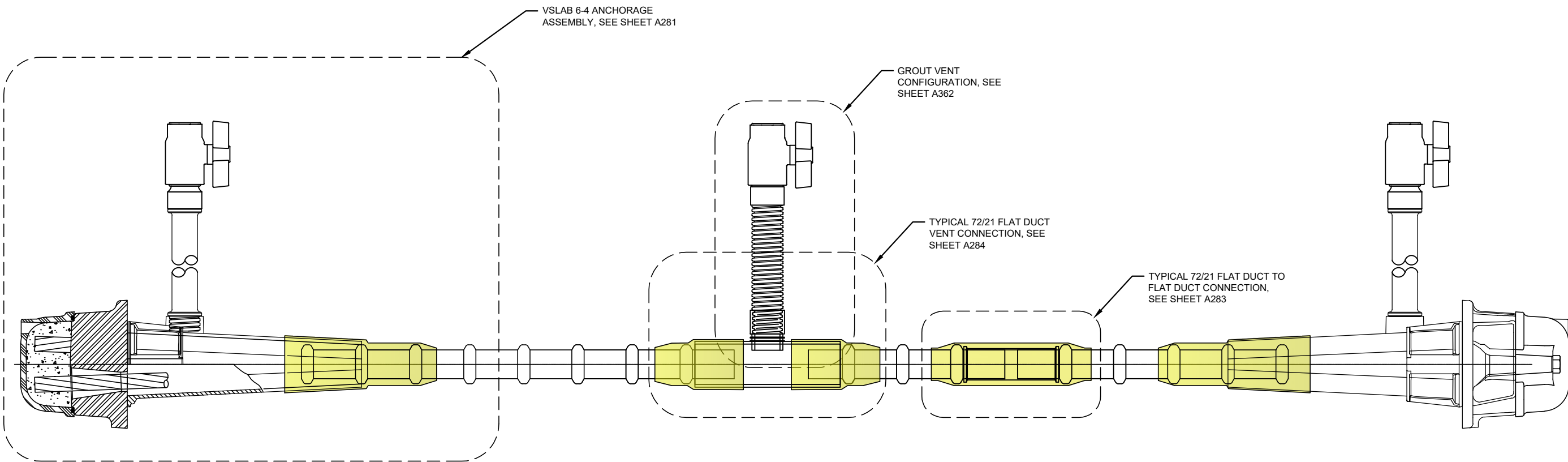


ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Florida DOT Test 2017\VSLAB 6-4 Cracked System



OVERALL ASSEMBLY

NOTES:

1. MINIMUM BENDING RADIUS FOR 72/21 PT-PLUS FLAT DUCT IS 12 FT ABOUT WEAK AXIS OF DUCT.

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PROJECT INFORMATION:

SYSTEM DRAWING

VSLAB 6-4 SYSTEM OVERALL ASSEMBLY

STRUCTURAL TECHNOLOGIES, LLC
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FORT WORTH, TX 76156



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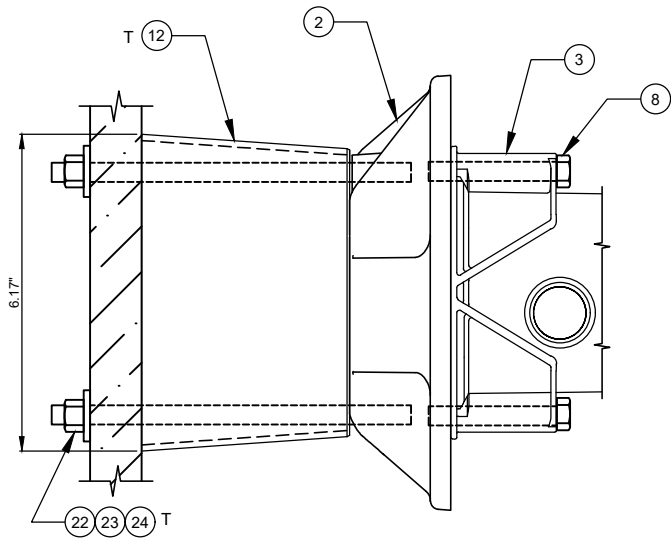
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3	TITLE BLOCK UPDATED	CDL	ZX	31JUL2018
2	MINOR EDIT TO NOTES/ VENT CONNECTION	DTS	DD	05JAN2012
1	ISSUED FOR CONSTRUCTION	GB	MM	17JAN2011
NO	DESCRIPTION	BY	CHK	DATE

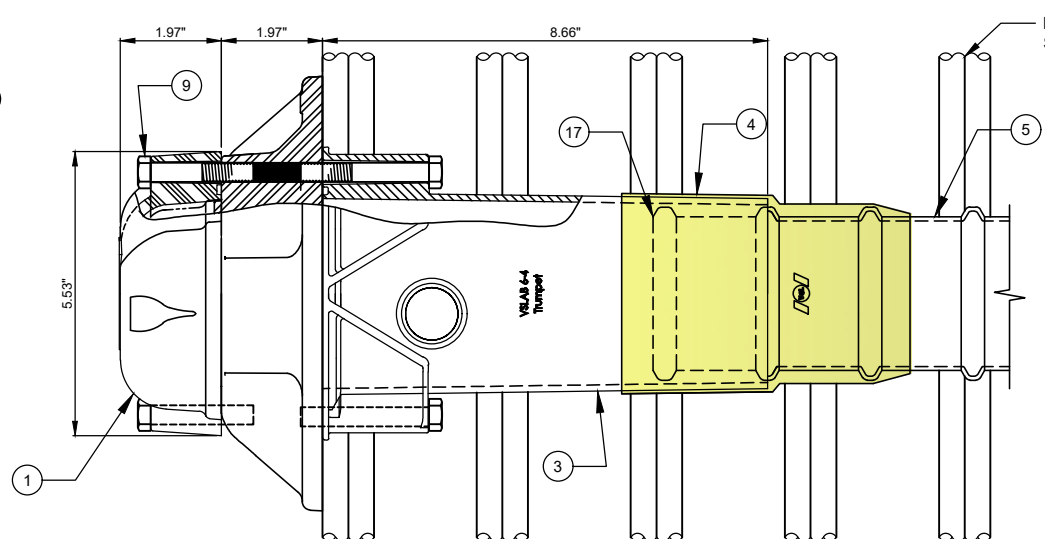
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SYSTEM

SCALE:
NTS

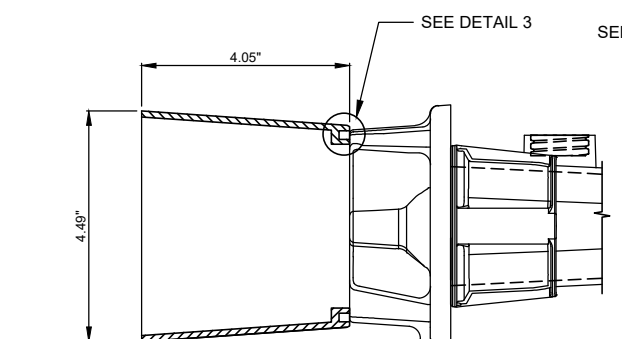
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A241



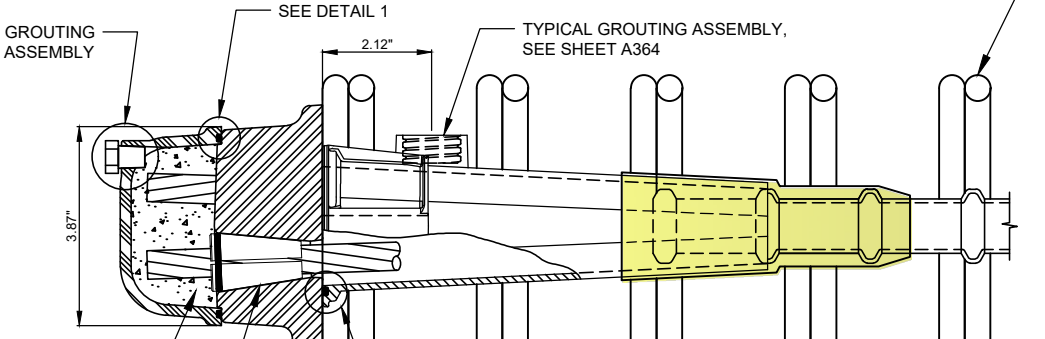
PLAN VIEW W/ POCKET FORMER



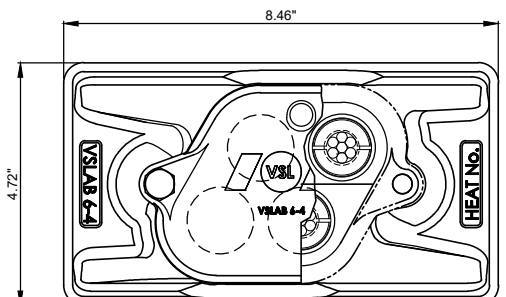
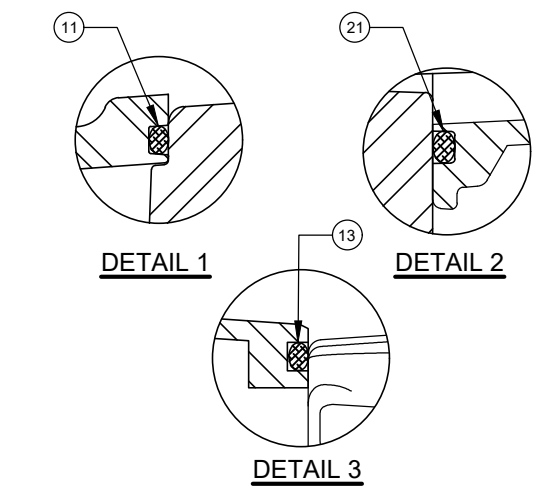
PLAN VIEW W/ GROUT CAP



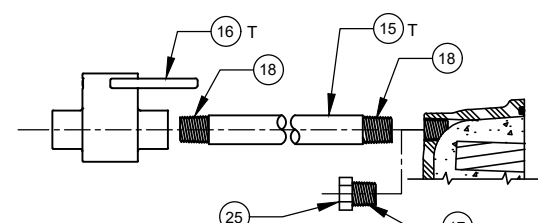
ELEVATION VIEW W/ POCKET FORMER



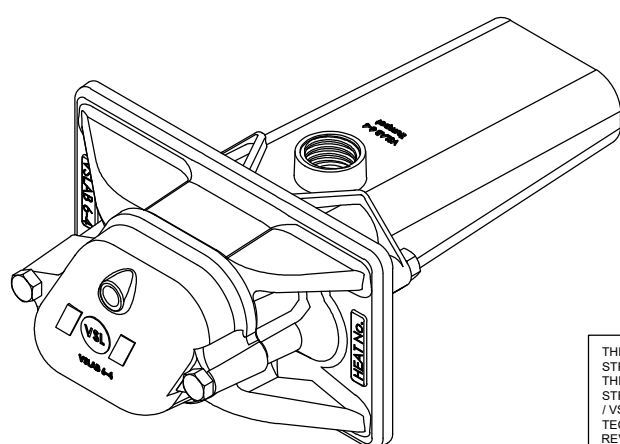
ELEVATION VIEW W/ GROUT CAP



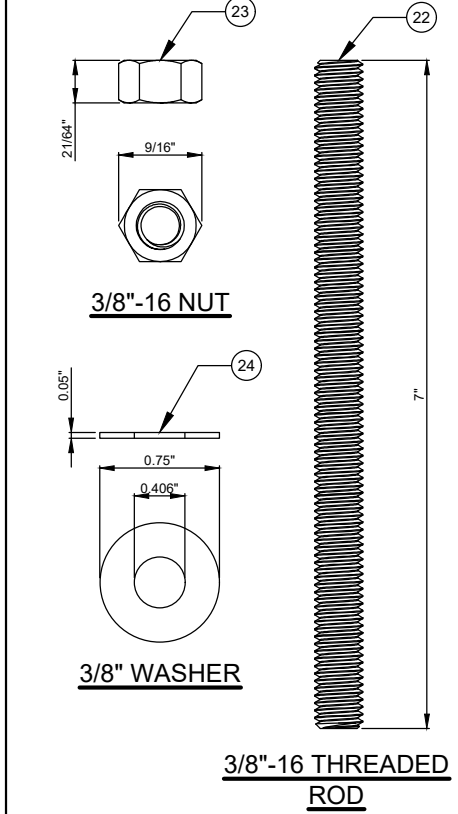
END VIEW



CAP GROUTING ASSEMBLY



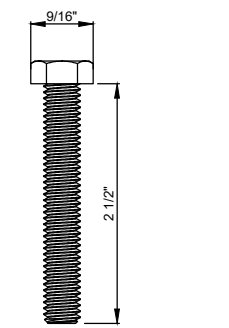
GROUT CAP/ANCHOR/TRUMPET



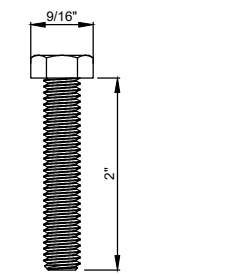
3/8"-16 NUT

3/8" WASHER

3/8"-16 THREADED ROD



3/8"Ø UNC HEX BOLT P/N: 02VS06408



3/8"Ø UNC HEX BOLT P/N: 02VS06407

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

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	VSLAB 6-4 GROUT CAP	ABS LUSTRAN 633	02VS06402
2	1	VSLAB 6-4 ANCHOR HEAD	A536 GR80-55-06	02VS06401
3	1	VSLAB 6-4 TRUMPET	POLYPROPYLENE	02VS06405
4	1	HEAT SHRINK SLEEVE CANUSA PLA-63-150-YE (6" LONG)	POLYOLEFIN	02DT0503
5	1	FLAT DUCT, 72/21 PT-PLUS	POLYPROPYLENE	02DT0413
6	-	GROUT	PREMIUM NON-BLEED	-
7	4	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17	02WG0008
8	2	3/8"Ø UNC X 2.5" LONG HEX BOLT	316 STAINLESS STEEL	02VS06408
9	2	3/8"Ø UNC X 2" LONG HEX BOLT	316 STAINLESS STEEL	02VS06407
10	-	VSLAB 6-4 LOCAL ZONE REINFORCEMENT	A615, GR 60	02VS0625
11	1	GROUT CAP QUAD-RING (-241)	BUNA-N 70 D	02VS06403
12	-	POCKET FORMER	-	02VS06404
13	1	POCKET FORMER QUAD-RING (-242)	BUNA-N 70 D	02VS06412
15	1	3/8" NPT PVC NIPPLE	SCH 80 PVC	-
16	1	3/8" NPT PVC 1/4 TURN BALL VALVE	SCH 80 PVC	02DT01933
17	-	BONDUIIT	-	-
18	-	SILICONE GREASE	-	-
21	1	VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D	02VS06406
22	2	3/8"Ø UNC X 7" LONG FULLY THREADED STUD	ZINC PLATED	02VS06420
23	2	3/8"Ø NUT	ZINC PLATED	02VS06421
24	2	3/8"Ø FLAT WASHER	ZINC PLATED	02VS06422
25	1	3/8" NPT GROUT PLUG	POLYETHYLENE	02DT01934

- INSTALLATION PROCEDURES (INSTALLATION PROCEDURE IS GENERIC. FOLLOW THE PROJECT SPECIFIC REQUIREMENTS AND THE FDOT SPECIFICATIONS)
- LAY OUT FLAT DUCT IN THE REBAR CAGE ACCORDING TO THE PLANS.
 - TRIM DUCT TO THE CORRECT LENGTH AND PREPARE ANY REQUIRED GROUT VENTS (SEE SHEET A284) OR DUCT SPLICES (SEE SHEET A283), IF APPLICABLE.
 - ATTACH TRUMPETS TO EACH END OF THE DUCT USING HEAT SHRINK AND BONDUIIT.
 - BOLT THE ANCHORAGES TO THE TRUMPETS AND THE GROUT CAPS TO THE ANCHORAGES TO PROVIDE AN AIR-TIGHT SEAL. PLUG ALL OPEN PORTS WITH APPROPRIATE GROUTING COMPONENTS.
 - 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 AND ANCHORAGES.
 - FIX ANCHORAGES TO FORMWORK USING BLOCKOUTS OR POCKET FORMERS SUITABLE FOR THE JOB (BY OTHERS).
 - INSERT REQUIRED NUMBER PT STRANDS THROUGH THE DUCT AND TRUMPET ASSEMBLY. AT EACH END OF THE TENDON, PLACE THE STRANDS THROUGH THE APPROPRIATE WEDGE CAVITIES AND BOLT THE TRUMPET TO THE BACK OF THE ANCHORAGE.
 - ENSURE DUCT IS TIED OFF EVERY 2 FEET.
 - PROCEED WITH CONCRETING.
 - STRIP FORM AND POCKET FORMERS, IF APPLICABLE.
 - STRESS STRANDS AND TRIM STRAND TAILS 1.5" MAXIMUM LENGTH.
 - INSTALL GROUT CAPS.
 - PROCEED WITH TENDON PRESSURE TEST AS REQUIRED BY FDOT SPECIFICATIONS. IN THE PRESENCE OF THE ENGINEER, 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 OPERATIONS (SEE CAP GROUTING ASSEMBLY, THIS SHEET & SHEET A364).

