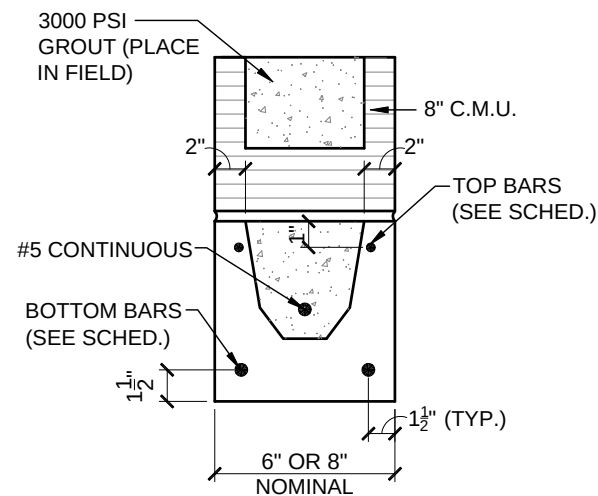




TYPICAL LINTEL SECTION  
(6" OR 8"x16" LINTEL IS SHOWN)

GENERAL NOTES:

### ENGINEERING SPECIFICATIONS:

- 1 SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE LOADS.  
2 DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY  
CALCULATING MAXIMUM RESISTING MOMENT AND SHEAR AT  $d$  DISTANCE AWAY FROM THE  
FACE OF THE SUPPORT.  
3 SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF POUND PER LINEAR FOOT.

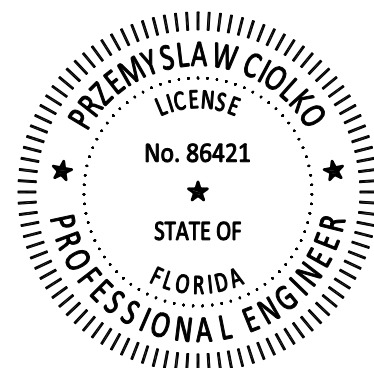
GENERAL NOTES:

## 1.) CODES

- 11 FLORIDA BUILDING CODE 1<sup>st</sup> EDITION, 2020 RESIDENTIAL SECTIONS R402.2 & R606.  
12 FLORIDA BUILDING CODE, 1<sup>st</sup> EDITION, 2020 BUILDING SECTIONS 1901.2 & 2107.  
13 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).  
14 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16).  
15 SPECIFICATIONS REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16).  
16 AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND  
OTHER STRUCTURES (ASCE 7-16).

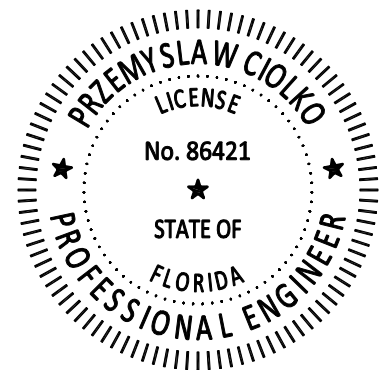
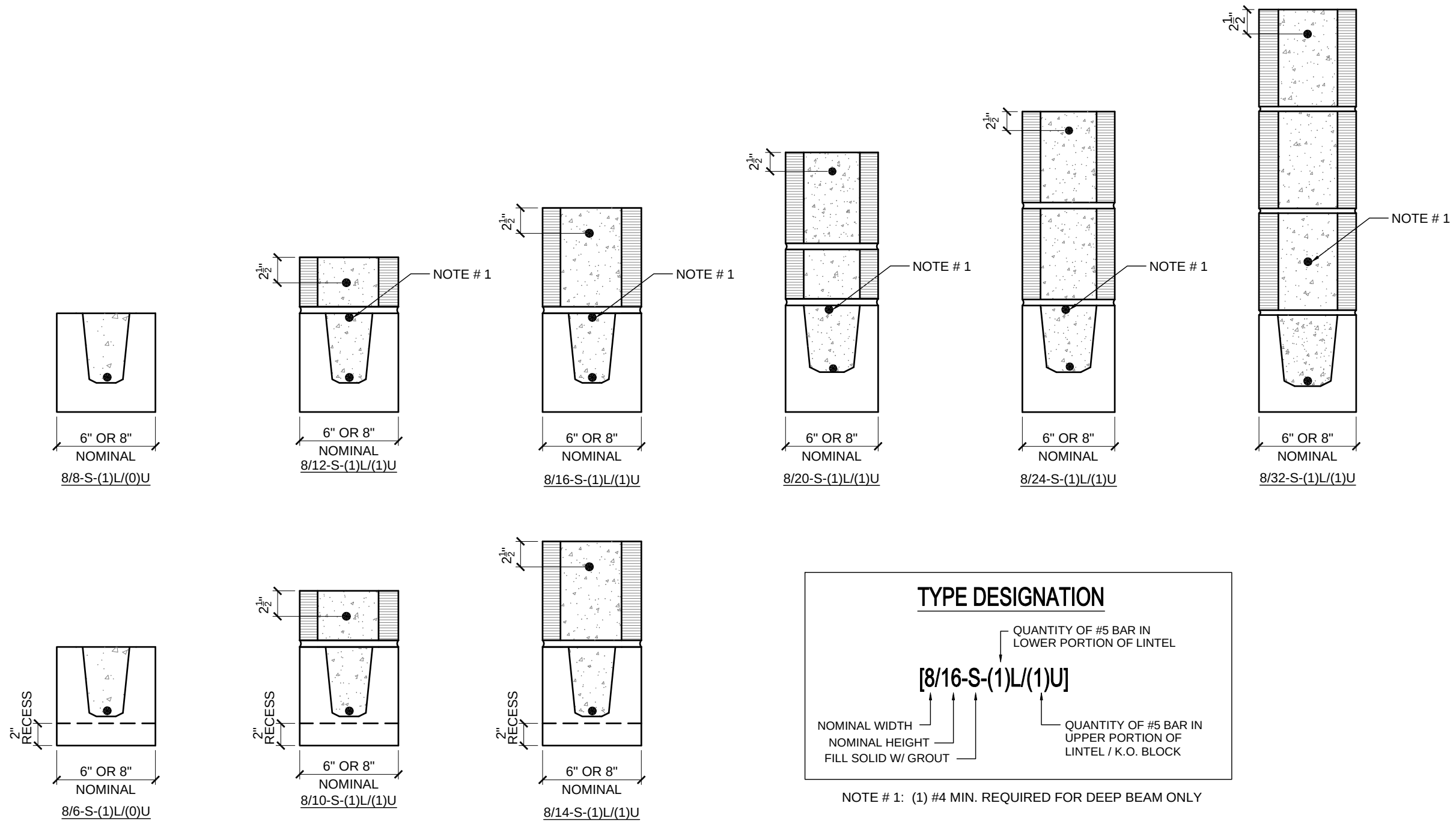
- 2.) CONCRETE:

- 2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS.
  - 2.1.1 PRE-CAST WITH STANDARD REINFORCEMENT - 5,000PSI
  - 2.1.2 GROUT PER ASTM C416  $f_c = 3,000$ PSI WITH MAXIMUM 3/8" AGGREGATE AND 8" TO 11" SLUMP.
  - 2.2 REINFORCING BARS:
  - 2.2.1 STEEL PLACED IN PRE-CAST LINTEL AT TIME OF FABRICATION ASTM A615 (GRADE 60).
  - 2.2.2 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED IN FIELD) ASTM A615 (GRADE 40).
  - 2.3 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
  - 2.4 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 3) MASONRY:
- 3.1 CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90, NORMAL WEIGHT WITH MINIMUM NET AREA COMPRESSIVE STRENGTH 2,000PSI.
  - 3.2 MORTAR SHALL CONFORM TO ASTM C-270 TYPE "M" OR 'S'.
  - 3.3 FULL MORTAR JOINTS ARE REQUIRED.
  - 3.4 MINIMUM AGGREGATE 28-DAY COMPRESSIVE STRENGTH OF CMU AND MORTAR SHALL NOT BE LESS THAN  $f_m = 2,000$  PSI. MASONRY STRENGTH SHALL BE ESTABLISHED BY THE 'UNIT STRENGTH METHOD' OR ALTERNATIVELY BY THE 'FRISM TEST METHOD' WHERE UNIT STRENGTH METHOD REQUIREMENTS HAVE NOT BEEN MET.



