

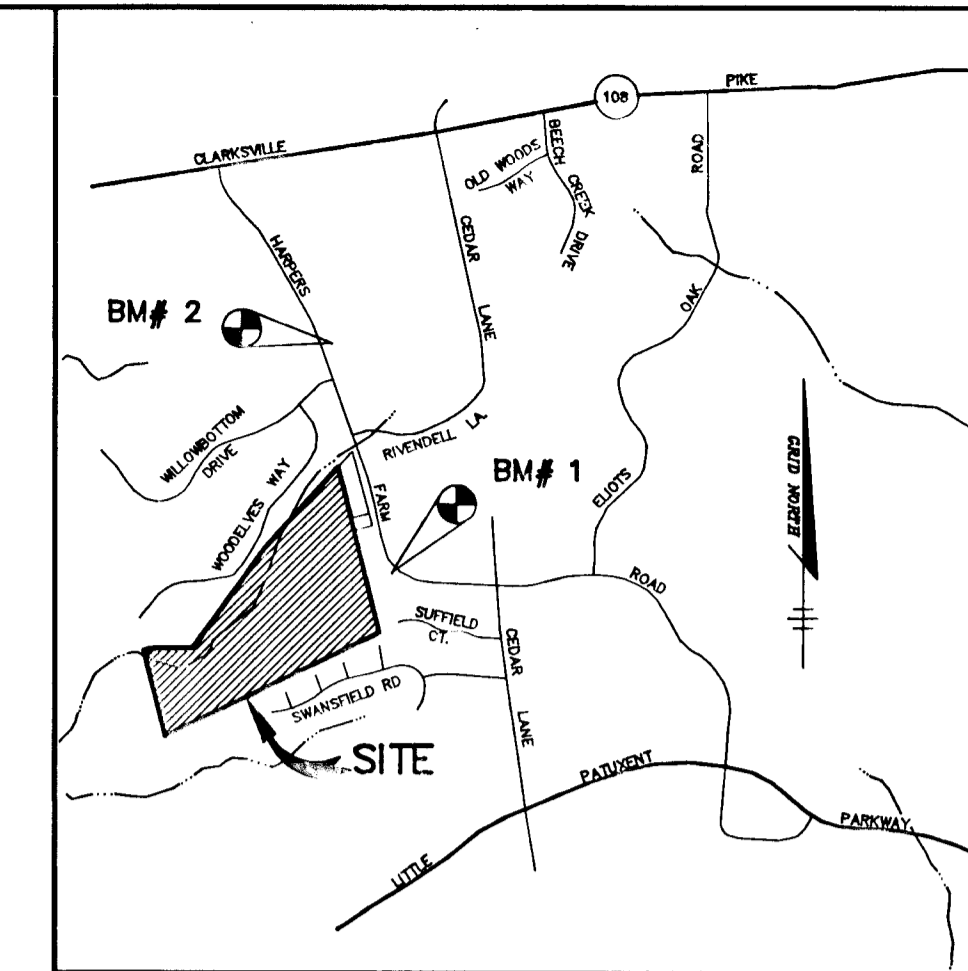
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE OF WOODLOT ROAD FROM STA. 0+00 TO STA. 8+00 BUCKSAW COURT FROM STA. 0+00 TO STA. 2+59.57
3	PLAN AND PROFILE OF WOODLOT ROAD FROM STA. 8+00 TO STA. 17+02.20 STA. 5+50 TO STA. 10+60.59. PLAN AND PROFILE
4	PLAN AND PROFILE OF WOODNOTE LANE FROM STA. 0+00 TO STA. 5+50 (SE) AND STA. 0+00 TO STA. 2+70.13 (NW). PLAN AND PROFILE OF HARVEST SCENE
5	PLAN AND PROFILE OF WOODNOTE LANE FROM STA. 5+50 TO STA. 11+22.61
6	GRADING AND SEDIMENT CONTROL PLAN
7	GRADING AND SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL NOTES AND DETAILS
9	STORM DRAIN PROFILES
10	STORM DRAIN PROFILES AND DETAIL SHEET
11	DRAINAGE AREA MAP
12	DETAILS

# WOODLOT

## SECTION I

### ROADWAYS, STORM DRAINS AND STORMWATER MANAGEMENT

#### 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



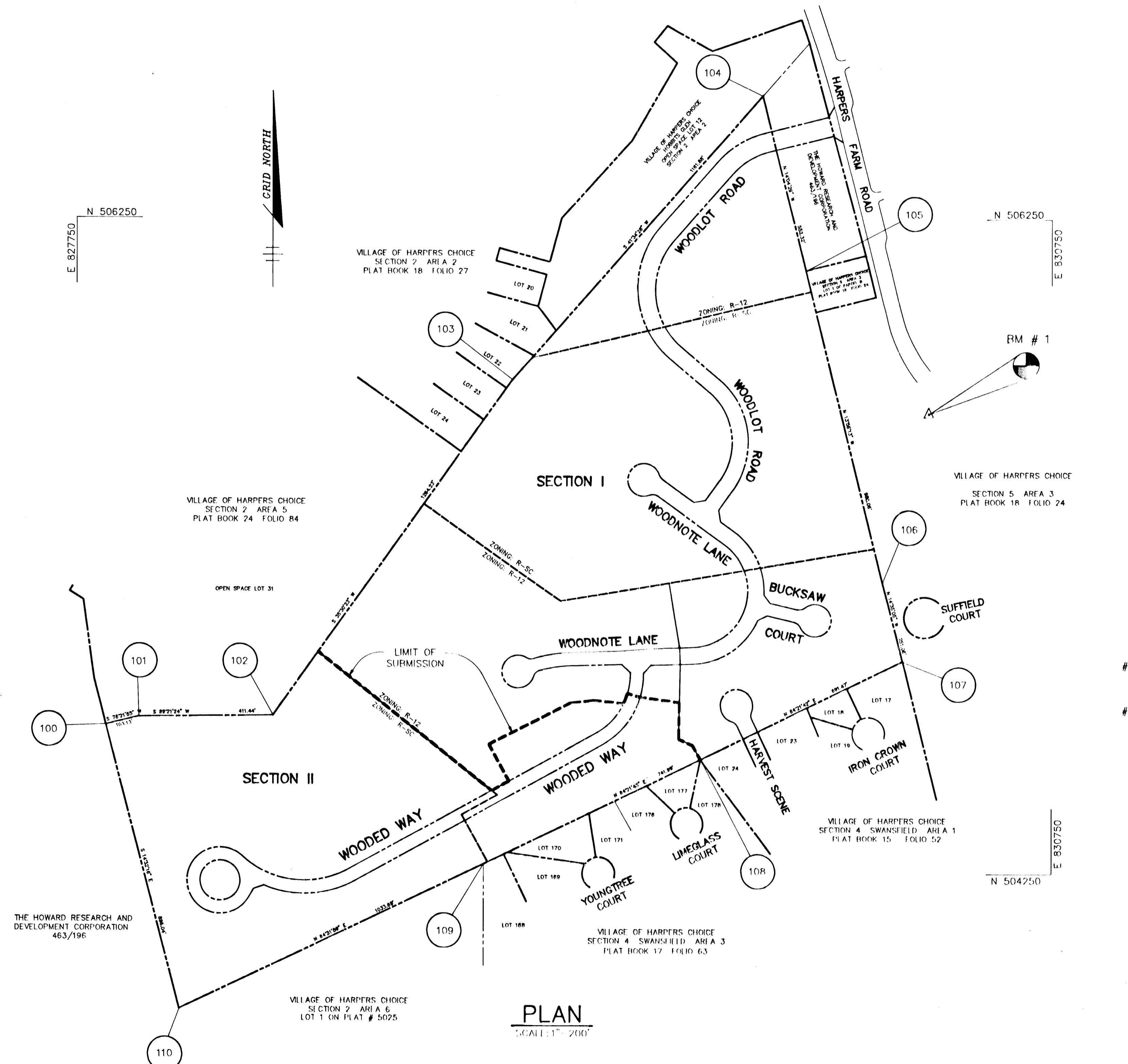
**VICINITY MAP**  
SCALE: 1"=2000'

### GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- APPROXIMATE LOCATION EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 

MISS UTILITY	1-800-257-777
BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
COLONIAL PIPELINE	795-1390
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 AMENDMENTS.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:
 

WOODLOT ROAD - STA. 0+00 TO STA. 6+79.72 - 60' R.O.W.	30 MPH
WOODLOT ROAD - STA. 10+78.78 TO STA. 17+02.20 - 50' R.O.W.	30 MPH
WOODNOTE LANE - STA. 0+00 TO STA. 2+16.93 - 50' R.O.W.	30 MPH
WOODNOTE LANE - STA. 0+00 TO STA. 7+73.62 - 50' R.O.W.	30 MPH
WOODNOTE LANE - STA. 7+73.62 TO STA. 11+22.61 - 40' R.O.W.	30 MPH
BUCKSAW COURT - STA. 0+00 TO STA. 14+93.49 - 40' R.O.W.	30 MPH
WOODDED WAY - STA. 0+00 TO STA. 20+06.13 - 40' R.O.W.	30 MPH
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEAL LEVEL DATUM, 1929.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-12 AND R-SC PER ZB:933M
- TOPO TAKEN FROM AERIAL MAPS FLOWN IN JANUARY, 1992 BY WINGS AERIAL MAPPING, INC.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAS BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- SEE OFFICE OF PLANNING AND ZONING FILE NO'S. ZB:933M, WP-93-66, SP-93-19 & PD-278
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III - ROAD AND BRIDGES, PAGE 4A-26.
- THE STORMWATER MANAGEMENT FACILITIES PROPOSED FOR THIS SITE ARE CLASS "A" HAZARD FACILITIES IN THE EVENT OF A FAILURE OF THE EMBANKMENT DAMAGE WILL BE LIMITED TO FLOODPLAINS AND COUNTY ROADS.
- THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. ANY PAVEMENT SECTIONS DETERMINED BY THE GEOTECHNICAL ENGINEER THAT IS LESS THAN THE HOWARD COUNTY MINIMUM STANDARD, SHALL FIRST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
- STORMWATER MANAGEMENT FOR THIS DEVELOPMENT WILL BE AN EXTENDED DETENTION FACILITY CREATED BY ROAD FILLS.
- THE 100-YEAR FLOODPLAIN STUDY HAS BEEN PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. AND APPROVED UNDER SP-93-13.
- WETLANDS DELINEATION IS PROVIDED BY RIEMER MUEGGE & ASSOCIATES, INC.
- WP-93-66 WAS A REQUEST TO WAIVE SECTION 16.113.C.10 TO PERMIT A CUL-DE-SAC LENGTH TO EXCEED 1200 FEET, SECTION 16.115.B.5 TO PERMIT LOTS TO DERIVE FRONTAGE ALONG A COMMONLY OWNED PRIVATE DRIVE IN EXCESS OF 200 FEET IN LENGTH AND SECTION 16.129.2 TO PERMIT THE OMISSION OF CERTAIN SIDEWALKS WITHIN THE SINGLE FAMILY ATTACHED SECTION, AND SECTION 16.120.B.(1) TO PERMIT FIVE ADJACENT PIPESTEM LOTS. THIS WAIVER PETITION WAS APPROVED ON MARCH 6, 1993.
- WETLANDS PERMIT APPLICATION NO. 93-NF-0192.



### BENCHMARKS

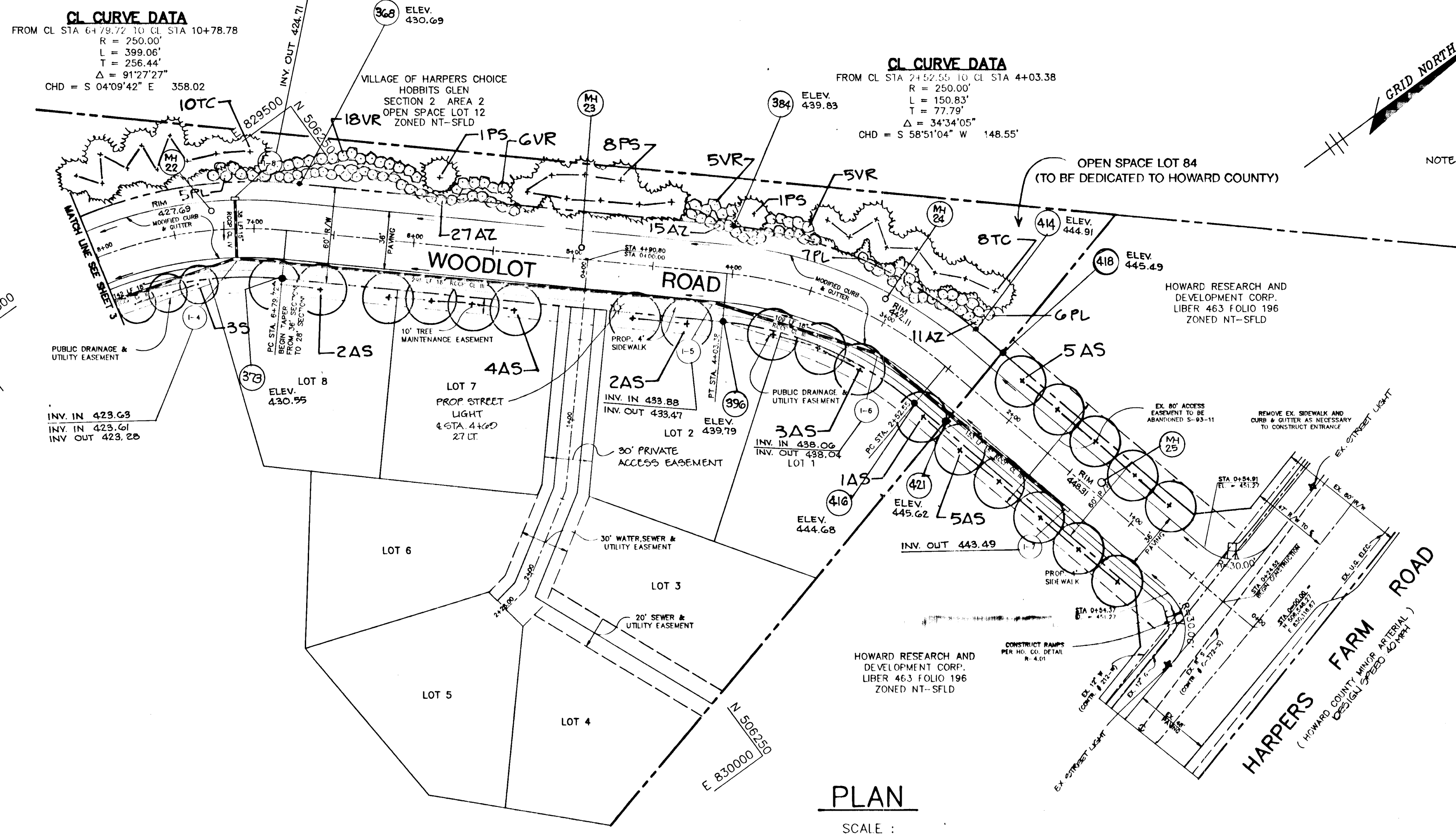
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	N 505654.515	
	E 830372.788	
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	N 507944.385	
	E 829697.643	

### COORDINATE LIST

NO.	NORTHING	EASTING
100	504700.852	827841.837
101	504725.162	827942.057
102	504729.782	828353.467
103	505758.930	829087.728
104	506628.124	829858.743
105	506092.389	829993.059
106	505141.179	830229.108
107	504898.209	830292.327
108	504599.020	829668.937
109	504277.971	828999.996
110	503833.500	828066.760

AS BUILT CERTIFICATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	DATE
Arthur E. Muegge # 8707	10/25/93
Gina Trimmery CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
APPROVED: [Signature]	DATE
James M. [Signature]	10/20/93
CHIEF, BUREAU OF HIGHWAYS	
APPROVED: [Signature]	DATE
Charles [Signature]	10/11/93
CHIEF, BUREAU OF ENGINEERING	
DATE NO.	REVISION
OWNER	DEVELOPER
JOHN LEE CARROLL ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042
PROJECT <b>WOODLOT SECTION I</b>	
AREA	TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE SHEET	
<b>RIEMER MUEGGE &amp; ASSOCIATES, INC.</b> Planners • Surveyors • Engineers 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-987-8900 FAX: 410-987-9282	
DATE	DR:933M SP-93-13 WP-93-66 PB-278
10.4.93	DESIGNED BY: JTD
	DRAWN BY: DBS
	PROJECT NO: 83017
	DATE: OCTOBER 4, 1993
	SCALE: AS SHOWN
JAYKANT D. PAREKH # 19148	DRAWING NO. 1 OF 12

