**NOTES:**
1. USERS SHALL REFER TO FDOT STANDARD SPECIFICATIONS AND PROJECT SPECIFIC CRITERIA FOR TENDON INSTALLATION, STRESSING, & GROUTING.
2. REQUIRED REINFORCING BARS ARE NOT SHOWN ON THIS DRAWING.
3. MAXIMUM ANGULAR MISALIGNMENT WHEN USING ANCHOR NUT: ±2°.
4. CENTER TO CENTER, END AND EDGE DISTANCE DEPENDS ON THE LOCATION OF THE BAR AND CONCRETE STRENGTH, (SEE TABLE).
5. C/C DISTANCE = 2 X END DISTANCE - 2 X CONCRETE COVER (2" ASSUMED). TIGHTER C/C DISTANCE SHOULD BE EVALUATED.
6. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.
7. BURSTING REINFORCEMENT IS NOT SHOWN AND WILL BE INCLUDED WITH THE SHOP DRAWINGS.
8. THREADBAR TENDONS ARE STRESSED FROM ONE END ONLY.

**MATERIAL LIST**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>MATERIAL SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>B26E22510</td>
<td>1 3/8&quot; 1/2&quot; OD x 3/16&quot; WALL, 5-1/2&quot; LONG MECHANICAL TUBING</td>
<td>ASTM A512, A513 OR A519, ASSEMBLY GALVANIZED</td>
</tr>
<tr>
<td>B26E22610</td>
<td>1 3/8&quot; 1/2&quot; OD x 3/16&quot; WALL, 5-1/2&quot; LONG MECHANICAL TUBING</td>
<td>ASTM A512, A513 OR A519, ASSEMBLY GALVANIZED</td>
</tr>
<tr>
<td>B36E22710</td>
<td>NYLON BAR GROUT CAP WITH O-RING</td>
<td>NYLON 6, WHITE</td>
</tr>
<tr>
<td>00 00 783</td>
<td>1/2&quot; NPT PLUG</td>
<td>POLYPROPYLENE</td>
</tr>
<tr>
<td>00 00 774</td>
<td>1/2&quot; NPT NIPPLE</td>
<td>POLYPROPYLENE</td>
</tr>
<tr>
<td>U00044030</td>
<td>HEAT SHRINK SLEEVE, PMA-300-450-BK</td>
<td>ACCORD TO FOOT SPEC P.T. SEC. 390-2.2.7.8</td>
</tr>
<tr>
<td>ANS TEFLOM TAPE OR PASTE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INTERNAL GROUTED SYSTEM FOR 1" (26mm) THREADBAR ASSEMBLY**

**PART NO.**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B26E22510</td>
<td>1 3/8&quot; 1/2&quot; OD x 3/16&quot; WALL, 5-1/2&quot; LONG MECHANICAL TUBING</td>
</tr>
<tr>
<td>B26E22610</td>
<td>1 3/8&quot; 1/2&quot; OD x 3/16&quot; WALL, 5-1/2&quot; LONG MECHANICAL TUBING</td>
</tr>
<tr>
<td>B36E22710</td>
<td>NYLON BAR GROUT CAP WITH O-RING</td>
</tr>
<tr>
<td>00 00 783</td>
<td>1/2&quot; NPT PLUG</td>
</tr>
<tr>
<td>00 00 774</td>
<td>1/2&quot; NPT NIPPLE</td>
</tr>
<tr>
<td>U00044030</td>
<td>HEAT SHRINK SLEEVE, PMA-300-450-BK</td>
</tr>
</tbody>
</table>

**NOTES:**
- USERS SHALL REFER TO FDOT STANDARD SPECIFICATIONS AND PROJECT SPECIFIC CRITERIA FOR TENDON INSTALLATION, STRESSING, & GROUTING.
- REQUIRED REINFORCING BARS ARE NOT SHOWN ON THIS DRAWING.
- MAXIMUM ANGULAR MISALIGNMENT WHEN USING ANCHOR NUT: ±2°.
- CENTER TO CENTER, END AND EDGE DISTANCE DEPENDS ON THE LOCATION OF THE BAR AND CONCRETE STRENGTH (SEE TABLE).
- C/C DISTANCE = 2 X END DISTANCE - 2 X CONCRETE COVER (2" ASSUMED). TIGHTER C/C DISTANCE SHOULD BE EVALUATED.
- DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.
- BURSTING REINFORCEMENT IS NOT SHOWN AND WILL BE INCLUDED WITH THE SHOP DRAWINGS.
- THREADBAR TENDONS ARE STRESSED FROM ONE END ONLY.
RIGHT HAND THREAD

