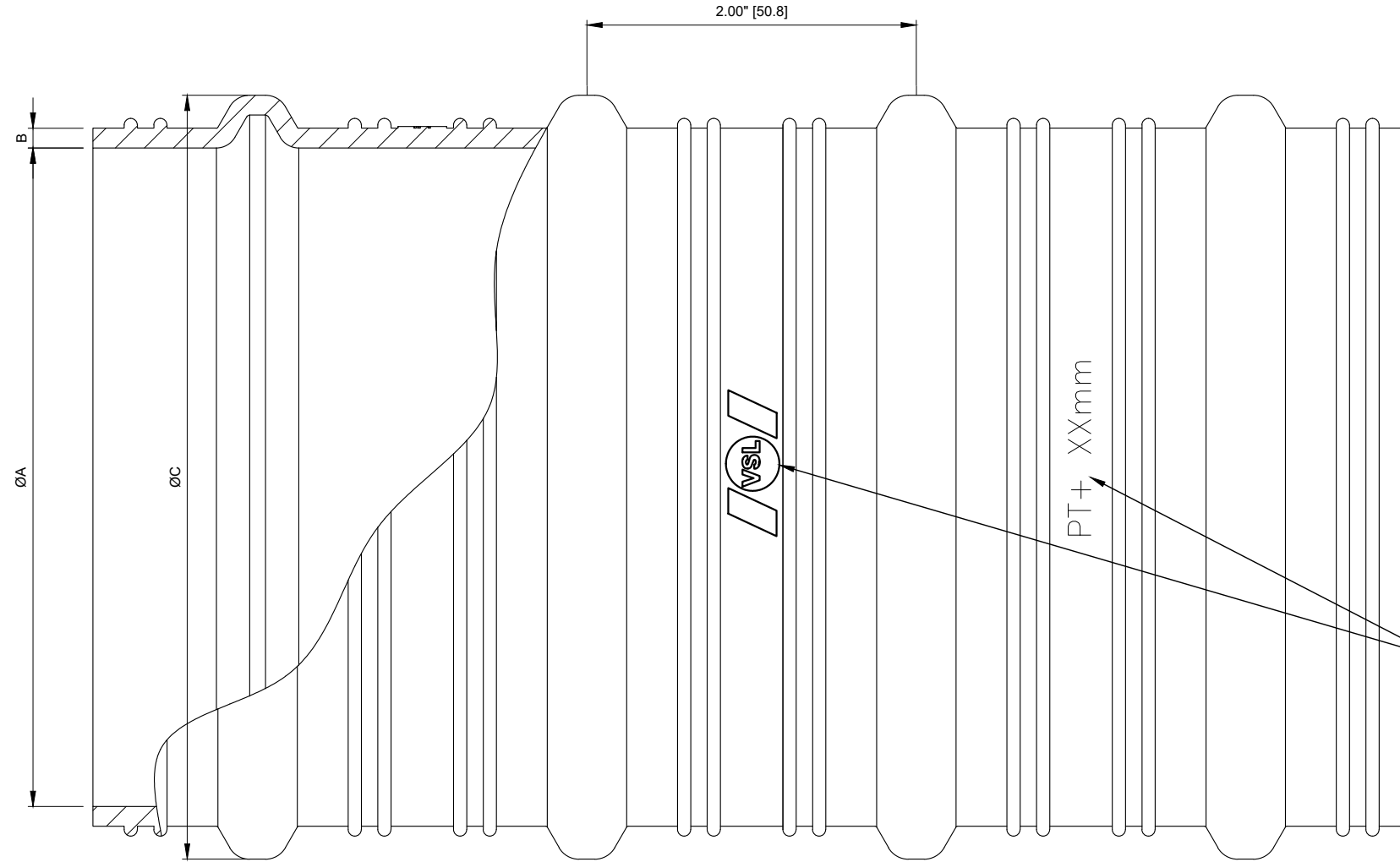
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CORPORATE OFFICE COLUMBIA, MD 21046 structuraltechnologies.com

NO	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\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:
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 A RUNNING LABEL WILL INCLUDE AT A
 MINIMUM:
 - VSL LOGO
 - DUCT SIZE
 - DATE OR BATCH CODE

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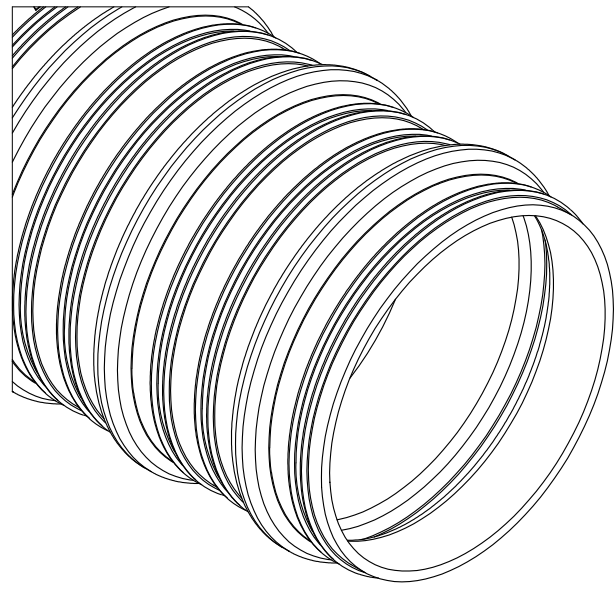
DUCT TYPE	ØA - DUCT INNER DIAMETER, INCHES (MM)	B - WALL THICKNESS NOMINAL, INCHES (MM)	ØC - DUCT MAJOR DIAMETER NOM., INCHES (MM)	MATERIAL	INVENTORY #
59MM	2.32 (59)	0.1 (2.54)	2.87 (73)	WHITE POLYPROPYLENE PER ASTM D4101	02DT0412

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

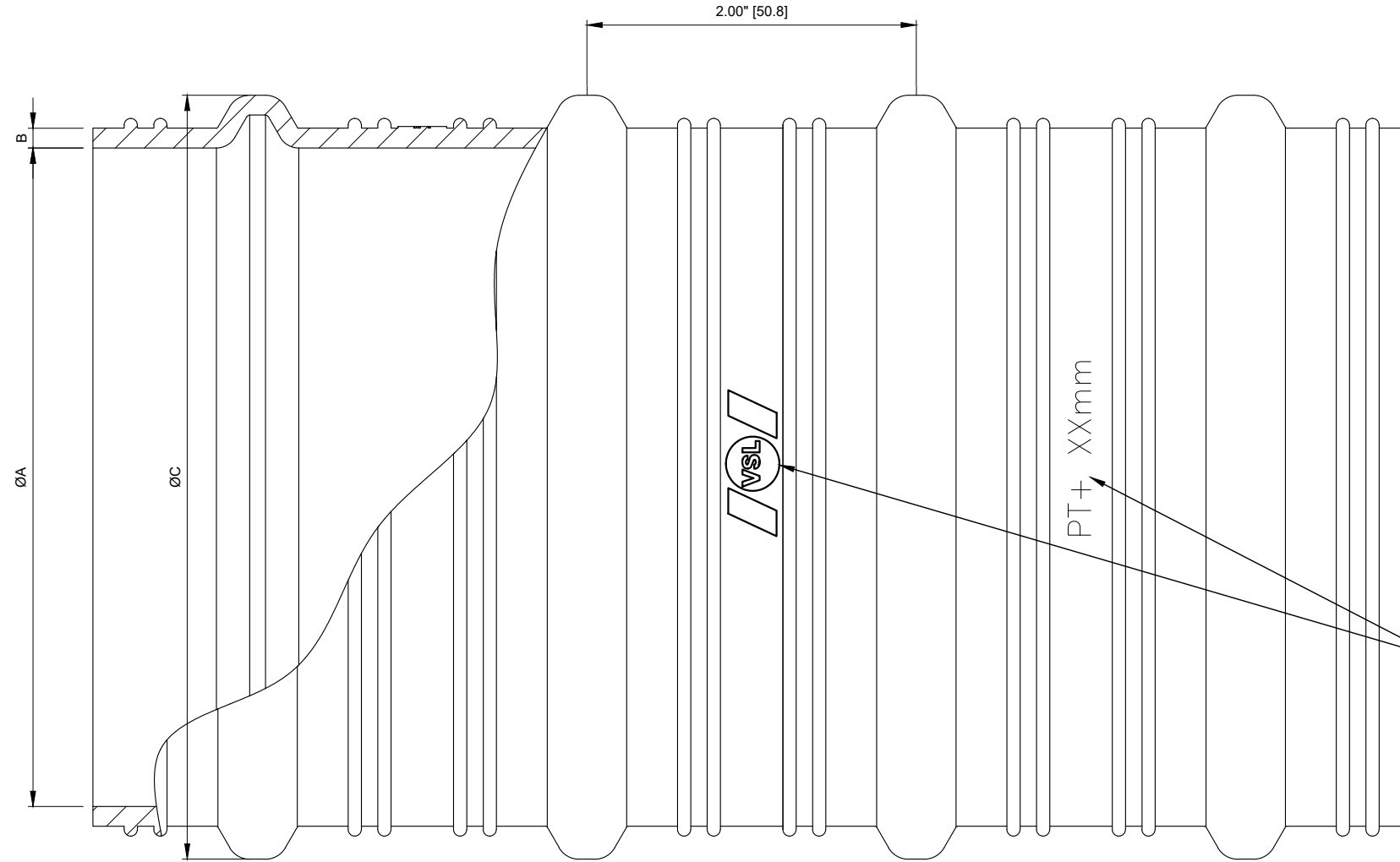
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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PROJECT INFORMATION:	
SYSTEM DRAWING	TITLE: VSL 59MM PT-PLUS ROUND DUCT
PROJECT NO: SYSTEM	SCALE: NTS
SHEET NO:	C684A