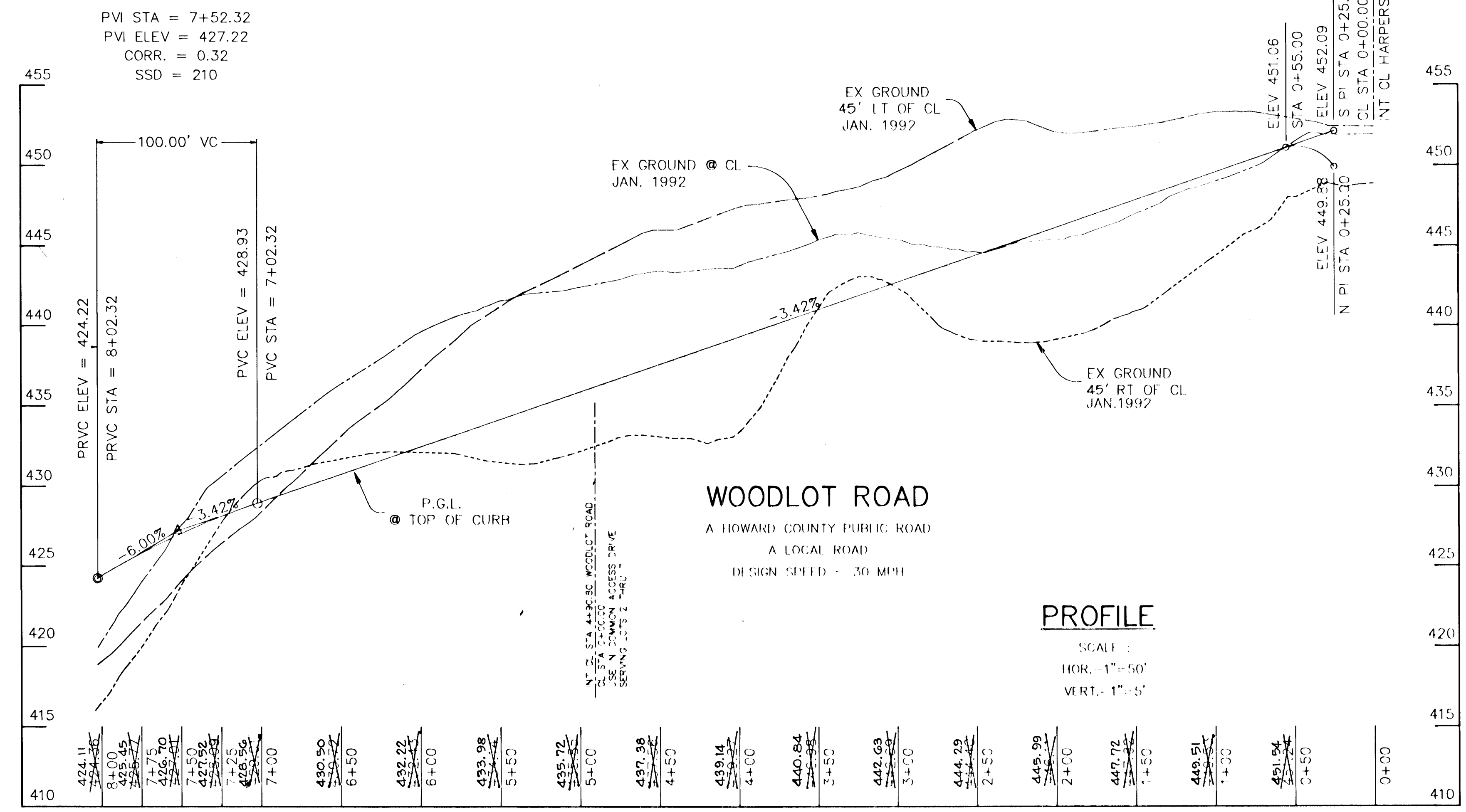
1677 1677



NOTE: - PROP STREET LIGHTS 14 FT. FIBERGLASS BRONZE, BLACK OR GRAY ORNAMENTAL, WITH COLONIAL OR MODERN POST TOPS 100 HPS TYPICAL.  
 - SWANFIELD ROAD AND HARVEST SCENE ARE NOT TO BE USED FOR THE FOLLOWING: CONSTRUCTION TRAFFIC IN CONNECTION WITH THE CONSTRUCTION OF ANY HOME EXCEPT FOR THOSE ON LOTS 40-52; THE DELIVERY OF MATERIAL AND EQUIPMENT FOR SITE WORK AFTER THE ROAD IS OPEN FOR HARVEST SCENE IS COMPLETE; AND PAVING OF ANY PORTION OF PROPERTY EXCEPT FOR THE HARVEST SCENE CURVE-52-53C.

**PLANT LIST**  
 (INCLUDES ALL SHEETS)

QTY	KEY	BOTANICAL NAME Common Name	SIZE	REMARKS
16	AR	ACER RUBRUM 'OCTOBER GLORY' October Glory Red Maple	2 1/2" - 3" Cal. 12' - 14' Ht.	Full Crown B & B
37	AS	ACER SACCHARUM 'GREEN MOUNTAIN' Green Mountain Sugar Maple	2 1/2" - 3" Cal. 10' - 14' Ht.	Full Crown B & B
53	AZ	AZALEA 'DELAWARE VALLEY WHITE' Delaware Valley White Azalea	24" - 30" Ht.	B & B
17	MF	MALUS FLORIBUNDA 'HARVEST GOLD' Harvest Gold Crabapple	1 1/2" - 2" Cal. 10' - 12' Ht.	B & B
18	PL	PRUNUS LAUROCERASIS 'SCHIPKAENSIS' Skip Cherry Laurel	30" - 36" Ht.	B & B
10	PS	PINUS STROBUS White Pine	4' - 5' Ht.	Unsheared B & B
29	PY	PRUNUS YEDOENSIS Yoshino Cherry	1 1/2" - 2" Cal. 10' - 12' Ht.	B & B
30	QR	QUERCUS RUBRA Red Oak	2 1/2" - 3" Cal. 12' - 14' Ht.	B & B
19	S	STYRAX JAPONICA Japanese Snowbell	1 1/2" - 2" Cal. 10' - 12' Ht.	B & B
20	TC	TSUGA CANADENSIS Canadian Hemlock	4' - 5' Ht.	Unsheared B & B
34	VR	VIBURNUM RHYTIDOPHYLLUM Leatherleaf Viburnum	4' Ht.	B & B
20	ZS	ZELKOVA SERRATA Zelkova	2 1/2" - 3" Cal. 12' - 14' Ht.	B & B



AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 10/25/93  
 DATE: 10/20/93  
 DATE: 10/21/93

REVISION: 3/29/94, REMOVE PROP. Street Light @ Sta. 0+14, 22' Lt., Woodlot Rd.

OWNER / DEVELOPER JOHN LEE CARROLL ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	DEVELOPER WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042
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PROJECT: WOODLOT SECTION I  
 AREA: TAX MAP 29 PARCEL 365  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

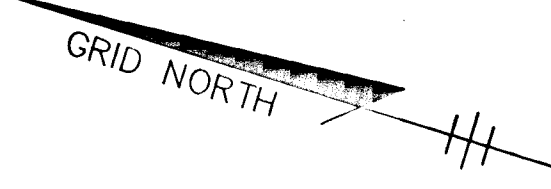
TITLE: PLAN AND PROFILE OF WOODLOT ROAD FROM STA 0+00 TO STA 8+00

RIEMER MUEGGE & ASSOCIATES, INC.  
 Planners • Engineers • Surveyors  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045  
 410-997-8900 FAX: 410-997-9282

DATE: 10.4.93  
 DESIGNED BY: JTD  
 DRAWN BY: JTD  
 PROJECT NO: 83017  
 DATE: OCTOBER 4, 1993  
 SCALE: AS SHOWN  
 DRAWING NO. 2 OF 12

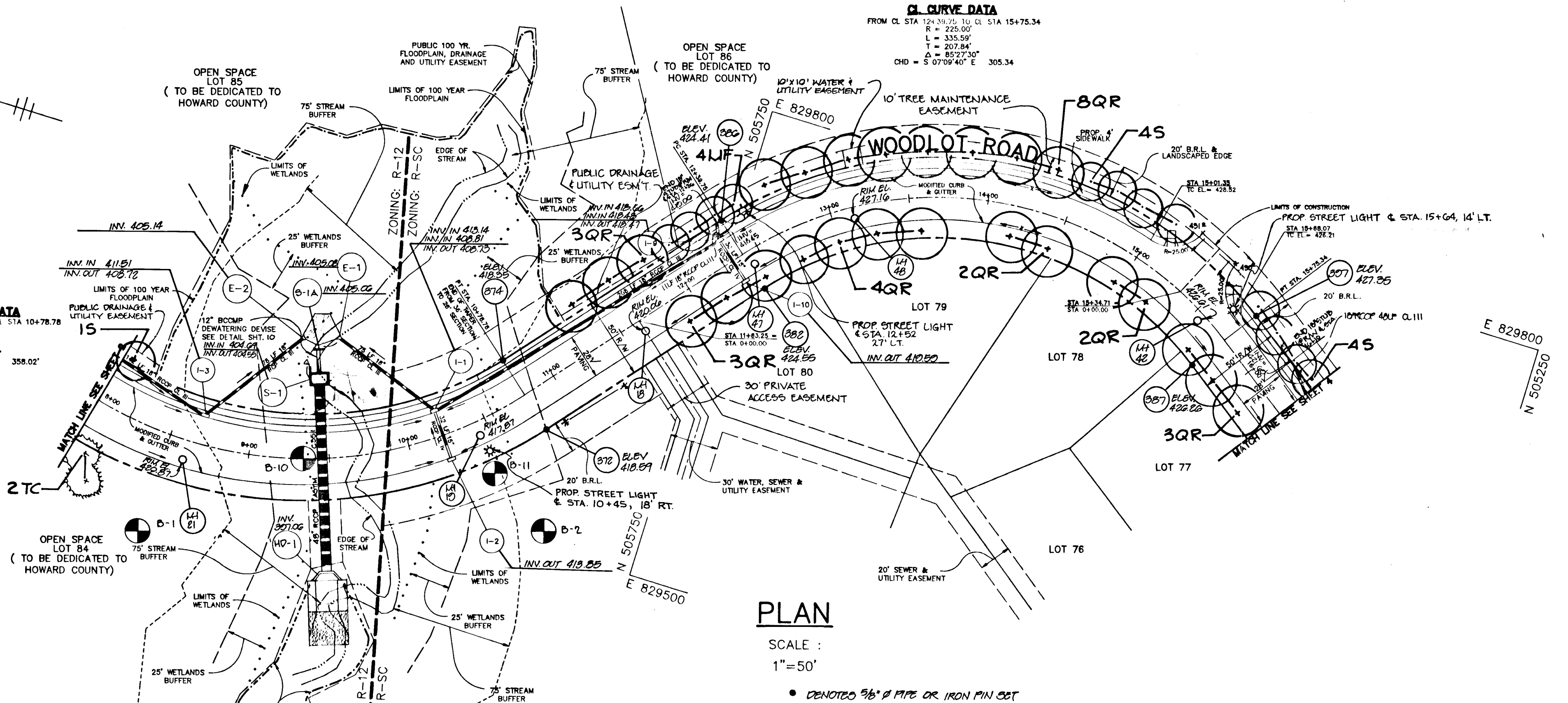
JAYKANT D. PAREKH #19148

1677



**Q CURVE DATA**  
 FROM CL STA 15+75.22 TO CL STA 104+78.78  
 R = 250.00'  
 L = 288.00'  
 T = 228.44'  
 Δ = 81.2727°  
 CHD = S 04°09'42" E 358.02'

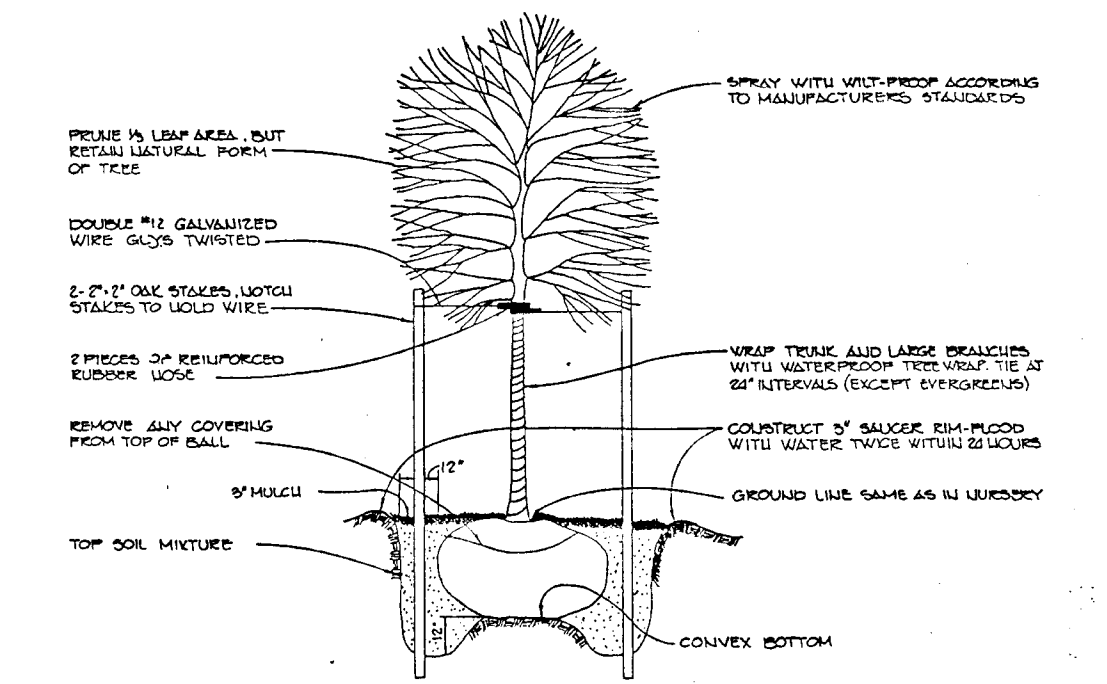
**Q CURVE DATA**  
 FROM CL STA 124.00 TO CL STA 15+75.34  
 R = 225.00'  
 L = 335.59'  
 T = 207.84'  
 Δ = 82°27'30"  
 CHD = S 07°09'40" E 305.34



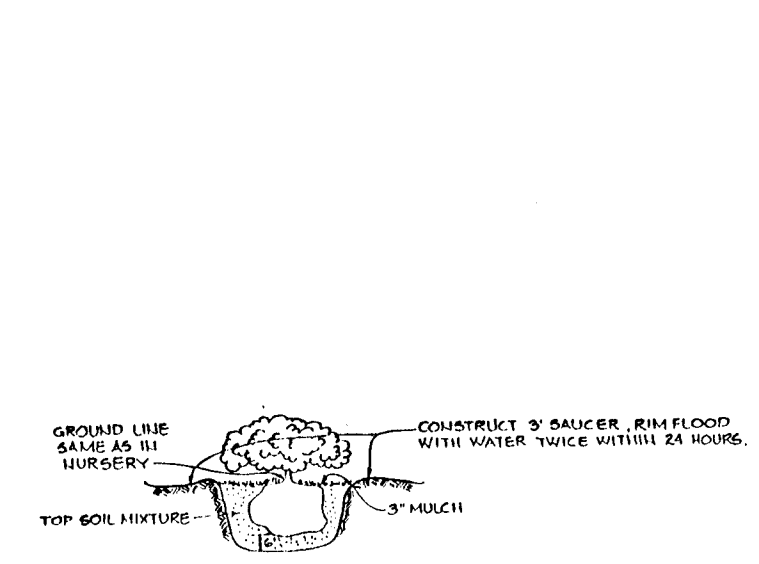
**PLAN**

SCALE :  
 1" = 50'

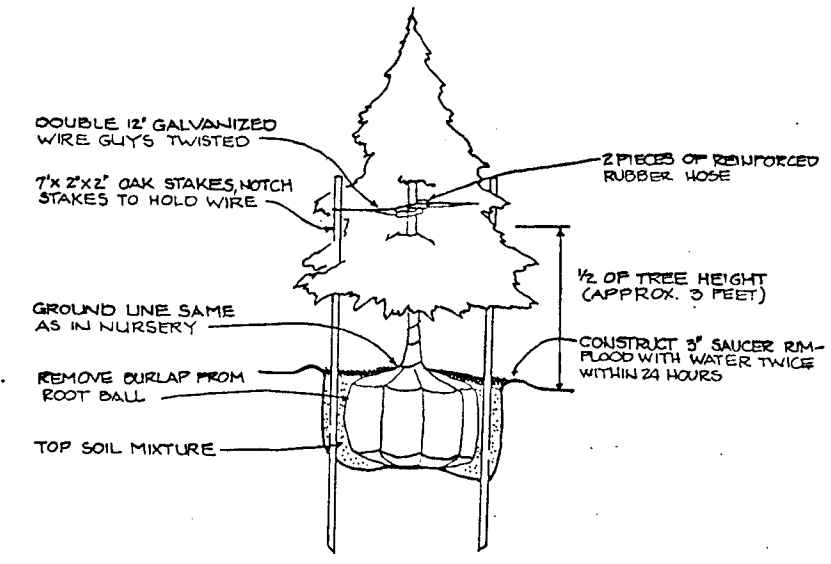
• DENOTES 3/8" PIPE OR IRON PIN SET



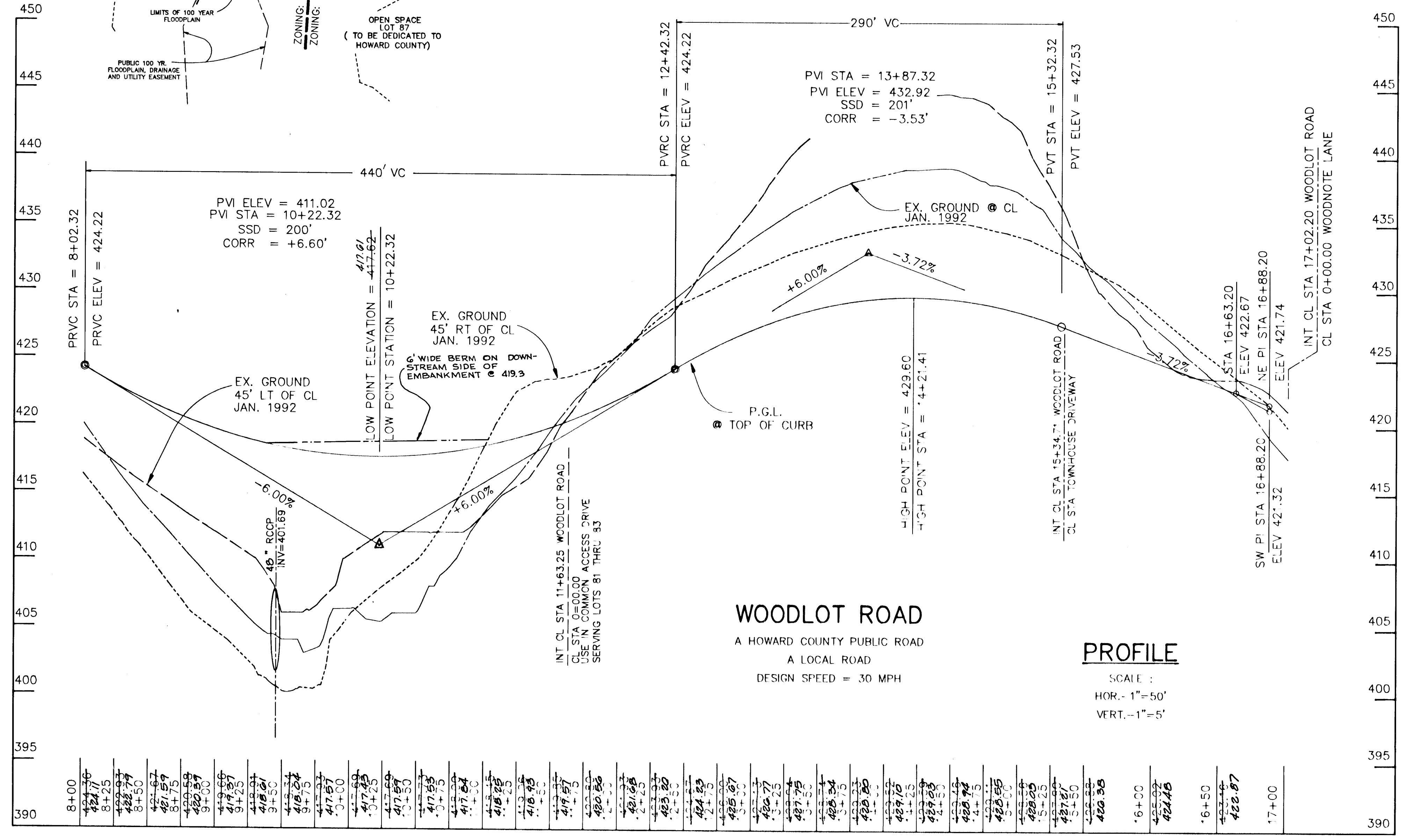
TREE PLANTING DETAIL N.T.S.



