GENERAL NOTES

1. Present Zoning: R.A. 15
2. Area of section: 10.406 Ac.
3. Number of dwelling units: 156 units
4. Public water and public sewer will be utilized in this submission.
5. The bearings and distances shown hereon are based on the Md. State Grid System.
6. Street trees shall be provided by the developer.
7. All setback distances are shown.
8. Water and sewer service to these units will be granted under the provisions of section 18.122 B of the Howard County Code.
9. Area of proposed parcels: 9.05 Ac.±
10. Area of roads: 1,356 Ac.±
11. Number of dwelling units allowed: 15 units/ac.: 10.406 X 15 = 156.
12. % Open space = 48% or 5.01 Ac.
13. Parking space req'd. = 1.5 spaces/unit = 1.5 X 156 = 234 spaces. Parking space provided = 240 spaces.
14. Building Nos. 1 to 4 are Garden Apartments with 12 two-bedroom units per building.
15. All stormwater facilities are to be privately owned and maintained.

DENSITY TABULATIONS

1.	Gross area	10.406 Ac.
2.	Floodplain/Steep slopes	N.A.
3.	Net area	10.406 Ac.
4.	No. of dwelling units allowed based on net area	156
5.	No. of dwelling units allowed total	156
6.	No. of dwelling units proposed total	156
7.	Density per acre	15
8.	Floodplain lot adjustment lot allowance	NA

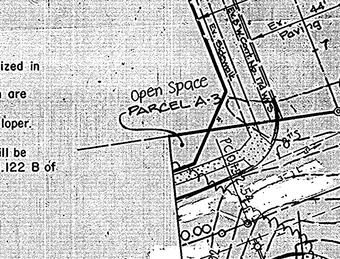
PARKING REQUIREMENTS

Parking requirements = 1.5 spaces/two bedroom unit, 1.5 x 156 = 234 spaces
Buildings 1 to 4: - 48 Units. Parking required - 72, Parking provided - 72.
Units 5 to 48 - 44 Units. Parking required - 66, Parking provided - 69.
Units 49 to 112 - 64 Units. Parking required - 96, Parking provided - 99.
Total Number of parking spaces required - 234.
Total Number of parking spaces provided - 240.

Total area of site --- 9.026 ac.
Percentage of Building --- 16% or 1.48 ac.
Percentage of Open Space Provided --- 54% or 4.916 ac.
Percentage of Paving --- 29% or 2.63 ac.

BUILDING NOS. 1 TO 4
- Number of bedrooms per unit - 2.
- Floor area of two bedrooms provided = 875 sf
- Floor area of two bedrooms required = 660 s.f.
- Number of units per building - 12.

BUILDING NOS. 5 TO 112
- Number of bedrooms per unit - 2.
- Floor area of two bedrooms provided = 1152 sf
- Floor area of two bedrooms required = 660 s.f.
- Total number of units - 108.



TYPICAL HOUSE LAYOUT
NTS

HANDICAPPED PARKING SIGN DETAIL
NTS
PLAN SCALE: 1"=30'

OWNER/DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

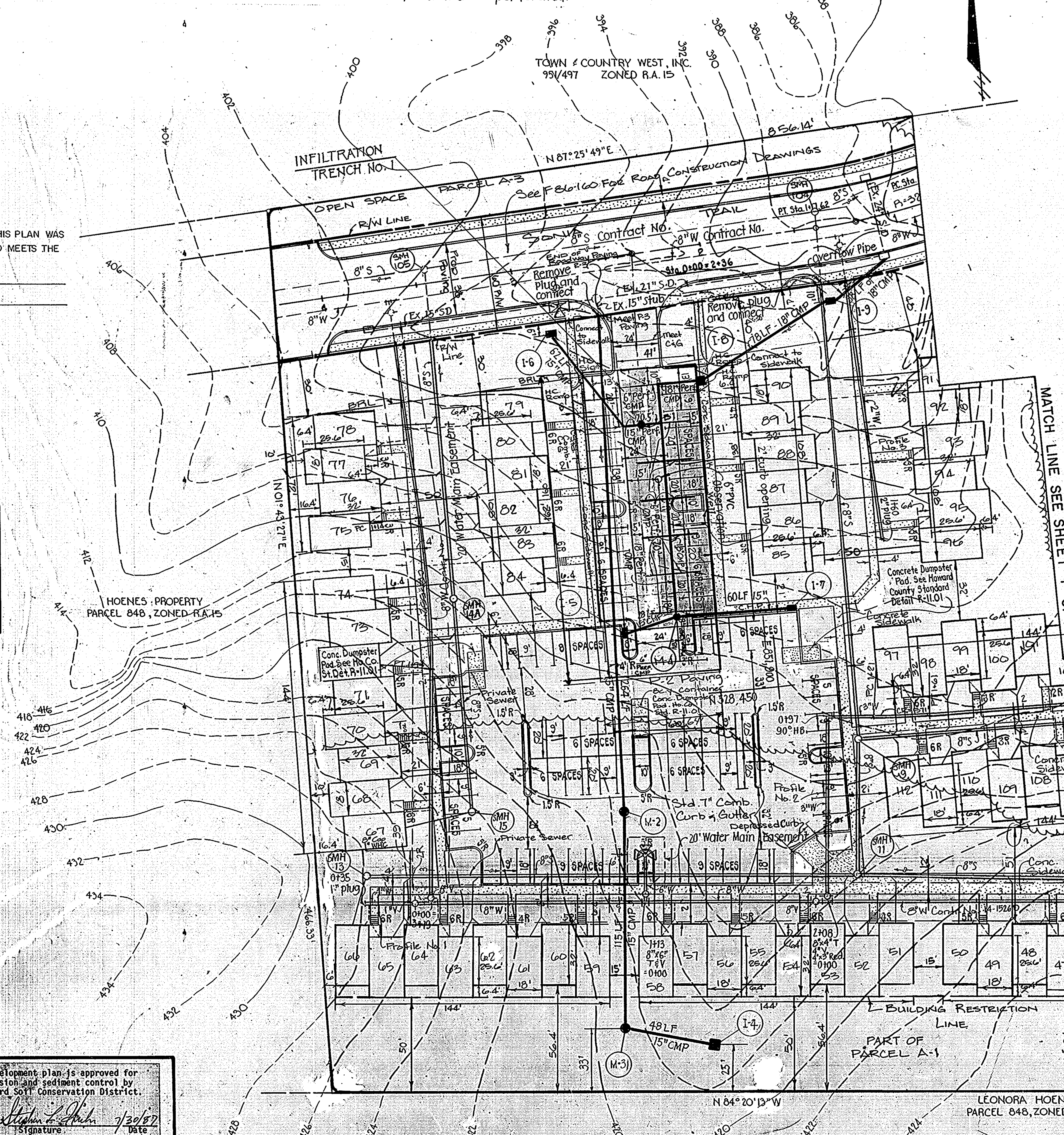
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

