



PERMIT #

B0300199

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT
(This is not a permit it is a receipt only)

03-05-2003

Receipt:

Date Applied: 10/15/2002
Date Completed:

Date Issued:
Date Expired:

Activity Number: B0300199
Status: APPLIED

Entered By: BUILHERC

Site Address: 421 E SAN MARINO DR MBCH
Parcel #: 32320030420

Balance Due: \$1,000.94
Valuation: \$45,000.00

Applicant: CONTRACTOR TO BE ASSIGNED Owner: ROBERT FREHLING & W NANCY
421 E SAN MARINO DR
MIAMI BEACH FLA 331391109

Description: REMODEL-ENCLOSE EXIST 554 SQ FT ON EXST 2ND STORY

Payments made for this receipt:

| Type | Method | Description | Amount |
|---------------|--------|-------------|--------|
| Payment Made | | Accepted By | |
| TOTAL Payment | | | |

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

| Item | Description | Amount | Type | Tax Fee | Paid | Prev. Pmts | Cur. Pmts |
|------|----------------------|----------------|------|---------|------|------------|-----------|
| 21 | Building Permit | 00100000000000 | | | | | |
| 22 | Design | 00100000000000 | | | | | |
| 23 | File | 00100000000000 | | | | | |
| 423 | 180 Compliance Fee | 00100000000000 | | | | | |
| 430 | Training | 00100000000000 | | | | | |
| 44 | Sanitation Impact Fe | 00100000000000 | | | | | |
| 440 | RAOIN Surcharge | 00100000000000 | | | | | |
| 450 | Overhead Inspection | 00100000000000 | | | | | |

CITY OF MIAMI BEACH
BUILDING DEPARTMENT

APPENDIX 11

1700 Convention Center Drive, 2nd Floor
Miami Beach, Florida 33139

Phone: (305) 673-7810
Fax: (305) 673-7857

SPECIAL INSPECTOR

DATE: 02/18/2003

ATTENTION: Building Official

I, the undersigned, a Professional Engineer ☒ Registered Architect ☐, registered in the State of Florida, have been retained by the owners: ROBERT & NANCY FREHLING of the property located at: 421 E San Marino Miami Beach, FL 33139 to perform all the duties of a Special Inspector, as defined in Section 305.3 of the South Florida Building Code.

This office will be responsible to the Building Official of the City of Miami Beach for the inspection of the structural elements of the building, including all excavations, piers, foundation, all reinforced concrete and structural steel, and will file written weekly reports for the same as to the progress, compliance or non-compliance with the plans and the South Florida Building Code. In the event of non-compliance the Building Official shall be notified immediately so that appropriate action can be taken. The pile logs and all concrete test reports will be submitted to the Building Official within one week after their completion.

All mandatory inspections, as required by the South Florida Building Code, MUST be performed by the City of Miami Beach when the special inspector is hired by the owner. The City building inspections must be called for on ALL MANDATORY inspections. Inspections performed by the special inspector hired by the owner are IN ADDITION to the mandatory inspections performed by the City.

Upon completion of the structure, I will submit to the City of Miami Beach a certificate of completion with the South Florida Building Code and approved plans.

ENGINEER/ARCHITECT SIGNATURE & SEAL:

ENGINEER/ARCHITECT (PRINTED): PAUL PEANA, P.E.

LICENSE NUMBER: 37334

CONTACT PHONE NUMBER: (305) 584-6115

BUILDING PERMIT NUMBER: B03000199

OWNER/AGENT SIGNATURE: [Signature]

OWNER/AGENT (PRINTED): [Signature]

BUILDING DEPARTMENT, ACCEPTED BY: [Signature]

DATE: 2/18/03

REV 04/99

Page 3 of 4

CITY OF MIAMI BEACH
BUILDING DEPARTMENT

APPENDIX 11

Must bear Engineer/Architect Original Signature and Raised Seal !!!

Scope of work and/or type of inspection to be done:

PILES INSTALLATION

[Signature]
02/18/03
ARCHITECT/ENGINEER
SEAL

REV 04/99

Page 4

APPENDIX 11

Phone: (305) 673-7610
Fax: (305) 673-7857

SPECIAL INSPECTOR

DATE:

ATTENTION: Building Official

I, the undersigned, a Professional Engineer ☒ Registered Architect ☐ registered in the State of Florida, have been retained by the owners: MR. FRENCH of the property located at: SAY MARINO ISLAND, MIAMI BEACH to perform all the duties of a Special Inspector, as defined in Section 305.3 of the South Florida Building Code.

This office will be responsible for the Building Official of the City of Miami Beach for the inspection of the structural elements of the building, including all excavations, pilings, foundation, all reinforced concrete and structural steel, and soil fill. Building Official will be responsible for the inspection of the building for compliance with the Florida Building Code and the Florida Fire Prevention Code. In the event of non-compliance the Building Official shall be notified immediately so that appropriate action can be taken. The pile logs and all concrete test reports will be submitted to the Building Official within one week after their completion.

All mandatory inspections, as required by the South Florida Building Code, **MUST** be performed by the City of Miami Beach when the special inspector is hired by the owner. The City building inspections must be called for on **ALL MANDATORY** inspections. Inspections performed by the special inspector hired by the owner are **IN ADDITION** to the mandatory inspections performed by the City.

Upon completion of the structure, I will submit to the City of Miami Beach a certificate of compliance with the South Florida Building Code and approved plans.

ENGINEER/ARCHITECT SIGNATURE & SEAL:

ENGINEER/ARCHITECT (PRINTED): GEORGE V. Perez.

LICENSE NUMBER: PE#12294

CONTACT PHONE NUMBER: (305) 412-2200

BUILDING PERMIT NUMBER: B0300199

OWNER/AGENT SIGNATURE: *Kurt*

OWNER/AGENT (PRINTED): Kathleen Corchian

BUILDING DEPARTMENT, ACCEPTED BY:

DATE: 3.4.03

APPENDIX 11

Must bear Engineer/Architect Original Signature and Raised Seal ! !

Scope of work and/or type of inspection to be done:

- (1) ALL CONCRETE WORK. - GRADE BEAMS, Curb, up.
SLOBS, COLUMNS, TIE BEAMS (Common for both)
- (2) REINFORCED Masonry (concrete)
- (3) STEEL FRAMING.
- (4) ROOF SHEATHING AND FRAMING. Curb Inspects
Structural

ARCHITECT/ENGINEER
SEAL

Puga and Associates, INC.

7200 SW 20th Street, Miami, FL 33155 Phone 305/225-1212 Fax 305/225-2200

Project Information

For Freeling Residence
~~421 E. San Marino Miami Beach, Fl.~~
421 E. San Marino Miami Beach, Fl.

