<table>
<thead>
<tr>
<th>Plate Type</th>
<th>Part No</th>
<th>Width, in</th>
<th>Length, in</th>
<th>Thickness, in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Square</td>
<td>B36E22510</td>
<td>7</td>
<td>7.5</td>
<td>1.75</td>
</tr>
<tr>
<td>Rectangular</td>
<td>B36E22610</td>
<td>5</td>
<td>9.5</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTES:**
1. LIFTERS SHALL REFER TO FOOT STANDARD SPECIFICATIONS AND PROJECT SPECIFIC RECOMMENDATIONS FOR TENSION INSTALLATION, STRESSING, AND GRouting.
2. REQUIRED REINFORCEMENT BARS ARE NOT SHOWN ON THIS DRAWING.
3. MAXIMUM ANGULAR ALIGNMENT WHEN USING ANCHOR NUTS.
4. CENTER TO CENTER, END AND EDGE DEPENDS ON THE LOCATION OF THE BAR AND CONCRETE STRENGTH, H2-V2.
5. C/C DISTANCE = 2 X END DISTANCE - 2 X CONCRETE COVER.
6. CIRCUMFERENCE SHOWN ON DRAWING IS NOT INTENDED TO BE COATED.
7. SHADE OF REINFORCEMENT IS NOT SHOWN AND WILL BE INCLUDED WITH THE SHOP DRAWINGS.
8. THRUST BAR TENDONS ARE STRESSED FROM ONE END ONLY.

**CAUTION:**
- Never strain tensions during installation.
- Do not allow bars to become dislodged or struck to tension bar.
- Do not use bars with non-grip heads.
- Failure to heed the warning could cause bar to tip over during installation.

**WARNING:**
- Never install with all available grip heads.
- Do not use bars as ground connections for fixing or as lead in tension bars.
- Do not install where bars will be exposed to the elements.
- Do not use bars with non-grip heads.
- Failure to heed the warning could cause bar to tip over during installation.

**INTERNAL GROUTED SYSTEM FOR 1-3/8" (36mm) THREAD BAR ASSEMBLY**

**SCALE:** 1:12

**DESIGNER:** DSI

**REFERENCES:**
- PT36E220

**DRAWING SHEET:**
- 10 of 10

**DYSIMAG SYSTEMS INTERNATIONAL USA, INC.**
- POST TENSIONING / REINFORCING UNIT
- 300 Marion Drive, Bolingbrook, IL 60440
- Phone: 630-784-1000
RIGHT HAND THREAD

PART NUMBERS
FOR BARE BAR: B36E CUT

SPECIFICATIONS
ASTM A722 TYPE II

PHYSICAL PROPERTIES

EFFECTIVE AREA: 1.58 SQ.IN. (1019 SQ.mm)
ULTIMATE STRENGTH: 150 KSI (1034 N/SQ.mm)
ULTIMATE LOAD: 237 KIPS (1054 KN)
YIELD LOAD: 191.2 KIPS (851 KN)
WEIGHT: 5.56 LBS./FT. (8.27 Kg/m)
MAX. BAR Ø INCL. RIBS: 1.63 IN. (41.4mm)
AVERAGE CORE Ø: 1.40 IN. (35.6mm)
PITCH: 0.709 IN. (18.0mm)
PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE AS12, AS13 OR AS19

NO. 3/8"-16 UNC DRILLED & TAPPED
1.000 [25.4] DEEP, 4x90° PLACES

B.C. Ø4.375 [111.1]

Ø3.094 [78.6] × 7.000 [177.8]

3.094 [78.6]

4.122 [104.8]

2-1/4" x 3/16" WALL MECHANICAL TUBING

"DST" & PART NUMBER (MARKINGS)

3/4" NPT HALF COUPLER
BLACK STEEL

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 U0022020000 FITS OVER TUBING.
PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE AS12, AS13 OR AS19

RECT. BEARING PLATE WITH EXIT PIPE
FOR 1-3/8" THREADBAR

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 U00220200 FITS OVER TUBING.
NOTES:
1. USE 3/8"-16UNC 316L S.S. hex bolts, 3-1/4" long 00 783 w/small dia. washer 00 774.
2. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPMENT.
3. THE NYLON CONFORMS TO ASTM D889, WITH CELL CLASSIFICATION 5-FAD401.
   (ULTIMATE STRENGTH 10,000 PSI W/M, WITH UV STABILIZED ADDIT.)
4. DRILL 1/8" [3.27] HOLE IN PORT HENG USE CAUTION—RECOMMEND USING HOLE
   SAW BIT OR SPADE BIT (BY OTHERS). BE CAREFUL TO PREVENT DAMAGE TO
   THREADS OR CAP.
5. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS.

DESCRIPTION:
BAR GROUT CAP WITH O-RING
FOR ALL 1" & 1-1/4" NUTS AND 1-3/8" ANCHOR NUT

QUALITY CONTROL:
GRADING NUMBER
MATERIAL:
M1800446
20% GLASS FIBER REINFORCED
COLOR: BLACK

NOTES:

DRAWING NUMBER: B36E50700

THIS DRAWING, THE PARTMENTS, ILLUSTRATIONS, DESIGNS, SPECIFICATIONS, AND OTHER CONTENTS ARE THE PROPERTY OF DYNAG-DY SYSTEMS INTERNATIONAL, INC., AND THEY ARE NOT ALLOWED TO BE DUPLICATED IN ANY FORM FOR ANY REASON EXCEPT FROM REASON CONSIDERED TO BE IN THE INTEREST OF THE ORIGINAL OWNER. THEY HAVE TO BE RETURNED UPON REQUEST.
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 (*&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 (*&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>3/8&quot;-16UNC HEX NUT</td>
</tr>
<tr>
<td>6</td>
<td>00 00 778</td>
<td>5/16&quot;-18UNC HEX BOLT, 7/8&quot; LONG, ZINC PLATED</td>
</tr>
<tr>
<td>7</td>
<td>00 00 783</td>
<td>3/8&quot;-16UNC HEX BOLT, 3-1/4&quot; LONG (*&quot; LONG THREAD)</td>
</tr>
<tr>
<td>8</td>
<td>00 00 784</td>
<td>3/8&quot;-16UNC HEX BOLT, 4-1/4&quot; LONG (FULL THREAD)</td>
</tr>
<tr>
<td>9</td>
<td>00 00 789</td>
<td>3/8&quot;-16UNC CARRiAGE BOLT, 4-1/2&quot; LONG</td>
</tr>
<tr>
<td>10</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.

△—PART 00 00 790 ADDED.
1-3/8" GROUTABLE ANCHOR NUTS
FOR THREADBAR GR. 150

THREAD ACCORDING TO TOLERANCE
DRAWING 8341/722
MINOR DIAMETER:
1.429–1.433
(36.30–36.40)

Ø3.150
Ø80,0

3.531
89,7

2.390
60,7

TOLERANCES:
a±0.035
UNLESS NOTED

MATERIAL:
C1045 FORGING
ASTM A291-CF MOD.
NORMALIZED
BHN = 180-220

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

PRESSURE RATED: 150 PSI
1/2" NPT PIPE NIPPLES

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH [mm]

QUALITY PLAN NUMBER:

00 00 678

REV.  DATE  NAME

PART NUMBER:

MATERIAL:
SCH 40
BLACK WELDED STEEL

SCALE: 1:1

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

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3/4" NPT PIPE NIPPLES

LENGTH VARIES

3/4" NPT THREAD TYP.

\[ \varnothing 0.050 \text{ [2.67]} \text{ (NOMINAL)} \]

PRESSURE RATED: 150 PSI

MATERIAL: SCH 40 BLACK WELDED STEEL

SCALE: 1:1

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100  FAX: 630-739-1405
3/4" NPT NYLON PLUG

DIMENSIONS: INCH (mm) FOR REFERENCE ONLY

QUALITY PLAN NUMBER:

WEIGHT
REV. DATE NAME

MATeRIAL: NYLON 6 COLOR: WHITE

SCALE 1:1

PRESSURE RATED: 150 PSI

MATERIAL: NYLON 6 COLOR: WHITE

SCALE 1:1

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

00 00 849

DRAWING NUMBER: 00 00 849

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1/2" NPT BALL VALVE

NOTE:
PRESSURE RATED: 150 PSI.
3/4" NPT BALL VALVE

NOTE:
PRESSURE RATED: 150 PSI.
MATERIAL: POLYPROPYLENE

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

NOTES:

1. STANDARD FIT FOR 5-0.5", 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.
△ 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]
mm FOR REFERENCE ONLY
QUALITY PLAN NUMBER: QS00220006P

TOLERANCES:
±0.05 UNLESS NOTED

WEIGHT
0.23 LBS.

REV. DATE NAME
1 01-11-19 S.I.

MATERIAL:
SEE ABOVE

SCALE
2:3

PART NUMBER:
U00220205

DRAWING NUMBER:
U00220205

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

- P - TUBULAR
- L - 3M™ ADHESIVE

STANDARD ORDERING OPTIONS
- YE - YELLOW, BK - BLACK
- 300mm, 450mm, 600mm, 900mm (12", 18", 24", 36")
- 63mm -315mm (2-1/2" - 12")
- A - 0.75 mm (30 mils)
- L - 0.80 mm (31 mils)
- P - TUBULAR

TUBULAR SLEEVE
- PLA 63-YY YE
- PLA 90-YY YE
- PLA 115-YY BK
- PLA 125-YY YE
- PLA 160-YY BK
- PMA 90/30-YY YE

TUBULAR SLEEVE DIAMETER
- AS SUPPLIED
- FULLY RECOVERED

PMA - HIGH SHRINK SLEEVE
- 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. 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.

NOTE:
- FOLLOW MANUFACTURER’S INSTALLATION INSTRUCTIONS.

CORR. DUCT SIZE | STRAND SYSTEM | BAR SYSTEM | HEAT SHRINK SLEEVE SIZE | PART NUMBER
--- | --- | --- | --- | ---
1" x 3" (25mm x 76mm) | 4-0.6" | 1" | PLA-63-450 YE | U0004063
2-3/8" (59mm) | 7-0.6" | 1", 1-1/4", 1-3/8" | PLA-63-450 YE | U0004063
3" (76mm) | 12-0.6" | 3/4" | PLA-90-450 YE | U0004090
3-3/8" (85mm) | 12-0.6" | 3/4" | PLA-90-450 YE | U0004090
4" (100mm) | 2-1/2" | 3/4" | PLA-90-450 YE | U0004090
4" (100mm) | 19-0.6" | 3/4" | PLA-115-450 BK | U0004115
4-1/2" (115mm) | 27-0.6" | 3/4" | PLA-125-450 YE | U0004125
5-1/8" (130mm) | 31-0.6", 37-0.6" | 3/4" | PLA-160-450 BK | U0004160

HEAT SHRINK SLEEVE SIZES FOR INTERNAL GROUTED APPLICATIONS

REV. DATE NAME ECN

PART NUMBERS:

DYS1
DYSWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405