

- INSTALLATION PROCEDURE**
- PREASSEMBLE THE MULTI-PLANE ANCHOR, SPIRAL AND PE TRUMPET. GREASE THE BOLTS TO FACILITATE REMOVAL LATER.
 - BOLT THE MULTI-PLANE ANCHOR (MPA) WITH PE TRUMPET TO THE POCKET FORMER (BY OTHERS) USING SOME OF THE SIX THREADED HOLES IN MPA. THE MPA SHOULD BE ORIENTED SUCH THE GROUT HOLE POINTS UP. THE SPIRAL SHOULD BE ATTACHED TO ADJACENT REBARs AND ROTATED SUCH THAT IT WON'T INTERFERE WITH 3/4" NPT PIPE ATTACHMENT (IF USING TOP GROUT HOLE IN MPA). ALIGN AXIS OF SPIRAL WITH ANCHOR. SEAL UNUSED PORT IN MPA AS SHOWN. INSERT 4.5" LONG PIPE NIPPLE, 3/4" NPT CAP WITH FOAM INSULATION IF TOP GROUT ACCESS IS USED.
 - INSTALL THE DUCT SYSTEM AS SHOWN ON SHOP DRAWINGS. INSERT DUCT WITH SPACER AND SEAL INTO TRUMPET. USE HEAT SHRINK SLEEVES AS SHOWN PER MANUFACTURER'S INSTRUCTIONS. SECURE PLASTIC DUCT PROFILE EVERY TWO FEET.
 - FOR NOT ACCESSIBLE ANCHOR WITH TOP GROUT ACCESS PLACE 2" Ø BLOCKOUT FOR GROUT CAP VENT AT LOCATION SHOWN, AND FIX AGAINST BLOCKOUT.
 - INSTALL SEGMENTAL COUPLER PER INSTRUCTION SHEET SC 68 12 001, WHICH INCLUDES PART NUMBERS.
- CONCRETING CAN NOW PROCEED**
- AFTER COMPLETION OF CONCRETE PLACEMENT, PROVE THAT THE DUCTS ARE CLEAR OF ANY OBSTRUCTIONS OR DAMAGE. PASS A TORPEDO THROUGH THE DUCT TO DEMONSTRATE.
 - PROVE THAT ALL GROUT VENTS ARE FREE AND SECURED. INSTALL COUPLER GASKETS PER INSTRUCTION SHEET SC 68 12 001. SEGMENT ERECTION CAN NOW PROCEED USING FIELD INSTALLATION PROCEDURES FOR SEGMENTAL COUPLER PER INSTRUCTION SHEET SC 68 12 001.
 - INSTALL STRANDS BY PUSHING OR PULLING INDIVIDUALLY OR AS A BUNDLE INTO DUCTS. ALLOW SUFFICIENT TAIL LENGTH FOR STRESSING.
 - CHECK THE WEDGE PLATE FOR RUST, DIRT AND GRIT. CLEAN WEDGE HOLES WITH WIRE BRUSH IF NECESSARY. LIGHTLY GREASE OR OIL WEDGE HOLES.
 - CHECK WEDGES FOR RUST, DIRT AND GRIT. DISCARD RUSTY WEDGES. USE ONLY CLEAN WEDGES.
 - INSTALL WEDGE PLATE, SLIP THE WEDGES OVER THE STRANDS AND LOOSELY SEAT IN WEDGE HOLES.
 - DO NOT APPLY POST-TENSIONING FORCES UNTIL THE CONCRETE HAS ATTAINED THE GREATER OF THE MINIMUM COMPRESSIVE STRENGTH SPECIFIED IN THE PLANS OR $f'_{ci} = 4000$ PSI (27.5 MPa).
- STRESSING CAN NOW PROCEED**
- AFTER THE STRESSING OPERATION IS COMPLETED AND THE ELONGATIONS FALL WITHIN $\pm 7\%$, OBTAIN APPROVAL FROM THE ENGINEER TO CUT THE STRAND TAILS.
 - EVALUATE STRESSING OPERATION IF ELONGATIONS FALL OUTSIDE THE 7% LIMIT.
 - INSTALL GROUT CAP WITH O-RING USING SIX BOLTS (DRILL 1/2" HOLE IN GROUT PORT BEING USED).
 - PROCEED WITH ERECTION OF NEXT SEGMENT.
 - CONNECT THE 3/4" GROUT INLET PIPE ASSEMBLY INTO THE FRONT PORT OF THE MPA FOR FRONT GROUT ACCESS OR INTO THE TOP PORT OF THE MPA FOR TOP GROUT ACCESS.
 - THREAD 1/2" NPT PIPE INTO FRONT OR TOP OF THE THREADED PORT PROVIDED IN THE GROUT CAP FOR FRONT OR TOP GROUT ACCESS.
- GROUTING CAN NOW PROCEED**
- AFTER POST GROUTING OPERATIONS AND INSPECTIONS ARE COMPLETED, REMOVE GROUT PORT PIPES AND INSTALL NYLON PLUG.
 - FILL BLOCK-OUT AND HOLES WITH NON-SHRINK GROUT.

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
68 12 248	12-0.6" MULTI-PLANE ANCHOR CASTING GALVANIZED	ASTM A536 GR 65-45-12 DUCTILE IRON HOT DIPPED GALV. TO ASTM A123
68 12 254	12-0.6" STANDARD SPIRAL	ASTM A615, GR. 60, #5, 2-1/4" PITCH 12-7/8" O.D., ~7 TURNS
68 12 143	12-0.6" FORGED WEDGE PLATE	STEEL FORGING, ASTM A-521-76, NORMALIZED, BHN = 180-220
68 00 0536	3-PART WEDGE FOR 0.6" STRAND	AISI-C12L14 HEAT TREATED
68 12 587	12-0.6" PE TRUMPET	POLYETHYLENE
68 12 7230	PLASTIC GROUT CAP WITH O-RING	NYLON 6, 20% GLASS FIBER FILLED
U00220311	3" (76mm) GTI MEDIUM THK CORR. DUCT Rmin = 13.84 FT	POLYPROPYLENE "PPEX3" CORRUGATED DUCT
(BY OTHERS)	FOAM INSULATION FOR 1/2" & 3/4" PIPE NIPPLES	--
00 00 875	3/4" PVC PIPE NIPPLE, 12" LONG	PVC SCH 80 GRAY
PLA-90-150-YE	HEAT SHRINK SLEEVE, 6" [150] LONG	Acc. to FDOT spec. P.T., section 462-4,2,6,3
PLA-90-225-YE	HEAT SHRINK SLEEVE, 9" [225] LONG	Acc. to FDOT spec. P.T., section 462-4,2,6,3
U00220340	3" (76mm) DUCT COUPLER	POLYETHYLENE

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
68 12 584	NEOPRENE SEAL	CLOSED CELL NEOPRENE BLEND
00 00 675	1/2" PVC PIPE NIPPLE, 12" LONG	PVC SCH 80 GRAY
00 00 834	3/4" NPT VALVE	PVC
00 00 634	1/2" NPT VALVE	PVC
00 00 847	3/4" BT PLUG (NIAGARA PLASTICS #BT0750)	NYLON
00 00 647	1/2" BT PLUG (NIAGARA PLASTICS #BT0500)	NYLON
68 12 582	SPACER (3" DR21) OD=3.96" ID=3.582"	POLYPIPE EHMW DIPS PIPE OR EQUIV.
00 00 771	3/8"-16UNC HEX BOLTS 2-3/4" LG	316L STAINLESS STEEL
00 00 774	NARROW WASHER FOR 3/8"-16UNC	
00 00 801	(OPTIONAL) 21mm GROUT TUBE	HARD POLYETHYLENE
00 00 855 OR 00 00 857 (OPTIONAL)	3/4" NPT GROUT VENT PORT 21mm GROUT VENT PORT (FOR INTERMEDIATE GROUT VENT)	PES-TEC PART NUMBER 254-2 PES-TEC PART NUMBER 251-2 POLYPROPYLENE
ANS	3/4" PVC PIPE NIPPLE L= 4.5"	PVC SCH 80 GRAY
ANS	3/4" NPT CAP PVC	PVC SCH 80 GRAY

NOTES:

- REQUIRED REINFORCING BARS NOT SHOWN.
- LONG TENDONS MAY REQUIRE TEMPERATURE EXPANSION JOINTS DURING PLACEMENT TO COMPENSATE FOR 1/2% CONTRACTION DUE TO CHANGE IN TEMPERATURE FROM 90° TO 40°.
- DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.

OWNER:

CONTRACTOR:

PROJECT:

INTERNAL 12-0.6" MA WITH 76mm GTI DUCT & SEGMENTAL COUPLER ASSEMBLY DRAWING

DATE: 08-20-08 DWG: G. MALECKI CHK: EA APP: EA

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APPROVED BY FOOT 07-11-08

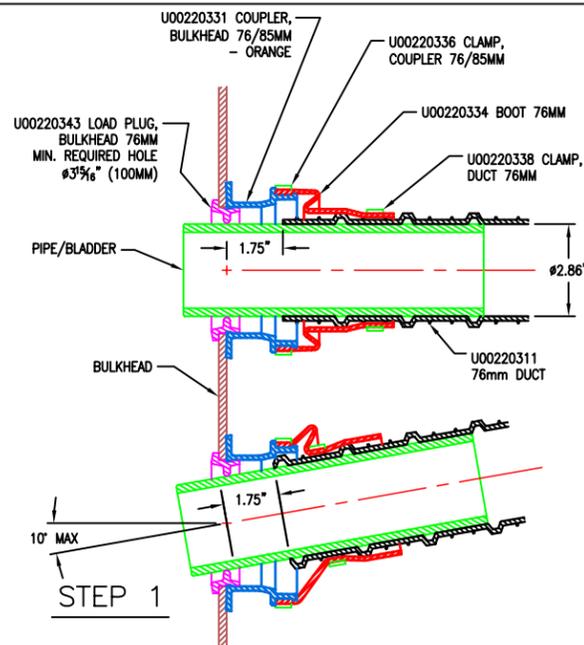
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WEIGHT	REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	JOB NUMBER

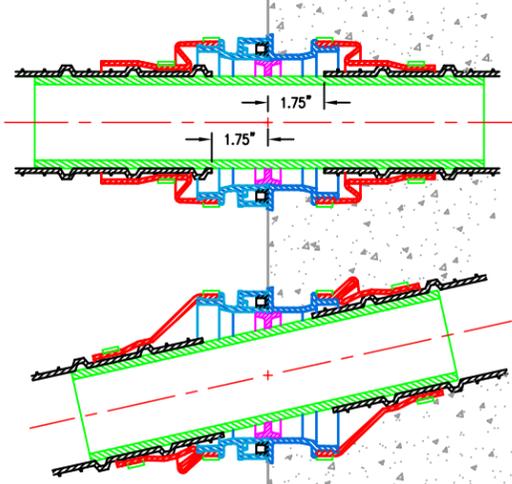
SCALE: 1:5

DRAWING NUMBER: **MA 68 12 015**

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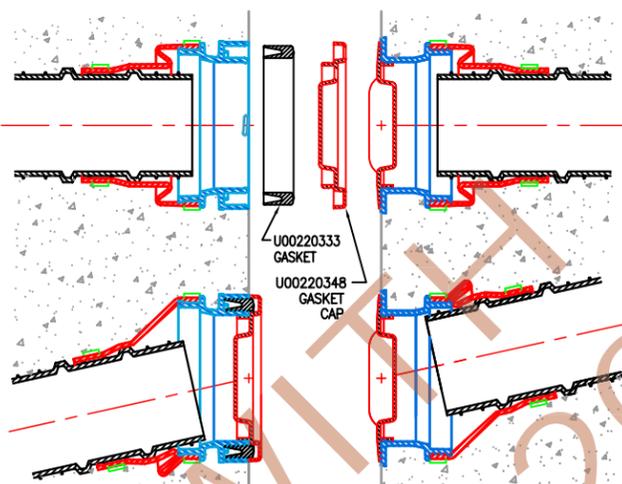


STEP 1



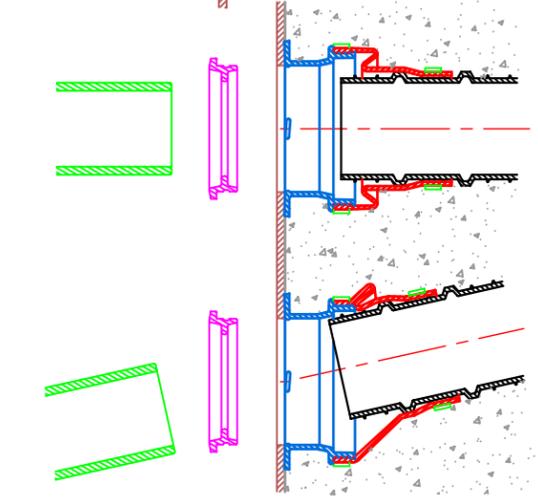
STEP 4

AFTER MATCHCAST ASSEMBLY IS SECURELY ATTACHED TO PRECAST SEGMENT THE TENDONS CAN BE ALIGNED & PIPE/BLADDER INSTALLED



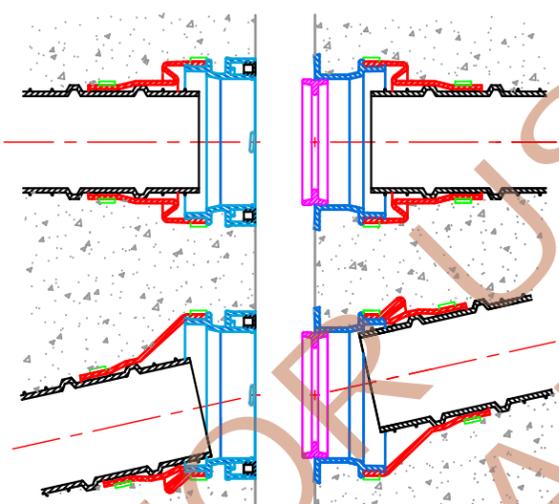
STEP 7

BEFORE EPOXY IS APPLIED INSTALL GASKET INTO MATCHCAST COUPLERS
INSTALL GASKET CAPS AND APPLY EPOXY



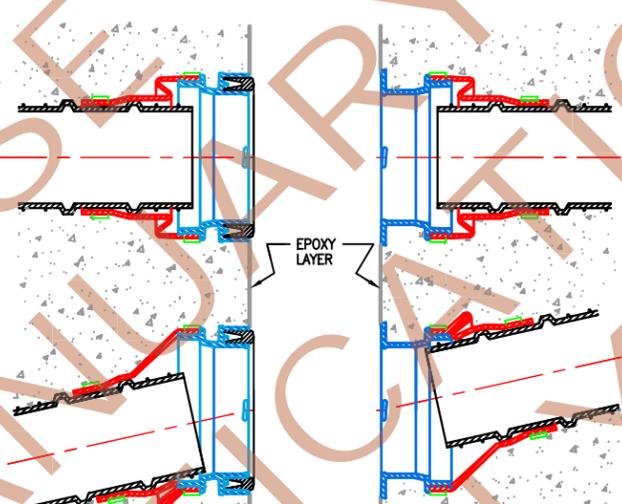
STEP 2

REMOVE ALL PIPE/BLADDER APPARATUS & BULKHEAD LOAD PLUGS BEFORE SEPARATING THE BULKHEAD



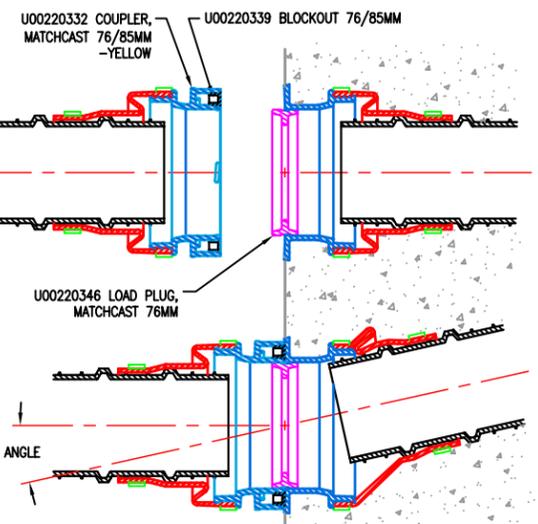
STEP 5

BEFORE SEGMENTS ARE SEPARATED REMOVE ALL PIPE/BLADDER APPARATUS AT SEPARATION MATCHCAST COUPLER WILL RELEASE FROM THE MATCHCAST LOAD PLUG



