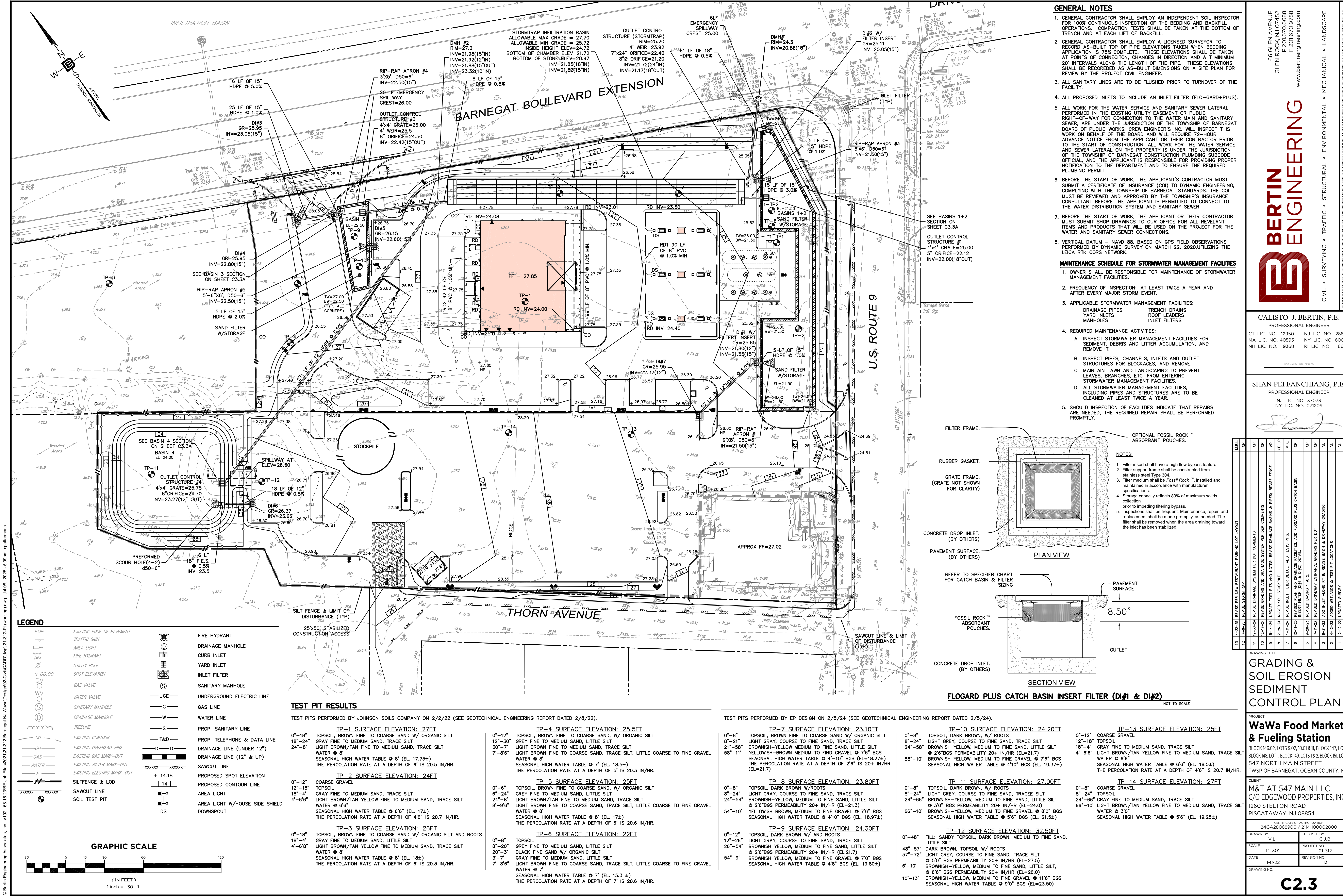


- ### GENERAL NOTES
- PLAN IS BASED ON A DRAWING TITLED "ALTA/NSPS LAND TITLE SURVEY" "PROJECT EP DESIGN SERVICES, BLOCK 146.02, LOTS 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 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.

- ### TRAFFIC SIGN LEGEND
- ALL TRAFFIC SIGNS MUST CONFORM IN FACE DESIGN AND CONSTRUCTION TO SPECIFICATIONS FOUND IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, U.S.D.O.T. AND FEDERAL HIGHWAY ADMINISTRATION, SPECIFICALLY, REGULATORY & WARNING SIGNS SHALL BE FABRICATED OF FLAT ALUMINUM SHEETS AND SHALL BE COVERED WITH DIAMOND GRADE REFLECTIVE SHEETING, SERIES 4000 TYPE XI DESIGNATION PER ASTM.
- | Symbol | Symbol | Symbol | Symbol | Symbol | Symbol |
|--------|--------|--------|--------|--------|--------|
| A      | B      | C      | D      | E      | F      |
| G      | H      | I      | J      | K      | L      |
| M      | N      | O      | P      | Q      | R      |
| S      | T      | U      | V      | W      | X      |
| Y      | Z      | AA     | AB     | AC     | AD     |
| AE     | AF     | AG     | AH     | AI     | AJ     |
| AK     | AL     | AM     | AN     | AO     | AP     |
| AQ     | AR     | AS     | AT     | AU     | AV     |
| AW     | AX     | AY     | AZ     | BA     | BB     |
| BC     | BD     | BE     | BF     | BG     | BH     |
| BI     | BJ     | BK     | BL     | BM     | BN     |
| BO     | BP     | BQ     | BR     | BS     | BT     |
| BU     | BV     | BW     | BX     | BY     | BZ     |
| CA     | CB     | CC     | CD     | CE     | CF     |
| CG     | CH     | CI     | CJ     | CK     | CL     |
| CM     | CN     | CO     | CP     | CQ     | CR     |
| CS     | CT     | CU     | CV     | CW     | CX     |
| CY     | CZ     | DA     | DB     | DC     | DD     |
| DE     | DF     | DG     | DH     | DI     | DJ     |
| DK     | DL     | DM     | DN     | DO     | DP     |
| DQ     | DR     | DS     | DT     | DU     | DV     |
| DW     | DX     | DY     | DZ     | EA     | EB     |
| EC     | ED     | EE     | EF     | EG     | EH     |
| EI     | EJ     | EK     | EL     | EM     | EN     |
| EO     | EP     | EQ     | ER     | ES     | ET     |
| EU     | EV     | EW     | EX     | EY     | EZ     |
| FA     | FB     | FC     | FD     | FE     | FF     |
| FG     | FH     | FI     | FJ     | FK     | FL     |
| FM     | FN     | FO     | FP     | FQ     | FR     |
| FS     | FT     | FU     | FV     | FW     | FX     |
| FY     | FZ     | GA     | GB     | GC     | GD     |
| GE     | GF     | GG     | GH     | GI     | GJ     |
| GK     | GL     | GM     | GN     | GO     | GP     |
| GQ     | GR     | GS     | GT     | GU     | GV     |
| GW     | GX     | GY     | GA     | GB     | GC     |
| GD     | GE     | GF     | GG     | GH     | GI     |
| GI     | GJ     | GK     | GL     | GM     | GN     |
| GO     | GP     | GQ     | GR     | GS     | GT     |
| GU     | GV     | GW     | GX     | GY     | GA     |
| GB     | GC     | GD     | GE     | GF     | GG     |
| GH     | GI     | GJ     | GK     | GL     | GM     |
| GN     | GO     | GP     | GQ     | GR     | GS     |
| GT     | GU     | GV     | GW     | GX     | GY     |
| GA     | GB     | GC     | GD     | GE     | GF     |
| GG     | GH     | GI     | GJ     | GK     | GL     |
| GM     | GN     | GO     | GP     | GQ     | GR     |
| GS     | GT     | GU     | GV     | GW     | GX     |
| GY     | GA     | GB     | GC     | GD     | GE     |
| GF     | GG     | GH     | GI     | GJ     | GK     |
| GL     | GM     | GN     | GO     | GP     | GQ     |
| GR     | GS     | GT     | GU     | GV     | GW     |
| GX     | GY     | GA     | GB     | GC     | GD     |
| GE     | GF     | GG     | GH     | GI     | GJ     |
| GK     | GL     | GM     | GN     | GO     | GP     |
| GQ     | GR     | GS     | GT     | GU     | GV     |
| GW     | GX     | GY     | GA     | GB     | GC     |
| GD     | GE     | GF     | GG     | GH     | GI     |
| GI     | GJ     | GK     | GL     | GM     | GN     |
| GO     | GP     | GQ     | GR     | GS     | GT     |
| GU     | GV     | GW     | GX     | GY     | GA     |
| GB     | GC     | GD     | GE     | GF     | GG     |
| GH     | GI     | GJ     | GK     | GL     | GM     |
| GN     | GO     | GP     | GQ     | GR     | GS     |
| GT     | GU     | GV     | GW     | GX     | GY     |
| GA     | GB     | GC     | GD     | GE     | GF     |
| GG     |        |        |        |        |        |





**LEGEND**

EOP

EXISTING EDGE OF PAVEMENT

TRAFFIC SIGN

AREA LIGHT

FIRE HYDRANT

UTILITY POLE

SPOT ELEVATION

GAS VALVE

WATER VALVE

SANITARY MANHOLE

DRAINAGE MANHOLE

TREELINE

EXISTING OVERHEAD WIRE

GAS

EXISTING WATER MARK-OUT

WATER

EXISTING ELECTRIC MARK-OUT

SILTENCE & LOD

SAWCUT LINE

SOIL TEST PIT

FIRE HYDRANT

DRAINAGE MANHOLE

CURB INLET

YARD INLET

INLET FILTER

SANITARY MANHOLE

UNDERGROUND ELECTRIC LINE

GAS LINE

WATER LINE

PROP. SANITARY LINE

PROP. TELEPHONE & DATA LINE

DRAINAGE LINE (UNDER 12")

DRAINAGE LINE (12" & UP)

SAWCUT LINE

PROPOSED SPOT ELEVATION

PROPOSED CONTOUR LINE

AREA LIGHT

AREA LIGHT W/HOUSE SIDE SHIELD

DOWNSPOUT

**GRAPHIC SCALE**

0 15 30 60 90 120

(IN FEET)

1 inch = 30 ft.

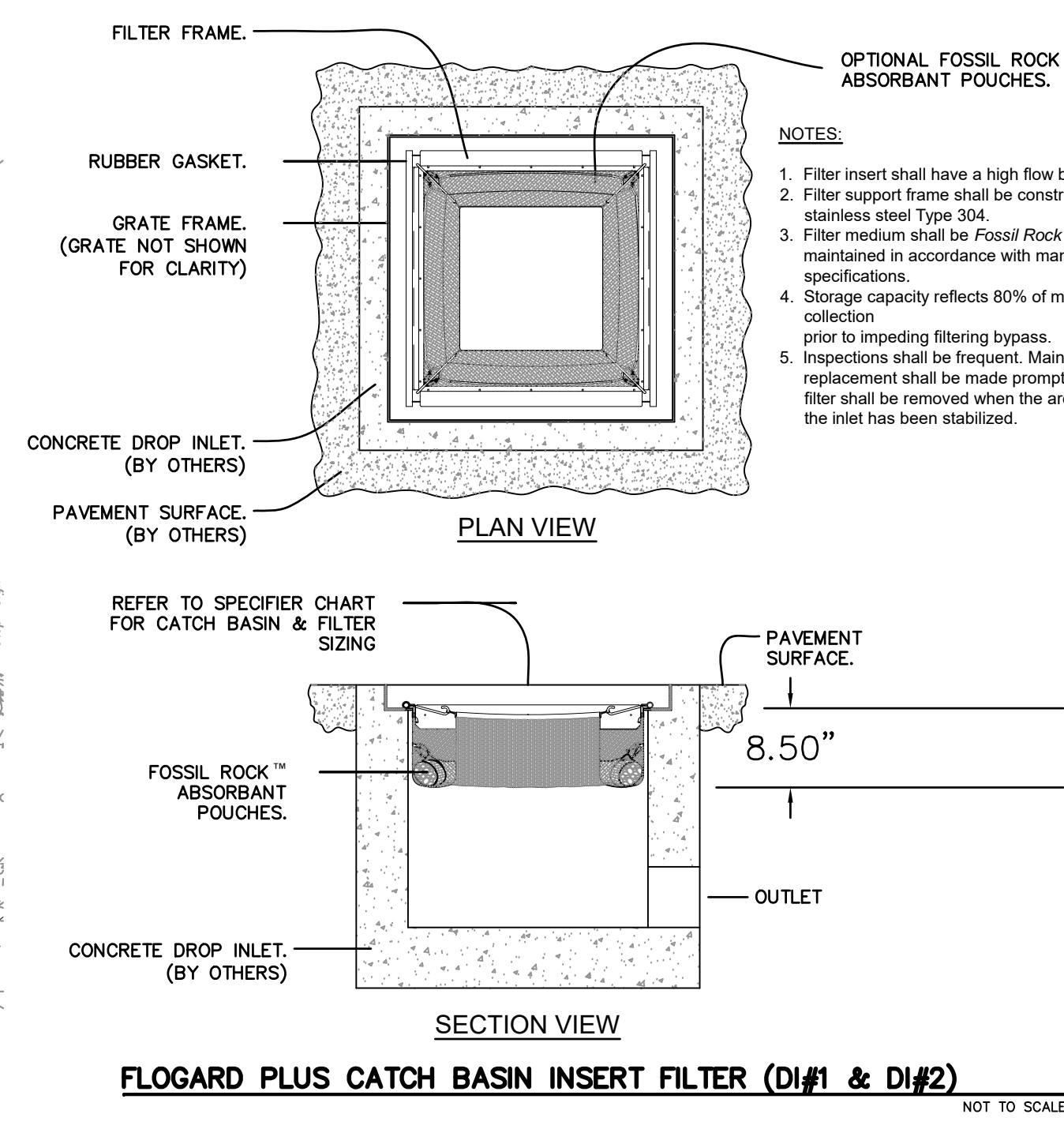
TEST PIT RESULTS	
TEST PITS PERFORMED BY JOHNSON SOILS COMPANY ON 2/2/22 (SEE GEOTECHNICAL ENGINEERING REPORT DATED 2/8/22).	
0'-18" 12'-24" 24'-6"	TP-1 SURFACE ELEVATION: 27.01 TOPSOIL, BROWN FINE TO COARSE SAND W/ ORGANIC SILT GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT WATER @ 8" SEASONAL HIGH WATER TABLE @ 8" (EL. 17.75±) THE PERCOLATION RATE AT A DEPTH OF 6" IS 20.5 IN/HR.
0'-12" 12'-18" 4'-6"	TP-2 SURFACE ELEVATION: 24.01 TOPSOIL, BROWN FINE TO COARSE SAND, W/ ORGANIC SILT GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT WATER @ 6" SEASONAL HIGH WATER TABLE @ 6" (EL. 17.4±) THE PERCOLATION RATE AT A DEPTH OF 4" IS 20.7 IN/HR.
0'-18" 18'-4" 4'-6"	TP-3 SURFACE ELEVATION: 26.01 TOPSOIL, BROWN FINE TO COARSE SAND W/ ORGANIC SILT AND ROOTS GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT WATER @ 8" SEASONAL HIGH WATER TABLE @ 8" (EL. 18±) THE PERCOLATION RATE AT A DEPTH OF 6" IS 20.3 IN/HR.
0'-12" 12'-30" 7'-6"	TP-4 SURFACE ELEVATION: 25.01 TOPSOIL, BROWN FINE TO COARSE SAND, W/ ORGANIC SILT GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN FINE TO COARSE SAND, TRACE SILT, LITTLE COARSE TO FINE GRAVEL WATER @ 8" SEASONAL HIGH WATER TABLE @ 7" (EL. 18.5±) THE PERCOLATION RATE AT A DEPTH OF 5" IS 20.3 IN/HR.
0'-6" 8'-20" 24'-54" 8'-9"	TP-5 SURFACE ELEVATION: 25.01 TOPSOIL, BROWN FINE TO COARSE SAND, W/ ORGANIC SILT GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT, LITTLE COARSE TO FINE GRAVEL WATER @ 8" SEASONAL HIGH WATER TABLE @ 8" (EL. 17.4±) THE PERCOLATION RATE AT A DEPTH OF 6" IS 20.6 IN/HR.
0'-8" 8'-20" 20'-3" 3'-7" 7'-6"	TP-6 SURFACE ELEVATION: 22.01 TOPSOIL, BROWN FINE TO COARSE SAND, W/ ORGANIC SILT GRAY FINE TO MEDIUM SAND, TRACE SILT, LITTLE COARSE TO FINE GRAVEL WATER @ 7" SEASONAL HIGH WATER TABLE @ 7" (EL. 15.3 ±) THE PERCOLATION RATE AT A DEPTH OF 7" IS 20.6 IN/HR.