Design Information

| | Htg | Ctg | Infiltration | Simplified Average |
|-----------------------------|-----|-----|----------------------|-----------------------|
| Outside db (°F) | 50 | 90 | Method | |
| Inside db (°F) | 70 | 75 | Construction quality | |
| Design TD (°F) | 20 | 15 | Fireplaces | 0 |
| Daily range | | L | | |
| Inside humidity (%) | | 50 | | |
| Moisture difference (gr/lb) | | 55 | | |

HEATING EQUIPMENT

| | |
|--------------------------|-----------------|
| Make | n/a |
| Trade | n/a |
| Efficiency | 100.0 Btu |
| Heating input | 0 Btu/h |
| Heating output | 0 Btu/h |
| Heating temperature rise | 0 °F |
| Actual heating fan | 60G cfm |
| Heating air flow factor | 0.103 cfm/Btu/h |

COOLING EQUIPMENT

| | |
|-------------------------|----------------|
| Make | |
| Trade | |
| Efficiency | 0.0 EER |
| Sensible cooling | 0 Btuh |
| Latent cooling | 0 Btuh |
| Total cooling | 0 Btuh |
| Actual cooling fan | 600 cfm |
| Cooling air flow factor | 0.056 cfm/Btuh |

| ROOM NAME | Area (ft ²) | Htg load (Btu/h) | Clg load (Btu/h) | Htg AVF (cfm) | Clg AVF (cfm) |
|--|-------------------------|------------------|------------------|---------------|---------------|
| Study Closet | 470.34 | 5455.345 | 10650 | 564.36 | 531.6 |
| Entire House Ventilation air Equip @ 0.95 RSM Latent cooling | 504 | 5804.0 | 10787.0 | 600 | 600 |
| TOTALS | 504 | 5804 | 12121 | 600 | 600 |

Bold italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 7th Ed

RIGHT-J WORKSHEET Entire House Puga and Associates, INC.

7326 SW 42nd Street, Miami, FL 33155-5999 Phone: 305-555-1212 Fax: 305-555-2121

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478</ |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-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SUMMER CALCULATIONS
Residential Whole Building Performance Method A - Details

ADDRESS 5813 Southwest 68 Street, South Miami, FL, PERMIT #

| BASE | | | AS-BUILT | | | | | | |
|-----------------------------|---------------------|------------------|---------------------------------|-------------|------------------------------------|---------------------|---------------------|------------------|--|
| Summer Base Points: 14172.5 | | | Summer As-Built Points: 17146.4 | | | | | | |
| Total Summer Points | X System Multiplier | = Cooling Points | Total Component | X Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Cooling Points | |
| 14172.5 | 0.4265 | 6046.0 | 17146.4 | 1.00 | 1.113 | 0.283 | 0.902 | 4899.2 | |

WINTER CALCULATIONS
Residential Whole Building Performance Method A - Details

ADDRESS 5813 Southwest 68 Street, South Miami, FL, PERMIT #

| BASE | | | | AS-BUILT | | | | | | | |
|----------------------------------|-------|-------|-----------------------------|--------------------------------------|----------|------|-------|-------------|-------|------|-------|
| GLASS TYPES | | | | GLASS TYPES | | | | | | | |
| 18 # Conditioned X BWPM = Points | | | | Type/SC | | | | | | | |
| Floor Area | | | | Overhang | | | | | | | |
| | | | | Omt Len Hgt Area X WPM X WOF = Point | | | | | | | |
| 18 | 604.0 | 2.35 | 214.1 | Single Clear | NW | 2.0 | 3.6 | 21.0 | 4.88 | 0.98 | 100.7 |
| | | | | Single Clear | SE | 2.0 | 3.6 | 21.0 | 3.29 | 1.12 | 77.7 |
| | | | | Single Clear | NE | 2.0 | 3.6 | 60.0 | 4.71 | 0.99 | 260.9 |
| | | | | Single Clear | NE | 4.0 | 8.1 | 15.6 | 4.71 | 1.00 | 73.1 |
| Base Total: | | | | 117.6 632.4 | | | | | | | |
| WALL TYPES | | | | WALL TYPES | | | | | | | |
| Area X BWPM = Points | | | | Type | | | | | | | |
| | | | | R-Value Area X WPM = Points | | | | | | | |
| Adjacent | 0.0 | 0.00 | 0.0 | Concrete, Int Insul | Exterior | 5.0 | 498.0 | 0.90 | 449.2 | | |
| Base Total: | 489.8 | 298.8 | As-Built Total: 498.8 648.2 | | | | | | | | |
| DOOR TYPES | | | | DOOR TYPES | | | | | | | |
| Area X BWPM = Points | | | | Type | | | | | | | |
| | | | | Area X WPM = Points | | | | | | | |
| Adjacent | 33.3 | 1.30 | 43.3 | Adjacent Wood | | 33.3 | 1.90 | 63.3 | | | |
| Base Total: | 33.3 | 43.3 | As-Built Total: 33.3 63.3 | | | | | | | | |
| CEILING TYPES | | | | CEILING TYPES | | | | | | | |
| Area X BWPM = Points | | | | Type | | | | | | | |
| | | | | R-Value Area X WPM X WCM = Points | | | | | | | |
| Under Attic | 504.3 | 0.10 | 50.4 | Under Attic | | 30.0 | 504.3 | 0.10 x 1.00 | 50.4 | | |
| Base Total: | 504.3 | 50.4 | As-Built Total: 504.3 50.4 | | | | | | | | |
| FLOOR TYPES | | | | FLOOR TYPES | | | | | | | |
| Area X BWPM = Points | | | | Type | | | | | | | |
| | | | | R-Value Area X WPM = Points | | | | | | | |
| Slab | 0.0p | 0.0 | 0.0 | Raised Wood Adjacent | | 11.0 | 504.3 | 0.50 | 252.1 | | |
| Base Total: | 0.0p | 0.0 | As-Built Total: 504.3 252.1 | | | | | | | | |
| INFILTRATION | | | | INFILTRATION | | | | | | | |
| Area X BWPM = Points | | | | Area X WPM = Points | | | | | | | |
| 504.0 | -0.06 | -30.2 | 504.0 -0.06 -30.2 | | | | | | | | |

WINTER CALCULATIONS
Residential Whole Building Performance Method A - Details

ADDRESS 5813 Southwest 68 Street, South Miami, FL, PERMIT #

| BASE | | | AS-BUILT | | | | | | |
|---------------------------|---------------------|------------------|--------------------------------|-------------|------------------------------------|---------------------|---------------------|------------------|--|
| Winter Base Points: 435.2 | | | Winter As-Built Points: 1316.2 | | | | | | |
| Total Winter Points | X System Multiplier | = Heating Points | Total Component | X Cap Ratio | X Duct Multiplier (DM x DSM x AHU) | X System Multiplier | X Credit Multiplier | = Heating Points | |
| 435.2 | 0.6274 | 273.0 | 1316.2 | 1.00 | 1.123 | 1.000 | 0.902 | 1333.5 | |

WATER HEATING & CODE COMPLIANCE STATUS Residential Whole Building Performance Method A - Details