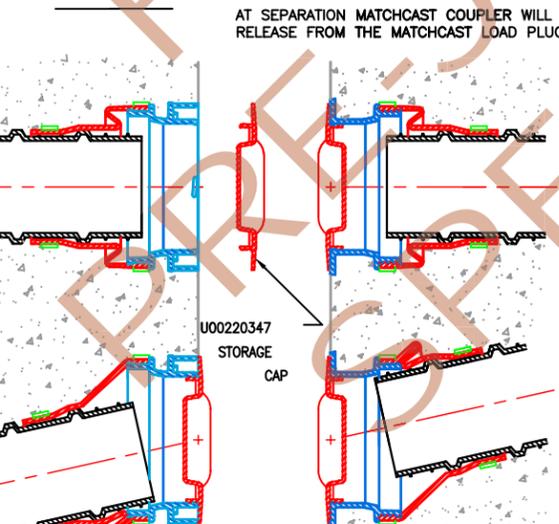
STEP 8

AFTER EPOXY IS APPLIED REMOVE ALL CAPS SEGMENTS ARE READY TO BE ASSEMBLED



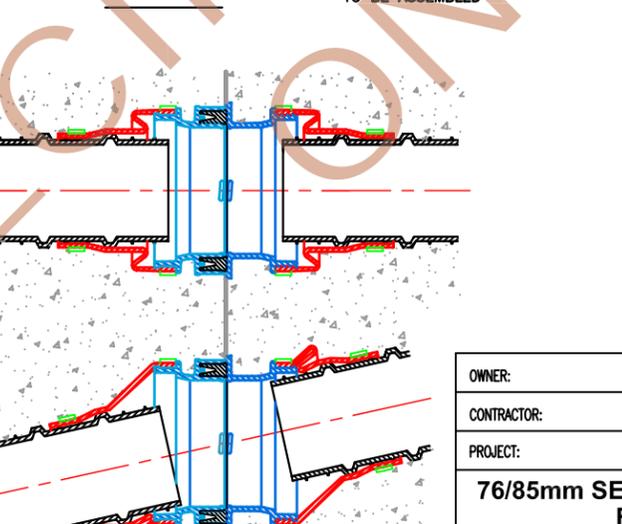
STEP 3

INSTALL MATCHCAST LOAD PLUG INTO PRECAST SEGMENT COUPLER
INSTALL BLOCKOUT INTO MATCHCAST COUPLER
INSTALL MATCHCAST ASSEMBLY ONTO MATCHCAST LOAD PLUG
ATTACH DUCT TO BOOT BEFORE SETTING ANGLE



STEP 6

AFTER SEGMENTS ARE SEPARATED REMOVE ALL MATCHCAST LOAD PLUGS AND INSTALL STORAGE CAPS



STEP 9

ALL GASKETS ARE COMPRESSED JOINT IS SEALED

INSTALLATION PROCEDURES FOR GTI SEGMENTAL COUPLER (BULKHEAD):

- LAYOUT TENDONS ON BULKHEAD FORMS.
- CUT HOLES INTO BULKHEADS OF PROPER DIAMETER FOR SIZE OF THE LOAD PLUG, U00220343, FOR THE BULKHEAD COUPLER, U00220331, (ORANGE IN COLOR).
- ASSEMBLE GTI SEGMENTAL COUPLER ASSEMBLY BY ATTACHING THE BOOT U00220334, TO BULKHEAD COUPLER WITH COUPLER CLAMP U00220336.
- ATTACH GTI SEGMENTAL COUPLER ASSEMBLY TO THE INSIDE OF THE BULKHEAD BY SCREWING ON REUSABLE GTI SEGMENTAL BULKHEAD LOAD PLUG U00220343 FROM THE OUTSIDE. GTI SEGMENTAL COUPLER ASSEMBLY MUST FIT FLUSH TO THE BULKHEAD.
- INSERT 76mm GTI DUCT INTO BOOT U00220334. THE LEADING EDGE OF THE DUCT SHALL NOT EXTEND CLOSER TO THE FACE OF THE COUPLER THAN 1-3/4" (SEE SECTION 4.). SECURE THE DUCT TO THE BOOT USING DUCT CLAMP U00220338. THE CLAMP SHOULD BE INSTALLED IN THE VALLEY BETWEEN THE ENCLOSED CORRUGATIONS. THE LOCATION OF THE CLAMP MAY VARY DEPENDING ON THE SPECIFIC LOCATION OF THE CORRUGATIONS WITHIN THE BOOT.
- INSERT ANY CONTRACTOR REQUIRED PIPE OR BLADDER FIXTURE THROUGH ASSEMBLY AND DUCT AND EXTEND THROUGH BULKHEAD.
- ALIGN DUCT INTO THE PROPER HORIZONTAL OR VERTICAL ANGLE AND FIX DUCT WITH TIE WIRES TO REBAR CAGE.
- AFTER REBAR INSTALLATION IS COMPLETE, VERIFY AND, IF REQUIRED, ADJUST COUPLER ALIGNMENT AND ORIENTATION.

INSTALLATION PROCEDURES FOR GTI SEGMENTAL COUPLER (MATCH-CAST):

- SCREW REUSABLE GTI MATCH CAST LOAD PLUG U00220346 INTO THE BULKHEAD COUPLER U00220331 WHICH HAS BEEN CAST INTO THE MATCH-CAST SEGMENT.
- ASSEMBLE GTI SEGMENTAL COUPLER ASSEMBLY FOR NEW SEGMENT BY INSERTING GTI GASKET BLOCKOUT U00220339, ONTO THE GTI MATCH-CAST COUPLER U00220332 (YELLOW IN COLOR).
- ATTACH GTI SEGMENTAL COUPLER ASSEMBLY FOR NEW SEGMENT BY SCREWING ONTO LONG THREAD REUSABLE GTI MATCH CAST LOAD PLUG U00220346, IN MATCH-CAST SEGMENT. GTI SEGMENTAL MATCH-CAST COUPLER ASSEMBLY FOR NEW SEGMENT MUST FIT FLUSH TO THE GTI SEGMENTAL BULKHEAD ASSEMBLY IN CAST SEGMENT.
- ATTACH GTI BOOT TO THE GTI MATCH-CAST COUPLER FOR THE NEW SEGMENT USING THE COUPLER CLAMP U00220336.
- INSERT GTI DUCT INTO GTI BOOT AND SECURE USING DUCT CLAMP U00220338. THE LEADING EDGE OF THE DUCT SHALL NOT EXTEND CLOSER TO THE FACE OF THE COUPLER THAN 1-3/4", MEASURED AT THE CENTER OF THE DUCT IF ON ANGLE. THE CLAMP SHOULD BE INSTALLED OVER THE BOOT IN THE VALLEY BETWEEN THE ENCLOSED CORRUGATIONS. THE LOCATION OF THE CLAMP MAY VARY DEPENDING ON THE SPECIFIC LOCATION OF THE CORRUGATIONS WITHIN THE BOOT.
- CONFIRM THAT THE BULKHEAD COUPLER ASSEMBLY IS PROPERLY INSTALLED AND THAT ALL CLAMPS ARE FIRMLY ATTACHED AT OPPOSITE END OF THE DUCT.
- AFTER REBAR INSTALLATION IS COMPLETE, VERIFY AND, IF REQUIRED, ADJUST COUPLER ALIGNMENT AND ORIENTATION.
- INSERT ANY CONTRACTOR REQUIRED PIPE OR BLADDER FIXTURE THROUGH ASSEMBLY AND DUCT.

POURING CONCRETE AND STRIPPING OF SEGMENTS:

- AFTER SEGMENT HAS SUFFICIENTLY CURED, VERIFY THE DUCT ALIGNMENT HAS NOT BEEN ALTERED BY CONCRETE PLACEMENT.
- REMOVE ANY PIPE OR BLADDER FIXTURES FROM DUCT.
- REMOVE REUSABLE GTI SEGMENTAL BULKHEAD PLUG BY UNSCREWING FROM GTI SEGMENTAL COUPLER ASSEMBLY FROM OUTSIDE OF THE BULKHEAD.
- AFTER SEPARATING SEGMENTS, RETRIEVE REUSABLE GTI MATCH CAST LOAD PLUG U00220346.

SEGMENT IS READY FOR STORAGE.

- REMOVE GTI GASKET BLOCKOUT AND INSTALL GTI SEGMENTAL COUPLER STORAGE CAPS U00220347 ONTO GTI SEGMENTAL COUPLER ASSEMBLIES OR ALTERNATIVELY THE GASKET STORAGE CAP U00220348 CAN BE INSTALLED IN THE COUPLER ASSEMBLIES.
- MOVE SEGMENT INTO MATCH-CAST POSITION AND SETUP FOR NEXT CASTING OPERATION.

AT CASTING YARD:

- REMOVE THE STORAGE CAPS OR GASKET CAPS FROM ALL MATCH-CAST COUPLERS AND INSPECT THE O-RING CAVITIES AND MAKE SURE THE COUPLER FACES ARE CLEAN AND FREE OF ANY FOREIGN MATERIALS.
- INSERT THE COUPLER GASKET U00220333 INTO THE MATCH-CAST COUPLER AND SECURE WITH THE GASKET CAP U00220348. DO NOT USE OR RE-INSTALL THE STORAGE CAP.
- REMOVE THE STORAGE OR THE GASKET CAP FROM THE BULKHEAD COUPLER AND VERIFY THAT THE EXTERIOR FLANGE SURFACE IS CLEAN, THEN REPLACE THE CAP.

FIELD INSTALLATION PROCEDURES FOR GTI SEGMENTAL COUPLER (SEGMENT PLACEMENT):

- APPLY EPOXY OR ANY OTHER NECESSARY TREATMENTS ONTO THE SURFACES AT THE SEGMENTS.
- REMOVE GASKET AND STORAGE CAPS.
- ALIGN SEGMENTS AND JOIN AS REQUIRED BY PROJECT SPECIFICATIONS.

APPROVED BY FDOT 07-11-08

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPEC.
U00220311	3" (76mm) CORRUGATED PP DUCT	"PPEX3"
U00220331	BULKHEAD COUPLER	POLYPROPYLENE
U00220332	MATCHCAST COUPLER	POLYPROPYLENE
U00220333	GASKET	KRATON
U00220334	76mm BOOT	KRATON
U00220336	CLAMP, COUPLER 76/85mm	STAINLESS STEEL

BILL OF MATERIALS		
PART NUMBER	DESCRIPTION	MATERIAL SPEC.
U00220338	CLAMP, DUCT 76mm	STAINLESS STEEL
U00220339	BLOCKOUT	HDPE
U00220343	BULKHEAD LOAD PLUG	NYLON
U00220346	MATCHCAST LOAD PLUG	NYLON
U00220347	STORAGE CAP	HDPE
U00220348	GASKET CAP	POLYPRO

OWNER:
CONTRACTOR:
PROJECT:
76/85mm SEGMENTAL COUPLER ASSEMBLY FOR 12-0.6" STRANDS
DATE: 08-20-08 | DWG: G. MALECKI | CHK: S.N. | APP: E. A.

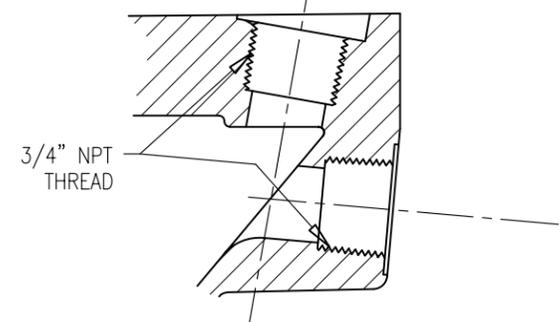
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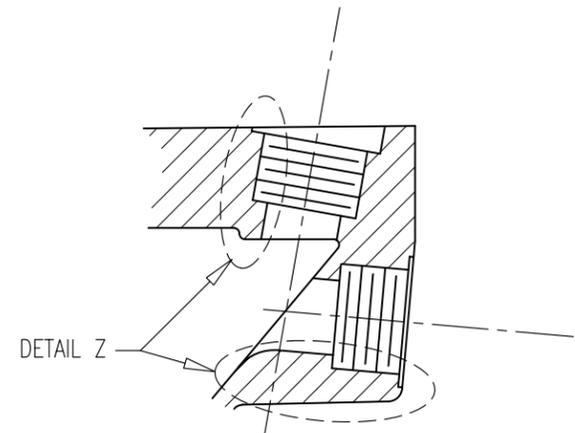
REV.	DATE	ISSUE DESCRIPTION	NAME	CHKD.	JOB NUMBER