PART NUMBERS
FOR BARE BAR: B26E CUT

SPECIFICATIONS
ASTM A722 TYPE II

PHYSICAL PROPERTIES

EFFECTIVE AREA: 0.85 SQ.IN.
ULTIMATE STRENGTH: 150 KSI
ULTIMATE LOAD: 127.5 KIPS
YIELD LOAD: 102.8 KIPS
WEIGHT: 3.01 LBS./FT.
MAX. BAR Ø INCL. RIBS: 1.20 IN.
AVERAGE CORE Ø: 1.02 IN.
PITCH: 0.510 IN.
PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE AS12, AS13 OR AS19

NOTES:
1. PLATE AND PIPE GALVANIZED ACCORDING TO
   ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO
   UNCOATED PLATE AND TUBING.
3. ENSURE THREADABILITY OF TAPPED HOLES IN
   PLATES IF THEY ARE REQUIRED.
4. 59mm DUCT U00220200 FITS OVER TUBING.

PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE AS12, AS13 OR AS19

3/8"-16UNC DRILLED & TAPPED
1" [25.4] DEEP, 4x90° PLACES
PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE A512, A513 OR A519

NOTES:
1. PLATE AND PIPE GALVANIZED ACCORDING TO
   TO ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO
   UNCOATED PLATE AND TUBING.
3. ENSURE THREADABILITY OF TAPPED HOLES IN
   PLATES IF THEY ARE REQUIRED.
4. 59mm DUCT U002202000 FITS OVER TUBING.

RECT. BEARING PLATE WITH EXIT PIPE
FOR 1" THREADBAR

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 REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

320 MARMON DRIVE - BOLINGBROOK, IL  60440
PHONE: 630-739-1100  FAX: 630-739-1485

NOTES:
1. USE 3/8"-16UNC 316L S.S. HEX BOLTS, 3-1/4" LONG. DO NOT USE SMALL DIA. WASHERS OR FLAT HEADS.
2. INSTALL O-RING IN GROOVE USING GRIPS OF LIQUID ADHESIVE BEFORE SHIPPING.
3. THE NICKEL CONFORMS TO ASTM G55066, WITH MILL CERTIFICATION S-761461 (ULTIMATE STRENGTH 10,000 PSI MIN., WITH UV STABILIZER ADDED).
4. DRILL 1/2" [12.7] HOLE IN PORT BEING USED. CAUTION: RECOMMEND USING HOLE SAW BIT OR SQUARE BIT (BY OTHERS). BE CAREFUL TO PREVENT DAMAGE TO THREADS OR CAP.
5. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!
**WASHER FOR NYLON CAPS**

**STAINLESS STEEL 316L BOLTS AND WASHER FOR NYLON CAPS**

<table>
<thead>
<tr>
<th>POS.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION (ALL PARTS 316L STAINLESS STEEL UNLESS NOTED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>00 00 771</td>
<td>3/8&quot;-16UNC HEX BOLT, 2-3/4&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>2</td>
<td>00 00 772</td>
<td>3/8&quot;-16UNC HEX BOLT, 3-1/2&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>3</td>
<td>00 00 774</td>
<td>TYPE A NARROW WASHER FOR 3/8&quot;-UNC BOLT</td>
</tr>
<tr>
<td>4</td>
<td>00 00 776</td>
<td>3/8&quot;-16UNC COUPLER, ZINC COATED</td>
</tr>
<tr>
<td>5</td>
<td>00 00 777</td>
<td>5/16&quot;-18UNC HEX BOLT, 7/8&quot; LONG, ZINC PLATED</td>
</tr>
<tr>
<td>6</td>
<td>00 00 783</td>
<td>3/8&quot;-16UNC HEX BOLT, 3-1/4&quot; LONG (1&quot; LONG THREAD)</td>
</tr>
<tr>
<td>7</td>
<td>00 00 784</td>
<td>3/8&quot;-16UNC HEX BOLT, 4-1/4&quot; LONG (FULL THREAD)</td>
</tr>
<tr>
<td>8</td>
<td>00 00 789</td>
<td>3/8&quot;-16UNC CARRIAGE BOLT, 4-1/2&quot; LONG</td>
</tr>
<tr>
<td>9</td>
<td>00 00 790</td>
<td>3/8&quot;-16UNC CARRIAGE BOLT, 5-1/2&quot; LONG</td>
</tr>
</tbody>
</table>

**NOTE:**

- THE 316L S.S. BOLTS ARE SPECIAL ORDER.
- ALL WASHERS, HEX NUTS & COUPLERS HAVE NO MARKINGS.