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CDL ZCX

GB MM

GY MM

GY MM

NO

02JUL2018

07MAR2011

14FEB2011

17JAN2011

DATE

TITLE BLOCK UPDATED

UPDATED BOM

FOR CONSTRUCTION

RELEASED FOR CONSTRUCTION

NO

BY

CHK

DESCRIPTION

DATE

4

3

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NO

DESCRIPTION

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structural TECHNOLOGIES
A Structural Group Company

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

PHONE: (817) 545-4807
FAX: (817) 545-4827
WWW.VSL.NET

PROJECT INFORMATION:

PROJECT NO: SYSTEM

SHEET NO:

SYSTEM DRAWING

VSLAB 6-4 GROUTED SYSTEM ASSEMBLY

TITLE:

SCALE: NTS

PROJECT NO: SYSTEM

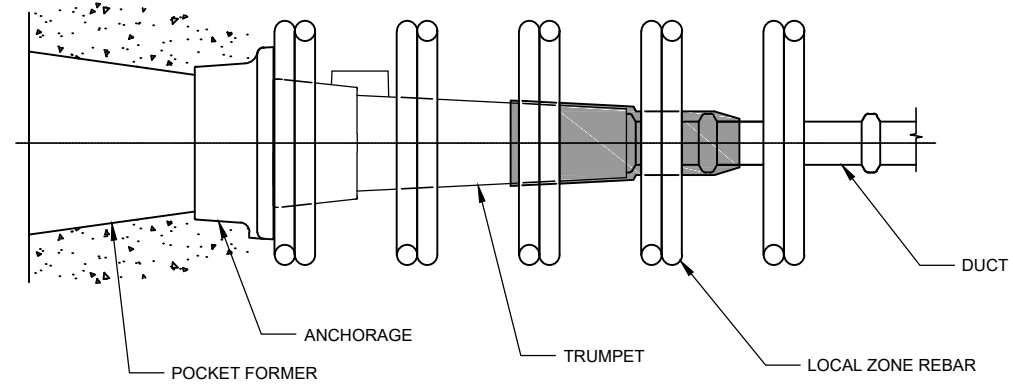
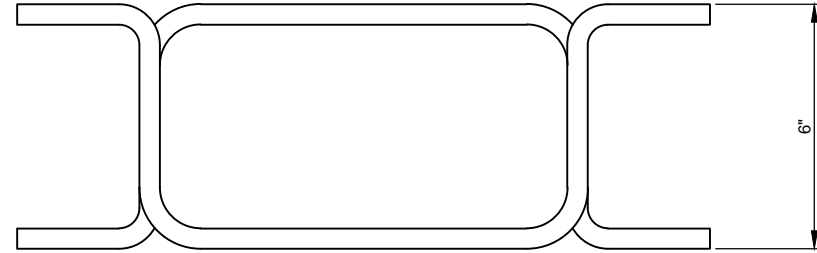
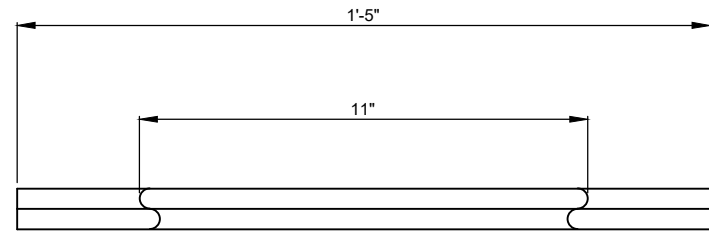
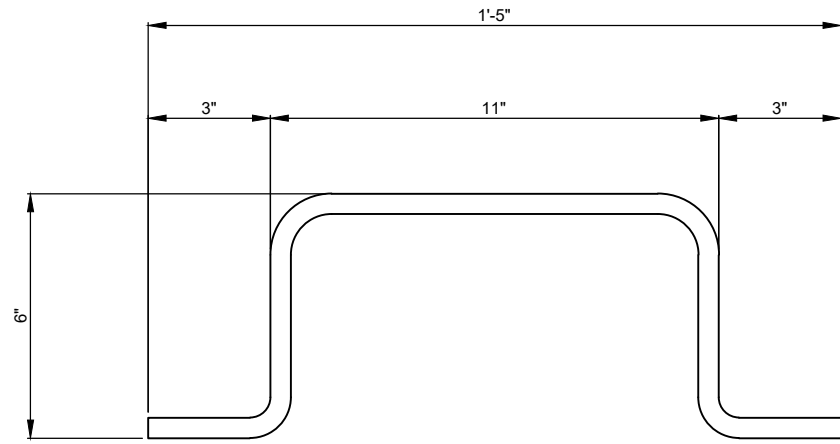
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SCALE: NTS

A281

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


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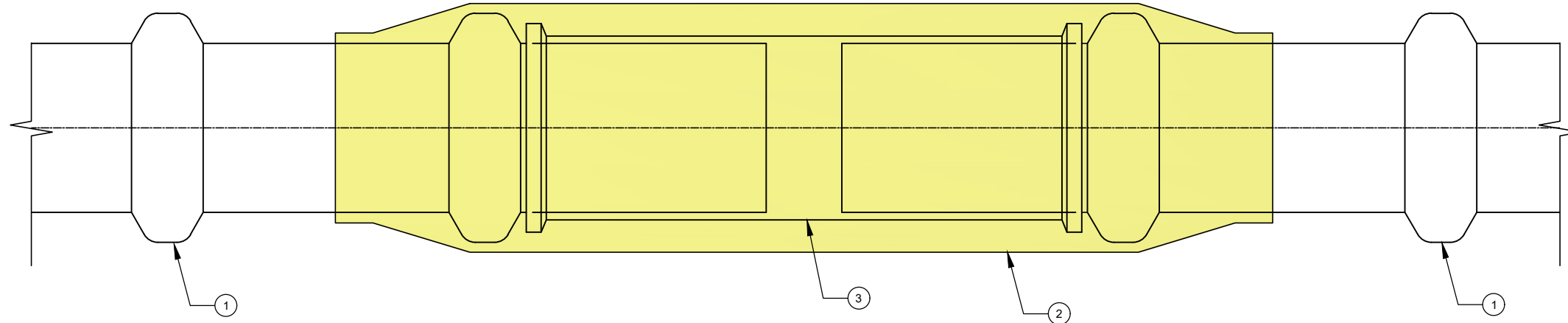


VSLAB 6-4 LOCAL ZONE REINFORCEMENT

- NOTES:
1. FINAL DESIGN AND DETAILS OF LOCAL ZONE REINFORCEMENT ARE PROJECT SPECIFIC.
 2. LOCAL ZONE REINFORCEMENT HAS SPACING PRIORITY.
 3. PART NUMBER: 02VS0625

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PROJECT INFORMATION:		TITLE BLOCK UPDATED		CDL	ZX	22JUN2018
SYSTEM DRAWING		LOCAL ZONE REINFORCEMENT		GY	DD	07JUN2011
VSLAB 6-4 ANCHORAGE LOCAL ZONE REINFORCEMENT FOR MODERATELY AGGRESSIVE ENVIRONMENTS		RELEASED FOR CONSTRUCTION		GB	MM	17JAN2011
PROJECT NO: SYSTEM		DESCRIPTION		BY	CHK	DATE
SHEET NO: A282		NO				
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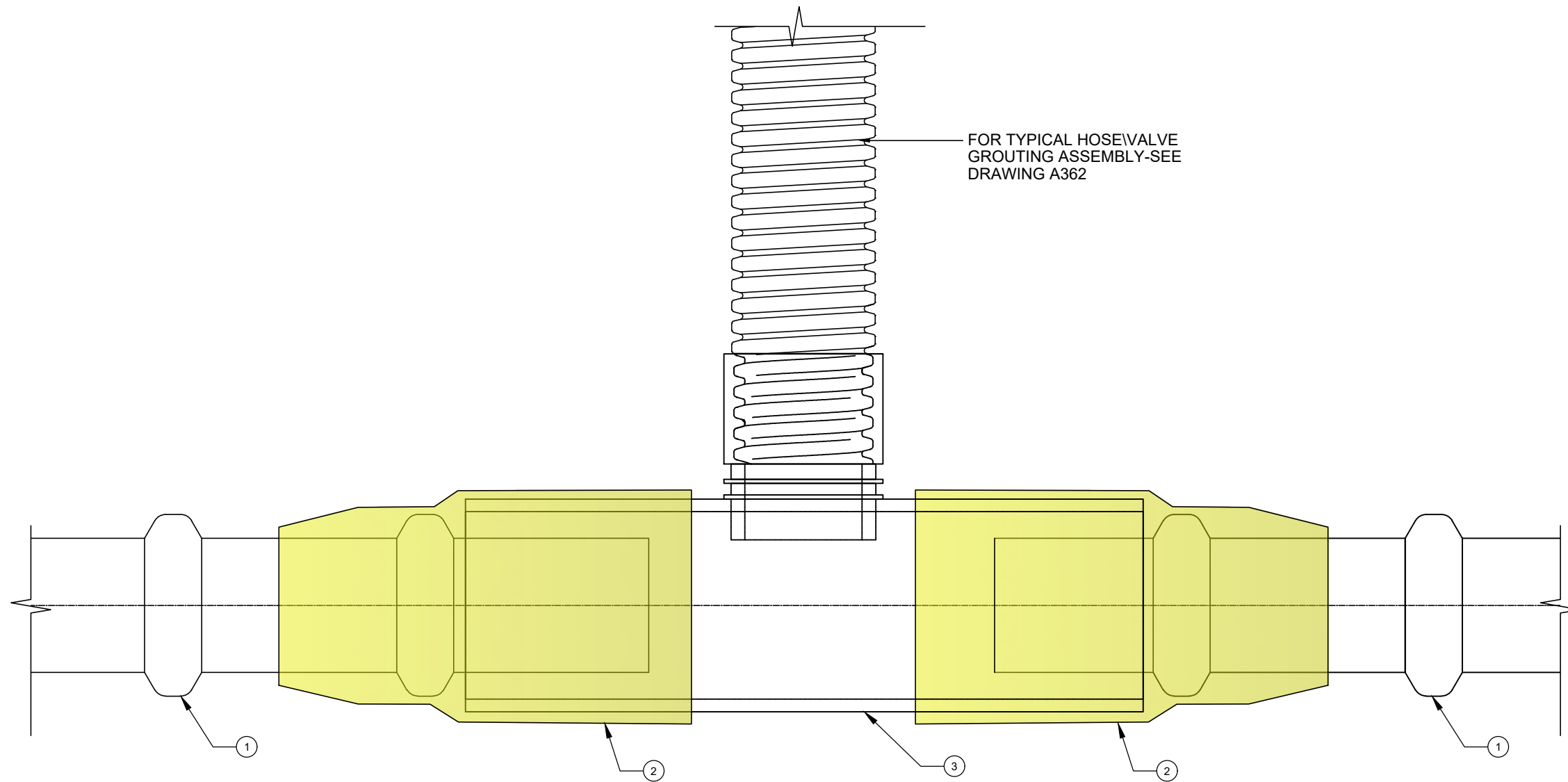
ELEVATION - TYPICAL 72/21 FLAT DUCT TO DUCT CONNECTION

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY No.
3	1	72/21 PT-PLUS SLIP-ON COUPLER	POLYPROPYLENE	02GT07621
2	1	HEAT SHRINK SLEEVE (12" LONG)	POLYOLEFIN (CANUSA PLA 63-150-YE)	02DT0504
1	1	FLAT DUCT, 72/21 PT-PLUS	POLYPROPYLENE WHITE	02DT0413

NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS

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		<p>TITLE: TYPICAL 72/21 FLAT DUCT TO DUCT CONNECTION</p> <p>SCALE: NTS</p>				
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<p>NO</p>		<p>DESCRIPTION</p>	<p>BY: GB</p>	<p>CHK: MM</p>	<p>DATE: 22JUN2018</p>	



ELEVATION - 72/21 FLAT DUCT HALF SHELL GROUTING VENT

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY No.
3	1	GTI SLIP-ON COUPLER W/ VENT	POLYPROPYLENE	02GT07621V
2	2	HEAT SHRINK SLEEVE (6" LONG)	POLYOLEFIN (CANUSA PLA-63-150-YE)	02DT0503
1	-	FLAT DUCT, 72/21 PT-PLUS	POLYPROPYLENE WHITE	02DT0413

NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS

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STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15800 TRINITY BLVD., SUITE 118
FORT WORTH, TX 76156