ADDRESS 5813 Southwest 68 Street, South Miami, FL, PERMIT #

| BASE | | | | AS-BUILT | | | |
|--------------------|---|------------|---------|-----------------|----|--------------------|---|
| WATER HEATING | | | | | | | |
| Number of Bedrooms | X | Multiplier | = Total | Tank Volume | EF | Number of Bedrooms | X Tank X Multiplier X Credit = Total Multiplier |
| 1 | | 2369.00 | 0.0 | | | 1 | 1.00 2369.00 1.00 2369.0 |
| | | | | As-Built Total: | | | |
| | | | | 6.8 | | | |

| BASE | | | | AS-BUILT | | | |
|----------------|---|----------------|----------------|----------------|---|----------------|----------------|
| Cooling Points | + | Heating Points | = Total Points | Cooling Points | + | Heating Points | = Total Points |
| 6046 | | 273 | 0 | 6319 | | 1334 | 0 6233 |

PASS


Code Compliance Checklist Residential Whole Building Performance Method A - Details

ADDRESS 5813 Southwest 68 Street, South Miami, FL, PERMIT #

| 6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST | | | |
|---|-----------------|--|-------|
| COMPONENTS | SECTION | REQUIREMENTS FOR EACH PRACTICE | CHECK |
| Exterior Windows & Doors | 606.1 ABC 1.1 | Maximum: 3 cfm/sq ft window area, 5 cfm/sq ft door area | |
| Exterior & Adjacent Walls | 606.1 ABC 1.2.1 | Caulk, gasket, weatherstrip or seal between windows/doors & frames, surrounding wall foundation & wall sole or sill plate, joints between exterior wall panels at corners, utility penetrations, between wall panels & top/bottom plates, between walls and floor | |
| Floors | 606.1 ABC 1.2.2 | EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate | |
| Ceilings | 606.1 ABC 1.2.3 | Penetrations/openings >1/8" sealed unless backed by brass or joint members | |
| Recessed Lighting Fixtures | 606.1 ABC 1.2.4 | Between walls & ceilings, penetrations of ceiling plane of top floor, around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier, gaps in gyp board & top plate attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams | |
| Multi-story Houses | 606.1 ABC 1.2.5 | Type IC rated with no penetrations, sealed or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation, or Type IC rated with < 2.0 cfm from conditioned space, tested | |
| Additional Infiltration Tests | 606.1 ABC 1.3 | Air barrier on perimeter of floor cavity between floors | |
| | | Exhaust fans vented to outdoors, dampers, combustion space heaters comply with NFPA have combustion air | |

| 6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.) | | | |
|--|--------------|--|-------|
| COMPONENTS | SECTION | REQUIREMENTS | CHECK |
| Water Heaters | 612.1 | Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required | |
| Swimming Pools & Spas | 612.1 | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency > 75% | |
| Shower heads | 612.1 | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG | |
| Air Distribution Systems | 610.1 | All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section 610 | |
| HVAC Controls | 607.1 | Ducts in unconditioned attics, R-6 min. insulation | |
| Insulation | 604.1, 602.1 | Separate readily accessible manual or automatic thermostat for each system | |
| | | Ceilings: Min. R-19. Common walls: Frame R-11 or CBS R-3 both sides | |
| | | Common ceiling & floors: R-11 | |

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

 ESTIMATED ENERGY PERFORMANCE SCORE* = 85.1
 The higher the score, the more efficient the home.

5813 Southwest 68 Street, South Miami, FL

| | | | |
|-------------------------------------|---------------|---------------------|-----------------|
| 1. New construction or existing | Medium | 12. Heating systems | Cap 15 - 1204.3 |
| 2. Single family or multi-family | Single family | 13. Cooling systems | Cap 15 - 1204.3 |
| 3. Number of units if multi-family | 1 | 14. Heating systems | Cap 15 - 1204.3 |
| 4. Number of Bedrooms | 1 | 15. Heating systems | Cap 15 - 1204.3 |
| 5. Is this a worst case? | No | 16. Heating systems | Cap 15 - 1204.3 |
| 6. Conditioned floor area, sq ft | 941.00 | 17. Heating systems | Cap 15 - 1204.3 |
| 7. Glass area & type | | 18. Heating systems | Cap 15 - 1204.3 |
| a. Clear - single pane | 1176.00 | 19. Heating systems | Cap 15 - 1204.3 |
| b. Clear - double pane | 0.00 | 20. Heating systems | Cap 15 - 1204.3 |
| c. Tinted - single pane | 0.00 | 21. Heating systems | Cap 15 - 1204.3 |
| d. Tinted - double pane | 0.00 | 22. Heating systems | Cap 15 - 1204.3 |
| 8. Door types | | 23. Heating systems | Cap 15 - 1204.3 |
| a. Panel - solid | 0.00 | 24. Heating systems | Cap 15 - 1204.3 |
| b. Panel - solid | 0.00 | 25. Heating systems | Cap 15 - 1204.3 |
| c. Panel - solid | 0.00 | 26. Heating systems | Cap 15 - 1204.3 |
| d. Panel - solid | 0.00 | 27. Heating systems | Cap 15 - 1204.3 |
| 9. Wall types | | 28. Heating systems | Cap 15 - 1204.3 |
| a. Concrete, full-thickness | 0.00 | 29. Heating systems | Cap 15 - 1204.3 |
| b. Concrete, full-thickness | 0.00 | 30. Heating systems | Cap 15 - 1204.3 |
| c. Concrete, full-thickness | 0.00 | 31. Heating systems | Cap 15 - 1204.3 |
| d. Concrete, full-thickness | 0.00 | 32. Heating systems | Cap 15 - 1204.3 |
| 10. Ceiling type | | 33. Heating systems | Cap 15 - 1204.3 |
| a. Tinted - single pane | 0.00 | 34. Heating systems | Cap 15 - 1204.3 |
| b. Tinted - single pane | 0.00 | 35. Heating systems | Cap 15 - 1204.3 |
| c. Tinted - single pane | 0.00 | 36. Heating systems | Cap 15 - 1204.3 |
| d. Tinted - single pane | 0.00 | 37. Heating systems | Cap 15 - 1204.3 |
| 11. Ducts | | 38. Heating systems | Cap 15 - 1204.3 |
| a. No. Ins. Ret. Cond. All Interior | 0.00 | 39. Heating systems | Cap 15 - 1204.3 |
| b. No. Ins. Ret. Cond. All Interior | 0.00 | 40. Heating systems | Cap 15 - 1204.3 |

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed or exceeded in this home before final inspection. Otherwise a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature _____ Date _____

Address of New Home _____ City FL Zip _____



**NOTE: The home's estimated energy performance score is only available through the FLA RES computer program. This is not a Building Energy Rating. If your score is 50 or greater, you are eligible for a "NEPA 100" EnergyStar designation. Your home may qualify for energy efficiency incentives. EEM incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321.438.1492 or see the Energy Gauge web site at www.floridaclear.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction contact the Department of Community Affairs at 850.487.1424.

