### Plate Type

<table>
<thead>
<tr>
<th>Plate Type</th>
<th>Part No.</th>
<th>Width</th>
<th>Length</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangular</td>
<td>80602700</td>
<td>12&quot;</td>
<td>14&quot;</td>
<td>2.5&quot;</td>
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</table>

### END DISTANCE

- E = End Distance
- C = Center to Center Distance
- EZ = Edge Distance

### Minimum Diameters, in

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Minimum Diameter</th>
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<tbody>
<tr>
<td>3/4&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>1&quot;</td>
<td>2.5</td>
</tr>
<tr>
<td>1.25&quot;</td>
<td>3</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>3.5</td>
</tr>
<tr>
<td>1.75&quot;</td>
<td>4</td>
</tr>
<tr>
<td>2&quot;</td>
<td>4.5</td>
</tr>
</tbody>
</table>

### Plate Thickness

- 0.125" (1/8"
- 0.250" (5/32"
- 0.375" (3/32"
- 0.500" (5/32"
- 0.625" (9/32"
- 0.750" (1"
- 0.875" (1"
- 1.000" (1"

### Material List

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80602700</td>
<td>3/4&quot; Mild Steel Plate</td>
</tr>
<tr>
<td>80602701</td>
<td>1&quot; Mild Steel Plate</td>
</tr>
<tr>
<td>80602702</td>
<td>1.25&quot; Mild Steel Plate</td>
</tr>
<tr>
<td>80602703</td>
<td>1.5&quot; Mild Steel Plate</td>
</tr>
<tr>
<td>80602704</td>
<td>1.75&quot; Mild Steel Plate</td>
</tr>
<tr>
<td>80602705</td>
<td>2&quot; Mild Steel Plate</td>
</tr>
</tbody>
</table>

### Cut-Out Details

- 0.0625" (1/16"
- 0.125" (1/8"
- 0.250" (5/32"
- 0.375" (3/32"
- 0.500" (5/32"
- 0.625" (9/32"
- 0.750" (1"
- 0.875" (1"
- 1.000" (1"

### Internal Grouted System for 2-1/2" (68mm) Threaded Assembly

1. **WARNING:** Read and comply with all applicable safety and operating instructions and warnings for threaded stressing before starting any work or operation.
2. **CAUTION:** When pressurizing grout caps, do not stand behind the system.
3. **NOTES:**
   - Users shall refer to Foot Standard Specifications and Project Specific Specifications for details.
   - All grout is pre-packed.

### Internal Grouted System Diagram

- 4" Corr. PP Duct
- 4" Duct
- Heat Shrink Sleeve (U020040G, Type C, Cut to 4.4" Width Field)
- 2-1/2" Threadbar
- Galvanized Bearing Plate with Mechanical Tubing and Threads
- Water Washers
- Nut (U965440)
- Pin (U965420)
RIGHT-HAND THREAD

PART NUMBERS
FOR BARE BAR: B66E CUT

SPECIFICATIONS
ASTM A722 TYPE II (STRENGTH REQUIREMENTS)

PHYSICAL PROPERTIES
EFFECTIVE AREA: 5.16 SQ.IN. NOM. (3331mm²)
ULTIMATE STRENGTH: 150 KSI (1035 N/mm²)
ULTIMATE LOAD: 774 KIPS (3442 kN)
YIELD LOAD: 619.2 KIPS (2754 kN)
WEIGHT: 18.2 LBS./FT. (27.1 kg/m)
MAX. MAJOR Ø: 2.790 IN. (70.87mm)
PITCH: 0.315 IN. (8mm)
NOTES:

1. PLATE & PIPE GALVANIZED ACCORDING TO ASTM A123 AFTER WELDING.
2. DIMENSIONS AND TOLERANCES APPLY TO UNCOATED PLATES.
3. ENSURE THREADABILITY OF TAPPED HOLES IN COATED PLATES.
4. 100mm CORR. PP DUCT, U00220400 & 4" SDR HDPE PIPE, U00055119
   FITS OVER TUBING.

PLATE MATERIAL: ASTM A36
MECHANICAL TUBE MATERIAL
SHALL BE A512, A513 OR A519

SQUARE BEARING PLATE WITH EXIT PIPE
FOR 2 1/2" THREADBAR

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT
PHONE: 630-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405
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>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 (1&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 00 785</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.

DIMENSIONS: INCH
QUALITY PLAN NUMBER:

REV. | DATE  | NAME | NAME |
-----|-------|------|------|
00 | 00/19 | S.J. |      |

SCALE: 1:3
DRAWING NUMBER: 00 00 770

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405
GROUTABLE SPHERICAL WASHER
FOR 2-1/2" THREADBAR

DIMENSIONS: INCH [mm]
mm FOR REFERENCE ONLY

QUALITY PLAN NUMBER: QBU0014010C

TOLERANCE:
±0.040
UNLESS NOTED

WEIGHT
5.6
LBS.

REV.
1:1

DATE: 01-07-19
DRAWG: G. MALECKI
CHK: S.Y.
APP: S.E.

MATERIAL:
ASTM A536
100-70-03

HEAT CODE MARKING

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

DRAWING NUMBER:
B66E20210
66mm HEX NUT, FULL LOAD

THREAD FORM ACC. TO
TO DWG. 8341/902

DIMENSIONS: INCH [mm]
4.000 [101.6] HEX
R .500 MAX

ø2.617 [ø66.5]

5.000 [127.0]

MATERIAL:
C1035 CD SEAMLESS
MECHANICAL TUBE
ASTM A519

TOLERANCES:
±0.003
UNLESS NOTED

WEIGHT
~1.1 LBS.