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Grouting 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)

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 - 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 #
76MM	2.99 (76)	0.12 (3.05)	3.58 (91)	WHITE POLYPROPYLENE PER ASTM D4101	02DT0426

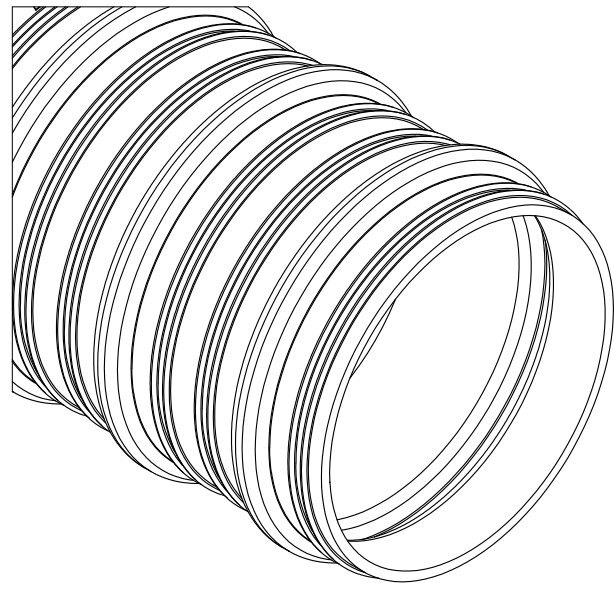
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	DATE

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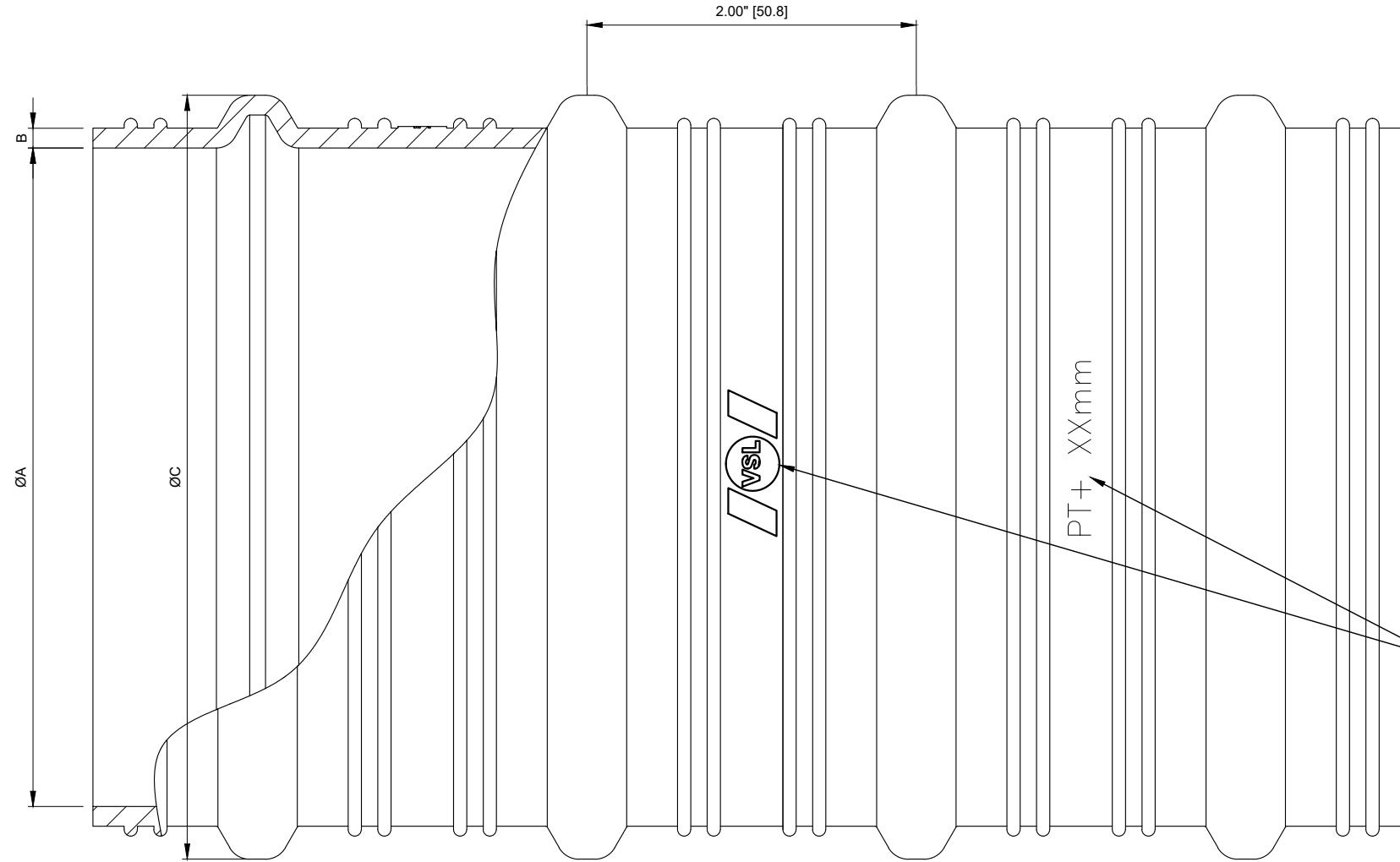
STRUCTURAL TECHNOLOGIES, LLC
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046
 CORPORATE OFFICE

PROJECT INFORMATION:	
SYSTEM DRAWING	VSL 76MM PT-PLUS ROUND DUCT
TITLE:	NTS
PROJECT NO:	SCALE:
SYSTEM	NTS
SHEET NO:	C684B

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)

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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 #
48MM	1.89 (48)	0.1 (2.54)	2.49 (63)	WHITE POLYPROPYLENE PER ASTM D4101	02DT0411