Summary Energy Code Results
Residential Whole Building Performance Method A

5813 Southwest 68 Street
South Miami, FL

Project Title:
Frehling Residence

Code Only
Professional Version
Climate: South

10/10/02

| Building Loads | | | |
|----------------|--------------|------------|--------------|
| Base | | As-Built | |
| Summer: | 14172 points | Summer: | 17146 points |
| Winter: | 435 points | Winter: | 1316 points |
| Hot Water: | 0 points | Hot Water: | 0 points |
| Total: | 14608 points | Total: | 18463 points |

| Energy Use | | | |
|------------|-------------|------------|-------------|
| Base | | As-Built | |
| Cooling: | 6046 points | Cooling: | 4899 points |
| Heating: | 273 points | Heating: | 1334 points |
| Hot Water: | 0 points | Hot Water: | 0 points |
| Total: | 6319 points | Total: | 6233 points |

PASS
e-Ratio: 0.99

EnergyGauge®(Version: FLRCPB v3.22)

**SUBSURFACE EXPLORATION &
GEOTECHNICAL EVALUATION REPORT**

FREHLING RESIDENCE ADDITION
421 East San Marino Drive
Miami Beach, Florida

IL Project No. 022207

OFFICE COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: _____
ZONING: _____
DRB/MPB: _____
CONCURRENCY: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
ENGINEERING: _____
PUBLICWORKS: _____
STRUCTURAL: _____
ACCESSIBILITY: _____
ELEVATOR: _____

Report Prepared for
G.V. Pirez Associates, Inc.
7315 SW 8th Avenue
Miami, Florida 33173

Report Prepared by
INTERCOUNTY LABORATORIES, INC.
308 N.W. 170th Street
North Miami Beach, Florida

December 2, 2002



**INTERCOUNTY
LABORATORIES, INC.**

Geotechnical, Environmental and Materials Testing Engineers

308 Northwest 170th Street
N. Miami Beach, FL 33169
Telephone: (305) 651-8483
Facsimile: (305) 651-4460

December 2, 2002

G.V. Pirez Associates, Inc.
7315 SW 8th Avenue
Miami, Florida 33173

Reference: **Frehling Residence Addition**
421 East San Marino Drive
Miami Beach, Florida
IL Project No. 022207

Gentlemen:

As authorized, Intercounty Laboratories, Inc. (IL) performed a Subsurface Exploration and Geotechnical Evaluation for the above referenced project. The purpose of this study was to evaluate subsurface conditions and provide four recommendations for the proposed addition.

Intercounty Laboratories, Inc. appreciates the opportunity to provide its geotechnical engineering services on this project. If you have any questions regarding this report, or if we may be of further assistance, please contact our office.

Respectfully submitted,
INTERCOUNTY LABORATORIES, INC.

Alfredo Budik 12/1/02
Alfredo Budik, P.E.
Senior Project Engineer

Florida License No. 43884

Alexander A. Hockman
Alexander A. Hockman, P.E.
President
Florida License No. 49478

Distribution: 3 Client

Enclosures: Notes Related to Standard Penetration Test Boring Logs
Standard Penetration Test Boring Logs
Boring Location Plan

G.V. Pirez Associates, Inc.
Frehling Residence Addition
421 East San Marino Drive

December 2, 2002
IL Project No. 022207
Miami Beach, Florida

INTRODUCTION

Intercounty Laboratories, Inc. (IL) performed a subsurface exploration and geotechnical evaluation for the proposed addition to the existing residence structure at 421 East San Marino Drive, Miami Beach, Florida. This report presents the results of IL's exploration and evaluation for the proposed addition.

PROJECT INFORMATION

Based on the faxed sketch of the site, the project consists of an addition to the north side of the existing structure. The existing 2-story residence is founded on a deep foundation system.

SUBSURFACE CONDITIONS

One (1) Standard Penetration Test (SPT) was performed on November 11, 2002 and advanced to 40 feet below the existing grade in the front of the residence. The boring was advanced using a truck mounted drill rig. The approximate test location is indicated on the enclosed reduced survey plan. The objective of the SPT was to observe the nature, relative compactness and variability of the soil, rock and immediate groundwater levels underlying the project site.

The enclosed test boring log shows the detailed geologic conditions encountered at the indicated location. The boring records at this location represent IL's interpretation of the in-place density variations as well as the strata changes, which were derived from IL engineer's examination of the soil samples. It should be understood that the interfaces between various soils in the geologic profile are generally not well-defined and the transition between soil types may be gradual. In general the subsurface profile at the boring locations can be generally described as follows: Topsoil, Upper Sand, Silt, Sandy Limestone, Lower Sand, and Cemented Sand.

At the time of drilling, the groundwater level was encountered at approximately 5-feet below the existing grade. However, since the water level fluctuates (sometimes by several feet) with seasonal variations, tidal changes, rainfall and nearby construction activities, these depths should not be relied upon for dewatering and construction purposes.

DISCUSSION

Due to the limited site access and IL's evaluation of test boring, the proposed pin pile foundation system using a maximum design compression resistance of 5-tons is well suited for this project.

The pin pile system typically consists of driving 3-inch diameter steel pipes with an air-powered hammer until the limestone layer is reached and a practical refusal is achieved. Based on the results of the boring, pile lengths on the order of 16 feet should be

**INTERCOUNTY
LABORATORIES, INC.**

G.V. Pirez Associates, Inc.
Frehling Residence Addition
421 East San Marino Drive

December 2, 2002
IL Project No. 022207
Miami Beach, Florida

anticipated. However, due to the inconsistency of the limestone profile, this depth may vary.

PIN PILE SPECIFICATIONS

1. Install 3-inch nominal diameter I.D. schedule 40 steel pin piles (galvanized or epoxy coated) at locations specified by the Structural Engineer with a design resistance of 5-tons per pile.
2. The steel pipes shall be supplied and driven in sections with either threads at both ends and connected with standard couplings, or welded to sleeve sections. The welded areas should also be epoxy coated. The tip of the piles shall have a threaded or welded end cap.
3. The piles should be installed using an air hammer (maximum 135#) until the pile has reached the anticipated depth and the rate of penetration is less than 1/2-inch for 1 minute. Final decision regarding pile length and driving criteria shall be made by the geotechnical engineer based on the driving behavior of the pile and the soil conditions encountered at each location. After pile approval, the contractor shall cut off the pile to the required elevation.
4. The pile shall be filled with a grout mixture with a minimum compressive strength of 3,000 pounds per square inch (psi) in 28 days. The grout shall be pumped using a tremie pipe placed at the toe of the pile. As an alternative, the pipe can be cleaned using compressed air and a 1-inch hose advanced to the toe of the pile just prior to grouting from the top. To confirm compressive strength, the grout shall be tested in accordance with ASTM C-109 for every day of grouting. The grout shall be held in the mixer for a period not to exceed 90 minutes or as instructed by the Geotechnical Engineer. The contractor shall make every effort to fill the piles with the grout so that any trapped air during grout placement is eliminated. In the event the contractor elects to use a bagged grout, compressive strength data and mixing procedures must be submitted for approval.
5. One #5 bar shall then be placed in the center of the pile for the full length of pile, while the grout is still fluid. Pile head attachments should be as specified by the Engineer of Record. However, as a minimum, the attachment should consist of a 6-inch x 6-inch x 1/2-inch steel plate with a hole in the center and welded to the top of the pile. As an alternative, the steel plate can be welded to a sleeve pipe and later placed on top of the pile.

