

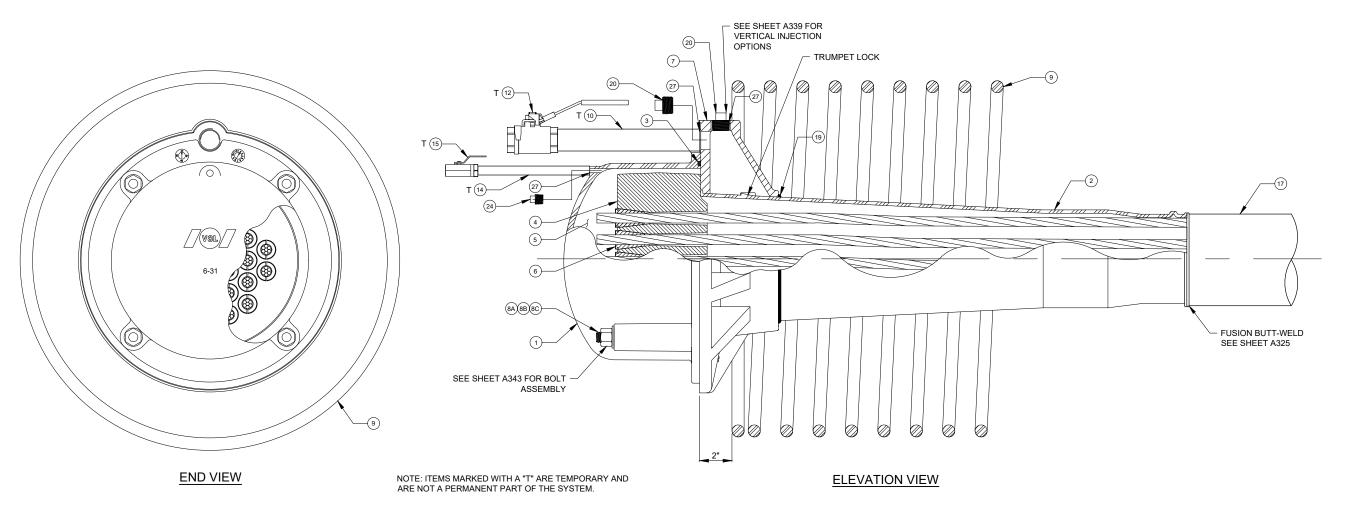
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Se A	STRUCT DALLAS 15600 TF FORT W
SYSTEM DRAWING	TITLE: NCS 6.31 OVERALL ASSEMBLY WITH FLEXIBLE FILLER
ROJECT NO:	SCALE: NTS
HEET NO:	A315
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26FEB2018 DATE

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	6-31 ANCHORAGE CAP W/ 1/4" FRONT PORT	ABS	02GC63102
2	1	NCS 6-31 TRUMPET	POLYETHELYNE	02BP4436
3	1	6-31 ANCHORAGE CAP O-RING	HNBR	02WX5044
4	1	NCS 6-31 ANCHOR HEAD CAST	A536 GR80-55-06	02AH6031
5	-	FLEXIBLE FILLER	FDOT APL	-
6	31	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	NCS 6-31 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6031V
8A	1 SET	5/8"-11 THREADED ROD X 7"	(316L) STAINLESS	02WX6023D
8B	1 SET	5/8"-11 NUT	(316L) STAINLESS	02WX6023D
8C	1 SET	5/8" WASHER	(316L) STAINLESS	02WX6023D
9	1	SPIRAL NCS 6-31 (#6, DIA. 22", 2" PITCH, 9 TURNS)	A615, GR 60	02BP0098
10	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-
12	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
15	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
17	-	5" DR-17 PIPE	HDPE	-
19	-	BONDUIT - SEAL AID 1/4" ALL AROUND	-	-
20	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
24	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
27	-	SILICONE GREASE	-	-

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

- ASSEMBLE TRUMPET INTO THE BEARING PLATE. APPLY 1/4" BONDUIT ALL AROUND LIP OF BEARING PLATE PRIOR TO INSTALLING TRUMPET. USE SLOT TO ALIGN PLATE AND TRUMPET. INSERT TRUMPET UNTIL LOCKING TABS ENGAGE
- 2. LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM. SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS. USE CARE NOT TO DAMAGE THREADS.
- 3. INSTALL AND SECURE SPIRAL.
- INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR (BY OTHERS).
- SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
- PER FDOT SPECIFICATION SECTION 462-8.2.1.2, A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE
- CONCRETE PLACEMENT OCCURS BY OTHERS.
 INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
- INSTALL ANCHOR HEADS. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
- 10. ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
- ELONGATION SHOULD BE WITHIN ±7%.
- 12. AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
- 13. AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP. REINSTALL O-RING INTO ANCHORAGE CAP.
- 14. SYSTEM IS NOW READY TO AIR TEST.
- 15. PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER STRAND STRESSING AND PRIOR TO WAX INJECTION.
- 16. WAX TENDON PER WAX SPEC.

ROJECT NO:

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A314

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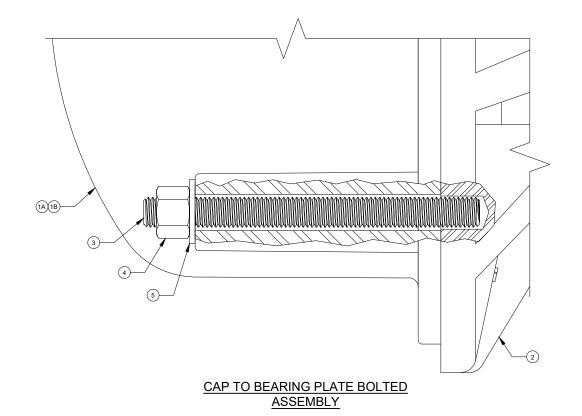
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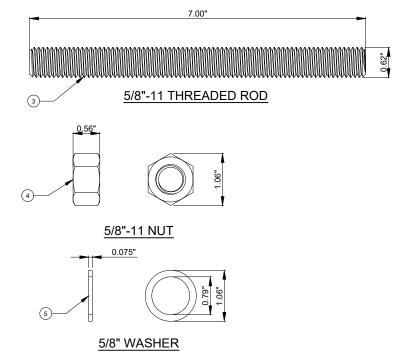
PLOT DATE/TIME: 27Jun2018 1:37 PM FILE NAME: A314 NCS 6-31 Flexible Filler System.dwg

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7.00"
3 5/8"-11 THREADED ROD
4
<u>5/8"-11 NUT</u>
5 J J J J J J J J J J J J J J J J J J J
5/8" WASHER

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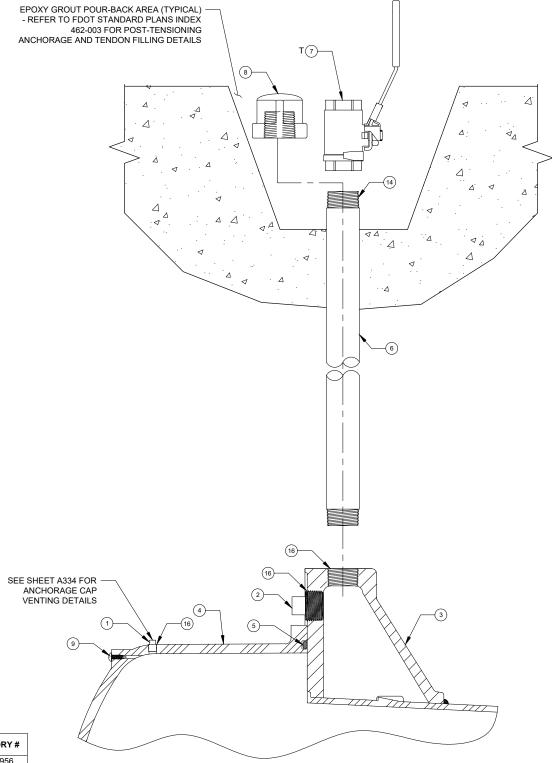
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SCALE: NTS

A343

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1A	1	6-31 ANCHORAGE CAP W/ 1/4" FRONT PORT	ABS	02GC63102
1B	1	6-31 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC63103
2	1	NCS 6-31 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6031V
3	1 SET	5/8"-11 THREADED ROD X 7"	(316L) STAINLESS	02WX6023D
4	1 SET	5/8"-11 NUT	(316L) STAINLESS	02WX6023D
5	1 SET	5/8" WASHER	(316L) STAINLESS	02WX6023D

