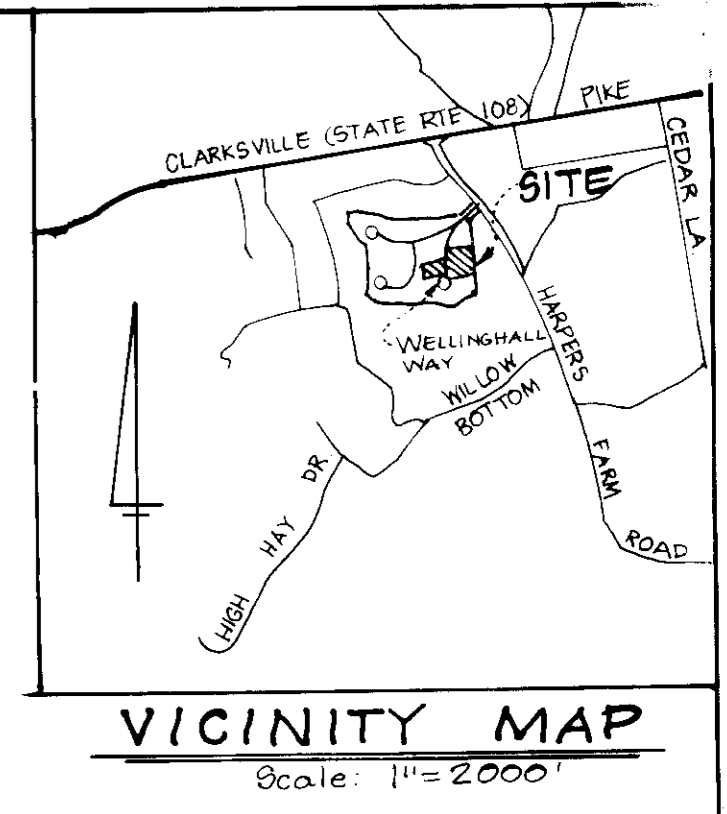
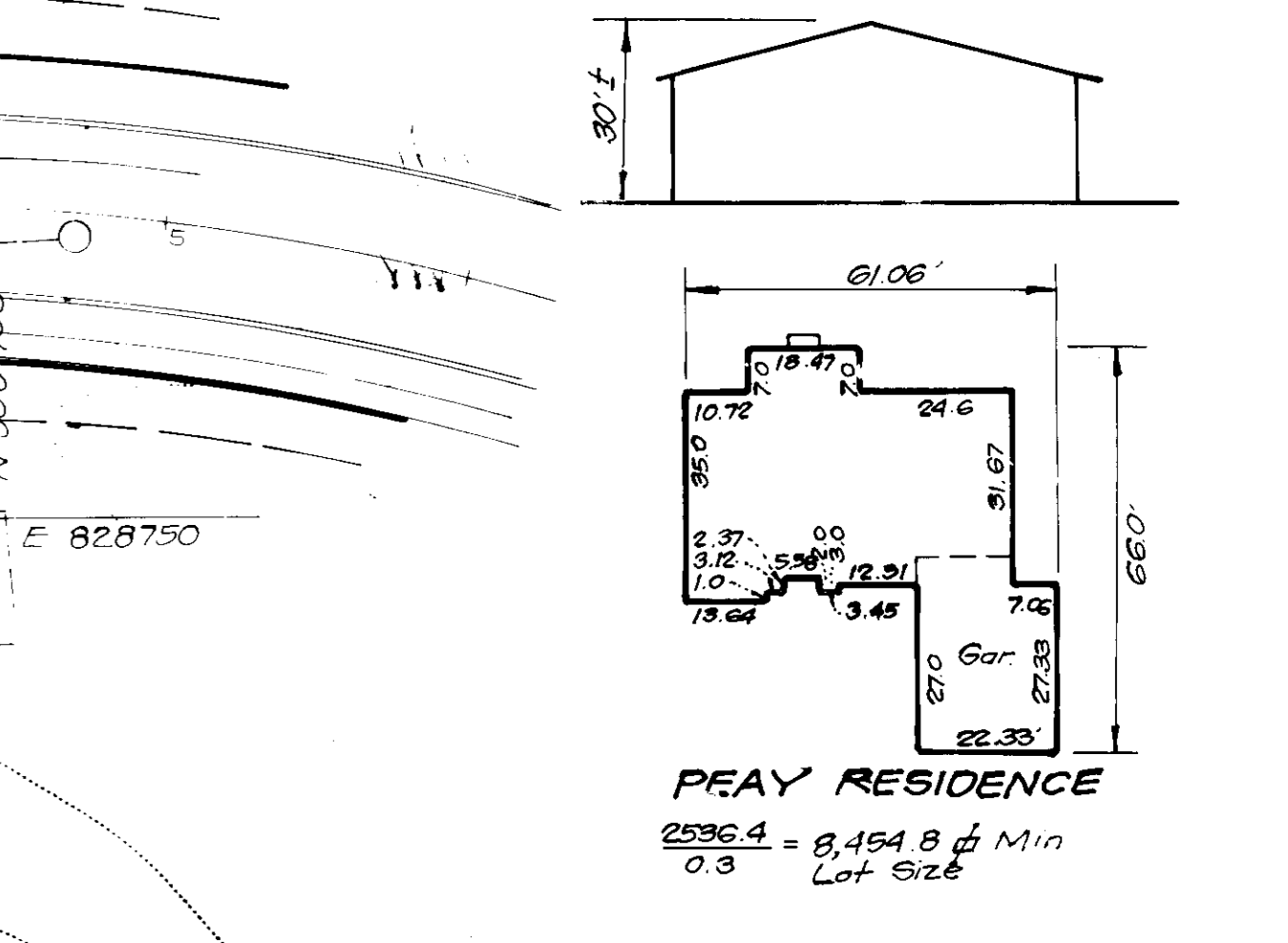