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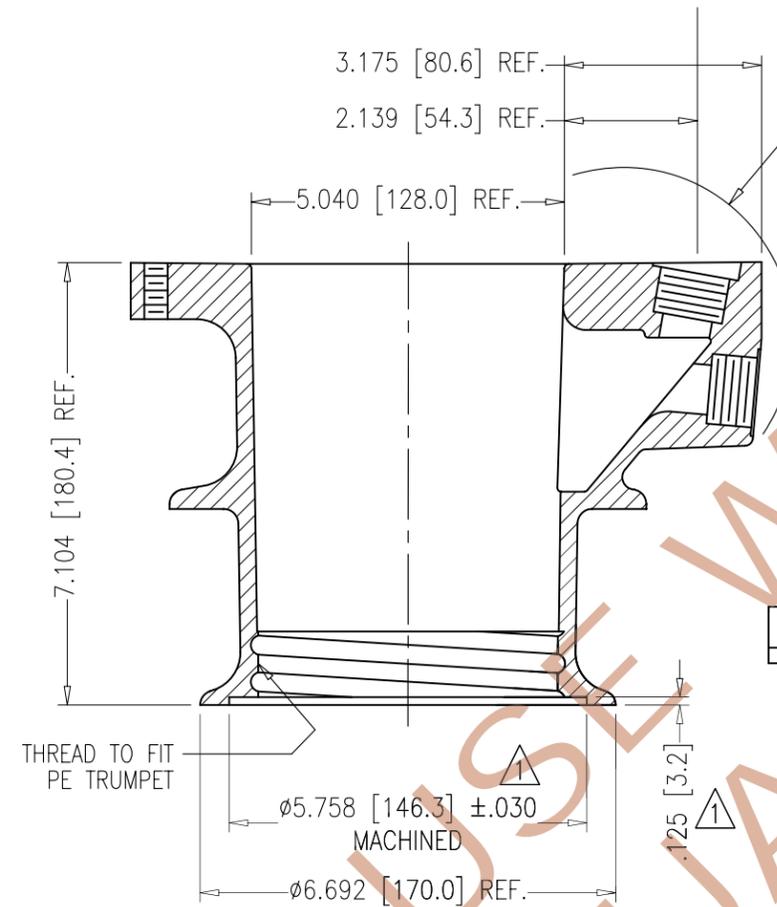
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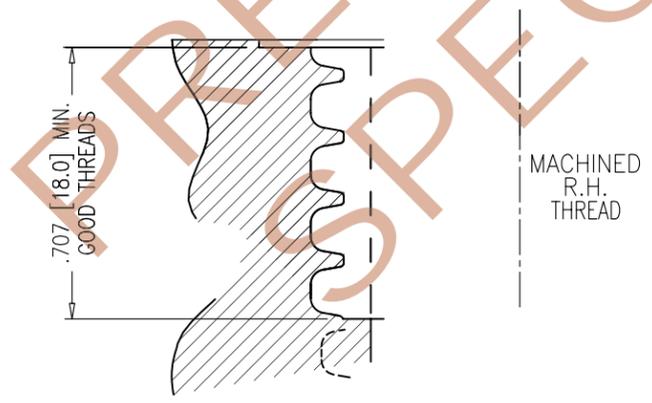
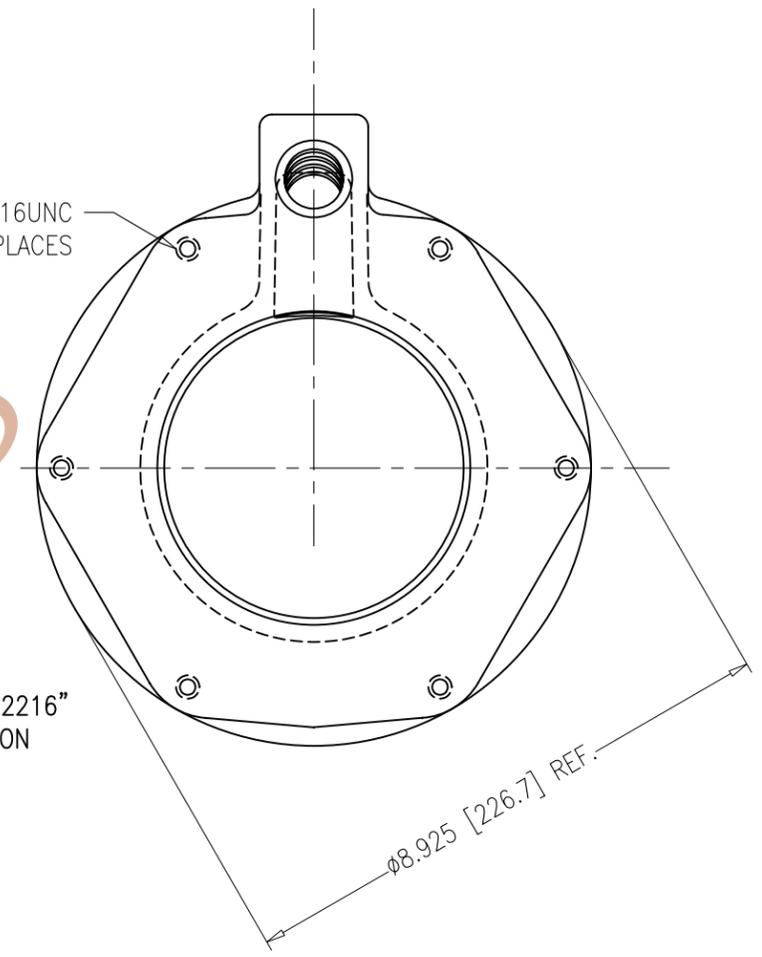
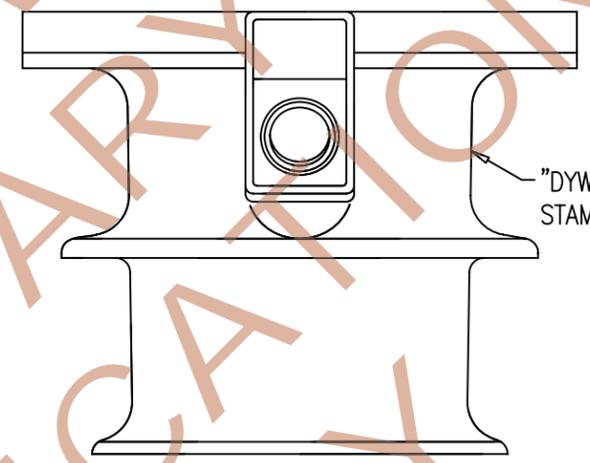
GROUT PORT THREADS
WITH 3/4" NPT THREADS
SCALE 3:2 IN COMPUTER



GROUT PORT THREADS
WITH 21mm THREADS
SCALE 3:2 IN COMPUTER



SECTION A-A
(SHOWN WITH 21mm GROUT PORT THREADS)



DETAIL Z
SCALE 6:1 IN COMPUTER

- NOTES FOR GALVANIZING PARTS:
1. AFTER CASTING IS STRIPPED, GRIND AND TOUCH UP TOP AND BOTTOM SURFACES AS NECESSARY TO ELIMINATE ANY PARTING LINES OR UNEVEN AREAS.
 2. GALVANIZE ACCORDING TO ASTM A123 AND TAKE CARE HOW CASTINGS ARE STORED TO PREVENT RUST.
 3. DRILL & TAP BOLT HOLES AND GROUT PORTS AND MACHINE GROOVE IN BOTTOM OF ANCHOR AND SPRAY THEM WITH ZINC RICH PAINT ACCORDING TO ASTM A780, ENSURE THREADABILITY.

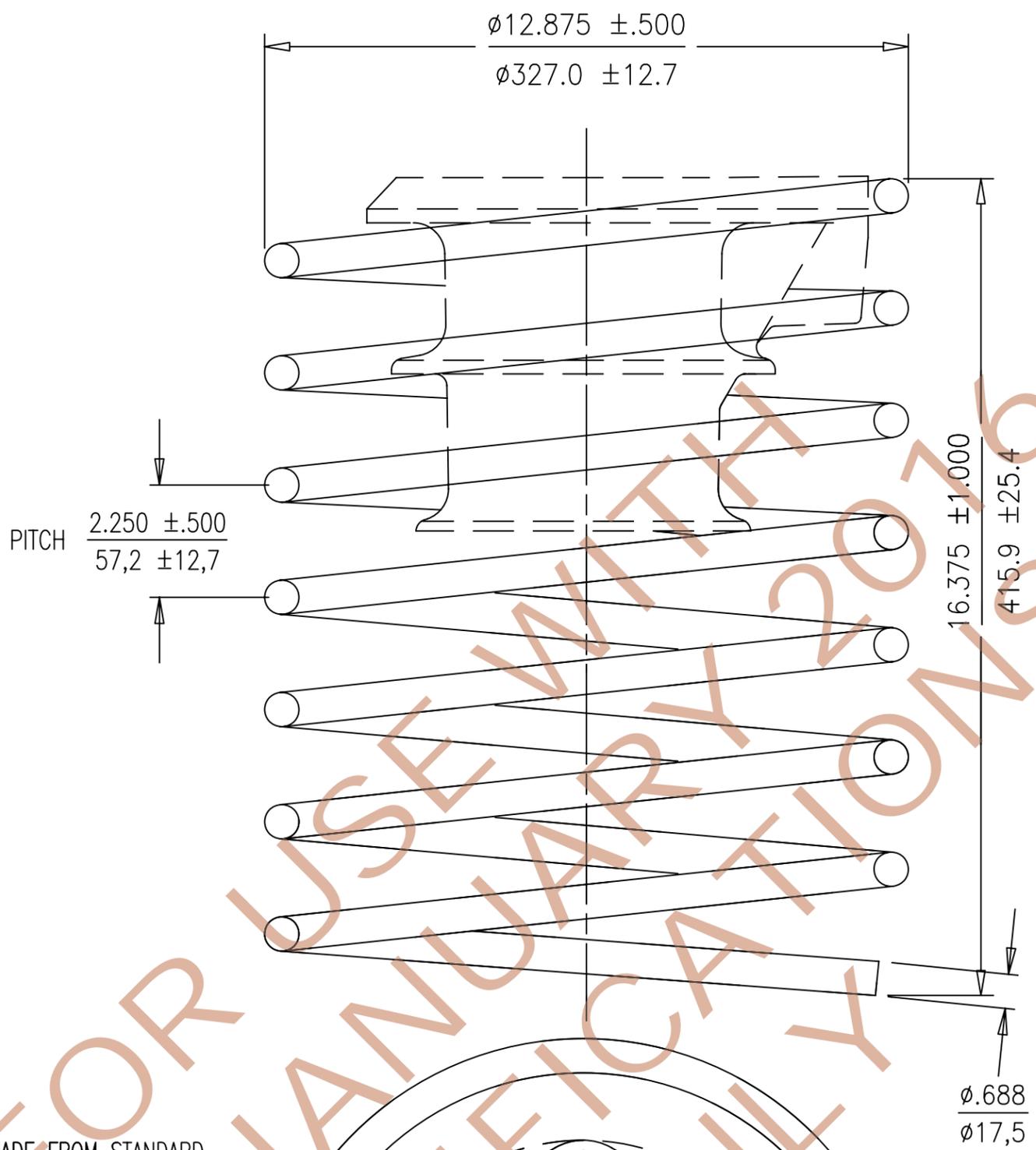
APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH/mm mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60021200C	
12-0.6"/15-0.5" MULTI-PLANE ANCHOR WITH TWO GROUT PORTS			
DATE: 09-14-07	DWG: G. MALECKI	CHK: H.K.	APP: K.S.
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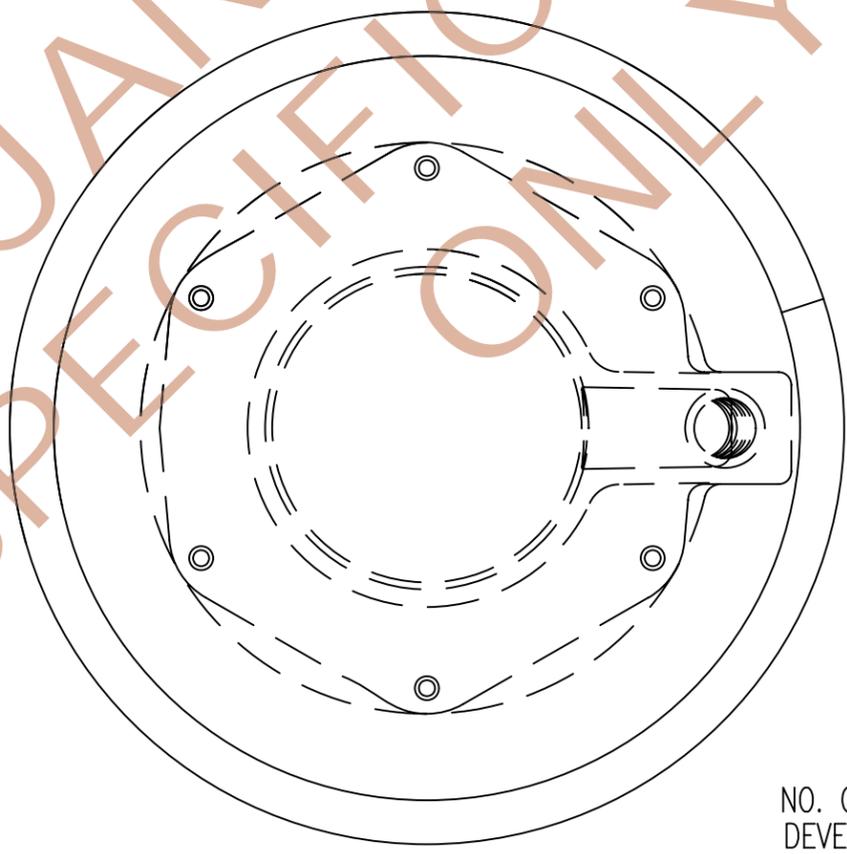
PART NUMBER	DESCRIPTION	GROUT PORT THREADS
68 12 216	UNCOATED	21mm
68 12 238	GALVANIZED	21mm
68 12 246	UNCOATED	3/4" NPT
68 12 248	GALVANIZED	3/4" NPT

SEE 68 12 216 90 FOR RAW CASTING. ALL PARTS HAVE 3/8"-16UNC THREADS ADDED TO RAW CASTING.