PLOT DATE/TIME: 07Mar2018 9:03 AM FILE NAME: A343 NCS 6-31 Bolt Assembly.dwg



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
2	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	NCS 6-31 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6031V
4	1	6-31 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC63103
5	1	6-31 ANCHORAGE CAP O-RING	HNBR	02WX5044
6	1	1" NPT NIPPLE	SCH 40 STEEL	-
7	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
8	1	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951
9	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
14	-	SILICONE GREASE	=	-
16	-	BONDUIT	-	-

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

CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

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	DALLAS OFFICE	FAX: (817) 545-4827	STRUCTURAL TECHNOLO
NCS 6-31 VERTICAL INJECTION OPTIONS	15600 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76155	WWW.VSL.NET	DISCLAIMS ANY LIABILITY

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A339

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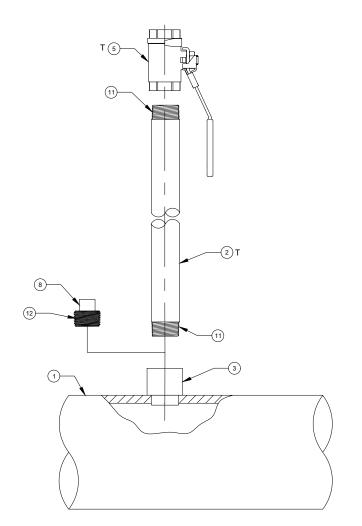
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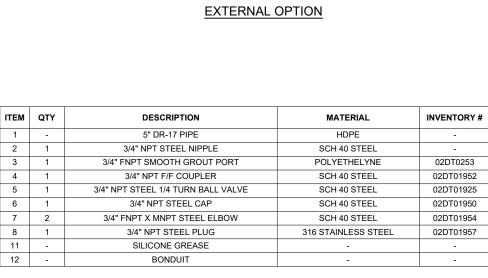
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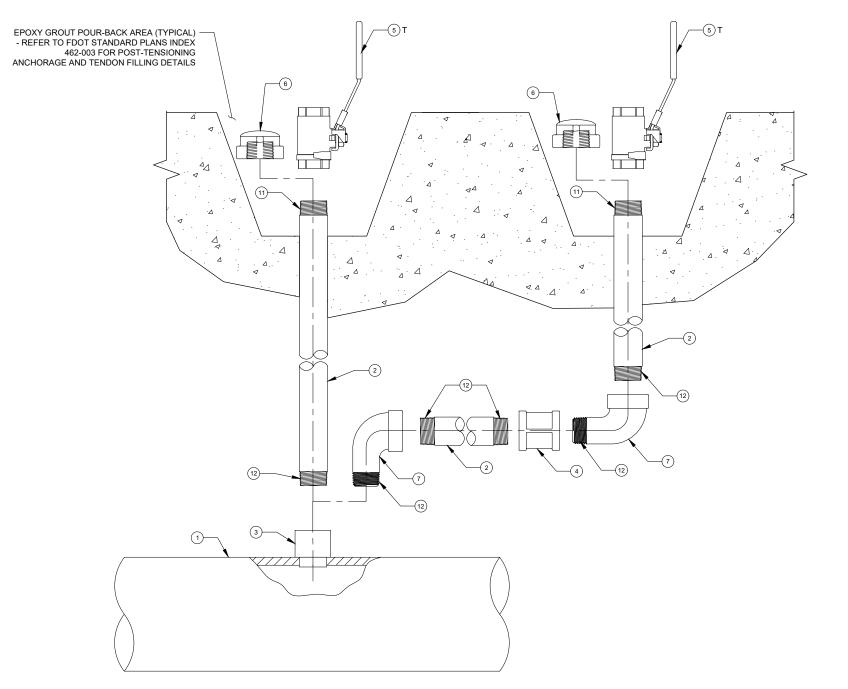
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INTERNAL OPTION

3/4" FNPT SMOOTH GROUT PORT INSTALLATION

- CLEAN PIPE PRIOR TO GROUT PORT INSTALLATION.
- DRILL Ø7/8" HOLE INTO PIPE.
- CONNECT THE SOCKET WELDING DEVICE TO THE POWER SOURCE.
 ALLOW THE SOCKET WELDING DEVICE TO REACH ITS WORKING
- TEMPERATURE.
- SIMULTANEOUSLY, INSERT MALE ADAPTER OF SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
- APPLY LIGHT PRESSURE FOR 20-25 SECONDS BY PUSHING THE GROUT PORT WITH THE PALM OF HAND.
- SIMULTANEOUSLY, REMOVE SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
 INSERT GROUT PORT INTO HOLE UNTIL THE SHOULDER IS REACHED.
- THIS OPERATION SHOULD BE CARRIED OUT AS QUICKLY AND CAREFULLY AS POSSIBLE, WITHIN 5 SECONDS. FIRMLY HOLD THE PIECES TOGETHER FOR A MINIMUM OF 10 SECONDS.

- NOTES

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

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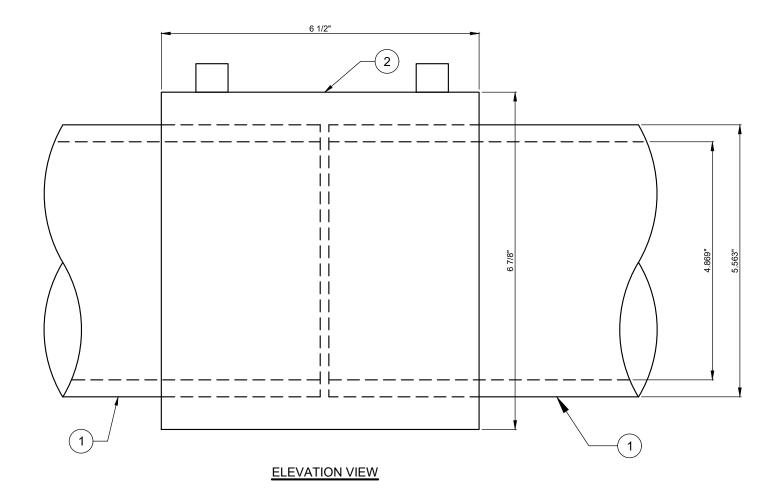
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26FEB20 DATE

ROJECT NO: SCALE: NTS

A324

PLOT DATE/TIME: 02Mar2018 2:53 PM FILE NAME: A324 5in HDPE Vent Assembly.dwg



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

- CUT SQUARE ENDS ON PIPE TO BE FUSED CLEAN BOTH PIPE ENDS
- SCRAPE BOTH PIPES MINIMUM 0.07" WITH PROVIDED SCRAPING TOOL
- CLEAN BOTH PIPE ENDS USING 90% OR GREATER ISOPROPYL ALCOHOL USE REROUNDING TOOLS PROVIDED TO CORRECT OVAL PIPE IF NECESSARY
- USE ALIGNMENT CLAMPS PROVIDED TO ENSURE PIPE IS ALIGNED WITH COUPLER
- SUPPORT PIPE AND COUPLER AND RESTRAIN PIPE TO PREVENT MOVEMENT CHECK FOR GAPS AND ELIMINATE AS NECESSARY ATTACH LEADS OF THE PROVIDED FUSION PROCESSOR TO THE COUPLER

- 10. SCAN THE BARCODE ON THE COUPLER
- 11. START FUSION PROCESS
- 12. WHEN FUSION PROCESS IS COMPLETE, UNPLUG THE LEADS
 13. DO NOT MOVE OR PRESSURIZE THE JOINT COMPONENTS BEFORE COOLING TIME HAS COMPLETED

ITEM	QTY	DESCRIPTION	MATERIAL
1	-	5" HDPE PIPE DR-17	ASTM D3035
2	1	5" ELECTROFUSION COUPLER	COMPOSITE

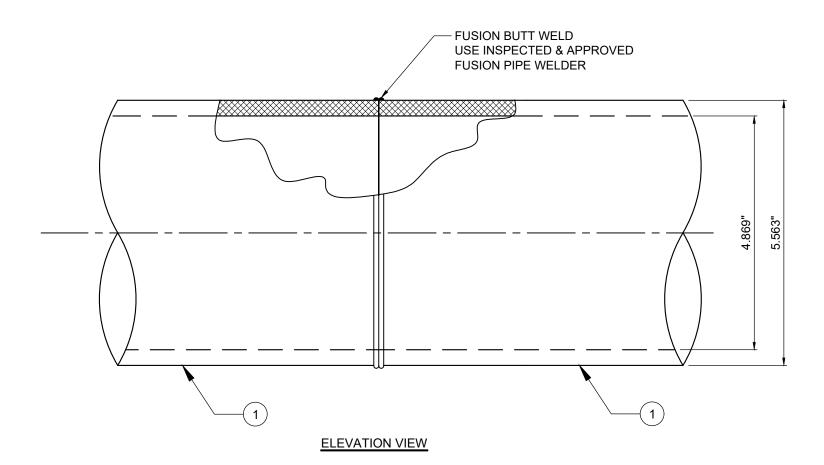
FOLLOW COUPLER MANUFACTURER'S INSTALLATION INSTRUCTIONS

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SYSTEM DRAWING		TITLE:	ELECTROFUSION COUPLER CONNECTION
ROJECT NO: SYSTI	EM	SCA	LE: NTS