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|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                       |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>P.O. BOX 3400<br/>Apollo Beach<br/>Florida 33572<br/>Phone: 813.645.0166<br/>Fax: 813.645.9698<br/>www.danscoengineering.com<br/>CA 25948</p> | <p>GENERAL NOTES &amp; DETAILS<br/>6" / 8" LINTEL</p>                                                                                                                                                                                 |                                                                                                                                            |
|                                                                                                                                                                                                                                        |  <p>Concrete<br/>Precast<br/>Products, Inc</p> <p>2033 N.E. 27th Avenue<br/>Gainesville, FL 32609<br/>(352) 372-0953<br/>Fax: (352) 378-4611</p> |                                                                                                                                            |
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|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                       | <p>SHT. NO. SK1 of 8</p>                                                                                                                   |



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|                                                                                                                                                                             |                                                                                                                                     |                                          |                                                                                                                                 |
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| <br>© 2020 THESE DRAWINGS AND DESIGNS ARE THE JOINT PROPERTY OF DANSKO ENGINEERING, LLC AND THE CLIENT ON THIS PROJECT. ANY REPRODUCTION OR UNAUTHORIZED USE IS PROHIBITED. | P.O. BOX 3400<br>Apollo Beach<br>Florida 33572<br>Phone: 813.645.0166<br>Fax: 813.645.9698<br>www.danscoengineering.com<br>CA 25948 | PRECAST LINTEL DETAILS<br>6" / 8" LINTEL |                                                                                                                                 |
|                                                                                                                                                                             | <br>2033 N.E. 27th Avenue<br>Gainesville, FL 32609<br>(352) 372-0953<br>Fax: (352) 378-4611                                         | JOB NO.: 401777                          | <input type="checkbox"/> SAMUEL A. GREENBERG, P.E. #34245<br><input checked="" type="checkbox"/> PRZEMYSŁAW CIOLKO, P.E. #86421 |

| LINTEL       |            | 6" LINTEL SAFE GRAVITY LOADS (PLF) |               |            |             |             |             |             |             |
|--------------|------------|------------------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                         | BOTTOM REINF. | 6/8-S-(0)L | 6/12-S-(0)L | 6/16-S-(0)L | 6/20-S-(0)L | 6/24-S-(0)L | 6/32-S-(0)L |
|              |            |                                    |               | 6/8-S-(1)L | 6/12-S-(1)L | 6/16-S-(1)L | 6/20-S-(1)L | 6/24-S-(1)L | 6/32-S-(1)L |
| 3'-6"        | 2'-2"      | None                               | (2) # 3       | 2162       | 5204        | 4465*       | 5578*       | 6695*       | 8930*       |
|              |            |                                    |               | 2162       | 5204        | 4465*       | 5578*       | 6695*       | 8930*       |
| 4'-8"        | 3'-4"      | None                               | (2) # 3       | 1342       | 2710        | 4297        | 5554        | 4345*       | 5795*       |
|              |            |                                    |               | 1342       | 2710        | 4791        | 9319        | 4345*       | 5795*       |
| 5'-4"        | 4'-0"      | None                               | (2) # 3       | 1101       | 2122        | 3216        | 4157        | 5000        | 4838*       |
|              |            |                                    |               | 1101       | 2122        | 3475        | 5819        | 10000       | 4838*       |
| 7'-6"        | 6'-2"      | (2) # 2                            | (2) # 4       | 709        | 1258        | 1849        | 2093        | 2570        | 3525        |
|              |            |                                    |               | 709        | 1258        | 1849        | 2715        | 3878        | 8221        |
| 8'-0"        | 6'-8"      | (2) # 3                            | (2) # 4       | 651        | 1145        | 1663        | 2422        | 3373        | 5447        |
|              |            |                                    |               | 651        | 1145        | 1663        | 2422        | 3373        | 6941        |
| 8'-8"        | 7'-4"      | (2) # 3                            | (2) # 4       | 587        | 1022        | 1465        | 2017        | 2727        | 4397        |
|              |            |                                    |               | 587        | 1022        | 1465        | 2017        | 2727        | 5053        |
| 9'-4"        | 8'-0"      | (2) # 3                            | (2) # 5       | 543        | 931         | 1317        | 1788        | 2375        | 4167        |
|              |            |                                    |               | 543        | 931         | 1317        | 1788        | 2375        | 4167        |
| 10'-4"       | 9'-0"      | (2) # 3                            | (2) # 5       | 477        | 811         | 1133        | 1515        | 1974        | 3273        |
|              |            |                                    |               | 477        | 811         | 1133        | 1515        | 1974        | 3273        |
| 13'-4"       | 12'-0"     | (2) # 3                            | (2) # 5       | 348        | 581         | 793         | 1031        | 1301        | 1975        |
|              |            |                                    |               | 348        | 581         | 793         | 1031        | 1301        | 1975        |
| 15'-8"       | 14'-4"     | (2) # 4                            | (2) # 6       | 287        | 474         | 641         | 823         | 1024        | 1502        |
|              |            |                                    |               | 287        | 474         | 641         | 823         | 1024        | 1502        |
| 17'-4"       | 16'-0"     | (2) # 4                            | (2) # 6       | 243        | 417         | 561         | 716         | 885         | 1277        |
|              |            |                                    |               | 254        | 417         | 561         | 716         | 885         | 1277        |

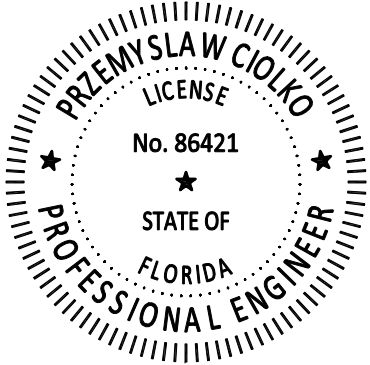
\* LINTEL MEETS DEEP BEAM CRITERIA

| LINTEL       |            | 6" LINTEL SAFE UPLIFT LOADS (PLF) |               |            |             |             |             |             |             | LATERAL LOADS (PLF) |       |
|--------------|------------|-----------------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                        | BOTTOM REINF. | 6/8-S-(1)U | 6/12-S-(1)U | 6/16-S-(1)U | 6/20-S-(1)U | 6/24-S-(1)U | 6/32-S-(1)U | 6/8-P               | 6/8-S |
| 3'-6"        | 2'-2"      | None                              | (2) # 3       | 1919       | 4629        | 10000       | 10000       | 10000       | 10000       | 448                 | 992   |
| 4'-8"        | 3'-4"      | None                              | (2) # 3       | 1219       | 2529        | 4471        | 7249        | 9005        | 10000       | 239                 | 529   |
| 5'-4"        | 4'-0"      | None                              | (2) # 3       | 1008       | 2002        | 3293        | 5445        | 6764        | 10000       | 179                 | 397   |
| 7'-6"        | 6'-2"      | (2) # 2                           | (2) # 4       | 646        | 1193        | 1774        | 2532        | 3292        | 4578        | 179                 | 414   |
| 8'-0"        | 6'-8"      | (2) # 3                           | (2) # 4       | 596        | 1091        | 1603        | 2253        | 2877        | 4000        | 168                 | 447   |
| 8'-8"        | 7'-4"      | (2) # 3                           | (2) # 4       | 540        | 980         | 1421        | 1960        | 2435        | 3386        | 131                 | 378   |
| 9'-4"        | 8'-0"      | (2) # 3                           | (2) # 5       | 463        | 868         | 1274        | 1680        | 2087        | 2903        | 108                 | 424   |
| 10'-4"       | 9'-0"      | (2) # 3                           | (2) # 5       | 375        | 703         | 1032        | 1361        | 1691        | 2351        | N.R.                | 344   |
| 13'-4"       | 12'-0"     | (2) # 3                           | (2) # 5       | 221        | 416         | 610         | 805         | 1000        | 1391        | N.R.                | 180   |
| 15'-8"       | 14'-4"     | (2) # 4                           | (2) # 6       | 159        | 299         | 438         | 579         | 719         | 1000        | N.R.                | 128   |
| 17'-4"       | 16'-0"     | (2) # 4                           | (2) # 6       | 121        | 243         | 357         | 471         | 585         | 813         | N.R.                | 87    |