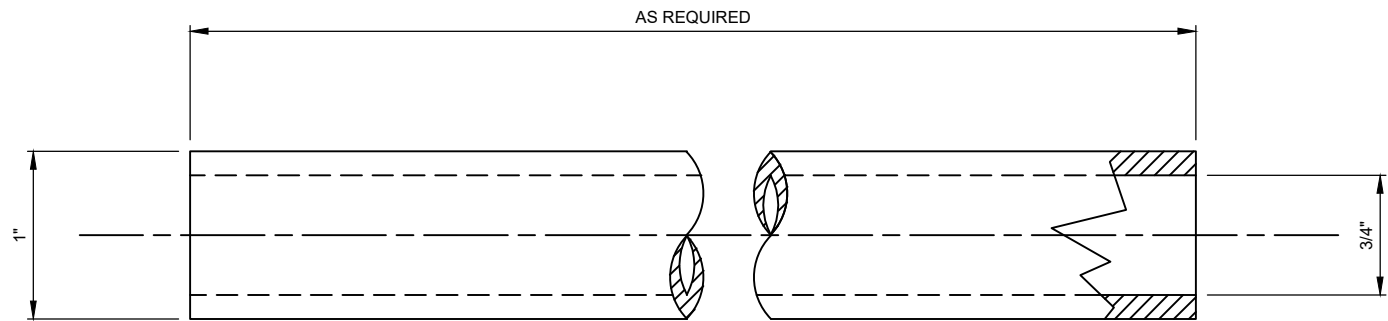
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

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 COLUMBIA, MD 21046
 CORPORATE OFFICE

PROJECT INFORMATION:	
SYSTEM DRAWING	VSL 48MM PT-PLUS ROUND DUCT
TITLE:	NTS
PROJECT NO:	SCALE:
SYSTEM	NTS
SHEET NO:	C684E

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

PROJECT INFORMATION:

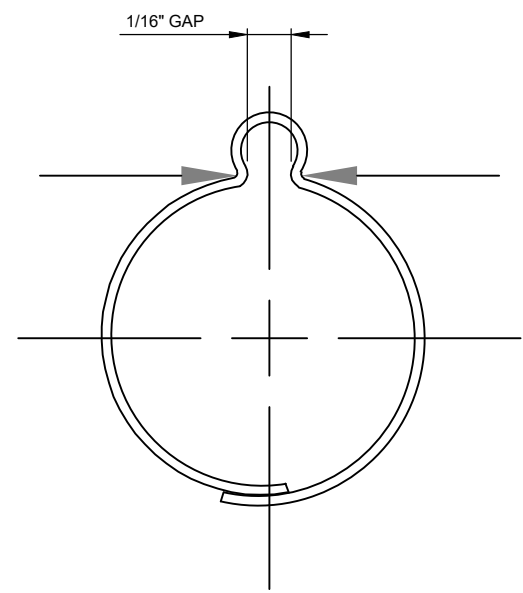
PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	3/4" SMOOTH HOSE

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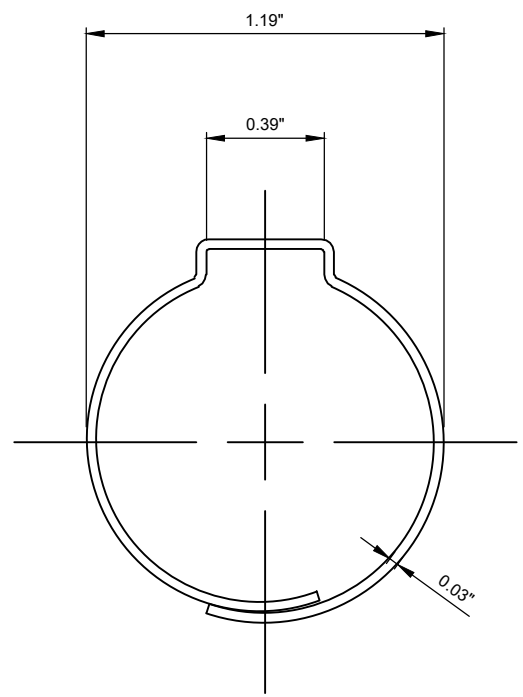
CDL	ZX	29JAN2020
BY	CHK	DATE
DESCRIPTION		

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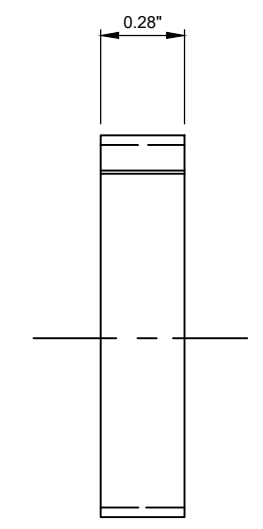
ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



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

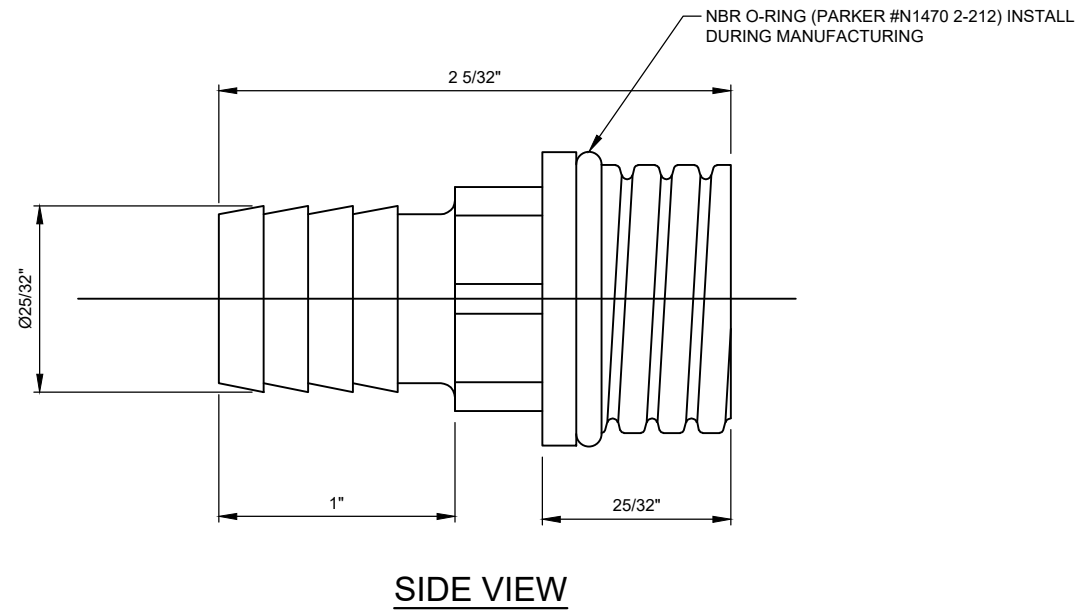
PROJECT INFORMATION:

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

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

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 23MM FITTING	BLACK POLYPROPYLENE PER ASTM D4101	02DT01903

PROJECT INFORMATION:

SYSTEM DRAWING

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

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C692

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

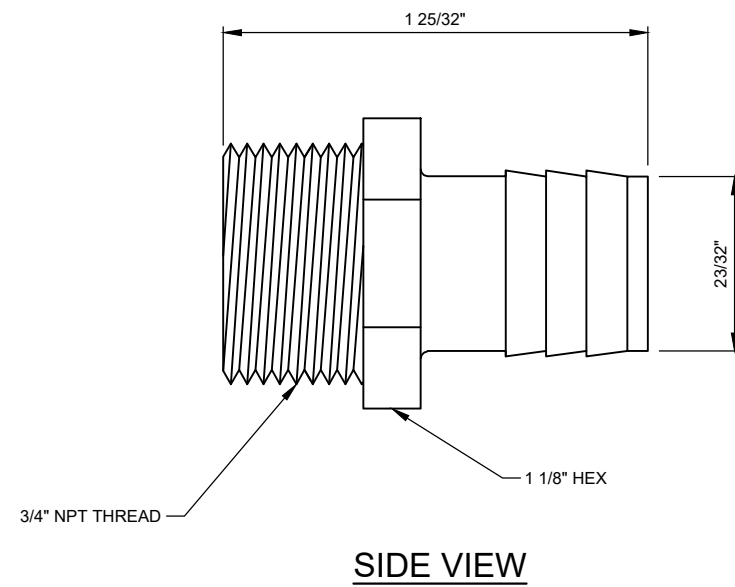
DATE

29JAN2020

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SIDE VIEW

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

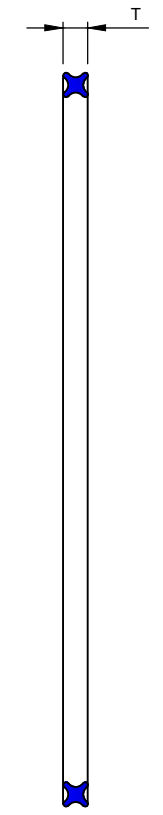
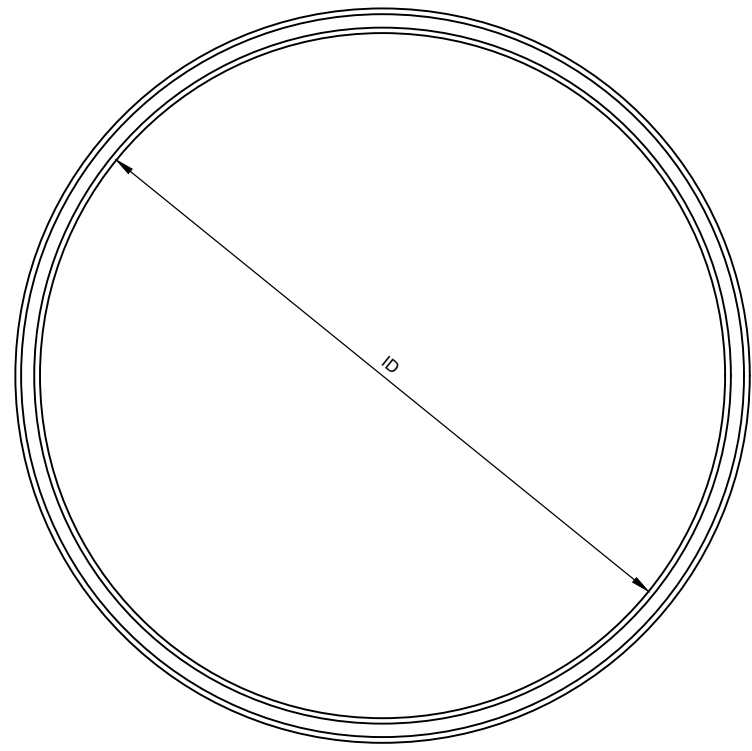
PROJECT INFORMATION:

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

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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\SLAB 6-4 Grouted System



DESCRIPTION	MATERIAL	ID	T	INVENTORY #
VSLAB 6-4 GROUT CAP QUAD-RING (-241)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	3.859"	0.139"	02VS06403
VSLAB 6-4 POCKET FORMER QUAD-RING (-242)	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	3.984"	0.139"	02VS06412

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PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	QUAD RINGS FABRICATION

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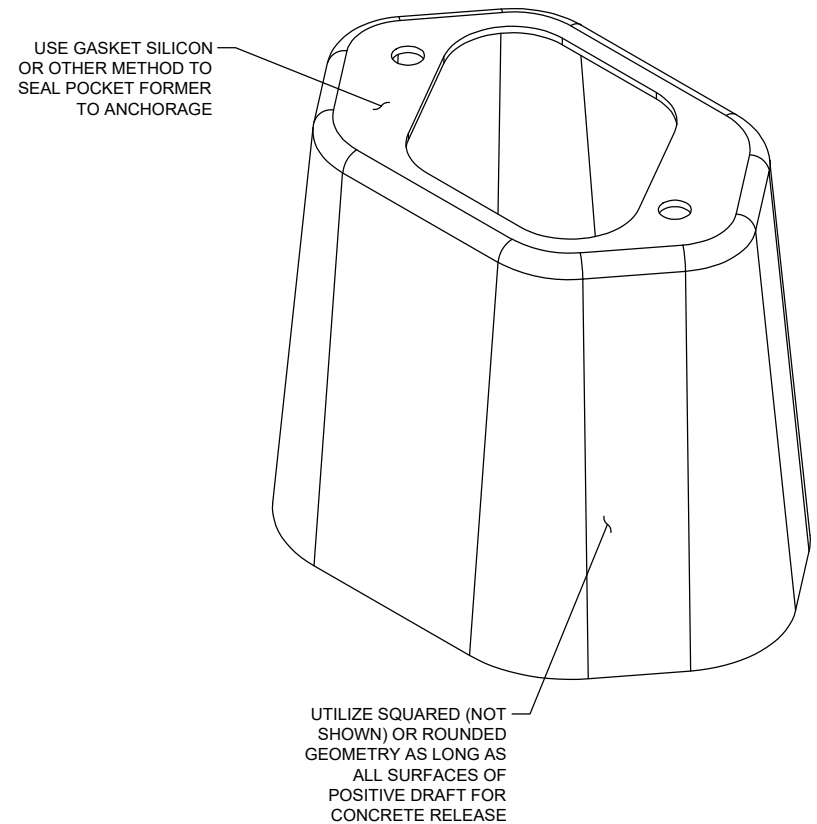
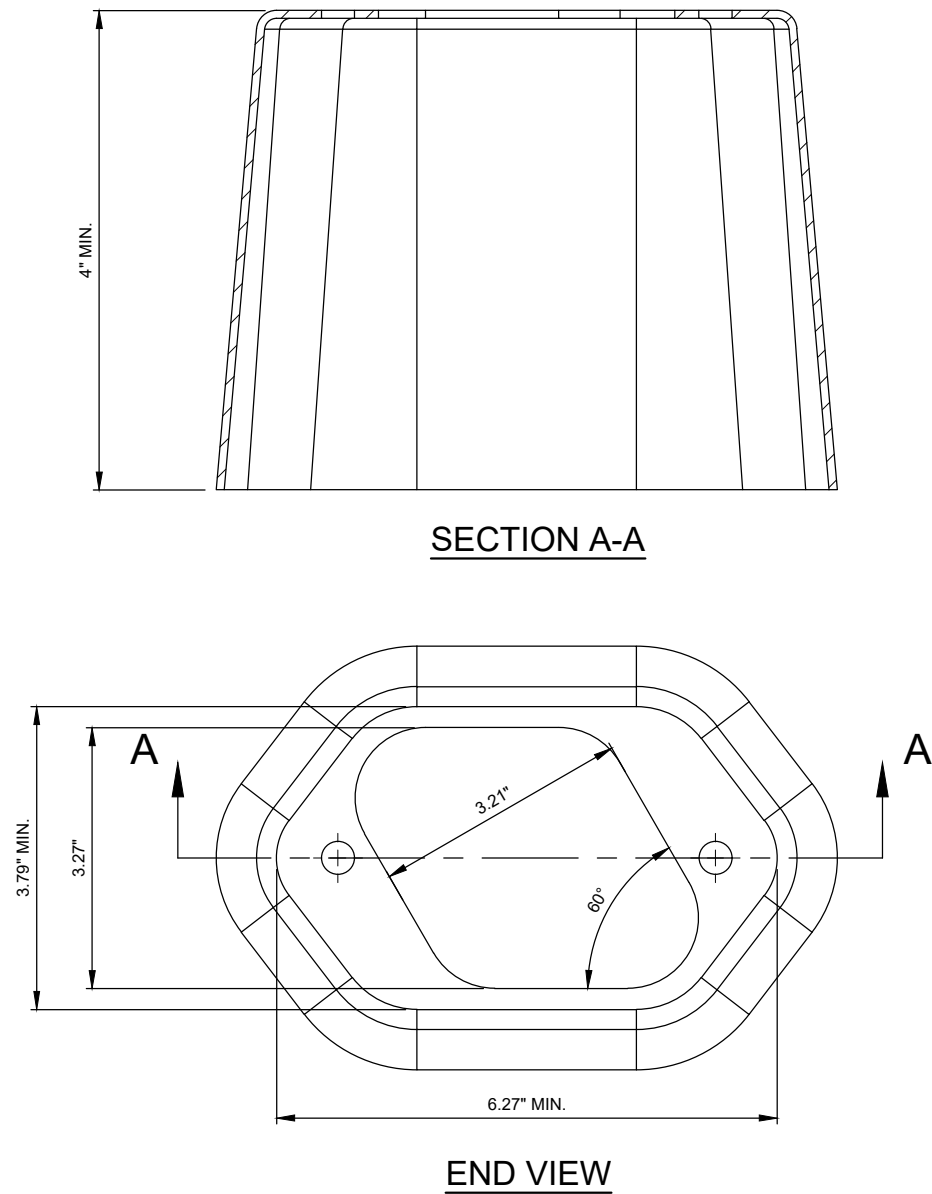
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4 Grouted System