---

**DIMENSIONS:** INCH

**QUALITY PLAN NUMBER:**

**STAINLESS STEEL 316L BOLTS AND WASHER FOR NYLON CAPS**

**DATE:** 09-04-04

**DRAWING NUMBER:** 00 00 770

---

**REV.** | **DATE** | **NAME** | **NAME** |
---|---|---|---|
1 | 06/01/98 | S.L | S.L |

**POST TENSIONING / REINFORCING UNIT**

**PHONE:** 830-739-1100

**ADDRESS:** 320 MARMON DRIVE - BOLINGBROOK, IL

**FAX:** 630-739-1405

**DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.**
GROUTABLE ANCHOR NUTS FOR 1" Ø BAR, 150 KSI

MATERIAL:
C1045 FORGING
ASTM A521-CF MOD.
NORMALIZED
BHN = 180-220

THREAD ACCORDING
TO TOLERANCE:
DRAWING 8341/496
MINOR DIAMETER:
1.045-1.049
(26.54-26.64)

1.850
[47.0]

MINOR DIA.

2.360
[60.0]

ø2.440
[62.0]
1/2" NPT NYLON PLUG

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH (mm)

QUALITY PLAN NUMBER:

WEIGHT: \(0.006\) LBS.

REV. DATE NAME EORN

MATERIAL: NYLON 6 COLOR: WHITE

SCALE: 1:1

DRAWING NUMBER:

PART NUMBER:

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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100  FAX: 630-739-1405
1/2" NPT PIPE NIPPLES

LENGTH VARIES

1/2" NPT THREAD TYP.

PRESSURE RATED: 150 PSI
3/4" NPT PIPE NIPPLES

LENGTH VARIES

3/4" NPT THREAD TYP.

PRESSURE RATED: 150 PSI

MATERIAL: SCH 40 BLACK WELDED STEEL

SCALE: 1:1
3/4" NPT NYLON PLUG

DIMENSIONS: INCH [mm]

QUALITY PLAN NUMBER:

WEIGHT: 0.009 LBS.

REV. DATE NAME

PART NUMBER: 00 00 849

MATERIAL: NYLON 6
COLOR: WHITE

SCALE: 1:1

DRAWING NUMBER: 00 00 849

PRESSURE RATED: 150 PSI

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DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
NOTE:
PRESSURE RATED: 150 PSI.
NOTE:
PRESSURE RATED: 150 PSI.
2-3/8" (59mm) CORRUGATED PP DUCT

MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS FDOT SPECS. 960-2.4.3.

NOTES:
1. STANDARD FIT FOR 5-0.6", 7-0.5", 7-0.6" & 9-0.5" STRANDS AND 1", 1-1/4", & 1-3/8" THREADBARS.
2. Min. BENDING RADIUS, Rmin = 22.8 FT.
3. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.

DIMENSIONS [inch [mm]]

SCALE 1:1

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>QUALITY PLAN NUMBER</th>
<th>TOLERANCES</th>
<th>WEIGHT</th>
<th>REV.</th>
<th>DATE</th>
<th>NAME</th>
<th>PART NUMBER</th>
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</thead>
<tbody>
<tr>
<td>2.874</td>
<td>U0004111P</td>
<td>±0.020</td>
<td>0.298</td>
<td>1</td>
<td>01-11-19</td>
<td>S.J.</td>
<td>U00220200</td>
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<td>UNLESS NOTED</td>
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SCALE 1:1

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MATERIAL: POLYPROPYLENE

CELL CLASS RANGE: PP0340B44541 TO PP0340B67884
MATERIAL MEETS FDOT SPECS. 960-2.4.3.

Ø2-3/8" (59mm) DUCT COUPLER

DIMENSIONS: INCH [mm]

[0] 3.031 [77.0]
[2] 2.871 [72.9]

[1] 1.800 [45.7]
[2] 1.600 [40.6]
[3] 5.200 [132.1]

TOLERANCES: ±0.005 UNLESS NOTED
WEIGHT: 0.23 LBS.
SCALE: 2:1

DRAWING NUMBER: U00220205
PART NUMBER: U00220205

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
COLOR

SLEEVE WIDTH

SLEEVE SIZE

ADHESIVE (thickness as supplied)

BACKING (thickness as supplied)

CONFIGURATION

STANDARD ORDERING OPTIONS

<table>
<thead>
<tr>
<th>COLOR</th>
<th>Sleeves Width</th>
<th>Sleeves Size</th>
<th>Adhesive</th>
<th>Backing</th>
</tr>
</thead>
<tbody>
<tr>
<td>YE - YELLOW, BK - BLACK</td>
<td>300mm, 450mm, 600mm, 900mm (12&quot;, 18&quot;, 24&quot;, 36&quot;)</td>
<td>63mm - 315mm (2-1/2&quot; - 12&quot;)</td>
<td>A - 0.75 mm (30 mils)</td>
<td>L - 0.80 mm (31 mils)</td>
</tr>
</tbody>
</table>