TEST PITS PERFORMED BY EP DESIGN ON 2/5/24 (SEE GEOTECHNICAL ENGINEERING REPORT DATED 2/5/24).	
0'-8" 8'-24" 24'-58" 58'-11"	TP-7 SURFACE ELEVATION: 23.01 TOPSOIL, BROWN FINE TO COARSE SAND W/ ORGANIC SILT LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT BROWNISH-YELLOW MEDIUM TO FINE SAND, LITTLE SILT YELLOWISH-BROWN MEDIUM TO FINE GRAVEL @ 7" BGS SEASONAL HIGH WATER TABLE @ 4'-10" BGS (EL=18.27±) THE PERCOLATION RATE AT A DEPTH OF 2'6" IS 20+ IN/HR. (EL=21.7)
0'-8" 8'-24" 24'-54" 54'-10"	TP-8 SURFACE ELEVATION: 23.80 TOPSOIL, DARK BROWN W/ROOTS LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT BROWNISH-YELLOW, MEDIUM TO FINE SAND, LITTLE SILT @ 2'6" BGS PERMEABILITY 20+ IN/HR (EL=21.3) YELLOWISH BROWN, MEDIUM TO FINE GRAVEL @ 8" BGS SEASONAL HIGH WATER TABLE @ 4'10" BGS (EL. 18.97±)
0'-12" 12'-26" 26'-54" 57'-72" 54'-9"	TP-9 SURFACE ELEVATION: 24.30 TOPSOIL, DARK BROWN W/ROOTS LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT BROWNISH-YELLOW, MEDIUM TO FINE SAND, LITTLE SILT @ 2'6" BGS PERMEABILITY 20+ IN/HR (EL=21.7) BROWNISH-YELLOW, MEDIUM TO FINE GRAVEL @ 7" BGS SEASONAL HIGH WATER TABLE @ 4'8" BGS (EL. 19.80±)
0'-8" 8'-24" 24'-58" 58'-10"	TP-10 SURFACE ELEVATION: 24.20 TOPSOIL, DARK BROWN, W/ ROOTS LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT BROWNISH-YELLOW, MEDIUM TO FINE SAND, LITTLE SILT @ 2'6" BGS PERMEABILITY 20+ IN/HR (EL=21.7) BROWNISH-YELLOW, MEDIUM TO FINE GRAVEL @ 7" BGS SEASONAL HIGH WATER TABLE @ 4'10" BGS (EL. 19.37±)
0'-8" 8'-24" 24'-56" 66'-10"	TP-11 SURFACE ELEVATION: 27.00 TOPSOIL, DARK BROWN, W/ ROOTS LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT BROWNISH-YELLOW, MEDIUM TO FINE SAND, LITTLE SILT @ 2'6" BGS PERMEABILITY 20+ IN/HR (EL=21.7) BROWNISH-YELLOW, MEDIUM TO FINE GRAVEL @ 8" BGS SEASONAL HIGH WATER TABLE @ 5'6" BGS (EL. 21.5±)
0'-12" 12'-18" 4'-6"	TP-12 SURFACE ELEVATION: 32.50 FILL: SANDY TOPSOIL, DARK BROWN, MEDIUM TO FINE SAND, LITTLE SILT DARK BROWN, TOPSOIL W/ ROOTS LIGHT GRAY, COARSE TO FINE SAND, TRACE SILT @ 5'0" BGS PERMEABILITY 20+ IN/HR (EL=27.5) BROWNISH-YELLOW, MEDIUM TO FINE SAND, LITTLE SILT, @ 8" BGS PERMEABILITY 20+ IN/HR (EL=26.0) BROWNISH-YELLOW, MEDIUM TO FINE GRAVEL @ 11" BGS SEASONAL HIGH WATER TABLE @ 9'0" BGS (EL=23.50)
0'-12" 12'-18" 4'-6"	TP-13 SURFACE ELEVATION: 25.01 TOPSOIL, BROWN FINE TO COARSE SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT WATER @ 6" SEASONAL HIGH WATER TABLE @ 6"6" (EL. 18.5±) THE PERCOLATION RATE AT A DEPTH OF 4" IS 20.7 IN/HR.
0'-8" 8'-24" 24'-56" 66'-10"	TP-14 SURFACE ELEVATION: 27.01 TOPSOIL, BROWN FINE TO COARSE SAND, TRACE SILT GRAY FINE TO MEDIUM SAND, TRACE SILT LIGHT BROWN/TAN FINE TO MEDIUM SAND, TRACE SILT WATER @ 3'0" SEASONAL HIGH WATER TABLE @ 5'6" (EL. 19.25±)

- GENERAL NOTES**

  - GENERAL CONTRACTOR SHALL EMPLOY AN INDEPENDENT SOIL INSPECTOR FOR 100% CONTINUOUS INSPECTION OF THE BEDDING AND BACKFILL OPERATIONS. COMPACTION TESTS SHALL BE TAKEN AT THE BOTTOM OF TRENCH AND AT EACH LIFT OF BACKFILL.
  - GENERAL CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO RECORD AS-BUILT TOP OF PIPE ELEVATIONS TAKEN WHEN BEDDING APPLICATION IS 75% COMPLETE. THESE ELEVATIONS SHALL BE TAKEN AT POINTS OF CONNECTION, CHANGES IN DIRECTION AND A MINIMUM 20' INTERVALS ALONG THE LENGTH OF THE PIPE. THESE ELEVATIONS SHALL BE RECORDED AS AS-BUILT DIMENSIONS ON A SITE PLAN FOR REVIEW BY THE PROJECT CIVIL ENGINEER.
  - ALL SANITARY LINES ARE TO BE FLUSHED PRIOR TO TURNOVER OF THE FACILITY.
  - ALL PROPOSED INLETS TO INCLUDE AN INLET FILTER (FLO-GARD+PLUS).
  - ALL WORK FOR THE WATER SERVICE AND SANITARY SEWER LATERAL PERFORMED IN THE EXISTING UTILITY EASEMENT OR PUBLIC RIGHT-OF-WAY FOR CONNECTION TO THE WATER MAIN AND SANITARY SEWER, ARE UNDER THE JURISDICTION OF THE TOWNSHIP OF BARNEGAT BOARD OF PUBLIC WORKS. CREW ENGINEER'S INC. WILL INSPECT THIS WORK ON BEHALF OF THE BOARD AND WILL REQUIRE 72-HOUR ADVANCE NOTICE FROM THE APPLICANT OR THEIR CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ALL WORK FOR THE WATER SERVICE AND SEWER LATERAL ON THE PROPERTY IS UNDER THE JURISDICTION OF THE TOWNSHIP OF BARNEGAT CONSTRUCTION PLUMBING SUBCODE OFFICIAL, AND THE APPLICANT IS RESPONSIBLE FOR PROVIDING PROPER NOTIFICATION TO THE DEPARTMENT AND TO ENSURE THE REQUIRED PLUMBING PERMIT.
  - BEFORE THE START OF WORK, THE APPLICANT'S CONTRACTOR MUST SUBMIT A CERTIFICATE OF INSURANCE (COI) TO DYNAMIC ENGINEERING, COMPLYING WITH THE TOWNSHIP OF BARNEGAT STANDARDS. THE COI MUST BE REVIEWED AND APPROVED BY THE TOWNSHIP'S INSURANCE CONSULTANT BEFORE THE APPLICANT IS PERMITTED TO CONNECT TO THE WATER DISTRIBUTION SYSTEM AND SANITARY SEWER.
  - BEFORE THE START OF WORK, THE APPLICANT OR THEIR CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO OUR OFFICE FOR ALL RELEVANT ITEMS AND PRODUCTS THAT WILL BE USED ON THE PROJECT FOR THE WATER AND SANITARY SEWER CONNECTIONS.
  - VERTICAL DATUM - NAVD 88, BASED ON GPS FIELD OBSERVATIONS PERFORMED BY DYNAMIC SURVEY ON MARCH 22, 2020, UTILIZING THE LEICA RTK CORRS NETWORK.
- MAINTENANCE SCHEDULE FOR STORMWATER MANAGEMENT FACILITIES**

  - OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF STORMWATER MANAGEMENT FACILITIES.
  - FREQUENCY OF INSPECTION: AT LEAST TWICE A YEAR AND AFTER EVERY MAJOR STORM EVENT.
  - APPLICABLE STORMWATER MANAGEMENT FACILITIES:  
DRAINAGE PIPES  
YARD INLETS  
MANHOLES  
TRENCH DRAINS  
ROOF LEADERS  
INLET FILTERS
  - REQUIRED MAINTENANCE ACTIVITIES:  
A. INSPECT STORMWATER MANAGEMENT FACILITIES FOR SEDIMENT, DEBRIS AND LITTER ACCUMULATION, AND REMOVE IT.  
B. INSPECT PIPES, CHANNELS, INLETS AND OUTLET STRUCTURES FOR BLOCKAGES, AND REMOVE.  
C. MAINTAIN LAWN AND LANDSCAPING TO PREVENT LEAVES, BRANCHES, ETC. FROM ENTERING STORMWATER MANAGEMENT FACILITIES.  
D. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING PIPES AND STRUCTURES ARE TO BE CLEANED AT LEAST TWICE A YEAR.
  - SHOULD INSPECTION OF FACILITIES INDICATE THAT REPAIRS ARE NEEDED, THE REQUIRED REPAIR SHALL BE PERFORMED PROMPTLY.



**BERTIN ENGINEERING**

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MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

**SHAN-PEI FANCHIANG, P.E.**  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

NO.	DATE	REVISION
1	12-12-22	REVISED SURVEY
2	12-12-22	ADDED METADANCE & TEST PIT LOCATIONS
3	6-21-23	ADD INLET ALONG RT 9; REUSE BASIN & DRIVEWAY GRADING
5	9-28-23	REVISED BASINS 1 & 2
7	12-11-23	REVISED DRIVEWAY ENTRANCE GRADING PER DOT
9	2-28-24	REVISED PLAN AND DRAINAGE FACILITIES, ADD FLOGARD PLUS CATCH BASIN
11	12-17-24	REVISED GRADING AND DRAINAGE SYSTEM PER DOT COMMENTS
12	12-17-24	REVISED DRAINAGE SYSTEM PER DOT COMMENTS
13	4-22-25	REVISED PER NEW RESTAURANT PARKING LOT LAYOUT

**GRADING & SOIL EROSION SEDIMENT CONTROL PLAN**

**PROJECT**  
**WaWa Food Market & Fueling Station**  
BLOCK 146.02, LOTS 9.02, 10.01 & 11. BLOCK 147, LOT 1  
BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1  
547 NORTH MAIN STREET  
TWP OF BARNEGAT, OCEAN COUNTY, NJ

**CLIENT**  
M&T AT 547 MAIN LLC  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

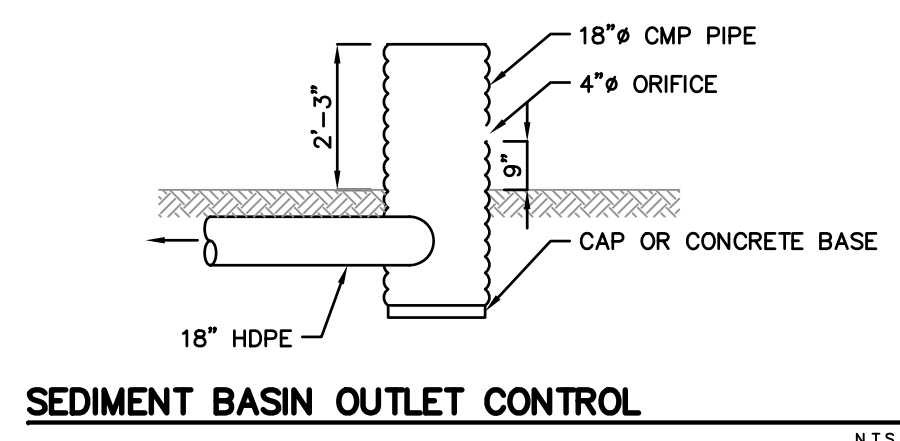
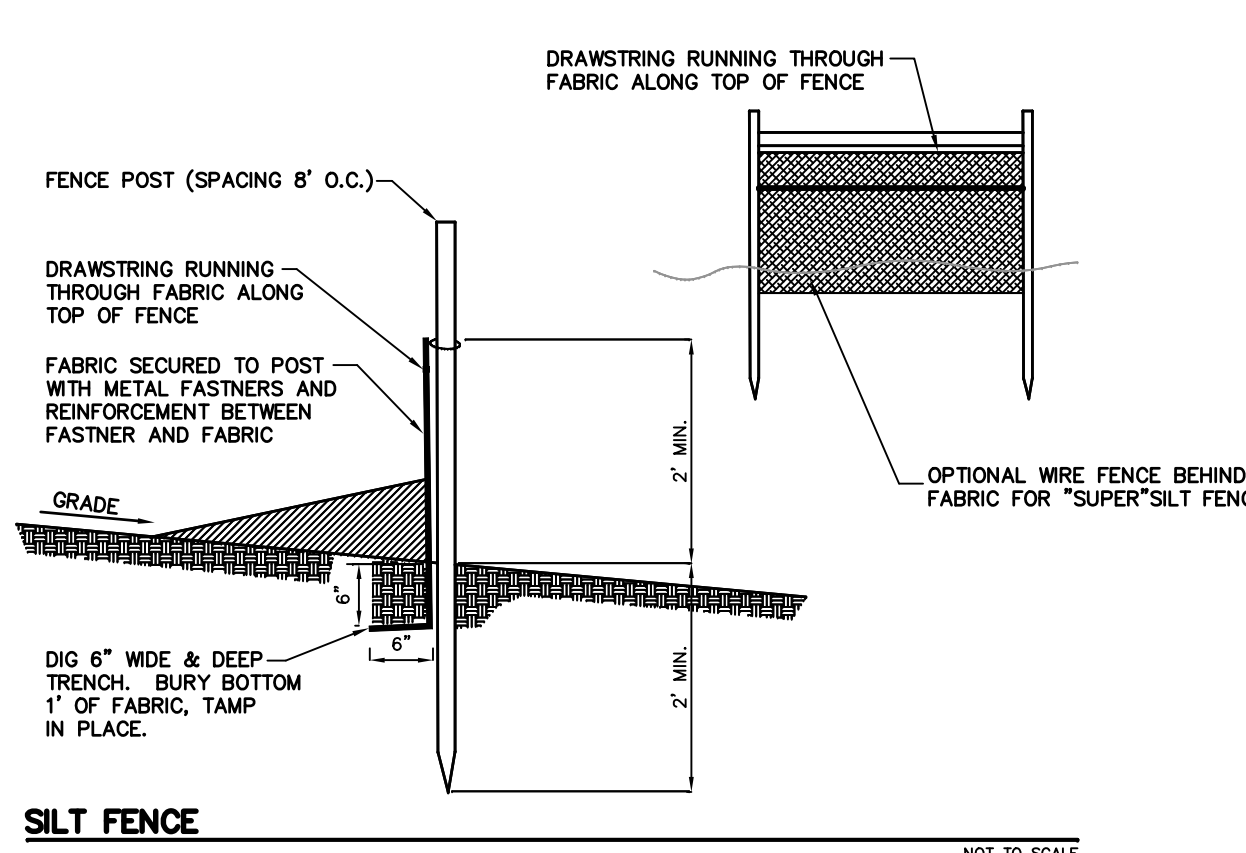
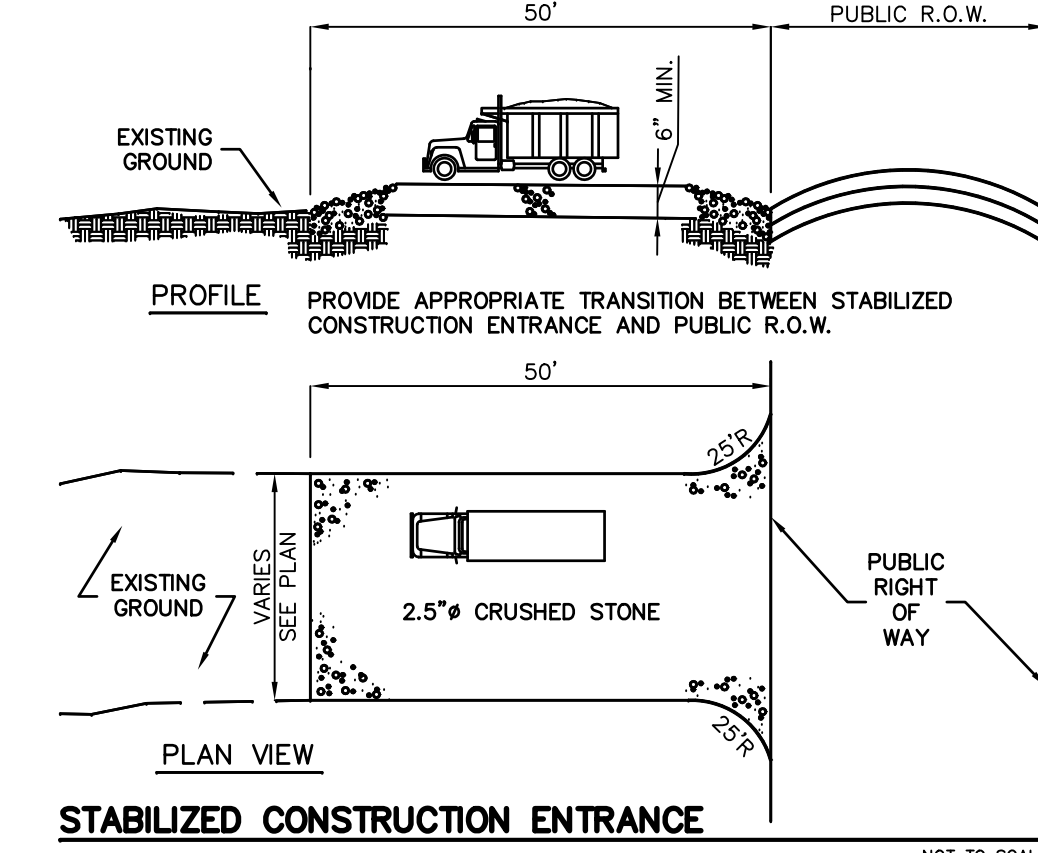
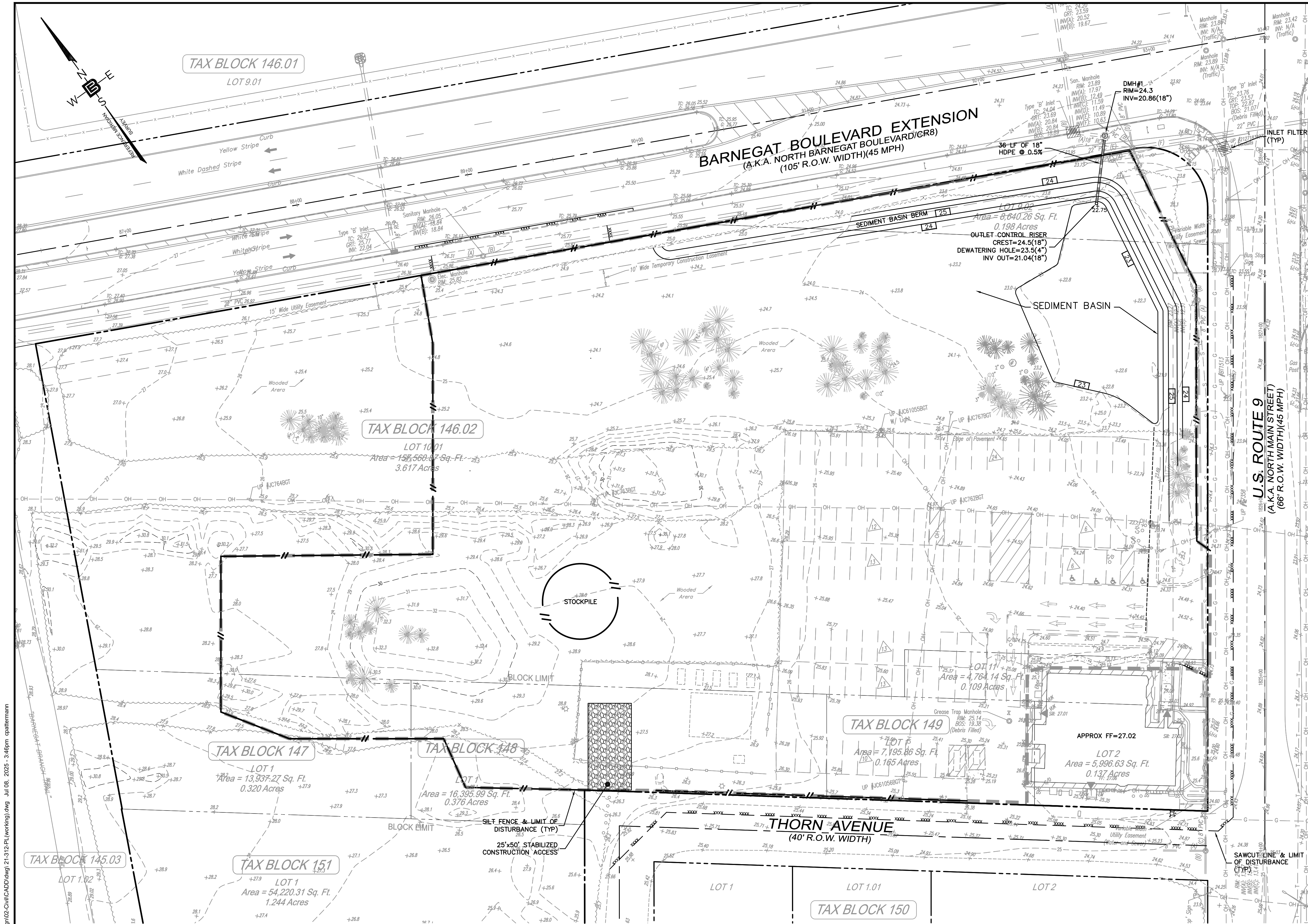
**CERTIFICATE OF AUTHORIZATION**  
24GA28068900 / 24MH00002800