TOLERANCES: ±.030 ±2° UNLESS NOTED	WEIGHT 20 LBS.	REV. 1	DATE 02-29-08	NAME E.A.	PART NUMBER: 68 12 216 68 12 238 68 12 246 68 12 248
MATERIAL: SEE MAT'L SPEC. PM0021200C	SCALE 1:3				DRAWING NUMBER: 68 12 216
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					



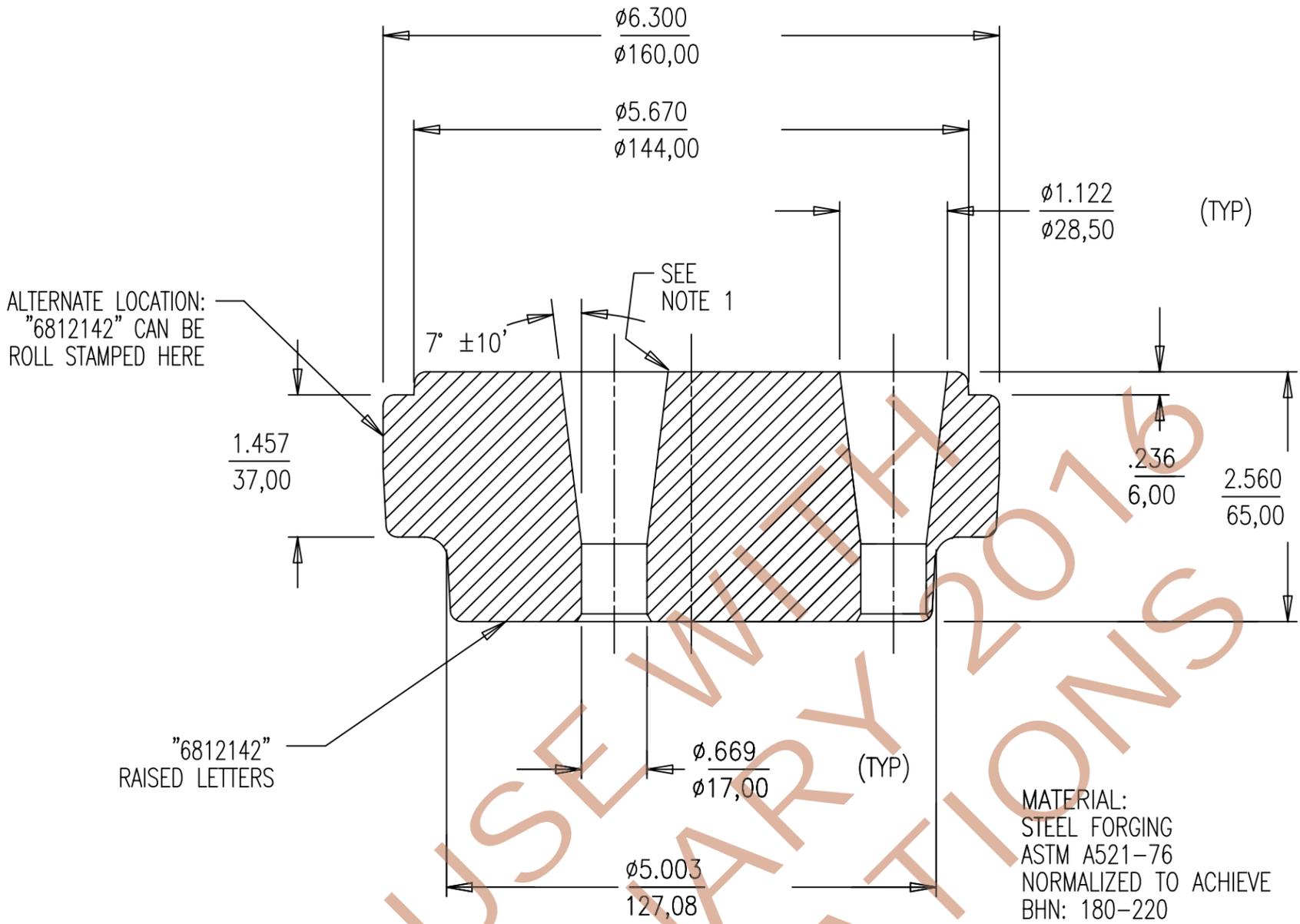
- NOTES:
1. SPIRAL IS MADE FROM STANDARD #5 REBAR, NO PART NUMBER MARKING IS SHOWN.
 2. KEEP SPIRAL AND MPA AXIS ALIGNED, IF USING SIDE PORT, ROTATE SPIRAL TO CLEAR.



NO. OF FULL TURNS: 7
 DEVELOPED LENGTH: 22'-6" ± 1/4 IN.
 WEIGHT: 23.5

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60021400A		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 23.5 LBS.	REV.	DATE	NAME	PART NUMBER: 68 12 254
STANDARD SPIRAL FOR 12-0.6"/15-0.5" MPA				MATERIAL: ASTM A615 SIZE #5, GR 60	SCALE 1:4				DRAWING NUMBER: 68 12 254
				DATE: 09-14-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.		
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MATERIAL:
 STEEL FORGING
 ASTM A521-76
 NORMALIZED TO ACHIEVE
 BHN: 180-220
 MIN. YIELD STRENGTH: 50 KSI
 MIN. ELONG. IN 2": 18%

$3/8"$ -16UNC
 DRILL 1" (25,4) DEEP
 TAP $3/4"$ (19,1) DEEP
 (3) PLACES FOR KEEPER
 PLATE (SEE NOTE 4)

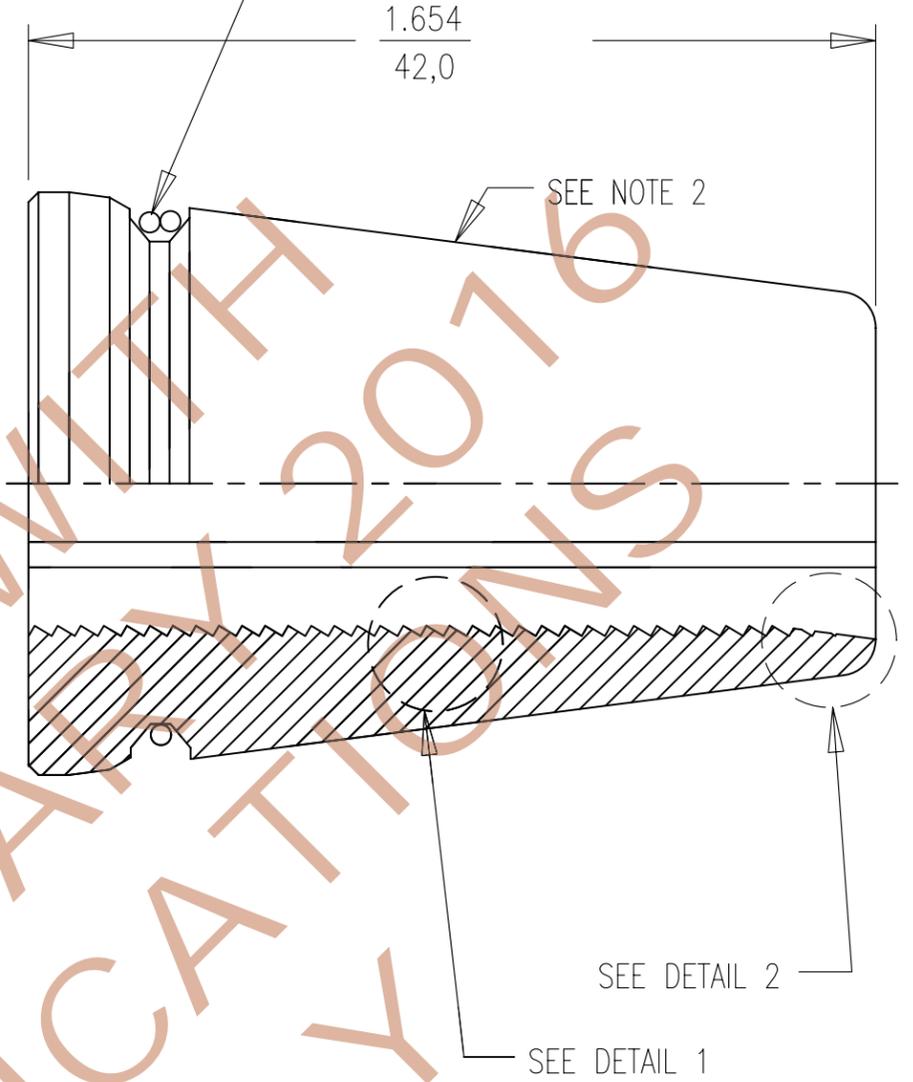
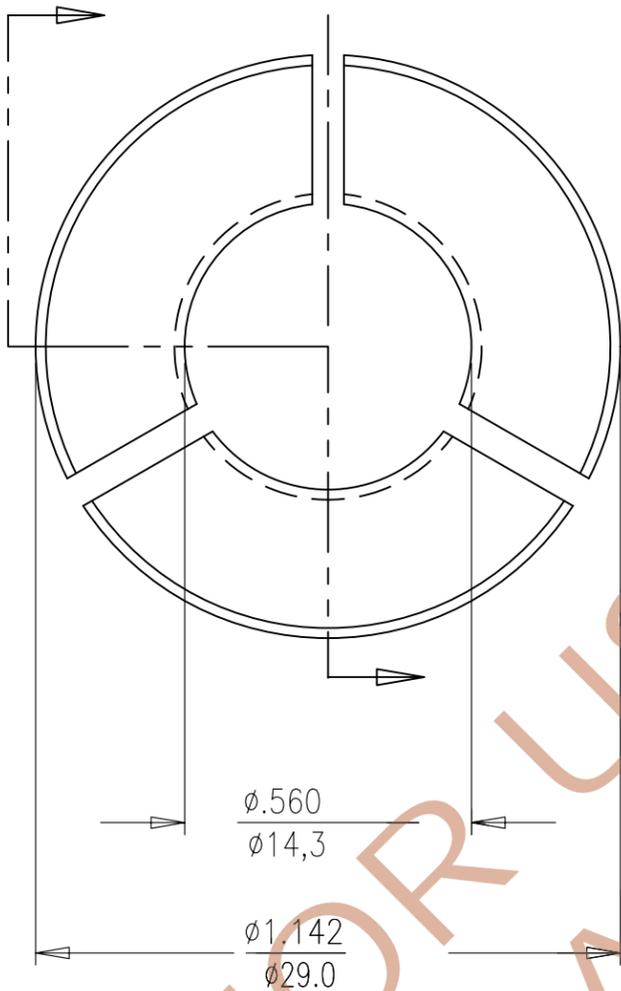
WEDGE PLATE DIPPED
 IN BEL-RAY RP-30 FOR
 CORROSION PROTECTION

- NOTES:
- BREAK EDGES OF WEDGE HOLES.
 - USE 3-PART WEDGE P/N 68 00 0536.
 - USE FORGED WEDGE PLATE BLANK 68 12 142 91.
 - USE KEEPER PLATE ONLY FOR PRE-ASSEMBLED AND INACCESSIBLE DEAD END ANCHORS. USE (3) BLACK HEX BOLTS, 1" LONG WITH NARROW WASHERS (BY OTHERS).

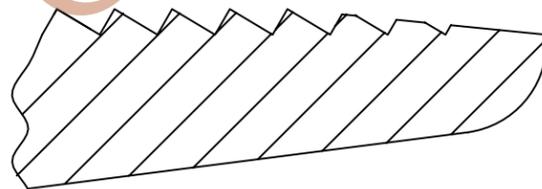
APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH/mm mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS00014200F		TOLERANCES: ± 0.20 UNLESS NOTED	WEIGHT 14 LBS.	REV.	DATE	NAME	PART NUMBER: 68 12 143
12-0.6" FORGED WEDGE PLATE FOR FIXED END				MATERIAL: SEE ABOVE	SCALE 1:2				DRAWING NUMBER: 68 12 143
DATE: 09-14-07	DWG: G. MALECKI	CHK: K.L.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.								DSI	

SPRING WIRE RING:
 WIRE $\phi = .040$ (1,0), ID = .905 (23.0)
 NO. OF TURNS: $1.5 \pm .25$
 WIRE QUALITY: ASTM 228



DETAIL 1
5:1



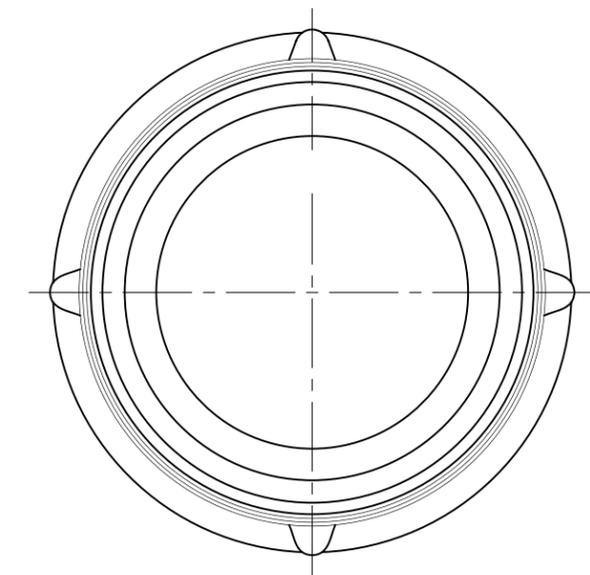
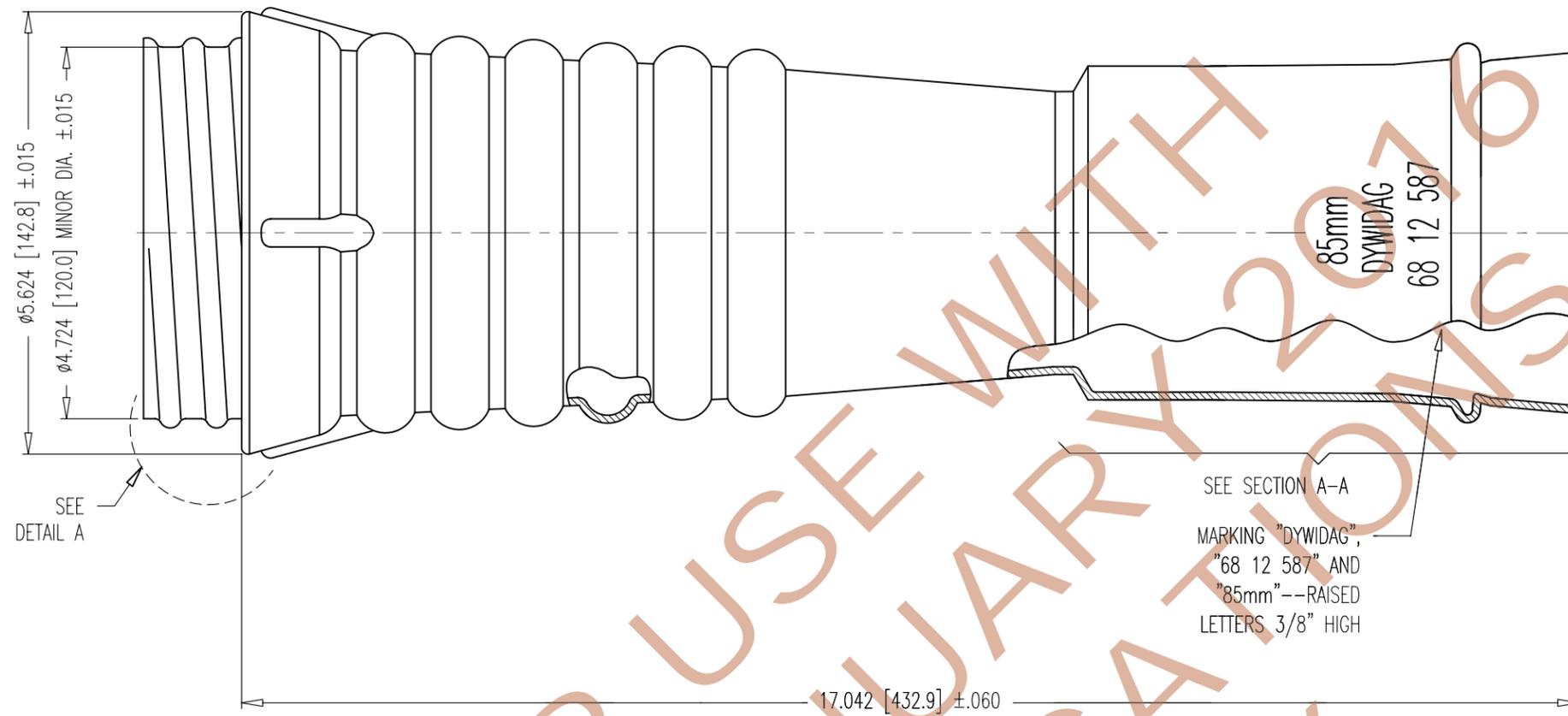
DETAIL 2
5:1