SYSTEM DRAWING

72/21 FLAT DUCT W/GROUTING VENT

TITLE: 72/21 FLAT DUCT W/GROUTING VENT
SCALE: NTS

PROJECT NO: SYSTEM
SHEET NO: A284

NO

DESCRIPTION

RELEASED FOR CONSTRUCTION

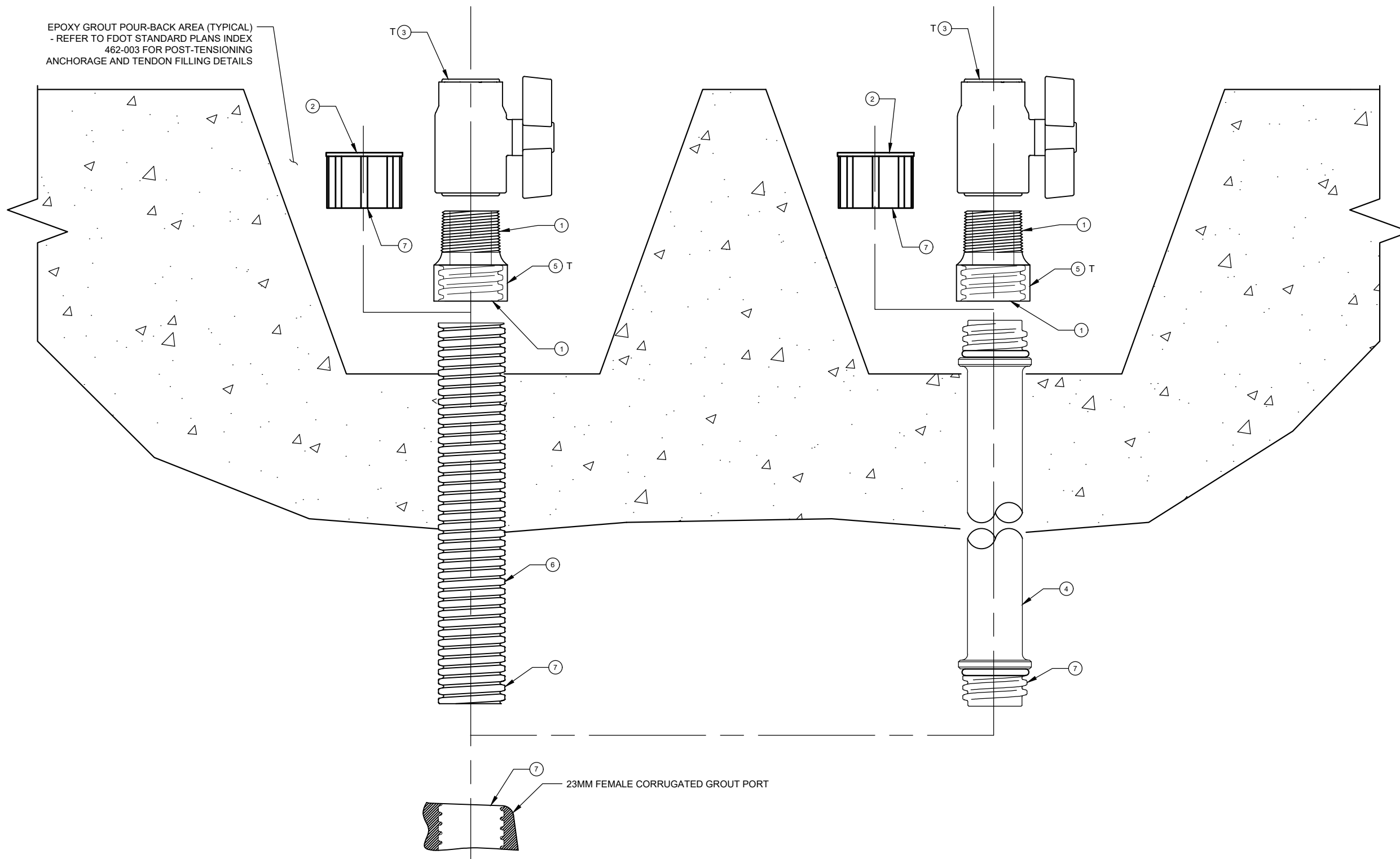
BY: GB
CHK: MM
DATE: 07MAR2011

CDL: ZX
DATE: 31JUL2018

TITLE BLOCK UPDATED

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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-22 Grouted System



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 #
1	-	SILICONE GREASE	-	-
2	1	23MM GROUT HOSE CAP	HDPE	02DT0314
3	1	3/4 NPT PVC 1/4 TURN BALL VALVE	SCH 80 PVC	02DT01916
4	1	23MM BP GROUT EXTENSION	POLYPROPYLENE	02DT0318
5	1	BR PLATE BUSHING 3/4" NPT 23MM	POLYPROPYLENE	02DT0316
6	-	23MM GROUT HOSE	HDPE	02DT0310
7	-	BONDUIT	-	-

- NOTES:
1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
 2. ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI
 3. MINIMUM CONCRETE COVER SHALL BE 2" AND MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2
 4. COMPONENTS MAY BE ASSEMBLED AS A VENT OR A DRAIN AS REQUIRED.

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PROJECT INFORMATION:

SYSTEM DRAWING

GROUT VENT CONFIGURATION USING CORRUGATED GROUT PORT

TITLE: GROUT VENT CONFIGURATION USING CORRUGATED GROUT PORT

SCALE: NTS

PROJECT NO: SYSTEM

SHEET NO: A362

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CDL ZX 31JUL2018

BY CHK DATE

DESCRIPTION

NO

FIRST ISSUE

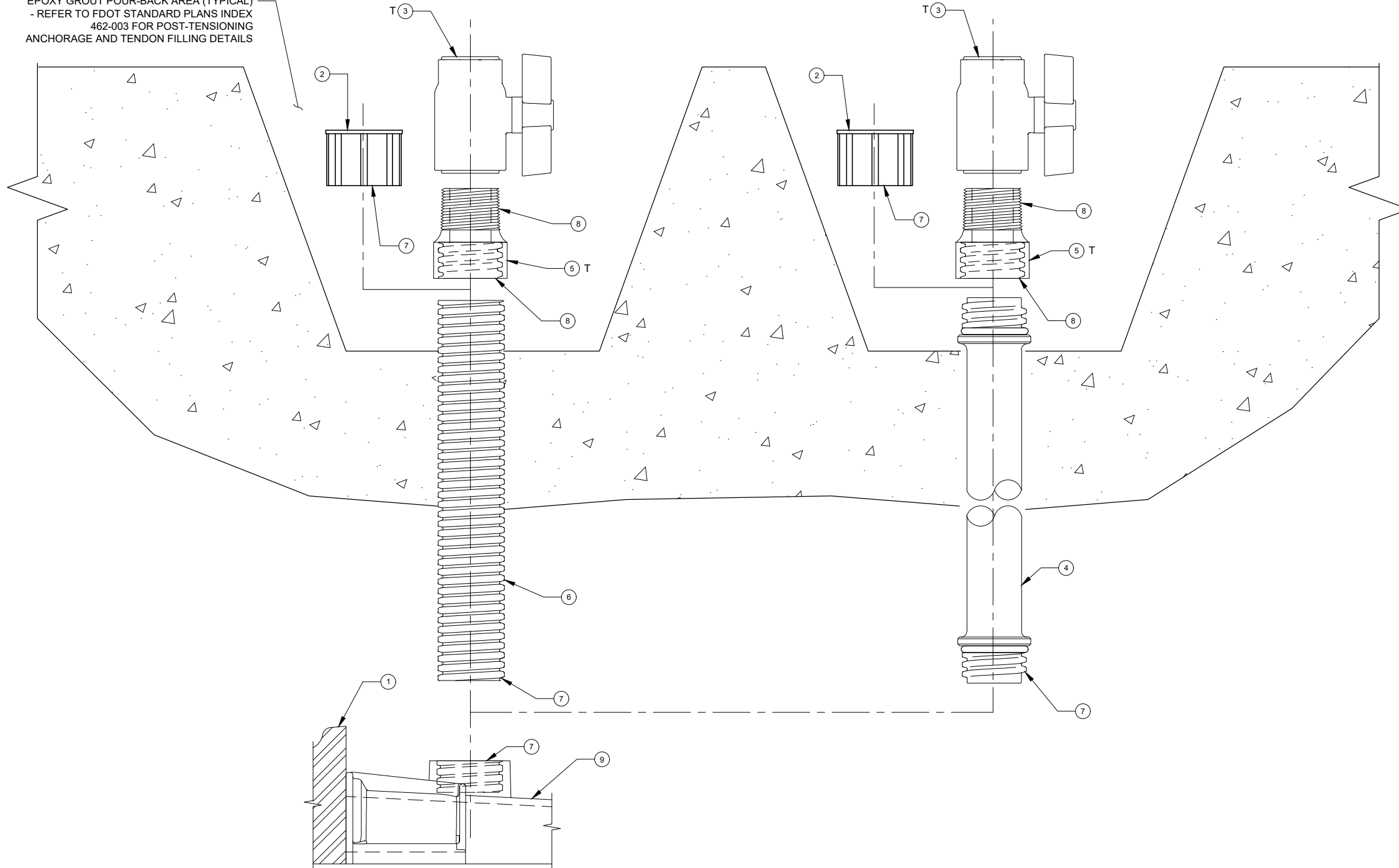
structural TECHNOLOGIES
A Structural Group Company

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

PHONE: (817) 545-4807
FAX: (817) 545-4827
WWW.VSL.NET

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

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



- 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.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	VSLAB 6-4 TRUMPET	POLYPROPYLENE	02VS06405
2	1	23MM GROUT HOSE CAP	HDPE	02DT0314
3	1	3/4 NPT PVC 1/4 TURN BALL VALVE	SCH 80 PVC	02DT01916
4	1	23MM BP GROUT EXTENSION	POLYPROPYLENE	02DT0318
5	1	BR PLATE BUSHING 3/4" NPT 23MM	POLYPROPYLENE	02DT0316
6	-	23MM GROUT HOSE	HDPE	02DT0310
7	-	BONDUIT	-	-
8	-	SILICONE GREASE	-	-
9	1	VSLAB 6-4 ANCHOR HEAD	A536 GR80-55-06	02VS06401

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: VSLAB 6-4 VERTICAL INJECTION OPTIONS

PROJECT NO: -- SCALE: NTS

SHEET NO: A364

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A Structural Group Company
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NO

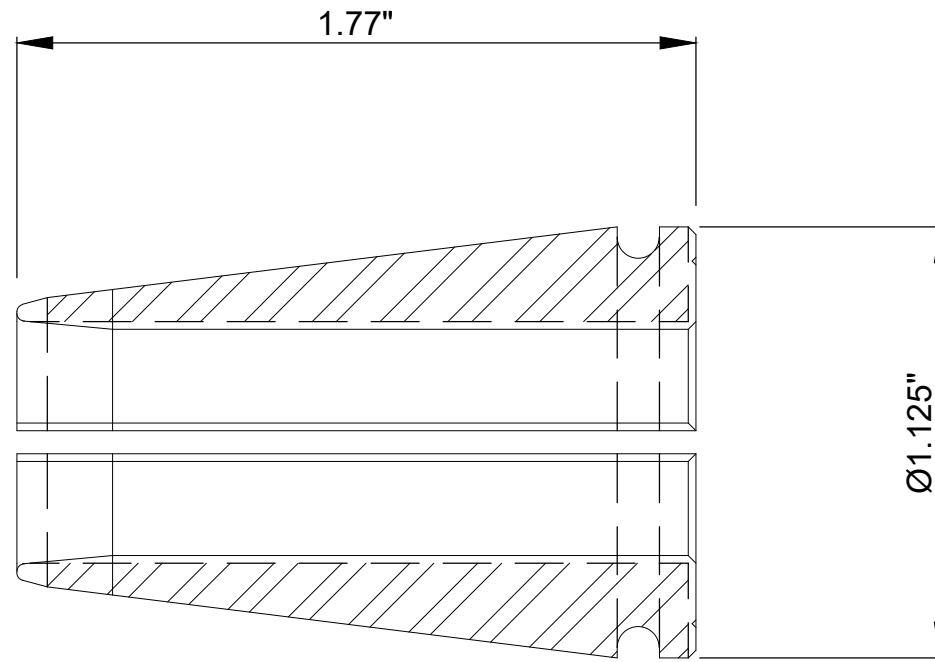
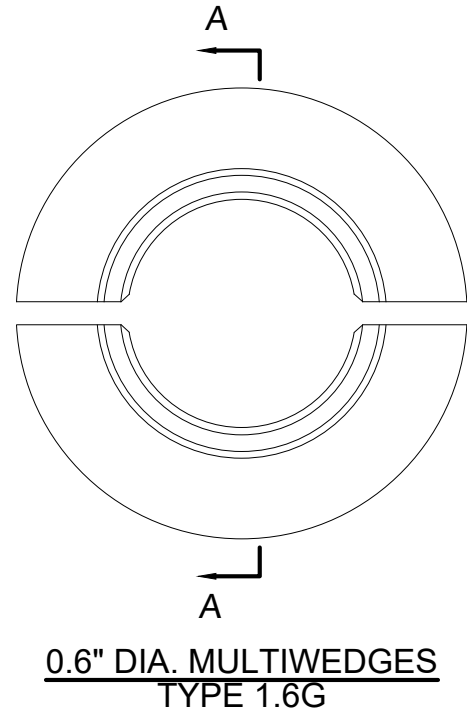
FIRST ISSUE

DESCRIPTION

BY CDL

CHK ZK

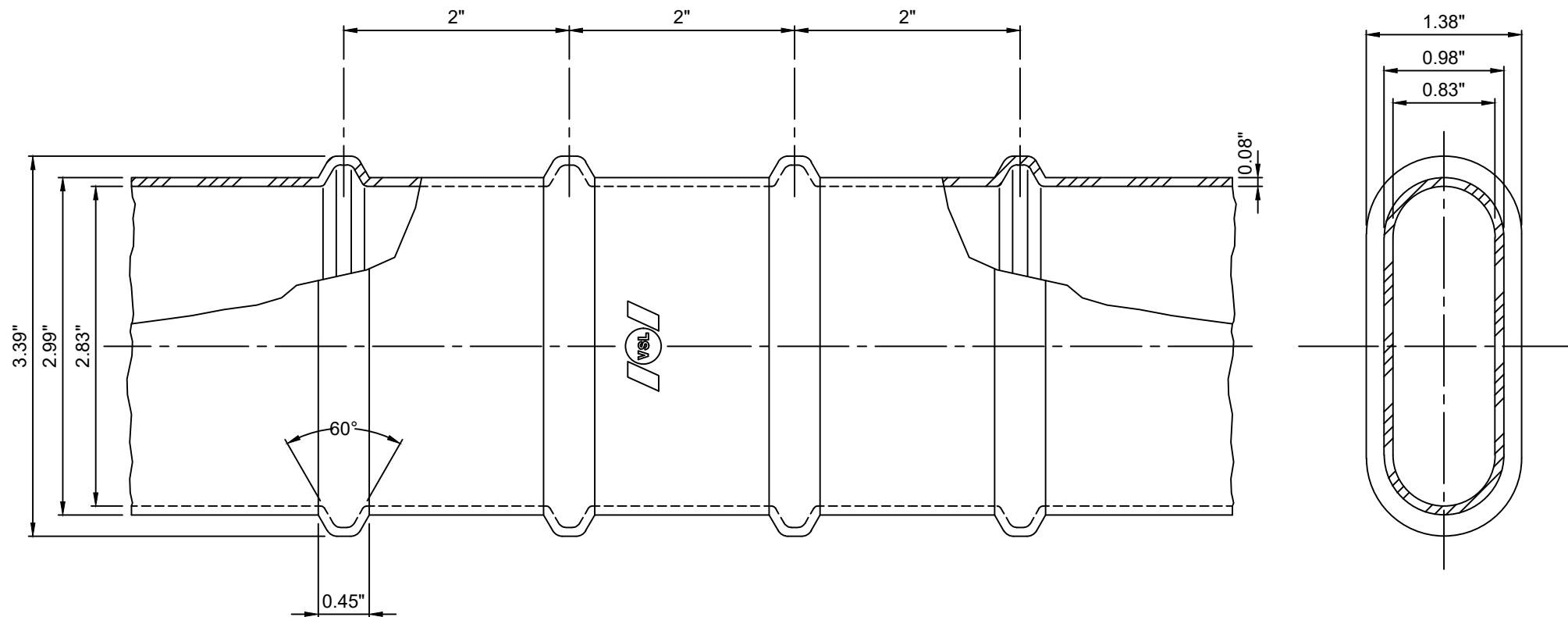
DATE 31 JUL 2018



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

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	4	UPDATED TITLE BLOCK	SK	ZX	09JAN2015
	3	UPDATED BORDER	GDH		29APR2004
	2	ADDED INVENTORY NUMBER	TKW		01JAN1989
	NO	DESCRIPTION	BY	CHK	DATE
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: C218</p>	<p>TITLE: 0.6" MULTIWEDGE TYPE 1.6G</p> <p>SCALE: NTS</p>				