**DRAWN BY** V.L. **CHECKED BY** C.J.B.  
**SCALE** 1"=30' **PROJECT NO.** 21-312  
**DATE** 11-8-22 **REVISION NO.** 13  
**DRAWING NO.**

**C2.3**



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#### MAINTENANCE FOR SEDIMENT BARRIER

1. SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF 1/3 THE BARRIER HEIGHT.
2. REPAIR OR REPLACE BARRIER (FABRIC, POSTS, BALES ETC.) WHEN DAMAGED.
3. BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.

#### REQUIREMENT & MAINTENANCE FOR STABILIZED CONSTRUCTION ENTRANCE

1. INDIVIDUAL LOT ENTRANCE AND EGRESS - AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOT INGRESS/EGRESS POINTS MAY REQUIRE STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF NO.3 STONE (1" TO 2") TO PREVENT OR MINIMIZE TRACKING OF SEDIMENTS. WIDTH OF THE STONE INGRESS/EGRESS SHALL BE EQUAL TO LOT ENTRANCE WIDTH AND SHALL BE MINIMUM OF TEN FEET IN LENGTH.
2. TIRE WASHING- IF SPACE IS LIMITED, VEHICLE TIRES MAY BE WASHED WITH CLEAN WATER BEFORE ENTERING A PAVED AREA. A WASH STATION MUST BE LOCATED SUCH THAT WASH WATER WILL NOT FLOW ONTO PAVED ROADWAYS OR INTO UNPROTECTED STORM DRAINAGE SYSTEMS.
3. WHEN THE CONSTRUCTION ACCESS EXISTS ONTO A MAJOR ROADWAY, A PAVED TRANSITION AREA MAY BE INSTALLED BETWEEN THE MAJOR ROADWAY AND THE STONED ENTRANCE TO PREVENT LOOSE STONES FROM BEING TRANSPORTED OUT ONTO THE ROADWAY BY HEAVY EQUIPMENT ENTERING OR LEAVING THE SITE.
4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTHS AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
5. WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE BLOCKED OFF.

#### OCEAN COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE DISTRICT INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION, JANUARY 2014, REVISED JULY 2017.(SESC STANDARDS)
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE SESC STANDARDS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE REVISED PLANS MUST MEET ALL CURRENT SESC STANDARDS.
5. N.J.S.A. 4:24-39 ST SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE TEMPORARY VEGETATIVE COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL WITHIN 14 DAYS, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE AND ANCHORED IN PLACE ACCORDING TO THE SESC STANDARD FOR STABILIZATION WITH MULCH ONLY.
7. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHORED IN PLACE ACCORDING TO THE SESC STANDARDS.
8. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS, IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
9. ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES.
10. THE SESC STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD USING CLEAN, CRUSHED, ANGULAR STONE - ASTM C-33, SIZE NO. 2 OR 3 - AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.
11. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. AT THE TIME OF THE FINAL INSPECTION, YOU ARE REQUIRED TO PROVIDE CONFIRMATION THAT THE PROPER TYPE AND AMOUNT OF SEED, LIME AND FERTILIZER HAVE BEEN USED FOR PERMANENT STABILIZATION WORK. STRAW MULCH PROPERLY ANCHORED IN PLACE IS REQUIRED ON ALL SEEDING IN ACCORDANCE TO THE SESC STANDARDS.
12. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
13. IN ACCORDANCE WITH THE SESC STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
14. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL. CONDUIT OUTLET PROTECTION INSTALLATION SHALL BE POSTPONED IN BASINS ACTING AS SEDIMENT BASINS DURING CONSTRUCTION.
15. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE SESC STANDARDS FOR DEWATERING.
16. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED. MULCH SHALL BE APPLIED AND ANCHORED IN PLACE. CONDUIT OUTLET PROTECTION METHOD SHALL BE EMPLOYED AS REQUIRED BY SESC STANDARD FOR DUST CONTROL.
17. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE SESC STANDARD. STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF AN AMENDED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
18. ALL SOIL STOCKPILES ARE TO BE SURROUNDED WITH A SEDIMENT BARRIER AND STABILIZED IN ACCORDANCE WITH THE SESC STANDARDS. STOCKPILES SHOULD BE SITUATED SO AS TO NOT OBSTRUCT OR DAMAGE ADJACENT AREAS.
19. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM-WATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
20. REQUIREMENTS FOR SILT FENCE:
  1. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GRASS PRIOR TO LAND DISTURBANCE.
  2. FENCE SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1 1/4 INCHES.
  3. "SUPER" SILT FENCE - A METAL FENCE WITH 6 INCH OR SMALLER MESH OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC. POSTS MAY BE SPACED MORE THAN 8 FEET ON CENTER AND MAY BE CONSTRUCTED OF HEAVIER WOOD OR METAL AS NEEDED TO WITHSTAND HEAVIER SEDIMENT LOADING. THIS PRACTICE IS APPROPRIATE WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED. "SUPER" SILT FENCE IS NOT TO BE USED IN PLACE OF PROPERLY DESIGNED DIVERSIONS (PG.15-1) WHICH MAY BE NEEDED TO CONTROL SURFACE RUNOFF RATES AND VELOCITIES.
  4. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHER ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.
21. REQUIREMENTS FOR STONE BARRIER:
  1. THE STONE SHALL BE PILED TO A NATURAL ANGULAR OF REPOSE WITH A HEIGHT OF AT LEAST 2 FEET.
  2. THE STONE SHALL MEET ASTM C-33 SIZE NO.2(2.5 TO 1.5) OR 3 (2 TO 1 INCH).

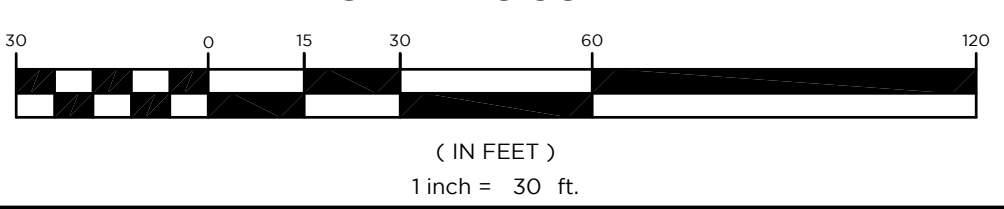
#### SEQUENCE OF CONSTRUCTION:

	TIME
1. INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, AND INLET PROTECTION TO ADJACENT INLETS.	2 DAYS
2. CLEAR DEVELOPMENT AREA.	4 DAYS
3. CLEAR TREES TO BE REMOVED	2 WEEKS
4. CONSTRUCT SEDIMENT BASIN	2 WEEKS
5. CLEAR DEMOLISHED MATERIAL DEMOLITION TO LAST APPROXIMATELY 5 WEEKS	2 DAYS
6. INSTALL BUILDING FOUNDATION.	1 MONTH
7. INSTALL UNDERGROUND UTILITIES.	3 WEEKS
8. CONSTRUCT NEW BUILDING.	2 MONTHS
9. INSTALL CURBING AND DRAINAGE STRUCTURES.	1 MONTH
10. INSTALL INLET FILTERS.	1 DAY
11. INSTALL PAVEMENT.	2 WEEKS
12. INSTALL LANDSCAPING & LIGHTING FIXTURES.	3 WEEKS
13. REMOVE ALL SOIL EROSION CONTROL DEVICES.	1 DAY

#### NOTES:

- a. NOTIFY THE OCEAN COUNTY SOIL CONSERVATION DISTRICT IN WRITING AT LEAST 48 HOURS PRIOR TO LAND DISTURBANCE.
- b. ALL STORMWATER DRAINAGE SYSTEM STRUCTURES MUST BE INSTALLED PRIOR TO INSTALLING BUILDING FOUNDATIONS AND CONSTRUCTING NEW BUILDINGS. BASIN SLOPES MUST BE STABILIZED PRIOR TO DRAINAGE SYSTEM BECOMING OPERATIONAL. BASINS SHALL ACT AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION. PROVIDE CLEAR INSTRUCTION ON HOW THE SITE WILL BE CONVERTED TO THE FINAL STORMWATER MANAGEMENT SYSTEM DESIGN.
- c. CONDUCT SOIL COMPACTION TESTS IN LOCATIONS SHOWN ON SOIL COMPACTION MITIGATION PLAN. TESTING MUST BE WITNESSED BY OCSO INSPECTOR. IF TESTS PASS, SUBMIT TEST RESULTS TO OCEAN COUNTY SOIL CONSERVATION DISTRICT. IF TESTS FAIL, RESTORATION OF COMPACTED SOILS SHALL BE CONDUCTED THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH).
- d. TOPSOIL WITH A MINIMUM DEPTH OF 5" AND FINAL GRADING OF THE LOT.
- e. PERMANENT STABILIZATION OF ALL DISTURBED AREAS.
- f. CONDUIT OUTLET PROTECTION AND K5 SAND INSTALLATION AT THE END OF CONSTRUCTION TO AVOID CONTAMINATION OF THE SAND DURING ITS USE AS A SEDIMENT BASIN.
- g. MUST OBTAIN A FINAL REPORT OF COMPLIANCE FROM THE OCSO.
- h. TOTAL LIMIT OF DISTURBANCE = 3.95 ACRES (172,662 SF) (OVERALL)
- i. TOTAL LIMIT OF DISTURBANCE = 3.53 ACRES (153,719.29 SF) (WITHIN PROPERTY LINE)
- j. INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, AND INLET PROTECTION TO ADJACENT INLETS.

#### GRAPHIC SCALE



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**BERTIN ENGINEERING**

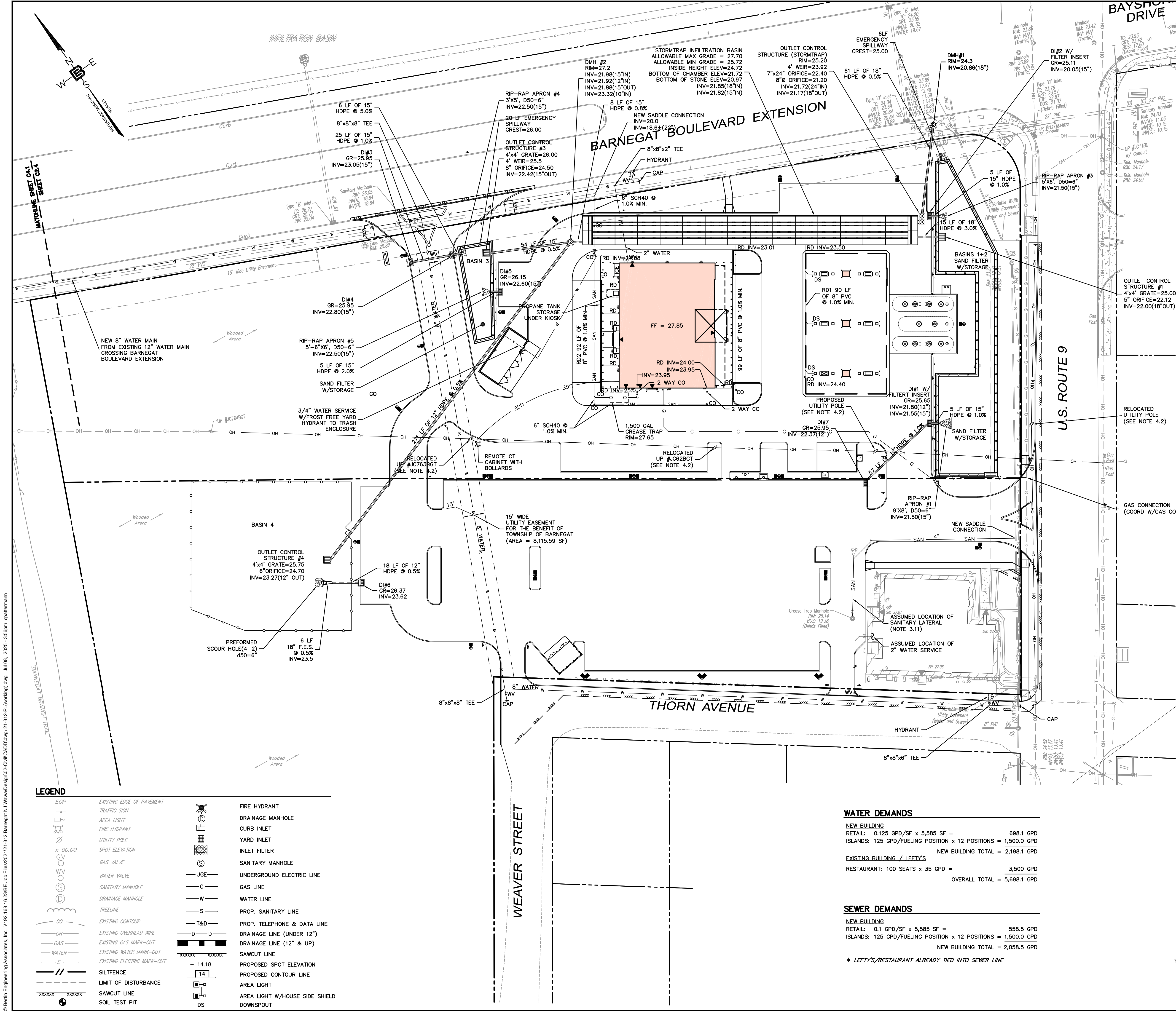
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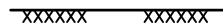

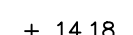




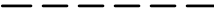



**CALISTO J. BERTIN, P.E.**  
PROFESSIONAL ENGINEER  
CT LIC. NO. 12950 NJ LIC. NO. 28845  
MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

**SHAN-PEI FANCHIANG, P.E.**  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

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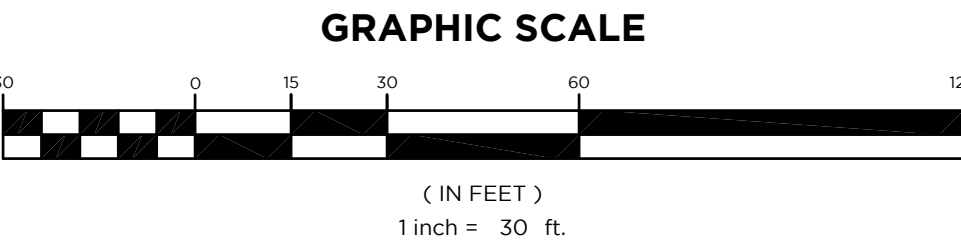
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	UTILITY POLE		INLET FILTER
	SPOT ELEVATION		SANITARY MANHOLE
	GAS VALVE		UNDERGROUND ELECTRIC LINE
	WATER VALVE		GAS LINE
	SANITARY MANHOLE		WATER LINE
	DRAINAGE MANHOLE		PROP. SANITARY LINE
	TREE LINE		PROP. TELEPHONE & DATA LINE
	EXISTING CONTOUR		PROP. TELEPHONE & DATA LINE
	EXISTING OVERHEAD WIRE		DRAINAGE LINE (UNDER 12")
	EXISTING GAS MARK-OUT		DRAINAGE LINE (12" & UP)
	EXISTING WATER MARK-OUT		SAWCUT LINE
	EXISTING ELECTRIC MARK-OUT		PROPOSED SPOT ELEVATION
	SILTFENCE		PROPOSED CONTOUR LINE
	LIMIT OF DISTURBANCE		AREA LIGHT
	SAWCUT LINE		AREA LIGHT W/HOUSE SIDE SHIELD
	SOIL TEST PIT		DOWNSPOUT