TUBULAR SLEEVE | TUBULAR SLEEVE DIAMETER

<table>
<thead>
<tr>
<th>AS SUPPLIED</th>
<th>FULLY RECOVERED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA 63-YYY YE</td>
<td>3.5&quot; [90mm]</td>
</tr>
<tr>
<td>PLA 90-YYY YE</td>
<td>4.8&quot; [120mm]</td>
</tr>
<tr>
<td>PLA 115-YYY BK</td>
<td>5.5&quot; [145mm]</td>
</tr>
<tr>
<td>PLA 125-YYY YE</td>
<td>6.3&quot; [160mm]</td>
</tr>
<tr>
<td>PLA 150-YYY BK</td>
<td>7.5&quot; [190mm]</td>
</tr>
<tr>
<td>PMA 90/30-YYY BK</td>
<td>3.5&quot; [90mm]</td>
</tr>
<tr>
<td>PMA 120/40-YYY BK</td>
<td>4.7&quot; [120mm]</td>
</tr>
</tbody>
</table>

YYY = SLEEVE WIDTH: 300/450/600/900/1500 (mm)
COLOR: YE = YELLOW, BK = BLACK

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. SELECT ORDER LENGTH AS A MULTIPLE OF THE ACTUAL LENGTH.
3. OTHER COLORS SLEEVE MAY BE AVAILABLE UPON REQUEST.
4. ALWAYS HEAT THE DUCT ENDS FIRST.

PMA - HIGH SHRINK SLEEVE.
PMA - HIGH SHRINK TUBULAR BACKING.

1-1/4" (32mm) MIN.

HEAT SHRINK SLEEVE

HEAT SHRINK SLEEVE

OPTION A

OPTION B

NOTE:
FOLLOW MANUFACTURER’S INSTALLATION INSTRUCTIONS.

DUCT SIZE

<table>
<thead>
<tr>
<th>DUCT SIZE</th>
<th>STRAND SYSTEM</th>
<th>BAR SYSTEM</th>
<th>HEAT SHRINK SLEEVE SIZE</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; x 3&quot; (25mm x 76mm)</td>
<td>4-0.6&quot;</td>
<td>1 3/4&quot;</td>
<td>PLA-63-450 YE</td>
<td>U00044063</td>
</tr>
<tr>
<td>2-3/8&quot; (59mm)</td>
<td>7-0.6&quot;</td>
<td>1&quot;, 1-1/4&quot;, 1-3/8&quot;</td>
<td>PLA-63-450 YE</td>
<td>U00044063</td>
</tr>
<tr>
<td>3&quot; (76mm)</td>
<td>12-0.6&quot;</td>
<td>PMA-90/30-450 BK</td>
<td>U00044030</td>
<td></td>
</tr>
<tr>
<td>3-3/8&quot; (85mm)</td>
<td>1 3/4&quot;</td>
<td>PMA-120/40-450 BK</td>
<td>U00044040</td>
<td></td>
</tr>
<tr>
<td>4&quot; (100mm)</td>
<td>2-1/2&quot;</td>
<td>PLA-90-450 YE</td>
<td>U00044090</td>
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</tr>
<tr>
<td>4&quot; (100mm)</td>
<td>19-0.6&quot;</td>
<td>PLA-115-450 BK</td>
<td>U00044115</td>
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</tr>
<tr>
<td>4-1/2&quot; (115mm)</td>
<td>27-0.6&quot;</td>
<td>PLA-125-450 YE</td>
<td>U00044125</td>
<td></td>
</tr>
<tr>
<td>5-1/8&quot; (130mm)</td>
<td>31-0.6&quot;, 37-0.6&quot;</td>
<td>PLA-160-450 BK</td>
<td>U00044160</td>
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<tr>
<td>3&quot; SDR 17 HDPE PIPE</td>
<td>1-3/8&quot;</td>
<td>PLA-63-450 YE</td>
<td>U00044063</td>
<td></td>
</tr>
</tbody>
</table>

HEAT SHRINK SLEEVE SIZES FOR INTERNAL GROUTED APPLICATIONS

DIMENSIONS: INCH (mm)

FOR REFERENCE ONLY

REV. | DATE | NAME | BORN |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>06-28-20</td>
<td>S.J.</td>
<td></td>
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</tr>
</tbody>
</table>

SEE TABLE: 00044000

DRAWING NUMBER: 00044000

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100  FAX: 630-739-1405

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