Marking every 6 ft

PT-PLUS FLAT DUCT 72 / 21

MATERIAL : ASTM D4101 PP0347
ARISTECH POLYPROPYLENE TI-4007-G

INVENTORY No. 02DT0413

NOTE: OVERALL DIMENSIONS VARY; THE AVERAGE DIMENSIONS ARE SHOWN
DIMENSIONS ARE SHOWN IN INCHES

MEETS OR EXCEEDS FDOT SPECIFICATION 960

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PROJECT INFORMATION:

PROJECT NO: SYSTEM
SHEET NO:

SCALE: NTS

TITLE: PT-PLUS FLAT DUCT 72/21

C270



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15600 TRINITY BLVD., SUITE 118
FORT WORTH, TX 76156

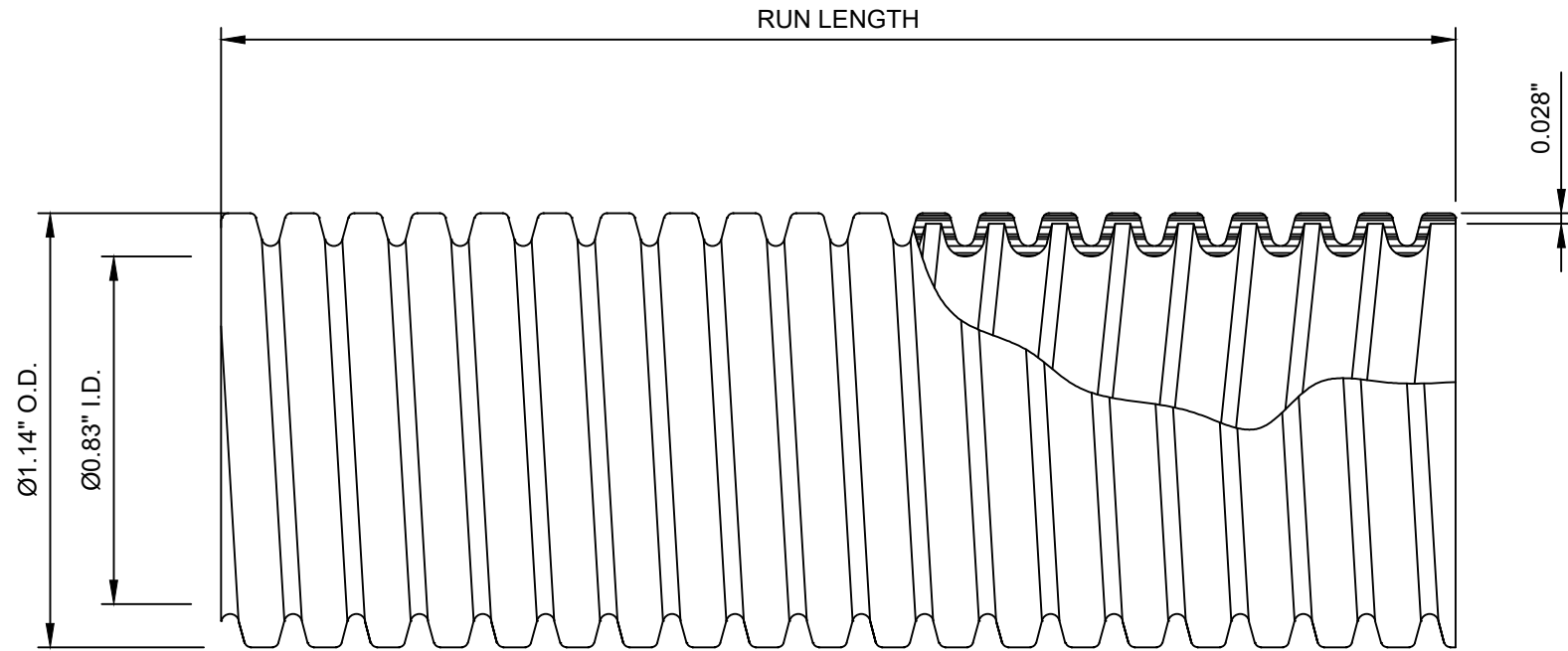
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5
4
3
2
NO

TITLE BLOCK UPDATED
UPDATED MATERIAL TYPE
ADDED INVENTORY NUMBER
REVISED DIMENSIONS PER ENG. SPEC.
DESCRIPTION

CDL	ZX	16APR2018
TKW		06OCT1997
RDC		18FEB1997
RDC	BB	07APR1995
BY	CHK	DATE



TOLERANCES
UNLESS OTHERWISE SPECIFIED

FRACTIONAL _____ ± 1/32
 DECIMAL _____X ± .030
 _____XX ± .010
 _____XXX ± .005

ANGULAR _____ ± 1/2°
 SURFACE QUALITY _____

NOTES:
 1. BREAK SHARP EDGES .010 MAX.
 2. REMOVE ALL BURRS
 3. ALL RADII 1MM UNO
 4. DO NOT SCALE DRAWING
 5. DIMENSIONS IN MM SHALL CONFORM TO DIN 1685 GTB16 TOLERANCES
 6. MATERIAL: HDPE

INVENTORY#: 02DT0310

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PROJECT NO:	SYSTEM	TITLE BLOCK UPDATED	CDL ZX
SHEET NO:	NTS	RELEASED FOR PRODUCTION	GDH NDS
		NO	BY CHK
		DESCRIPTION	DATE
			02JUL2018
			26APR2004

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A Structural Group Company

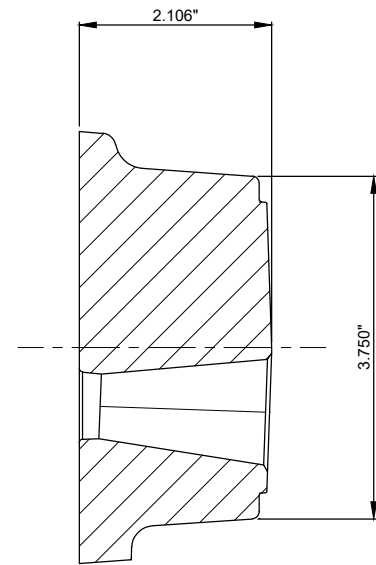
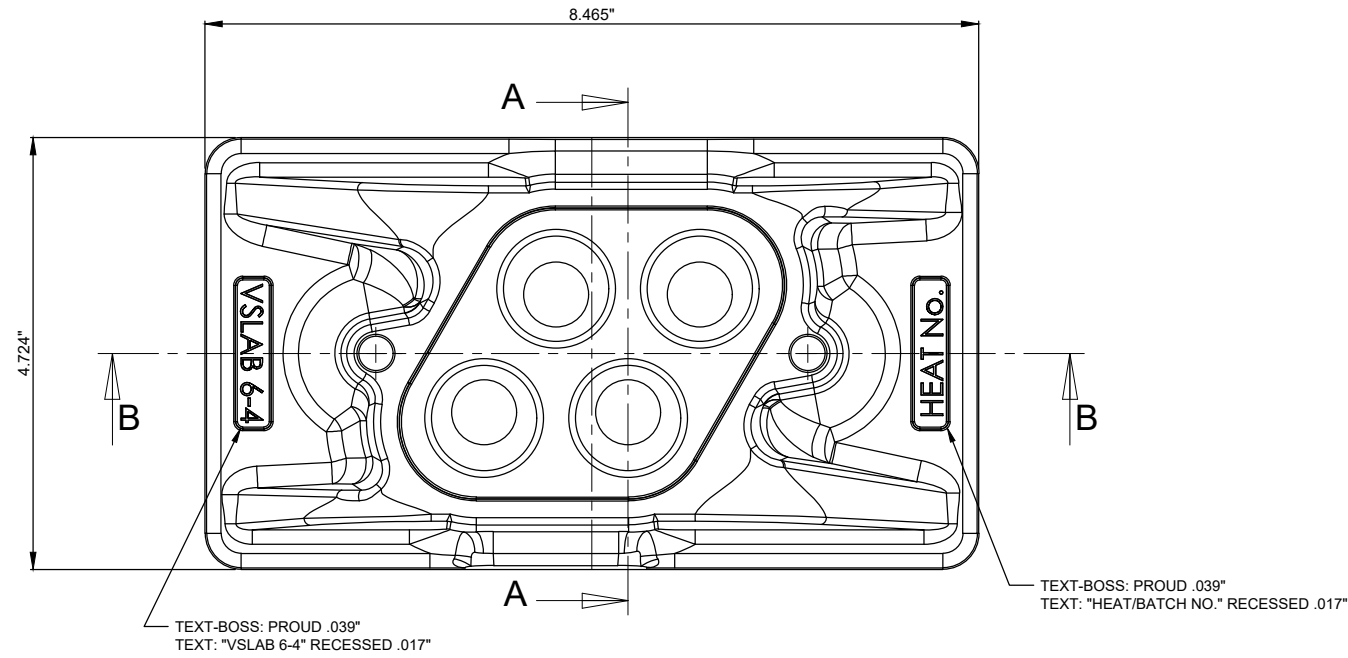
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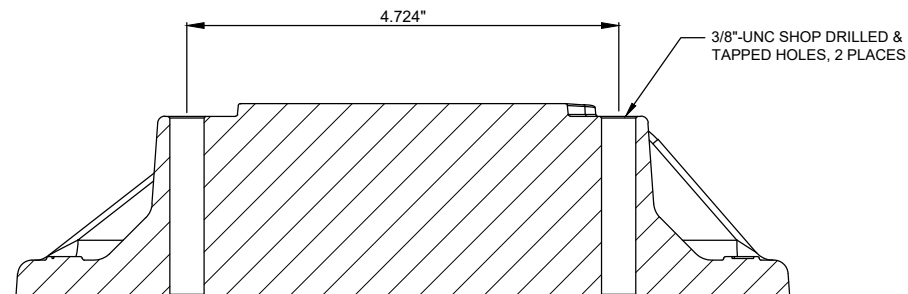
STRUCTURAL TECHNOLOGIES, LLC
 DALLAS OFFICE
 15600 TRINITY BLVD., SUITE 118
 FORT WORTH, TX 76156

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	23MM HOSE
PROJECT NO:	SYSTEM
SHEET NO:	NTS
C587	

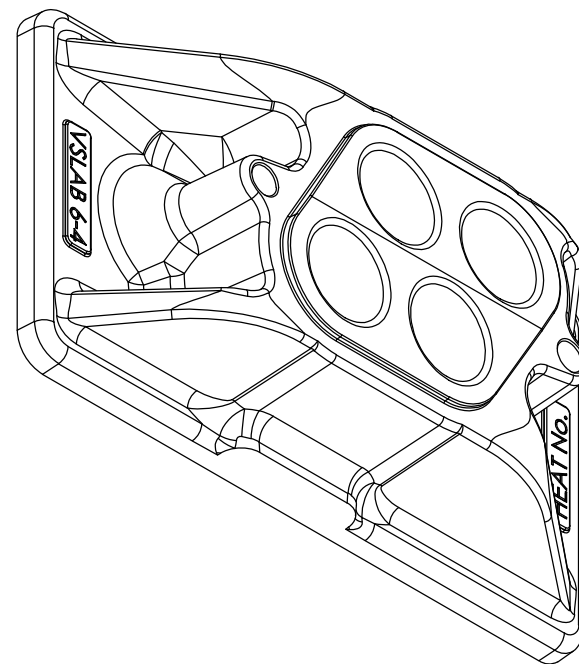
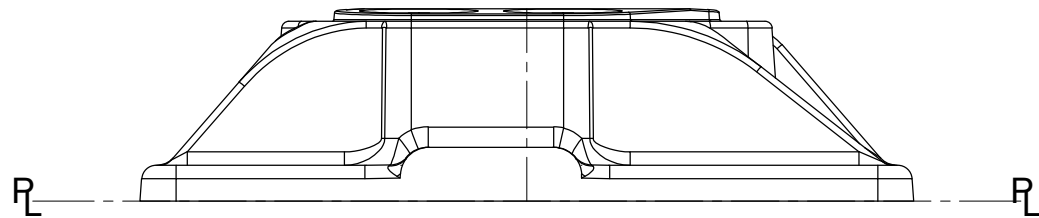
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SECTION A-A

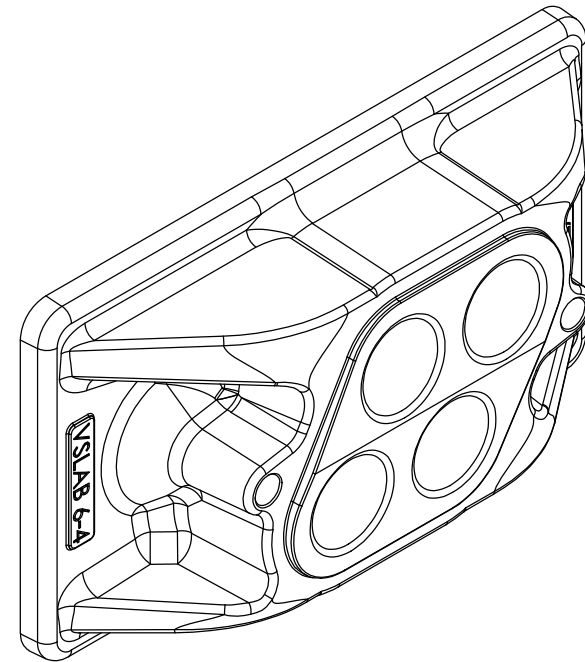


SECTION B-B



NOTES:

1. MATERIAL: CAST DUCTILE IRON GRADE 80-55-06 ACCORDING TO ASTM A536
2. U.N.O. DIMENSIONS IN INCHES
3. APPROX. WEIGHT: 10.5-11 LBS.
4. PART# 02VS06401
5. DO NOT SCALE DRAWING