N.R. NOT RECOMMENDED

| LINTEL       |            | 6" RECESS LINTEL SAFE GRAVITY LOADS (PLF) |               |            |             |             |
|--------------|------------|-------------------------------------------|---------------|------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                                | BOTTOM REINF. | 6/6-S-(0)L | 6/10-S-(0)L | 6/14-S-(0)L |
|              |            |                                           |               | 6/6-S-(1)L | 6/10-S-(1)L | 6/14-S-(1)L |
| 3'-6"        | 2'-2"      | None                                      | (2) # 3       | 1153       | 3178        | 6903        |
|              |            |                                           |               | 1153       | 3178        | 7441        |
| 4'-0"        | 2'-8"      | None                                      | (2) # 3       | 942        | 2420        | 4866        |
|              |            |                                           |               | 942        | 2420        | 4866        |
| 4'-4"        | 3'-0"      | None                                      | (2) # 3       | 839        | 2087        | 3950        |
|              |            |                                           |               | 839        | 2087        | 3950        |
| 4'-6"        | 3'-2"      | None                                      | (2) # 3       | 795        | 1952        | 3609        |
|              |            |                                           |               | 795        | 1952        | 3609        |
| 4'-8"        | 3'-4"      | None                                      | (2) # 3       | 756        | 1833        | 3322        |
|              |            |                                           |               | 756        | 1833        | 3322        |

| LINTEL       |            | 6" RECESS LINTEL SAFE UPLIFT LOADS (PLF) |               |            |             |             |
|--------------|------------|------------------------------------------|---------------|------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                               | BOTTOM REINF. | 6/6-S-(1)U | 6/10-S-(1)U | 6/14-S-(1)U |
| 3'-6"        | 2'-2"      | None                                     | (2) # 3       | 973        | 2864        | 6624        |
| 4'-0"        | 2'-8"      | None                                     | (2) # 3       | 803        | 2212        | 4461        |
| 4'-4"        | 3'-0"      | None                                     | (2) # 3       | 719        | 1921        | 3663        |
| 4'-6"        | 3'-2"      | None                                     | (2) # 3       | 684        | 1802        | 3363        |
| 4'-8"        | 3'-4"      | None                                     | (2) # 3       | 651        | 1697        | 3108        |



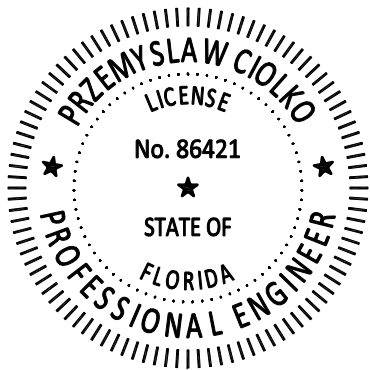
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| <br>P.O. BOX 3400<br>Apollo Beach<br>Florida 33572<br>Phone: 813.645.0166<br>Fax: 813.645.9698<br>www.danscoengineering.com<br>CA 25948 | SAFE GRAVITY & UPLIFT LOADS<br>6" LINTEL & 6" RECESS LINTEL                                                                                                                      |                                                                                                                                 |
|                                                                                                                                                                                                                              | <br>2033 N.E. 27th Avenue<br>Gainesville, FL 32609<br>(352) 372-0953<br>Fax: (352) 378-4611 |                                                                                                                                 |
| JOB NO.:                                                                                                                                                                                                                     | 401777                                                                                                                                                                           | <input type="checkbox"/> SAMUEL A. GREENBERG, P.E. #34245<br><input checked="" type="checkbox"/> PRZEMYSŁAW CIOLKO, P.E. #86421 |
|                                                                                                                                                                                                                              |                                                                                                                                                                                  | SHT. NO.<br><b>SK3</b> of 8                                                                                                     |