MEASUREMENT AND PAYMENT

The measurement of the pile length for payment shall be made on accepted permanent piles, incorporated in the completed work, and shall extend from the toe of the pile to the plane of cut off. The cost of the reinforcing bars, which extend above the cut off as

**INTERCOUNTY
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G.V. Pirez Associates, Inc.
Frehling Residence Addition
421 East San Marino Drive

December 2, 2002
IL Project No. 022207
Miami Beach, Florida

dowels, shall also be included in the aforementioned pile length. All rejected piling will not be measured for payment.

CONSTRUCTION MONITORING

Intercounty Laboratories, Inc. should be afforded the opportunity to provide monitoring during pile installation procedures to ensure compliance with these recommendations and to confirm subsoil conditions on which these recommendations were based. These items must be documented at the time of occurrence by Intercounty Laboratories, Inc.'s personnel. In the event IL is not retained in this capacity, IL cannot accept responsibility for the execution of the recommendations or performance of the foundation system as provided in this report.

REPORT QUALIFICATIONS

This report has been prepared for the exclusive use of G.V. Pirez Associates, Inc. and the project designers for specific application to the referenced project in accordance with generally accepted local soil and foundation engineering practices. No other warranty, expressed or implied, is made. Interaction among the design team, including IL, is essential during the design and construction of the recommended foundation. IL must be afforded the opportunity to review the final foundation plans to assure that our recommendations have been properly implemented by the design team.

The evaluation of site subsurface conditions has been based on IL's understanding of the site and project information furnished by others and the data obtained in this geotechnical exploration. An attempt to describe strata changes, water levels, variation in drilling resistance, loss of circulation, etc. were made during the performance of the boring. However, the lack of mention does not preclude their presence. Furthermore, IL cannot be held responsible for any man-made buried objects encountered during construction that were not discussed in this report. It is unlikely that the dispersed sampling used in this exploration will identify all variant conditions. It is important to understand that major subsurface discontinuities or soil quality changes that can affect foundation construction and long-term performance may occur within short lateral distances. Appropriate field engineering observations during pile installation will provide an initial basis for identifying variant conditions and for initiating proper remedial action.

In the event the location of the proposed addition is changed or moved, or if any structure not addressed in this report is added, the recommendations contained in this report shall not be considered valid unless they are reviewed and approved by IL.

3

INTERCOUNTY
LABORATORIES, INC.

INTERCOUNTY LABORATORIES, INC.

NOTES RELATED TO

STANDARD PENETRATION TEST BORING LOGS

- 1) LEGEND: Graphical representation of strata encountered. Delineations are estimates only.
- 2) SPT: Number of blow to drive a 2" i.d. split spoon sampler 6 inches using a 140 pound hammer dropped 30 inches.
- 3) N: The sum of the number of blows required for the second and third 6 inches of penetration of each split spoon sampler.
- 4) REC: Length of sample recovered.
- 5) The boring(s) was located in the field by offsetting from existing reference marks using a cloth tape and should be considered approximate only.
- 6) Test boring(s) describe subsurface conditions only at the location(s) drilled and at the time drilled and they provide no information about subsurface conditions beneath the boreholes. The soil/rock strata interfaces shown on the Report of Soil Boring Logs are approximate and may vary from those shown. At locations not explored, surface conditions that differ from those observed in the borings may exist and should be anticipated.
- 7) The information reported on IL's boring logs is based on IL's drilling logs and on visual examination in IL's laboratory of disturbed soil samples recovered from the borings. The distinction shown on the logs between soil types is approximate only. The actual transition from one soil to another may be gradual and indistinct. Dotted lines on the boring logs represent inferred soil transition boundaries. The soil types are based on split spoon and/or core samples and drilling resistance.
- 8) The groundwater depth shown on IL's boring logs is the water level depth as observed in the borehole as noted. These water levels may have been affected by the drilling procedures, especially in borings made by rotary drilling with a bentonite solution. Additionally, groundwater level fluctuates with seasonal variations, tidal changes, rainfall and nearby construction activities and therefore these depths should not be relied upon for dewatering and construction purposes. An accurate determination of groundwater level requires long-term observation with monitoring wells. NI in water level indicates groundwater was not encountered. NS indicates Not Sampled.

INTERCOUNTY
LABORATORIES, INC.

INTERCOUNTY LABORATORIES, INC.
308 N.W. 170TH STREET NORTH MIAMI BEACH, FLORIDA 33169
DATE: (305) 651-8483 • BROWARD: (305) 728-8483
GEOTECHNICAL AND CONSTRUCTION MATERIALS TESTING ENGINEERS

REPORT OF SOIL BORING LOG # B-1
CLIENT: G.V. Pirez, Inc.
PROJECT: Frehling Residence Addition 421 East San Marino, Miami Beach, FL
LOCATION OF BORING: See attached sketch

SHEET 1 OF 2
JOB NO. 022207

| DEPTH | SOIL DESCRIPTION | LEGEND | SPT | N | REC. | REMARKS |
|-------|--|--------|-----|----|------|--|
| 0 | TOPSOIL | | 3 | | 1.5 | Boring advanced with 2-7/8" tricone bit & bentonite solution |
| 1 | Brown fine to medium grained SAND, some Silt | | 6 | 13 | | |
| 2 | Brown SHELLY SAND | | 5 | | 1.5 | |
| 3 | | | 3 | 5 | | |
| 4 | | | 2 | | 1.5 | |
| 5 | | | 1 | 2 | | Water level measured while boring being performed |
| 6 | Gray SILT | | | | 1.5 | |
| 7 | | | | 2 | | |
| 8 | | | | | 1.5 | |
| 9 | | | | 2 | | |
| 10 | | | | | 1.5 | |
| 11 | | | | 4 | | |
| 12 | | | | | 1.5 | |
| 13 | | | | | | |
| 14 | | | | | 1.7 | |
| 15 | Gray SANDY LIMESTONE | | 14 | 29 | | |
| 16 | | | 15 | | | |
| 17 | | | 20 | | | |
| 18 | | | | | 1.7 | |
| 19 | | | 9 | 29 | | |
| 20 | | | 14 | | | |
| 21 | | | 15 | | | |
| 22 | | | 20 | | | |

Drill Crew: AR/LG
Date Drilled: 11/11/02
Drill Equipment: B-53
Elevation: Not Furnished
Water Level: 5.0'
Checked By: A. Budik