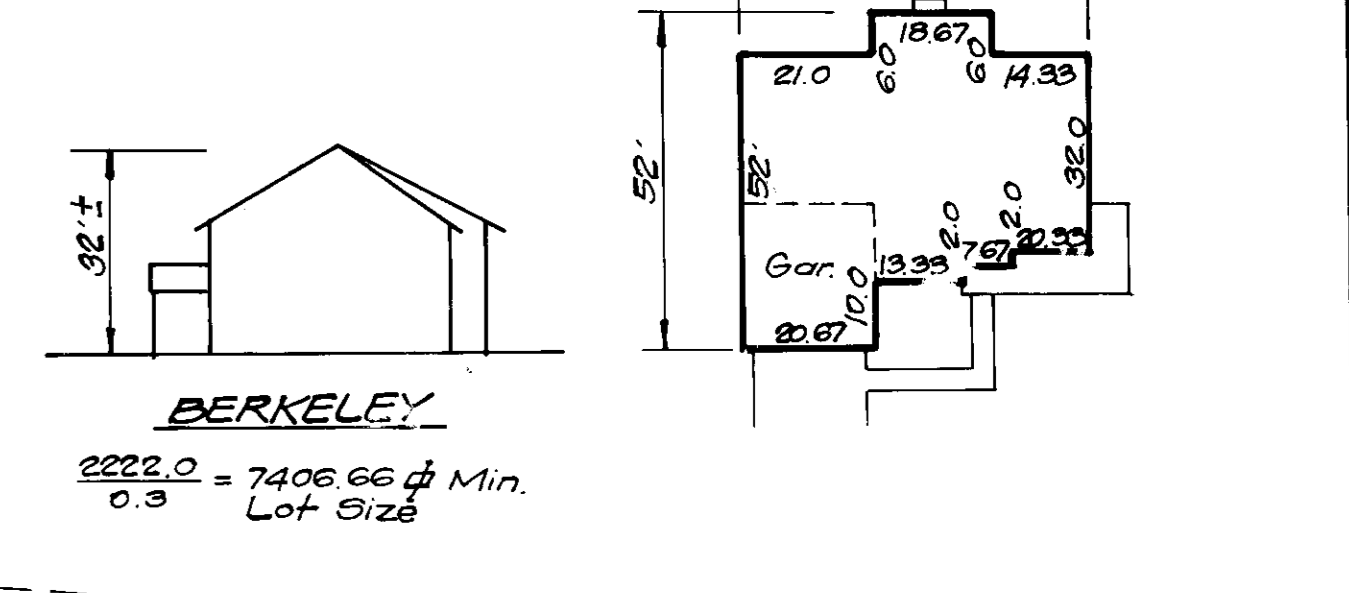
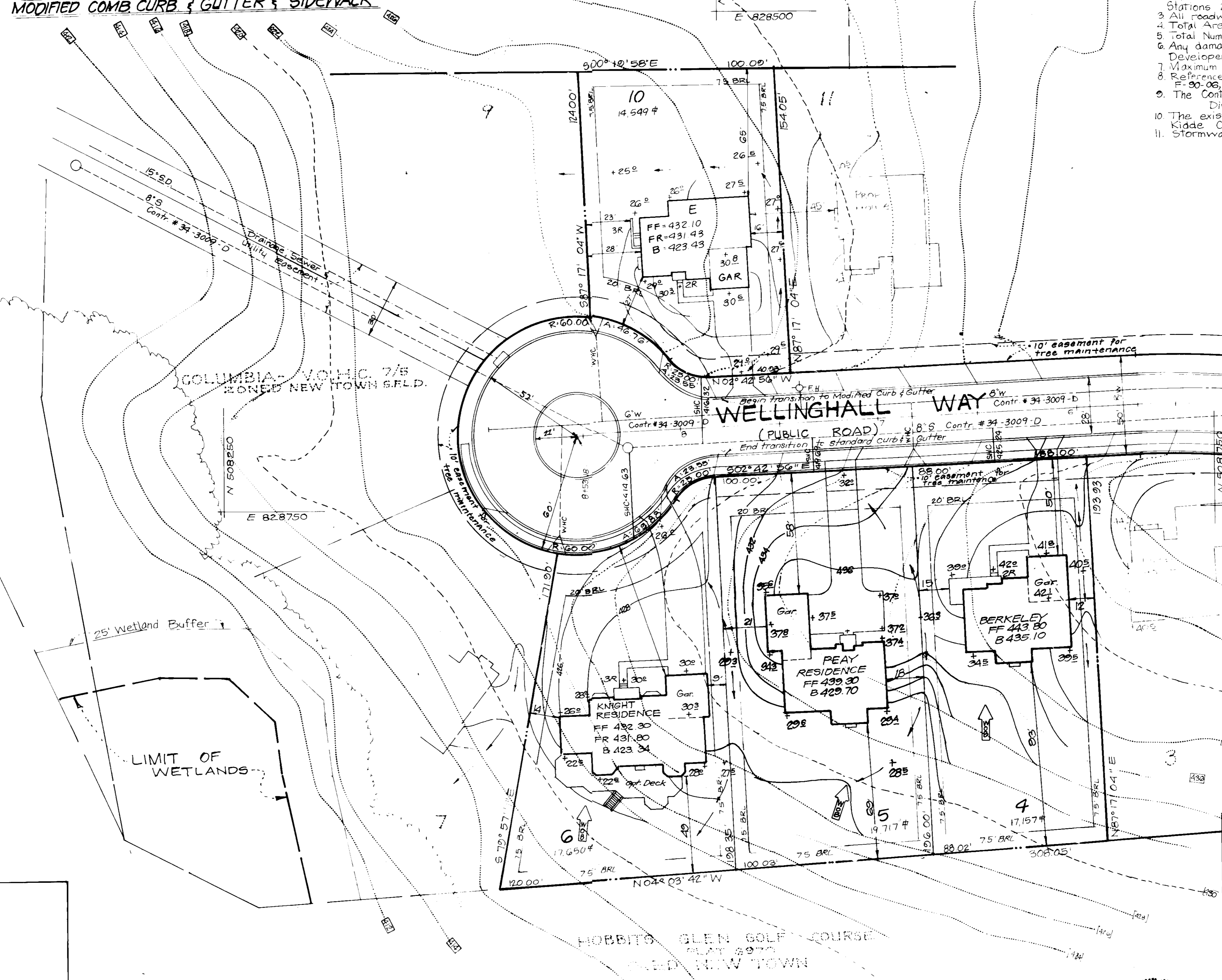