| LINTEL       |            | 8" LINTEL SAFE GRAVITY LOADS (PLF) |               |            |             |             |             |             |             |
|--------------|------------|------------------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                         | BOTTOM REINF. | 8/8-S-(0)L | 8/12-S-(0)L | 8/16-S-(0)L | 8/20-S-(0)L | 8/24-S-(0)L | 8/32-S-(0)L |
|              |            |                                    |               | 8/8-S-(1)L | 8/12-S-(1)L | 8/16-S-(1)L | 8/20-S-(1)L | 8/24-S-(1)L | 8/32-S-(1)L |
| 3'-0"        | 1'-8"      | None                               | (2) #3        | 3859       | 5795*       | 7667*       | 9655*       | 10000*      | 10000*      |
|              |            |                                    |               | 3859       | 5795*       | 7667*       | 9655*       | 10000*      | 10000*      |
| 3'-6"        | 2'-2"      | None                               | (2) #3        | 2881       | 5757        | 5946*       | 7430*       | 8918*       | 10000*      |
|              |            |                                    |               | 2881       | 7219        | 5946*       | 7430*       | 8918*       | 10000*      |
| 4'-0"        | 2'-8"      | None                               | (2) #3        | 2270       | 4279        | 6034        | 6040*       | 7246*       | 9658*       |
|              |            |                                    |               | 2270       | 5183        | 10000       | 6040*       | 7246*       | 9658*       |
| 4'-6"        | 3'-2"      | None                               | (2) #3        | 1879       | 3301        | 4658        | 6015        | 6105*       | 8104*       |
|              |            |                                    |               | 1879       | 4037        | 7450        | 10000       | 6105*       | 8104*       |
| 4'-8"        | 3'-4"      | None                               | (2) #3        | 1776       | 3048        | 4301        | 5556        | 5792*       | 7725*       |
|              |            |                                    |               | 1776       | 3759        | 6748        | 10000       | 5792*       | 7725*       |
| 5'-4"        | 4'-0"      | None                               | (2) #3        | 1340       | 2275        | 3213        | 4153        | 5093        | 6450*       |
|              |            |                                    |               | 1457       | 2943        | 4895        | 8224        | 10000       | 6450*       |
| 5'-10"       | 4'-6"      | None                               | (2) #3        | 1101       | 1875        | 2644        | 3418        | 4193        | 5742*       |
|              |            |                                    |               | 1282       | 2529        | 4055        | 6408        | 9705        | 5742*       |
| 6'-4"        | 5'-0"      | (2) #2                             | (2) #4        | 1178       | 2258        | 3513        | 5083        | 6245        | 8570        |
|              |            |                                    |               | 1178       | 2258        | 3513        | 5323        | 8268        | 10000       |
| 6'-6"        | 5'-2"      | (2) #2                             | (2) #4        | 1166       | 2167        | 3347        | 4808        | 5907        | 8107        |
|              |            |                                    |               | 1166       | 2167        | 3347        | 5015        | 7663        | 10000       |
| 6'-8"        | 5'-4"      | (2) #2                             | (2) #4        | 1098       | 2084        | 3196        | 4554        | 5595        | 7680        |
|              |            |                                    |               | 1098       | 2084        | 3196        | 4741        | 7121        | 10000       |
| 7'-6"        | 6'-2"      | (2) #2                             | (2) #4        | 938        | 1745        | 2604        | 3539        | 4349        | 5972        |
|              |            |                                    |               | 938        | 1745        | 2604        | 3719        | 5281        | 10000       |
| 7'-8"        | 6'-4"      | (2) #3                             | (2) #4        | 912        | 1690        | 2511        | 3376        | 4150        | 5699        |
|              |            |                                    |               | 912        | 1690        | 2511        | 3565        | 5020        | 9974        |
| 8'-0"        | 6'-8"      | (2) #3                             | (2) #4        | 862        | 1589        | 2342        | 3082        | 3789        | 5204        |
|              |            |                                    |               | 862        | 1589        | 2342        | 3291        | 4667        | 9115        |
| 8'-8"        | 7'-4"      | (2) #3                             | (2) #4        | 778        | 1407        | 2001        | 2596        | 3193        | 4387        |
|              |            |                                    |               | 778        | 1418        | 2063        | 2850        | 3889        | 7207        |
| 9'-4"        | 8'-0"      | (2) #3                             | (2) #5        | 718        | 1292        | 1856        | 2527        | 3461        | 5859        |
|              |            |                                    |               | 718        | 1292        | 1856        | 2527        | 3368        | 5944        |
| 10'-4"       | 9'-0"      | (2) #3                             | (2) #5        | 632        | 1125        | 1597        | 2141        | 2800        | 4669        |
|              |            |                                    |               | 632        | 1125        | 1597        | 2141        | 2800        | 4669        |
| 11'-4"       | 10'-0"     | (2) #3                             | (2) #5        | 563        | 995         | 1399        | 1854        | 2391        | 3837        |
|              |            |                                    |               | 563        | 995         | 1399        | 1854        | 2391        | 3837        |
| 12'-0"       | 10'-8"     | (2) #3                             | (2) #5        | 524        | 923         | 1291        | 1701        | 2178        | 3427        |
|              |            |                                    |               | 524        | 923         | 1291        | 1701        | 2178        | 3427        |
| 12'-8"       | 11'-4"     | (2) #3                             | (2) #5        | 490        | 861         | 1198        | 1570        | 1998        | 3066        |
|              |            |                                    |               | 490        | 861         | 1198        | 1570        | 1998        | 3093        |
| 13'-4"       | 12'-0"     | (2) #3                             | (2) #5        | 460        | 806         | 1117        | 1457        | 1932        | 2748        |
|              |            |                                    |               | 460        | 806         | 1117        | 1457        | 1932        | 2817        |
| 14'-0"       | 12'-8"     | (2) #3                             | (2) #5        | 434        | 757         | 1046        | 1359        | 1712        | 2475        |
|              |            |                                    |               | 434        | 757         | 1046        | 1359        | 1712        | 2585        |
| 14'-8"       | 13'-4"     | (2) #4                             | (2) #6        | 412        | 716         | 985         | 1275        | 1600        | 2391        |
|              |            |                                    |               | 412        | 716         | 985         | 1275        | 1600        | 2391        |
| 15'-8"       | 14'-4"     | (2) #4                             | (2) #6        | 377        | 658         | 903         | 1163        | 1452        | 2142        |
|              |            |                                    |               | 380        | 658         | 903         | 1163        | 1452        | 2142        |
| 17'-4"       | 16'-0"     | (2) #4                             | (2) #6        | 263        | 579         | 790         | 1012        | 1255        | 1822        |
|              |            |                                    |               | 290        | 579         | 790         | 1012        | 1255        | 1822        |
| 19'-4"       | 18'-0"     | (2) #4                             | (2) #6        | 157        | 505         | 686         | 874         | 1076        | 1540        |
|              |            |                                    |               | 173        | 505         | 686         | 874         | 1076        | 1540        |
| 20'-0"       | 18'-8"     | (2) #5                             | (2) #6        | 132        | 484         | 656         | 835         | 1027        | 1463        |
|              |            |                                    |               | 140        | 484         | 656         | 835         | 1027        | 1463        |
| 21'-4"       | 20'-0"     | (2) #5                             | (2) #6        | 95         | 372         | 604         | 766         | 939         | 1329        |
|              |            |                                    |               | 105        | 440         | 604         | 766         | 939         | 1329        |
| 22'-0"       | 20'-8"     | (2) #5                             | (2) #6        | 80         | 323         | 580         | 735         | 901         | 1271        |
|              |            |                                    |               | 89         | 382         | 580         | 735         | 901         | 1271        |
| 24'-0"       | 22'-8"     | (2) #5                             | (2) #6        | N.R.       | 214         | 493         | 666         | 800         | 1120        |
|              |            |                                    |               | N.R.       | 253         | 519         | 666         | 800         | 1120        |