A316

26FEB20 DATE



ITEM	QTY	DESCRIPTION	MATERIAL
1	2	5" HDPE PIPE DR-17	ASTM D3035

- NOTES:
 1. HDPE 5" IPS/DR-17 MEETS FDOT 960 SPEC.
 2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

SYSTEM DRAWING PROJECT NO: SHEET NO:

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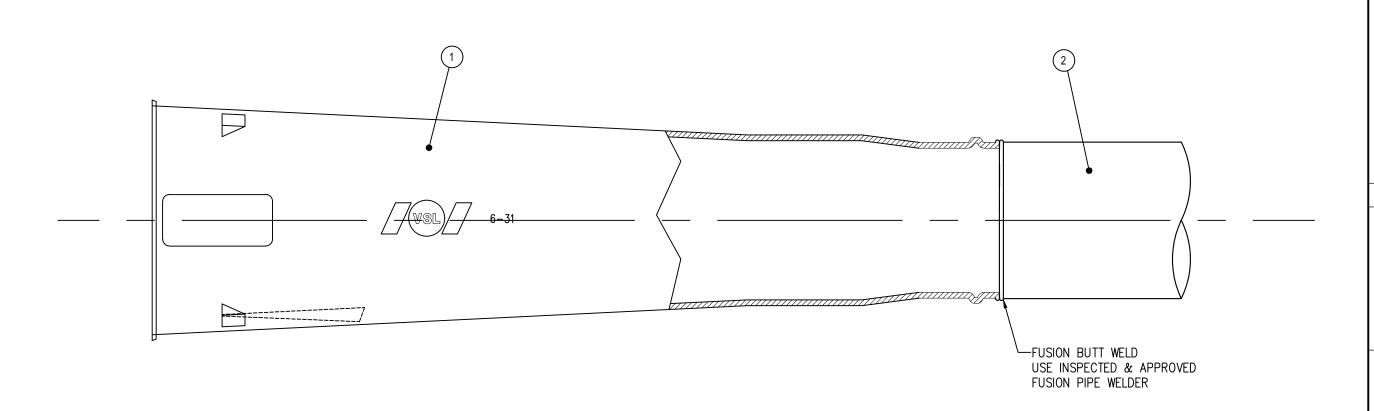
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TYPICAL 5" HDPE PIPE TO 5" HDPE PIPE FUSION WELDED CONNECTION

SCALE: NTS

A287

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TRUMPET TO HDPE PIPE ASSEMBLY

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
2	_	5" HDPE PIPE	HDPE	_
1	1	NCS 6-31 TRUMPET	HDPE	02BP4436

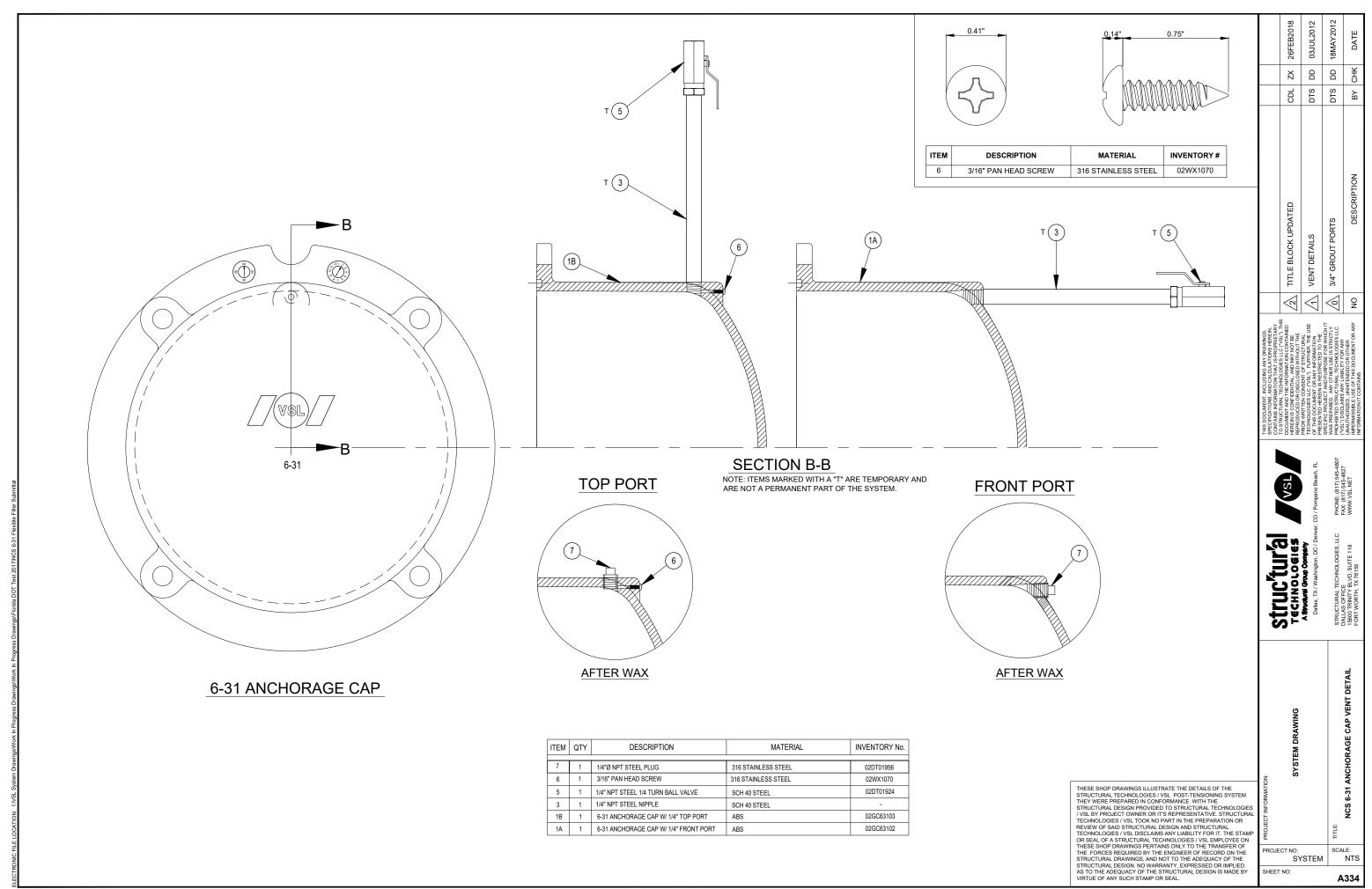
NOTES:
1. HDPE 5" IPS/DR-17 MEETS FDOT 960 SPEC.
2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