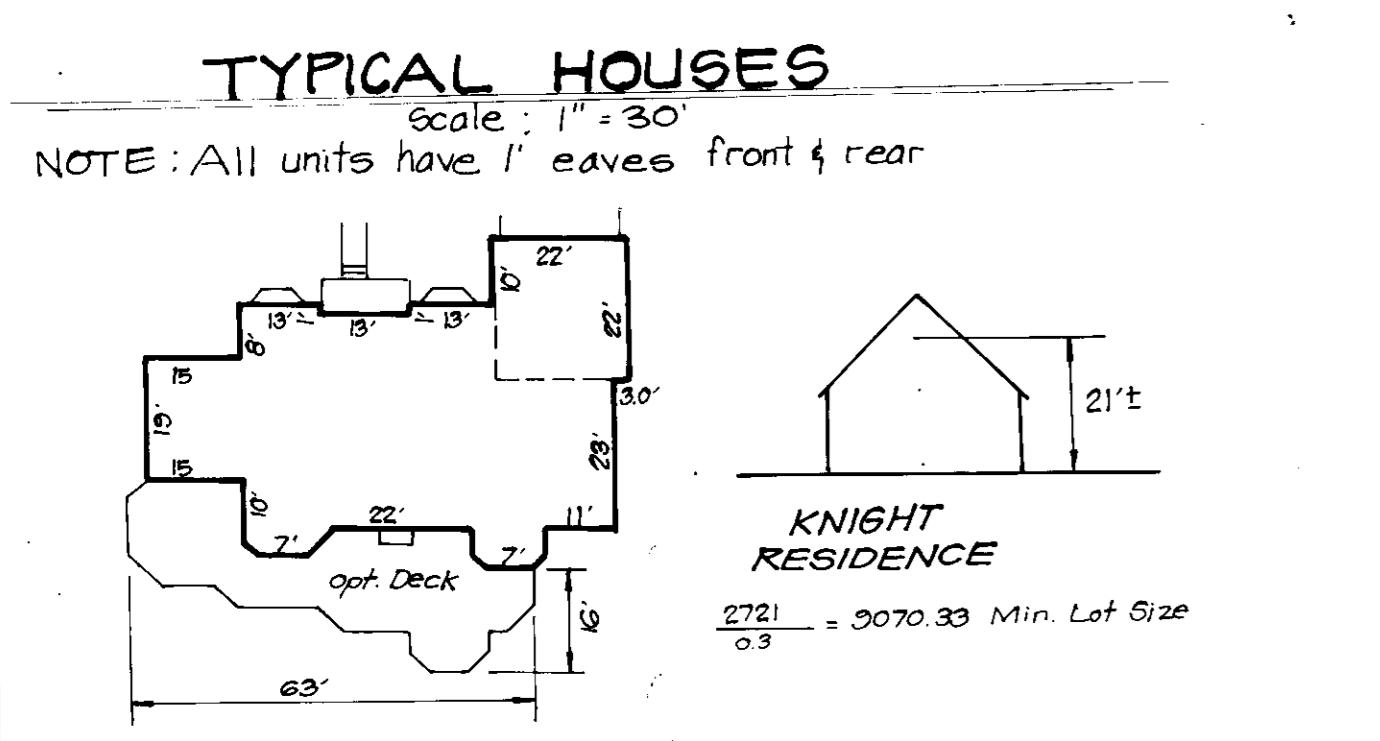