N.R. = NOT RECOMMENDED  
\* LINTEL MEETS DEEP BEAM CRITERIA



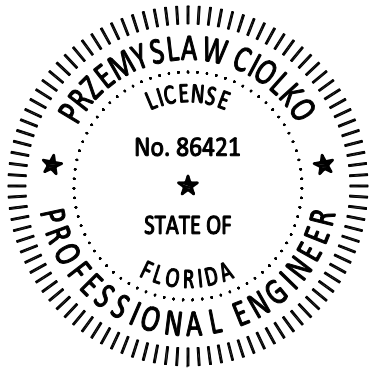
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| LINTEL       |            | 8" LINTEL SAFE UPLIFT LOADS (PLF) |               |            |             |             |             |             |             | LATERAL LOADS (PLF) |       |
|--------------|------------|-----------------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                        | BOTTOM REINF. | 8/8-S-(1)U | 8/12-S-(1)U | 8/16-S-(1)U | 8/20-S-(1)U | 8/24-S-(1)U | 8/32-S-(1)U | 8/8-P               | 8/8-S |
|              |            |                                   |               | 8/8-S-(2)U | 8/12-S-(2)U | 8/16-S-(2)U | 8/20-S-(2)U | 8/24-S-(2)U | 8/32-S-(2)U |                     |       |
| 3'-0"        | 1'-8"      | None                              | (2) #3        | 3389       | 9999        | 10000       | 10000       | 10000       | 10000       | 811                 | 2089  |
|              |            |                                   |               | 3389       | 10000       | 10000       | 10000       | 10000       | 10000       |                     |       |
| 3'-6"        | 2'-2"      | None                              | (2) # 3       | 2539       | 6508        | 10000       | 10000       | 10000       | 10000       | 575                 | 1481  |
|              |            |                                   |               | 2539       | 10000       | 10000       | 10000       | 10000       | 10000       |                     |       |
| 4'-0"        | 2'-8"      | None                              | (2) # 3       | 2038       | 4763        | 7739        | 10000       | 10000       | 10000       | 429                 | 1105  |
|              |            |                                   |               | 2038       | 4763        | 9803        | 10000       | 10000       | 10000       |                     |       |
| 4'-6"        | 3'-2"      | None                              | (2) # 3       | 1701       | 3756        | 5993        | 7894        | 9796        | 10000       | 332                 | 855   |
|              |            |                                   |               | 1701       | 3756        | 6916        | 10000       | 10000       | 10000       |                     |       |
| 4'-8"        | 3'-4"      | None                              | (2) # 3       | 1613       | 3508        | 5541        | 7298        | 9057        | 10000       | 307                 | 791   |
|              |            |                                   |               | 1613       | 3508        | 6298        | 10000       | 10000       | 10000       |                     |       |
| 5'-4"        | 4'-0"      | None                              | (2) # 3       | 1334       | 2401        | 4162        | 5481        | 6803        | 9448        | 230                 | 594   |
|              |            |                                   |               | 1334       | 2401        | 4639        | 7739        | 10000       | 10000       |                     |       |
| 5'-10"       | 4'-6"      | None                              | (2) # 3       | 1182       | 2350        | 3439        | 4530        | 5622        | 7808        | 190                 | 491   |
|              |            |                                   |               | 1182       | 2777        | 3874        | 6101        | 10000       | 10000       |                     |       |
| 6'-4"        | 5'-0"      | (2) # 2                           | (2) # 4       | 1110       | 1975        | 2890        | 3906        | 4724        | 6561        | 333                 | 894   |
|              |            |                                   |               | 1110       | 2115        | 3325        | 5036        | 7760        | 10000       |                     |       |
| 6'-6"        | 5'-2"      | (2) # 2                           | (2) # 4       | 1083       | 1869        | 2736        | 3603        | 4472        | 6211        | 316                 | 847   |
|              |            |                                   |               | 1083       | 2035        | 3175        | 4759        | 7213        | 10000       |                     |       |
| 6'-8"        | 5'-4"      | (2) # 2                           | (2) # 4       | 1048       | 1772        | 2594        | 3416        | 4240        | 5888        | 299                 | 803   |
|              |            |                                   |               | 1048       | 1960        | 3038        | 4511        | 6739        | 10000       |                     |       |
| 7'-6"        | 6'-2"      | (2) # 2                           | (2) # 4       | 802        | 1384        | 2025        | 2663        | 3311        | 4588        | 233                 | 627   |
|              |            |                                   |               | 802        | 1655        | 2499        | 3579        | 5069        | 9101        |                     |       |
| 7'-8"        | 6'-4"      | (2) # 3                           | (2) # 4       | 916        | 1322        | 1934        | 2548        | 3162        | 4382        | 273                 | 742   |
|              |            |                                   |               | 968        | 1605        | 2414        | 3436        | 4830        | 8892        |                     |       |
| 8'-0"        | 6'-8"      | (2) # 3                           | (2) # 4       | 823        | 1209        | 1770        | 2331        | 2893        | 4018        | 249                 | 679   |
|              |            |                                   |               | 823        | 1514        | 2259        | 3184        | 4413        | 7963        |                     |       |
| 8'-8"        | 7'-4"      | (2) # 3                           | (2) # 4       | 746        | 1023        | 1498        | 1973        | 2449        | 3410        | 205                 | 575   |
|              |            |                                   |               | 746        | 1359        | 2002        | 2775        | 3764        | 6731        |                     |       |
| 9'-4"        | 8'-0"      | (2) # 3                           | (2) # 5       | 721        | 877         | 1294        | 1694        | 2099        | 2916        | 175                 | 653   |
|              |            |                                   |               | 721        | 1233        | 1798        | 2460        | 3281        | 5752        |                     |       |
| 10'-4"       | 9'-0"      | (2) # 3                           | (2) # 5       | 639        | 711         | 1040        | 1370        | 1700        | 2362        | 125                 | 529   |
|              |            |                                   |               | 639        | 1083        | 1559        | 2101        | 2751        | 4570        |                     |       |
| 11'-4"       | 10'-0"     | (2) # 3                           | (2) # 5       | 573        | 587         | 859         | 1132        | 1405        | 1952        | 92                  | 437   |
|              |            |                                   |               | 573        | 965         | 1376        | 1834        | 2369        | 3790        |                     |       |
| 12'-0"       | 10'-8"     | (2) # 3                           | (2) # 5       | 536        | 522         | 764         | 1006        | 1249        | 1735        | N.R                 | 389   |
|              |            |                                   |               | 537        | 900         | 1276        | 1691        | 2168        | 3404        |                     |       |
| 12'-8"       | 11'-4"     | (2) # 3                           | (2) # 5       | 479        | 467         | 684         | 900         | 1118        | 1552        | N.R                 | 348   |
|              |            |                                   |               | 505        | 843         | 1190        | 1569        | 1999        | 3073        |                     |       |
| 13'-4"       | 12'-0"     | (2) # 3                           | (2) # 5       | 431        | 420         | 615         | 810         | 1006        | 1397        | N.R                 | 313   |
|              |            |                                   |               | 476        | 793         | 1115        | 1462        | 1854        | 2766        |                     |       |
| 14'-0"       | 12'-8"     | (2) # 3                           | (2) # 5       | 388        | 380         | 557         | 733         | 910         | 1254        | N.R                 | 283   |
|              |            |                                   |               | 451        | 741         | 1048        | 1370        | 1729        | 2502        |                     |       |
| 14'-8"       | 13'-4"     | (2) # 4                           | (2) # 6       | 432        | 346         | 506         | 667         | 827         | 1149        | N.R                 | 447   |
|              |            |                                   |               | 443        | 673         | 989         | 1288        | 1619        | 2275        |                     |       |
| 15'-8"       | 14'-4"     | (2) # 4                           | (2) # 6       | 353        | 302         | 442         | 582         | 723         | 1004        | N.R                 | 357   |
|              |            |                                   |               | 400        | 588         | 867         | 1146        | 1427        | 1988        |                     |       |
| 17'-4"       | 16'-0"     | (2) # 4                           | (2) # 6       | 256        | 246         | 360         | 474         | 588         | 817         | N.R                 | 251   |
|              |            |                                   |               | 291        | 479         | 705         | 933         | 1160        | 1617        |                     |       |
| 19'-4"       | 18'-0"     | (2) # 4                           | (2) # 6       | 169        | 196         | 288         | 379         | 471         | 654         | N.R                 | 169   |
|              |            |                                   |               | 189        | 383         | 564         | 746         | 929         | 1294        |                     |       |
| 20'-0"       | 18'-8"     | (2) # 5                           | (2) # 6       | 161        | 183         | 269         | 354         | 439         | 610         | N.R                 | 168   |
|              |            |                                   |               | 196        | 357         | 537         | 697         | 867         | 1208        |                     |       |
| 21'-4"       | 20'-0"     | (2) # 5                           | (2) # 6       | 141        | 161         | 235         | 310         | 385         | 535         | N.R                 | 131   |
|              |            |                                   |               | 152        | 290         | 462         | 611         | 760         | 1060        |                     |       |
| 22'-0"       | 20'-8"     | (2) # 5                           | (2) # 6       | 126        | 151         | 221         | 291         | 362         | 503         | N.R                 | 116   |
|              |            |                                   |               | 135        | 260         | 434         | 574         | 714         | 995         |                     |       |
| 24'-0"       | 22'-8"     | (2) # 5                           | (2) # 6       | 101        | 134         | 195         | 259         | 321         | 446         | N.R                 | 80    |
|              |            |                                   |               | 108        | 212         | 385         | 509         | 634         | 883         |                     |       |

| LINTEL       |            | 8" RECESS LINTEL SAFE GRAVITY LOADS (PLF) |               |            |             |             |
|--------------|------------|-------------------------------------------|---------------|------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                                | BOTTOM REINF. | 8/6-S-(0)L | 8/10-S-(0)L | 8/14-S-(0)L |
|              |            |                                           |               | 8/6-S-(1)L | 8/10-S-(1)L | 8/14-S-(1)L |
| 3'-6"        | 2'-2"      | None                                      | (2) #3        | 1530       | 4400        | 6931        |
|              |            |                                           |               | 1530       | 4400        | 10000       |
| 4'-0"        | 2'-8"      | None                                      | (2) # 3       | 1250       | 3351        | 5155        |
|              |            |                                           |               | 1250       | 3351        | 6754        |
| 4'-4"        | 3'-0"      | None                                      | (2) # 3       | 1113       | 2851        | 4322        |
|              |            |                                           |               | 1113       | 2890        | 5483        |
| 4'-6"        | 3'-2"      | None                                      | (2) # 3       | 1005       | 2624        | 3979        |
|              |            |                                           |               | 1005       | 2703        | 5010        |
| 4'-8"        | 3'-4"      | None                                      | (2) # 3       | 1003       | 2422        | 3674        |
|              |            |                                           |               | 1003       | 2538        | 4612        |
| 5'-8"        | 4'-4"      | None                                      | (2) # 3       | 764        | 1584        | 2406        |
|              |            |                                           |               | 771        | 1856        | 3115        |
| 6'-8"        | 5'-4"      | (2) # 2                                   | (2) # 4       | 652        | 1491        | 2401        |
|              |            |                                           |               | 652        | 1491        | 2401        |
| 7'-8"        | 6'-4"      | (2) # 3                                   | (2) # 4       | 546        | 1225        | 1919        |
|              |            |                                           |               | 546        | 1225        | 1919        |