WATER DEMANDS	
NEW BUILDING	
RETAIL: 0.125 GPD/SF x 5,585 SF =	698.1 GPD
ISLANDS: 125 GPD/FUELING POSITION x 12 POSITIONS =	1,500.0 GPD
EXISTING BUILDING / LEFTY'S	
RESTAURANT: 100 SEATS x 35 GPD =	3,500 GPD
OVERALL TOTAL =	5,698.1 GPD

SEWER DEMANDS	
NEW BUILDING	
RETAIL: 0.1 GPD/SF x 5,585 SF =	558.5 GPD
ISLANDS: 125 GPD/FUELING POSITION x 12 POSITIONS =	1,500.0 GPD
NEW BUILDING TOTAL =	2,058.5 GPD
* LEFTY'S/RESTAURANT ALREADY TIED INTO SEWER LINE	

- ### UTILITY NOTES
- #### 1.0 GENERAL
- ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
  - METER LOCATIONS SHOWN HERE ARE SCHEMATIC. ACTUAL LOCATIONS TO BE DETERMINED BY UTILITY & ARCHITECT.
  - REFER TO PLUMBING PLANS FOR LOCATION OF DOWNSPOUTS, SANITARY LATERALS & UTILITY SERVICE ENTRANCES.
  - CONTRACTOR IS TO OBTAIN NECESSARY ROAD/UTILITY OPENING PERMITS.
- #### 2.0 WATER
- ALL WATER SYSTEM FACILITIES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWNSHIP STANDARDS FOR THE INSTALLATION OF WATER SYSTEM FACILITIES.
  - WATER LATERALS TO BE SIZED BY MECHANICAL ENGINEER.
  - THE WATER METER SHALL BE INSTALLED INSIDE THE BUILDING AGAINST AN OUTSIDE WALL WITH BALL VALVES ON EITHER SIDE OF THE METER.
  - IRRIGATION SYSTEM TO BE DESIGNED BY THE LANDSCAPE CONTRACTOR AND WILL REQUIRE METERS AND RPZ VALVES. WATER SERVICE FOR THE IRRIGATION SYSTEM WILL BE MADE AFTER THE CUSTOMER METER AND WILL CONFORM TO RAMSEY WATER STANDARDS, INCLUDING THE INSTALLATION OF A REDUCED BACKFLOW PREVENTER AND RAIN SENSORS.
  - LANDSCAPE AREAS TO BE IRRIGATED.
- #### 3.0 SANITARY SEWER
- COORDINATE SEWER CONNECTIONS WITH PLUMBING PLANS.
  - THE TOWNSHIP OF BARNEGAT SHALL BE NOTIFIED AT THE COMMENCEMENT OF WORK AND 24 HOURS PRIOR TO FINAL CONNECTION TO THE COLLECTION SYSTEM AND BACKFILL.
  - INFILTRATION SHALL NOT EXCEED FIFTY (50) GALLONS PER INCH OF NOMINAL DIAMETER PER TWENTY FOUR (24) HOURS PER MILE OF PIPE.
  - THE APPLICANT/OWNER SHALL BE RESPONSIBLE FOR THE PROPOSED SEWER UP TO THE POINT OF CONNECTION TO THE TOWNSHIP OF BARNEGAT SYSTEM.
  - MANHOLE SECTIONS TO CONFORM TO ASTM C-478.
  - CONNECTION OF STORM WATER SOURCES TO THE SANITARY SEWER OR COMBINED SEWER ARE PROHIBITED.
  - PROVIDE SANITARY CLEANOUTS AT 75' O.C. MAX. SPACING.
  - ASTM DESIGNATION D 3034 WHEN REFERRING TO SDR-35 PVC PIPE.
  - ALL SANITARY SEWER WORK WILL CONFORM TO THE TOWNSHIP STANDARDS FOR THE INSTALLATION OF SANITARY SEWERS.
  - GREASE TRAP, MONITORING MANHOLE, AND ALL ASSOCIATED FACILITIES WILL CONFORM TO TOWNSHIP OF BARNEGAT REQUIREMENTS.
  - LOCATE & INSPECT EXISTING SANITARY LATERAL. CLEAN OR REPLACE, AS REQUIRED. REROUTE SANITARY SEWER MAIN, REMOVE LIFT STATION AND CAP OUTLET PIPE.
- #### 4.0 ELECTRIC/COMMUNICATIONS
- COORDINATE CONDUIT SIZES WITH BUILDING DRAWINGS.
  - COORDINATE PROPOSED & RELOCATED UTILITY POLE LOCATIONS WITH UTILITY COMPANY.
- #### 5.0 NATURAL GAS
- NATURAL GAS PIPES TO BE SIZED BY UTILITY COMPANY.
- #### 6.0 STORM
- OPERATOR TO ANNUALLY CLEAN INLETS AND PROPERLY DISPOSE OF ALL SEDIMENT.
  - COORDINATE BUILDING DOWNSPOUT CONNECTIONS WITH PLUMBING PLANS.
  - SEE STORMWATER MANAGEMENT PLAN FOR MAINTENANCE REQUIREMENTS.
  - CORRUGATED POLYETHYLENE PIPE SHALL CONFORM TO AASHTO M252 FOR 3"-10" AND AASHTO M294 FOR SIZES 12" AND LARGER.
  - UNLESS NOTED, ALL RCP SHALL BE CLASS III AND SHALL MEET ASTM C76.

- ### GENERAL NOTES
- GENERAL CONTRACTOR SHALL EMPLOY AN INDEPENDENT SOIL INSPECTOR FOR 100% CONTINUOUS INSPECTION OF THE BEDDING AND BACKFILL OPERATIONS. COMPACTION TESTS SHALL BE TAKEN AT THE BOTTOM OF TRENCH AND AT EACH LIFT OF BACKFILL.
  - GENERAL CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO RECORD AS-BUILT TOP OF PIPE ELEVATIONS TAKEN WHEN BEDDING APPLICATION IS 75% COMPLETE. THESE ELEVATIONS SHALL BE TAKEN AT POINTS OF CONNECTION, CHANGES IN DIRECTION AND A MINIMUM 20' INTERVALS ALONG THE LENGTH OF THE PIPE. THESE ELEVATIONS SHALL BE RECORDED AS AS-BUILT DIMENSIONS ON A SITE PLAN FOR REVIEW BY THE PROJECT CIVIL ENGINEER.
  - ALL SANITARY LINES ARE TO BE FLUSHED PRIOR TO TURNOVER OF THE FACILITY.
  - ALL PROPOSED INLETS TO INCLUDE AN INLET FILTER (FLO-GARD+PLUS).
  - ALL WORK FOR THE WATER SERVICE AND SANITARY SEWER LATERAL PERFORMED IN THE EXISTING UTILITY EASEMENT OR PUBLIC RIGHT-OF-WAY FOR CONNECTION TO THE WATER MAIN AND SANITARY SEWER, ARE UNDER THE JURISDICTION OF THE TOWNSHIP OF BARNEGAT BOARD OF PUBLIC WORKS. CREW ENGINEER'S INC. WILL INSPECT THIS WORK ON BEHALF OF THE BOARD AND WILL REQUIRE 72-HOUR ADVANCE NOTICE FROM THE APPLICANT OR THEIR CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ALL WORK FOR THE WATER SERVICE AND SEWER LATERAL ON THE PROPERTY IS UNDER THE JURISDICTION OF THE TOWNSHIP OF BARNEGAT CONSTRUCTION PLUMBING SUBCODE OFFICIAL, AND THE APPLICANT IS RESPONSIBLE FOR PROVIDING PROPER NOTIFICATION TO THE DEPARTMENT AND TO ENSURE THE REQUIRED PLUMBING PERMIT.
  - BEFORE THE START OF WORK, THE APPLICANT'S CONTRACTOR MUST SUBMIT A CERTIFICATE OF INSURANCE (COI) TO CREW ENGINEERING, COMPLYING WITH THE TOWNSHIP OF BARNEGAT STANDARDS. THE COI MUST BE REVIEWED AND APPROVED BY THE TOWNSHIP'S INSURANCE CONSULTANT BEFORE THE APPLICANT IS PERMITTED TO CONNECT TO THE WATER DISTRIBUTION SYSTEM AND SANITARY SEWER.
  - BEFORE THE START OF WORK, THE APPLICANT OR THEIR CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO OUR OFFICE FOR ALL RELEVANT ITEMS AND PRODUCTS THAT WILL BE USED ON THE PROJECT FOR THE WATER AND SANITARY SEWER CONNECTIONS.
  - CONTRACTOR TO COORDINATE WITH BARNEGAT WATER AND SEWER FOR 12" WATERMAIN EXTENSION.



**BERTIN ENGINEERING**

CIVIL • SURVEYING • TRAFFIC • STRUCTURAL • ENVIRONMENTAL • MECHANICAL • LANDSCAPE

CALISTO J. BERTIN, P.E.  
PROFESSIONAL ENGINEER

CT LIC. NO. 12950 NJ LIC. NO. 28845  
MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

SHAN-PEI FANCHIANG, P.E.  
PROFESSIONAL ENGINEER

NJ LIC. NO. 37073  
NY LIC. NO. 071209

J.A.S.	C.P.	C.P.	A.U.	J.R.	R.M.C.	V.L.	V.L.	V.L.
11	4-22-25	REVISE PER GRADING PLAN						
10	12-30-24	REVISE PER GRADING PLAN						
9	12-17-24	REVISE PER GRADING PLAN						
8	7-23-24	ADDED WATER LINE INFORMATION						
7	5-14-24	REVISE DRAINAGE BASIN AND CHAIN LINK FENCE						
6	2-28-24	ADD MANHOLE/RELOCATE WATER MAIN						
5	1-11-24	DESIGN NEW WATER MAIN ALONG BARNEGAT BOULEVARD EXTENSION						
4	9-29-23	REVISE STORM SEWER						
3	6-21-23	REVISE						
2	4-12-23	ADDED RESTAURANT WATER DEMAND & WATERLINE						
1	12-12-22	UPDATED SURVEY & REVISE SANITARY & DRAINAGE CONNECTIONS AROUND NEW BUILDING						
NO.	DATE	REVISION						

DRAWING TITLE

**UTILITY & STORMWATER MANAGEMENT PLAN**

PROJECT

**WaWa Food Market & Fueling Station**

BLOCK 146.02, LOTS 9.02, 10.01 & 11, BLOCK 147, LOT 1, BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1, 547 NORTH MAIN STREET  
TOWNSHIP OF BARNEGAT, OCEAN COUNTY, NJ

CLIENT

M&T AT 547 MAIN LLC  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

CERTIFICATE OF AUTHORIZATION  
24GA28068900

DRAWN BY: V.L. CHECKED BY: C.J.B.

SCALE: 1"=30' PROJECT NO: 21-312

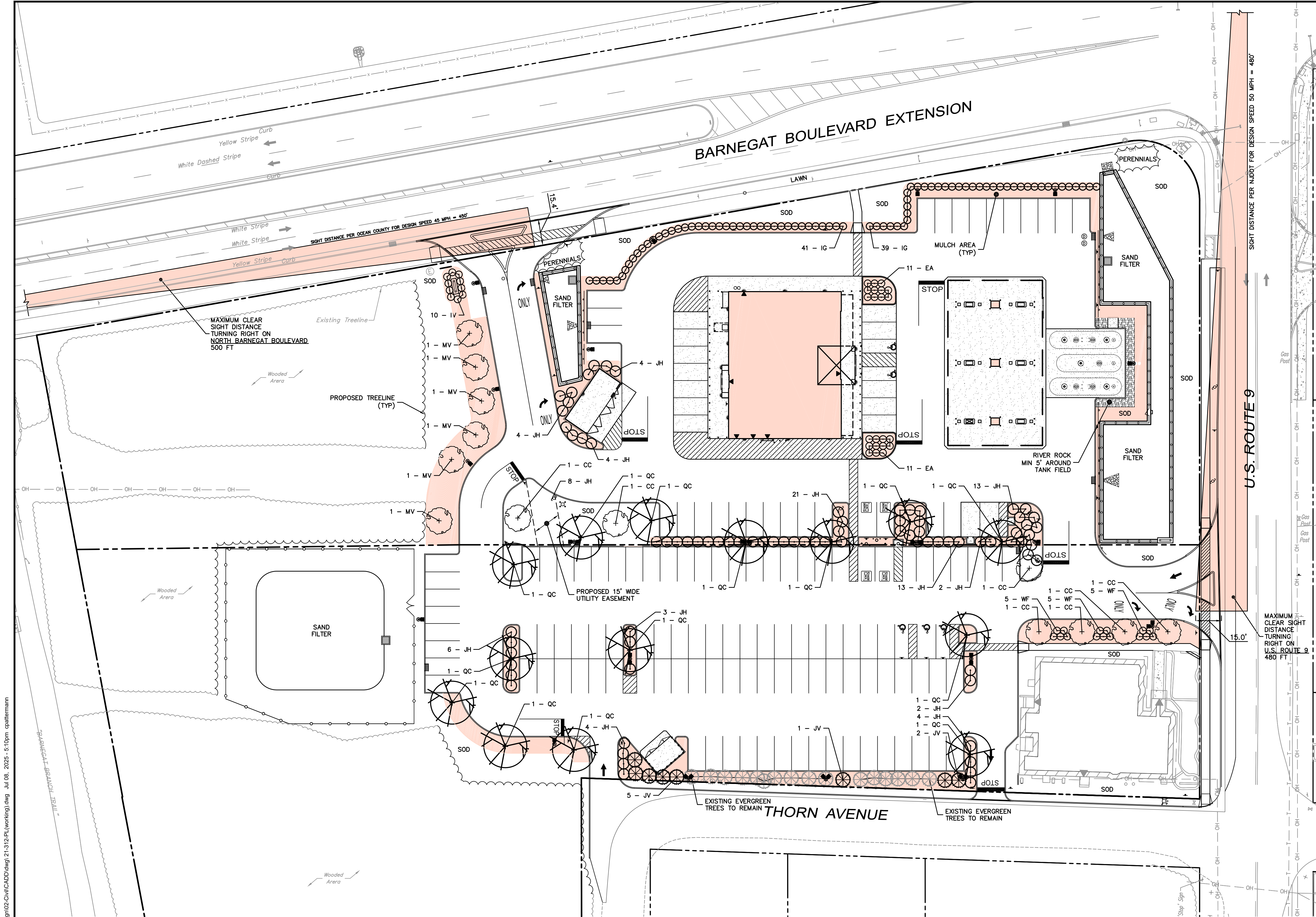
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DRAWING NO.

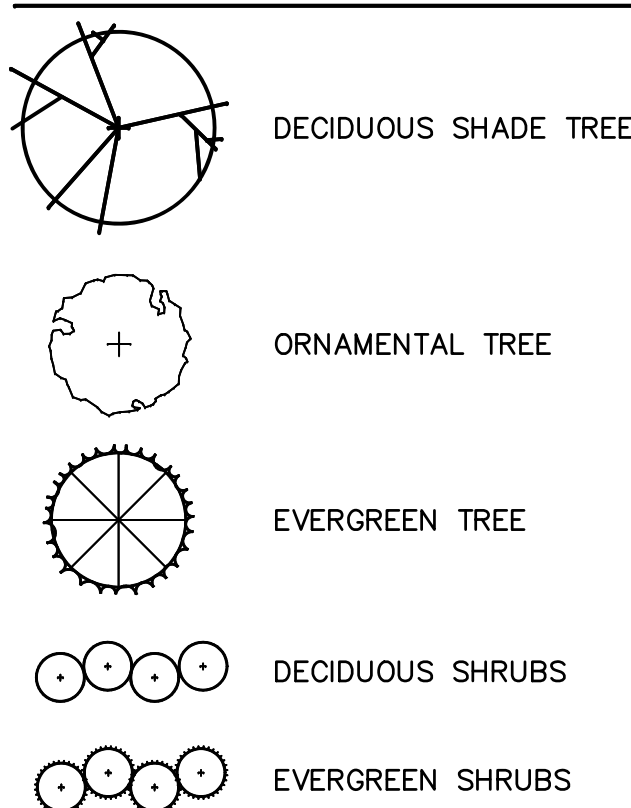
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LANDSCAPE KEY



PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	PLANTING SIZE		MATURE SIZE		SPACING
				HEIGHT	ROOT	HEIGHT	SPREAD	
DECIDUOUS SHADE TREES								
QC	14	QUERCUS COCCINEA	SCARLET OAK	8' - 10' 2 1/2" CAL. (MIN.)	B&B	50'-70'	40'-50'	AS SHOWN (40' O.C. MIN.)
DECIDUOUS ORNAMENTAL TREES								
CC	7	CERCIS CANADENSIS	EASTERN REDBUD	4' - 6" 1" CAL. (MIN.)	B&B	20'-30'	25'-35'	AS SHOWN
MV	6	MAGNOLIA VIRGINIANA	SWEETBAY	4' - 6" 1" CAL. (MIN.)	B&B	10'-35'	10'-35'	20' O.C.
EVERGREEN TREES								
JV	6	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6' - 8'	B&B	30'-65'	10'-25'	8' O.C.
EVERGREEN SHRUBS								
IG	80	ILEX GLABRA	INKBERRY	18" - 24"	2 GAL.	5'-8"	5'-8"	4' O.C.
JH	82	JUNIPERUS HORIZONTALIS "BAR HARBOR"	BAR HARBOR JUNIPER	3" - 6"	3 GAL.	8'-12"	6'-8"	6' O.C.
DECIDUOUS SHRUBS								
EA	22	EUONYMUS ALATUS "COMPACTUS"	DWARF BURNING BUSH	18" - 24"	2 GAL.	4'-6"	4'-6"	4' O.C.
WF	15	WEIGELA FLORIDA "BOKRASPIW"	SPILLED WINE WEIGELA	18" - 24"	2 GAL.	2'-3"	3'-4"	4' O.C.