NOTES:

5. NO STAMPED PART NUMBER

APPROVED BY FDOT 05-31-07

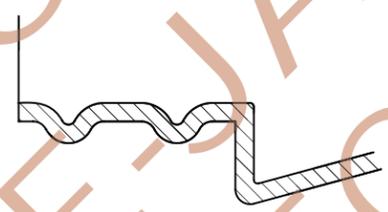
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS00000500DP2		TOLERANCES: $\pm .010$; $\pm 2^\circ$ UNLESS NOTED	WEIGHT 0.19 LBS.	REV.	DATE	NAME	PART NUMBER: 68 00 0536
3-PART WEDGE 7° x 29 mm x 42 mm 0.6" STRAND				MATERIAL: SEE MAT'L SPEC. PMU0005360B	SCALE 2:1 5:1				DRAWING NUMBER: 68 00 0536
				DATE: 05-31-07	DWG: G. MALECKI	CHK: C.S.	APP: K.L.		
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END VIEW

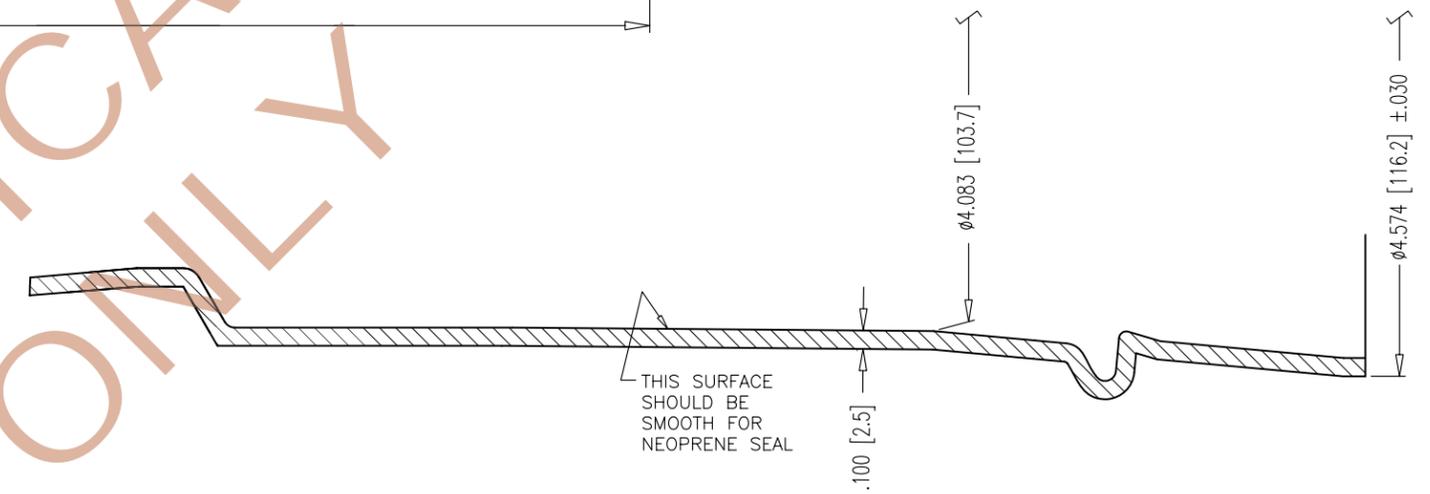
SEE SECTION A-A
 MARKING "DYWIDAG",
 "68 12 587" AND
 "85mm"--RAISED
 LETTERS 3/8" HIGH

SEE
 DETAIL A



DETAIL A

THREAD FITS INTO 12-0.6" MPA
 CASTING (SEE DRAWING 68 12 216)



SECTION A-A

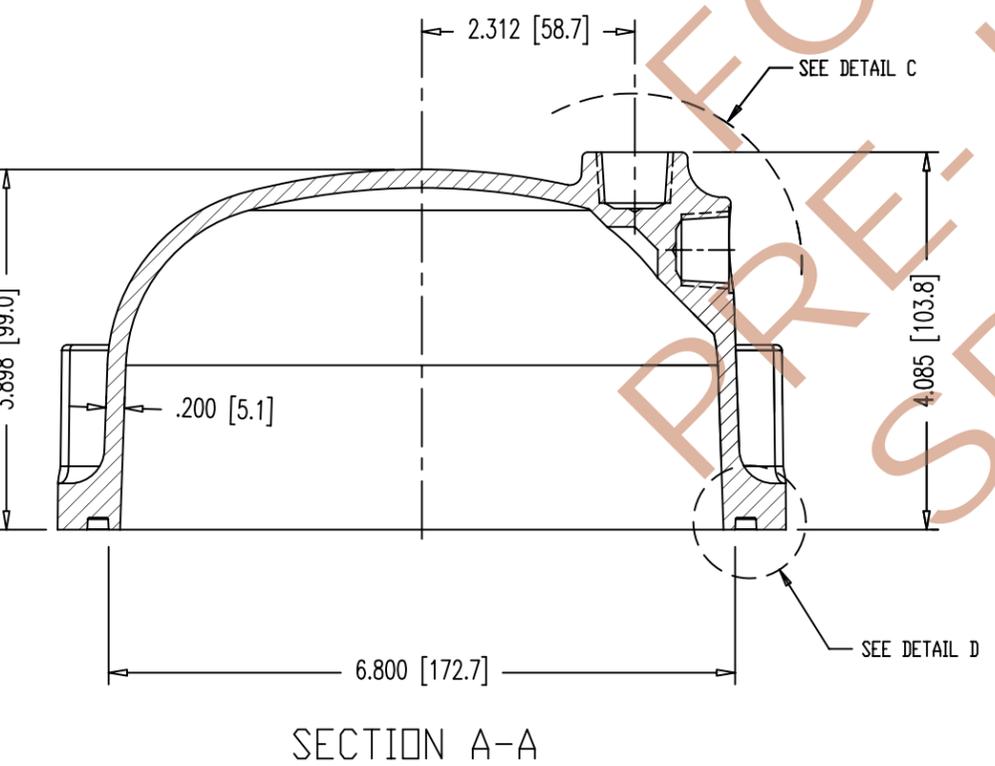
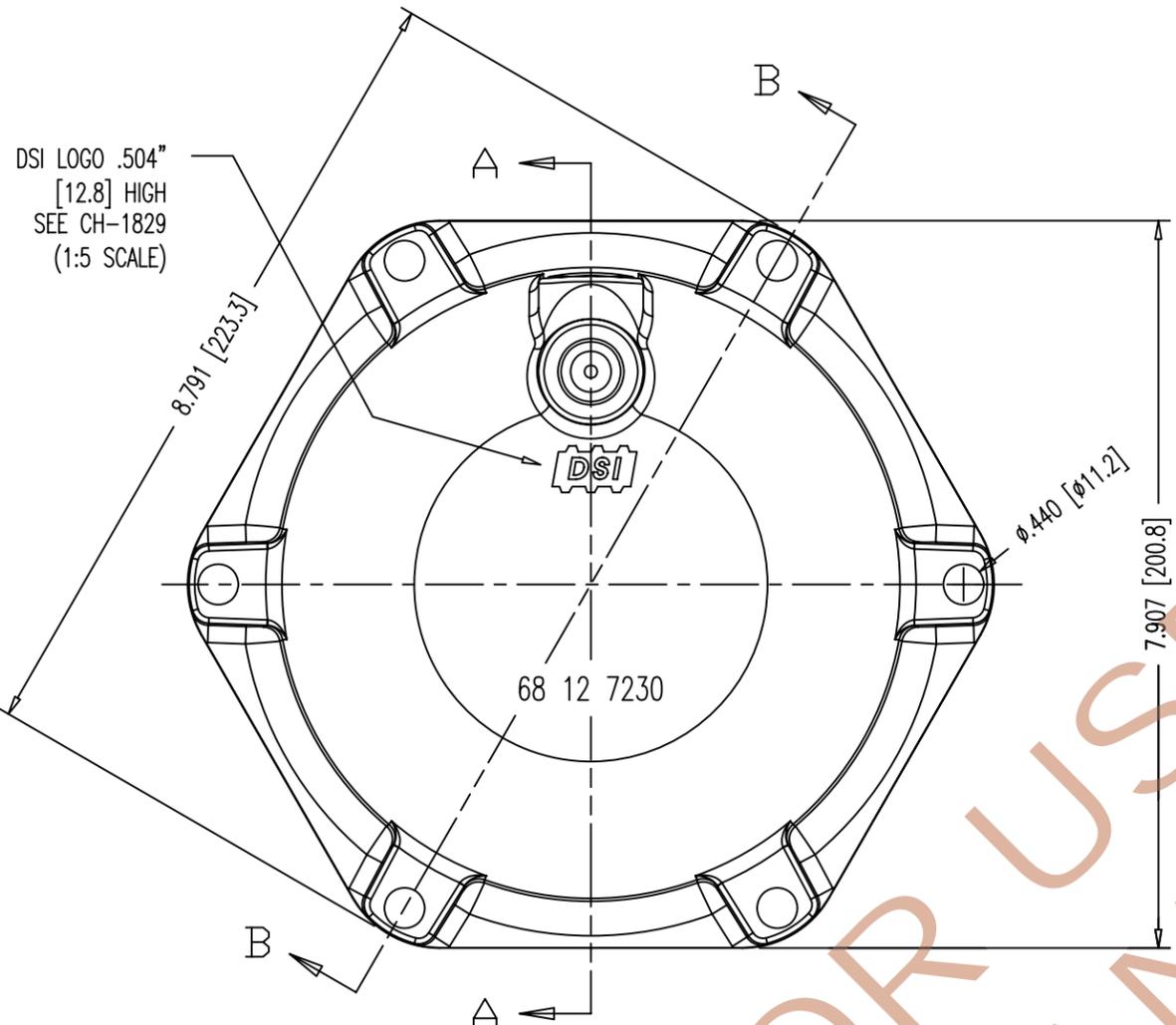
(THESE INSIDE DIMENSIONS ARE MORE
 IMPORTANT THAN OUTSIDE DIMENSIONS,
 MUST FIT OVER 85mm GTI DUCT U00220350)

APPROVED BY FDOT 09-14-07

MATERIAL SPECIFICATIONS:
 MANUFACTURE TRUMPETS FROM NON-COLORED,
 UNFILLED POLYETHYLENE MEETING THE REQUIREMENTS
 OF ASTM D4976. THE TRUMPET SHALL BE WHITE IN
 COLOR CONTAINING ANTIOXIDANT(S) WITH A MINIMUM
 OXIDATION INDUCTION TIME (OIT) ACCORDING TO ASTM
 D 3895 OF 20 MINUTES AND CONTAINING A NON-YELLOWING
 LIGHT STABILIZER. THE STRESS CRACK RESISTANCE TEST OF
 THE TRUMPET SHALL RESULT IN A MINIMUM FAILURE TIME OF
 3 HOURS ACCORDING TO F 2136 AT AN APPLIED STRESS OF 348 PSI

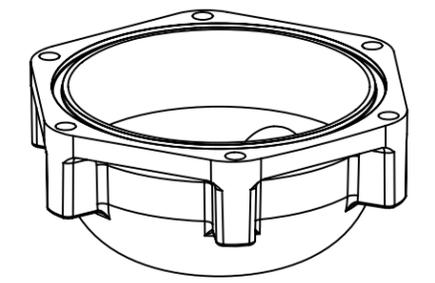
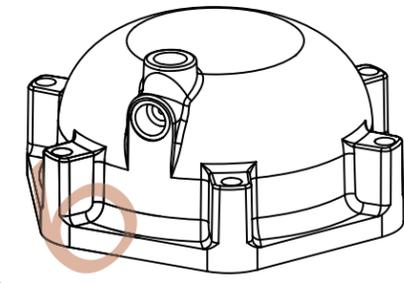
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT	REV.	DATE	NAME	PART NUMBER: 68 12 587	
12-0.6" TRUMPET FOR MPA TO 85mm GTI DUCT				MATERIAL: SEE ABOVE	SCALE 1:2 1:1 1:4				DRAWING NUMBER: 68 12 587	
DATE: 09-14-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.						DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405





DSI LOGO .504"
[12.8] HIGH
SEE CH-1829
(1:5 SCALE)

- NOTES:
1. ALL DIMENSIONS DEPENDENT ON 3D DATA BASE USED FOR MOLD FABRICATION
 2. USE 3/8"-16UNC 316L S.S. HEX BOLTS, 2-1/2" LONG W/SMALL DIA. WASHER.
 3. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPPING. DON'T USE EXCESSIVE ADHESIVE. O-RING MUST STAY IN PLACE UNTIL INSTALLATION.
 4. THE CELL CLASSIFICATION SHALL CONFORM TO ASTM D5989 AND SHALL BE S-PA0141 (WEATHER RESISTANT), S-PA0231 OR S-PA0401 (TENSILE STRENGTH, YIELD 15000 PSI MIN., WITH UV STABILIZER ADDED).
 5. DRILL 1/2" [12.7] HOLE IN PORT BEING USED-CAUTION-RECOMMEND USING HOLE SAW BIT OR SPADE BIT (BY OTHERS), BE CAREFULL TO PREVENT DAMAGE TO THREADS OR CAP.
 6. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!