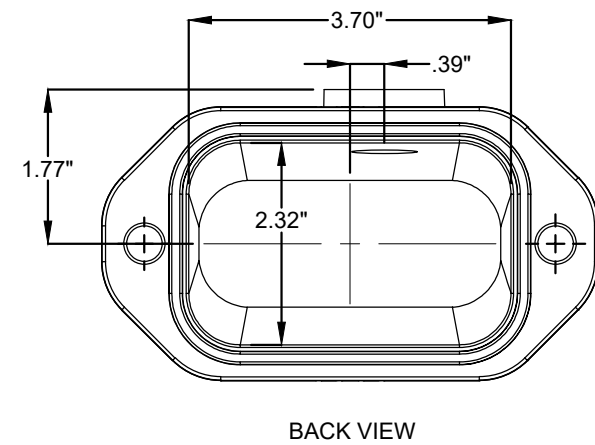
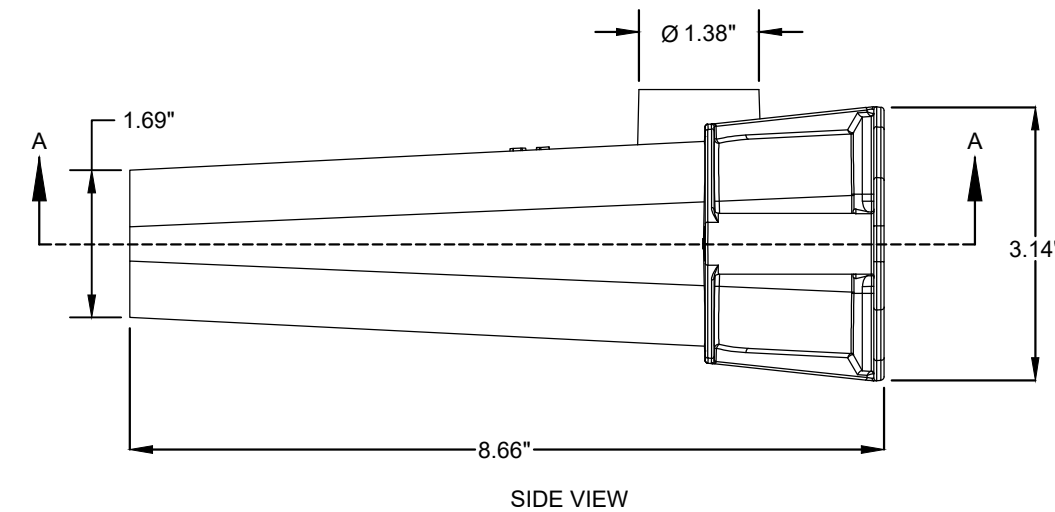
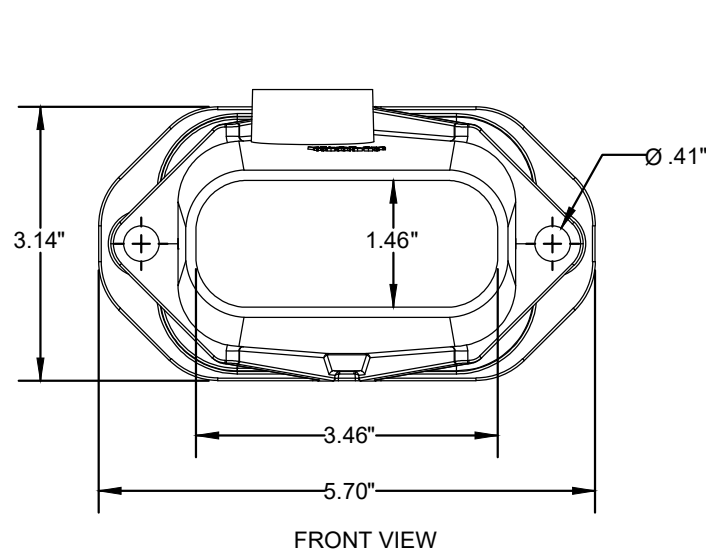
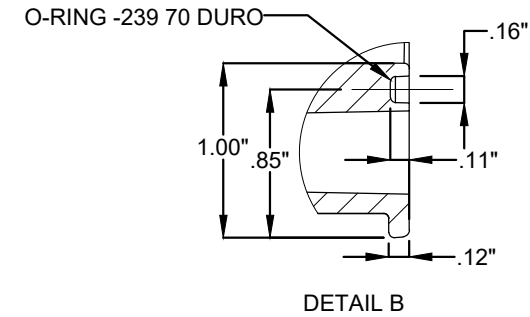
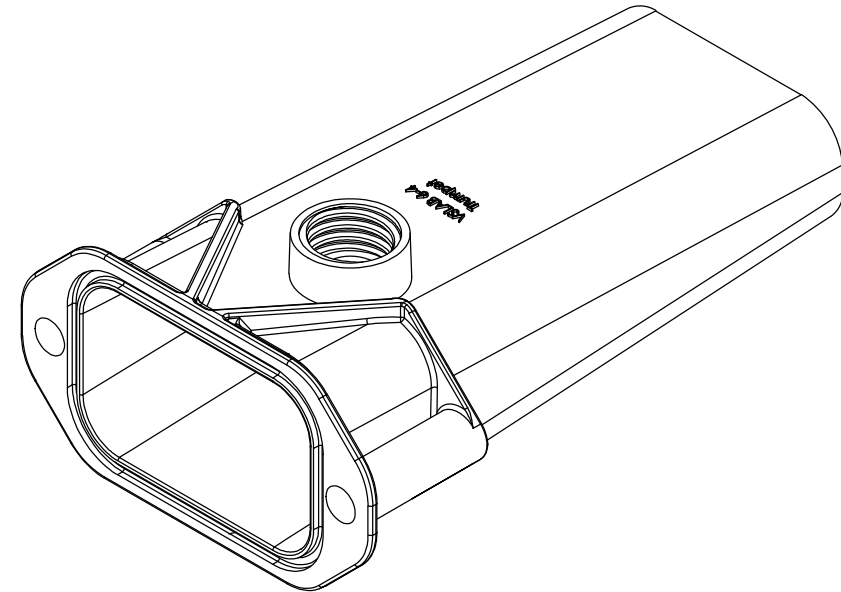
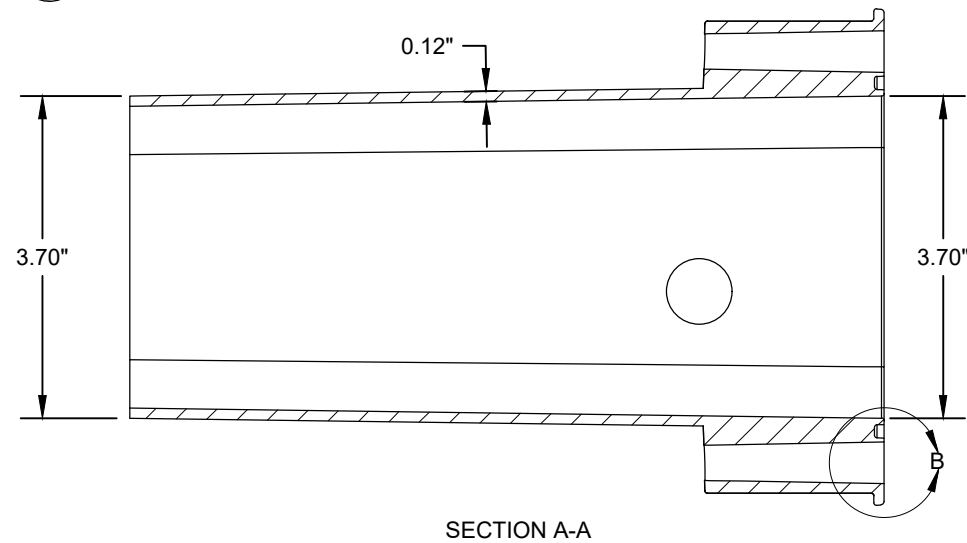
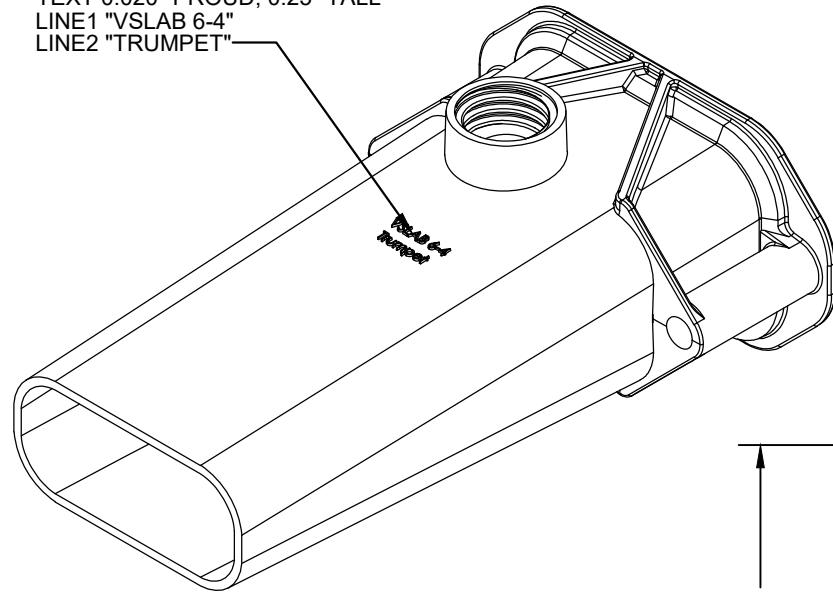


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PROJECT INFORMATION:		TITLE BLOCK UPDATED		CDL	ZX	26JUN2018
SYSTEM DRAWING		ISSUED FOR PRODUCTION		MM	BY	CHK
VSLAB 6-4 ANCHORAGE		DESCRIPTION		NO		DATE
PROJECT NO: SYSTEM		NO				
SHEET NO: C652		NO				
SCALE: NTS		NO				
TITLE: VSLAB 6-4 ANCHORAGE		NO				
PROJECT INFORMATION:		NO				
STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15800 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76156		NO				
VSL structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		NO				
PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		NO				

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

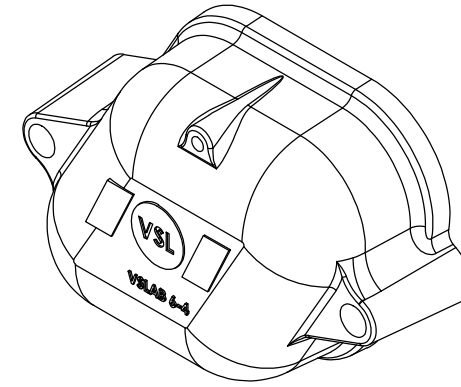
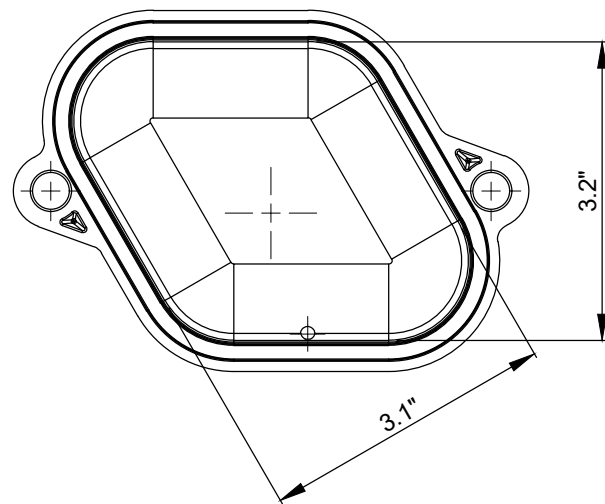
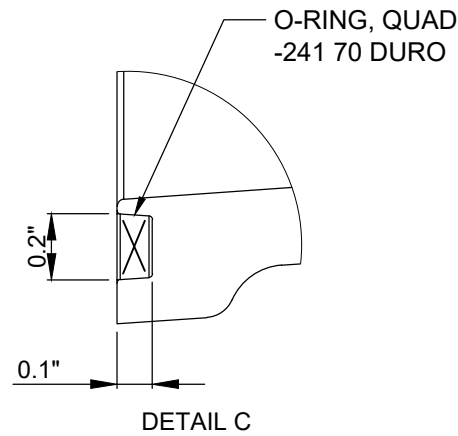
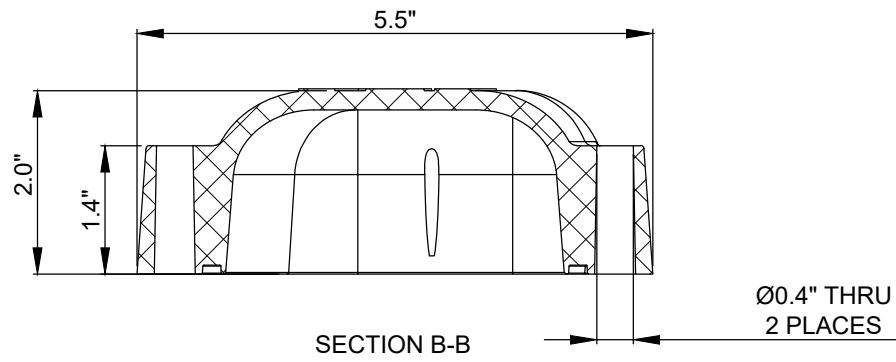
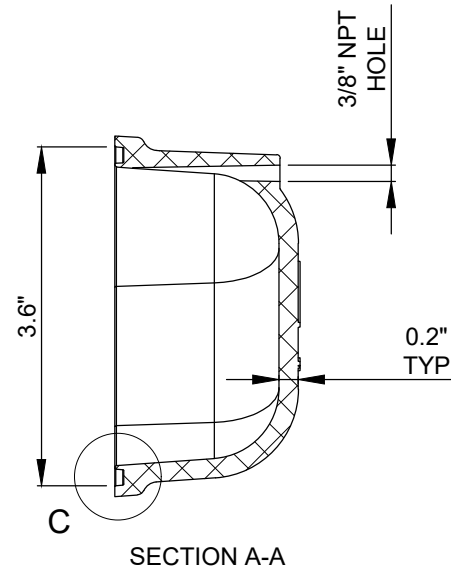
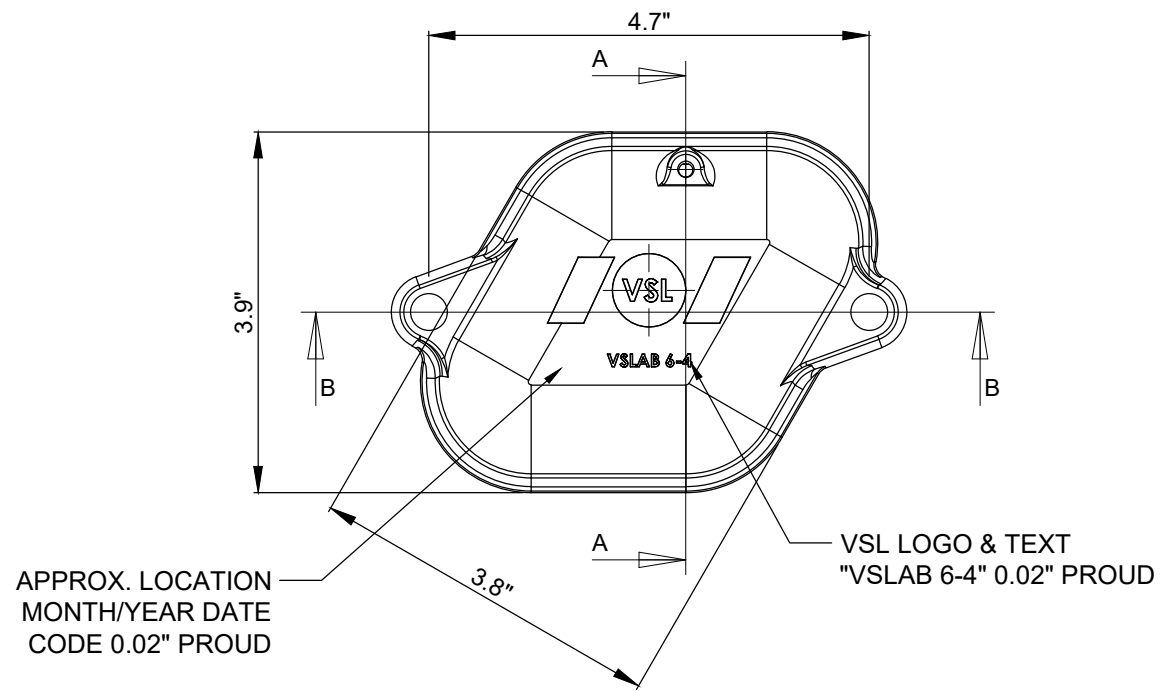
TEXT 0.020" PROUD, 0.25" TALL
 LINE1 "VSLAB 6-4"
 LINE2 "TRUMPET"