NOTE: DWARF BURNING BUSH (EA) TO BE KEPT PRUNED TO A HEIGHT OF 36"-40"

IRRIGATION NOTES

IRRIGATION SYSTEM TO BE DESIGN ED BY RAIN BIRD

- ALL IRRIGATION SUPPLY, LATERAL WATER LINES AND SPRINKLER HEADS ARE TO BE LOCATED A MINIMUM OF 3' BEHIND CURB LINE.
- ALL ZONES ARE TO BE DESIGNED NOT TO EXCEED 20 GPM DEMAND.
- MINIMUM BURIAL DEPTH FOR ALL SUPPLY AND LATERALS ARE 18"
- ALL LANDSCAPE AREAS ADJACENT TO BUILDING AND PARKING AREAS AROUND BUILDINGS ARE TO BE IRRIGATED BY DRIP SYSTEMS.
- LAWN AREAS OUTSIDE OF PERIMETER SIDEWALKS ARE TO BE DESIGNED AND CONTROLLER PROGRAMMED TO IRRIGATE AT OFF-PEAK HOURS.
- SPRINKLER HEADS ARE TO BE THE FOLLOWING; RAIN BIRD 5000 SERIES, RAIN BIRD 1804 AND RAIN BIRD 1812.
- DRIP SYSTEMS ARE TO BE NETAFIN DRILINE, 18"x18" SPACING WITH 9GPH EMITTERS.
- IRRIGATION CONTROLLER IS TO BE RAIN BIRD, ESP-16LX, AUTOMATIC CONTROLLER, LOCATED IN THE MECHANICAL ROOM OF THE BUILDING.
- NO SUBSTITUTIONS OR DEVIATION FROM IRRIGATION PLAN WILL BE ALLOWED.
- IRRIGATION SYSTEMS ARE TO BE WARRANTED BY INSTALLING CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATE OF OCCUPANCY. IRRIGATION CONTRACTOR IS TO PROVIDE ALL MAINTENANCE, ADJUSTMENTS, PROGRAMMING AND WINTERIZATION DURING THE FIRST YEAR WARRANTY.

LANDSCAPE NOTES

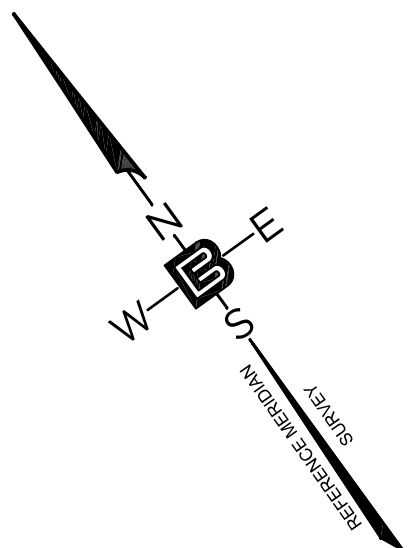
- ALL TOPSOIL SHALL BE A MINIMUM 5" ON ALL SOD AREAS AND 6" IN TREE, SHRUB AND GROUND COVER BEDS, INCLUDING PARKING LOT ISLAND BEDS. IT SHALL BE APPROVED BY A STORE CONSTRUCTION REPRESENTATIVE, PRIOR TO INSTALLATION.
- PLANTING BEHIND PERPENDICULAR PARKING IS TO BE LOCATED A MINIMUM 5' BEHIND THE CURB LINE.
- ALL LANDSCAPE AND GRASS AREAS ARE TO BE HAND RAKED AND LEFT CLEAR OF ALL STONES, ROCK, CONSTRUCTION DEBRIS AND ANY UNSUITABLE MATERIALS.
- ALL LANDSCAPE AND GRASS AREAS ARE TO BE IRRIGATED BY AUTOMATIC SPRINKLER SYSTEM. (SEE IRRIGATION SPECIFICATION).
- LANDSCAPE CONTRACTOR WILL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND PLANTING INSTALLATION.
- ALL AREAS TO BE LANDSCAPED OR COVERED WITH STONE MUST BE TREATED WITH A PRE-EMERGENCE HERBICIDE (SURFLAN, DACTAL OR APPROVED EQUAL) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE REGULATIONS AND THE MANUFACTURER'S INSTRUCTIONS.
- ALL LANDSCAPE BEDS ARE TO BE DELINEATED WITH 5 1/2" ALUMINUM LANDSCAPE EDGING, STAKED AT 3' INTERVALS. ALUMINUM EDGING IS TO BE CLEANLINE 3/16" X 5 1/2" X 16' BY PERMALOC. (800-358-9660, /WWW.PERMALOC.COM) FOLLOW MANUFACTURER'S INSTALLATION DIRECTIONS INCLUDED AT THE END OF THIS SECTION.
- LANDSCAPE CONTRACTOR TO SUPPLY AND INSTALL A PERVIOUS WEED BARRIER (DEWITT, DUPONT OR APPROVED EQUAL) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITHIN ALL LANDSCAPES, INCLUDING STONE AND MULCH BEDS. ALL WEED BARRIER WILL BE OVERLAPPED A MINIMUM OF 6" AT ALL SEAMS. AT PLAN LOCATIONS, BARRIER SHOULD BE CUT IN A "X" PATTERN SO TO ACCOMMODATE ROOT BALL AND REPLACED AFTER PLANT HAS BEEN INSTALLED.
- WEED BARRIER SHALL NOT BE VISIBLE IN AREAS DESIGNATED FOR STONE MULCH. WHEN STONE IS CALLED FOR ADJACENT TO CURB OR SIDEWALKS, IT SHALL BE FEATHERED DOWN TO CURB LEVEL FROM A DISTANCE 24" FROM THE CURB.
- ALL PROPOSED LANDSCAPING TO BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY. THEY ARE TO HAVE NORMAL VIGOROUS ROOT SYSTEMS, FREE FROM DEFECTS AND INFECTIONS AND IN ACCORDANCE WITH ANSI Z60.1.
- ALL PROPOSED PLANTINGS SHOULD BE INSTALLED PER STANDARDS OF THE "AMERICAN ASSOCIATION OF NURSERYMEN" AND STATE NURSERY/LANDSCAPE ASSOCIATIONS WITH REGARD TO PLANTING, PIT SIZE, BACKFILL MIXTURE, STAKING AND GUYING.
- ALL PLANTING CONTAINERS AND BASKETS SHALL BE REMOVED DURING PLANTING. ALL PLANTS SHALL BE SET PLUMB AND POSITIONED SO THAT THE TOP OF THE ROOT COLLAR MATCHES, OR IS NO MORE THAN TWO (2") INCHES ABOVE, FINISHED GRADE. REPLACE AMENDED BACKFILL IN 6-INCH LAYERS AND COMPACT BACKFILL TO ELIMINATE VOIDS. CONTRACTOR SHALL PROVIDE A FOUR-INCH HIGH EARTHEN WATERING SAUCER ALONG THE PERIMETER OF EACH PLANTING PIT. CONTRACTOR SHALL WATER NEWLY PLANTED VEGETATION PRIOR TO MULCHING PLANTING PIT. ALL VOIDS SHALL BE FILLED AND SETTLING MITIGATED AS REQUIRED. ALUMINUM EDGING SHALL BE INSTALLED AROUND ALL PLANTING AREAS TO DELINEATE BETWEEN DIFFERENT LANDSCAPE MATERIALS.
- AFTER INITIAL WATERING AND PRIOR TO MULCHING, CONTRACTOR SHALL APPLY HERBICIDES AND PRE-EMERGENT HERBICIDES AS REQUIRED TO ELIMINATE ANY WEED SEEDS OR PLANTS PRESENT ON ROOT BALL.
- ALL PLANTING BEDS AND PITS EXCEPT FOR LANDSCAPE ISLANDS ADJACENT TO THE BUILDING AND DESIGNATED AREA AT THE FUEL VENT STACKS, SHALL BE MULCHED WITH DOUBLE GROUND HARDWOOD MULCH AT A MINIMUM DEPTH OF 3". LANDSCAPE ISLANDS ADJACENT TO DESIGNATED AREA AT FUEL STACKS SHALL BE MULCHED WITH 1"-3" "RIVER STONE" MULCH. FOR LANDSCAPES ADJACENT TO BUILDING, CONTACT PROJECT ENGINEER.
- PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETENESS. THE CONTRACTOR SHALL REPLACE PLANTS, DEAD, UNHEALTHY, DYING OR DAMAGED THROUGH LOSS OF BRANCHES AND/OR FOLIAGE. LAWNS THAT AREA NOT IN GOOD CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPAIRED UNTIL A GOOD LAWN RESULTS. IT IS UNDERSTOOD THAT THE OWNER SHALL ASSUME RESPONSIBILITY FOR WATERING ALL PLANT MATERIAL AND LAWN AREAS BEGINNING WITH THE DATE OF SUBSTANTIAL COMPLETENESS.

LANDSCAPE MAINTENANCE NOTES

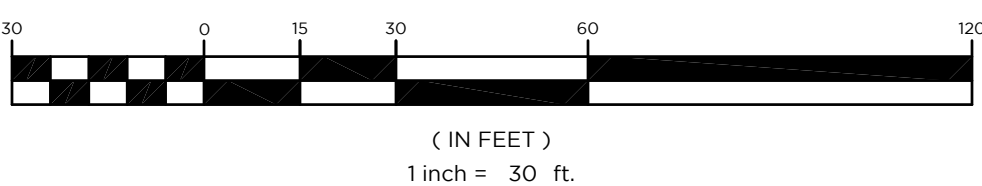
- PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL LANDSCAPING.
- TREES AND SHRUBS: MAINTAIN FOR THE FOLLOWING MAINTENANCE PERIOD BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, TIGHTENING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. RESTORE OR REPLACE DAMAGED TREE WRAPPINGS.
- GROUND COVER AND PLANTS: MAINTAIN FOR THE FOLLOWING MAINTENANCE PERIOD BY WATERING, WEEDING, FERTILIZING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
- THOSE PERFORMING SUCH WORK BE PROFESSIONALS CERTIFIED IN SUCH WORK. (ISA CERTIFIED, CERTIFIED TREE EXPERT CERTIFICATION AND/OR SHOW PROOF OF NOT LESS THAN 5 YEARS EXPERIENCE IN SUCH HORTICULTURAL WORK HAS BEEN OBTAINED).
- MAINTENANCE PERIOD: 24 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE BOROUGH'S LANDSCAPE ARCHITECT AND/OR BOROUGH OFFICIAL HAVING JURISDICTION.
- NORMAL MAINTENANCE AND CARE OF ALL PLANT MATERIAL (WATERING, ETC.) SHALL TAKE PLACE PRIOR TO THE DETERMINATION OF SUBSTANTIAL COMPLETION AS WELL IN ORDER TO PLANTED MATERIAL HEALTHY.

SIGHT TRIANGLE CHART

POSTED SPEED LIMIT = 45 M.P.H.  
DESIGN SPEED LIMIT = 50 M.P.H.



GRAPHIC SCALE



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CT LIC. NO. 12950 NJ LIC. NO. 28845  
MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

SHAN-PEI FANCHIANG, P.E.  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

	J.A.S.	J.A.S.	A.D.	M.K.	V.L.	V.L.	V.L.																
8	6-11-25	ADD LANDSCAPE ISLANDS AT FRONT OF MAIN BUILDING	7	4-22-25	REVISE LANDSCAPING PER NEW SITE LAYOUT	6	5-14-24	REVISE DRAINAGE BASIN AND CHAIN LINK FENCE	5	1-31-24	REVISE LANDSCAPING NOTES, ADD PERENNIALS	4	9-28-23	REVISE SITE TRIANGLE & ADD TABLE	3	6-21-23	REVISED PER NEW SURVEY & ADD MULCH	2	4-12-22	UPDATED PER NEW SURVEY & ADD MULCH	1	12-12-21	NO. DATE

DRAWING TITLE

**LANDSCAPE & SIGHT TRIANGLE PLAN**

PROJECT

**WaWa Food Market & Fueling Station**

BLOCK 146.02, LOTS 5.02, 10.01 & 11, BLOCK 147, LOT 1, BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1, 547 NORTH MAIN STREET  
TOWNSHIP OF BARNEGAT, OCEAN COUNTY, NJ

CLIENT

**M&T AT 547 MAIN LLC**  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

CERTIFICATE OF AUTHORIZATION  
24GA28068900 / 21MA000002800

DRAWN BY: V.L. CHECKED BY: C.J.B.

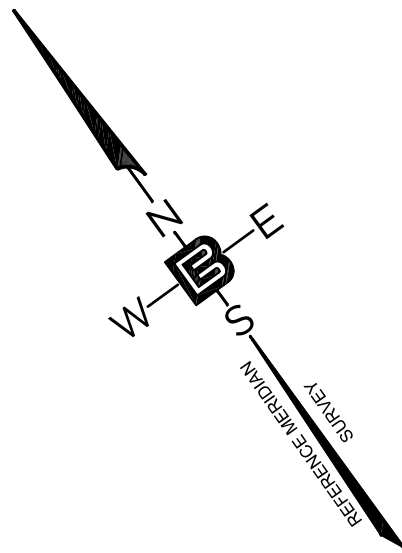
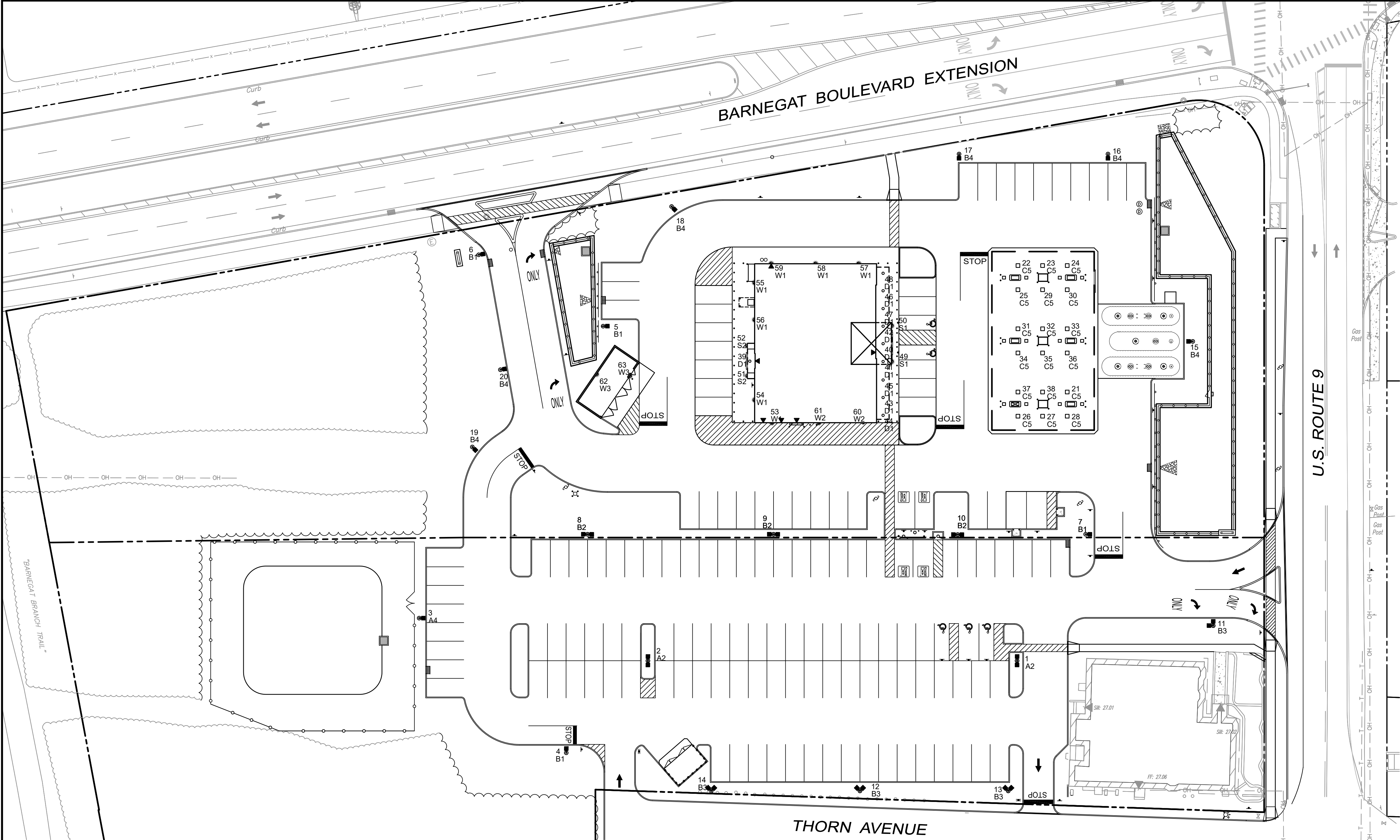
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DATE: 11-8-22 REVISION NO: 8

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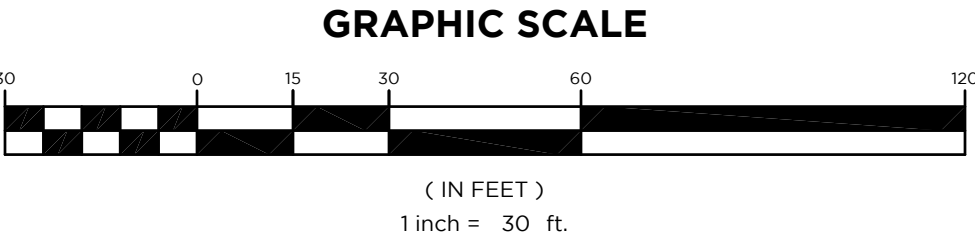