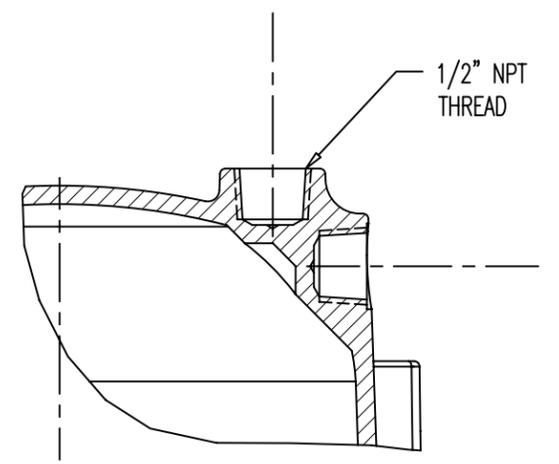


SCALE 1:2 IN COMPUTER
SCALE: 1:4 (11"x17" PLOT)

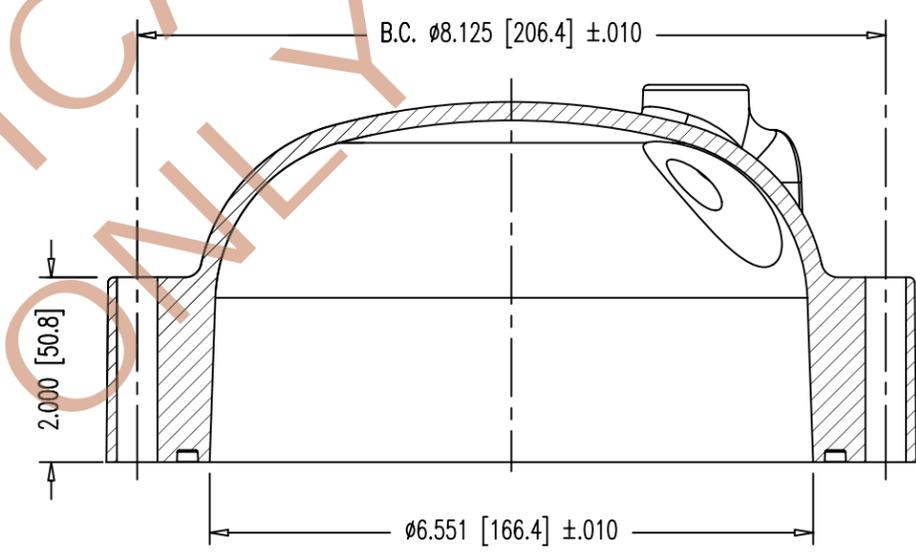


#364 O-RING
6-3/4"x7-1/8"x3/16"
O-RING MATERIAL: BUNA "N"

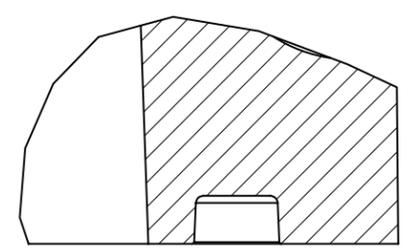
SCALE 1:2 IN COMPUTER (SCALE: 1:4 11"x17" PLOT)



DETAIL C



SECTION B-B



DETAIL D
SCALE 4:1 IN COMPUTER
SCALE: 2:1 (11"x17" PLOT)

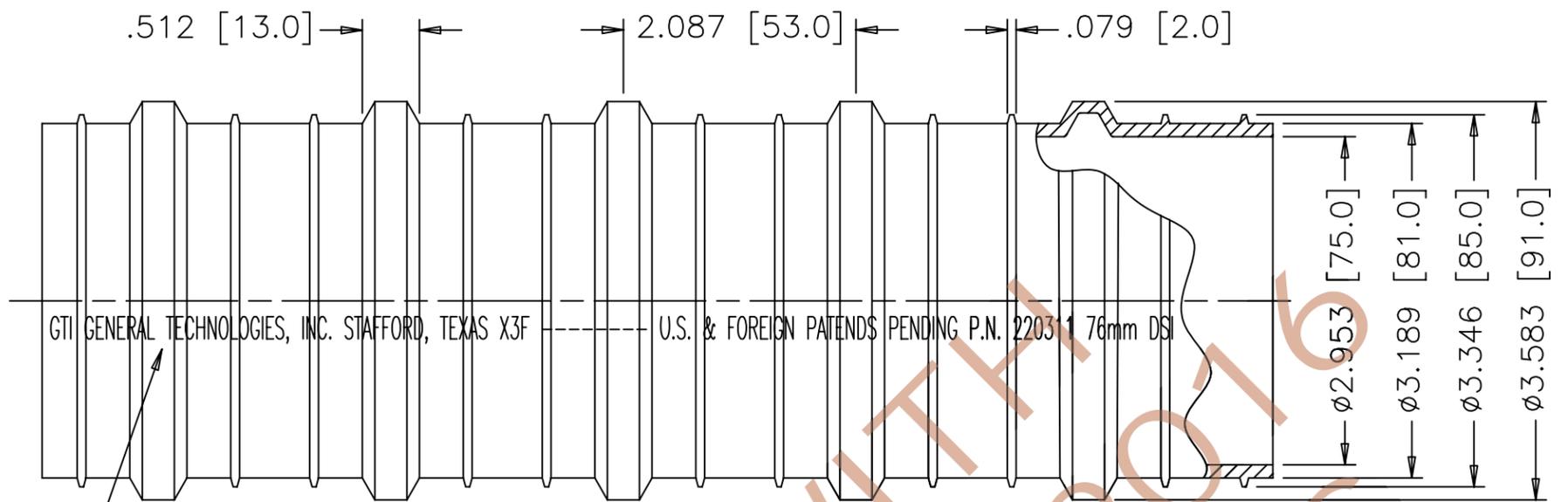
Tolerance Note:
All tolerances are based on SPI/SPE and should be as follows unless specified otherwise:

Dim.	Tolerance
0-1" =	+/- 0.005"
1-2" =	+/- 0.007"
2-3" =	+/- 0.009"
3-4" =	+/- 0.011"
4-5" =	+/- 0.013"
5-6" =	+/- 0.015"
6-7" =	+/- 0.017"
7-8" =	+/- 0.019"
8-9" =	+/- 0.021"
9-10" =	+/- 0.023"
10-11" =	+/- 0.025"
11-12" =	+/- 0.027"

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60072300P		TOLERANCES: SEE TOLERANCE NOTE		WEIGHT 1.52 LBS.		REV.	DATE	NAME	PART NUMBER: 68 12 7230
12-0.6" PLASTIC GROUT CAP				MATERIAL: NYLON 6, 20% GLASS FIBER FILLED		SCALE 1:2 UNLESS NOTED					DRAWING NUMBER: 68 12 7230
DATE: 09-14-07 DWG: G. MALECKI CHK: E.A. APP: K.S.				THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.							
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405											

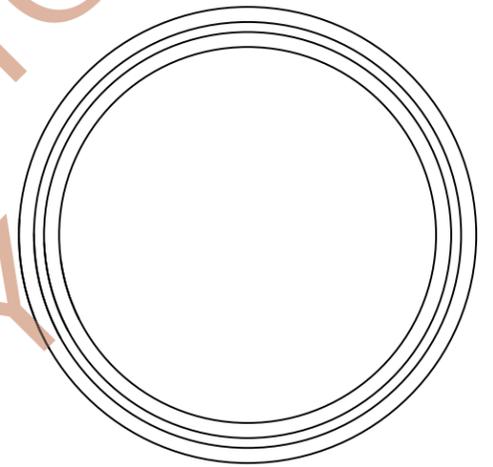




RUNNING LATEX PRINT:

"GTI GENERAL TECHNOLOGIES, INC. STAFFORD, TEXAS X3F ----- U.S. & FOREIGN PATENTS PENDING P.N. 220311 76mm DSI" (----- = BATCH NUMBER).

FOR USE IN JANUARY 2016 PRE-JANUARY SPECIFICATIONS ONLY

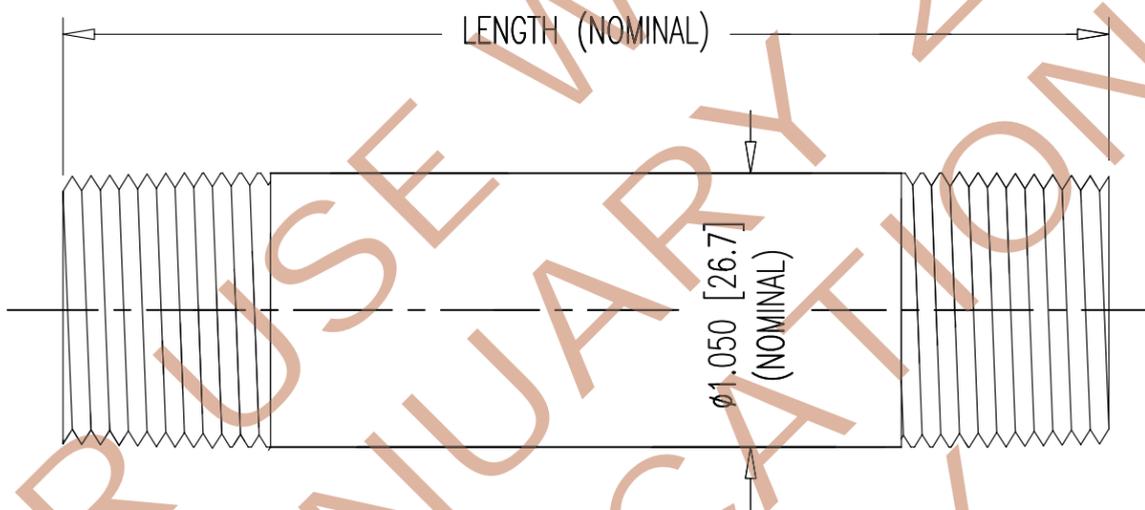


NOTES:

1. GTI GENERAL TECHNOLOGIES, INC. STAFFORD, TEXAS X3F ----- U.S. & FOREIGN PATENTS PENDING P.N. 220311 76mm DSI (----- IS BATCH NO.).
2. ALL DIMENSIONS MEASURED.
3. STANDARD FIT FOR 9-0.6" & 12-0.5" STRANDS.
4. THIS DRAWING IS NOT INTENDED FOR MANUFACTURING PURPOSES.
5. Min. BENDING RADIUS, $R_{min} = 13.84$ FT.
6. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QU00041110P		TOLERANCES: ±.010 UNLESS NOTED	WEIGHT 0.46 LBS.	REV.	DATE	NAME	PART NUMBER: U00220311	
3" (76mm) MEDIUM THICKNESS CORR. PP DUCT				MATERIAL: PM00004111P "PPEX3"	SCALE 1:2				DRAWING NUMBER: U00220311	
DATE: 02-08-08	DWG: G. MALECKI	CHK: S.N.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI 's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.						
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405										



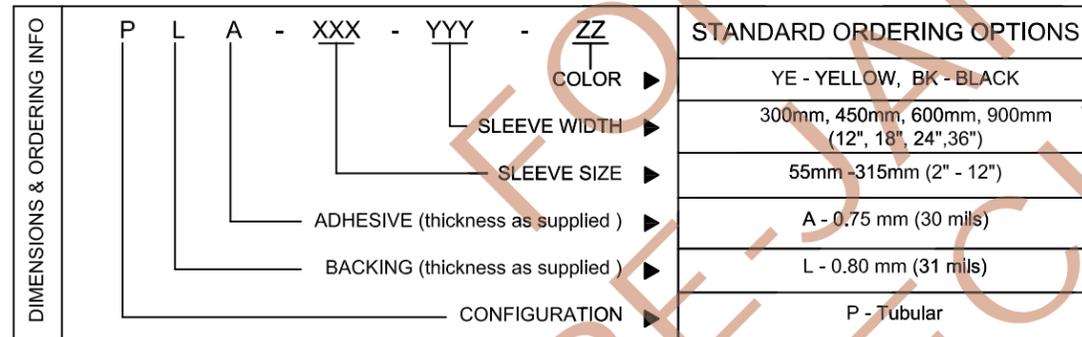
PART NUMBER	LENGTH	WEIGHT
00 00 871	4" [101.6mm]	0.071 LBS.
00 00 873	6" [152.4mm]	0.107 LBS.
00 00 875	12" [304.8mm]	0.214 LBS.

APPROVED BY FDOT 07-11-08

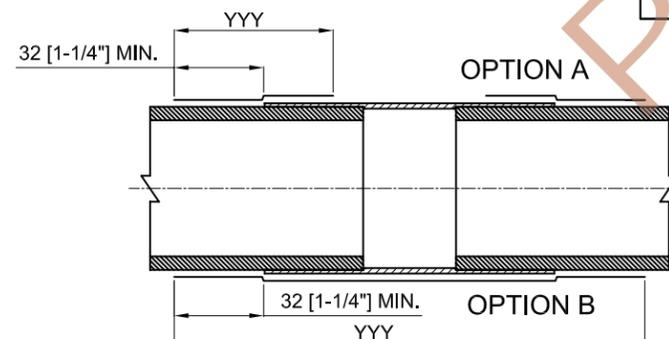
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000020P		REV.	DATE	NAME	PART NUMBER: SEE TABLE
3/4" NPT PIPE NIPPLES, PVC				MATERIAL: SCH 80 PVC	SCALE 1:1		DRAWING NUMBER: 00 00 875
				DATE: 02-21-08	DWG: G. MALECKI	CHK: S.N.	APP: K.S.
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HEAT SHRINK SLEEVES - PLA TYPE UNO

TENDON SIZE		1 x 0.6"	3 x 0.6"	4 x 0.6"	1 x 0.6"	7 x 0.6" 1 3/8"	9 x 0.6" 1 3/4"	12 x 0.6" 1 3/4"	15, 19 x 0.6"	27 x 0.6"	37 x 0.6"
DUCT	ID	0.90" [23 mm] x 1.50" [38 mm]	0.827" [21 mm] x 2.835" [72 mm]	0.984" [25 mm] x 2.992" [76 mm]	Ø 0.94" [23.879 mm]	Ø 2.323" [59 mm]	Ø 2.99" [75.9 mm]	Ø 3.346" [85.0 mm]	Ø 3.937" [100 mm]	Ø 4.528" [115.0 mm]	Ø 5.039" [128.0 mm]
	OD ₁	1.45" [37] x 2.05" [52 mm]	1.378" [35] x 3.386" [86 mm]	1.554" [39.5 mm] x 3.551" [90.2 mm]	Ø 1.48" [37.6 mm]	Ø 2.874" [73 mm]	Ø 3.58" [90.9 mm]	Ø 3.946" [100.2 mm]	Ø 4.573" [116.2 mm]	Ø 5.303" [134.7 mm]	Ø 5.96" [151.0 mm]
	OD ₂		0.984" [25] x 2.992" [76 mm]	1.142" [29 mm] x 3.15" [80 mm]	Ø 1.06" [26.9 mm]	Ø 2.480" [63 mm]	Ø 3.35" [85.1 mm]	Ø 3.546" [90.1 mm]	Ø 4.173" [106.0 mm]	Ø 4.803" [122.0 mm]	Ø 5.36" [136.0 mm]
GTI COUPLER Max. OD		1.63" [41 mm] x 2.23" [57 mm]	1.565" [39.8 mm] x 3.565" [90.55 mm]	1.714" [43.54 mm] x 3.674" [93.32 mm]	Ø 1.7" [43.2 mm]	Ø 3.031" [77 mm]	Ø 3.738" [94.9 mm]	Ø 4.134" [105 mm]	Ø 4.698" [119.3 mm]	Ø 5.599" [142.2 mm]	Ø 6.151" [156.2 mm]
ORDER PART #	OPTION A	N/A	PLA-55-112-YE	PLA-55-112-YE	N/A	PLA-55-112-YE	N/A	N/A	N/A	N/A	N/A
	OPTION B	N/A	PLA-55-225-YE	PLA-55-225-YE	N/A	PLA-55-225-YE	PLA-90-225-YE	N/A	N/A	N/A	N/A
DSI COUPLER Max. OD		N/A	N/A	N/A	N/A	Ø 3.701" [94 mm]	N/A	Ø 4.824" [122.5 mm]	Ø 5.5" [139.7 mm]	Ø 6.278" [159.5 mm]	N/A
ORDER PART #	OPTION A	N/A	N/A	N/A	N/A	PLA-55-150-YE	N/A	PLA-90-150-YE	PLA-100-150-BK	PLA-125-150-YE	N/A
	OPTION B	N/A	N/A	N/A	N/A	PLA-55-450-YE	N/A	PLA-90-450-YE	PLA-100-450-BK	PLA-125-450-YE	N/A
COLOR		YE	YE	YE	BK	YE	YE	YE	BK	YE	BK
SLEEVE SIZE		PMA-90/30	55	55	PMA-70/25	55	90	90	100	125	160



*PMA - HIGH SHRINK SLEEVE.
 - SPCCS. SAME AS PLA.
 - EXPENSIVE THAN PLA (NEEDS LONGER LEAD TIME).
 - HIGH SHRINK TUBULAR BACKING.