MATERIAL: POLYPROPYLENE
 INVENTORY#: 02VS06405

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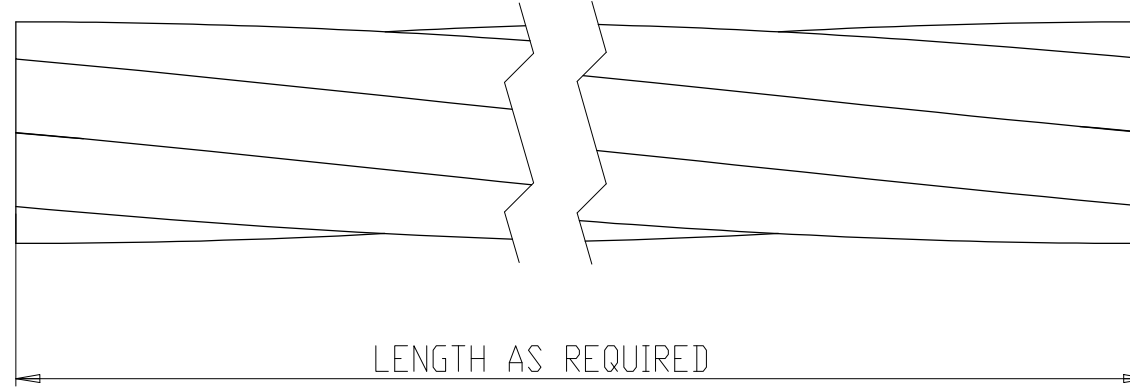
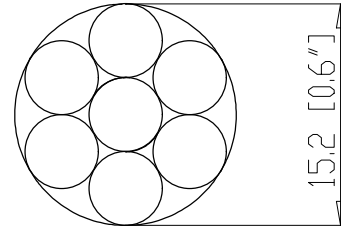
PROJECT INFORMATION:		TITLE BLOCK UPDATED		CDL	ZX	22JUN2018
SYSTEM DRAWING		RELEASED FOR FABRICATION		TA	BY	CHK
VSLAB 6-4 TRUMPET		DESCRIPTION		NO	NO	DATE
PROJECT NO: SYSTEM		SCALE: NTS		THIS DOCUMENT, INCLUDING ANY DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HEREIN, IS THE PROPERTY OF STRUCTURAL TECHNOLOGIES / VSL. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE PRIOR WRITTEN CONSENT OF STRUCTURAL TECHNOLOGIES / VSL. FURTHER, THE USE OF THIS DOCUMENT OR ANY INFORMATION CONTAINED HEREIN FOR ANY PURPOSE OTHER THAN THAT SPECIFICALLY AUTHORIZED BY STRUCTURAL TECHNOLOGIES / VSL IS STRICTLY PROHIBITED. UNAUTHORIZED USE OF THIS DOCUMENT OR ANY INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED AND WILL BE PUNISHED AS UNLAWFUL. UNAUTHORIZED USE OF THIS DOCUMENT OR ANY INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED AND WILL BE PUNISHED AS UNLAWFUL.		
SHEET NO: C653		DATE		23OCT2013		



- NOTES:
1. MATERIAL: ABS WITH 20% GLASS FIBER, BLACK IN COLOR
 2. U.N.O. DIMENSIONS IN INCHES
 3. PART# 02VS06402
 4. DO NOT SCALE DRAWING

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PROJECT INFORMATION:		CDL	ZX	26JUN2018
SYSTEM DRAWING		DTS	ZX	28FEB2014
TITLE: VSLAB 6-4 GROUT CAP		MM		15FEB2011
PROJECT NO: SYSTEM	SCALE: NTS	BY	CHK	DATE
SHEET NO:	C654			
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PROJECT INFORMATION:

SYSTEM DRAWING

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

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
C674



STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
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FORT WORTH, TX 76156

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NO

NO

TITLE BLOCK UPDATED

FOR FDOT

CDL ZX

MM

BY

CHK

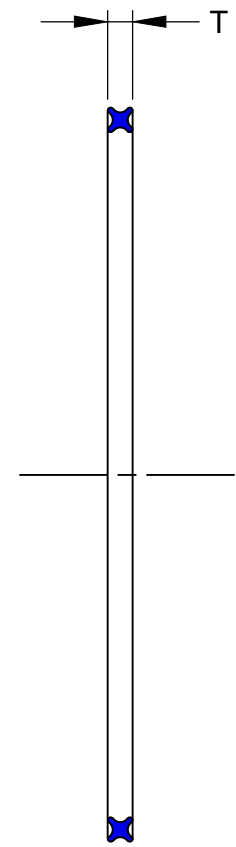
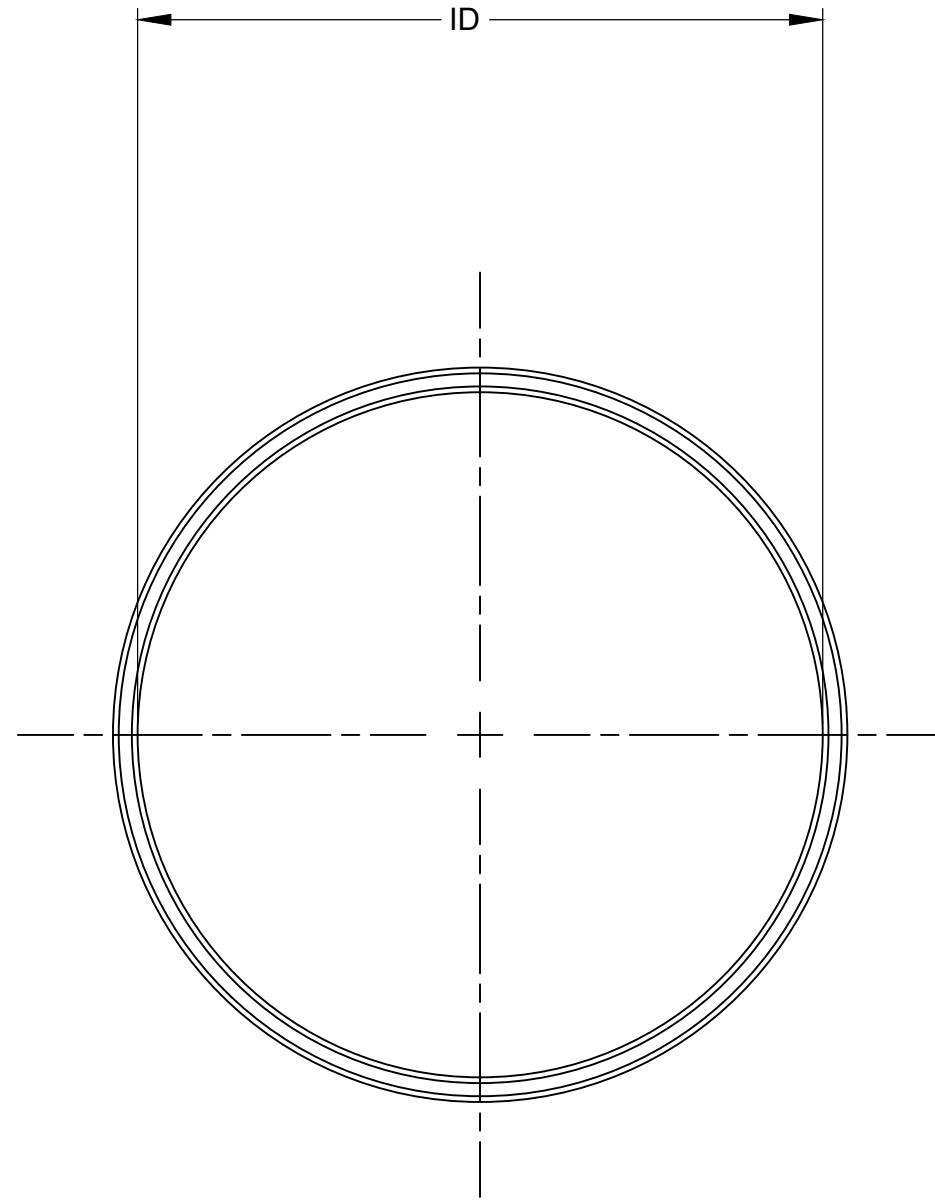
DATE

26FEB2018

DESCRIPTION

NO

MATERIAL: NITRILE RUBBER



QUAD RINGS:

ITEM	ID	T	INVENTORY #
GROUT CAP QUAD-RING (-241)	3.859"	0.139"	02VS06403
POCKET FORMER QUAD-RING (-242)	3.984"	0.139"	02VS06412

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:
SYSTEM

SHEET NO:

QUAD RINGS FABRICATION

SCALE:
NTS

C699

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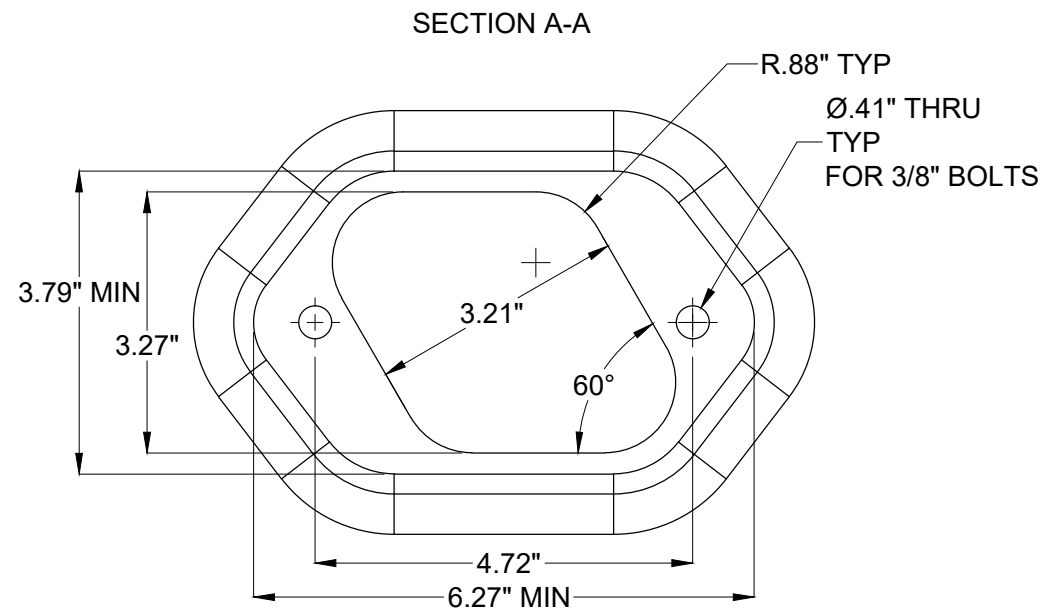
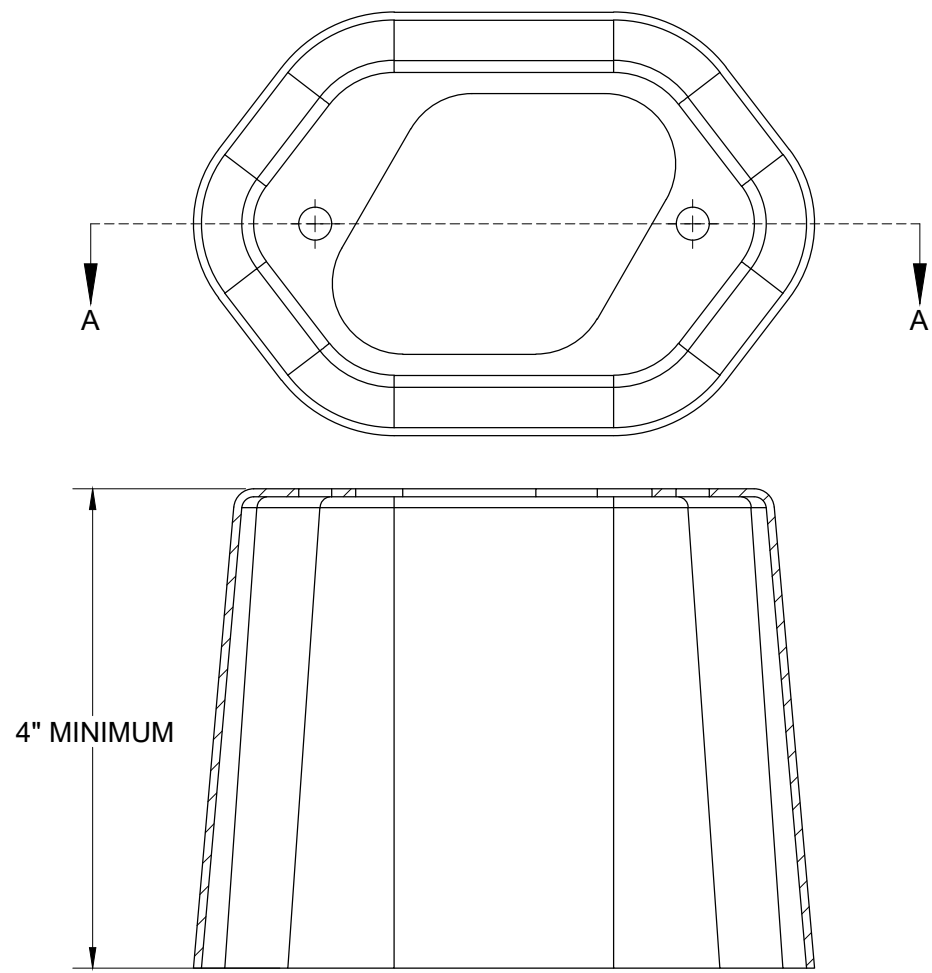
STRUCTURAL TECHNOLOGIES, LLC
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15600 TRINITY BLVD., SUITE 118
FORT WORTH, TX 76156

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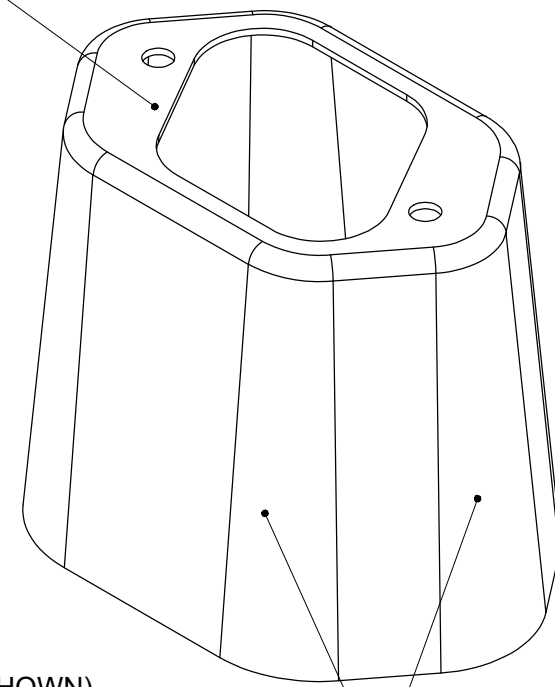
3
2
1
NO

TITLE BLOCK UPDATED
UPDATE TITLE FOR CLARITY
RELEASED FOR PRODUCTION
DESCRIPTION

CDL ZK 04APR2018
DTS ZK 28FEB2014
GB MM 11MAR2011
BY CHK
DATE



USE GASKET, SILICON, OR OTHER METHOD TO SEAL POCKET FORMER TO ANCHORAGE



UTILIZE SQUARED (NOT SHOWN) OR ROUNDED GEOMETRY AS LONG AS ALL SURFACES HAVE POSITIVE DRAFT FOR CONCRETE RELEASE

- NOTES:
- DIMENSIONS PROVIDED FOR REFERENCE ONLY
 - CONTRACTOR MAY DESIGN AND BUILD POCKET FORMER TO SUIT
 - MATERIAL SELECTION AT CONTRACTOR'S DISCRETION
 - SEE SHEET C652 FOR ANCHORAGE DETAILS
 - PART NUMBER: 02VS06404

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PROJECT INFORMATION:		CDL		16ARP2018	
SYSTEM DRAWING		ZK		CHK	
VSLAB 6-4 POCKET FORMER		MM		BY	
TITLE:		NO		DESCRIPTION	
PROJECT NO: SYSTEM		NO		FOR REFERENCE ONLY	
SCALE: NTS		NO		TITLE BLOCK UPDATED	
SHEET NO: C700		NO		15MAR2011	
DATE		NO		DATE	