SCALE
1:2

QUALITY PLAN NUMBER:
GB00207026

PART NUMBERS:
B66E20251

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
PRESSURE RATED: 150 PSI

1/2" NPT NYLON PLUG

MATERIAL:
NYLON 6
COLOR: WHITE

SCALE: 1:1

DIMENSIONS: INCH (mm)

WEIGHT
.006 LBS.

REV. DATE NAME ECN

PART NUMBER: 00 00 649

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.

0.840 [21.3]
(NOMINAL)

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

PRESSURE RATED: 150 PSI

DIMENSIONS: INCH (mm)

QUALITY PLAN NUMBER: C000000020P

REV. DATE NAME FORM PART NUMBER: 00 00 878

3/4" NPT THREAD TYP.

SCALE 1:1

MATERIAL: SCH 40 BLACK WELDED STEEL

DYSWIDAG-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 NYLON PLUG

DIMENSIONS: INCH (mm)

QUALITY PLAN NUMBER:

WEIGHT

REV. DATE NAME

PART NUMBER:

MATERIAL:
NYLON 6
COLOR: WHITE

SCALE
1:1

PRESSURE RATED: 150 PSI

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
320 MARMON DRIVE - BOLINGBROOK, IL 60440
PHONE: 630-739-1100 FAX: 630-739-1405
NOTE:
PRESSURE RATED: 150 PSI.

1/2" NPT BALL VALVE

DIMENSIONS: INCH (mm)
mm FOR REFERENCE ONLY

WEIGHT
0.138 LBS.

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

MATERIAL: PVC
SCALE 1:1

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

NOTE:
PRESSURE RATED: 150 PSI.
4" (100mm) CORRUGATED PP DUCT

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

NOTES:
1. STANDARD FIT FOR 19-0.6" & 27-0.5" STRANDS AND 2-1/2" THREADBAR.
2. Min. BENDING RADIUS, Rmin = 25 FT.
3. DUCT IS DELIVERED IN STRAIGHT SECTIONS AND IS NOT INTENDED TO BE COILED.
MATERIAL: POLYPROPYLENE
CELL CLASS RANGE: PP0340844541 TO PP0340B67884
MATERIAL MEETS FDOT SPECS. 960-2.4.3.

Ø4" (100mm) DUCT COUPLER
**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

**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.

---

**DIMENSIONS & ORDERING INFO**

- **P** - Count
- **L** - Length
- **A** - Adhesive
- **XXX** - Color
- **YYY** - Sleeve Width
- **ZZZ** - Sleeve Size
- **COLOR**
- **SLEEVE WIDTH**
- **SLEEVE SIZE**
- **ADHESIVE (thickness as supplied)**
- **BACKING (thickness as supplied)**
- **CONFIGURATION**

**TUBULAR SLEEVE**

<table>
<thead>
<tr>
<th>TUBULAR SLEEVE</th>
<th>TUBULAR SLEEVE DIAMETER</th>
<th>AS SUPPLIED</th>
<th>FULLY RECOVERED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLA 63-YYY YE</td>
<td>3.5&quot; [90mm]</td>
<td>2.5&quot; [63mm]</td>
<td></td>
</tr>
<tr>
<td>PLA 90-YYY YE</td>
<td>4.8&quot; [120mm]</td>
<td>3.3&quot; [81mm]</td>
<td></td>
</tr>
<tr>
<td>PLA 115-YYY BK</td>
<td>5.5&quot; [145mm]</td>
<td>3.8&quot; [90mm]</td>
<td></td>
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<tr>
<td>PLA 125-YYY YE</td>
<td>6.3&quot; [160mm]</td>
<td>4.3&quot; [100mm]</td>
<td></td>
</tr>
<tr>
<td>PLA 160-YYY BK</td>
<td>7.5&quot; [190mm]</td>
<td>5.2&quot; [130mm]</td>
<td></td>
</tr>
<tr>
<td>PMA 90/30-YYY YE</td>
<td>3.5&quot; [90mm]</td>
<td>1.2&quot; [30mm]</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:**

Follow manufacturer's installation instructions.

**HEAT SHRINK SLEEVE SIZES FOR INTERNAL GRouted APPLICATIONS**

<table>
<thead>
<tr>
<th>CORR. 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></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>1 3/4&quot;</td>
<td></td>
<td>PMA-90/30-450 YE</td>
<td>U00044030</td>
</tr>
<tr>
<td>3-3/8&quot; (85mm)</td>
<td>12-0.6&quot;</td>
<td></td>
<td>PLA-90-450 YE</td>
<td>U00044090</td>
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<tr>
<td>4&quot; (100mm)</td>
<td>2-1/2&quot;</td>
<td></td>
<td>PLA-90-450 YE</td>
<td>U00044090</td>
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<tr>
<td>4&quot; (100mm)</td>
<td>19-0.6&quot;</td>
<td></td>
<td>PLA-115-450 BK</td>
<td>U00044115</td>
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<tr>
<td>4-1/2&quot; (115mm)</td>
<td>27-0.6&quot;</td>
<td></td>
<td>PLA-125-450 YE</td>
<td>U00044125</td>
</tr>
<tr>
<td>5-1/8&quot; (130mm)</td>
<td>31-0.6&quot;, 37-0.6&quot;</td>
<td></td>
<td>PLA-160-450 BK</td>
<td>U00044160</td>
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**REV. DATE NAME ECRN**

<table>
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<tr>
<th>SCALE</th>
<th>NT</th>
<th>PART NUMBERS:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U00044000</td>
<td>SEE TABLE ABOVE</td>
</tr>
</tbody>
</table>

**DATE:** 07-31-19
**Dwg.:** G. Malek
**Chk.:** S.J.
**App.:** S.J.

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