MATERIAL:

ACCORDING TO FDOT SPECIFICATION
 POST TENSIONING, SECTION 462 - 4, 2, 6, 3.

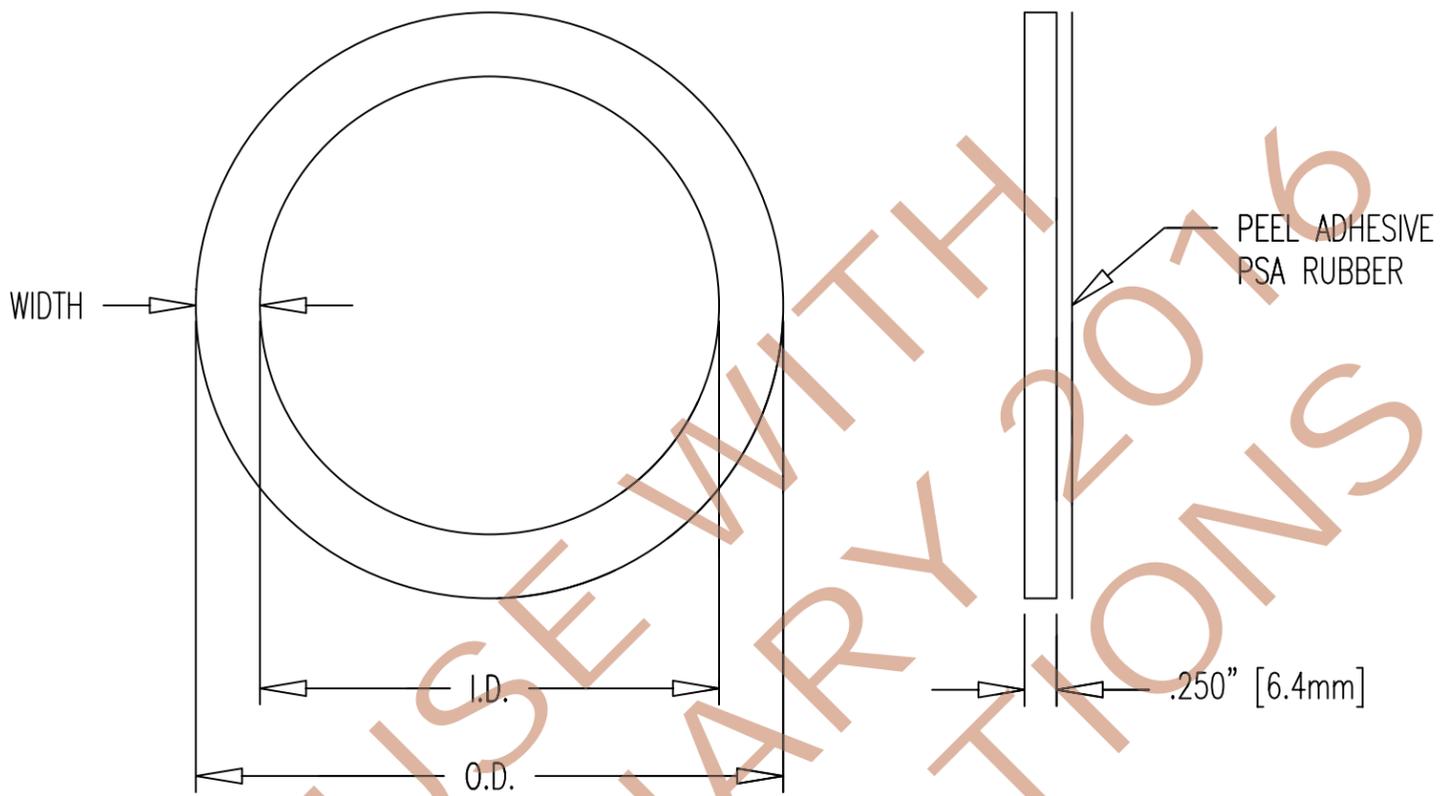
NOTES:

1. ORDER DIRECT FROM CANUSA
 TEL. 281 367 - 8866
 FAX. 281 367 - 4304
2. ABOVE TABLE APPLIES TO INTERNAL USE ONLY.
3. SELECT ORDER LENGTH AS A MULTIPLE OF THE ACTUAL LENGTH. SEE OPTION A OR B.
4. *NO CONNECTION DETAILS DEVELOPED.
5. OTHER COLORS SLEEVE MAY BE AVAILABLE UPON REQUEST.
6. OD₁ IS MAX. OD W/ RIBS AND OD₂ IS MAX. OD W/O RIBS
7. N/A MEANS NOT AVAILABLE OR NOT ASSIGNED YET.
8. ALWAYS HEAT THE DUCT ENDS FIRST.

APPROVED BY FDOT 05-31-07

TUBULAR SLEEVE	TUBULAR SLEEVE DIAMETER	
	AS SUPPLIED	FULLY RECOVERED
PLA 55-YYY ZZ	3.5" [90mm]	2.3" [55mm]
PLA 63-YYY ZZ	3.5" [90mm]	2.5" [63mm]
PLA 90-YYY ZZ	4.8" [120mm]	3.3" [81mm]
PLA 100-YYY ZZ	5" [130mm]	3.5" [90mm]
PLA 115-YYY ZZ	5.5" [145mm]	3.8" [98mm]
PLA 125-YYY ZZ	6.3" [160mm]	4.3" [110mm]
PLA 160-YYY ZZ	7.5" [190mm]	5.2" [130mm]
PLA 170-YYY ZZ	8" [205mm]	5.5" [140mm]
PLA 230-YYY ZZ	10" [260mm]	7" [180mm]
PLA 280-YYY ZZ	12.3" [315mm]	8.3" [211mm]
PLA 315-YYY ZZ	14" [360mm]	9.5" [245mm]
PMA 90/30	3.5" [90mm]	1.2" [30mm]
PMA 70/25	2.8" [70mm]	1.0" [25mm]

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		REV. DATE NAME		PART NUMBERS:	
HEAT SHRINK SLEEVE SIZES FOR INTERNAL APPLICATIONS				SEE TABLE ABOVE	
DATE: 05-31-07	DWG: I.TIRA	CHK: E.A.	APP: K.S.	DRAWING NUMBER: PLA-0-0-0	
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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					

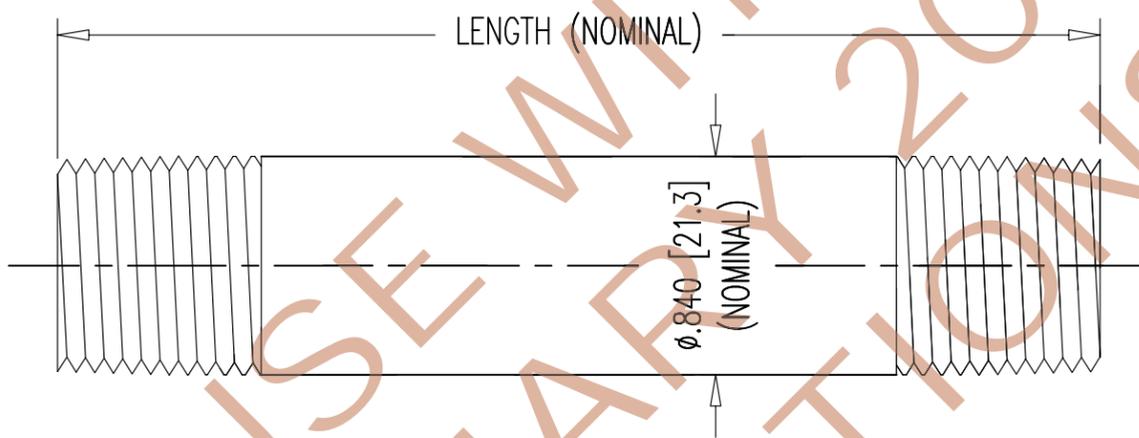


PART NUMBER	SYSTEM	O.D.	I.D.	WIDTH
68 07 584	7-0.6"	ø4.580" [116mm]	ø3.580" [91mm]	.500" [12.7mm]
68 12 584	12-0.6"	ø5.695" [145mm]	ø4.820" [122mm]	.438" [11.1mm]
68 19 584	19-0.6"	ø6.675" [170mm]	ø5.800" [147mm]	.438" [11.1mm]
68 27 584	27-0.6"	ø7.340" [186mm]	ø6.340" [161mm]	.500" [12.7mm]

NOTE:
SPECIAL ORDER
NO STAMPED PART NUMBER

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60063300R		TOLERANCES: ±.030 UNLESS NOTED		REV.	DATE	NAME	PART NUMBER: 68 07 584 68 12 584 68 19 584 68 27 584		
RUBBER SEAL BETWEEN MPA AND TRUMPET				MATERIAL: CLOSED CELL NEOPRENE BLEND		SCALE NTS				DRAWING NUMBER: 68 00 584	
				DATE: 09-14-07		DWG: G. MALECKI		CHK: C.N.			APP: E.A.
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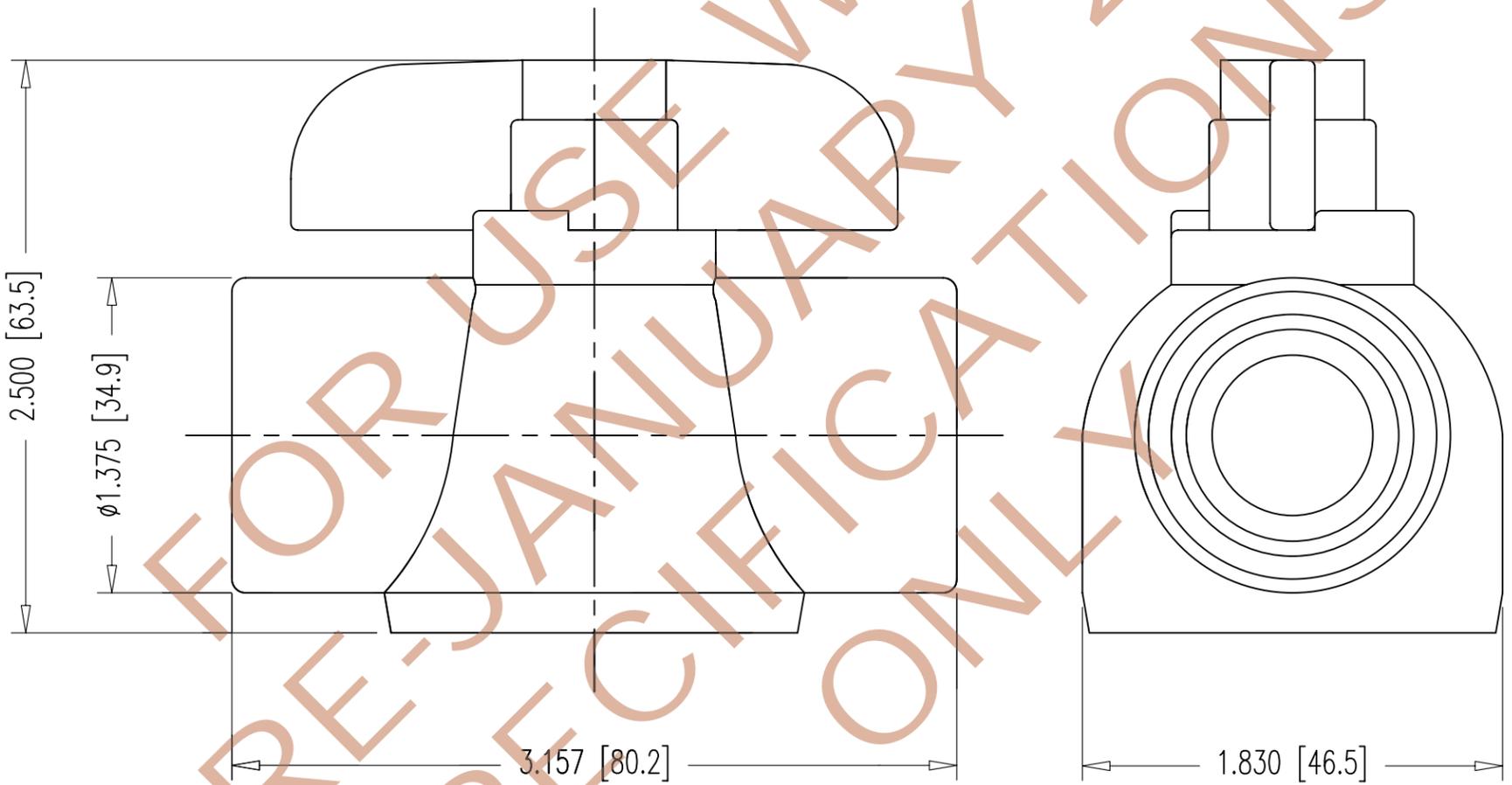
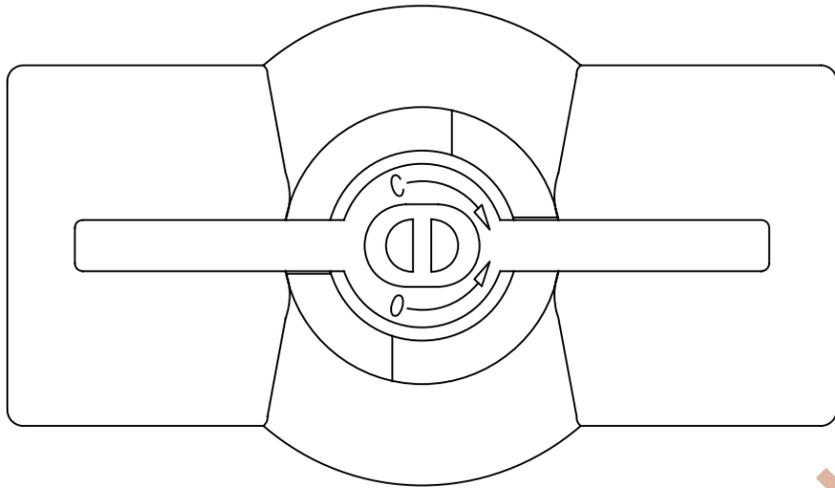


PART NUMBER	LENGTH	WEIGHT
00 00 671	4" [101.6mm]	0.054 LBS.
00 00 673	6" [152.4mm]	0.081 LBS.
00 00 675	12" [304.8mm]	0.161 LBS.