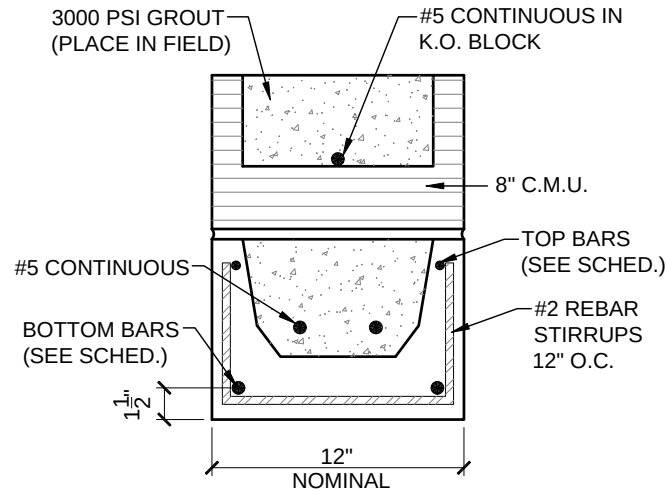
| LINTEL       |            | 8" RECESS LINTEL SAFE UPLIFT LOADS (PLF) |               |            |             |             |
|--------------|------------|------------------------------------------|---------------|------------|-------------|-------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                               | BOTTOM REINF. | 8/6-S-(1)U | 8/10-S-(1)U | 8/14-S-(1)U |
|              |            |                                          |               | 8/6-S-(2)U | 8/10-S-(2)U | 8/14-S-(2)U |
| 3'-6"        | 2'-2"      | None                                     | (2) #3        | 2571       | 3966        | 8716        |
|              |            |                                          |               | 2571       | 3966        | 9261        |
| 4'-0"        | 2'-8"      | None                                     | (2) # 3       | 2063       | 3063        | 6237        |
|              |            |                                          |               | 2063       | 3063        | 6237        |
| 4'-4"        | 3'-0"      | None                                     | (2) # 3       | 1823       | 2660        | 5122        |
|              |            |                                          |               | 1823       | 2660        | 5122        |
| 4'-6"        | 3'-2"      | None                                     | (2) # 3       | 1723       | 2496        | 4701        |
|              |            |                                          |               | 1723       | 2496        | 4701        |
| 4'-8"        | 3'-4"      | None                                     | (2) # 3       | 1633       | 2350        | 4345        |
|              |            |                                          |               | 1633       | 2350        | 4345        |
| 5'-8"        | 4'-4"      | None                                     | (2) # 3       | 1244       | 1742        | 2986        |
|              |            |                                          |               | 1224       | 1742        | 2986        |
| 6'-8"        | 5'-4"      | (2) # 2                                  | (2) # 4       | 1005       | 1358        | 2179        |
|              |            |                                          |               | 1005       | 1348        | 2275        |
| 7'-8"        | 6'-4"      | (2) # 3                                  | (2) # 4       | 708        | 1013        | 1625        |
|              |            |                                          |               | 842        | 1148        | 1837        |



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| <br>P.O. BOX 3400<br>Apollo Beach<br>Florida 33572<br>Phone: 813.645.0166<br>Fax: 813.645.9698<br>www.danscoengineering.com<br>CA 25948 | SAFE GRAVITY & UPLIFT LOADS<br>8" RECESS LINTEL                                             |                   |
|                                                                                                                                         | <br>2033 N.E. 27th Avenue<br>Gainesville, FL 32609<br>(352) 372-0953<br>Fax: (352) 378-4611 |                   |
| JOB NO.:                                                                                                                                | 401777                                                                                      | SHI. NO. SK5 of 8 |
| <input type="checkbox"/> SAMUEL A. GREENBERG, P.E. #34245                                                                               |                                                                                             |                   |
| <input checked="" type="checkbox"/> PRZEMYSŁAW CIOLKO, P.E. #86421                                                                      |                                                                                             |                   |



**TYPICAL LINTEL SECTION**  
(12"x16" LINTEL IS SHOWN)

## GENERAL NOTES:

### ENGINEERING SPECIFICATIONS:

- SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE LOADS.
- DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING MAXIMUM RESISTING MOMENT AND SHEAR AT A DISTANCE AWAY FROM THE FACE OF THE SUPPORT.
- SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF POUND PER LINEAR FOOT.

### GENERAL NOTES:

#### 1) CODES

- FLORIDA BUILDING CODE 7th EDITION, 2020 RESIDENTIAL SECTIONS R402.2 & R606.
- FLORIDA BUILDING CODE, 7th EDITION, 2020 BUILDING SECTIONS 1901.2 & 2101.
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16).
- SPECIFICATIONS REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16).
- AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16).

#### 2) CONCRETE:

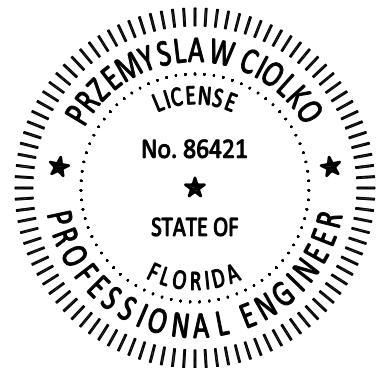
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
  - PRE-CAST WITH STANDARD REINFORCEMENT - 5,000 PSI
  - GROUT PER ASTM C416  $f'_c = 3,000$  PSI WITH MAXIMUM 3/8" AGGREGATE AND 8' TO 11" SLUMP.
- REINFORCING BARS:
  - STEEL PLACED IN PRE-CAST LINTEL AT TIME OF FABRICATION ASTM A615 (GRADE 60).
  - STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED IN FIELD) ASTM A615 (GRADE 40).
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
- CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

#### 3) MASONRY:

- CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90, NORMAL WEIGHT WITH MINIMUM NET AREA COMPRESSIVE STRENGTH 2,000 PSI.
- MORTAR SHALL CONFORM TO ASTM C-270 TYPE 'M' OR 'S'.
- FULL MORTAR JOINTS ARE REQUIRED.
- MINIMUM AGGREGATE 28-DAY COMPRESSIVE STRENGTH OF CMU AND MORTAR SHALL NOT BE LESS THAN  $f'_m = 2,000$  PSI. MASONRY STRENGTH SHALL BE ESTABLISHED BY THE 'UNIT STRENGTH METHOD' OR, ALTERNATIVELY BY THE 'PRISM TEST METHOD' WHERE UNIT STRENGTH METHOD REQUIREMENTS HAVE NOT BEEN MET.