**RED leonard ASSOCIATES**  
1340 KEMPER MEADOW DRIVE  
FOREST PARK, OH 45240  
Ph: 513-574-9500

LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1	A2	20.5
2	A2	20.5
3	A4	20.5
4	B1	20.5
5	B1	20.5
6	B1	20.5
7	B1	20.5
8	B2	20.5
9	B2	20.5
10	B2	20.5
11	B3	20.5
12	B3	20.5
13	B3	20.5
14	B3	20.5
15	B4	20.5
16	B4	20.5
17	B4	20.5
18	B4	20.5
19	B4	20.5
20	B4	20.5
21	C5	17.11
22	C5	21.53
23	C5	19.32
24	C5	17.11
25	C5	21.53
26	C5	21.53
27	C5	19.32
28	C5	17.11
29	C5	19.32
30	C5	17.11
31	C5	21.53
32	C5	19.32
33	C5	17.11
34	C5	21.53
35	C5	19.32
36	C5	17.11
37	C5	21.53
38	C5	19.32
39	D1	9
40	D1	9
41	D1	9
42	D1	9
43	D1	9
44	D1	9
45	D1	9
46	D1	9
47	D1	9
48	D1	9
49	S1	9
50	S1	9
51	S2	8.5
52	S2	8.5
53	W1	15
54	W1	15
55	W1	15
56	W1	15
57	W1	15
58	W1	15
59	W1	15
60	W2	15
61	W2	15
62	W3	8
63	W3	8

- LIGHTING NOTES**
1. LIGHTING DESIGN PREPARED BY RED LEONARD ASSOCIATES, INC., 1340 KEMPER MEADOW DRIVE, FOREST PARK, OH 45240.
  2. ALL AREA LIGHTS ON 20 FOOT POLES MOUNTED ON 6" CONCRETE BASES
  3. ALL CONCRETE BASES TO BE LOCATED 5 FEET BEHIND CURB FACE
  4. FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES

LUMINAIRE SCHEDULE											
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DIMMING FACTOR	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	2	A2	Back-Back	17468	1.030	0.730	B3-U0-G4	90.42	361.68	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T3M-MVOLT-FAO-XX (SW. POS. 5)
	1	A4	SINGLE	15141	1.030	0.730	B2-U0-G3	90.42	90.42	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T3M-MVOLT-FAO-HS-XX (SW. POS. 5)
	4	B1	SINGLE	17728	1.030	0.730	B3-U0-G5	90.42	361.68	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-XX (SW. POS. 5)
	3	B2	Back-Back	17728	1.030	0.730	B3-U0-G5	90.42	542.52	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-XX (SW. POS. 5)
	4	B3	2 @ 90 degrees	17728	1.030	0.730	B3-U0-G5	90.42	723.36	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-XX (SW. POS. 5)
	6	B4	SINGLE	15251	1.030	0.730	B2-U0-G3	90.42	542.52	Lithonia Lighting	DSX0LED-P6-50K-70CRI-T4M-MVOLT-FAO-HS-XX (SW. POS. 5)
	18	C5	Single	15758	1.030	1.000	B3-U0-G1	89.4982	1610.968	Lithonia Lighting	RCNYLED-AL02-50K-80CRI-SYMC-MVOLT-BZS-XX (SW. POS. 5)
	10	D1	Single	1939	1.000	1.000	B2-U0-G0	19.7	197	Gotham Architectural Lighting	EV06 35/20 AR LSS WD MVOLT GZ10
	2	S1	SINGLE	2659	1.000	1.000	B0-U5-G2	20	40	FC/SSL Lighting	FCWS7170-XXX-35K-2500-CRI85-XX-D
	2	S2	SINGLE	2542	1.000	1.000	B0-U4-G2	20	40	FC/SSL Lighting	FCWS7168-XXX-35K-2500-CRI85-XX-D
	7	W1	Single	3604	1.010	1.000	B1-U0-G1	28.68	200.76	Lithonia Lighting	DSXW1 LED- P4-50K-70CRI-T4M-MVOLT-XXX-HS
	2	W2	Single	8745	1.010	1.000	B1-U0-G2	70.9	141.8	Lithonia Lighting	DSXW2 LED-P6-50K-70CRI-T4M-MVOLT-XXX-HS
	2	W3	Single	1994	1.010	1.000	B0-U0-G1	14.58	29.16	Lithonia Lighting	DSXW1 LED- P2-50K-70CRI-T3M-MVOLT-XXX-HS



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MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

**SHAN-PEI FANCHIANG, P.E.**  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

NO.	DATE	REVISION
1	12-12-22	UPDATED SURVEY
2	4-12-23	RE-ISSUE
3	6-21-23	RE-ISSUE
4	9-28-23	RE-ISSUE
5	5-14-24	REVISE DRAINAGE BASIN AND CHAIN LINK FENCE.
6	4-22-25	REVISE LIGHTING PER NEW SITE LAYOUT

DRAWING TITLE  
**LIGHTING PLAN**

PROJECT  
**WaWa Food Market & Fueling Station**  
BLOCK 146.02, LOTS 9.02, 10.01 & 11, BLOCK 147, LOT 1  
BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1  
547 NORTH MAIN STREET  
TOWNSHIP OF BARNEGAT, OCEAN COUNTY, NJ

CLIENT  
**M&T AT 547 MAIN LLC**  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

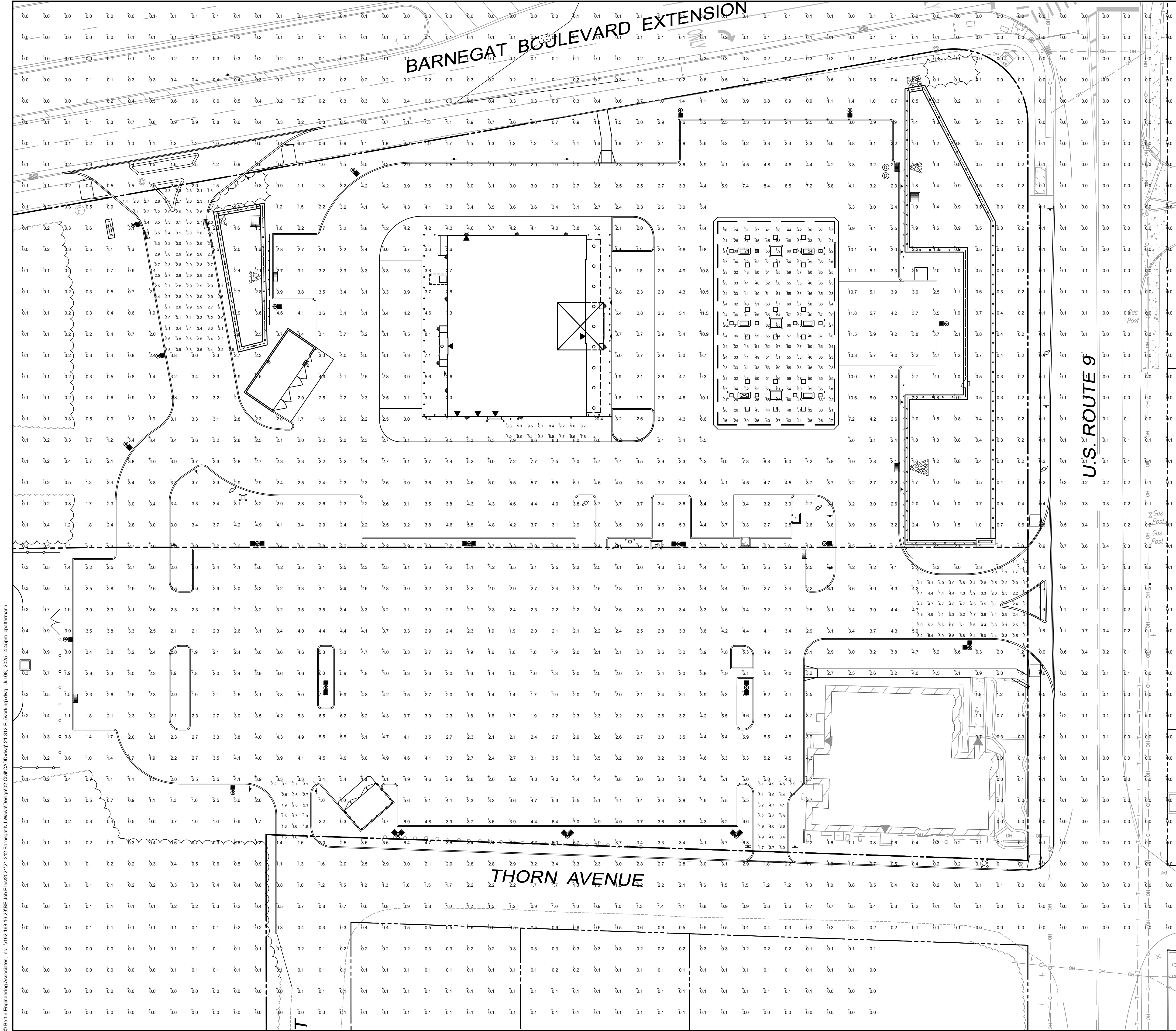
CERTIFICATE OF AUTHORIZATION  
24GA28068900 / 21MH00002800

DRAWN BY V.L.	CHECKED BY C.J.B.
SCALE 1"=30'	PROJECT NO. 21-312
DATE 11-8-22	REVISION NO. 6

DRAWING NO.  
**C2.6**

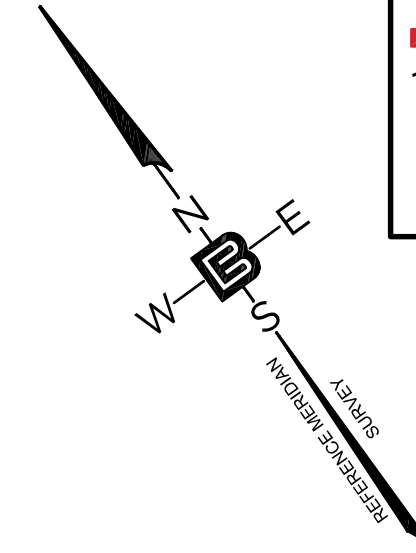


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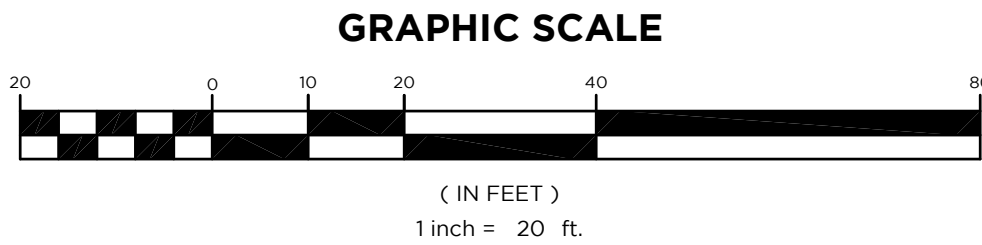


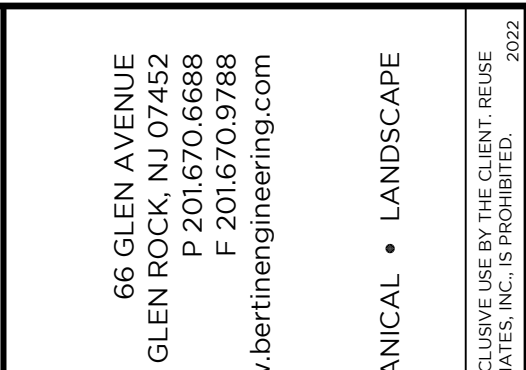
1340 KEMPER MEADOW DRIVE  
FOREST PARK, OH 45240  
Ph: 513-574-9500



CALCULATION SUMMARY				
LABEL	AVG	MAX	MIN	AVG/MIN
CANOPY	40.77	66	16	2.55
DELIVERY	8.71	9.5	7.8	1.12
ENTRANCES & EXITS	3.28	6.8	1.3	2.52
PAVED, OTHER	3.35	7.0	1.4	2.39
PAVED, WAWA	3.92	11.8	1.5	2.61
UNDEFINED	0.69	20.4	0.0	N.A.

- LIGHTING NOTES**
- LIGHTING DESIGN PREPARED BY RED LEONARD ASSOCIATES, INC., 1340 KEMPER MEADOW DRIVE, FOREST PARK, OH 45240.
  - ALL AREA LIGHTS ON 20 FOOT POLES MOUNTED ON 6" CONCRETE BASES
  - ALL CONCRETE BASES TO BE LOCATED 5 FEET BEHIND CURB FACE
  - FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES

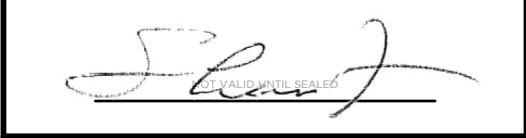




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PROFESSIONAL ENGINEER  
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MA LIC. NO. 40595 NY LIC. NO. 60022  
NH LIC. NO. 9368 RI LIC. NO. 6694

SHAN-PEI FANCHIANG, P.E.  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209



NO.	DATE	REVISION
6	4-22-25	REVISE PER NEW SITE LAYOUT
5	1-31-24	ADD GRAPHIC SCALE
4	9-28-23	RE-ISSUE
3	6-21-23	RE-ISSUE
2	4-12-23	REVISED PER SITE PLAN
1	12-12-22	REVISED PER SITE PLAN

**DRAWING TITLE**

LIGHTING  
INTENSITIES  
PLAN

**PROJECT**

**WaWa Food Market  
& Fueling Station**  
BLOCK 146.02, LOTS 9.02, 10.01 & 11, BLOCK 147, LOT 1  
BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1  
547 NORTH MAIN STREET  
TOWNSHIP OF BARNEGAT, OCEAN COUNTY, NJ

**CLIENT**

M&T AT 547 MAIN LLC  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

**CERTIFICATE OF AUTHORIZATION**  
24GA28068900 / 21MA000002800

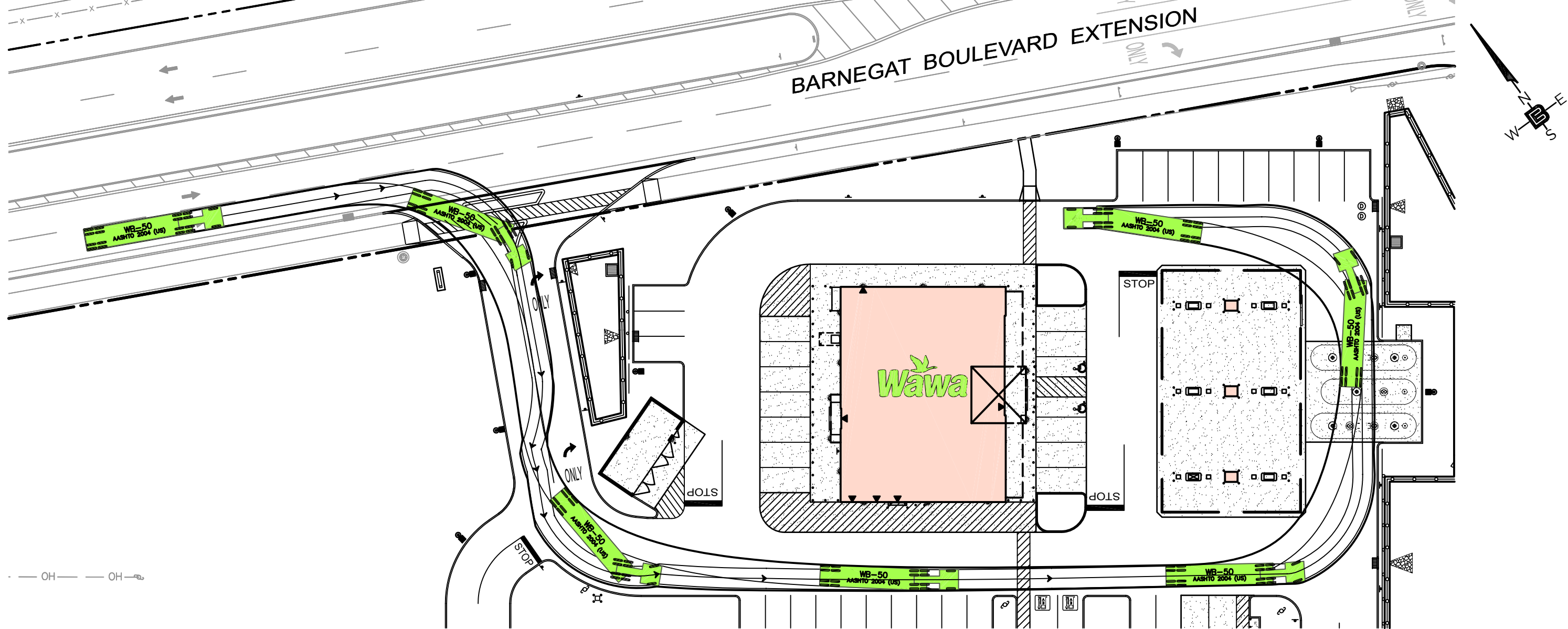
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SCALE 1"=20'	PROJECT NO. 21-312
DATE 11-8-22	REVISION NO. 6

DRAWING NO.