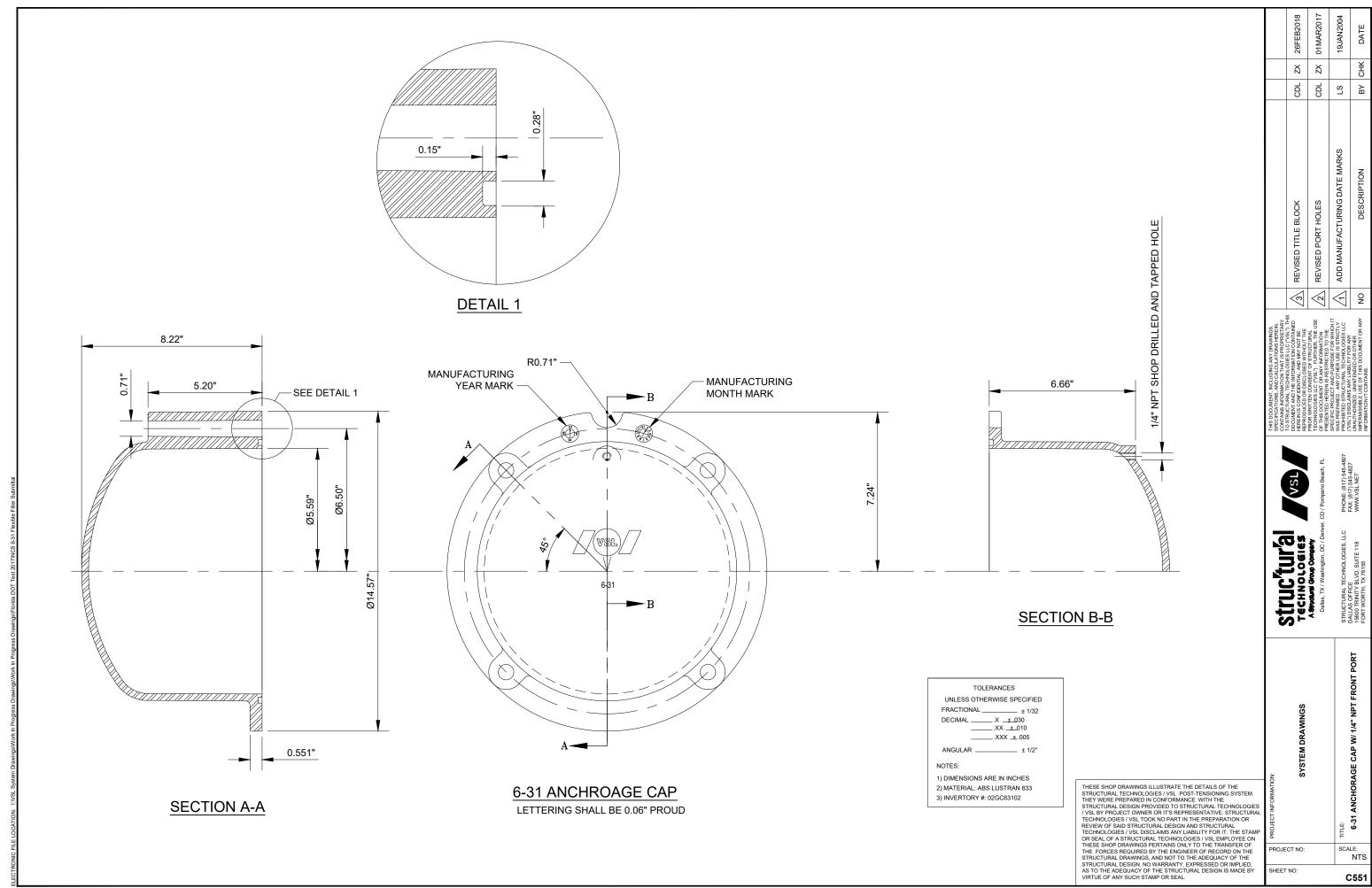
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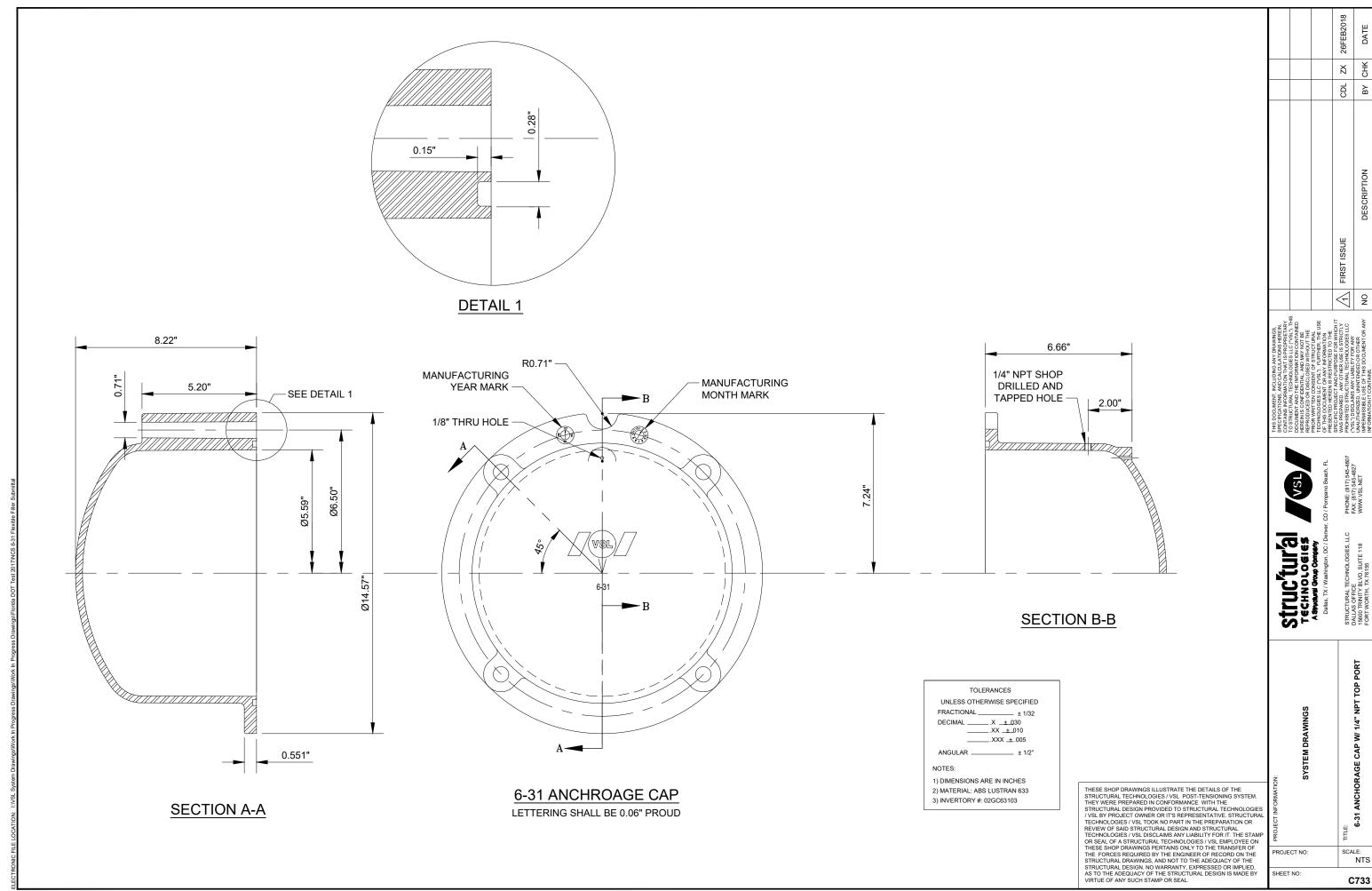
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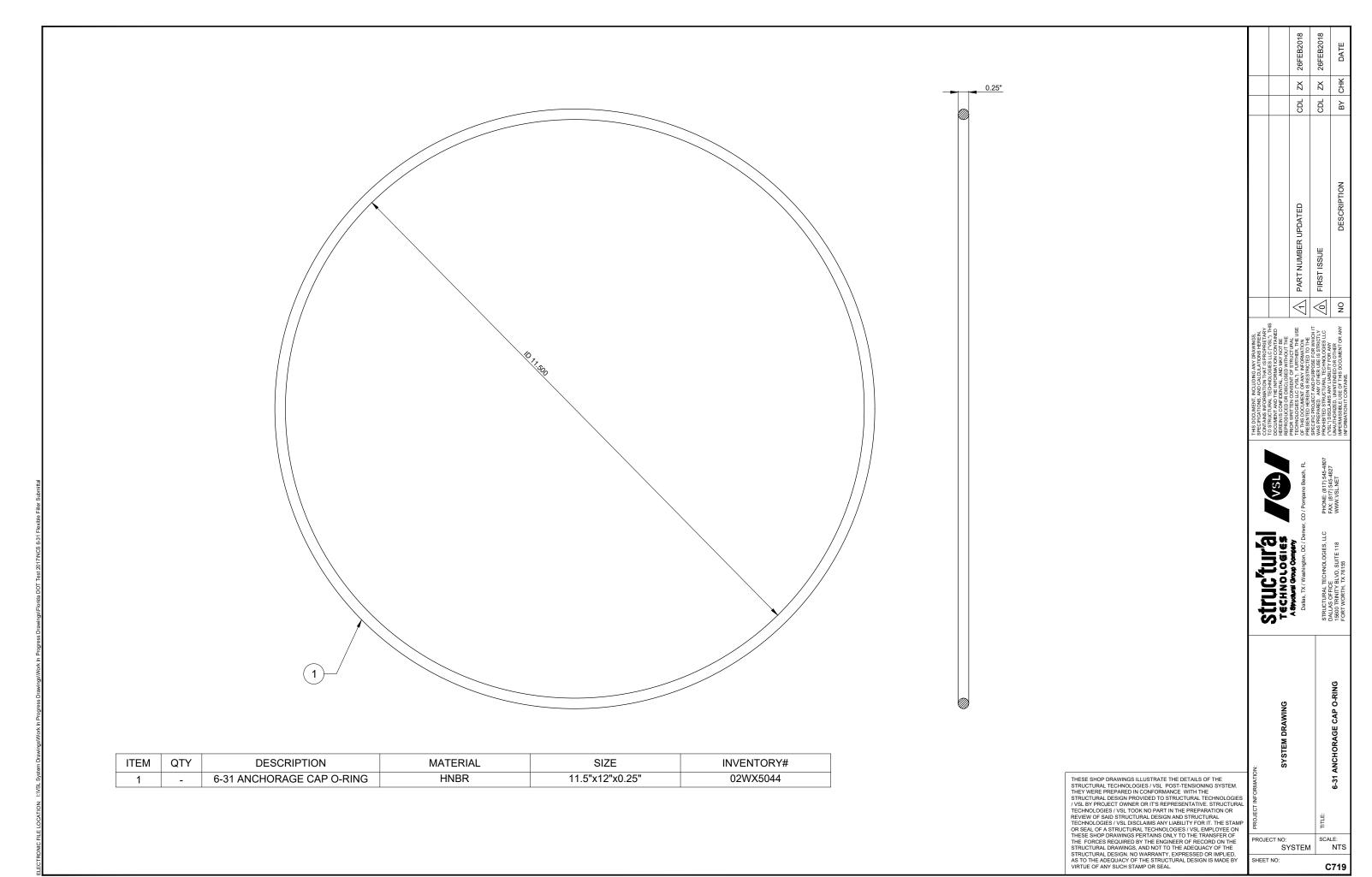
PROJECT NO: SYSTEM SCALE: NTS SHEET NO:

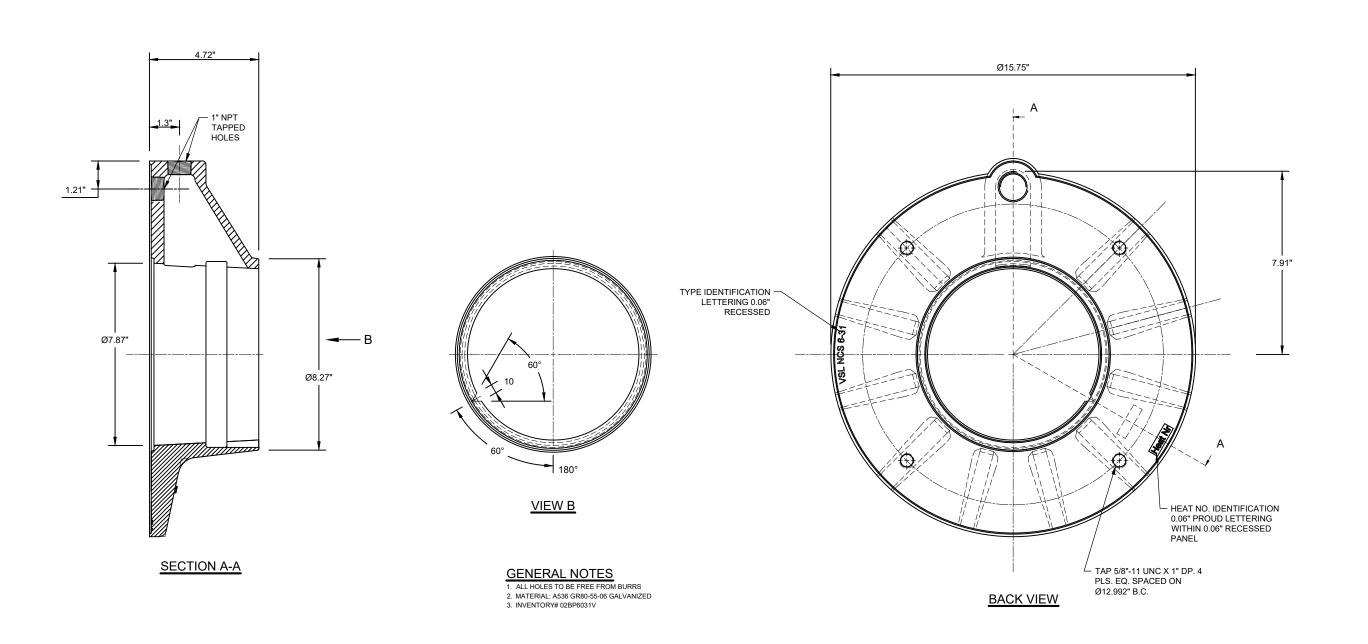
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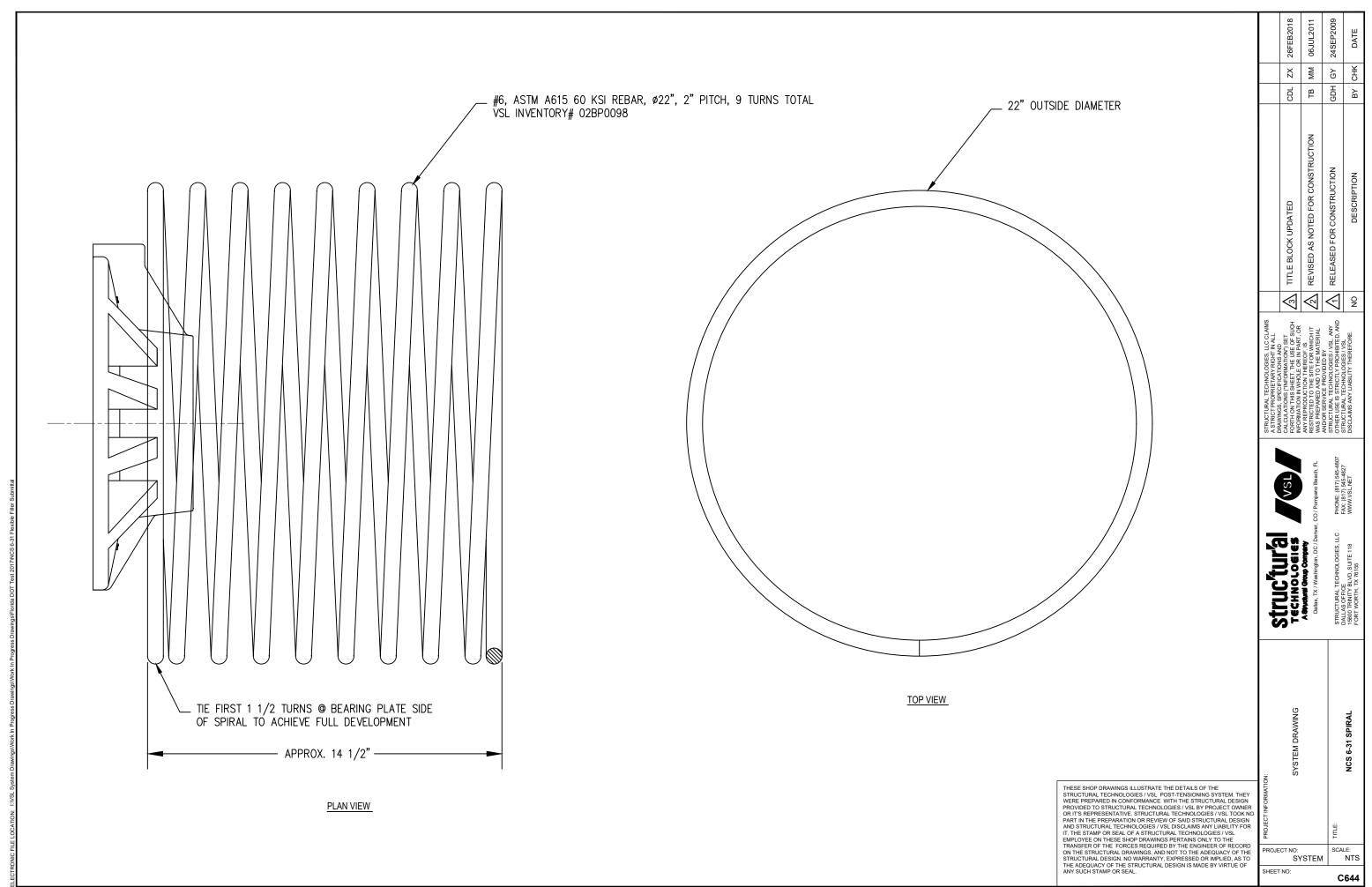
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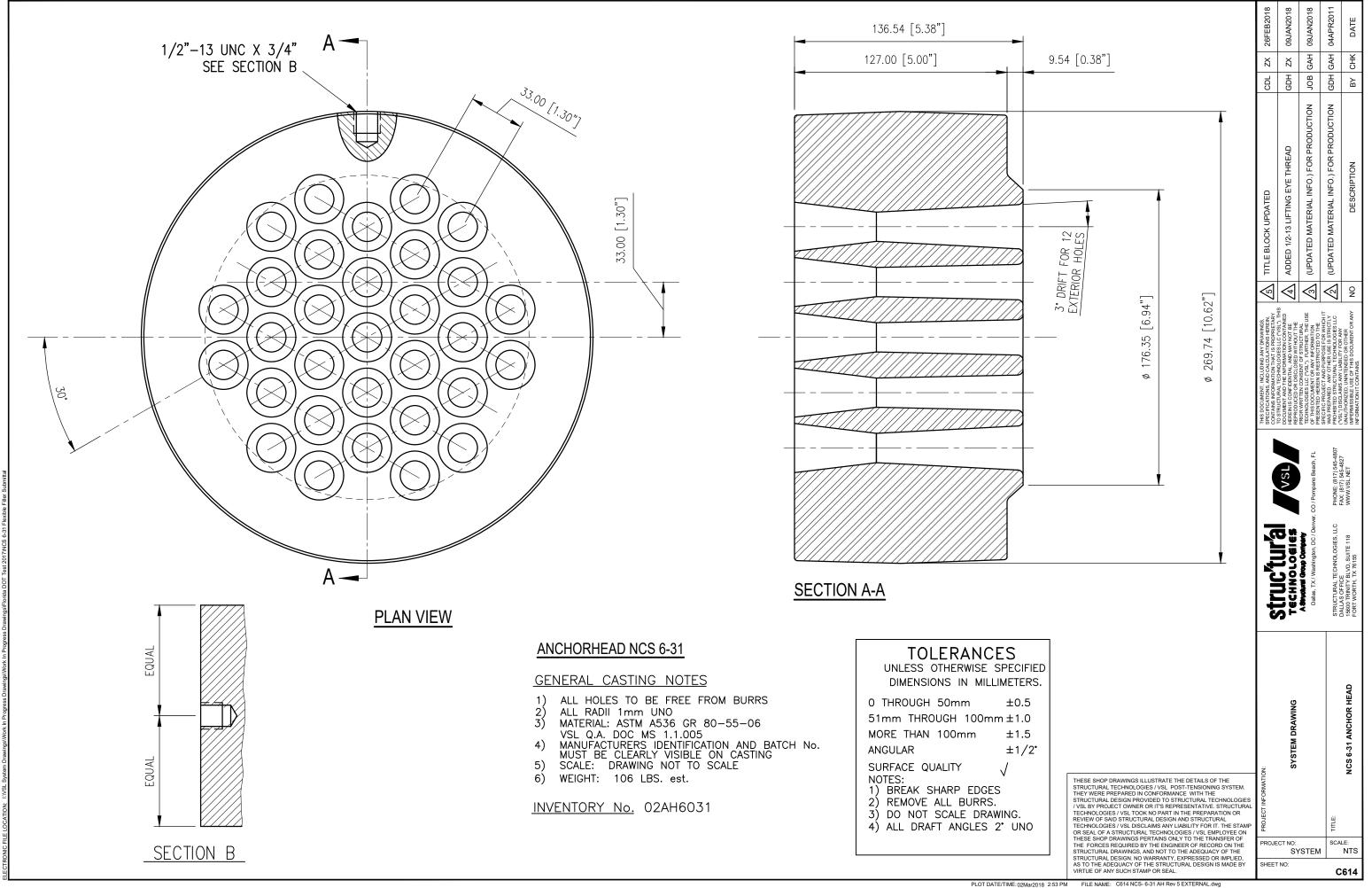
PROJECT INFORMATION:
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TITLE:
NCS 6-31 BEARING PLATE W/ 1" NPT PORT