#### 4) STRUCTURAL:

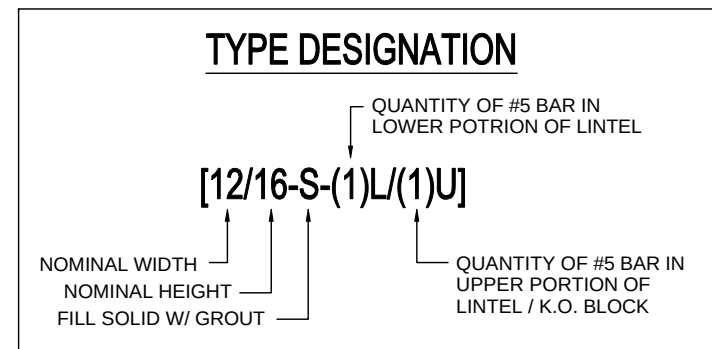
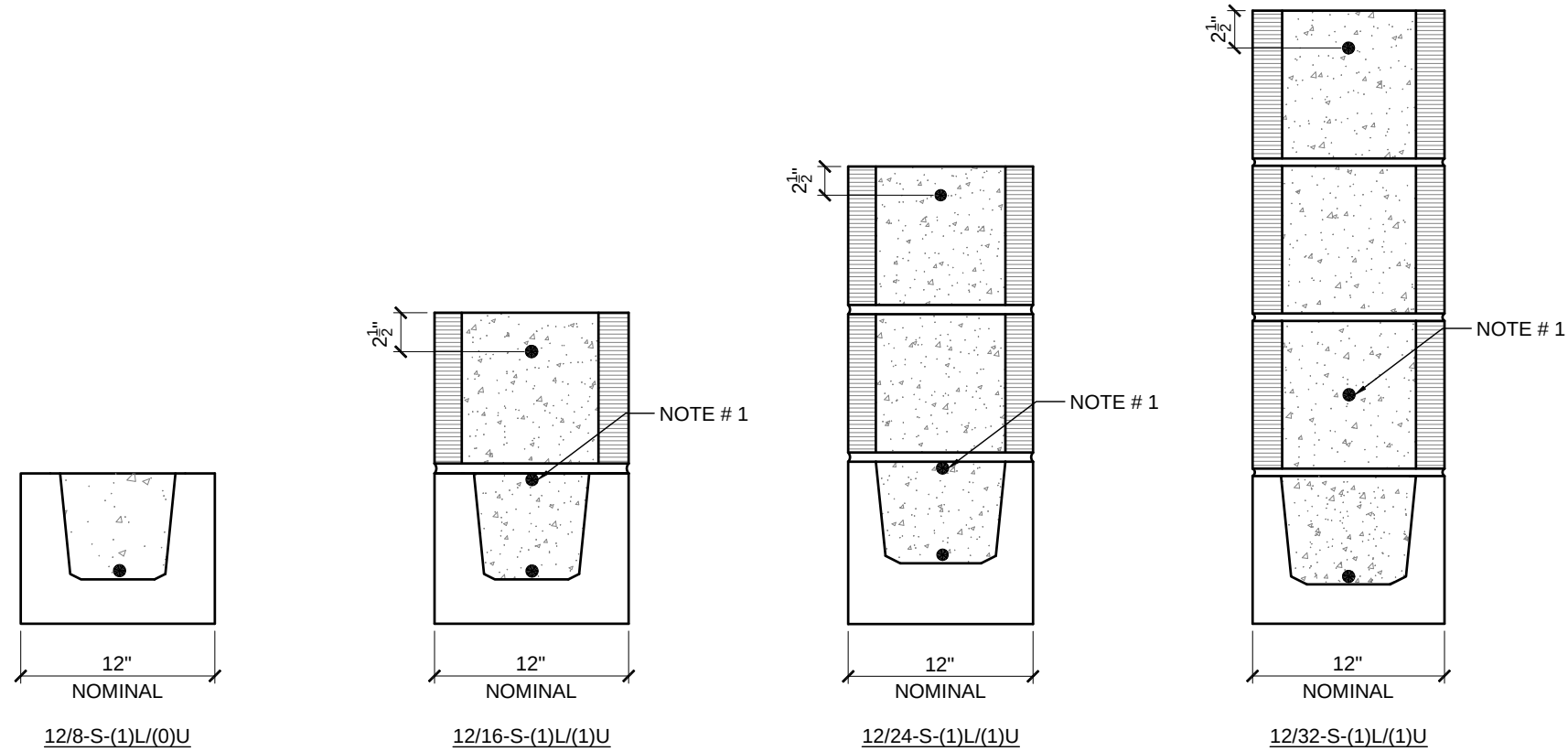
- SAFE LOAD VALUES ARE BASED ON LINTELS HAVING A BEARING OF 8" (WITH A MINIMUM ACCEPTABLE BEARING OF 4" FOR FILLED LINTELS AND 6 1/2" FOR UNFILLED LINTELS IN DIRECTION OF SPAN PER TMS 402-16 SECTION 4.3.4).
- SAFE LOAD VALUES ARE BASED ON RATIONAL DESIGN ANALYSIS PER ACI 318 AND TMS 402.
- LINTELS THAT ARE GREATER THAN 14'-0" CLEAR SPAN MUST BE PROVIDED TEMPORARY SUPPORT AND NOT BE REMOVED UNTIL TWO (2) DAYS AFTER GROUT PLACEMENT.
- FOR LINTEL LENGTH AT 6'-6" OR GREATER, VERTICAL CELL FILLED SOLID WITH GROUT AND MINIMUM ONE (1) #5 VERTICAL REBAR IS REQUIRED AT EACH END OF THE LINTEL.
- FOR COMPOSITE LINTEL HEIGHTS NOT SHOWN, USE SAFE LOAD FROM NEXT LOWER HEIGHT SHOWN.



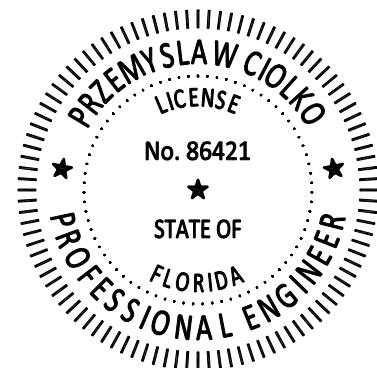
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|                                                                                                                                                                                                                                                                   | <br>2033 N.E. 27th Avenue<br>Gainesville, FL 32609<br>(352) 372-0953<br>Fax: (352) 378-4611 |                                                                                                                                 |                                       |                             |
| JOB NO.: 401777                                                                                                                                                                                                                                                   |                                                                                                                                                                                  | <input type="checkbox"/> SAMUEL A. GREENBERG, P.E. #34245<br><input checked="" type="checkbox"/> PRZEMYSŁAW CIOLKO, P.E. #86421 |                                       | SHT. NO.<br><b>SK6</b> of 8 |



NOTE # 1: (1) #4 MIN. REQUIRED FOR DEEP BEAM ONLY



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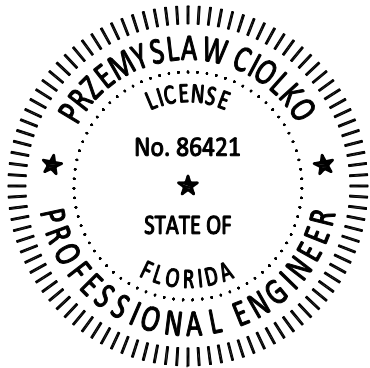
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  <p>P.O. BOX 3400<br/>Apollo Beach<br/>Florida 33572<br/>Phone: 813.645.0166<br/>Fax: 813.645.9698<br/>www.danscoengineering.com<br/>CA 25948</p> |  | <p>PRECAST LINTEL DETAILS<br/>12" LINTEL</p>                                                                                                       |  |
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| <p>JOB NO.: 401777</p>                                                                                                                                                                                                                 |  | <p> <input type="checkbox"/> SAMUEL A. GREENBERG, P.E. #34245<br/> <input checked="" type="checkbox"/> PRZEMYSŁAW CIOLKO, P.E. #86421         </p> |  |
|                                                                                                                                                                                                                                        |  | <p>SHI. NO. SK7 of 8</p>                                                                                                                           |  |