SHRUB PLANTING DETAIL



EVERGREEN PLANTING DETAIL N.T.S.



**LEGEND**

- SHADE TREE
- FLOWERING TREE
- EVERGREEN TREES
- SHRUBS
- EXISTING WOODS AT R.O.W. \*

AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Gina Jammery* 10/25/93  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John Lee Carroll* 10/20/93  
 CHIEF, LAND DEVELOPMENT DIVISION

*Ramon H. Brown* 10/20/93  
 CHIEF, BUREAU OF HIGHWAYS

*Charles E. Sapan* 10/21/93  
 CHIEF, BUREAU OF ENGINEERING

OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042

PROJECT: **WOODLOT SECTION I**

AREA: TAX MAP 29 PARCEL 365  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE: **PLAN AND PROFILE OF WOODLOT ROAD**

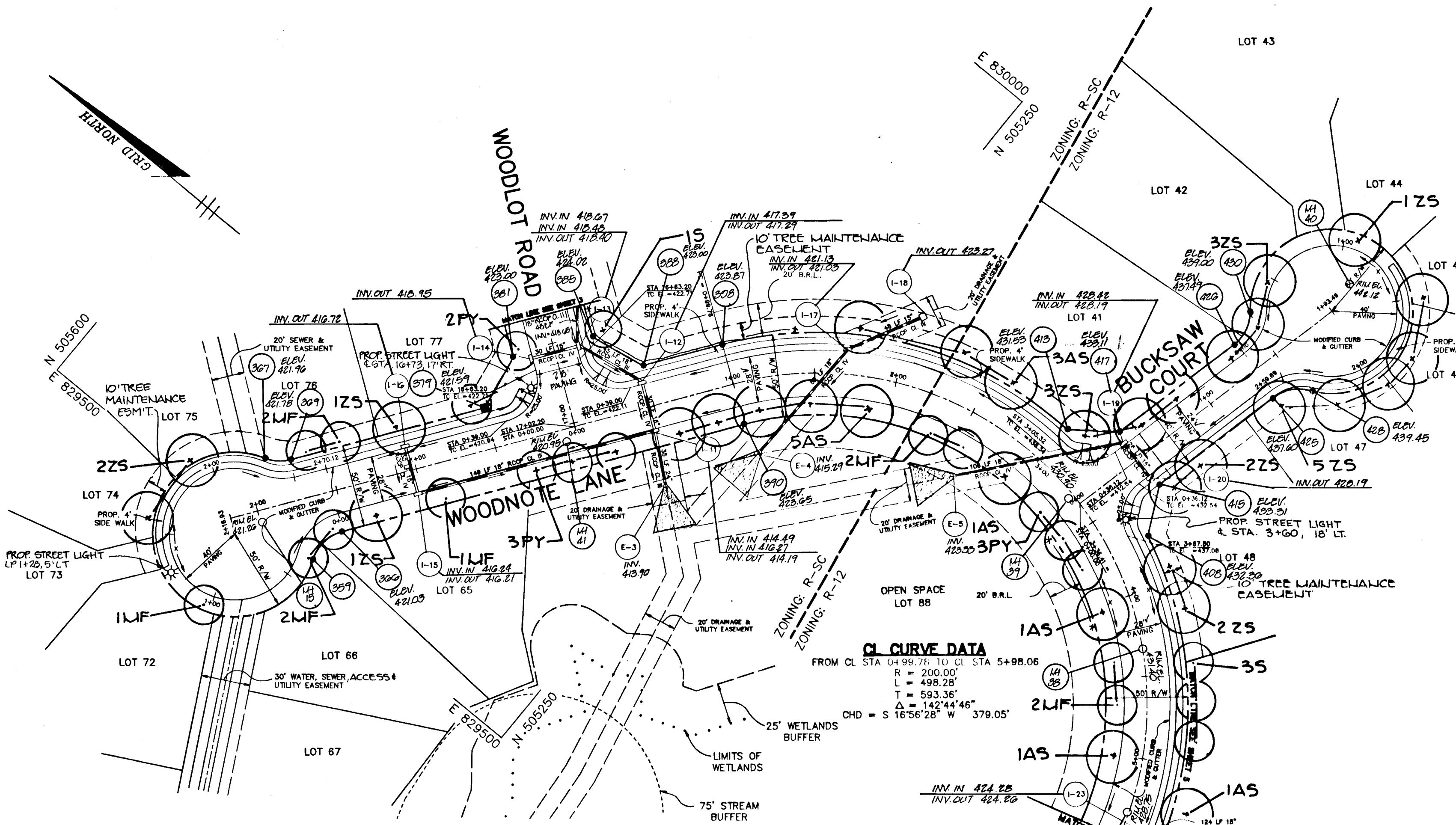
RIEMER MUEGGE & ASSOCIATES, INC.  
 Planners • Engineers • Surveyors  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045  
 410-997-8900 FAX: 410-997-9282

10.4.93 DATE

DESIGNED BY: JTD  
 DRAWN BY: JTD  
 PROJECT NO: 83017  
 DATE: OCTOBER 4, 1993  
 SCALE: AS SHOWN  
 DRAWING NO. 3 OF 12

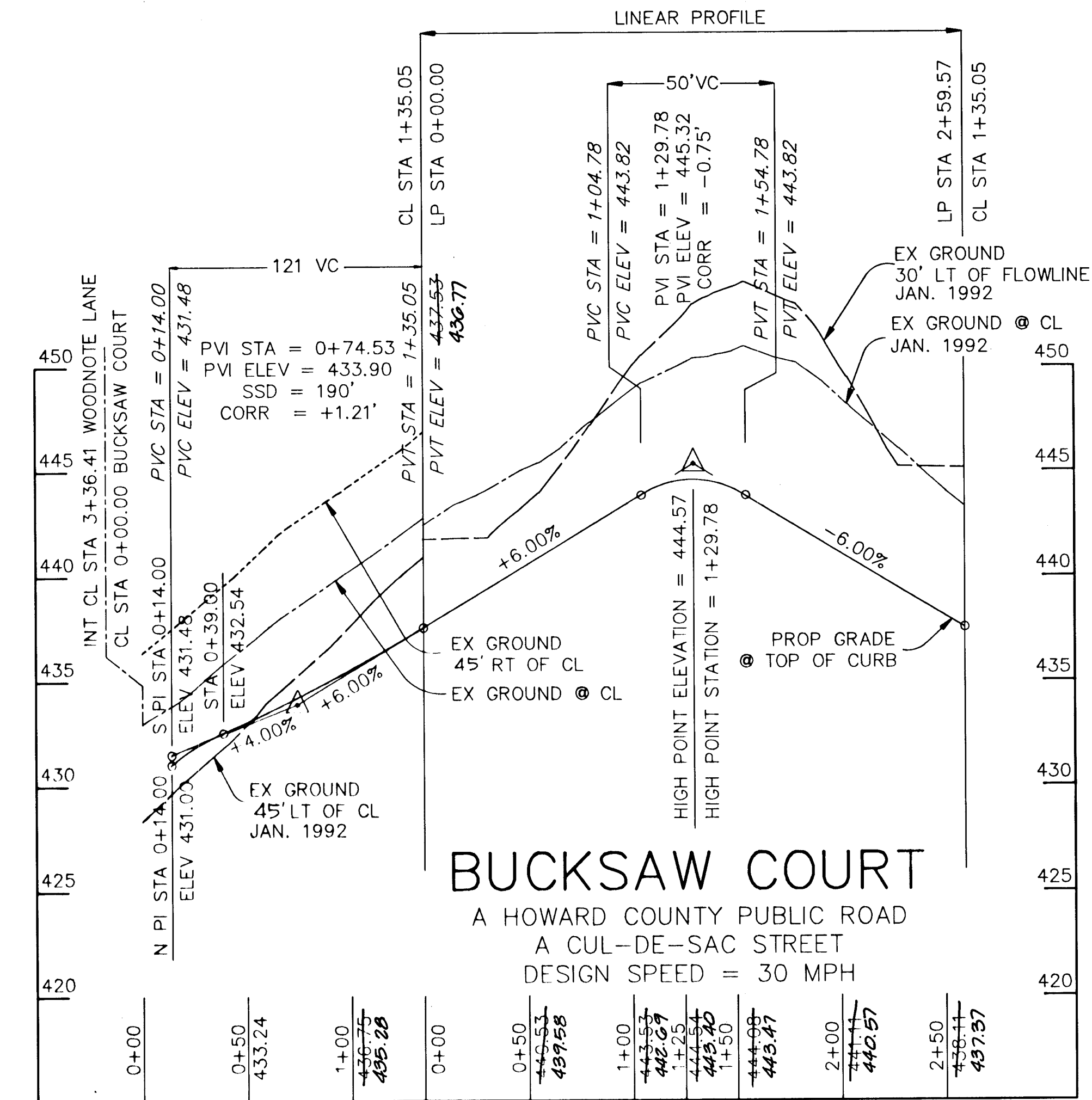
JAYKANT D. PAREKH #19148

1677

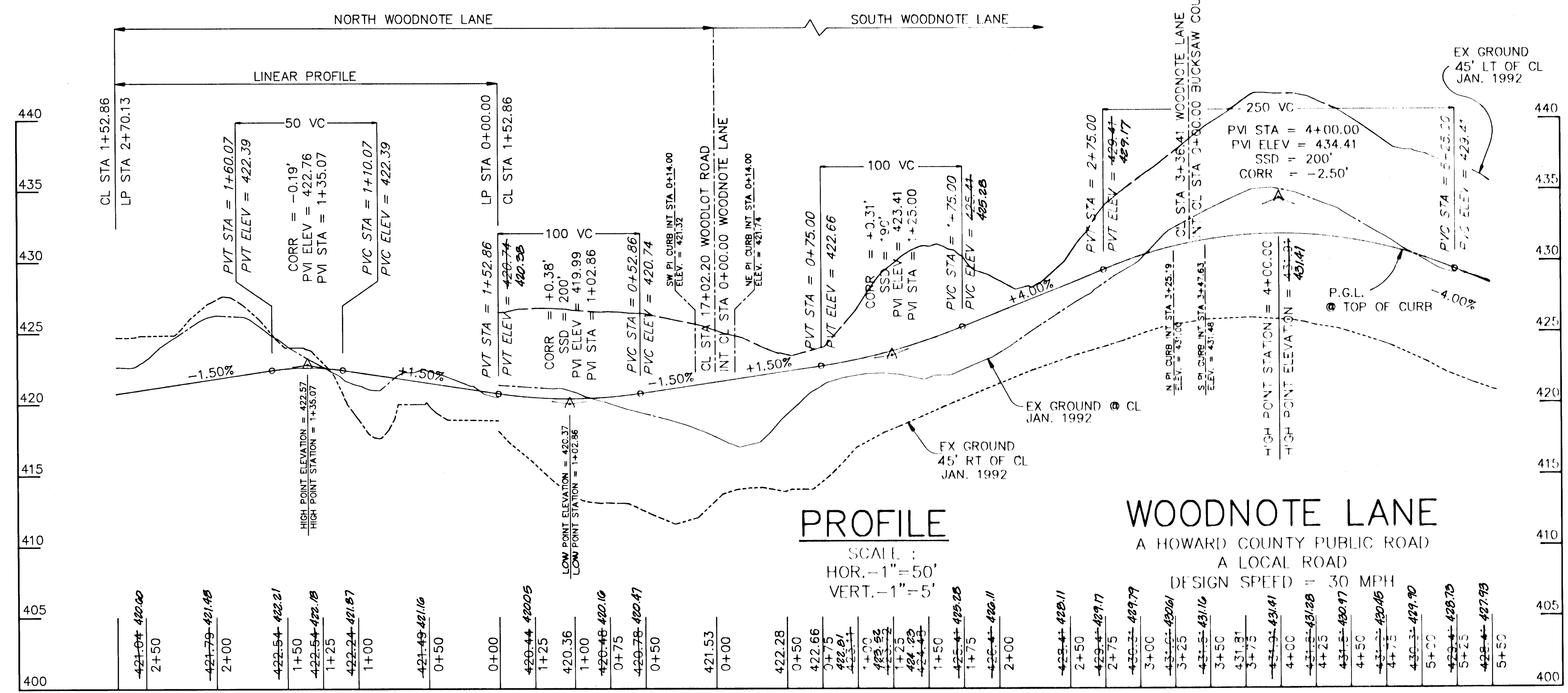


**PLAN**  
 SCALE: 1"=50'

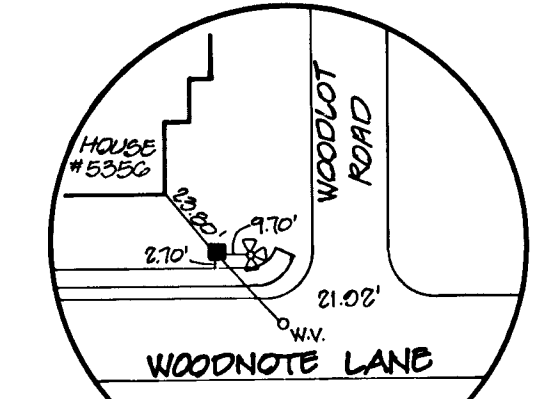
- DENOTES 9/8" PIPE OR PIN SET
- DENOTES 4" x 4" x 36" CONC. MONUMENT SET



**PROFILE**  
 SCALE: HOR. - 1"=50'  
 VERT. - 1"=5'



**PROFILE**  
 SCALE: HOR. - 1"=50'  
 VERT. - 1"=5'



AS BUILT CERTIFICATE

JAYKANT D. PAREKH #19148 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Gina Surinany* 10/25/93  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John Lee Carroll* 10/20/93  
 CHIEF, BUREAU OF HIGHWAYS DATE

*James P. Shaw* 10/20/93  
 CHIEF, BUREAU OF HIGHWAYS DATE

*Paul R. Egan* 10/21/93  
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
9/29/94	1	Remove "P" trees & Add "S" trees at Inter. of Woodlot & Woodnote. Remove Light Pole # 0228, 1766, Bucksaw. Add "Woodnote" Tree.

OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT, 515 MADISON AVENUE, 32ND FLOOR, NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC., c/o THOMAS SCRIVENER, 5026 HALL DRIVE, SUITE 204, COLUMBIA, MD. 21042

**PROJECT** WOODLOT SECTION I

**AREA** TAX MAP 29 PARCEL 365 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**TITLE** PLAN AND PROFILE OF WOODNOTE LANE & BUCKSAW COURT

**RIEMER MUEGGE & ASSOCIATES, INC.**  
 Planners • Engineers • Surveyors  
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045  
 410-997-8900 FAX: 410-997-9282

10.4.93 DATE

DESIGNED BY: JTD

DRAWN BY: JTD

PROJECT NO: 83017

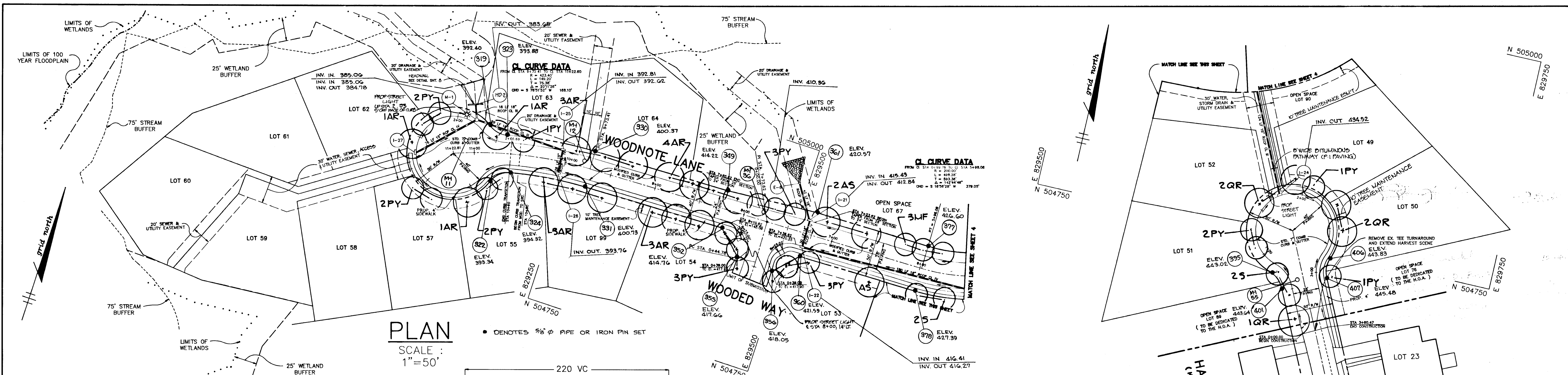
DATE: OCTOBER 4, 1993

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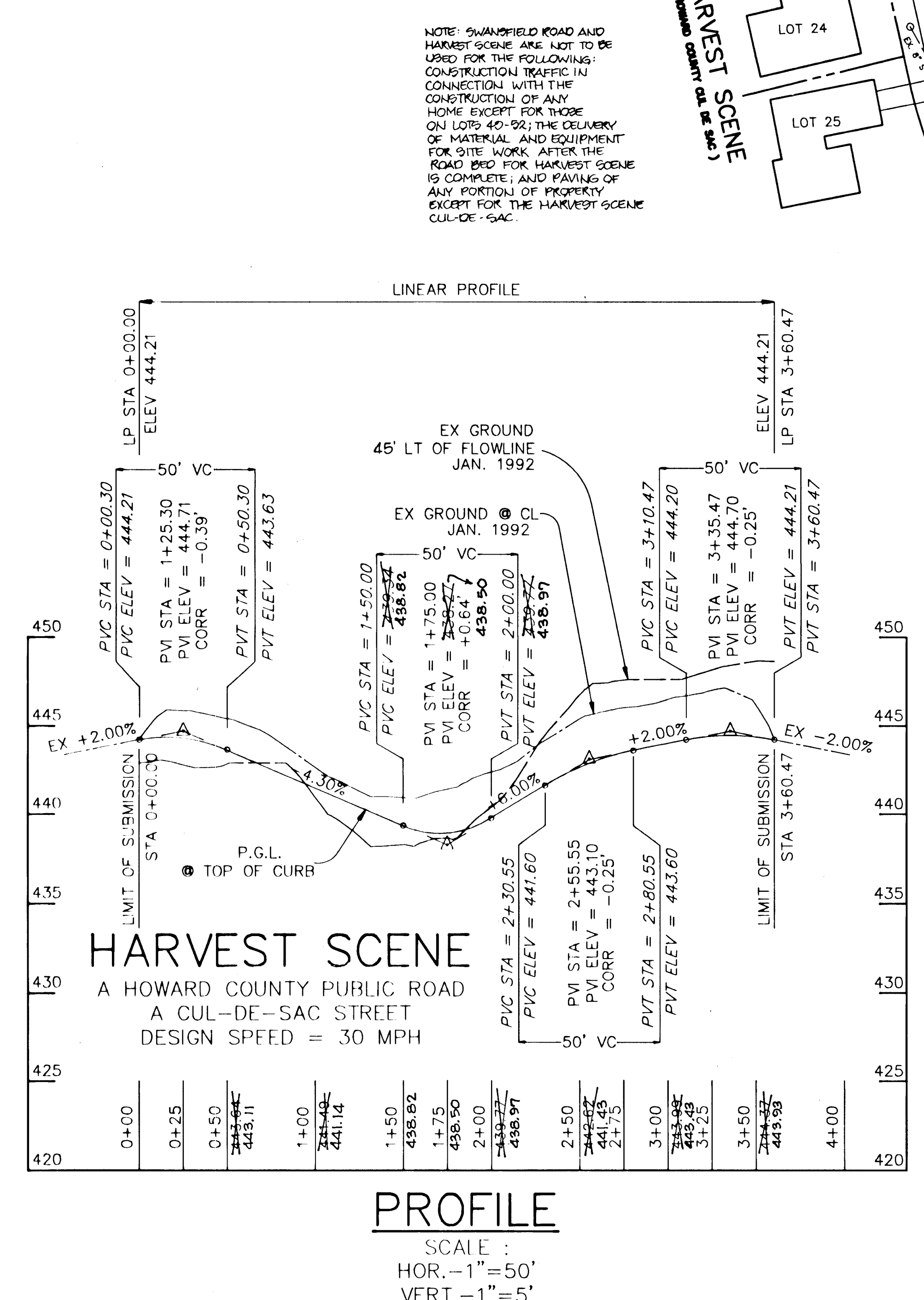
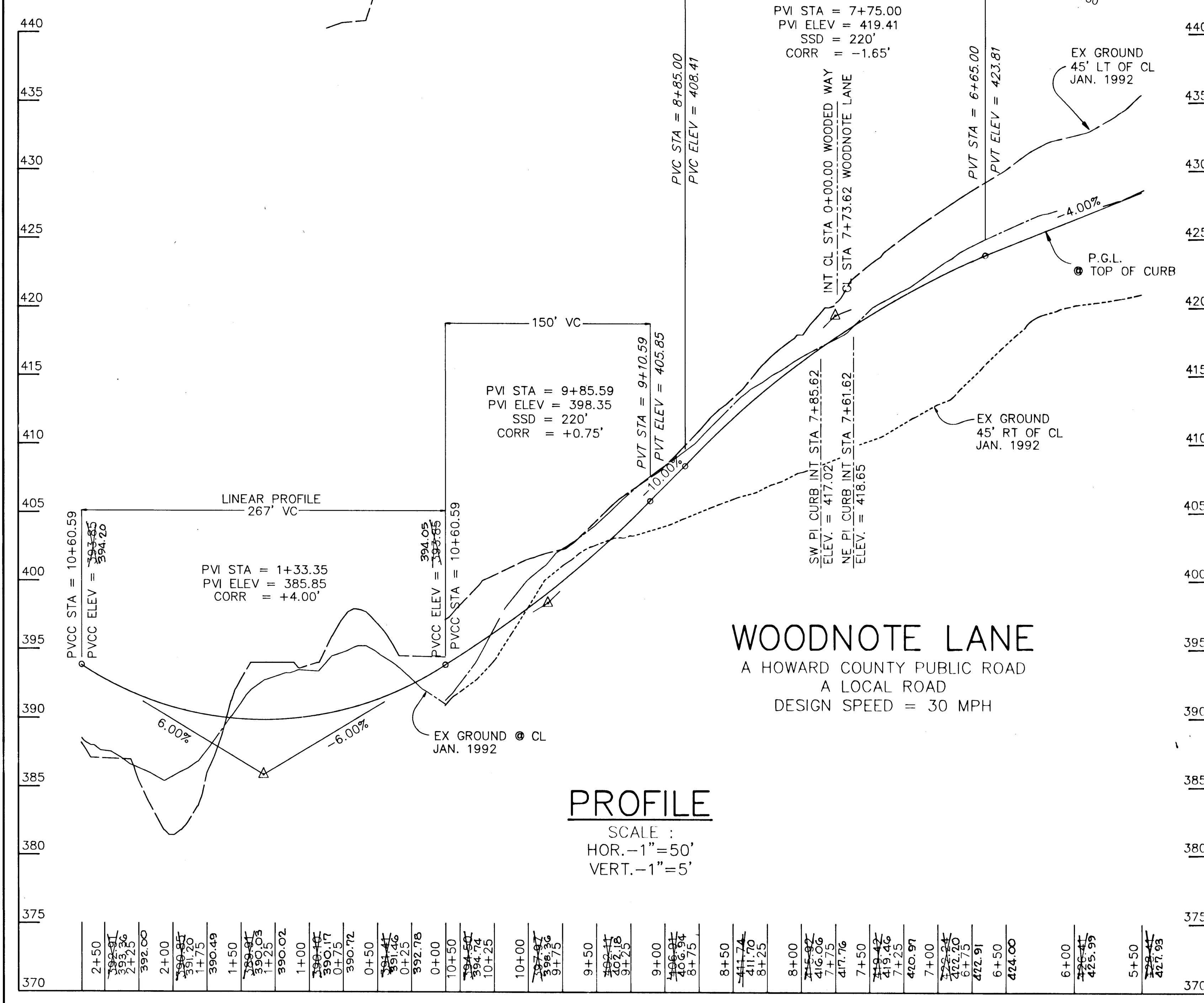
DRAWING NO. 4 OF 12

JAYKANT D. PAREKH #19148

1677



**PLAN**  
SCALE: 1"=50'



NOTE: SWANFIELD ROAD AND HARVEST SCENE ARE NOT TO BE USED FOR THE FOLLOWING: CONSTRUCTION TRAFFIC IN CONNECTION WITH THE CONSTRUCTION OF ANY HOME EXCEPT FOR THOSE ON LOTS 40-52; THE DELIVERY OF MATERIAL AND EQUIPMENT FOR SITE WORK AFTER THE ROAD BID FOR HARVEST SCENE IS COMPLETE; AND PAVING OF ANY PORTION OF PROPERTY EXCEPT FOR THE HARVEST SCENE CUL-DE-SAC.

AS BUILT CERTIFICATE

JAYKANT D. PAREKH # 19148 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Gina Drummary* 10/25/93  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John Lee Carroll* 10/20/93  
CHIEF, BUREAU OF HIGHWAYS

*James M. Law* 10/20/93  
CHIEF, BUREAU OF ENGINEERING

3/29/94 1 REMOVE LIGHT POLES # 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

OWNER / DEVELOPER: JOHN LEE CARROLL, ATTORNEY IN FACT, 515 MADISON AVENUE, 32nd FLOOR, NEW YORK, N.Y. 10022

DEVELOPER: WOODLOT ENTERPRISES, INC., C/O THOMAS SCRIVENER, 5026 DORSEY HALL DRIVE, SUITE 204, COLUMBIA, MD. 21042

PROJECT: WOODLOT SECTION I

AREA: TAX MAP 29 PARCEL 365, 5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

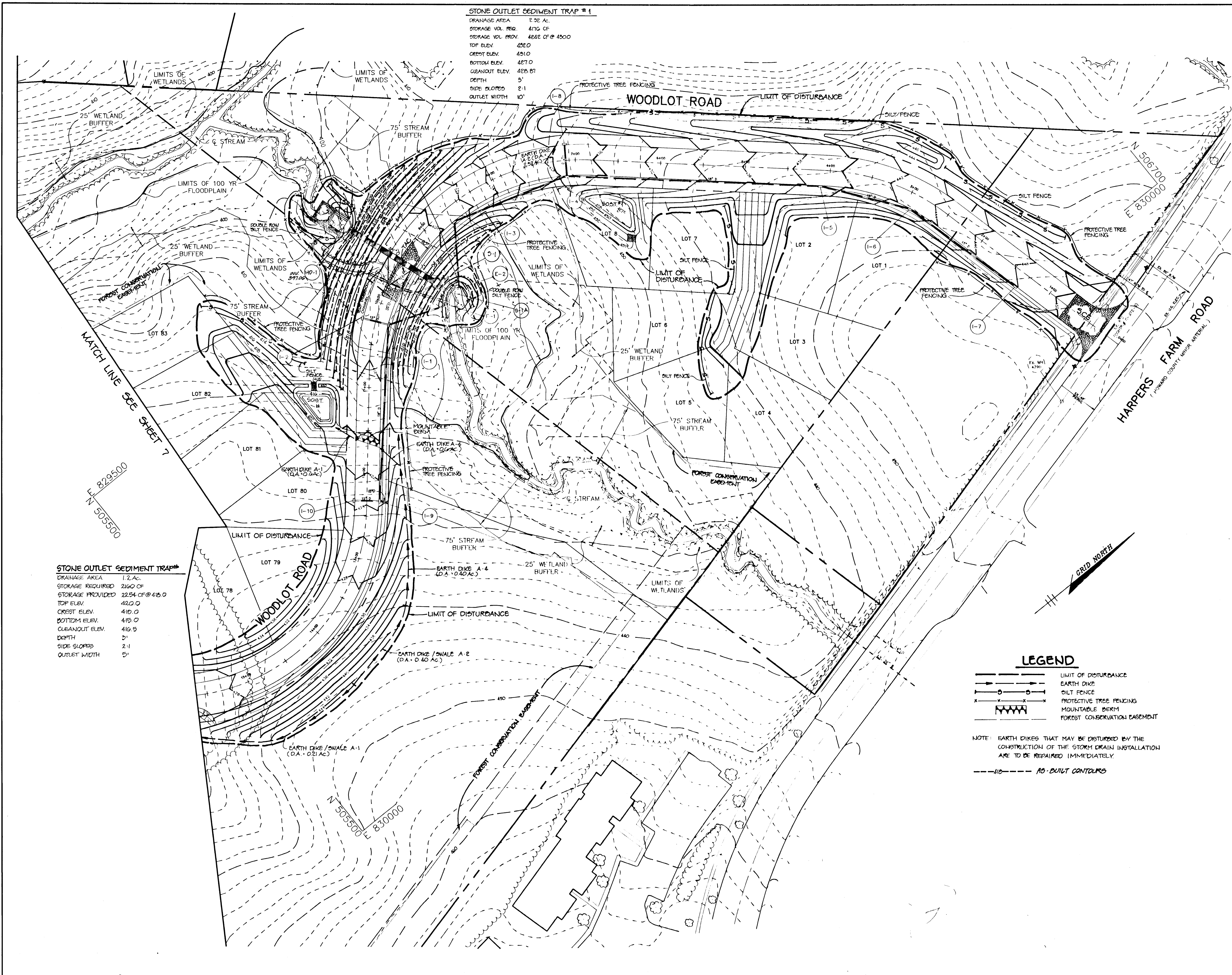
TITLE: PLAN AND PROFILE OF WOODNOTE LANE FROM STA 5+50 TO STA 10+82.59 AND HARVEST SCENE

RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors, 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045, 410-997-8900, FAX: 410-997-9282

10.4.93 DATE, J. Parekh, JAYKANT D. PAREKH # 19148

ZB: 933M SP-93-13, WP-93-66 PD: 270, DESIGNED BY: JTD, DRAWN BY: JTD, PROJECT NO: 83017, DATE: OCTOBER 4, 1993, SCALE: AS SHOWN, DRAWING NO. 5 OF 12

1677



**STONE OUTLET SEDIMENT TRAP #1**  
 DRAINAGE AREA 2.32 AC.  
 STORAGE VOL. REQ. 417G CF  
 STORAGE VOL. PROV. 4242 CF @ 4500  
 TOP ELEV. 422.0  
 CREST ELEV. 421.0  
 BOTTOM ELEV. 420.0  
 CLEANOUT ELEV. 422.87  
 DEPTH 3'  
 SIDE SLOPES 2:1  
 OUTLET WIDTH 10'

**STONE OUTLET SEDIMENT TRAP #2**  
 DRAINAGE AREA 1.2 AC.  
 STORAGE REQUIRED 2160 CF  
 STORAGE PROVIDED 2254 CF @ 415.0  
 TOP ELEV. 422.0  
 CREST ELEV. 419.0  
 BOTTOM ELEV. 419.0  
 CLEANOUT ELEV. 416.5  
 DEPTH 3'  
 SIDE SLOPES 2:1  
 OUTLET WIDTH 5'

**LEGEND**

- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- PROTECTIVE TREE FENCING
- MOUNTAIN BERM
- FOREST CONSERVATION EASEMENT

NOTE: EARTH DIKES THAT MAY BE DISTURBED BY THE CONSTRUCTION OF THE STORM DRAIN INSTALLATION ARE TO BE REPAIRED IMMEDIATELY.

--- 10' --- AS-BUILT CONTOURS

AS BUILT CERTIFICATE

---

JAYKANT D. PAREKH #19148 DATE 10.4.93

BY THE DEVELOPER :  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER DATE 10.4.93

---

BY THE ENGINEER :  
 I 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.

J. Parekh DATE 10.4.93

ENGINEER JAYKANT D. PAREKH DATE

---

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. A. Woodard DATE 10/13/93  
 U.S. SOIL CONSERVATION SERVICE

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

John P. Rhoton DATE 10/13/93  
 HOWARD SOIL CONSERVATION DISTRICT

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APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina Summary DATE 10/25/93  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

---

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Michael Lawrence DATE 10/20/93  
 CHIEF, LAND DEVELOPMENT DIVISION

James P. Lee DATE 10/24/93  
 CHIEF, BUREAU OF HIGHWAYS

Paul J. Jenson DATE 10/21/93  
 CHIEF, BUREAU OF ENGINEERING

---

3/29/94 | changed grading between S.O.S.'s.