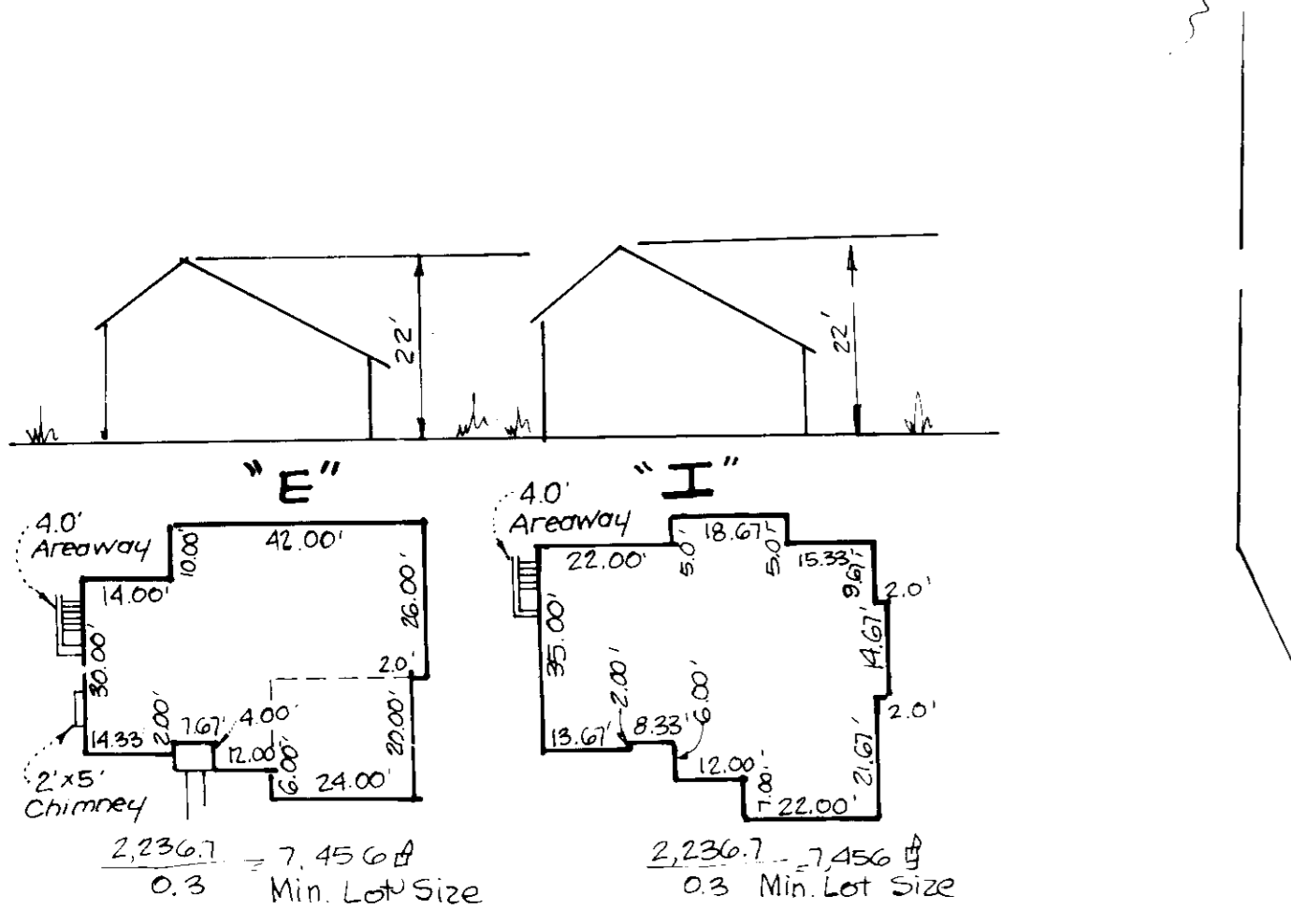
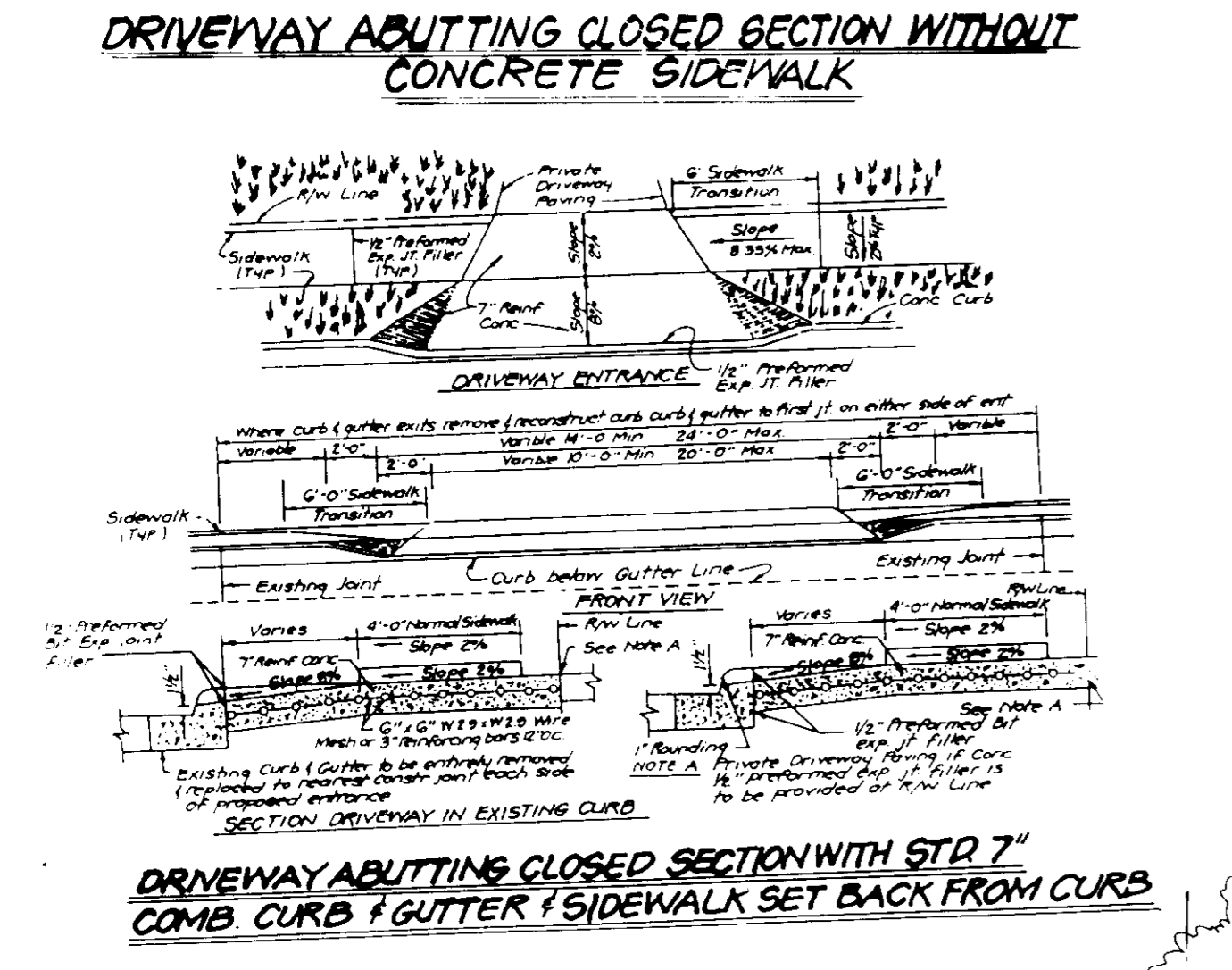