| LINTEL       |            | 12" LINTEL SAFE GRAVITY LOADS (PLF) |               |             |              |              |              |
|--------------|------------|-------------------------------------|---------------|-------------|--------------|--------------|--------------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                          | BOTTOM REINF. | 12/8-S-(2)L | 12/16-S-(2)L | 12/24-S-(2)L | 12/32-S-(2)L |
| 3'-0"        | 1'-8"      | None                                | (2) #3        | 5445        | 10000*       | 10000*       | 10000*       |
| 3'-6"        | 2'-2"      | None                                | (2) # 3       | 4056        | 8916*        | 10000*       | 10000*       |
| 4'-0"        | 2'-8"      | None                                | (2) # 3       | 3227        | 10000        | 10000*       | 10000*       |
| 4'-6"        | 3'-2"      | None                                | (2) # 3       | 2676        | 10000        | 9156*        | 10000*       |
| 4'-8"        | 3'-4"      | None                                | (2) # 3       | 2531        | 10000        | 8690*        | 10000*       |
| 5'-4"        | 4'-0"      | None                                | (2) # 3       | 2079        | 7479         | 10000        | 9675*        |
| 5'-10"       | 4'-6"      | None                                | (2) # 3       | 1831        | 6207         | 10000        | 8615*        |
| 6'-4"        | 5'-0"      | (2) # 2                             | (2) # 4       | 1681        | 5379         | 10000        | 10000        |
| 6'-6"        | 5'-2"      | (2) # 2                             | (2) # 4       | 1622        | 5127         | 10000        | 10000        |
| 6'-8"        | 5'-4"      | (2) # 2                             | (2) # 4       | 1569        | 4898         | 10000        | 10000        |
| 7'-6"        | 6'-2"      | (2) # 2                             | (2) # 4       | 1341        | 3997         | 8892         | 10000        |
| 7'-8"        | 6'-4"      | (2) # 3                             | (2) # 4       | 1302        | 3854         | 8456         | 10000        |
| 8'-0"        | 6'-8"      | (2) # 3                             | (2) # 4       | 1232        | 3596         | 7700         | 10000        |
| 8'-8"        | 7'-4"      | (2) # 3                             | (2) # 4       | 1112        | 3170         | 6526         | 10000        |
| 9'-4"        | 8'-0"      | (2) # 3                             | (2) # 5       | 1031        | 2858         | 5697         | 8683         |
| 10'-4"       | 9'-0"      | (2) # 3                             | (2) # 5       | 907         | 2460         | 4739         | 8311         |
| 11'-4"       | 10'-0"     | (2) # 3                             | (2) # 5       | 808         | 2156         | 4051         | 6837         |
| 12'-0"       | 10'-8"     | (2) # 3                             | (2) # 5       | 753         | 1990         | 3690         | 6109         |
| 12'-8"       | 11'-4"     | (2) # 3                             | (2) # 5       | 704         | 1847         | 3386         | 5517         |
| 13'-4"       | 12'-0"     | (2) # 3                             | (2) # 5       | 661         | 1723         | 3127         | 5026         |
| 14'-0"       | 12'-8"     | (2) # 3                             | (2) # 5       | 572         | 1613         | 2903         | 4613         |
| 14'-8"       | 13'-4"     | (2) # 4                             | (2) # 6       | 595         | 1523         | 2718         | 4273         |
| 15'-8"       | 14'-4"     | (2) # 4                             | (2) # 6       | 516         | 1396         | 2416         | 3829         |
| 17'-4"       | 16'-0"     | (2) # 4                             | (2) # 6       | 359         | 1222         | 2132         | 3258         |
| 19'-4"       | 18'-0"     | (2) # 4                             | (2) # 6       | 213         | 1061         | 1829         | 2754         |
| 20'-0"       | 18'-8"     | (2) # 5                             | (2) # 6       | 180         | 1015         | 1745         | 2617         |
| 21'-4"       | 20'-0"     | (2) # 5                             | (2) # 6       | 128         | 934          | 1597         | 2378         |
| 22'-0"       | 20'-8"     | (2) # 5                             | (2) # 6       | 108         | 898          | 1531         | 2273         |
| 24'-0"       | 22'-8"     | (2) # 5                             | (2) # 6       | 63          | 763          | 1360         | 2004         |

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| LINTEL       |            | 12" LINTEL SAFE UPLIFT LOADS (PLF) |               |             |              |              |              | LATERAL LOADS (PLF) |        |
|--------------|------------|------------------------------------|---------------|-------------|--------------|--------------|--------------|---------------------|--------|
| TOTAL LENGTH | CLEAR SPAN | TOP REINF.                         | BOTTOM REINF. | 12/8-S-(2)U | 12/16-S-(2)U | 12/24-S-(2)U | 12/32-S-(2)U | 12/8-P              | 12/8-S |
| 3'-0"        | 1'-8"      | None                               | (2) #3        | 5014        | 10000        | 10000        | 10000        | 1168                | 3469   |
| 3'-6"        | 2'-2"      | None                               | (2) # 3       | 3779        | 10000        | 10000        | 10000        | 828                 | 2460   |
| 4'-0"        | 2'-8"      | None                               | (2) # 3       | 3033        | 10000        | 10000        | 10000        | 618                 | 1834   |
| 4'-6"        | 3'-2"      | None                               | (2) # 3       | 2532        | 10000        | 10000        | 10000        | 478                 | 1420   |
| 4'-8"        | 3'-4"      | None                               | (2) # 3       | 2400        | 9867         | 10000        | 10000        | 442                 | 1313   |
| 5'-4"        | 4'-0"      | None                               | (2) # 3       | 1986        | 7268         | 10000        | 10000        | 332                 | 986    |
| 5'-10"       | 4'-6"      | None                               | (2) # 3       | 1759        | 6069         | 10000        | 10000        | 274                 | 815    |
| 6'-4"        | 5'-0"      | (2) # 2                            | (2) # 4       | 1641        | 5210         | 9427         | 10000        | 490                 | 1500   |
| 6'-6"        | 5'-2"      | (2) # 2                            | (2) # 4       | 1586        | 4975         | 8924         | 10000        | 464                 | 1420   |
| 6'-8"        | 5'-4"      | (2) # 2                            | (2) # 4       | 1535        | 4760         | 8461         | 10000        | 440                 | 1346   |
| 7'-6"        | 6'-2"      | (2) # 2                            | (2) # 4       | 1322        | 3916         | 6607         | 9187         | 344                 | 1051   |
| 7'-8"        | 6'-4"      | (2) # 3                            | (2) # 4       | 1326        | 3782         | 6310         | 8774         | 404                 | 1249   |
| 8'-0"        | 6'-8"      | (2) # 3                            | (2) # 4       | 1257        | 3521         | 5774         | 8027         | 370                 | 1143   |
| 8'-8"        | 7'-4"      | (2) # 3                            | (2) # 4       | 1140        | 2980         | 4887         | 6754         | 313                 | 967    |
| 9'-4"        | 8'-0"      | (2) # 3                            | (2) # 5       | 1043        | 2555         | 4189         | 5825         | 348                 | 1111   |
| 10'-4"       | 9'-0"      | (2) # 3                            | (2) # 5       | 924         | 2069         | 3393         | 4718         | 281                 | 900    |
| 11'-4"       | 10'-0"     | (2) # 3                            | (2) # 5       | 830         | 1720         | 2804         | 3899         | 206                 | 743    |
| 12'-0"       | 10'-8"     | (2) # 3                            | (2) # 5       | 777         | 1520         | 2493         | 3460         | 170                 | 661    |
| 12'-8"       | 11'-4"     | (2) # 3                            | (2) # 5       | 698         | 1360         | 2231         | 3102         | 141                 | 591    |
| 13'-4"       | 12'-0"     | (2) # 3                            | (2) # 5       | 606         | 1224         | 2008         | 2792         | 118                 | 532    |
| 14'-0"       | 12'-8"     | (2) # 3                            | (2) # 5       | 524         | 1108         | 1817         | 2526         | 99                  | 481    |
| 14'-8"       | 13'-4"     | (2) # 4                            | (2) # 6       | 528         | 1007         | 1817         | 2296         | 102                 | 786    |
| 15'-8"       | 14'-4"     | (2) # 4                            | (2) # 6       | 434         | 880          | 1443         | 2006         | N.R.                | 728    |
| 17'-4"       | 16'-0"     | (2) # 4                            | (2) # 6       | 319         | 716          | 1174         | 1632         | N.R.                | 614    |
| 19'-4"       | 18'-0"     | (2) # 4                            | (2) # 6       | 214         | 573          | 940          | 1307         | N.R.                | 492    |
| 20'-0"       | 18'-8"     | (2) # 5                            | (2) # 6       | 213         | 535          | 877          | 1219         | N.R.                | 513    |
| 21'-4"       | 20'-0"     | (2) # 5                            | (2) # 6       | 169         | 469          | 769          | 1069         | N.R.                | 449    |
| 22'-0"       | 20'-8"     | (2) # 5                            | (2) # 6       | 151         | 440          | 722          | 1005         | N.R.                | 422    |
| 24'-0"       | 22'-8"     | (2) # 5                            | (2) # 6       | 123         | 391          | 641          | 891          | N.R.                | 320    |

N.R.= Not Recommended



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|                                                                                                                                         | <br>2033 N.E. 27th Avenue<br>Gainesville, FL 32609<br>(352) 372-0953<br>Fax: (352) 378-4611 |                                                                                                                                 |
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