- NOTES:
1. DIMENSIONS PROVIDED FOR REFERENCE ONLY
 2. CONTRACTOR MAY DESIGN AND BUILD POCKET FORMER TO SUIT
 3. MATERIAL SELECTION AT CONTRACTOR'S DISCRETION
 4. SEE SHEET C652 FOR ANCHORAGE DETAILS

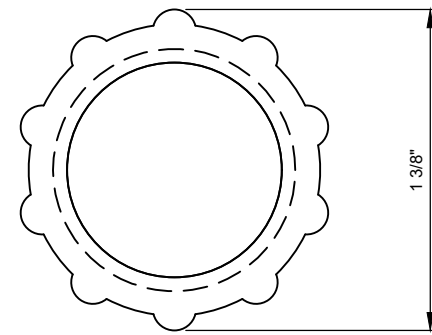
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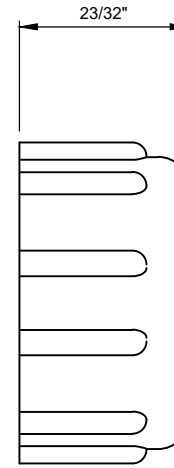
DESCRIPTION	MATERIAL	INVENTORY #
VSLAB 6-4 POCKET FORMER	MATERIAL AT CONTRACTOR'S DISCRETION	02SV06404

PROJECT INFORMATION:		SYSTEM DRAWING		VSLAB 6-4 POCKET FORMER	
		PROJECT NO: SYSTEM	SCALE: NTS	TITLE: SHEET NO: C700	
STRUCTURAL TECHNOLOGIES, LLC Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 860-7000 structuraltechnologies.com		APPROVED FOR CONSTRUCTION		CDL ZX	29JAN2020
NO		DESCRIPTION		BY	CHK
					DATE

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

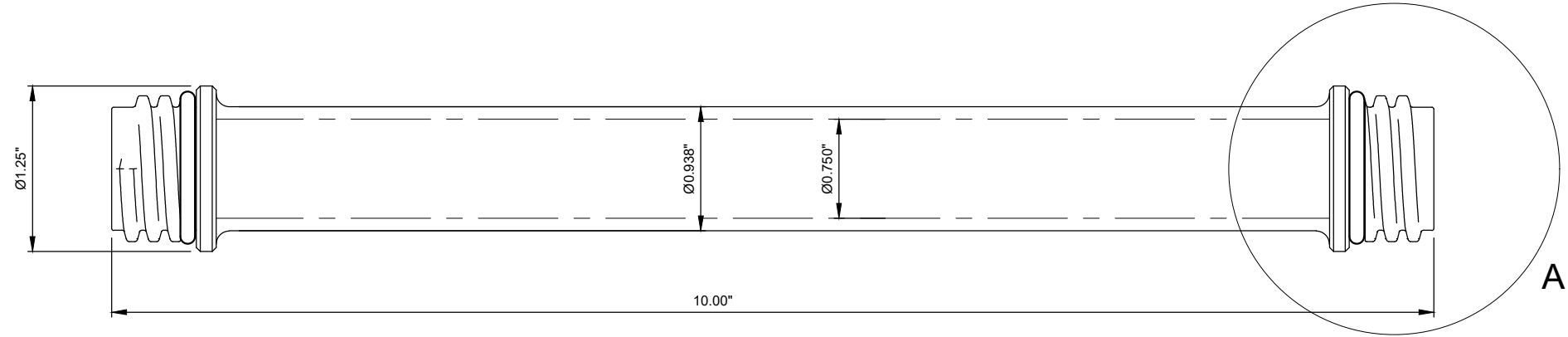
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DATE

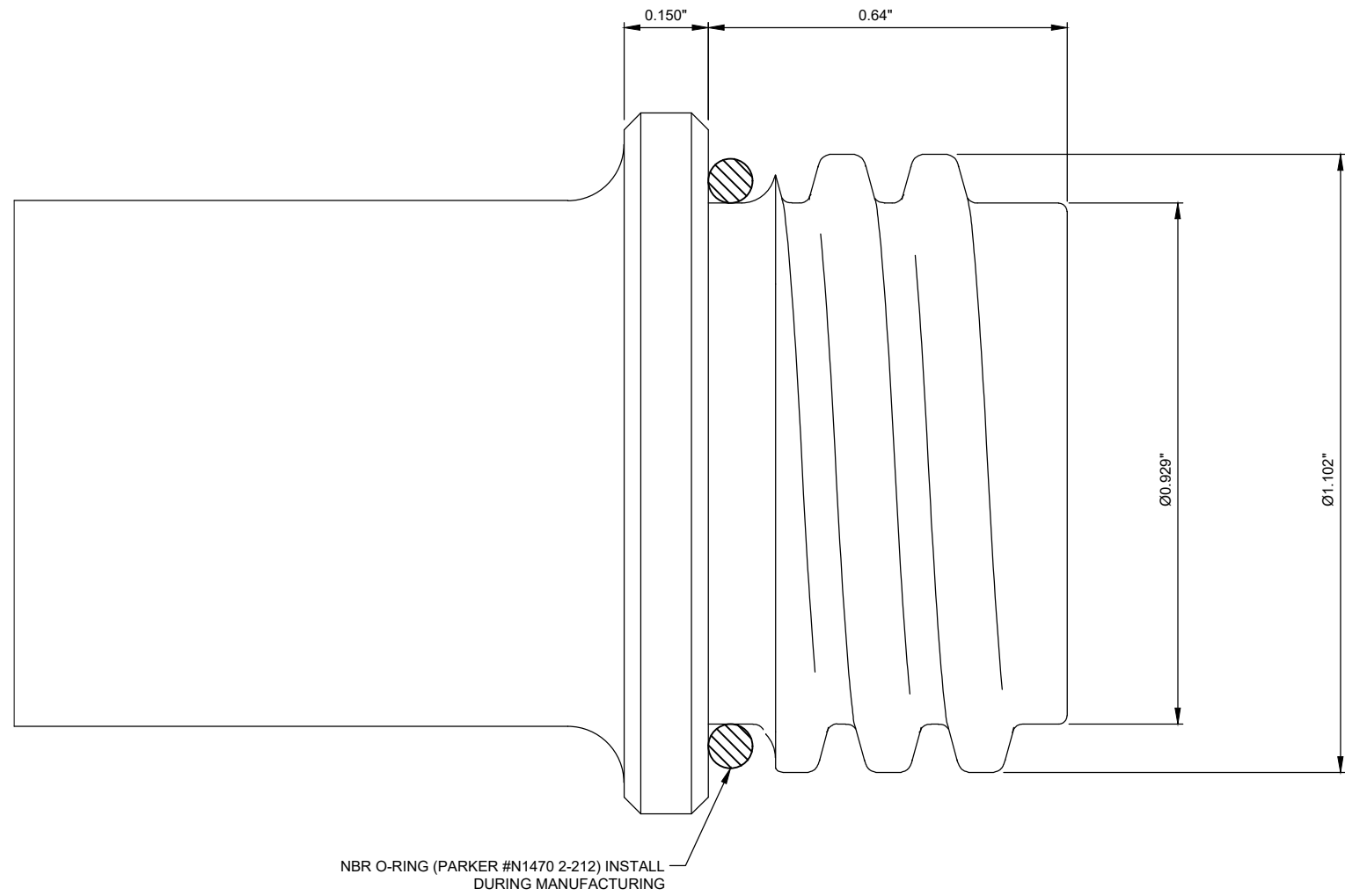
29JAN2020

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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

PROJECT INFORMATION:

SYSTEM DRAWINGS

23MM BP GROUT EXTENSION

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C714

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

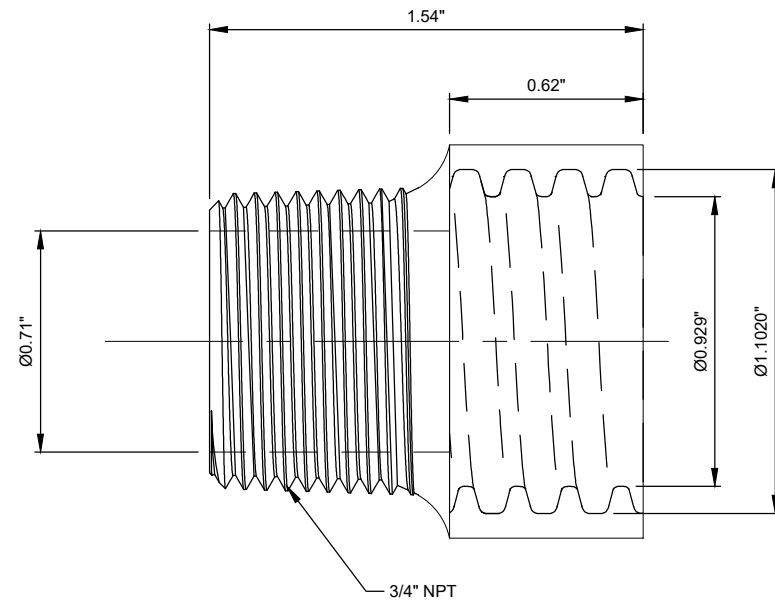
DATE

29JAN2020

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SECTION VIEW

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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

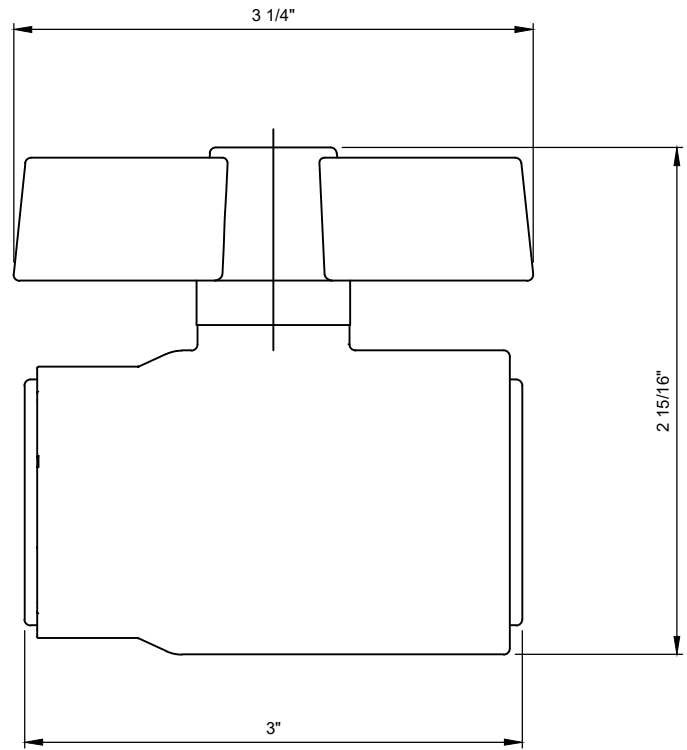
BY
CDL ZX

DATE
29JAN2020

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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

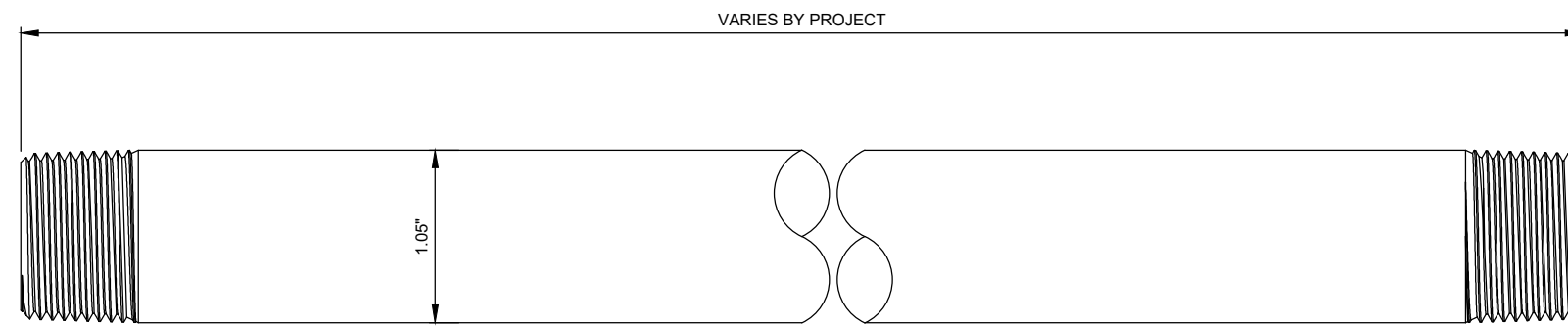
PROJECT INFORMATION:

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

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 PHONE: (410) 850-7000 structuraltechnologies.com

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

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



SIDE VIEW

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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

CDL ZX

BY

CHK

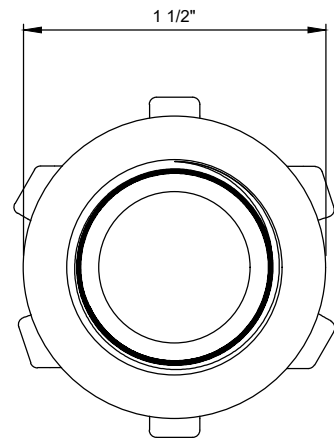
DATE

29JAN2020

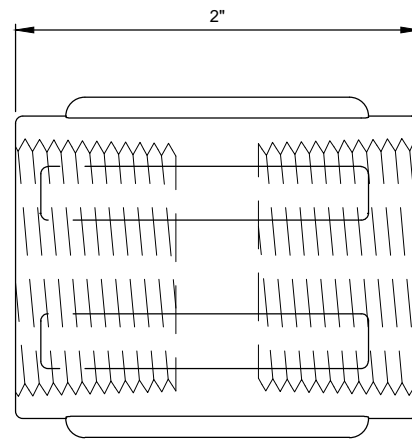
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



END VIEW



SIDE VIEW

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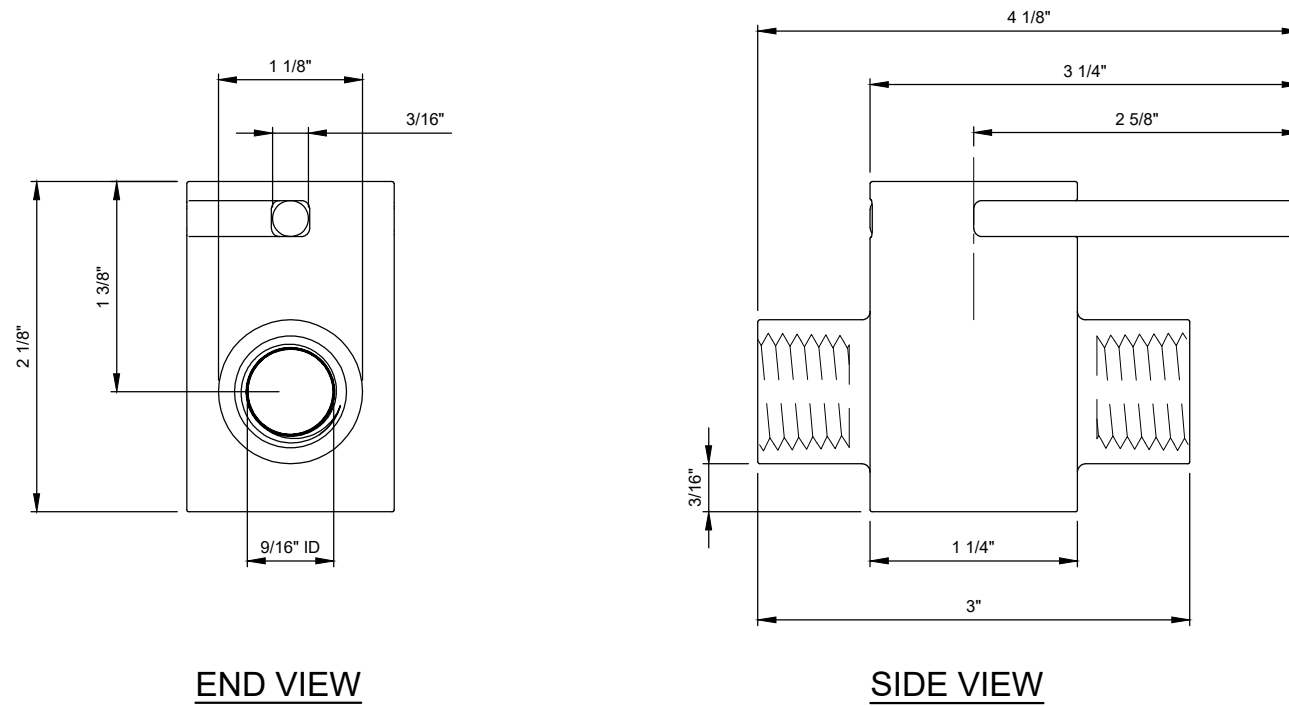
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL

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CORPORATE OFFICE COLUMBIA, MD 21046

PHONE: (410) 850-7000
structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	BY	CDL ZX	DATE	29JAN2020
	DESCRIPTION				

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SVSLAB 6-4 Crouted System



END VIEW

SIDE VIEW

NOTE: THIS IS A TEMPORARY PART

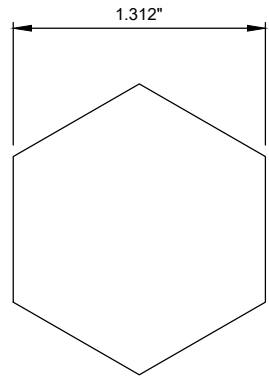
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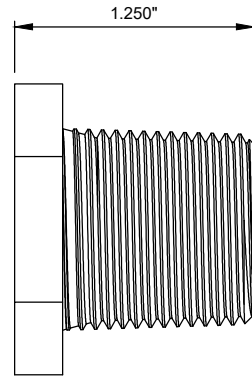
DESCRIPTION	MATERIAL	INVENTORY #
PVC 1/4 TURN BALL VALVE W/ 3/8" NPT	WHITE SCH 80 PVC	02DT01933

PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	SYSTEM	PVC 1/4 TURN BALL VALVE W/ 3/8" FNPT	
SHEET NO:	NTS	C776	
<p>STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	NO
CDL	ZX	BY	CHK
29JAN2020			DATE

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

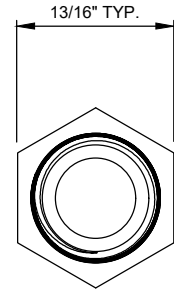
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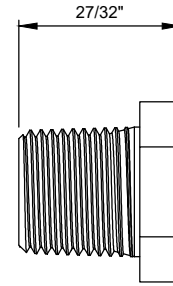
BY	CDL ZX
DESCRIPTION	

CHK	BY	DATE
		29JAN2020

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\NLAB 6-4 Crouted System



FRONT VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FOOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
3/8" NPT PE PLUG	BLACK POLYETHYLENE PER ASTM D3350	02DT01934

PROJECT INFORMATION:

SYSTEM DRAWING

3/8" NPT PE PLUG

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C789

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

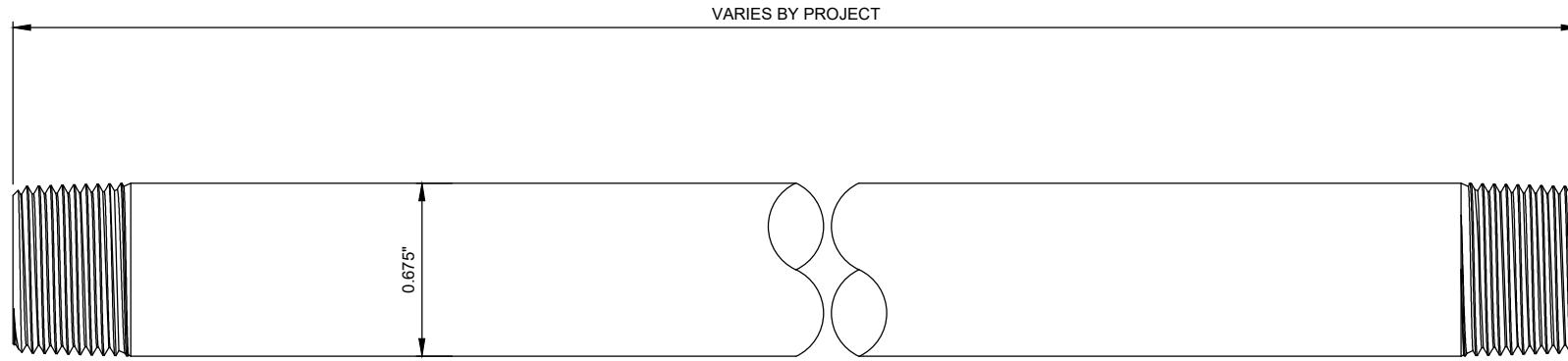
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ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SVI\LAB 6-4 Crouted System



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
3/8" NPT PVC NIPPLE	WHITE SCH 80 PVC	-

PROJECT INFORMATION:

SYSTEM DRAWING

3/8" NPT PVC NIPPLE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C790

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

DESCRIPTION

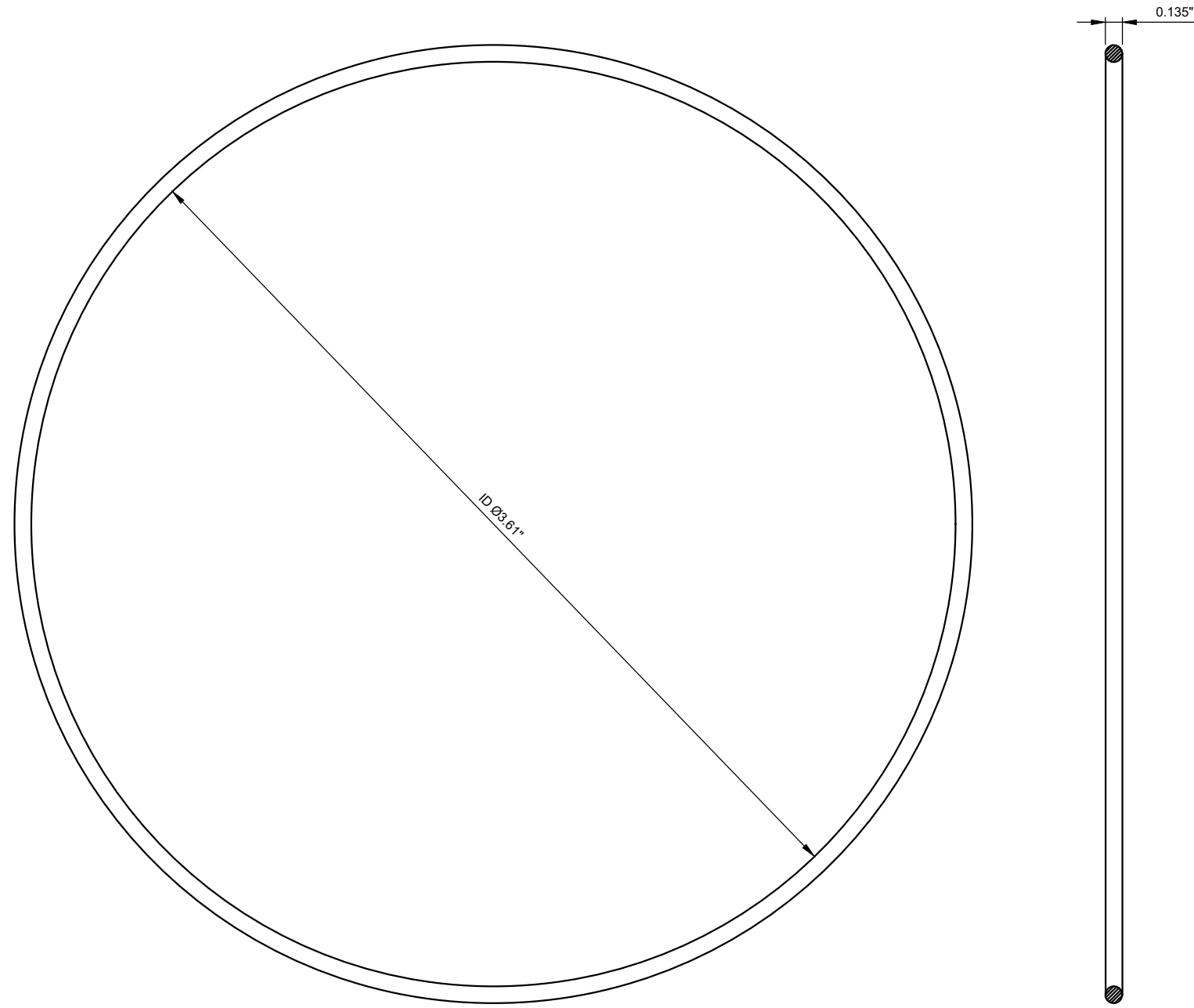
DATE

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ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 Crouted System