LEGEND
 Contour Interval
 Existing Contour
 Proposed Contour
 Spot Elevation
 Direction of Drainage
 Walk-Out Basement



GENERAL NOTES

1. Subject property zoned New Town per 8-2-85 comprehensive zoning plan.
2. The coordinates shown hereon is based upon Howard County 300000' Control Stations 2730002 and 2730005.
3. All roadways are public and existing.
4. Total Area included in this submission: 1.585 Ac.
5. Total Number of Lots: 4
6. Any damage to county owned right-of-ways shall be corrected at the Developer's expense.
7. Maximum Lot Coverage is 30%.
8. Reference plans: S-38-101, P-20-45, WP-89-14 (Approved Sept 29, 1988), F-90-06, F-204-3009-A, 1008-1071.
9. The Contractor or Developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work at 732-2630.
10. The existing topography shown was taken from plans prepared by Kilde Consultants, Inc. F-90-06.
11. Stormwater Management provided under F-90-06.



LOT NO	STREET ADDRESS
4	5113 Wellingshall Way
5	5117 " "
6	5121 " "
10	5120 Wellingshall Way

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] 4/11/90
 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] 4/24/90
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] 4/12/90
 DATE

NO	REVISIONS	DATE
1	Rev. qrd. per As-Built Conditions lot 5	7-11-97
2	Rev. hse. f. qrd. lot 4, Add hse. typical	12-31-96
3	Rev. hse. f. qrd. lot 5, Add hse. typical	7-11-96
4	Rev. hse. f. qrd. lot 6, Add hse. typical	3-24-94

OWNER/DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT LAND CO.
 1015 Little Patuxent Farm
 Columbia, MD 21044

Subdivision Name:
 COLUMBIA V O H C
 Plat No 9317 Block No 15-17 Zone 29

Section/Area/Lots
 Sect/Area: 7/5, 45.6 & 10
 Lots: 4, 5, 6 & 10

CLARK • FINEROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

DEVELOPER: VLP
DRAWN BY: VLP
CHECKED: JME
DATE: Feb 1990

SITE DEVELOPMENT PLAN
 LOTS 4, 5, 6 & 10
COLUMBIA
 VILLAGE OF HARPERS CHOICE
 SECTION 7 - AREA 5
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: R.C. GOODIER BUILDERS
 10701 Mt. Green Way
 Ellicott City, MD 21043

Water Code: 103
Sewer Code: 6740000

SDP 90 170

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 15 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (30 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (8 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: - Inspect all seeded areas and make needed repairs, replacements and seedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

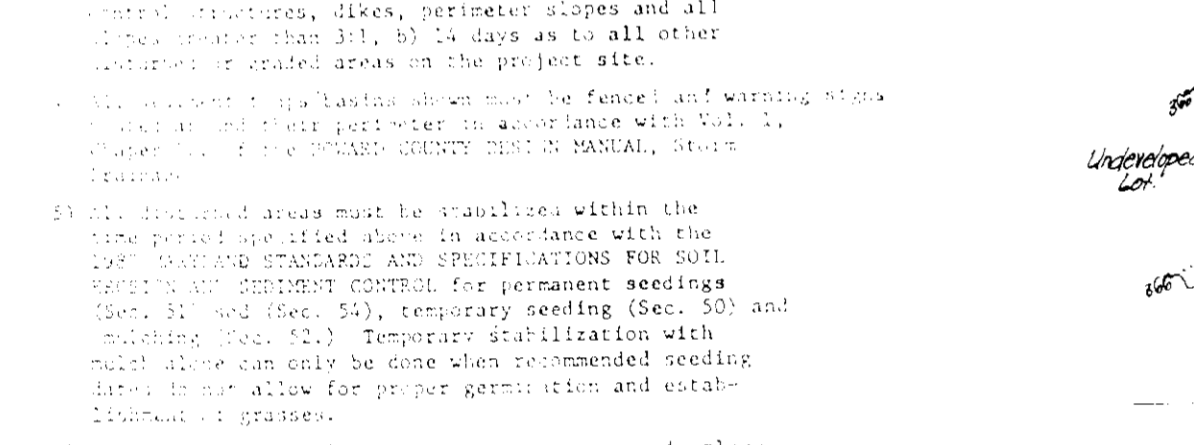
Seeding: For periods March 1 thru April 30 and August 15 thru November 15, seed with 25 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 15, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 15 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (30 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (8 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for approved methods not covered.

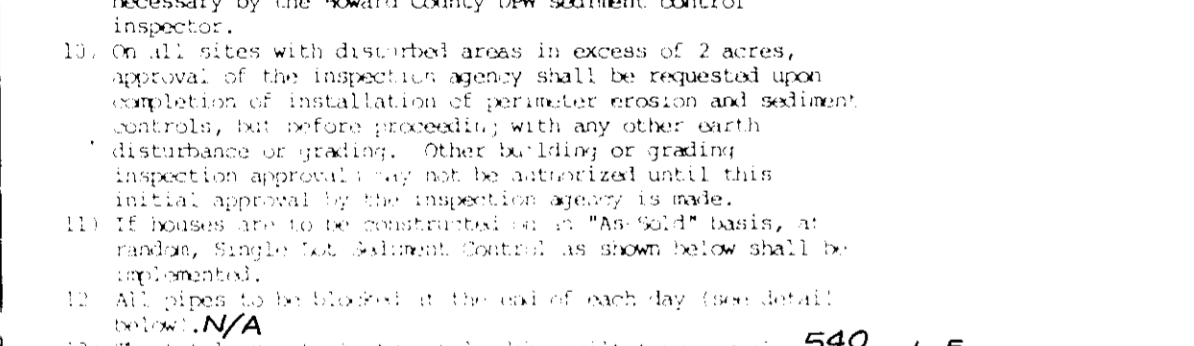
NOTICE TO CONTRACTORS

1. A copy of this notice must be given to the Howard County Office of Inspection and Permitting at the start of any construction, 1992-1-1.
2. The design and construction are to be in accordance with the provisions of this plan and the 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 14 calendar days for all permanent sediment control structures, dikes, perimeter slopes and all other areas greater than 30' by 14 days as to all other areas on graded areas on the project site.
4. Maintenance of all stabilization must be fenced and warning signs placed in accordance with Vol. 11, Chapter 11 of the HOWARD COUNTY ZONING, MARSH, AND TRAILS ORDINANCE.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 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.