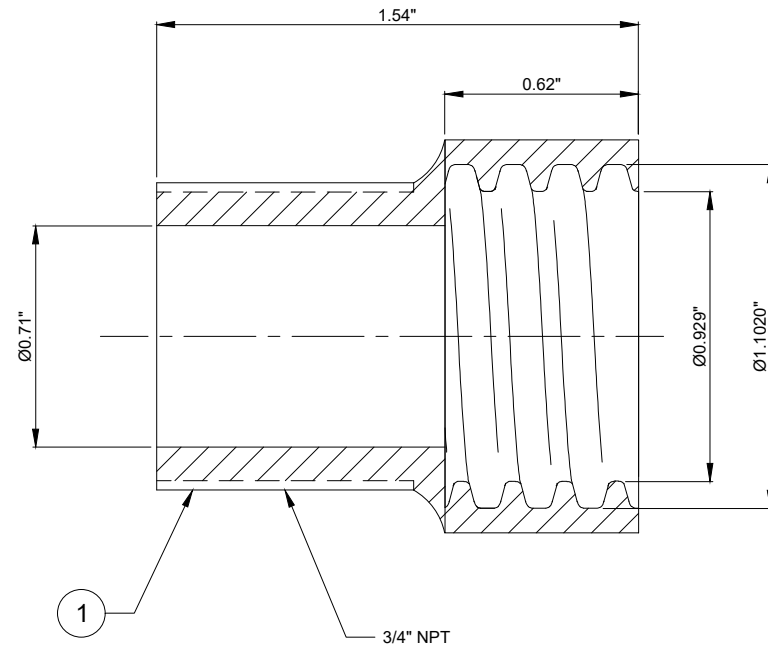
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SECTION VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	23MM F3/4 FITTING	BLACK POLYPROPYLENE	02DT0316

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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PROJECT INFORMATION:

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C715

SYSTEM DRAWING

TITLE:
23MM F3/4 FITTING FABRICATION



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NO

RELEASED FOR CONSTRUCTION

DESCRIPTION

CDL

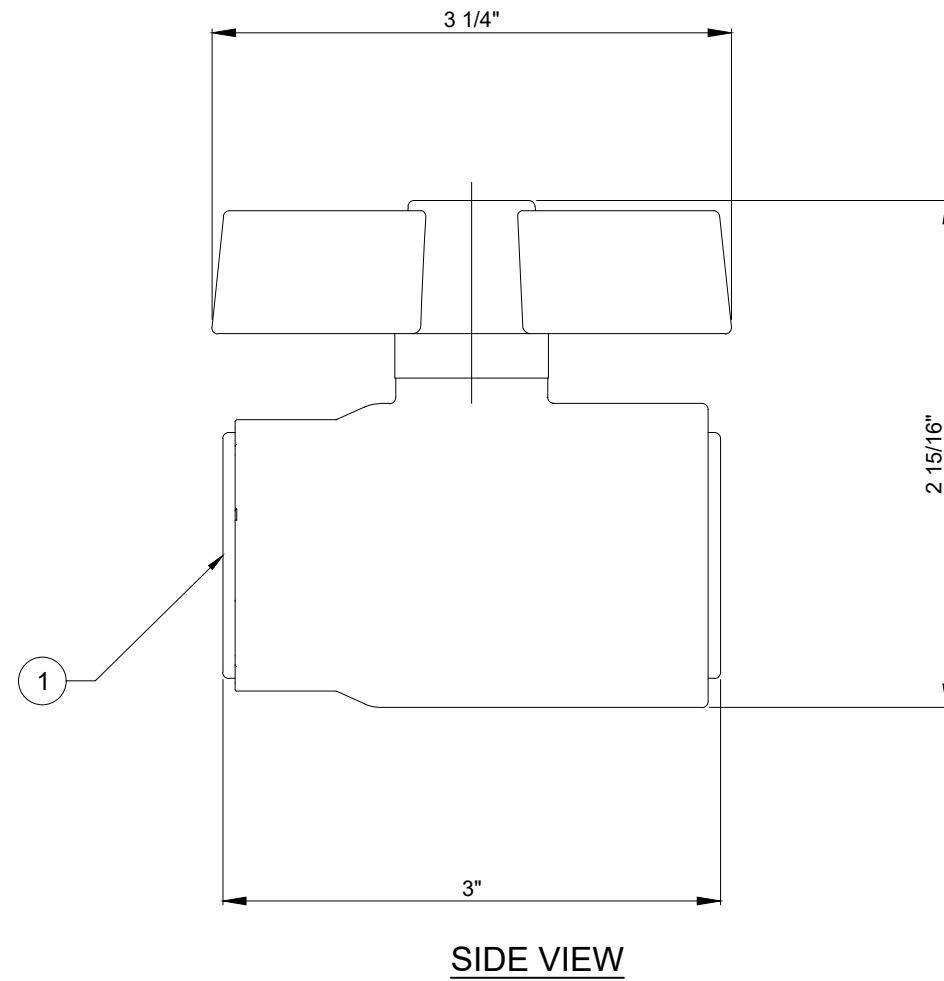
ZX

08FEB2018

BY

CHK

DATE



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT 1/4 TURN BALL VALVE	SCH 80 PVC	02DT01916

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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PROJECT INFORMATION:

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C720

SYSTEM DRAWING

TITLE:
3/4" NPT 1/4 TURN BALL VALVE



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NO

FIRST ISSUE

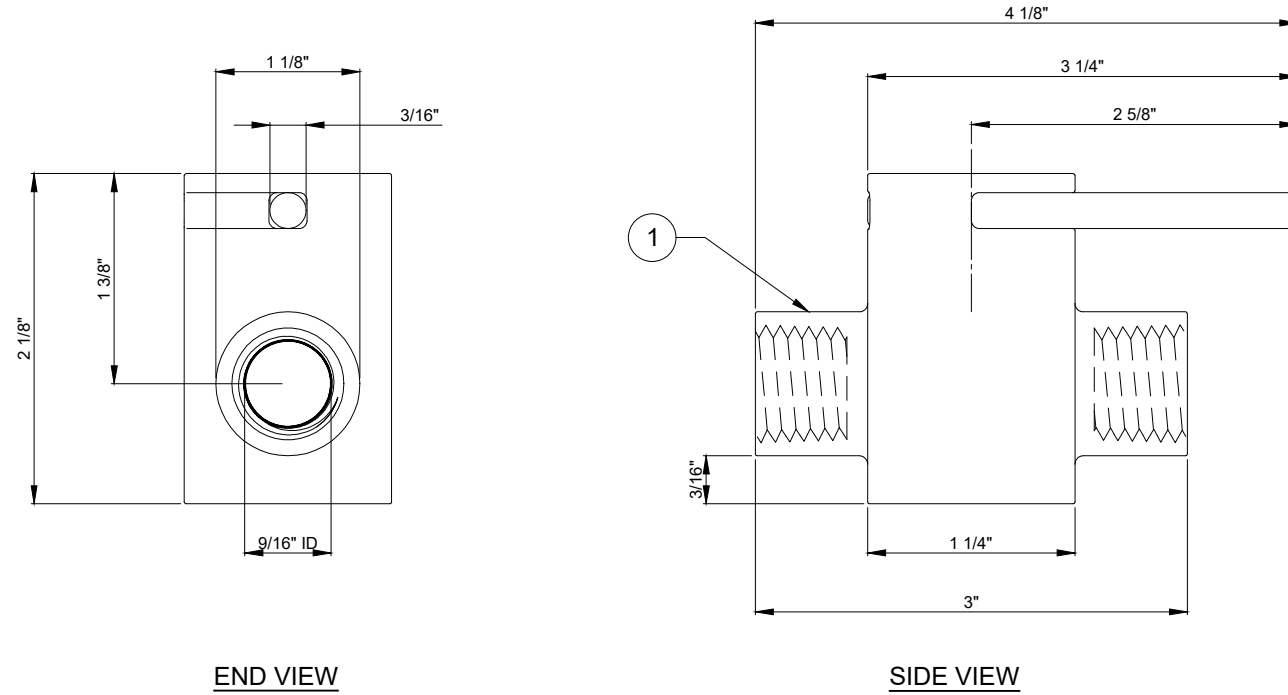
DESCRIPTION

BY

CHK

DATE

08FEB2018



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/8" NPT PVC 1/4 TURN BALL VALVE	SCH 80 PVC	02DT01933

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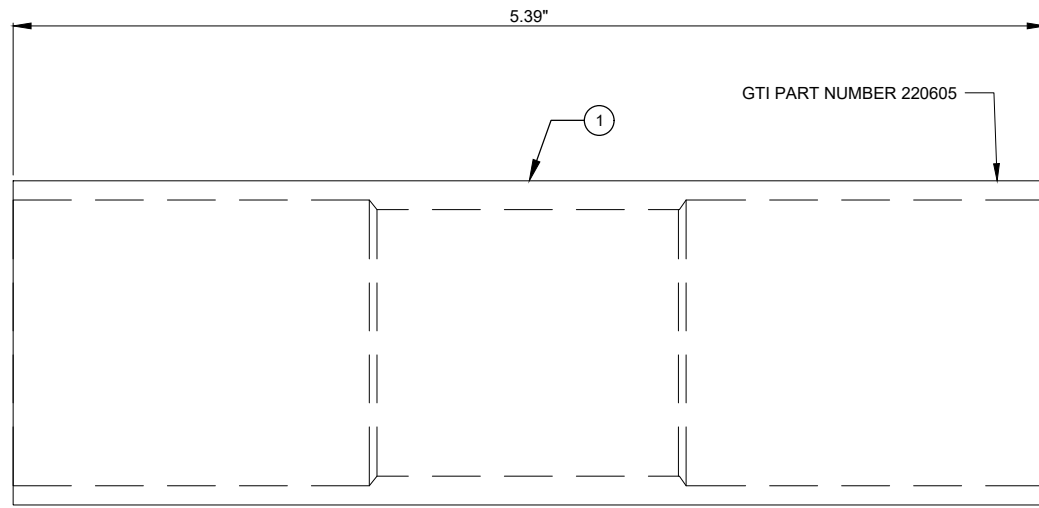
PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	-	SCALE:	NTS
SHEET NO:		TITLE:	3/8" NPT PVC 1/4 TURN BALL VALVE
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FIRST ISSUE		CDL	ZX
DESCRIPTION		BY	CHK
			DATE
			13APR2018

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A Structural Group Company

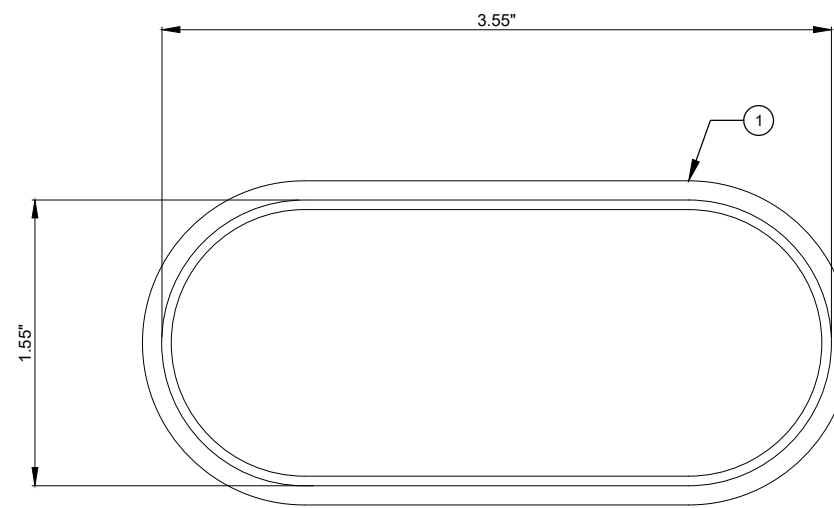
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15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156



SIDE VIEW



END VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	GTI SLIP-ON COUPLER W/O VENT	POLYPROPYLENE	02GT07621

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PROJECT INFORMATION:

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C785



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FIRST ISSUE

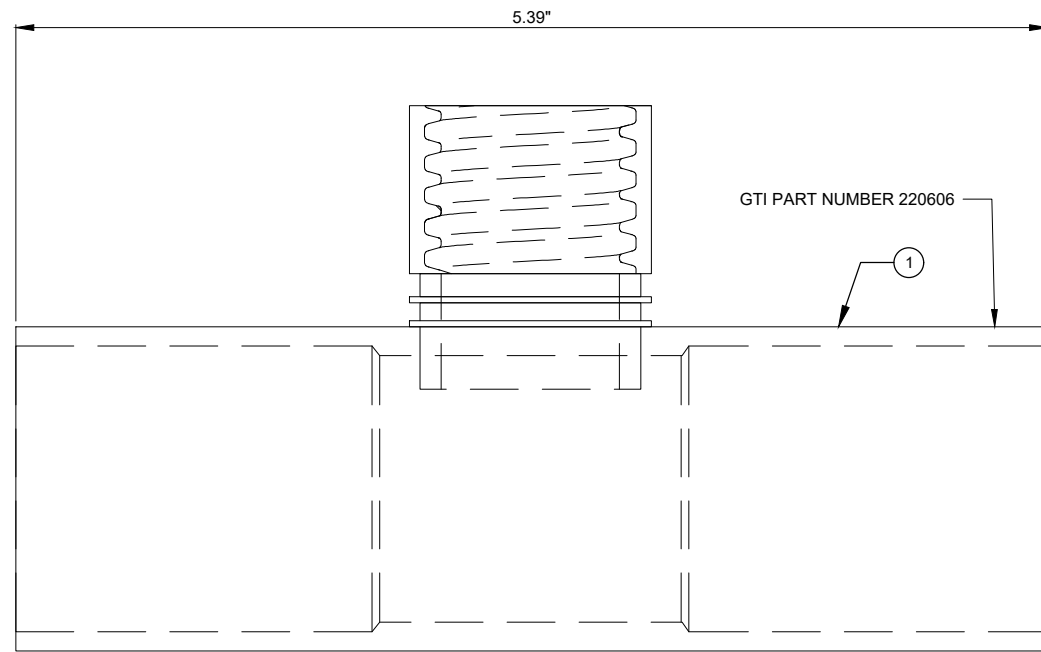
DESCRIPTION

BY

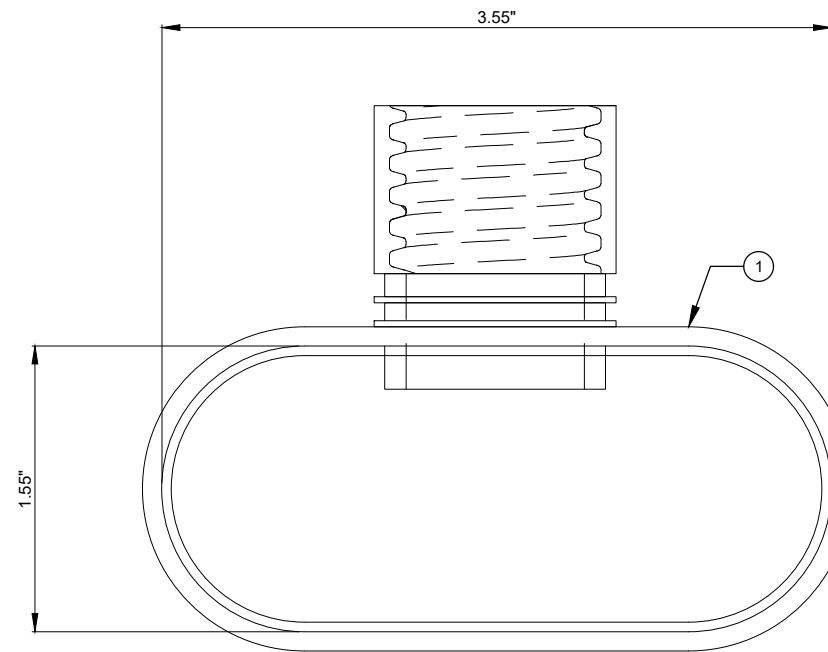
CHK

DATE

26JUN2018



SIDE VIEW



END VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	GTI SLIP-ON COUPLER W/ VENT	POLYPROPYLENE	02DT07621V

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PROJECT INFORMATION:

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
C786

SYSTEM DRAWING

TITLE:
GTI SLIP-ON COUPLER W/ VENT



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NO

FIRST ISSUE

DESCRIPTION

CDL

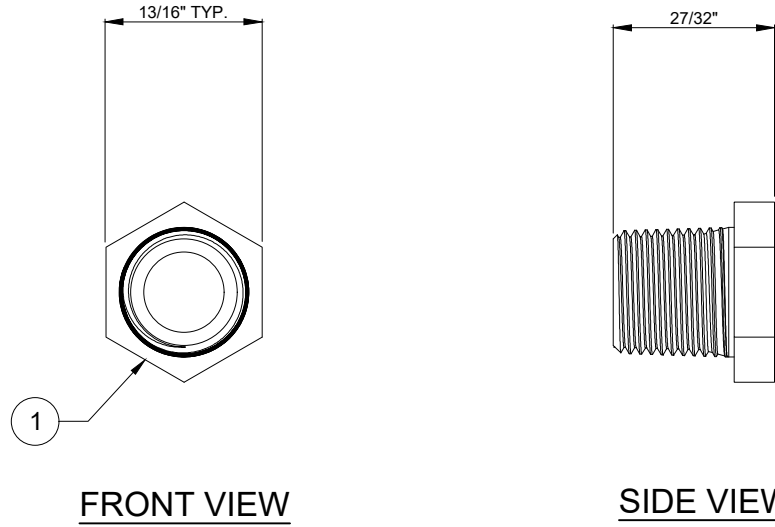
ZX

26JUN2018

BY

CHK

DATE

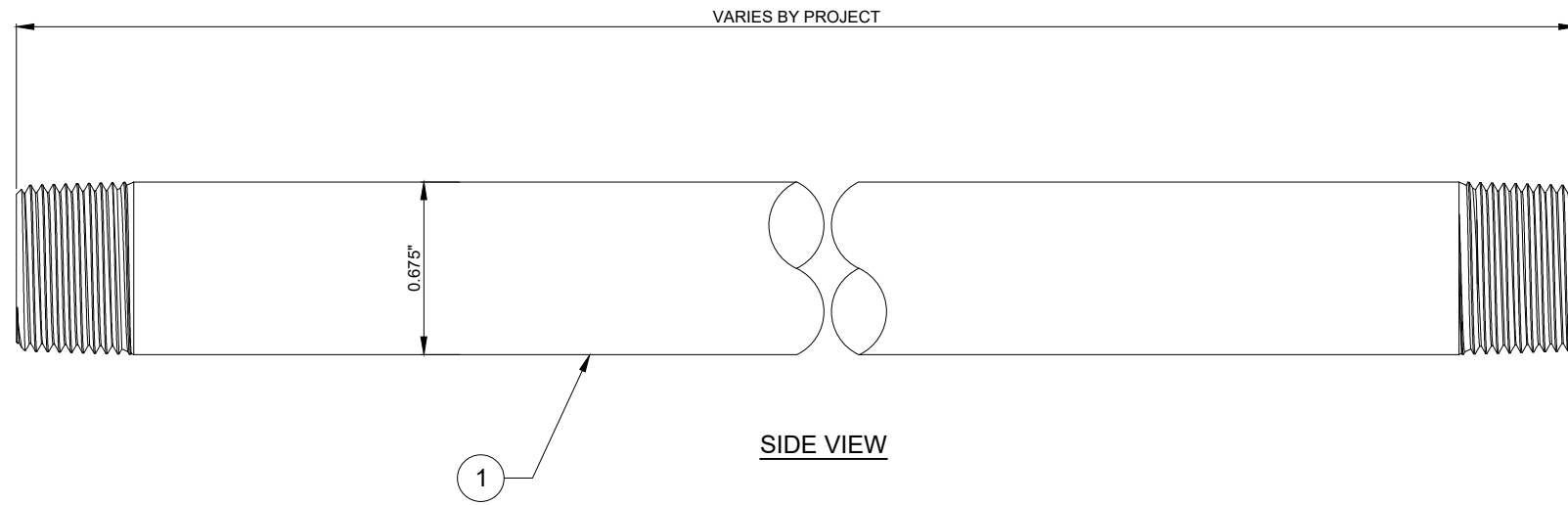


ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/8" NPT PE PLUG	POLYETHYLENE	02DT01934

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		RELEASED FOR PRODUCTION	DATE
SYSTEM DRAWING		DESCRIPTION	26JUN2018
3/8" NPT PE PLUG			
SCALE:			
NTS			
C789			



ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3/8" NPT PVC NIPPLE	SCH 80 PVC

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PROJECT NO:	1	NO	NO
SHEET NO:	C790	DESCRIPTION	FIRST ISSUE
		BY	CDL
		CHK	ZX
		DATE	26JUN2018



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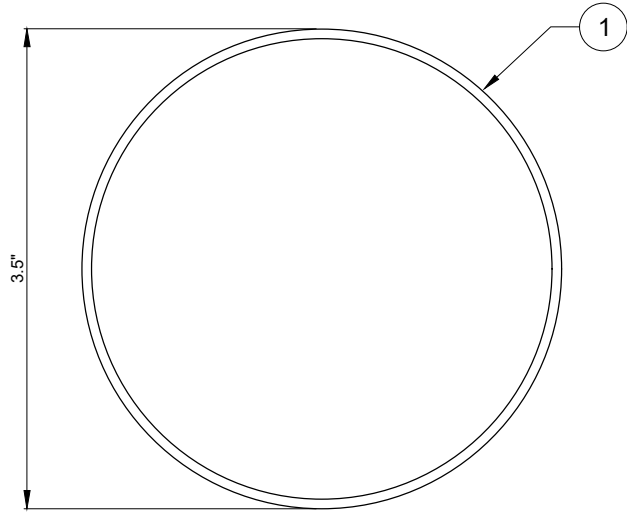
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STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

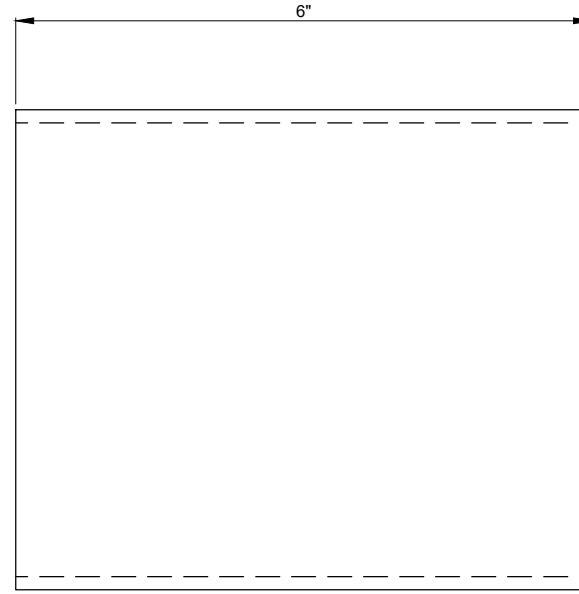
PHONE: (817) 545-4877
FAX: (817) 545-4827
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SYSTEM DRAWING

3/8" NPT PVC NIPPLE



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	CANUSA PLA-63-YE x 6" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0503

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -

SHEET NO:

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

SCALE:
NTS

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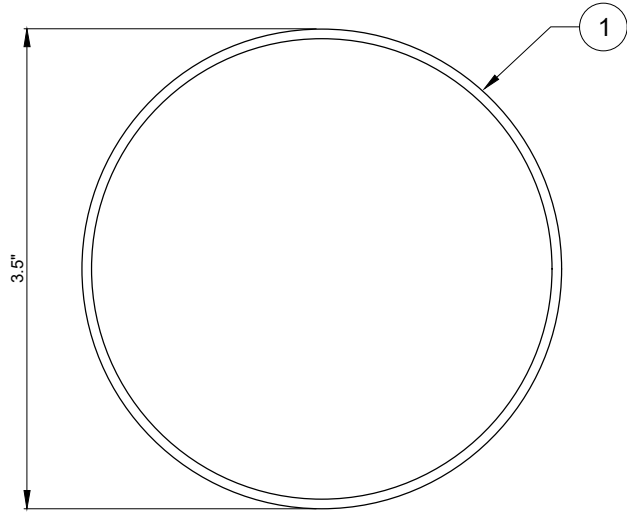
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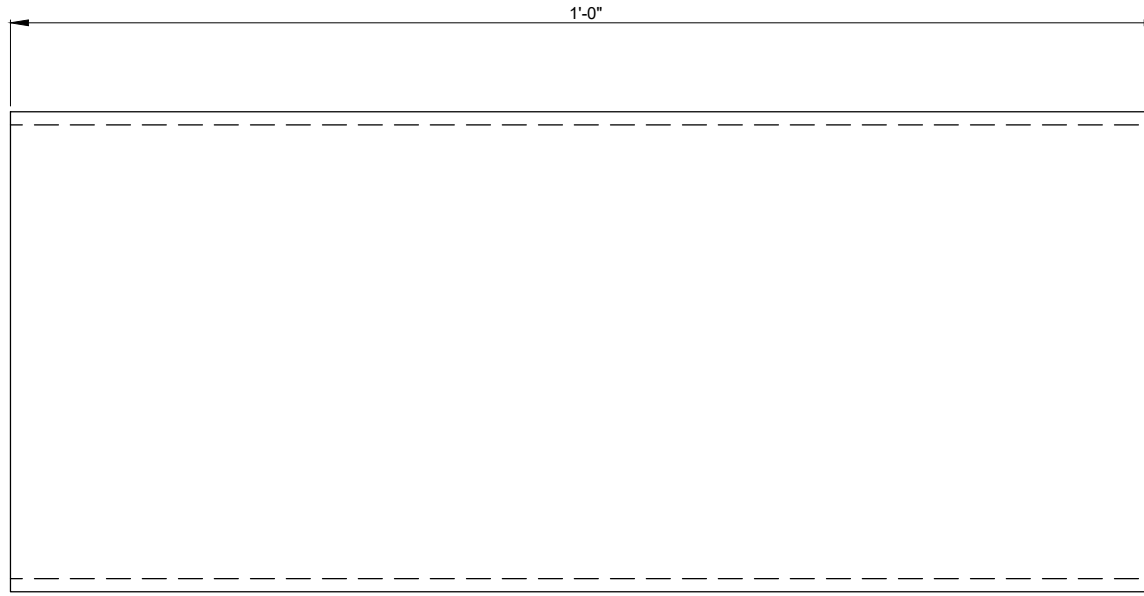
BY CDL

CHK ZX

DATE 26JUN2018



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	CANUSA PLA-63-YE x 12" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0504

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -
SHEET NO:

TITLE:
PLA-63-YE 63MMx12" HEAT SHRINK SLEEVE

SCALE:
NTS

C792

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NO

FIRST ISSUE

DESCRIPTION

CDL

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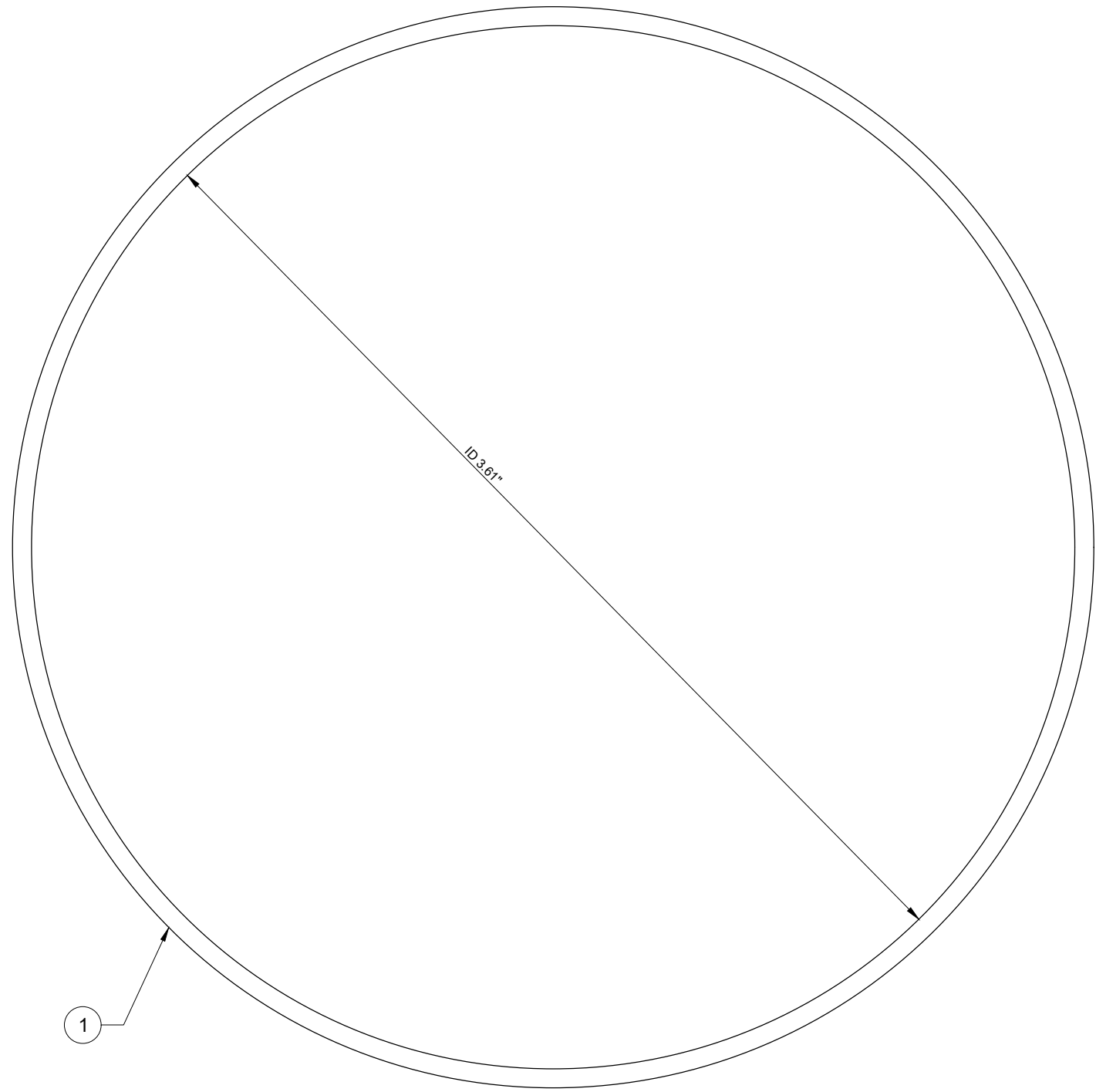
26JUN2018

DATE

BY

CHK

DATE



ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY#
1	-	VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D	3.61"x3.88"x0.135"	02VS06406

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:
SYSTEM

SHEET NO:

TITLE:
VSLAB 6-4 TRUMPET O-RING

SCALE:
NTS

C793

structural TECHNOLOGIES
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