DATE	NO.	REVISION

---

OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042

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PROJECT **WOODLOT SECTION ONE**

AREA TAX MAP 29 PARCEL 365  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **GRADING AND SEDIMENT CONTROL PLAN**

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**RIEMER MUEGGE & ASSOCIATES, INC.**  
 Planners • Engineers • Surveyors  
 8818 Centre Park Drive, Suite 200 • Columbia, Md. 21045  
 410-997-8900 FAX : 410-997-9282

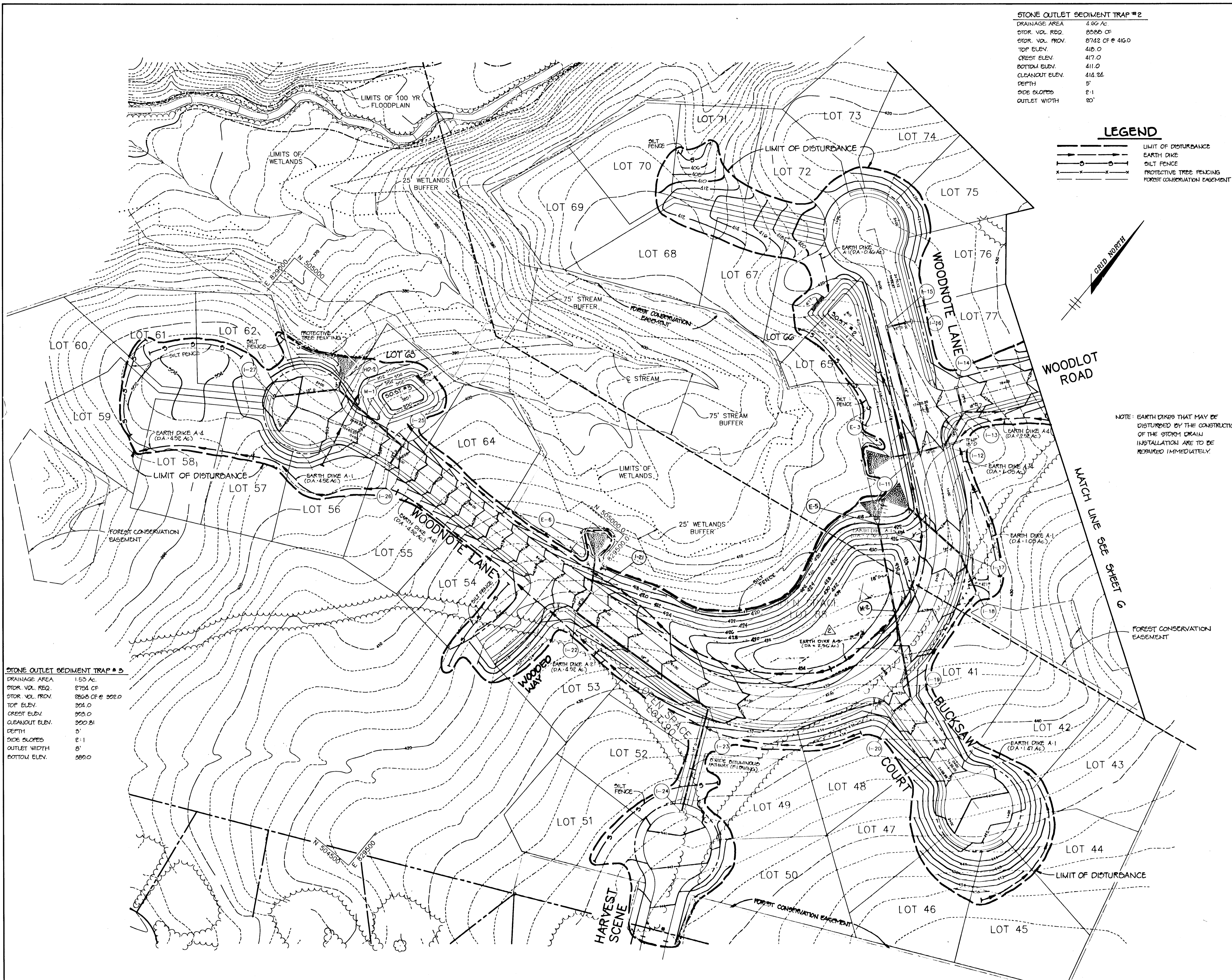
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10.4.93 DATE  
 DESIGNED BY : JTD  
 DRAWN BY: CADD  
 PROJECT NO : 83017  
 DATE : OCTOBER 4, 1993  
 SCALE : 1"=50'  
 DRAWING NO. 6 OF 12

JAYKANT D. PAREKH #19148

F-03-125 AS-BUILT 1-26-96

417

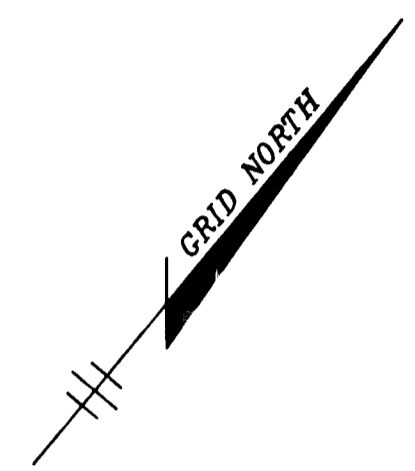


**STONE OUTLET SEDIMENT TRAP #2**

DRAINAGE AREA	4.66 AC
STOR. VOL. REQ.	8086 CF
STOR. VOL. PROV.	8742 CF @ 4% D
TOP ELEV.	418.0
CREST ELEV.	417.0
BOTTOM ELEV.	411.0
CLEANOUT ELEV.	414.24
DEPTH	5'
SIDE SLOPES	2:1
OUTLET WIDTH	20'

**LEGEND**

	LIMIT OF DISTURBANCE
	EARTH DIKE
	SILT FENCE
	PROTECTIVE TREE FENCING
	FOREST CONSERVATION EASEMENT



NOTE: EARTH DIKES THAT MAY BE DISTURBED BY THE CONSTRUCTION OF THE STORM DRAIN INSTALLATION ARE TO BE REPAIRED IMMEDIATELY.

**STONE OUTLET SEDIMENT TRAP #3**

DRAINAGE AREA	1.53 AC
STOR. VOL. REQ.	2754 CF
STOR. VOL. PROV.	2826 CF @ 2% D
TOP ELEV.	304.0
CREST ELEV.	303.0
CLEANOUT ELEV.	300.81
DEPTH	5'
SIDE SLOPES	2:1
OUTLET WIDTH	5'
BOTTOM ELEV.	309.0

AS BUILT CERTIFICATE

JAYKANT D. PAREKH #19148 DATE \_\_\_\_\_

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER *J. Parekh* 10/4/93 DATE

BY THE ENGINEER :

I 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.

ENGINEER *J. Farrell* 10/4/93 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*J.A. Washburn* 10/13/93 DATE  
U.S. SOIL CONSERVATION SERVICE

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

*Wm. R. Plinston* 10/13/93 DATE  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Gina Summary* 10/25/93 DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John P. Sullivan* 10/20/93 DATE  
CHIEF, BUREAU OF HIGHWAYS

*Paul J. Sapon* 10/21/93 DATE  
CHIEF, BUREAU OF MINING

2/23/95 Add SPILL AREA IN LOT 28 @ "T" INTERSECTION OF WOODNOTE LANE & BUCKSHAW COURT  
3/29/94 1 in Buckshaw Ct. Change Prop. Center MARK From 438 To 442

DATE	NO.	REVISION
OWNER / DEVELOPER	DEVELOPER	
JOHN LEE CARROLL, ATTORNEY IN FACT, 515 MADISON AVENUE, 32nd FLOOR, NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC., c/o THOMAS SCRIVENER, 5026 DORSEY HALL DRIVE, SUITE 204, COLUMBIA, MD. 21042	

PROJECT **WOODLOT SECTION ONE**

AREA TAX MAP 29 PARCEL 365  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **GRADING AND SEDIMENT CONTROL PLAN**

**RIEMER MUEGGE & ASSOCIATES, INC.**  
Planners • Engineers • Surveyors  
8818 Centre Park Drive • Suite 200 • Columbia, Md. 21045  
410-997-8900 FAX : 410-997-9282

10.4.93 DATE  
DESIGNED BY : JTD  
DRAWN BY : CADD  
PROJECT NO : 83017  
DATE : OCTOBER 4, 1993  
SCALE : 1"=50'  
DRAWING NO. 7 OF 12

JAYKANT D. PAREKH #19148

1677

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOO

Definition: Stabilizing sediment producing areas by establishing long-term stands of grass with seed, enhance natural beauty.

Purpose: To stabilize the soil, reduce damage from sediment and runoff to downstream areas, enhance natural beauty.

Conditions Where Practice Applies: On exposed sites where a high vegetative cover is desired, on sites which can be maintained with ground equipment (2:1 or flatter slopes).

Specifications: 1. Close of turf grass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.

2. Sod shall be machine cut to a uniform soil thickness of 3/4 inch, plus or minus 1/8 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.

3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grip on the upper 10 percent of the section.

4. Individual pieces of sod shall be cut to the applicator width and length. Maximum allowable deviation from standard width and lengths shall be 5 percent. Broken pieces of sod or uneven ends will not be acceptable.

5. Sod shall not be harvested or transported when moisture content (excessively dry or wet) may adversely affect its survival.

6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transported within this period shall be inspected and approved prior to its installation.

1. Site Preparation: Fertilizer and lime application rates shall be determined by soil tests provided by the contractor. Under unusual circumstances where there is insufficient soil test, a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

A. Prior to adding, the surface shall be cleared of all trash, debris, and all rocks, brush, wire, grove stumps and other objects that would interfere with planting, fertilizing or maintenance operations.

B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all other 1,000 square foot areas, ground limestone shall be uniformly applied and mixed into the top 3 inches of soil to the required level.

C. All areas receiving sod shall be uniformly graded. Hard-pooled areas shall be scarified prior to placement of sod.

II. Sod Installation: A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.

B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and slightly wedged against each other. Later joints shall be staggered to provide more uniform strength.

C. On slopes where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved methods.

D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. The operations of rolling, tamping and watering for any piece of sod shall be completed within eight hours.

III. Sod Maintenance: A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done during the heat of the day to prevent wilting.

B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment, and as directed by the owner.

C. First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

D. Maintenance of established sod should follow specifications outlined in table.

Annual Maintenance Fertilization for Permanent Sod Use Soil Test Recommendations or Rates Shown Below

Readily Available Nitrogen

Table with columns: Seeding Mixture, Formulation, Lbs/Ac/Yr, Lbs./1,000 S.F., Time, Mowing

Equivalent amounts of fertilizer may be applied with other formulations.

MULCHING

Materials and Amounts:

- 1. Straw - Straw shall be unrotted small grain applied at the rate of 1 1/2 to 2 tons per acre (900 to 1200 lbs/1000 SF). All materials shall be relatively free of all kinds of weeds and shall be free of unfertilized noxious weeds such as: thistles, Johnsongrass and quackgrass.

- 2. Asphalt emulsion or cutback asphalt of 800 to 1200 GALS per acre (15 to 30 GALS/1000 SF). This is suitable for a limited period of time where there may be people, animals or machines in not a problem.

- 3. Synthetic soil stabilizers may be used according to manufacturer's recommendations, under suitable conditions.

- 4. Mulch matings such as lime or excelsior blanket shall be applied to the surface in wetlands and on steep slopes. Light weight matings of paper, plastic and cotton mulch matings may be used where erosion hazard is not severe. If area is to be mowed, do not use metal staples.

- 5. Wood chips of the size of approximately 8 tones per acre (275 LBS/1000 SF) may be used when available and when feasible to use.

- 6. Crushed rock, stone, gravel or stone blankets. Apply at rate of 20 to 100 tons per acre (900 to 4500 LBS/1000 SF) with coarsest material applied at the highest rate.

Mulch Anchoring: Mulch anchoring shall be accomplished immediately after mulch placement to hold the mulch in place and prevent it from blowing away.

- 1. Mulch Anchoring Tool and Tracking: A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface two (2) inches deep. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely - primarily used on flatter than 3:1 cut and fill slopes to cut the mulch into the soil. "Tracking" is used primarily on slopes steeper than 3:1 cut and fill slopes to cut the mulch into the soil with directed tracks.

- 2. Mulch Nettings: Stakes lightweight biodegradable paper, plastic or cotton netting over the mulch according to manufacturer's recommendations.

- 3. Liquid Mulch Binders: Applications of liquid binder should be made at the rate of 100 to 200 gallons per acre (5 to 10 GALS/1000 SF) on flat areas and on slopes less than 8 feet high. On slopes 8 feet or more high, apply at the rate of 248 gallons per acre (8 GALS/1000 SF).

- 4. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 5. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

All applicators designate one from the Asphalt Institute Specifications.

- 6. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 7. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 8. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 9. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 10. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 11. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 12. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 13. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 14. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 15. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 16. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 17. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 18. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 19. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 20. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 21. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

- 22. Wood Cellulose Fiber Binder: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

- 23. Peg and Tines: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

- 24. Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, or PEG. Pellet or Terra Tac may be used at rates recommended by the manufacturer to anchor mulch material.

CONSTRUCTION SPECIFICATIONS

1. ALL DRES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.

2. ALL DRES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.

3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRACTS.

4. FILL LOCATION SHALL BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE SLOPE.

5. EARTH DRES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF OBSTRUCTION. MINIMUM SHALL BE PROVIDED TO A STABILIZED TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR STORM DRAIN WITH EITHER THE ONE CHANNEL OR TWO CHANNEL AREA ABOVE THE DRAIN AND NOT ACCIDENTALLY STABILIZED.

6. STABILIZATION SHALL BE: (a) IN ACCORDANCE WITH STABILIZED OPERATIONS FOR 15:1 AND STRAW MULCH OR STRAW MULCH NOT IN SETTING SLOPES, (b) FLOW CHANNEL AS PER FIG. 1.

7. MULCH ANCHORING TOOL AND TRACKING: A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface two (2) inches deep. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely - primarily used on flatter than 3:1 cut and fill slopes to cut the mulch into the soil. "Tracking" is used primarily on slopes steeper than 3:1 cut and fill slopes to cut the mulch into the soil with directed tracks.

8. MULCH NETTINGS: Stakes lightweight biodegradable paper, plastic or cotton netting over the mulch according to manufacturer's recommendations.

9. LIQUID MULCH BINDERS: Applications of liquid binder should be made at the rate of 100 to 200 gallons per acre (5 to 10 GALS/1000 SF) on flat areas and on slopes less than 8 feet high. On slopes 8 feet or more high, apply at the rate of 248 gallons per acre (8 GALS/1000 SF).

10. WOOD CELLULOSE FIBER BINDER: The fiber binder shall be applied at a net dry weight of 750 LBS per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 LBS of wood cellulose fiber per 100 gallons.

11. PEG AND TINERS: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by attaching tines between pegs in a cross-curve within a square pattern. Secure tines around each peg with two or more round turns.

12. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGI-TAC), DCA-70, OR PEG. PELLET OR TERRA TAC MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIAL.

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CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOMEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE NAILS AND STAPLES.

2. FILL THE SECTIONS OF FENCE WITH FILL TO THE TOP OF THE FENCE WITH 1/2" SPACING.

3. PLACE THE SECTIONS OF FENCE CLOSE AGAINST EACH OTHER. THEY SHALL BE OVERLAPPED BY 3" (MIN. 0") AND JOINTED.

4. MAINTENANCE SHALL BE KEPT AS NEEDED AND MATERIAL REMOVED WHEN "TRUCKS" TRAVEL IN THE SECTIONS.

5. STABILIZATION SHALL BE: (a) IN ACCORDANCE WITH STABILIZED OPERATIONS FOR 15:1 AND STRAW MULCH OR STRAW MULCH NOT IN SETTING SLOPES, (b) FLOW CHANNEL AS PER FIG. 1.

6. MULCH ANCHORING TOOL AND TRACKING: A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the surface two (2) inches deep. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely - primarily used on flatter than 3:1 cut and fill slopes to cut the mulch into the soil. "Tracking" is used primarily on slopes steeper than 3:1 cut and fill slopes to cut the mulch into the soil with directed tracks.

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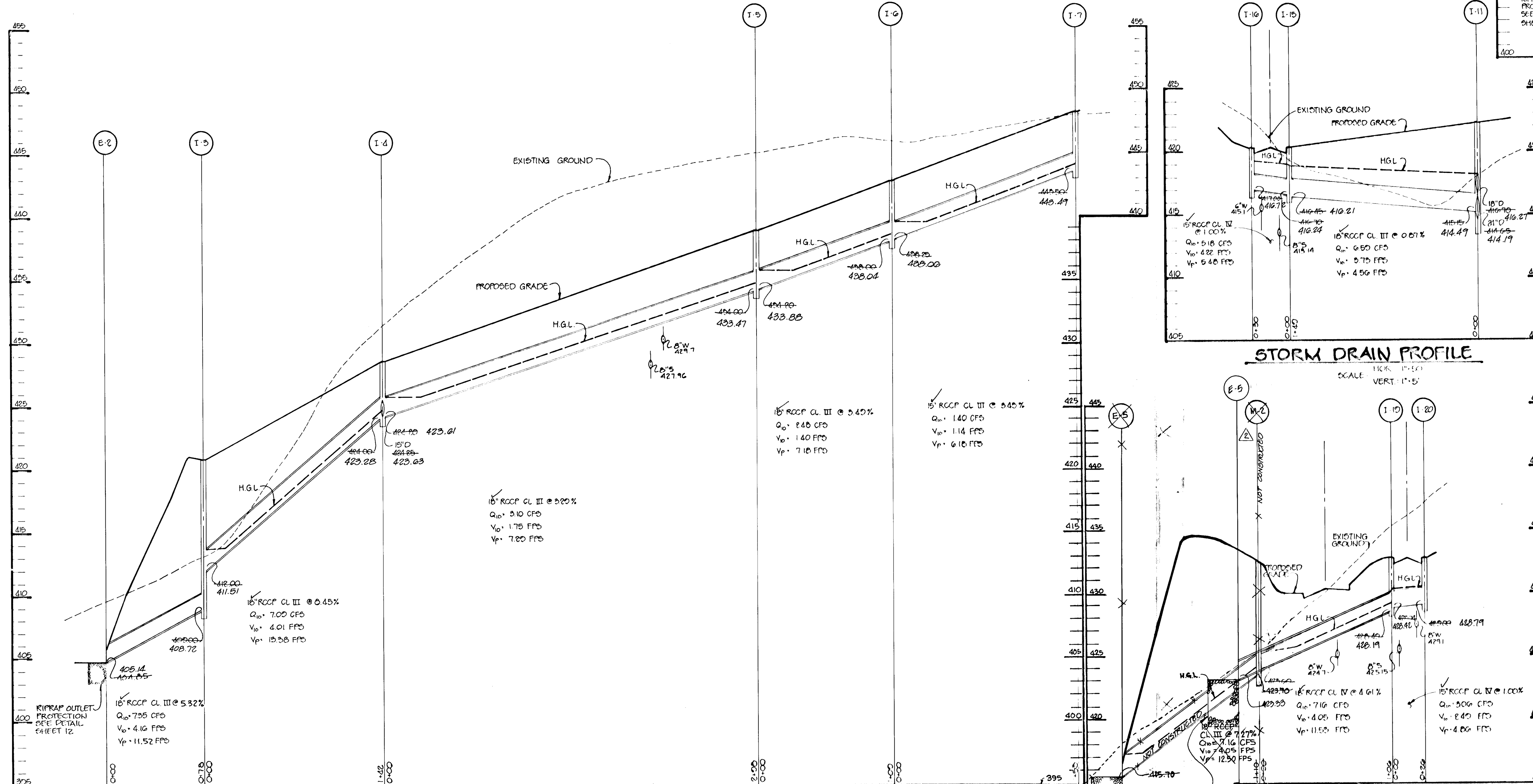
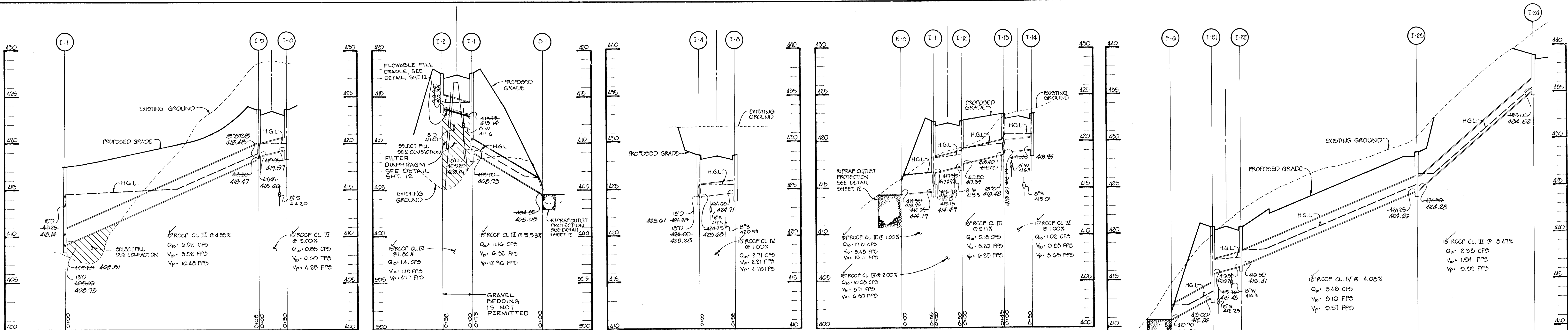
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EARTH DIKE