**C2.7**

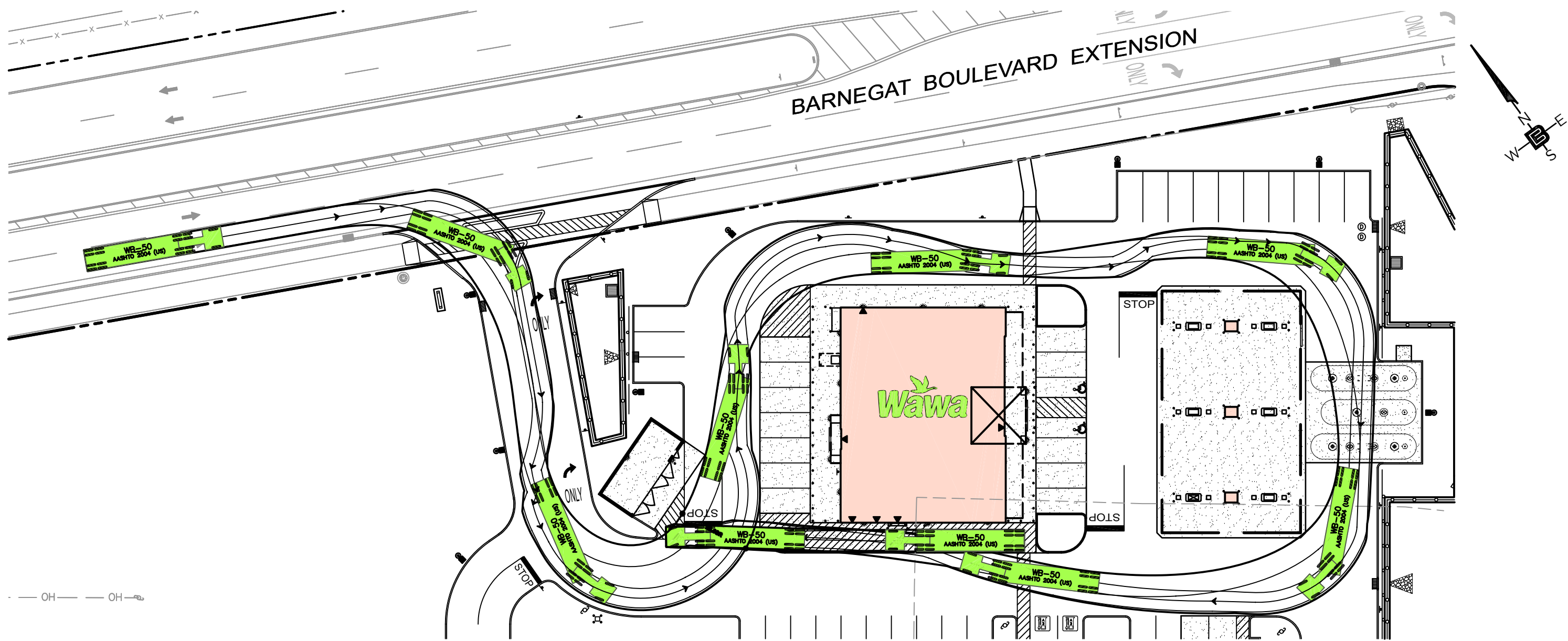


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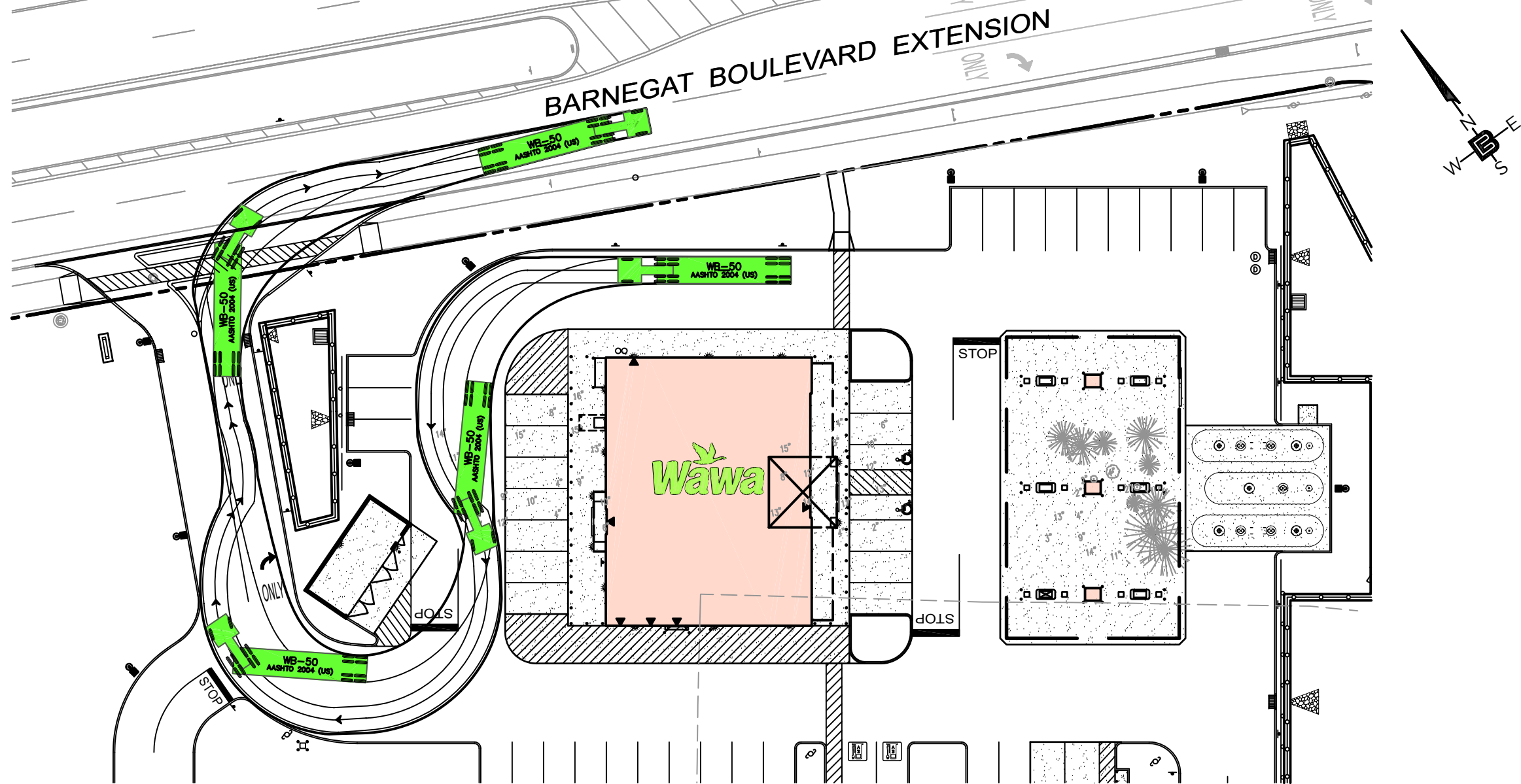
WB-50 FUEL DELIVERY TRUCK CIRCULATION PATH - ENTERING FROM BARNEGAT BOULEVARD EXTENSION (ALTERNATE)

SCALE: 1" = 40'



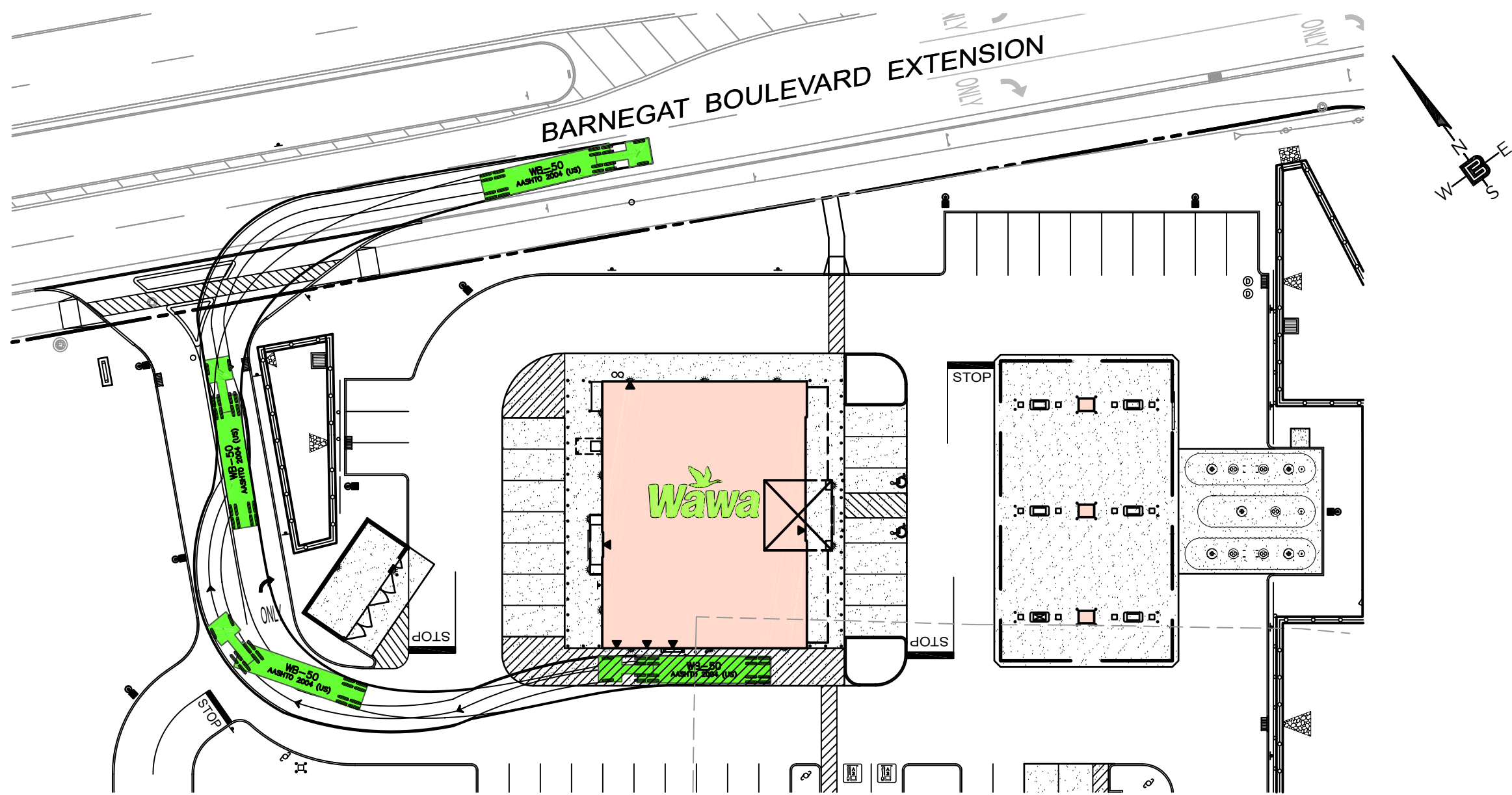
WB-50 STORE DELIVERY TRUCK CIRCULATION PATH - ENTERING FROM BARNEGAT BOULEVARD EXTENSION (ALTERNATE)

SCALE: 1" = 40'



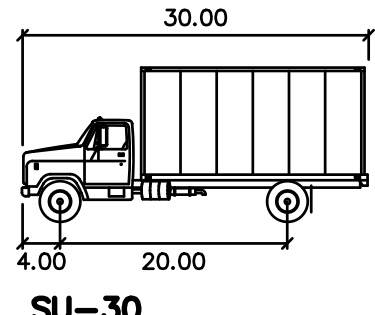
WB-50 FUEL DELIVERY TRUCK CIRCULATION PATH -EXITING ONTO BARNEGAT BOULEVARD EXTENSION (ALTERNATE)

SCALE: 1" = 40'



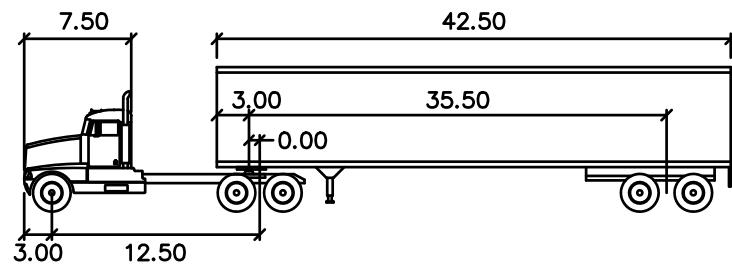
WB-50 STORE DELIVERY TRUCK CIRCULATION PATH - EXITING ONTO BARNEGAT BOULEVARD EXTENSION (ALTERNATE)

SCALE: 1" = 40'



SU-30

feet  
Width : 8.00  
Track : 8.00  
Lock to Lock Time : 6.0  
Steering Angle : 31.8



WB-50

feet  
Tractor Width : 8.00  
Tractor Track : 8.00  
Tractor Wheelbase : 12.50  
Trailer Width : 8.50  
Trailer Track : 8.50  
Lock to Lock Time : 6.0  
Steering Angle : 17.7  
Articulating Angle : 70.0

GRAPHIC SCALE



( IN FEET )  
1 inch = 40 ft.

66 GLEN AVENUE  
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SHAN-PEI FANCHIANG, P.E.  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

*Shan-Pei Fanchiang*

NO.	DATE	REVISION
1	4-22-23	REVISED PER SITE PLAN
2	8-21-23	REVISED TRACTOR-TRAILER CIRCULATION PATHS
3	7-11-23	REMOVE WB-50 CIRCULATION PATH RIGHT TURN FROM RTE 9 PER DOT
4	9-28-23	RE-ISSUE
5	12-11-23	REVISED TRUCK PATH
6	4-22-24	REMOVED FUEL DELIVERY TRUCK PATH FROM THORN AVE. REVISE & MOVED SU-30 DELIVERY TRUCK PATHS TO SHI C2.8b
7	10-11-24	REVISED WB-50 STORE DELIVERY TRUCK CIRCULATION PATH ENTERING LOADING ZONE