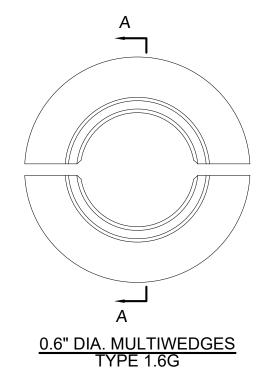
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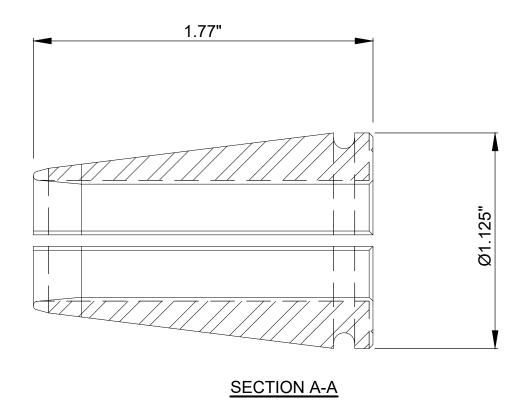
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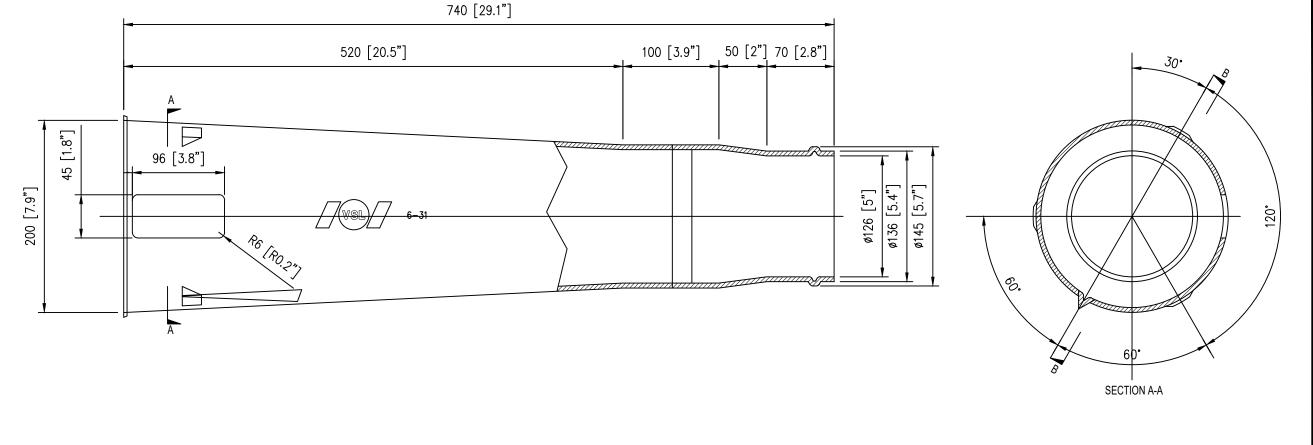
NOTES:

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

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		SPECIFIC PROJECT AND PURPOSE FOR WHICH IT	<				
	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807	WAS PREPARED. ANY OTHER USE IS STRICTLY PROHIBITED STRUCTURAL TECHNOLOGIES LLC ("ACI ") DISCI AIMS ANY LIABILITY FOR ANY	$\overline{\Diamond}$	ADDED INVENTORY NUMBER	TKW		01JAN19
0.6" MULTIWEDGE TYPE 1.6G	D, SUITE 118 76155	UNAUTHORIZED. UNINTENDED OR OTHER IMPERMISSIBLE USE OF THIS DOCUMENT OR ANY INFORMATION IT CONTAINS.	ON	DESCRIPTION	ВУ	CHK	BY CHK DATE

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UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS.

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51mm THROUGH 100mm

±0.5 MORE THAN 100mm ±1.0

ANGULAR

±1.5 SURFACE QUALITY ±1/2°

NOTES:

1) BREAK SHARP EDGES 2) REMOVE ALL BURRS. 3) DO NOT SCALE DRAWING.

4) ALL RADII 1mm UNO

5) MATERIAL: HDPE

INVENTORY No. 02BP4436

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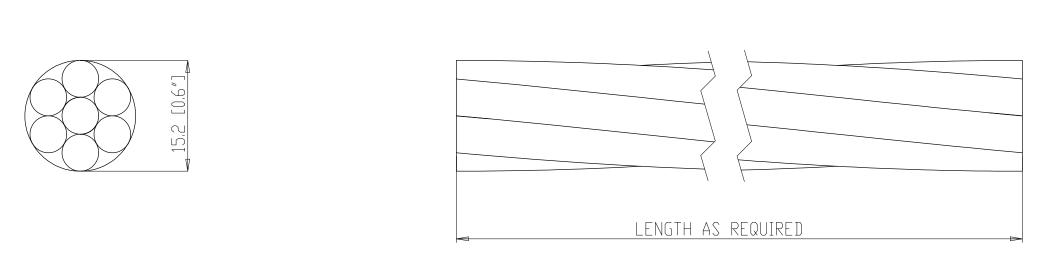
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PROJECT NO: SYSTEM SCALE: NTS SHEET NO: C645