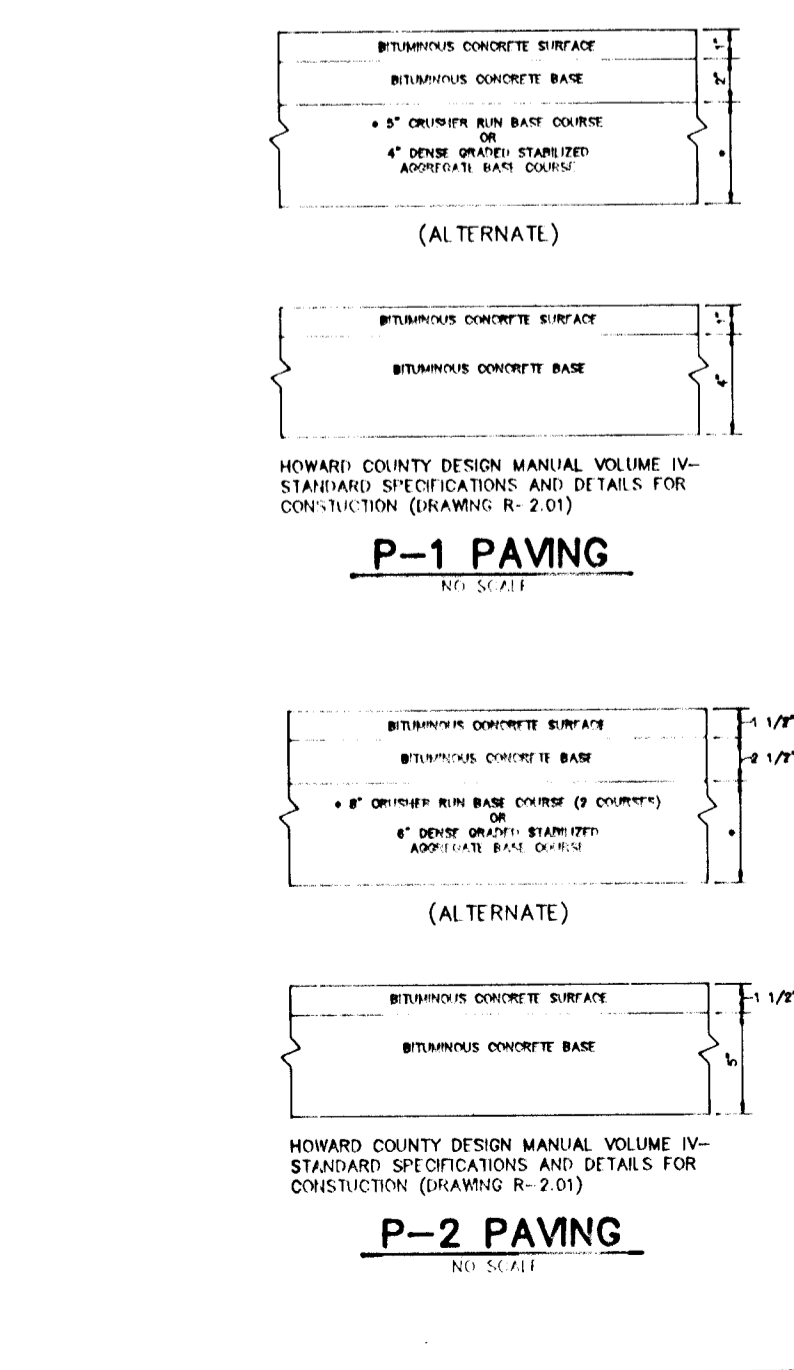
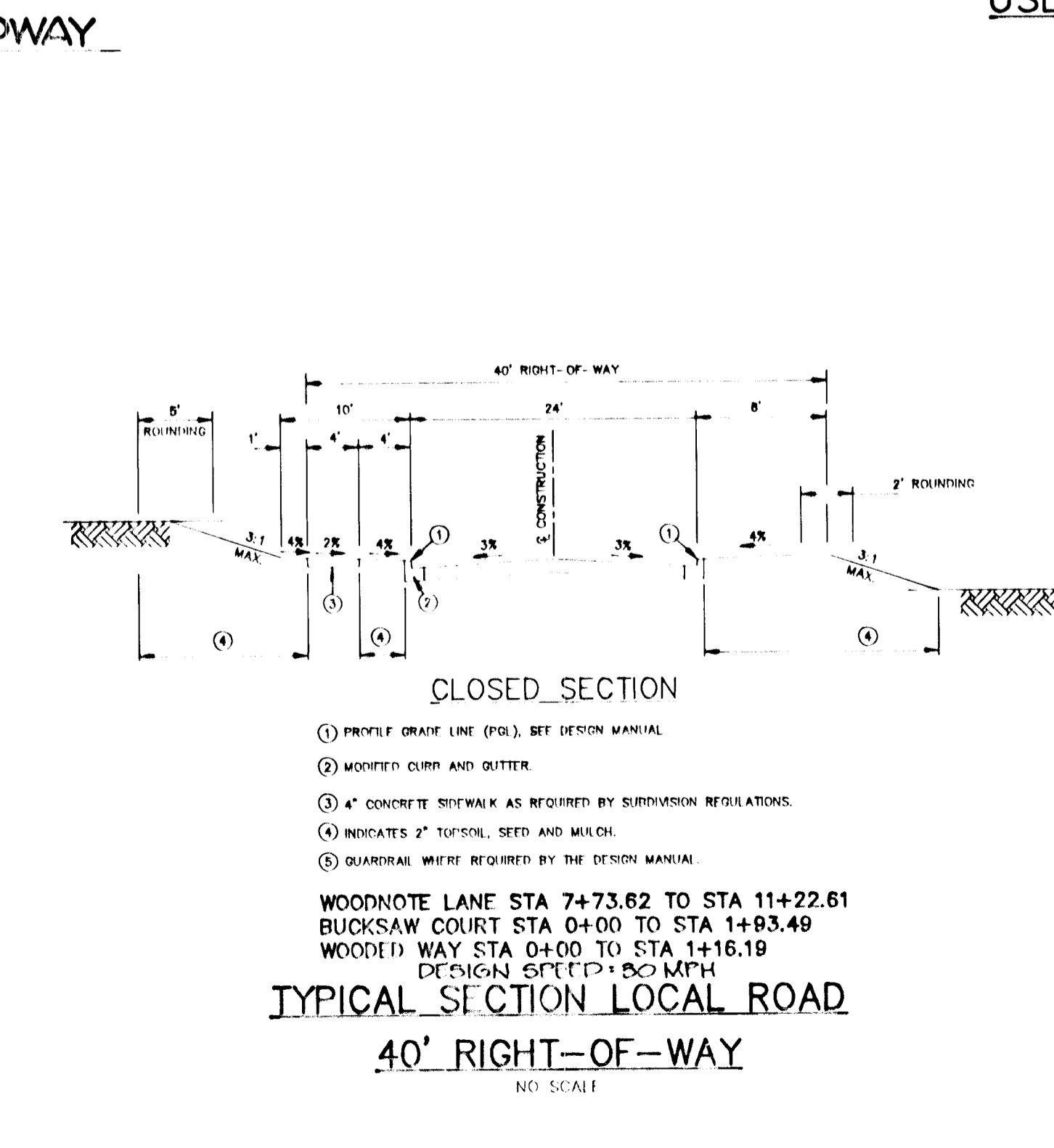
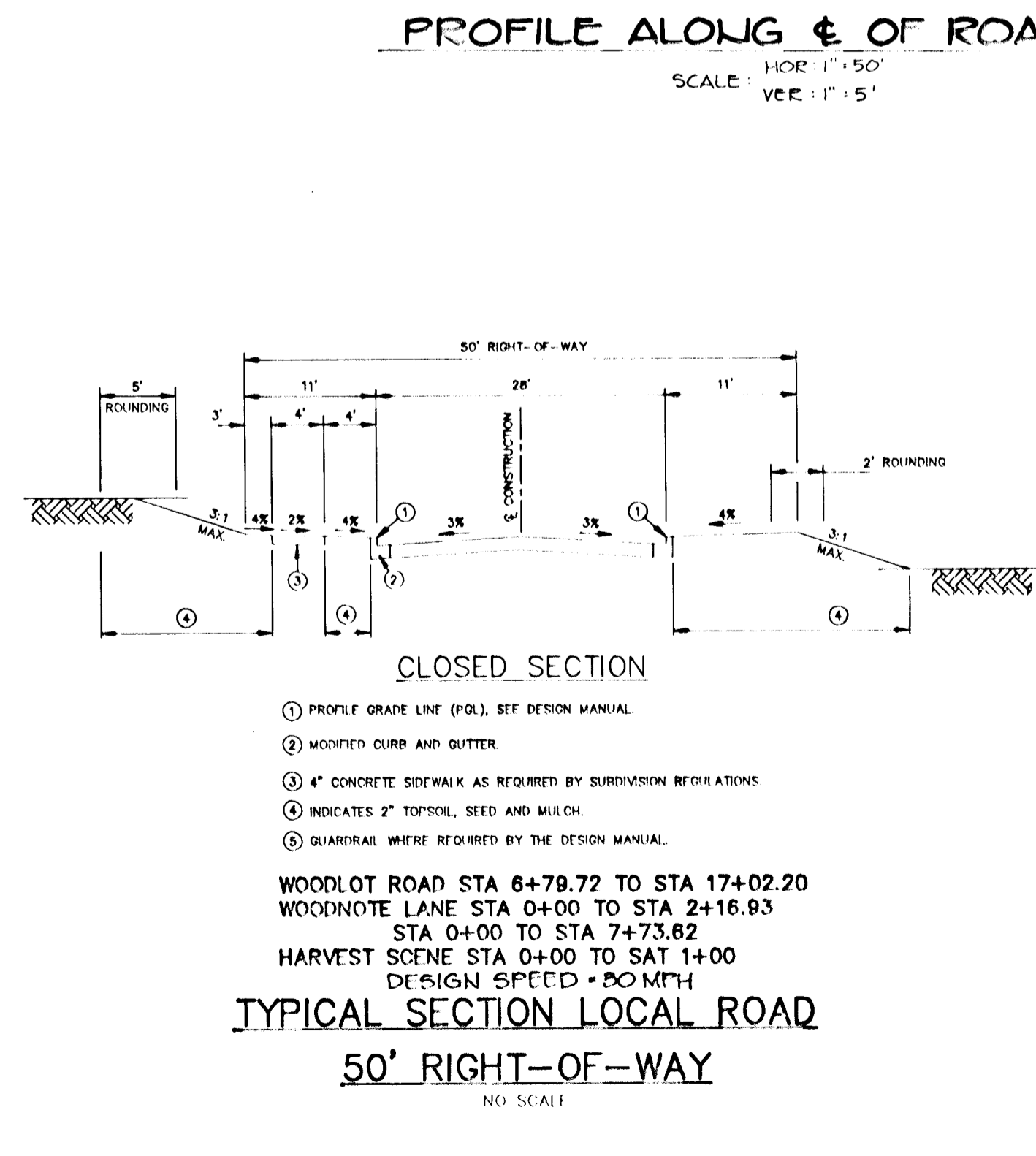
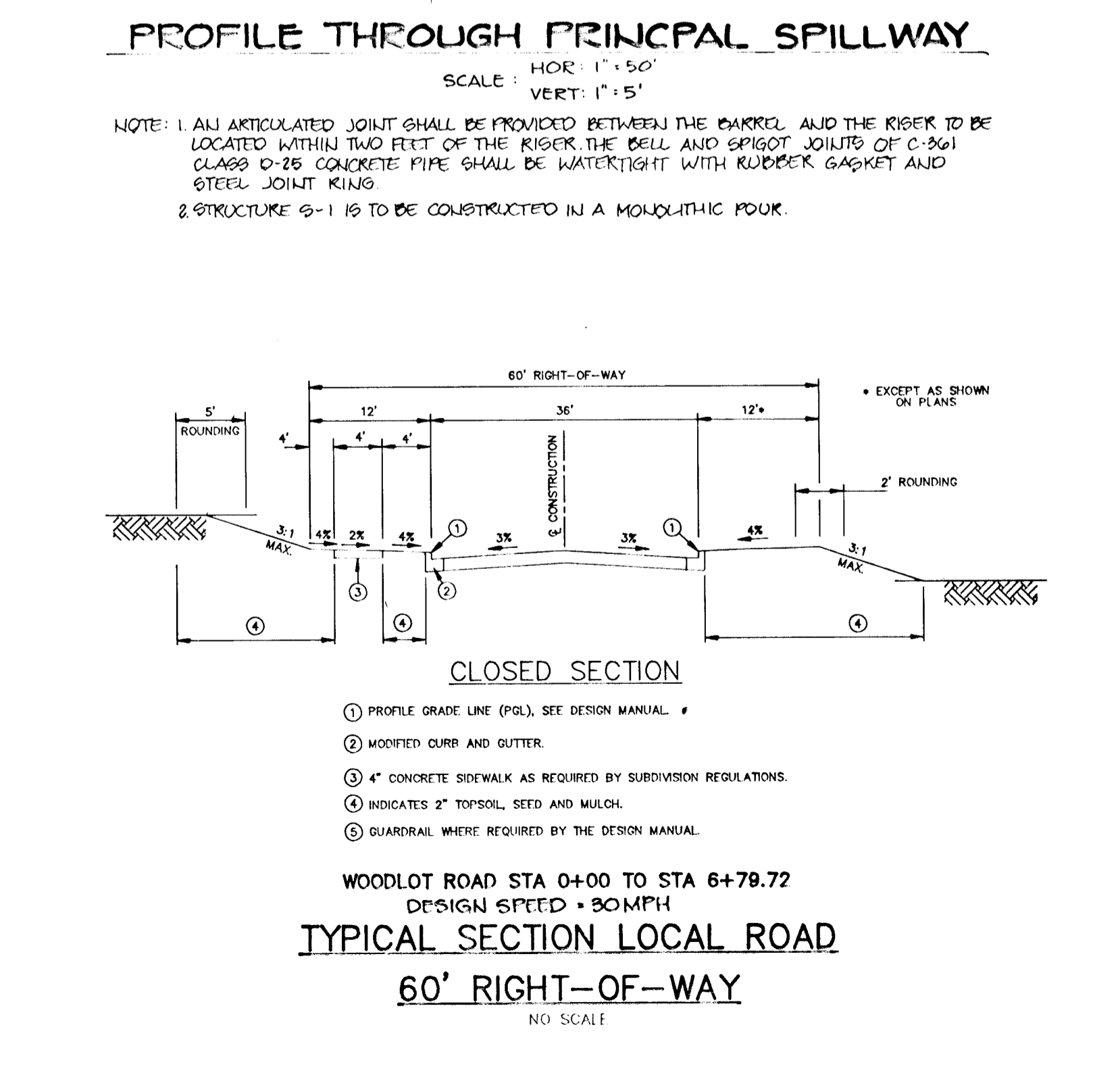
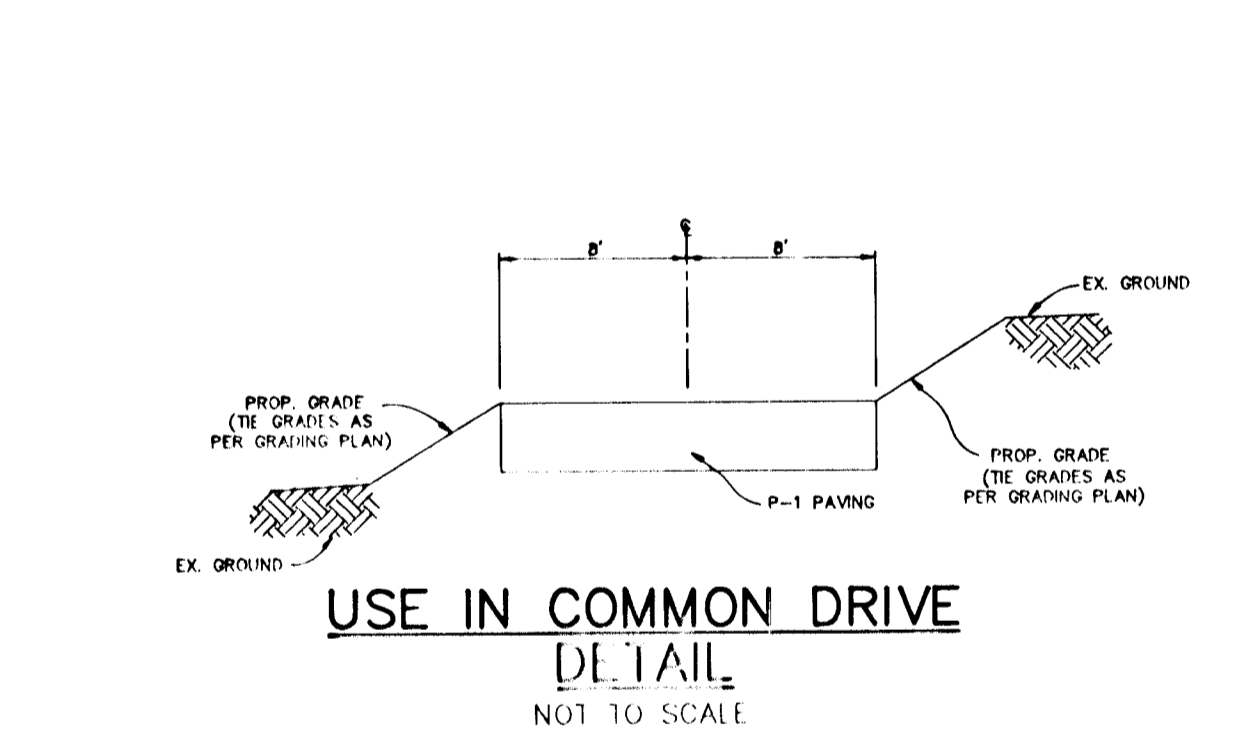
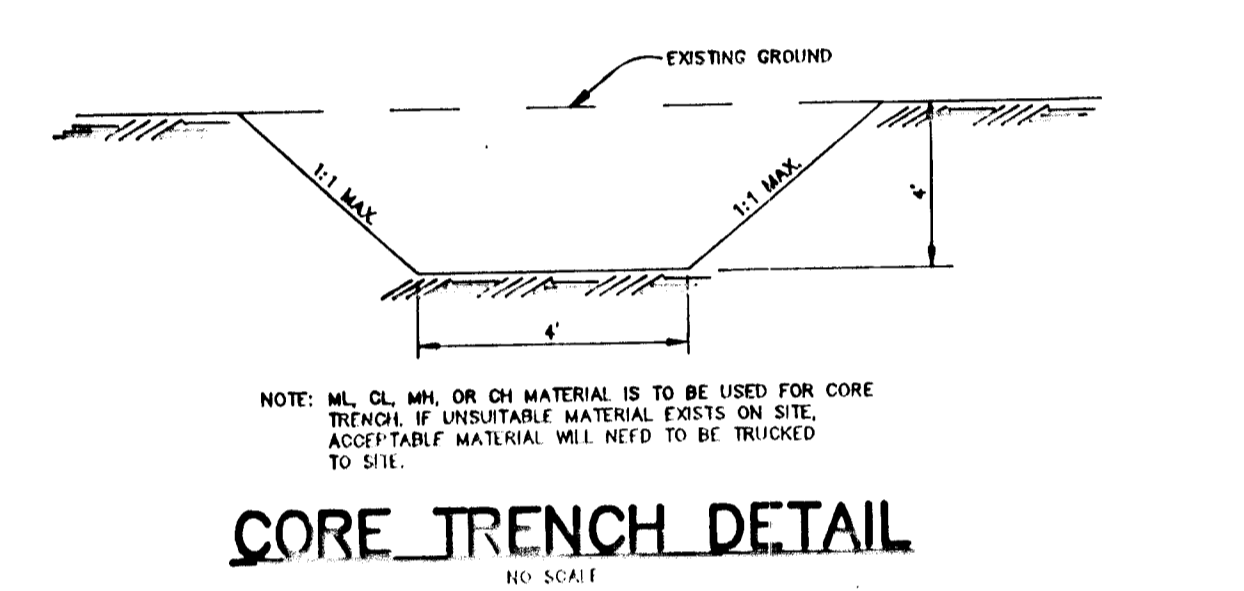
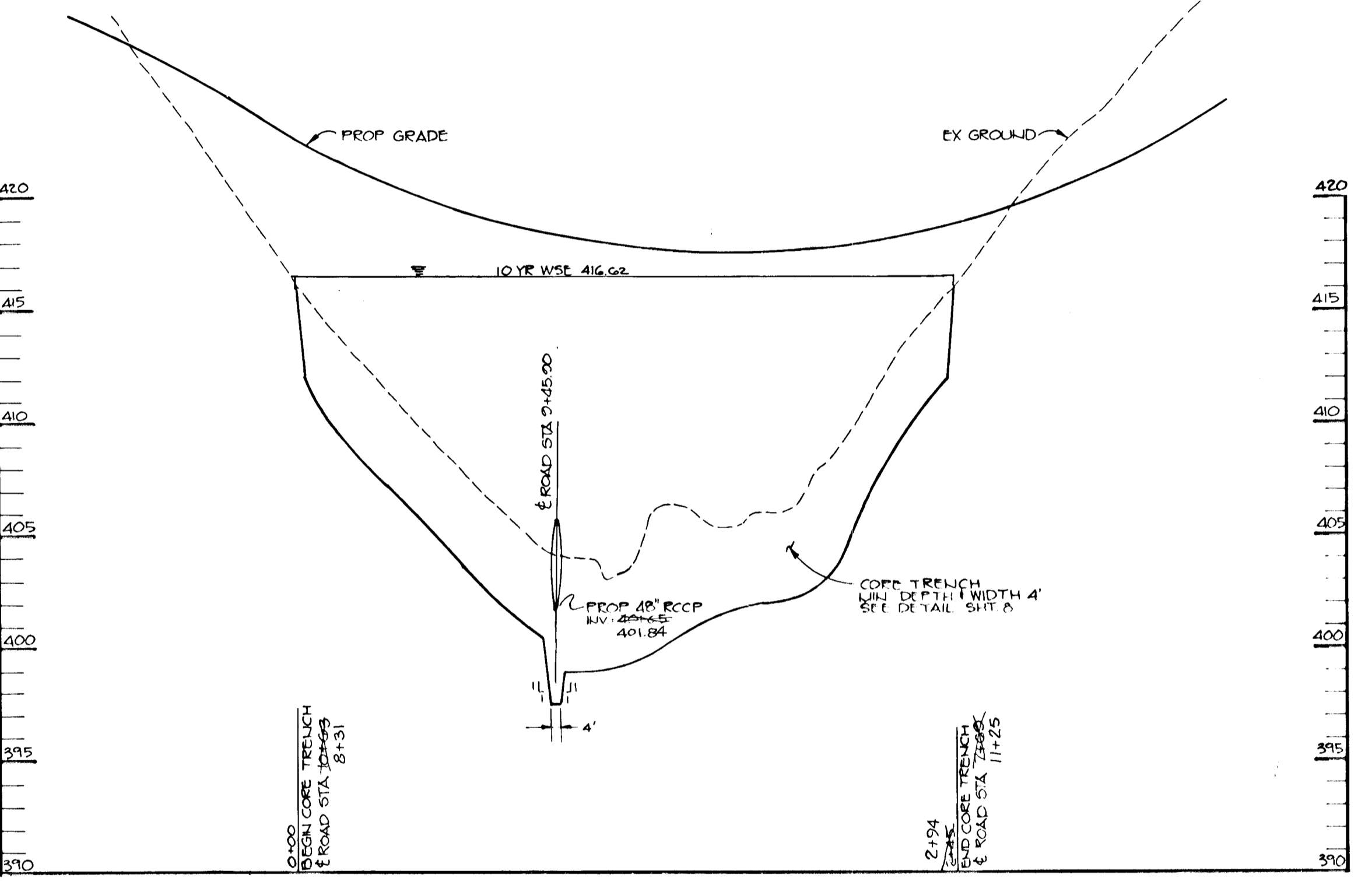
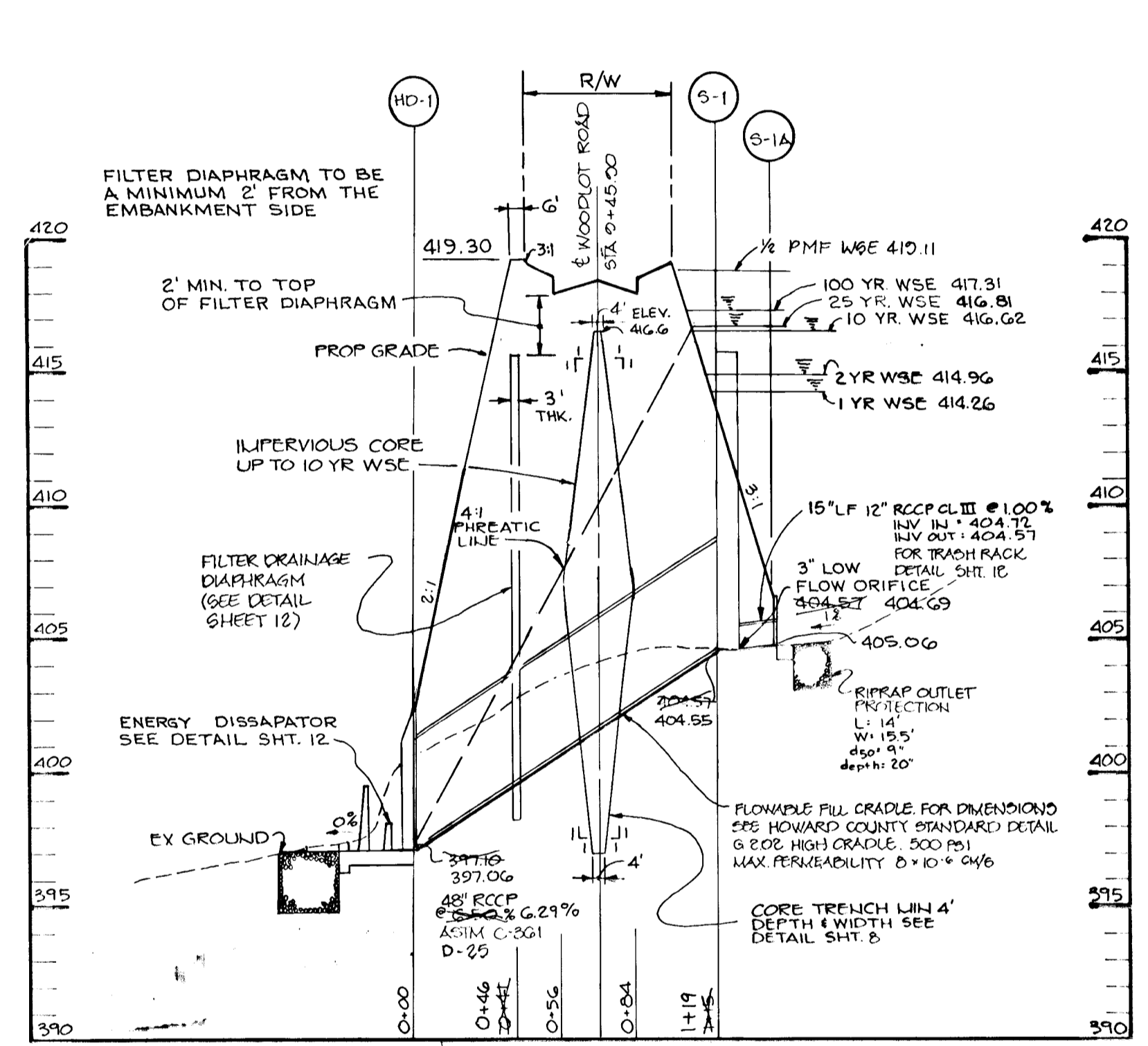
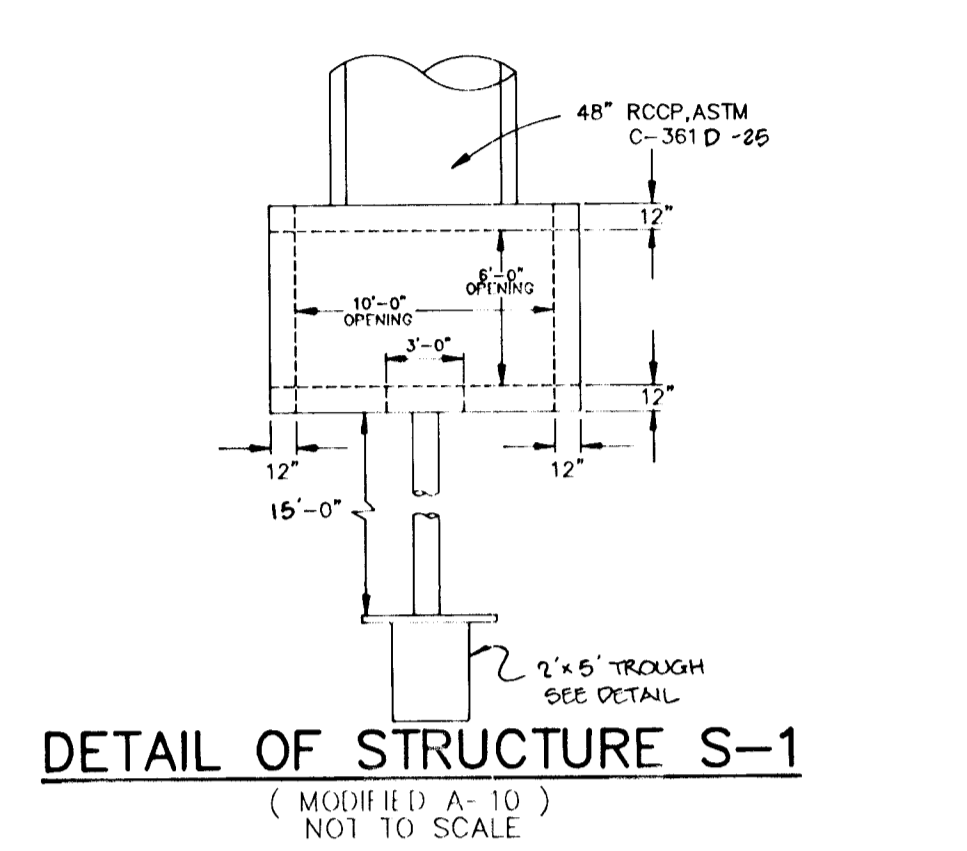
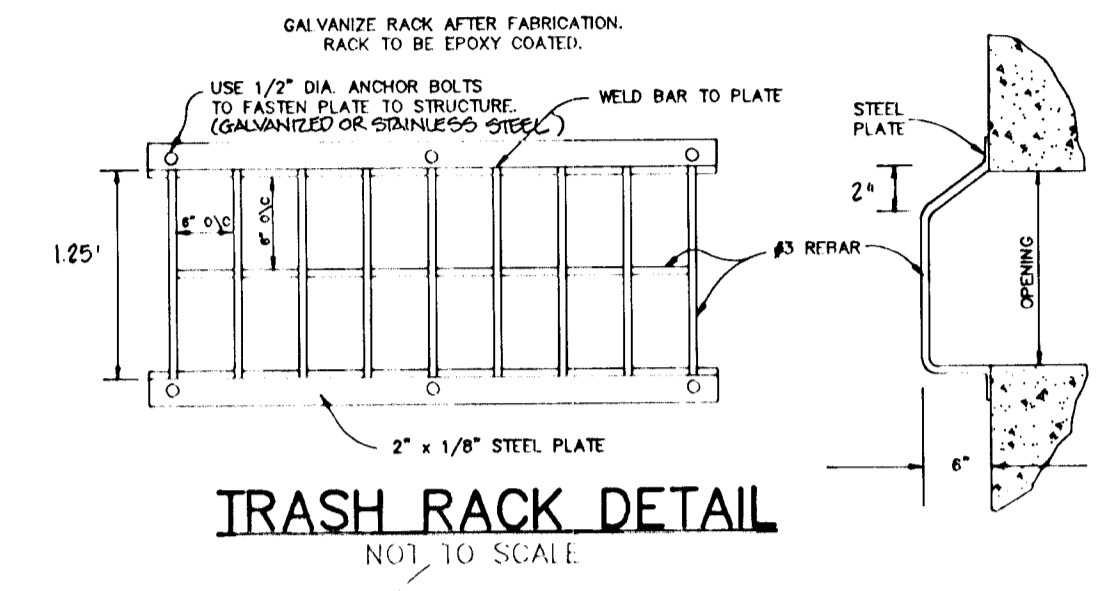
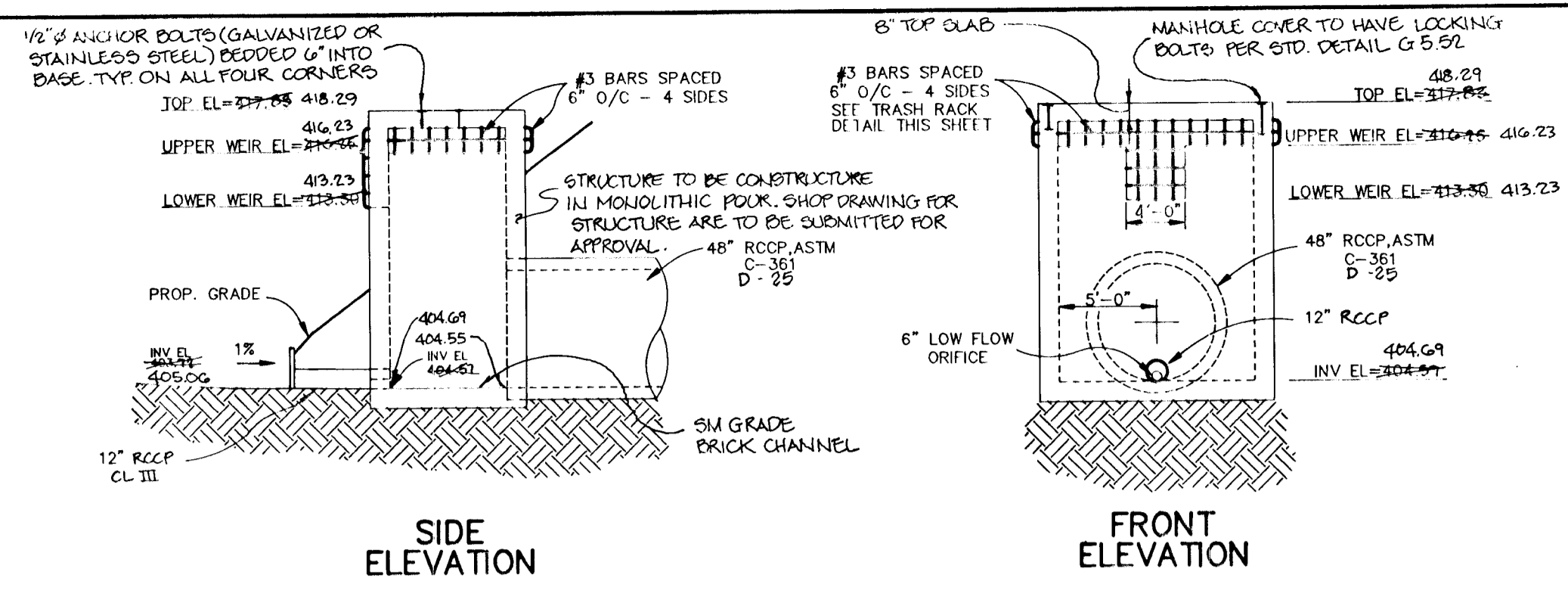
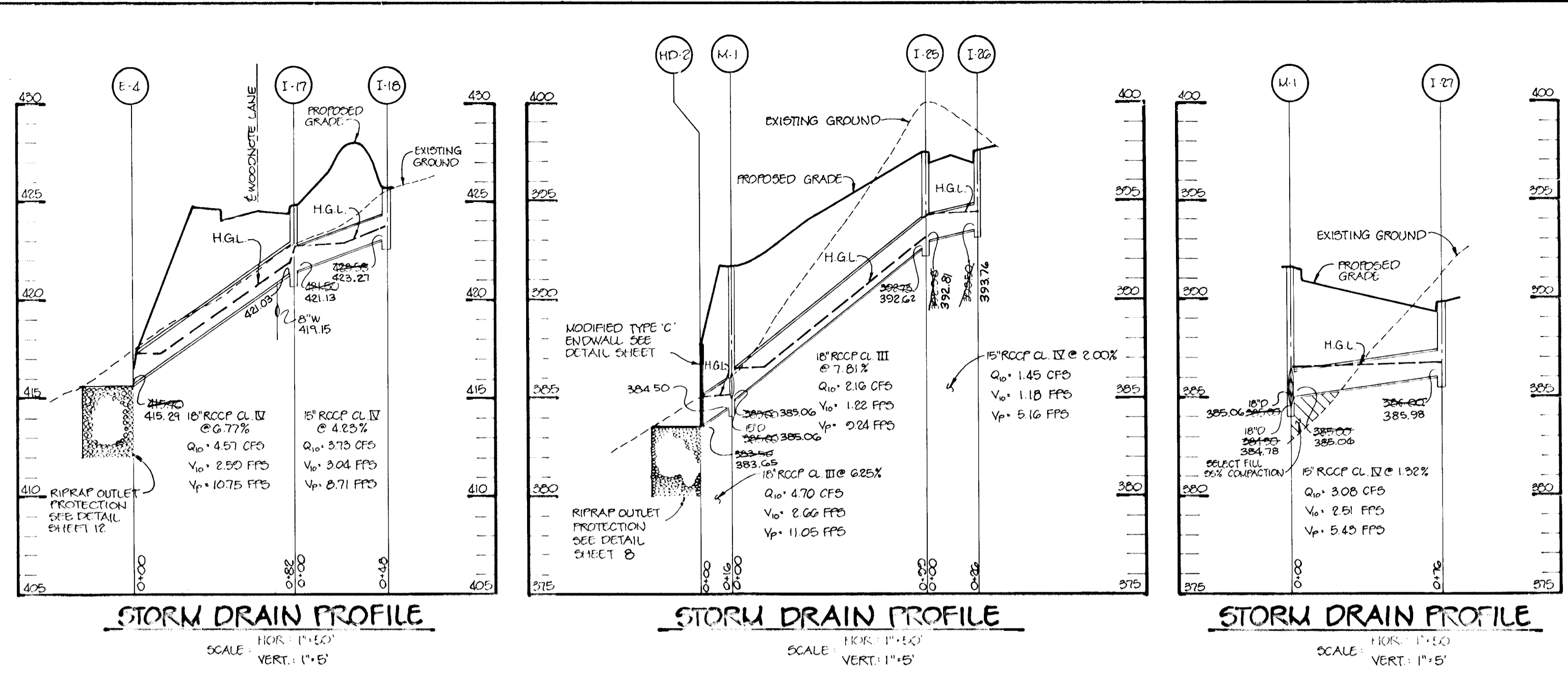
1. EARTH DIKE SHALL BE CONSTRUCTED TO THE TOP OF THE FENCE WITH 1/2" SPACING.