Structural Calculations

Frehling Residence

G. V. Pirez Associates, Inc.
Consulting Engineers
7315 SW 87th Avenue, #100
Miami, Florida 33173
Phone: (305) 412-2200
Fax: (305) 412-2011
e-mail: gvpirez@cofs.net
George V. Pirez, PE #12294

G. V. Pirez Associates, Inc.

Structural Engineers

7315 Southwest 87th Avenue
Suite 100
Miami, Florida 33173

ph 305.412.2200
f 305.412.2011
gvpirez@cofs.net

February 6, 2003

City of Miami Beach
Building Department
1700 Convention Center Drive
Miami Beach, FL 33139

Project: Frehling Residence
421 East San Marino Drive
Miami Beach, Florida

Re: Structural Answers

To Whom It May Concern:

The following are responses to structural comments made by the City of Miami Beach Building Department on January 17, 2003, for the above-mentioned project:

- Item 4: NOA for wood connectors enclosed.
- Item 8: Enclosed find photocopies of existing drawings. No intermediate tie beams, 5" concrete slab is adequate to carry proposed loading. See calculations on sheet 14.
- Item 10:
 - No pre-cast lintels. No new concrete beams.
 - Reinforcing steel is not welded.
 - Steel plates are welded to pin piles.
 - Specifications for masonry, grout, mortar type and doweling added to drawing S-1.
- Item 12:
 - Wood fascia to be 2 x 6 as shown on sections 2 and 3/ drawing S-3.
 - Roof mean height: 22' as shown on drawing S-3.

G. V. Pirez Associates, Inc.

Structural Engineers

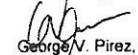
7315 Southwest 87th Avenue
Suite 100
Miami, Florida 33173

ph 305.412.2200
f 305.412.2011
gvpirez@cfs.net

- Item 14:
- Calculations for 'Detail A' enclosed. See calculation sheet 1-A.
 - General contractor feels that new channel can be installed by removing existing fill around existing grade beam. All other grade beams have been checked and they work.
 - The owner does not like new piling inside the existing residence.
 - No plans available of original house.

If any questions regarding the above-matter still remain, please contact our office.

Respectfully yours,


George V. Pirez, PE
#12294

01/31/2003 02:57 3056525680

KATHLEEN COMICHIANI

PAGE 01

ATTX GEORGE

Comments on Permit Application b0300199
Susan Hanger, P.E., processor
421 E San Marino Dr, City of Miami Beach
Frehling Residence Addition
10/21/02 01/17/03

Architectural and Structural:

1. The following are common documents needed for a remodeling and addition of this type:
 - 2. Soil study for the use of pin piles. *Supplied.*
 - 3. Special inspector letter for the supervision of pile installation. *Not found.*
 - 4. NOA for wood and truss connectors and tie downs. *Not submitted.*
 - 5. NOA for postcast lintels if used. *None used now.*
 - 6. Elevation of floor slabs. *Given.*
7. Upon further observation the following is seen: More dimensions are needed. Window sizes or mullion spacing are needed (do they match the pipe columns?).
8. Describe in the drawings if there are tie beams or structural beams below the second floor addition, especially the side walls. *No new information on plan.* The architectural plan shows what could be a deep beam over doors at some plane beyond, not necessarily under the side window areas. There are good copies of existing foundation plans in the calculation file. Do you have the same for the second level? Will the 5" concrete slab carry the L.L., S.D., and the weight of the framing for the new wood floor? A section is needed at the side.
9. For wind loads on windows check the premise -- ASCE7-98 now uses 146 MPH and Kd can be .85 for almost all wind loads. Your loads are high enough for the code requirements but when choosing the windows you may have difficulty. Fix notation on A3.80.
10. The notes on S-1 disagree about lintels with another note. You may not or may need NOA's. Note on S-1 deleted, note on S-3 is clear. Where do you have concrete beams? Use weldable reinforcing in the pin pile. Where are the specs or general notes for masonry, grout, rebar devoted to existing beams, laps in grouted cells, structural steel for tubes and pipes.
11. In section 1/S-2 show parapet at the edge of roof (roof projection appears to be a cantilever) to agree with the Architectural section. *Done.* The height of 8" is enough for flashing if no insulation is used. Does the wood floor ledger at the existing wall connect into block/filled block/concrete? *Notation made.*
12. On S-3 give gravity as well as uplift loads at connections. Both loads given on S-3. A section through the A/C/closet alcove would explain the TB height and relative steel beam height. *Done.* Do you have need for a plywood fascia at the end of the trusses? *NA.* Some typo errors appear on S-3. The building height in other documents is called out to be 22 feet not 35 feet. Your reference for connections is 4 using Detail A/S-2? *Obvious but not fixed. Provide calculations for the hold-downs as seen in Detail A/S-2.*

01/31/2003 02:57 3056525680

KATHLEEN COMICHIANI

PAGE 02

13. Calculations: The steel beam bracing is not at the 1/3 point but at 11 25 feet. Overhang wind needs to be added to the uplift in the 5 foot tributary area for beam A (compare page 2 and 4 of calcs). A 1/3 point bracing may make the beam work, but check 11 25 feet if you want the braces there. *Done.*
14. As stated in item 8, the second floor beam is not illustrated at the side walls, which you check in the calcs. Do you have microfilm or a record of the previous construction in this wing of the house? The south or south-west corner where the grade beams (GB) run parallel to each other to pick up the existing column next to the house the calculations are not clear. GB-21 (along the existing wall) is shown to be strong enough for the new load but its support cantilever is not checked or the pile holding it. See page 10 of calcs. I do not have 10 pages of calcs now. What has been omitted? If you have records to show the bracket off the pile won't work you may need to strengthen the foundation there. At the north side similarly the GB needs to be verified. The 2 #9 and 2 #10 which are adequate in GB-21 are not available? Are pin piles needed there? There is no schedule of GB's beyond 13 now. GB-11 that is shown to hold up location 2, northwest is omitted in the schedule. How would you get a steel beam below a structural floor to cantilever out and carry load 2 without destroying the floor? What can you do to help the load 2 at the southwest where you haven't checked the load on the pile under GB-12 and 13 or the beams?
15. Apparently you feel the diaphragm action is not critical in this lesser roof added to the major one.



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33136-1563
(305) 375-2901 FAX (305) 375-2906

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2534
CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2866 FAX (305) 375-2868

PRODUCT CONTROL DIVISION
(305) 375-2862 FAX (305) 375-4339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

United Steel Products Company
703 Rogers Drive (P. O. Box 80)
Montgomery, MN 56069

Your application for Notice of Acceptance (NOA) of:

Wood Connectors

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.


The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 02-0102.03
EXPIRES: 01/11/2007


Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET. SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.


Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 02/07/2002

10-050001-10-2000/complete/notice acceptance cover page.doc

Internet mail address: postmaster@buildingcodeonline.com Homepage: http://www.buildingcodeonline.com

United Steel Products Company

ACCEPTANCE No.: 02-0102.03

APPROVED: February 7, 2002

EXPIRES: January 11, 2007

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews Notice of Acceptance (NOA) No. 01-0417.10, which was issued on August 9, 2001. It renews the approval of a wood connector, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The USA Wood Connectors and its components shall be constructed in strict compliance with the following document: Drawing No TAP-TAPR-TAPL, Sheets 1 through 2 of 2, titled "Wood Connectors," prepared by manufacturer, dated 6/12/01, signed and sealed by Thomas A. Kolden, bearing the Miami-Dade County Product Control renewal stamp with the NOA number and expiration date by the Miami-Dade County Product Control Division. This document shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 Allowable loads are for Douglas Fir or better with a specific gravity of 0.50 and moisture content of 19% or less.
3.2 Allowable loads are based on testing per ASTM D1761 and calculations per National Design Specifications for Wood Construction 1991 Edition & 1993 Errata.

4. INSTALLATION

4.1 The wood connectors shall be installed in strict compliance with the approved drawings.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

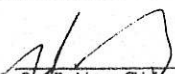
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Raul Rodriguez, Chief
Product Control Division

United Steel Products Company

ACCEPTANCE No.: 02-0102.03

APPROVED: February 7, 2002

EXPIRES: January 11, 2007

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:

- a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
- b) The product is no longer the same product (identical) as the one originally approved;
- c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
- d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:

- a) Unsatisfactory performance of this product or process.
- b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.

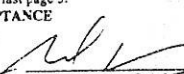
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not resal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE


Raul Rodriguez, Chief
Product Control Division

United Steel Products Company.

ACCEPTANCE NO: 01-0912.05

APPROVED: NOV 0 1 2001

EXPIRES: 10/09/2008

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE
- 1.1 This renews and revises the Notice of Acceptance No. 00-0913.07, which was issued on 12/07/2000. It approves wood connectors, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the design load indicated in the approved drawings.
2. PRODUCT DESCRIPTION
- 2.1 The USP Wood Connectors shall be fabricated and used in strict compliance with the following documents: Drawing No. MDADE and sheets 1 of 1, titled "RT AND TA SERIES", prepared by United Steel Products Company, dated 10/06/00 with no revisions. The drawings shall bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.
3. LIMITATIONS
- 3.1 Allowable loads are for Southern Yellow Pine or better with a specific gravity of 0.55 and moisture content of 19% or less.
- 3.2 Allowable loads are based on testing per ASTM D1761 and calculations per National Design Specifications for Wood Construction 1991 Edition & 1993 Errata.
4. INSTALLATION
- 4.1 The wood connectors shall be installed in strict compliance with the approved drawings.
5. LABELING
- 5.1 Each wood connector shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".
6. BUILDING PERMIT
- 6.1 Application for Building Permit shall be accompanied by copies of the following:
 - 6.1.1 This Notice of Acceptance
 - 6.1.2 Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance, clearly marked to show the hangers and angles selected for the proposed installation.
 - 6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.

Candido Font, PE, Sr. Product Control Examiner
Product Control Division

United Steel Products Company.

ACCEPTANCE NO: 01-0912.05

APPROVED: NOV 0 1 2001

EXPIRES: 10/09/2008

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not resubmit the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

GENERAL NOTES

1. STEEL SHALL CONFORM TO ASTM A36.
2. FASTENERS SHALL BE AS FOLLOWS:
3. ALL DIMENSIONS ARE GIVEN IN INCHES.
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RT AND TA SERIES
14 GAUGE

| Product Code | Dimension | Fasteners | Allowable Load |
|--------------|-----------|-----------|----------------|
| RT10 | 10" | 8 | 240 |
| RT12 | 12" | 8 | 480 |
| RT14 | 14" | 8 | 720 |
| RT16 | 16" | 8 | 960 |
| RT18 | 18" | 8 | 1200 |
| RT20 | 20" | 8 | 1440 |
| RT22 | 22" | 8 | 1680 |
| RT24 | 24" | 8 | 1920 |
| RT26 | 26" | 8 | 2160 |
| RT28 | 28" | 8 | 2400 |
| RT30 | 30" | 8 | 2640 |
| RT32 | 32" | 8 | 2880 |
| RT34 | 34" | 8 | 3120 |
| RT36 | 36" | 8 | 3360 |
| RT38 | 38" | 8 | 3600 |
| RT40 | 40" | 8 | 3840 |
| RT42 | 42" | 8 | 4080 |
| RT44 | 44" | 8 | 4320 |
| RT46 | 46" | 8 | 4560 |
| RT48 | 48" | 8 | 4800 |
| RT50 | 50" | 8 | 5040 |
| RT52 | 52" | 8 | 5280 |
| RT54 | 54" | 8 | 5520 |
| RT56 | 56" | 8 | 5760 |
| RT58 | 58" | 8 | 6000 |
| RT60 | 60" | 8 | 6240 |
| RT62 | 62" | 8 | 6480 |
| RT64 | 64" | 8 | 6720 |
| RT66 | 66" | 8 | 6960 |
| RT68 | 68" | 8 | 7200 |
| RT70 | 70" | 8 | 7440 |
| RT72 | 72" | 8 | 7680 |
| RT74 | 74" | 8 | 7920 |
| RT76 | 76" | 8 | 8160 |
| RT78 | 78" | 8 | 8400 |
| RT80 | 80" | 8 | 8640 |
| RT82 | 82" | 8 | 8880 |
| RT84 | 84" | 8 | 9120 |
| RT86 | 86" | 8 | 9360 |
| RT88 | 88" | 8 | 9600 |
| RT90 | 90" | 8 | 9840 |
| RT92 | 92" | 8 | 10080 |
| RT94 | 94" | 8 | 10320 |
| RT96 | 96" | 8 | 10560 |
| RT98 | 98" | 8 | 10800 |
| RT100 | 100" | 8 | 11040 |