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

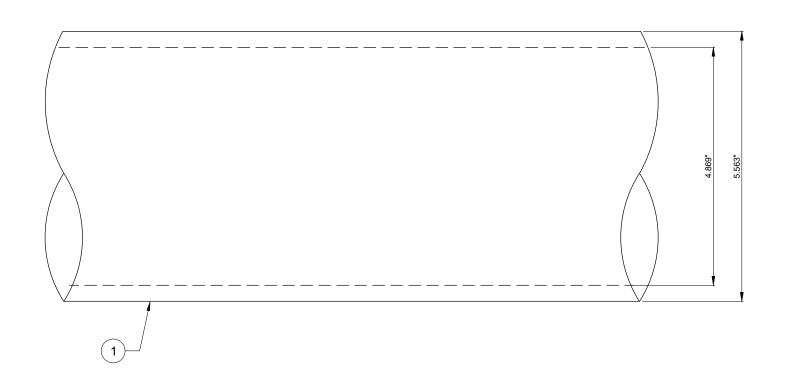
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ITEM	QTY	DESCRIPTION	MATERIAL
1	-	5" HDPE PIPE DR-17	ASTM D3035

NOTE: MINIMUM BEND RADIUS = 30'-0"

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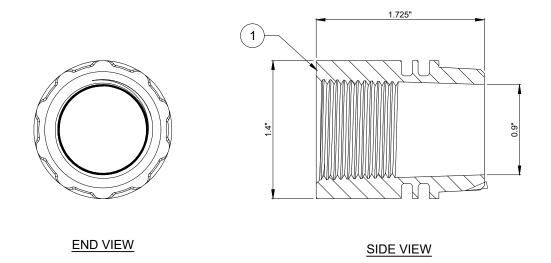
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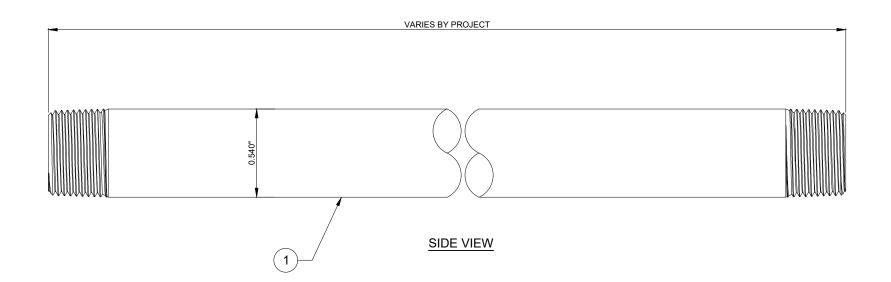
	ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
•	1	-	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253

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DISCLAIMS ANY LIABILITY THEREFORE. PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET

26FEB2018 DATE

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

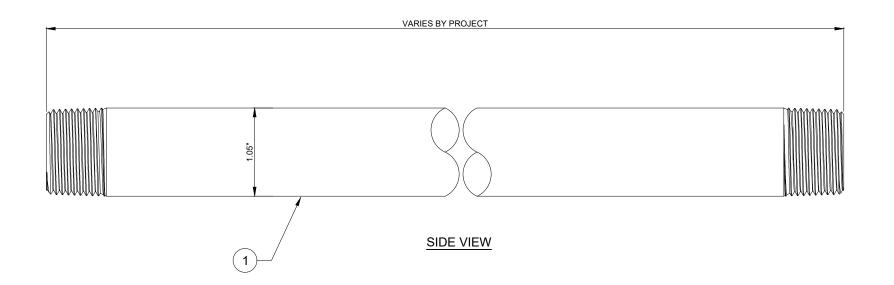
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NPT STEEL NIPPLE 1/4" PROJECT NO: SCALE: NTS SHEET NO: C749



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

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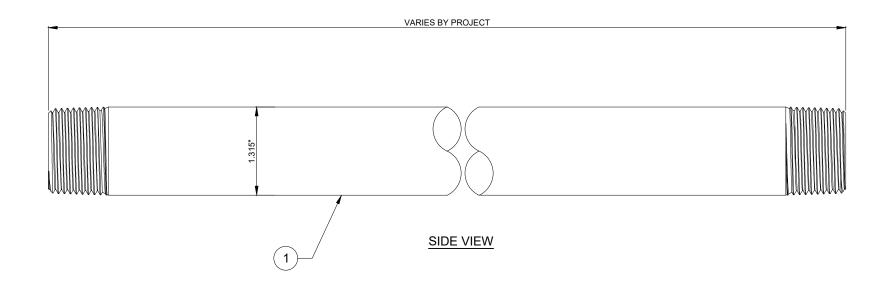
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3/4" NPT STEEL NIPPLE PROJECT NO: SCALE: NTS SHEET NO:



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

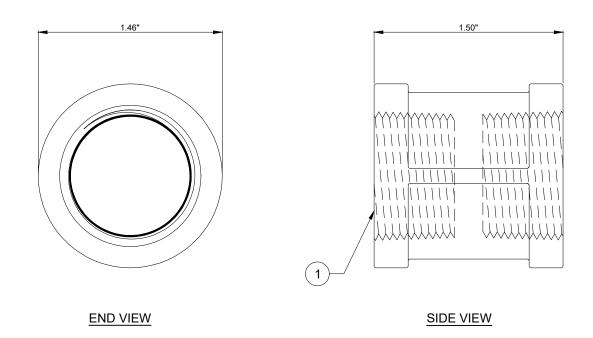
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1" NPT STEEL NIPPLE PROJECT NO: SCALE: NTS



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

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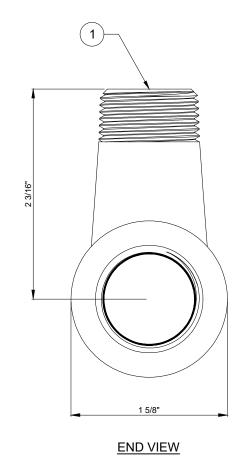
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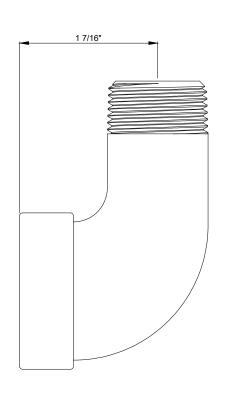
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PROJECT NO:

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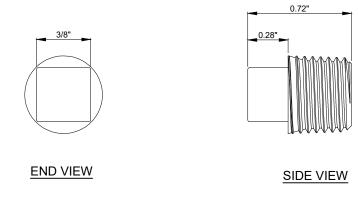
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954

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	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807	AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND	PIRST ISSUE	SUE	CDL	X	CDL ZX 26FEB
PT X MNPT STEEL ELBOW	DALLAS OFFICE FAX: (817) 545-4827 15600 TRINITY BLVD, SUITE 118 WWW.VSL.NET FORT WORTH, TX 76155	STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	ВУ	H.	BY CHK DAT

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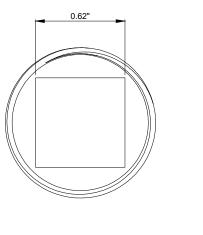
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956

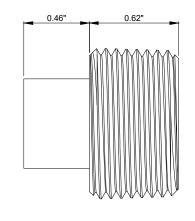
STRUCTURAL TECHNOLOGIES, LLC CLAIMS
ASTROCT PROPERTRAY REPLET IN ALL
DRAWINGS. SPECHICATIONS AND
CALCULATIONS (THE CRIMATION') SET
OFFIT ON THIS SHET. THE USE OF SUCH
INCORMATION IN WHOLE OR IN PART, OR
ANY REPRODUCTION THEREOF, IS
RESTRUCTED TO THE SITE FOR WHICH IT
AND/OR SERVICE PROVINCED BY
STRUCTURAL TECHNOLOGIES / VSL. ANY
OTHER USE IS STRACTLY PROHIBITED. AND
STRUCTURAL TECHNOLOGIES / VSL. ANY
OTHER USE IS STRACTLY PROHIBITED. AND
STRUCTURAL TECHNOLOGIES / VSL. ANY
OTHER USE IS STRACTLY PROHIBITED. AND
STRUCTURAL TECHNOLOGIES / VSL. ANY
OTHER USE IS STRACTLY PROHIBITED. AND
STRUCTURAL TECHNOLOGIES / VSL.
DISCLAIMS ANY LIBBILITY THEREFORE. PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET 1/4" NPT STEEL PLUG SCALE: PROJECT NO: NTS SHEET NO: C747

26FEB2018 DATE

CDL ZX

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL. BY PROJECT OWNER OR IT'S REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL. TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. EMPLOYEE ON THESE SHOP DRAWINGS, PETTAINS 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. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO ANY SUCH STAMP OR SEAL.