AS BUILT CERTIFICATE	
JAYKANT D. PAREKH #19148	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Gino Jurnmany</i>	10/25/93
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Chad Dammann</i>	10/20/93
CHIEF, LAND DEVELOPMENT DIVISION	
<i>James M. Linn</i>	10/20/93
CHIEF, BUREAU OF HIGHWAYS	
<i>Paul J. Egan</i>	10/21/93
CHIEF, BUREAU OF ENGINEERING	
2/23/95	MODIFIED SD PROFILE, ADDED M.G. BETWEEN I-9 & E-5. EXTENDED 18" RCP - SAME AREA ADDITIONS TO SD PROFILE, BETWEEN I-2 & I-1.
3/23/94	1
DATE	NO
REVISION	
OWNER/DEVELOPER	DEVELOPER
JOHN LEE CARROLL ATTORNEY AT LAW 515 MADISON AVENUE 52 <sup>ND</sup> FLOOR NEW YORK, NY 10022	WOODLOT ENTERPRISES, INC. % THOMAS SCHWILKE 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD 21042
PROJECT: WOODLOT SECTION ONE	
AREA: TAX MAP 29, PARCEL 365 5 <sup>TH</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE: STORM DRAIN PROFILES AND DETAIL	
RIFMER MUEGG & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045 301-997-8900 • FAX: 301-997-9282	
10-4-93	DATE
DESIGNED BY: JTD	DATE: OCTOBER 4, 1993
DRAWN BY: CADD	SCALE: AS SHOWN
PROJECT NO: 83017	DRAWING NO. 2 OF 12