DRAWING TITLE  
**VEHICLE CIRCULATION PLAN - 1**

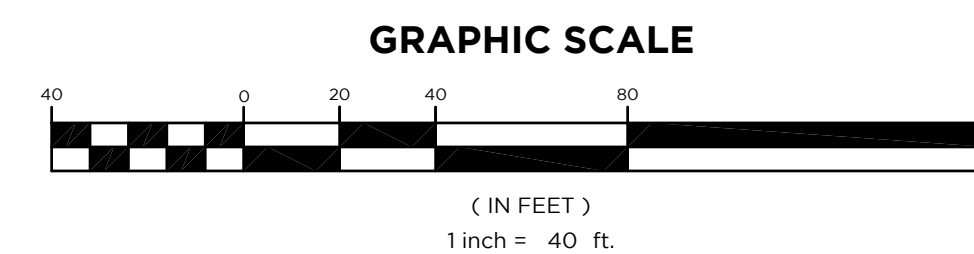
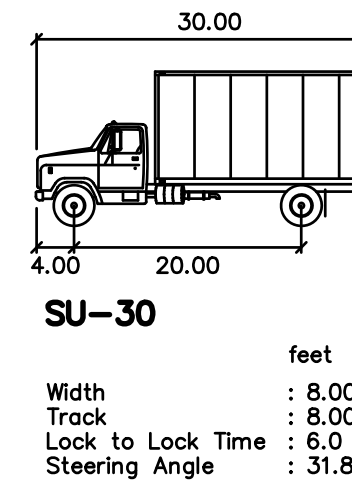
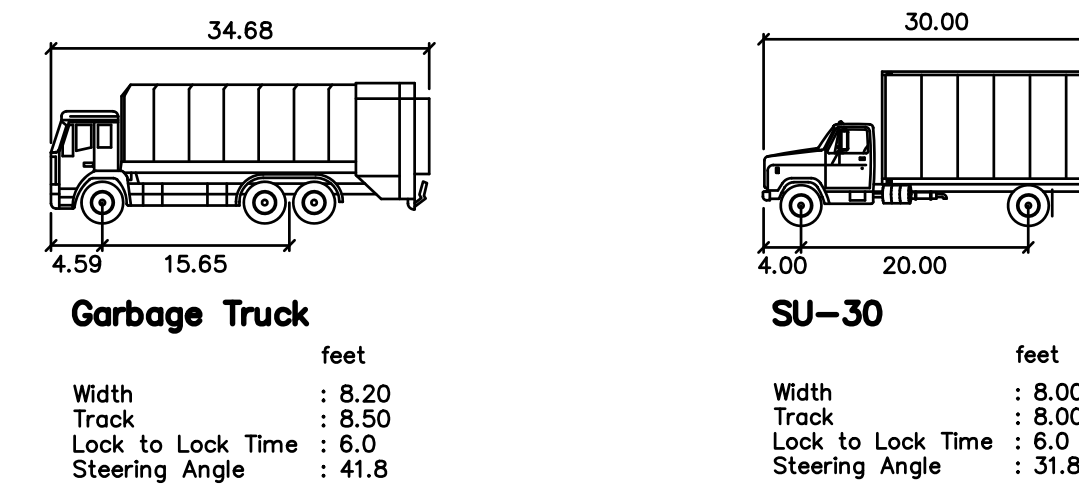
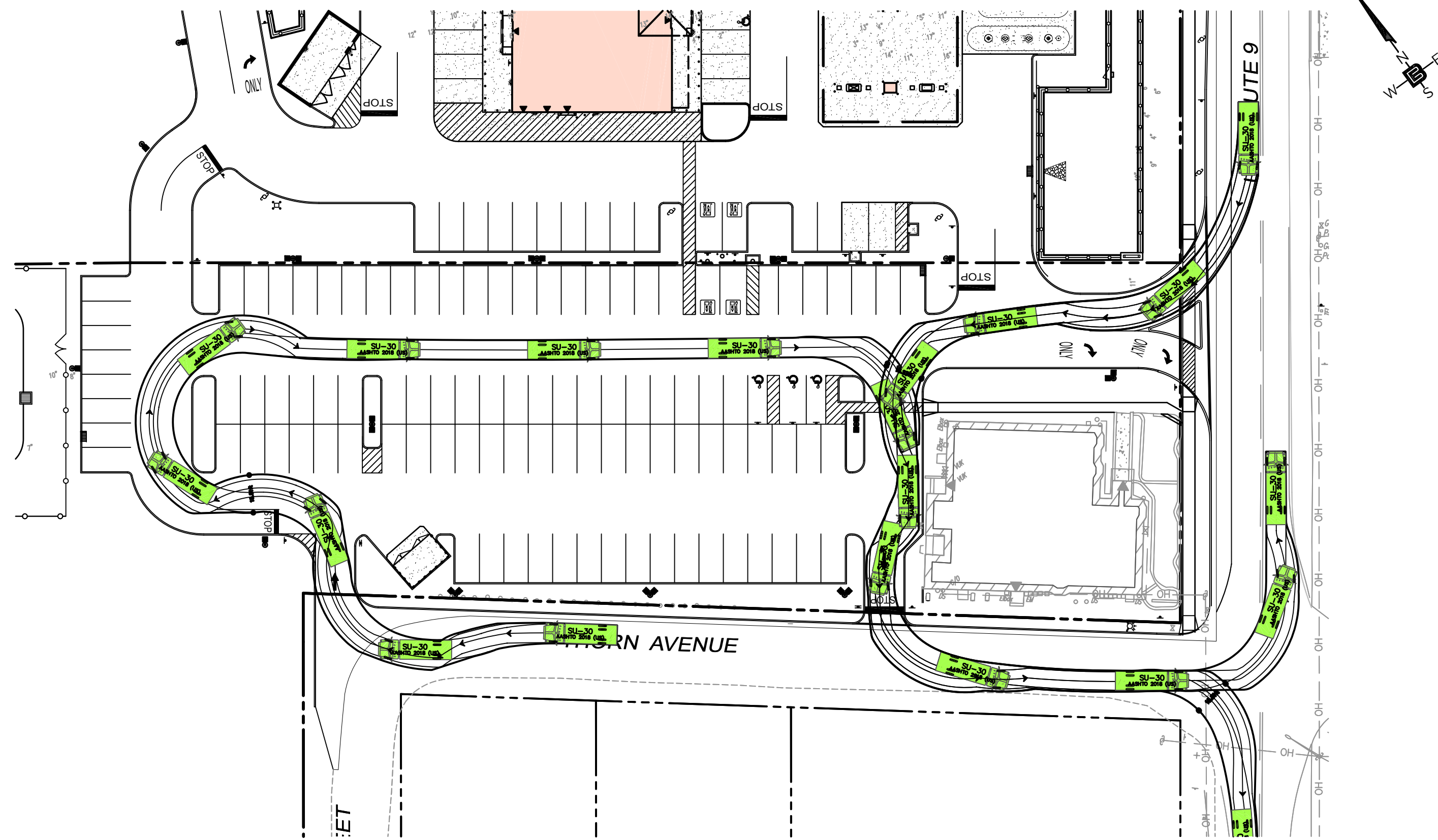
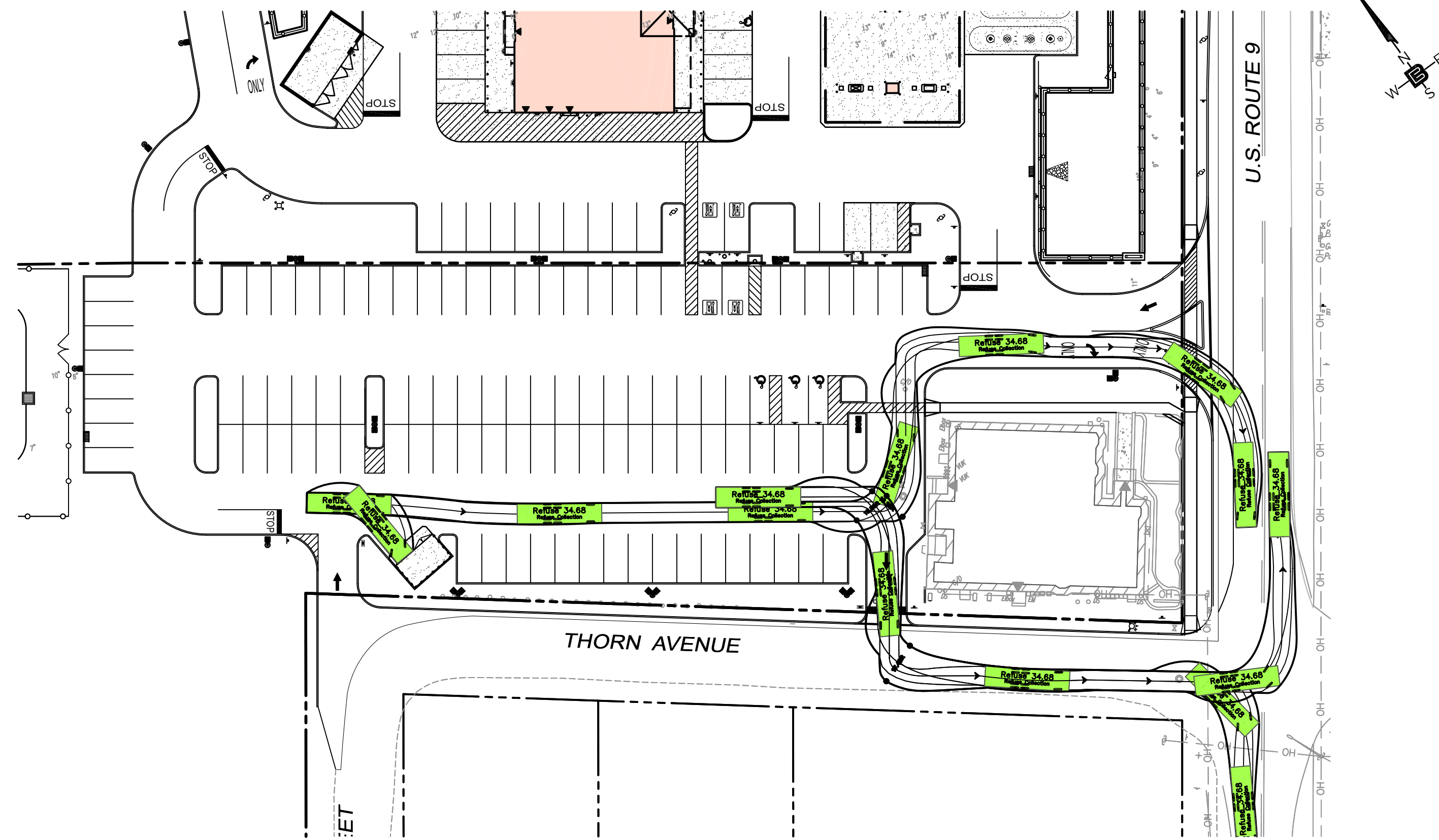
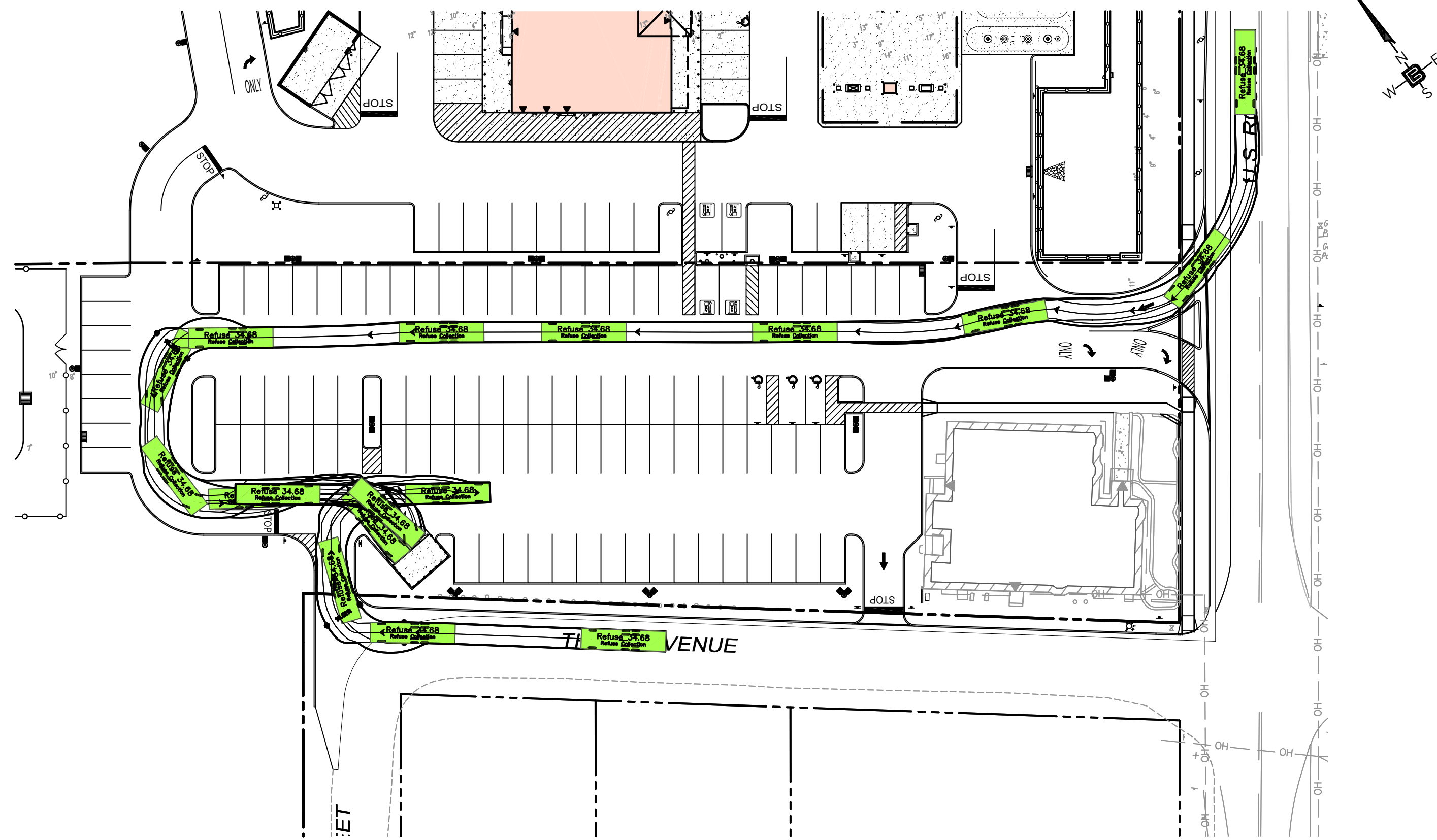
PROJECT  
**WaWa Food Market & Fueling Station**  
BLOCK 146.02, LOTS 9.02, 10.01 & 11, BLOCK 147, LOT 1  
BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1  
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CLIENT  
M&T AT 547 MAIN LLC  
C/O EDGEWOOD PROPERTIES, INC.  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

DRAWN BY J.A.S.	CHECKED BY C.J.B.
SCALE 1"=40'	PROJECT NO. 21-312
DATE 12-12-22	REVISION NO. 7

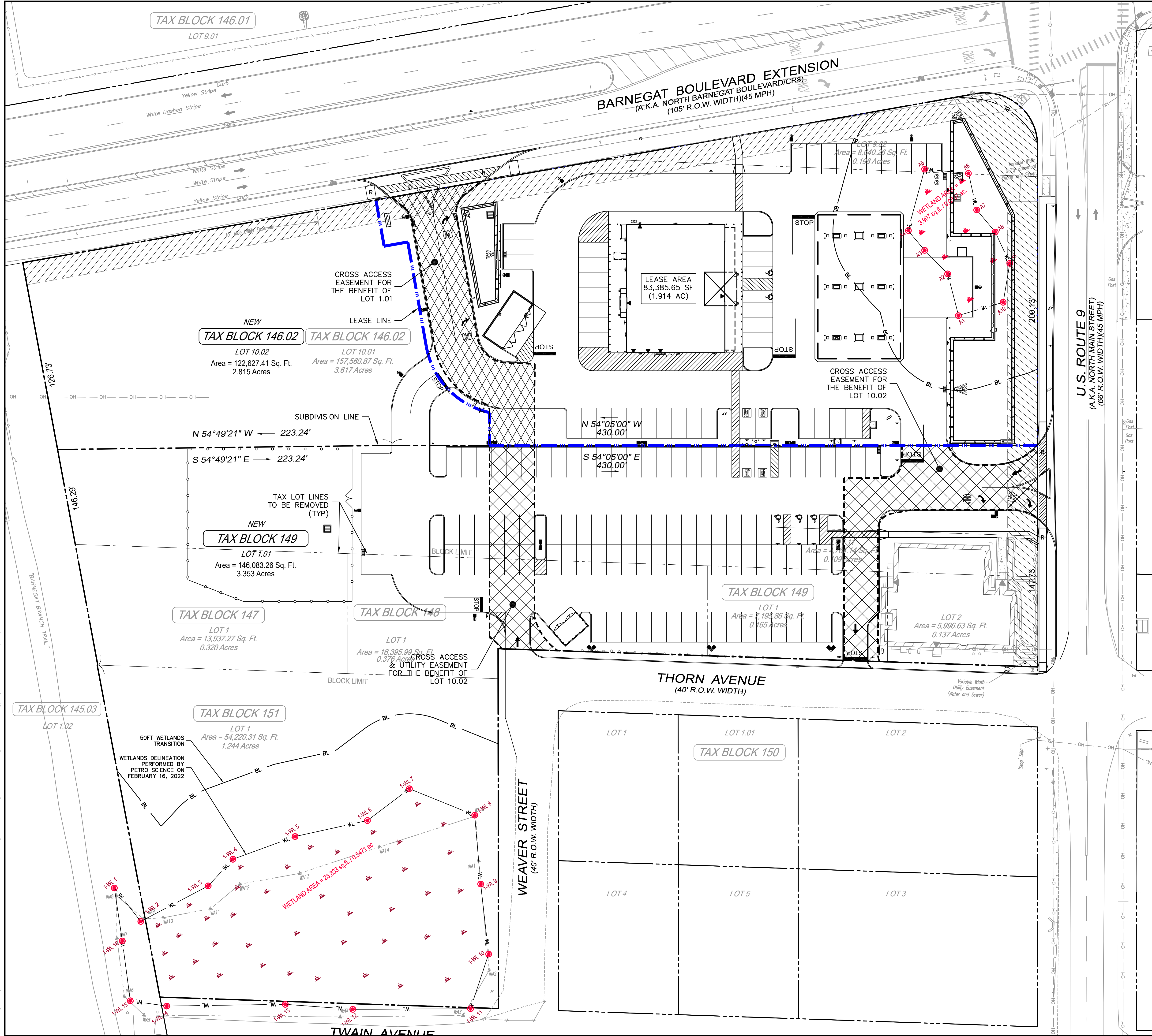
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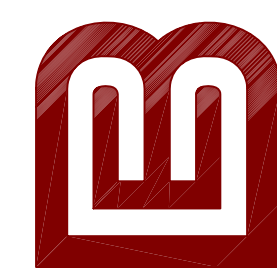






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**SHAN-PEI FANCHIANG, P.E.**  
PROFESSIONAL ENGINEER  
NJ LIC. NO. 37073  
NY LIC. NO. 071209

NO.	DATE	REVISION
1	12-12-22	REVISED PER SITE PLAN
2	4-12-23	REVISED PER SITE PLAN
3	6-21-23	RE-ISSUE
4	9-28-23	RE-ISSUE
5	5-14-24	REVISED CHAIN LINK FENCE
6	4-22-25	REVISED PER NEW SITE LAYOUT

DRAWING TITLE

**MINOR  
SUBDIVISION &  
LEASE PLAN**

PROJECT

**WaWa Food Market  
& Fueling Station**

BLOCK 146.02, LOTS 9.02, 10.01 & 11, BLOCK 147, LOT 1  
BLOCK 148, LOT 1, BLOCK 149, LOTS 1 & 2, BLOCK 151, LOT 1  
547 NORTH MAIN STREET  
TWP OF BARNEGAT, OCEAN COUNTY, NJ

CLIENT

**M&T AT 547 MAIN LLC  
C/O EDGEWOOD PROPERTIES, INC.**  
1260 STELTON ROAD  
PISCATAWAY, NJ 08854

CERTIFICATE OF AUTHORIZATION  
24GA28068900 / 21MH00002800

DRAWN BY	CHECKED BY
V.L.	C.J.B.

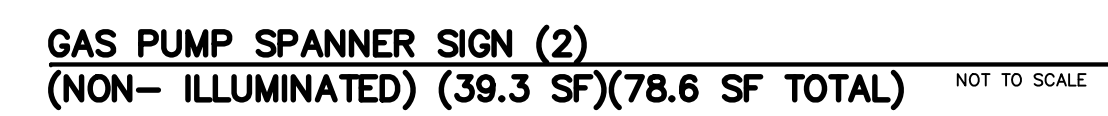
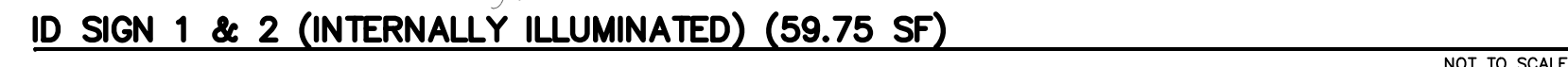
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1"=30'	21-312

DATE	REVISION NO.
11-8-22	6

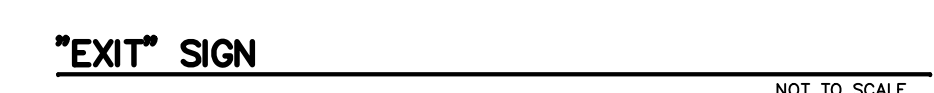
DRAWING NO.

**C2.9**





**"ENTER" SIGN**  
(NON-ILLUMINATED) (6.25 SF) NOT TO SCALE



SIGN AREA CHART		
<u>SIGN</u>	<u>QUANTITY</u>	<u>AREA (SF)</u>
ID #1	1	59.75
ID #2	1	59.75
BLDG #1	1	67.71
BLDG #2	1	36.85
SPANNER	2	39.3
CANOPY	1	9.02
TOTAL =		311.6