CONSTRUCTION SEQUENCE:

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and stabilize in accordance with Stds. & Specs.	30
E. Final removal of the sediment control inspector remove sediment and erosion controls and stabilize.	7



CONSTRUCTION SPECIFICATIONS:

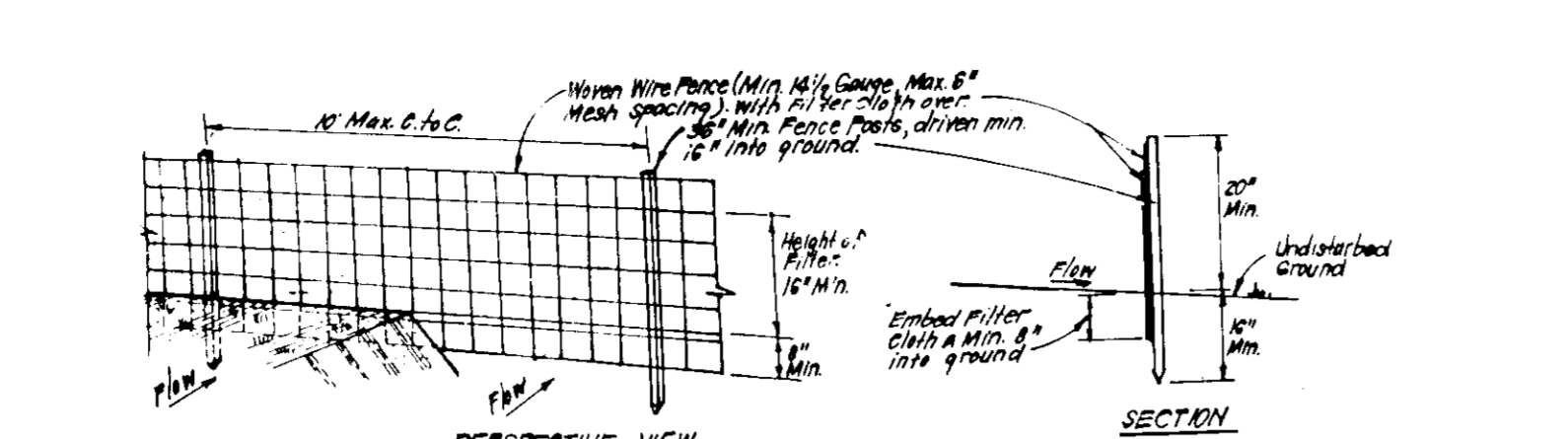
1. Topsoil shall be stored in a clean, graded and striped of any vegetation and root mat. The topsoil shall be stored in a clean, graded and striped of any vegetation and root mat.
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APPROVED: [Signature] 4/17/90

APPROVED: [Signature] 4/24/90

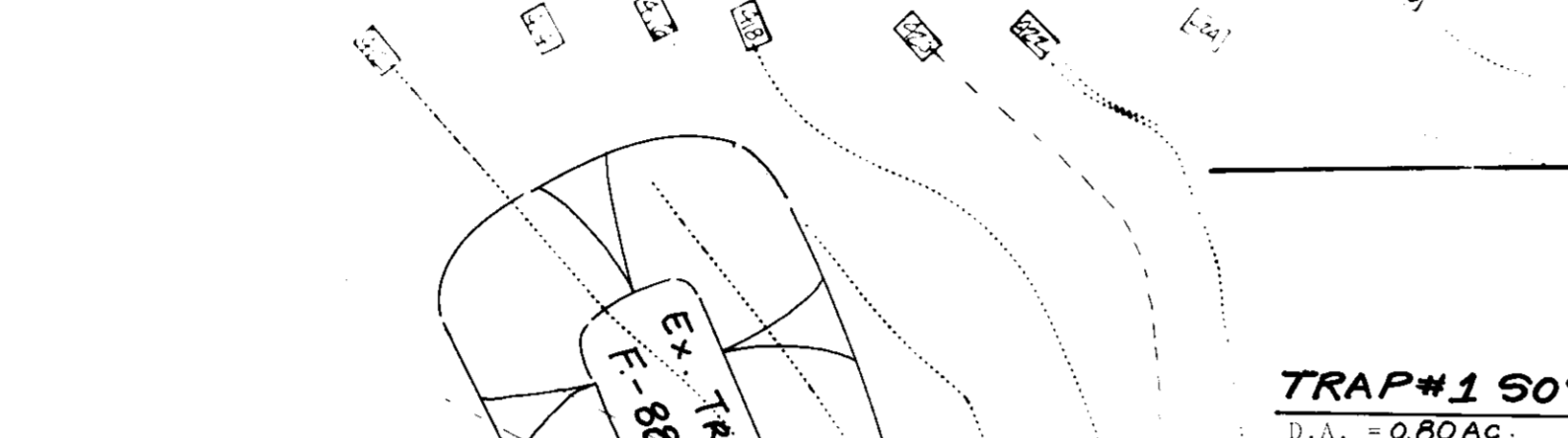
APPROVED: [Signature] 4/17/90

APPROVED: [Signature] 4/17/90



CONSTRUCTION SPECIFICATIONS:

1. When wire fence is fastened securely to fence posts with wire staples.
2. Filter cloth shall be fastened securely to woven wire fence with 1/2" x 1/2" staples every 36" at top and mid section.
3. When 2 sections of filter cloth sections each other they shall be fastened with 6" and 1/2" staples.
4. Maintenance shall be performed as needed and material removed when it begins to develop in silt fence.