1677



AS BUILT CERTIFICATE	
JAYKANT D. PAREKH #19148	DATE
BY THE DEVELOPER:	
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.	
DEVELOPER	DATE
BY THE ENGINEER:	
I 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.	
ENGINEER	DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	
ENGINEER	DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
ENGINEER	DATE

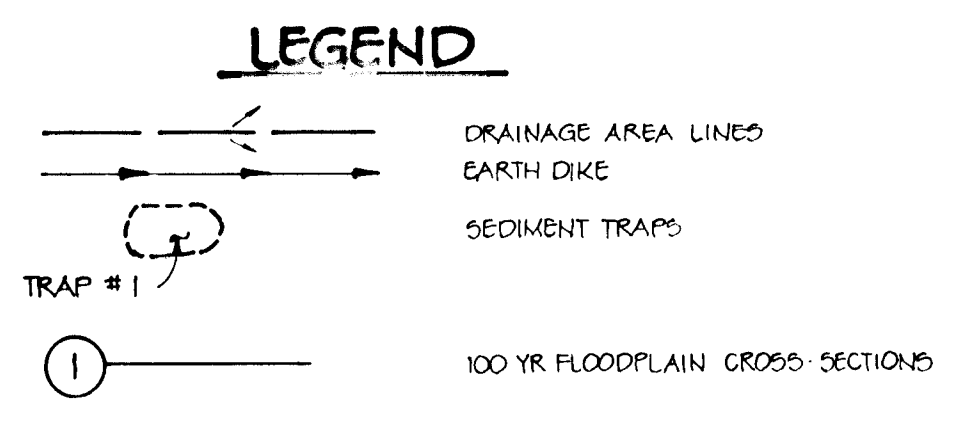
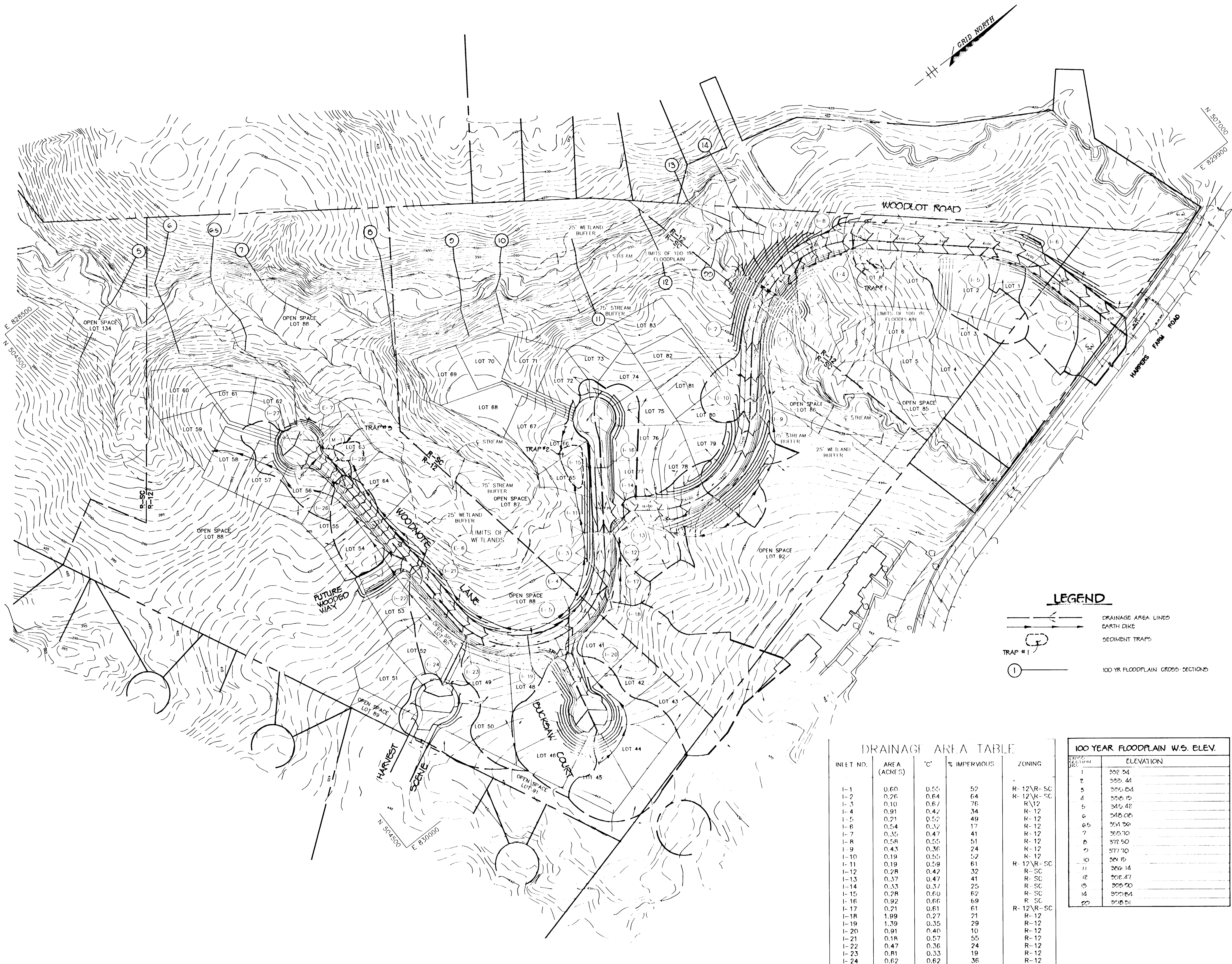
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
Chief, Division of Land Development and Research	DATE
APPROVED: HOWARD COUNTY DEPARTMENT PUBLIC WORKS	
Chief, Land Development Division	DATE
Chief, Bureau of Highways	DATE
Chief, Bureau of Engineering	DATE

9/29/94	1	CHANGES/ADDITIONS TO PRINCIPAL SPILLWAY PROFILE & PROFILE ALONG E OF ROADWAY.	REVISION
OWNER/DEVELOPER	WOODLOT ENTERPRISES, INC.		
JOHN LEE CARROLL ATTORNEY IN FACT 515 MADISON AVENUE SUITE 204 NEW YORK, NY 10022	56 THOMAS SCRIVER DRIVE HOWARD COUNTY, MARYLAND		
PROJECT	WOODLOT SECTION ONE		
AREA	TAX MAP 29 PARCEL 265 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE	STORM DRAIN PROFILES AND DETAILS		
RIFMER MUEGGE & ASSOCIATES, INC.			
A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045 301-997-8900 • FAX: 301-997-9282			
DATE	DESIGNED BY:	JTD	
DATE	DRAWN BY:	CADD	
DATE	PROJECT NO.:	03017	
DATE	SCALE:	AS SHOWN	
DATE	DRAWING NO.:	10 OF 12	

1677

MARYLAND BLUEPRINT CO. INC.

F-93-125 AS-BUILT 1-26-96



**DRAINAGE AREA TABLE**

INLET NO.	AREA (ACRES)	'C'	% IMPERVIOUS	ZONING
I-1	0.60	0.55	52	R-12\N-R-SC
I-2	0.26	0.64	64	R-12\N-R-SC
I-3	0.10	0.67	76	R-12
I-4	0.91	0.42	34	R-12
I-5	0.21	0.52	49	R-12
I-6	0.54	0.32	17	R-12
I-7	0.35	0.47	41	R-12
I-8	0.58	0.55	51	R-12
I-9	0.43	0.36	24	R-12
I-10	0.19	0.55	52	R-12
I-11	0.19	0.59	61	R-12\N-R-SC
I-12	0.28	0.42	32	R-SC
I-13	0.37	0.47	41	R-SC
I-14	0.33	0.37	25	R-SC
I-15	0.28	0.60	62	R-SC
I-16	0.92	0.66	69	R-SC
I-17	0.21	0.61	61	R-12\N-R-SC
I-18	1.99	0.27	21	R-12
I-19	1.39	0.35	29	R-12
I-20	0.91	0.40	10	R-12
I-21	0.18	0.57	55	R-12
I-22	0.47	0.36	24	R-12
I-23	0.81	0.33	19	R-12
I-24	0.62	0.62	36	R-12

**100 YEAR FLOODPLAIN W/S. ELEV.**

SECTION	ELEVATION
1	302.54
2	303.44
3	305.64
4	306.15
5	315.42
6	348.08
6.5	354.26
7	365.70
8	372.50
9	377.70
10	381.15
11	386.14
12	392.47
13	395.00
14	397.84
22	398.01

AS BUILT CERTIFICATE

JAYKANT D. PAREKH #19148 DATE

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER DATE

BY THE ENGINEER :

I 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.

ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. H. Washburn U.S. SOIL CONSERVATION SERVICE DATE

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

H. P. Robertson HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina Simmons CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION DATE

James P. Lewis CHIEF, BUREAU OF HIGHWAYS DATE

Paul D. Ryan CHIEF, BUREAU OF MAINTENANCE DATE

DATE	NO.	REVISION

OWNER / DEVELOPER	DEVELOPER
JOHN LEE CARROLL, ATTORNEY IN FACT 515 MADISON AVENUE 32nd FLOOR NEW YORK, N.Y. 10022	WOODLOT ENTERPRISES, INC. c/o THOMAS SCRIVENER 5026 DORSEY HALL DRIVE SUITE 204 COLUMBIA, MD. 21042

PROJECT **WOODLOT SECTION 1**

AREA TAX MAP 29 PARCEL 365  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **DRAINAGE AREA MAP**

**RIEMER MUEGGE & ASSOCIATES, INC.**  
Planners • Engineers • Surveyors  
8818 Centre Park Drive Suite 200 Columbia, MD 21045  
410-997-8900 FAX : 410-997-9282

DATE

DESIGNED BY : JTD

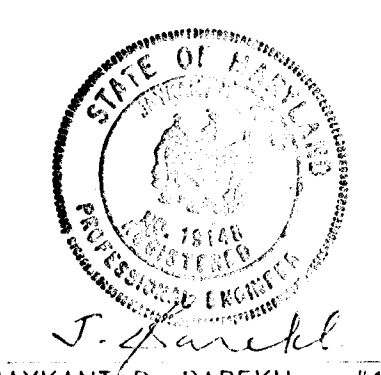
DRAWN BY: CADD

PROJECT NO : 83017

DATE : OCTOBER 4, 1993

SCALE : 1"=100'

DRAWING NO. 11 OF 12



1677