TA AND TA SERIES
14 GAUGE

| Product Code | Dimension | Fasteners | Allowable Load |
|--------------|-----------|-----------|----------------|
| TA10 | 10" | 8 | 240 |
| TA12 | 12" | 8 | 480 |
| TA14 | 14" | 8 | 720 |
| TA16 | 16" | 8 | 960 |
| TA18 | 18" | 8 | 1200 |
| TA20 | 20" | 8 | 1440 |
| TA22 | 22" | 8 | 1680 |
| TA24 | 24" | 8 | 1920 |
| TA26 | 26" | 8 | 2160 |
| TA28 | 28" | 8 | 2400 |
| TA30 | 30" | 8 | 2640 |
| TA32 | 32" | 8 | 2880 |
| TA34 | 34" | 8 | 3120 |
| TA36 | 36" | 8 | 3360 |
| TA38 | 38" | 8 | 3600 |
| TA40 | 40" | 8 | 3840 |
| TA42 | 42" | 8 | 4080 |
| TA44 | 44" | 8 | 4320 |
| TA46 | 46" | 8 | 4560 |
| TA48 | 48" | 8 | 4800 |
| TA50 | 50" | 8 | 5040 |
| TA52 | 52" | 8 | 5280 |
| TA54 | 54" | 8 | 5520 |
| TA56 | 56" | 8 | 5760 |
| TA58 | 58" | 8 | 6000 |
| TA60 | 60" | 8 | 6240 |
| TA62 | 62" | 8 | 6480 |
| TA64 | 64" | 8 | 6720 |
| TA66 | 66" | 8 | 6960 |
| TA68 | 68" | 8 | 7200 |
| TA70 | 70" | 8 | 7440 |
| TA72 | 72" | 8 | 7680 |
| TA74 | 74" | 8 | 7920 |
| TA76 | 76" | 8 | 8160 |
| TA78 | 78" | 8 | 8400 |
| TA80 | 80" | 8 | 8640 |
| TA82 | 82" | 8 | 8880 |
| TA84 | 84" | 8 | 9120 |
| TA86 | 86" | 8 | 9360 |
| TA88 | 88" | 8 | 9600 |
| TA90 | 90" | 8 | 9840 |
| TA92 | 92" | 8 | 10080 |
| TA94 | 94" | 8 | 10320 |
| TA96 | 96" | 8 | 10560 |
| TA98 | 98" | 8 | 10800 |
| TA100 | 100" | 8 | 11040 |

Notes:

1. L1 and L2 are loads applied perpendicular to bearing wall.
2. Minimum embedment of 4" is required.
3. Allowable loads for L1 and L2 are not to be combined.
4. Minimum nail penetration 1 1/2"

UNITED STEEL PRODUCTS COMPANY
10000 W. 11th Ave., Suite 100
Miami, FL 33156
Phone: (305) 555-1234
Fax: (305) 555-1235
E-Mail: info@usp.com
Website: www.usp.com

RT AND TA SERIES
10/06/00
Candido Font, PE, Sr. Product Control Examiner
Product Control Division

G. V. PIREZ ASSOCIATES, INC.
Consulting Engineers
1385 Coral Way #202
MIAMI, FL 33145-2941
Phone (305) 854-4104
Fax (305) 856-2076

PROJECT: FREHLING RESIDENCE
SHEET NO: 1-2
CALCULATED BY: GVP
DATE: 2-6-03
CHECKED BY: _____
DATE: _____
SCALE: _____

SADDLE UPLIFT CONNECTION

3/4" MULTI KNUK BOLTS

5" MIN. PENETRATION (6" BOLTS)

ALLOW. SHEAR = 5,120*

REDUCTION FOR EDGE DIST.

FIRST ROW FROM TOP

C/C = 6" → .61

6" EDGE DIST. → .70

(2) 5,120* × .61 × 1.33 = 8,307* × .80
USE 6.650*

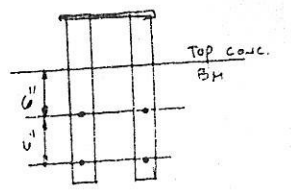
LOWER ROW (2) 5,120* × .61 × 1.33 = 8,307* × .80
USE 12.350* (2 MEMS)

TOP BEARING:
BEARING ⊥ TO GRAIN (TENSILE) - CRUSHING

ALLOW. BEARING ⊥ TO GRAIN: 6600*

2 PL 4" × 3" × 660 × 1.33 = 12,334* → 0.6 W/ 4 BOLTS
3 PL 4" × 5" × " × " = 15,200* → 0.6 W/ 4 BOLTS

PL 6600*
RATE: 3 MEMBERS: $T = 12.75 \times 2 = 6.38$ USE 1/4" FOR 2 PL.
ANOD. $T/P_L = \frac{6.38}{20 \times 1.33} = 0.245$ USE 1/4" × 4" = 1.051 0.10



G. V. PIREZ ASSOCIATES, INC.
Consulting Engineers
7315 SW 87th Ave. # 100
Miami, Florida 33173
PHONE: (305) 412-2200
FAX: (305) 412-2011

PROJECT: FREHLING RESIDENCE
SHEET NO: 1-2
CALCULATED BY: GVP
DATE: 10-8-02
CHECKED BY: _____
DATE: _____
SCALE: _____

2 STORY RESIDENTIAL ADDITION (1ST AND 2ND LEVEL EXISTING)

ASCE 7-98

V = 146 MPH

EXP. = 'C'

I = 1.0

ROOF MEAN HT = 22.0'

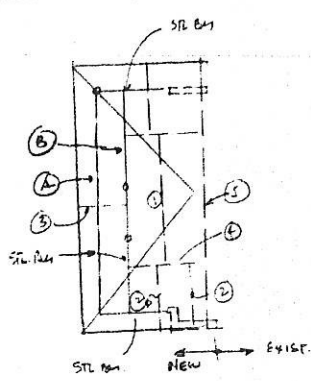
$\phi = 15^\circ$

$Q = 0.00276 K_z K_d V^2 I$

$K_d = 1.0$

$K_z = 0.92$

$Q_w = 0.00276 \times 0.92 \times 1 \times 146^2 \times 1 = 50.2 \text{ PSF}$



ROOF PLAN

ROOF TRUSSES:

DL = 20 PSF

LL = 30 PSF

TL = 15 PSF

STEEL BM. (A)

L = 28.5'

LOADING: $5 \times 0.60 \text{ PSF} = 0.30 \text{ k/ft}$
 $P_u = \frac{0.05}{0.35 \text{ k/ft}}$

$W_c = 28.5' \times 0.35 \text{ k/ft} = 10.0 \text{ k}$

[Signature]
10-8-02

G. V. PIREZ ASSOCIATES, INC.
Consulting Engineers
7315 SW 87th Ave. # 100
Miami, Florida 33173
PHONE: (305) 412-2200
FAX: (305) 412-2011

PROJECT: Frehling Residence
SHEET: 2
CALCULATED BY: GVP
DATE: 10-8-02
CHECKED BY: _____
DATE: _____
SCALE: 1/2" = 1'-0"

Try W12x26, 5.22 k

$M_c = 21' > 10' \text{ OK}$

$A_{req} = \frac{4}{2.00} = \frac{28.5 \times 12}{360} = 0.95$

$\Delta = \frac{10}{21} \times 0.95 = 0.45 \text{ in. OK}$

WIND: $T.L. = 28.5/3 = 9.5 \text{ ft}$

Zone 3 → $GCP = -1$

$S/P_L = 0.12$

$P = 50.2 \times [1 + 1.2]$

$= 50.2 \times 2.2 = 110.4 \text{ PSF}$

Roof → $+ 50.2 \text{ PSF} \times 2.5' = -125.5 \text{ PSF}$

Overhang → $-112.0' \times 2.5' = -280.0$

$L = \frac{146.3 \times 2.5}{2} = 47'$

BRACING = 12.0'

$W_c = 50' \times 1.33 = 67' \times 47' \text{ OK FOR UPLIFT}$

Use W12x26

$C = 0.35' \times 28.5/2 = 5.0'$