TRAP #1 SOST (ST-V)

D.A. = 0.80 AC.

Storage Required = 1440 cf

Storage Provided = 1482 cf

Depth = 3'

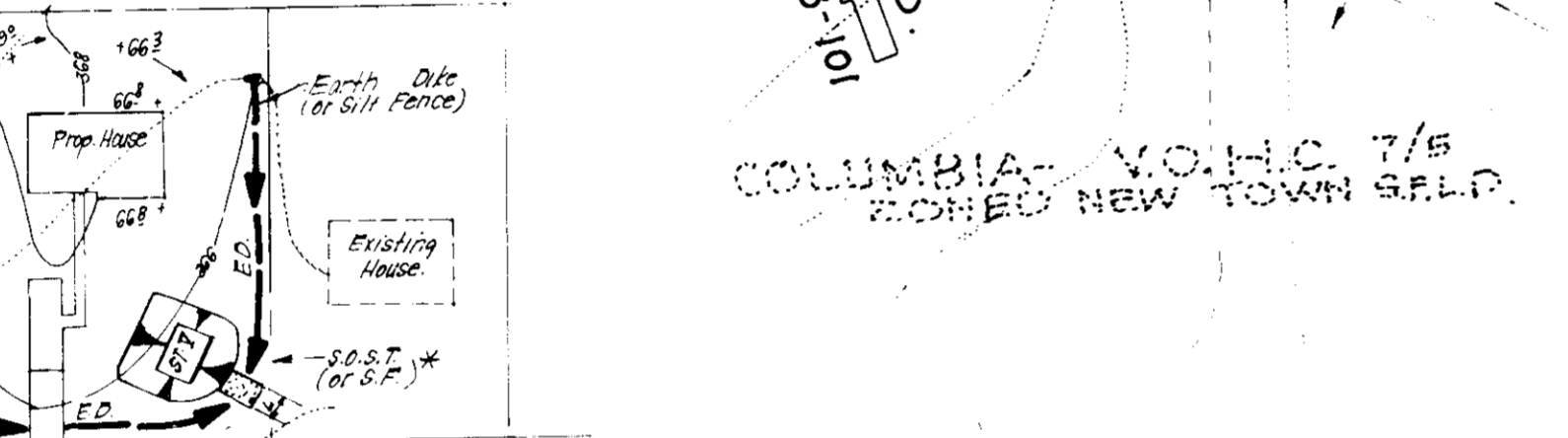
Top of Weir Crest = 424.5

Bottom of elev = 422.0

Clean out elev = 422.0

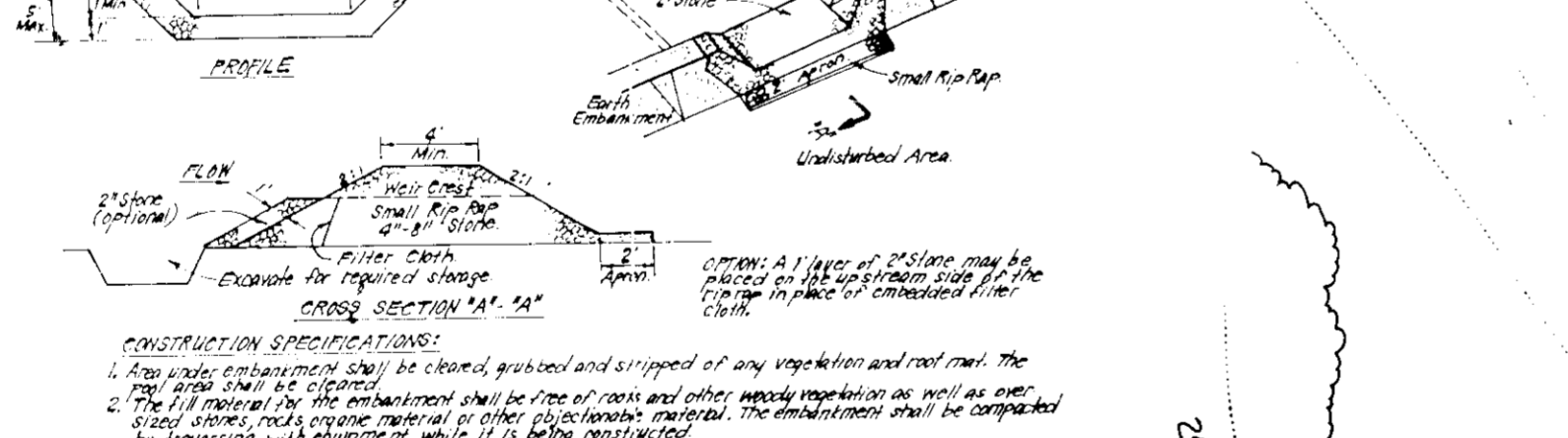
Bottom Dimension = 35' x 10'

1:1 Side Slope



W.S.S.T. (WATER SAVING SYSTEM)

Item	Quantity	Unit
1. 1/2" x 1/2" Staples	100	lb
2. 6" and 1/2" Staples	100	lb
3. 1/2" x 1/2" Staples	100	lb
4. 6" and 1/2" Staples	100	lb
5. 1/2" x 1/2" Staples	100	lb
6. 6" and 1/2" Staples	100	lb
7. 1/2" x 1/2" Staples	100	lb
8. 6" and 1/2" Staples	100	lb
9. 1/2" x 1/2" Staples	100	lb
10. 6" and 1/2" Staples	100	lb