DESCRIPTION	MATERIAL	SIZE	INVENTORY #
VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	3.61"x3.88"x0.135"	02VS06406

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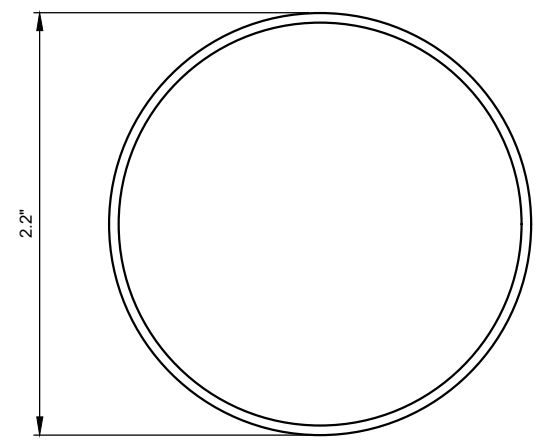
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	VSLAB 6-4 TRUMPET O-RING

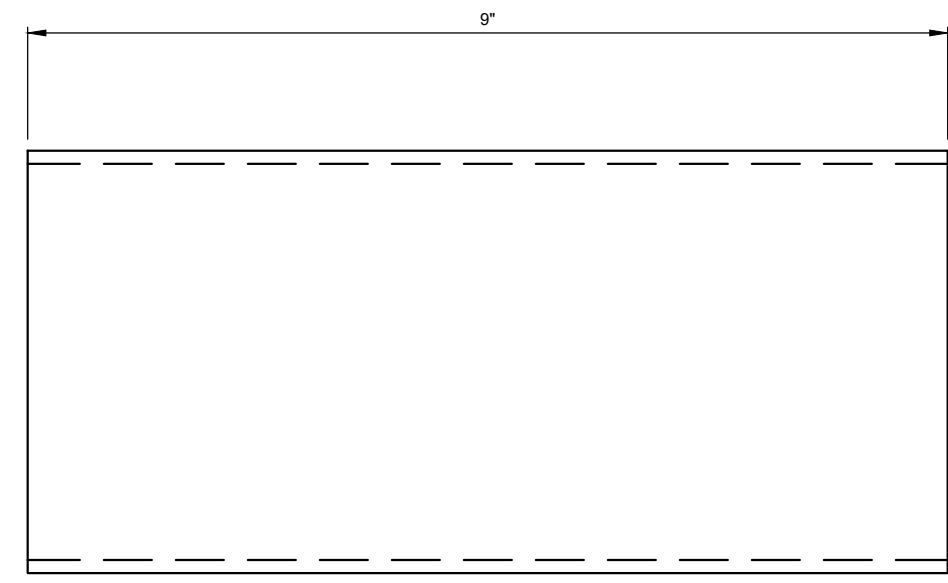
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4 48mm Grouted



END VIEW



SIDE VIEW

DESCRIPTION	MATERIAL	INVENTORY #
HEAT SHRINK 55MM X 9" PLA-YE	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0512

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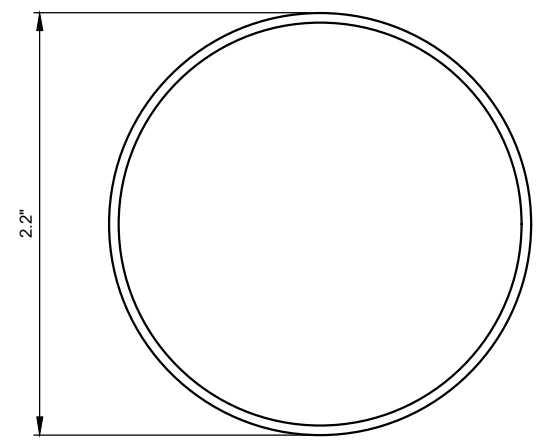
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	PLA-55-YE 55MMx9" HEAT SHRINK SLEEVE

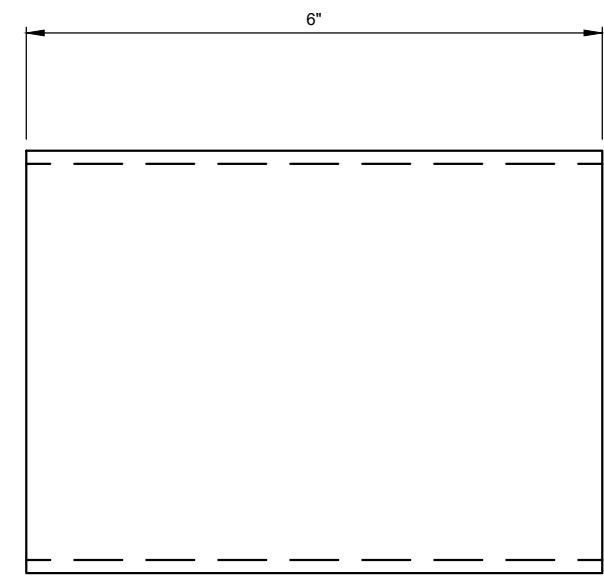
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\SLAB 6-4_48mm_Grouted



END VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
HEAT SHRINK SLEEVE CANUSA PLA-55-YE (6" LONG)	POLYOLEFIN PER FDOT 960 TABLE 2.2.1.8-1	02DT0501

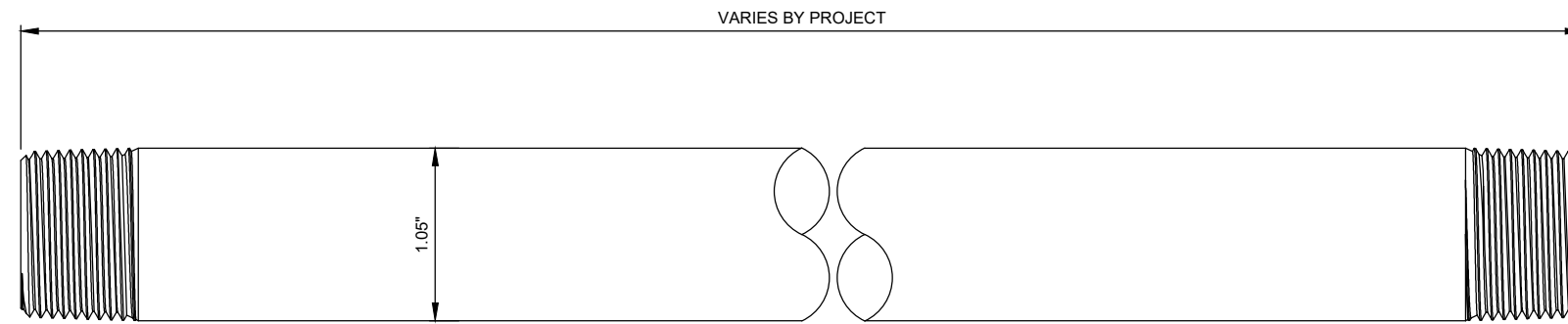
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	PLA-55-YE 55MMx6" HEAT SHRINK SLEEVE

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:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



SIDE VIEW

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

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PROJECT INFORMATION:

SYSTEM DRAWING

3/4" NPT PVC NIPPLE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C887

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

DESCRIPTION

CHK

DATE

29JAN2020

**structural
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