END VIEW

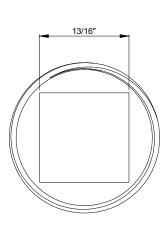
SIDE VIEW

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

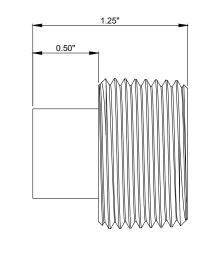
THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL POOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESSES HOP DRAWINGS PRETAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON 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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SYSTEM DRAWING	TECHNOLOGIES	CALCULATIONS AND CALCULATIONS AND INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART. OR					
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	Dallas, TX / Washington, DC / Derver, CO / Pompano Beach, FL	KESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL					
		AND/OR SERVICE PROVIDED BY	_				
ú	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807	STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRUCTLY PROHIBITED, AND		FIRST ISSUE	CDL	X	CDL ZX 26FEB2
3/4" NPT STEEL PLUG	D, SUITE 118 76155	DISCLAIMS ANY LIABILITY THEREFORE.	9	DESCRIPTION	ВУ СНК	OHK.	DATE

SCALE: NTS



END VIEW



SIDE VIEW

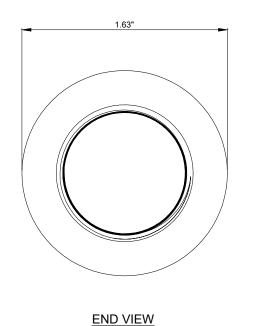
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958

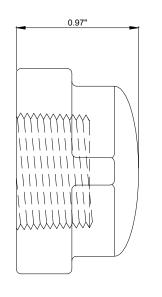
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		(VSL))	ar, CO / Pompano Beach, FL		PHONE: (817) 545-4807	FAX: (817) 545-4827 WWW.VSL.NET	
	etriic/tiir/a	TO T	A Structural Group Company	Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		STRUCTURAL TECHNOLOGIES, LLC	DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH. TX 76155	
	JRMATION:	SYSTEM DRAWING					1" NPT STEEL PLUG	
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THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOTTO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO ANY SUCH STAMP OR SEAL.



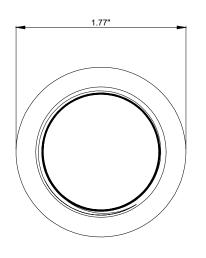


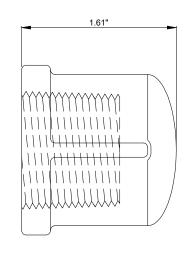
SIDE VIEW

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

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S REPRESSENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL DESIGN NO NOT NOT THE A DEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

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		Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL	WAS PREPARED AND TO THE MATERIAL					
_	TITLE:	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807 PAN. 1A5 OPERIOR 1000	AND/OK SEKVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STBLICTLIED, AND	0	FIRST ISSUE	CDL 3	ZX	CDL X 26FEB20
	3/4" NPT STEEL CAP	/D, SUITE 118 76155	DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	ВУ СНК	-X	DATE





END VIEW

SIDE VIEW

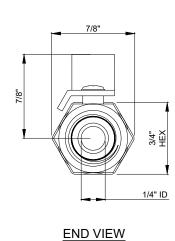
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951

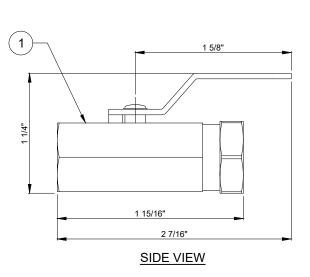
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26FEB2018 DATE

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THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL. BY PROJECT OWNER OR IT'S REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL. TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. EMPLOYEE ON THESE SHOP DRAWINGS, PETTAINS 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. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO ANY SUCH STAMP OR SEAL.





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

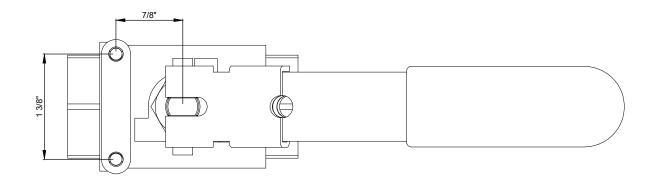
26FEB2018 DATE X CDL ON ON STRUCTURAL TECHNOLOGIES, ILC CLAIMS
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DRAWNINGS, SPECIFICATIONS AND
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FORTH ON THIS SHEET. THE USE OF SUCH
HOTORATION WHOLE OR IN PART, OR
ANY REPRODUCTION THEREOF, IS
AND RESTRICTED TO THE SITE OF WHICH IT
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STRUCTURAL TECHNOLOGIES IVE, ANY
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STRUCTURAL TECHNOLOGIES IVE, ANY
STRUCTURAL TECHNOLOGIES IVE
STRUCTURAL TECHNOLOGIES PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET 1/4" F/F NPT 1/4 TURN BALL VALVE

SCALE:

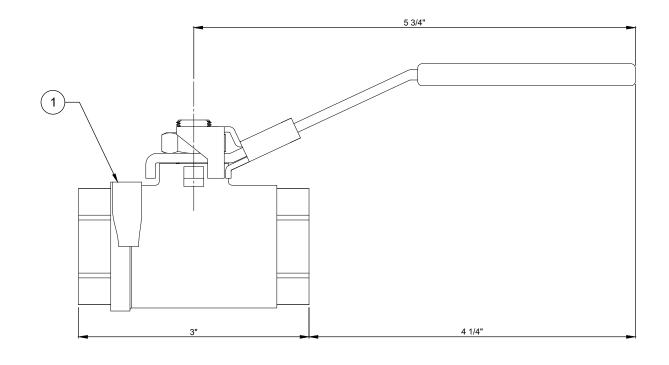
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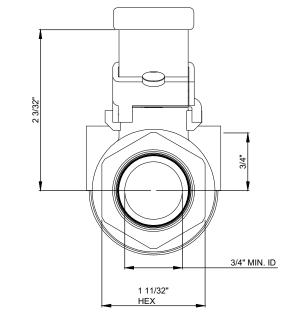
C744

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



TOP VIEW





SIDE VIEW

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

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

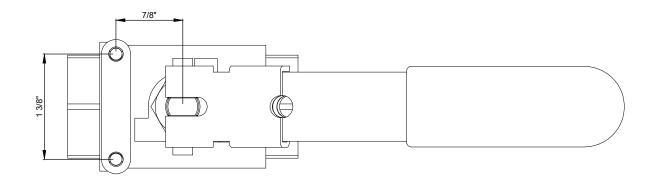
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		DPAWINGS SPECIFICATIONS AND					
SYSTEM DRAWING	TECHNOLOGIES	CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH					
	A Smotural Group Company	ANY REPRODUCTION THEREOF, IS					
	Dallas, TX / Washington, DC / Deriver, CO / Pompano Beach, FL	RESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL					
		AND/OR SERVICE PROVIDED BY	<				
	HNOLOGIES, LLC	STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND	Ē	FIRST ISSUE	СБГ	X	CDL ZX 26FEB2018
/4" NPT STEEL 1/4 TURN BALL VALVE	DALLOO OFFICE 16600 TRINITY BLVD, SUITE 118 WWW,VSL.NET FORT WORTH, TX 76155	STRUCTURAL LECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	BY	ВУ СНК	DATE

PROJECT NO:

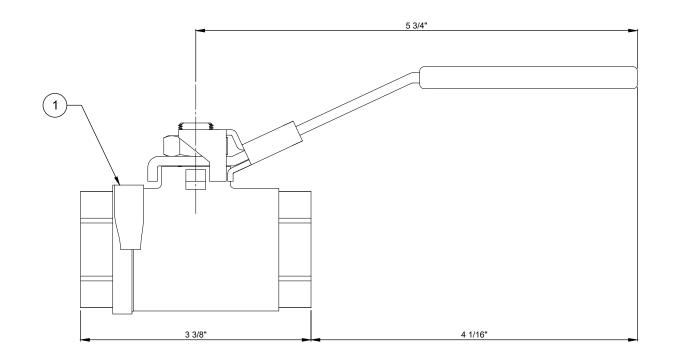
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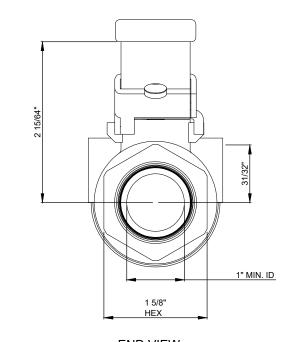
SCALE: NTS

C745



TOP VIEW





SIDE VIEW

END VIEW

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

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO 5 TRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NO TO TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. STRUCTURAL DESIGN.

	TINDET STEEL 1/4 TURN BALL VALVE STRUCTURAL TECHNOLOGIES, LC PHONE: (817) 545-4827 FORK OFFICIE TORK OFFI T
STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807 PAX: (817) 545-4807 PAX: (817) 545-4827 PAX: (817) 545-	

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SCALE: NTS

C746

26FEB2018 DATE