APPROVED BY FDOT 07-11-08

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000020P		REV.	DATE	NAME	PART NUMBER: SEE TABLE
1/2" NPT PIPE NIPPLES, PVC				MATERIAL: SCH 80 PVC	SCALE 1:1		DRAWING NUMBER: 00 00 675
				DATE: 09-21-08 DWG: G. MALECKI CHK: S.N. APP: K.S.		DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405	
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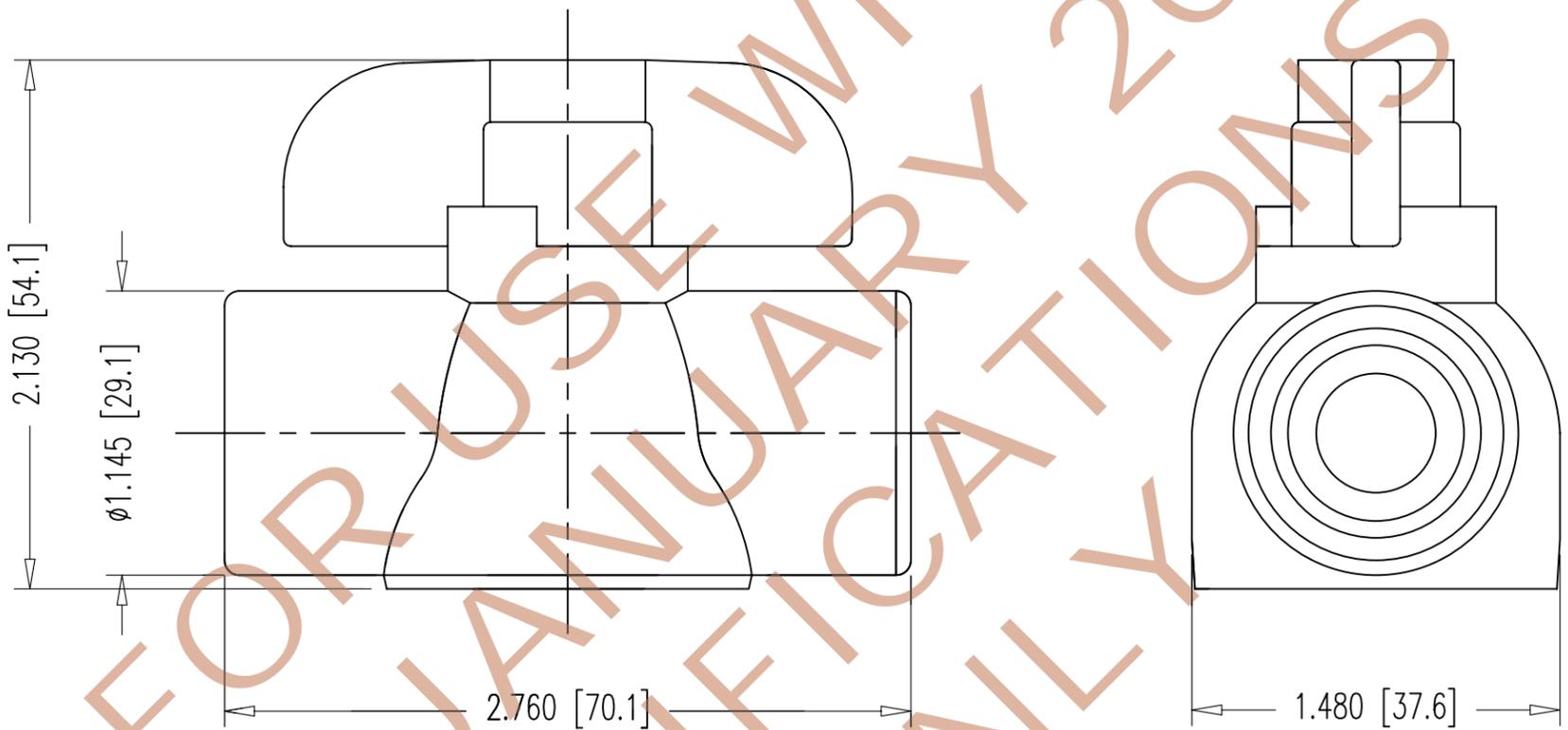
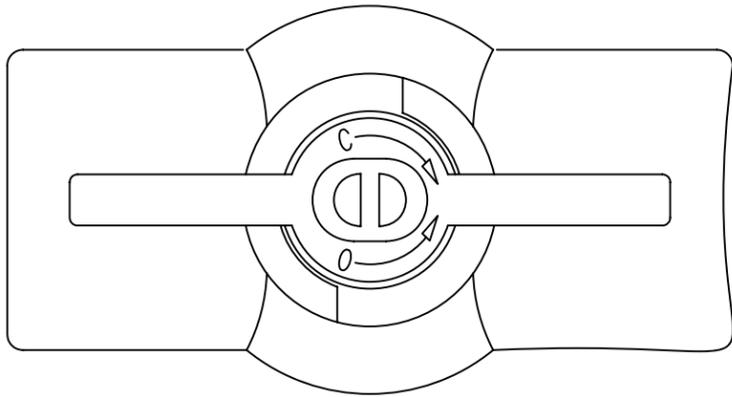


NOTE:
ALL DIMENSION MEASURED.

SUPPLIER: KING BROTHERS
SUPPLIER PART NO. EBV-0750-T

APPROVED BY FDOT 09-14-07

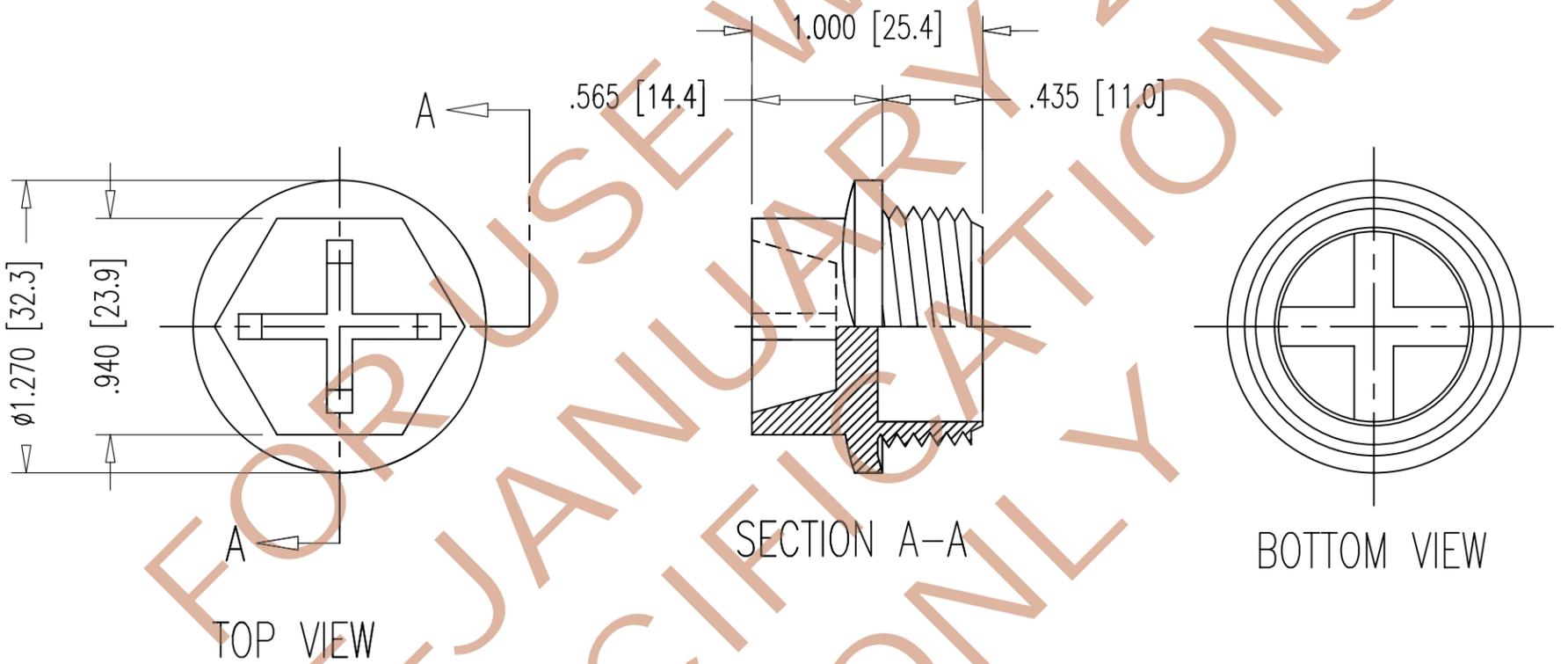
DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		WEIGHT 0.213 LBS.	REV.	DATE	NAME	PART NUMBER: 00 00 834
3/4" NPT BALL VALVE								
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405				
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NOTE:
 ALL DIMENSION MEASURED.
 SPECIAL ORDER: NO STAMPED PART NUMBER.
 SUPPLIER: KING BROTHERS
 SUPPLIER PART NO. EBV-0500-T

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		WEIGHT 0.138 LBS.	REV.	DATE	NAME	PART NUMBER: 00 00 634
1/2" NPT BALL VALVE								
DATE: 09-14-07	DWG: G. MALECKI	CHK: S.N.	APP: E.A.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405				
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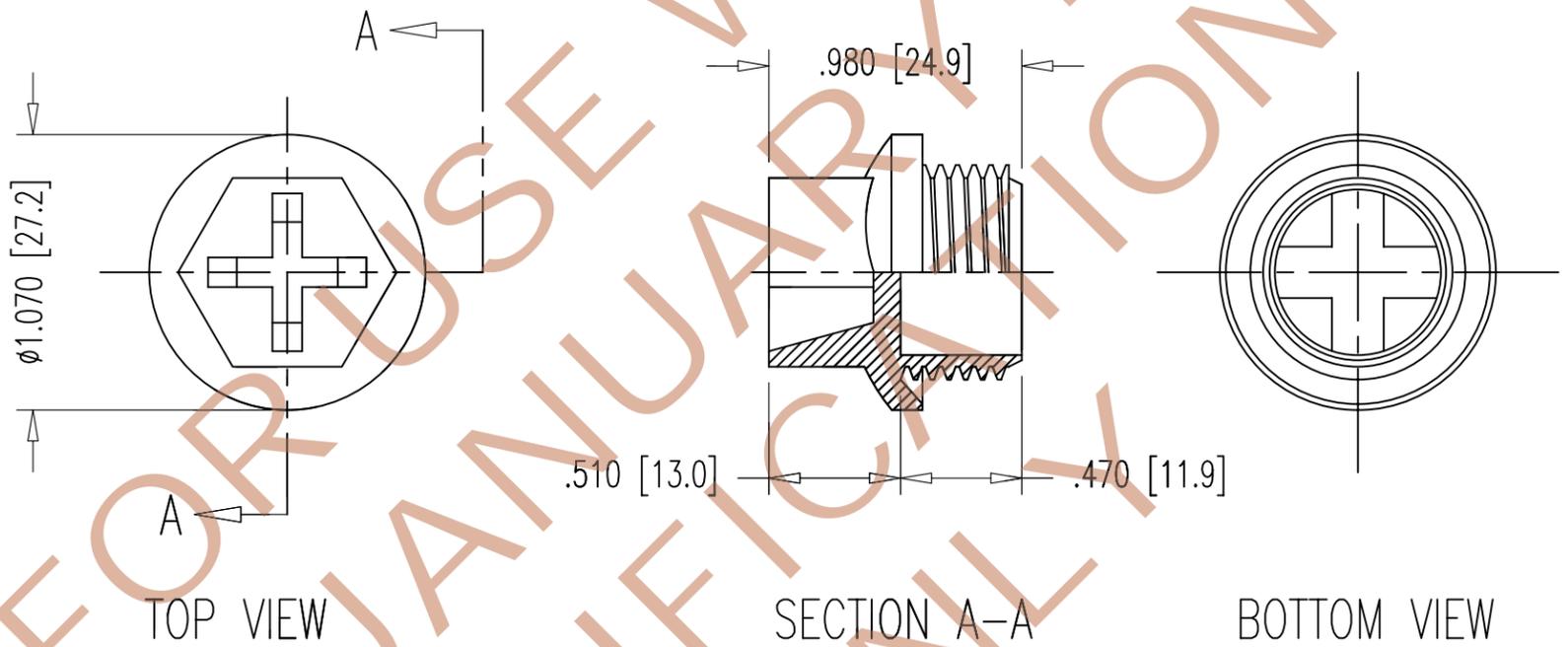


NOTE:
 ALL DIMENSIONS MEASURED.
 SPECIAL ORDER: NO STAMPED PART NUMBER.

SUPPLIER:
 NIAGARA PLASTICS (CAPPLUGS) 
 SUPPLIER PART # : BT 0750

APPROVED BY FDOT 05-31-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q00000040P		TOLERANCES: ±.010 UNLESS NOTED	WEIGHT LBS.	REV. 1	DATE 08-19-08	NAME S.Y.	PART NUMBER: 00 00 847	
BT 0750 (3/4") NPT NYLON PLUG				MATERIAL: NYLON 6 COLOR: BLACK	SCALE 1:1				DRAWING NUMBER: 00 00 847	
DATE: 05-31-07	DWG: G. MALECKI	CHK: S.Y.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405						
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NOTE:
 ALL DIMENSIONS FROM NIAGARA PLASTICS TABLE.
 SPECIAL ORDER: NO STAMPED PART NUMBER.

SUPPLIER:
 NIAGARA PLASTICS (CAPPLUGS) 
 SUPPLIER PART # : BT 0500

APPROVED BY FDOT 12-12-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: Q000000040P		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 0.019 LBS.	REV. 1	DATE 08-19-08	NAME S.Y.	PART NUMBER: 00 00 647
BT 0500 (1/2") NYLON PLUG				MATERIAL: NYLON 6 COLOR: YELLOW	SCALE 1:1				DRAWING NUMBER: 00 00 647
				DATE: 01-17-07 DWG: G. MALECKI CHK: S.Y. APP: K.S.		THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.		DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405	