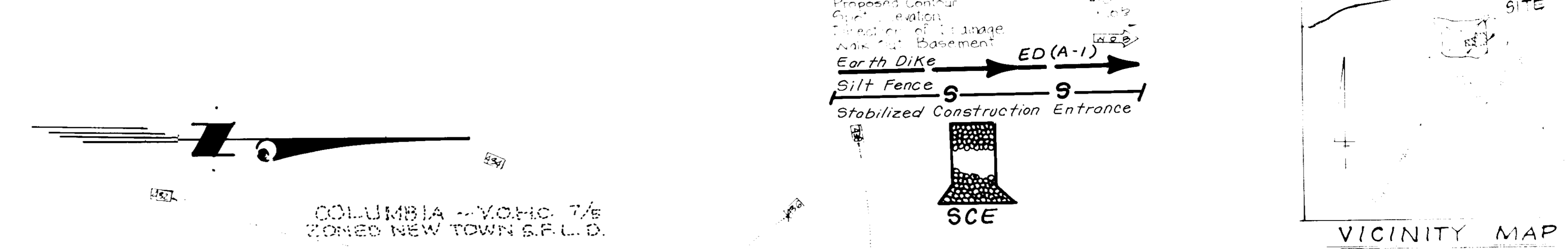
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DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

[Signature] 2/28/90



LEGEND

Contour Interval: 1'

Existing Contour: ---

Proposed Contour: ---

Earth DiKE: ---

Silt Fence: ---

Stabilized Construction Entrance: ---

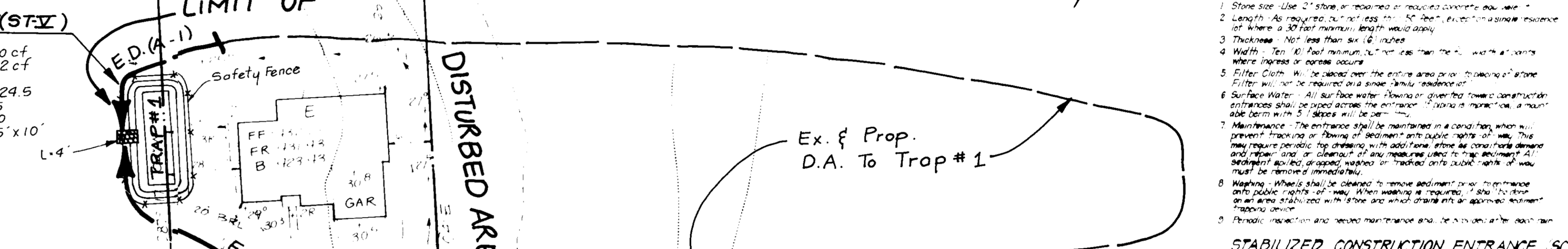
Reviewed for HOWARD COUNTY, M.D.

Signature: [Signature] 4/9/90

U.S. Soil Conservation Service

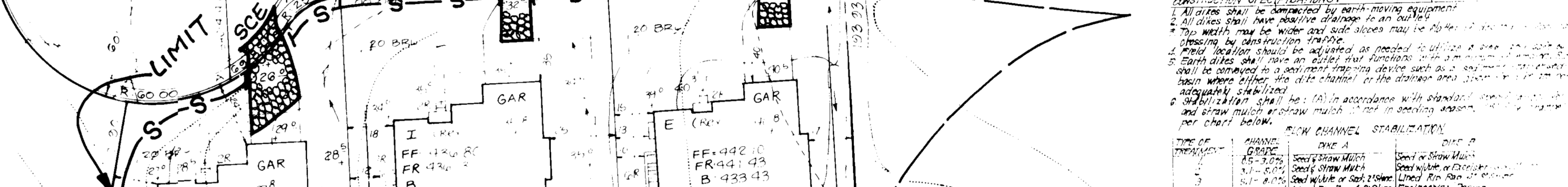
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 4/9/90



CONSTRUCTION SPECIFICATIONS:

1. Stone Size - Use 2" Stone or smaller as required by design.
2. Length - As required by design.
3. Thickness - Not less than 18" inches.
4. Weir Crest - Top of weir crest shall be 1/2" above the design water level.
5. Filter Cloth - Will be placed over the entire area of the top of the stone filter. The filter cloth shall be secured to the stone filter with 1/2" x 1/2" staples every 36" at top and mid section.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment into public rights of way. This may require periodic top dressing with the same stone used in the original design and other maintenance as may be required. The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment into public rights of way. This may require periodic top dressing with the same stone used in the original design and other maintenance as may be required.
7. Weir Crest - The weir crest shall be 1/2" above the design water level.
8. Filter Cloth - Will be placed over the entire area of the top of the stone filter. The filter cloth shall be secured to the stone filter with 1/2" x 1/2" staples every 36" at top and mid section.
9. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment into public rights of way. This may require periodic top dressing with the same stone used in the original design and other maintenance as may be required.



CONSTRUCTION SPECIFICATIONS:

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ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 2-28-90

G. Nelson Clark

CLARK • FINEBROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

7135 MINISTREL WAY • COLUMBIA MD 21048 (301) 381-7500 BALTO. (301) 621-8100 WASH.

DESIGNED BY: KIWM

DRAWN BY: BAK

CHECKED BY: KIWM

DATE: Feb. 1990

SCALE: 1" = 10'

DRAWING: 2 of 2

JOB NO.: 90-0279E

FILE NO.: 90-0279E

OWNER/DEVELOPER: HOWARD RESEARCH & DEVELOPMENT LAND CO. 10215 Little Patuxent Pkwy. Columbia, MD 21044

FOR: R.C. GOODIER BUILDERS 11207 Mc Gee Way Ellicott City, MD. 21043

DATE: Feb. 1990

DF-90-170