Reviewed for Howard Soil Conservation District and meets technical requirements.
James M. Helm 7-30-87
U.S.D. Soil Conservation District Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Approved: Stephen L. Hirsh 7/30/87
Signature Date

TOWN & COUNTRY WEST, INC.
467/294
ZONED R.A. 15
20' Sewer Main Easement
30' Water Main Easement
N 87° 25' 49" E
Open Space PARCEL A-3
WEST
MATCH LINE SEE SHEET 2 OF 10
SPRINGS
DRIVE
Right of Way Line
PARCEL A-2
PART OF PARCEL A-1
See F-86-160 For Road Construction Drawings
Building Restriction Line
Cone. Dumpster Pad See Detail R-11.01
Prop. 8" W Cont. No. 30
Prop. 8" W Cont. No. 19
Prop. 8" W Cont. No. 18
Prop. 8" W Cont. No. 17
Prop. 8" W Cont. No. 16
Prop. 8" W Cont. No. 15
Prop. 8" W Cont. No. 13
Prop. 8" W Cont. No. 12
Prop. 8" W Cont. No. 11
Prop. 8" W Cont. No. 10
Prop. 8" W Cont. No. 9
Prop. 8" W Cont. No. 8
Prop. 8" W Cont. No. 7
Prop. 8" W Cont. No. 6
Prop. 8" W Cont. No. 5
Prop. 8" W Cont. No. 4
Prop. 8" W Cont. No. 3
Prop. 8" W Cont. No. 2
Prop. 8" W Cont. No. 1
Prop. 8" W Cont. No. 103
Prop. 8" W Cont. No. 102
Prop. 8" W Cont. No. 101
Prop. 8" W Cont. No. 104
Prop. 8" W Cont. No. 105
Prop. 8" W Cont. No. 106
Prop. 8" W Cont. No. 107
Prop. 8" W Cont. No. 108
Prop. 8" W Cont. No. 109
Prop. 8" W Cont. No.

NOTE: All pipes inside infiltration trench shall be perforated.



SEWER HOUSE CONNECTION INVERTS

UNIT NO.	INVERT	UNIT NO.	INVERT
1	399.14	54,55	405.69
2	396.34	56,57	405.69
3	392.90	58	406.36
4	395.64	59	408.58
5	388.31	60,61	408.70
6,7	387.73	62,63	410.03
8,9	387.06	64,65	412.05
10	387.18	66	415.40
11	385.09	67	409.51
12,13	384.97	68,69	406.83
14	384.96	70,71	404.82
15	389.56	72,73	403.48
16,17	389.68	74	403.36
18,19	391.68	75	399.82
20,21	393.03	76,77	397.81
22	395.04	78	397.93
23	398.19	79	392.32
24,25	398.73	80,81	393.10
26,27	398.87	82,83	394.45
28	400.75	84	397.13
29	406.71	85	393.36
30	403.06	86,87	391.35
31	403.06	88,89	389.34
32,33	403.18	90,91	389.46
34,35	403.06	92,93	389.90
36,37	403.06	94,95	391.91
38,39	403.18	96	393.92
40,41	403.06	97	402.06
42	403.18	98,99	402.18
43	405.58	100,101	402.85
44,45	405.70	102,103	403.40
46,47	408.38	104,105	403.35
48,49	408.26	106,107	403.47
50	408.38	108,109	403.35
51	405.14	110,111	402.68
52,53	405.02	112	402.80

Invert given is 5' from unit or at Y connection if joint use.

~~Handicap Parking Spaces: In front of Units 79, 90, 31, 32~~

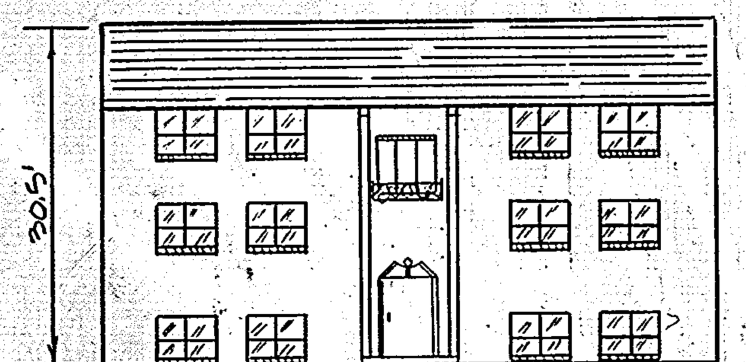
AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE ______ P.E. NO. ______

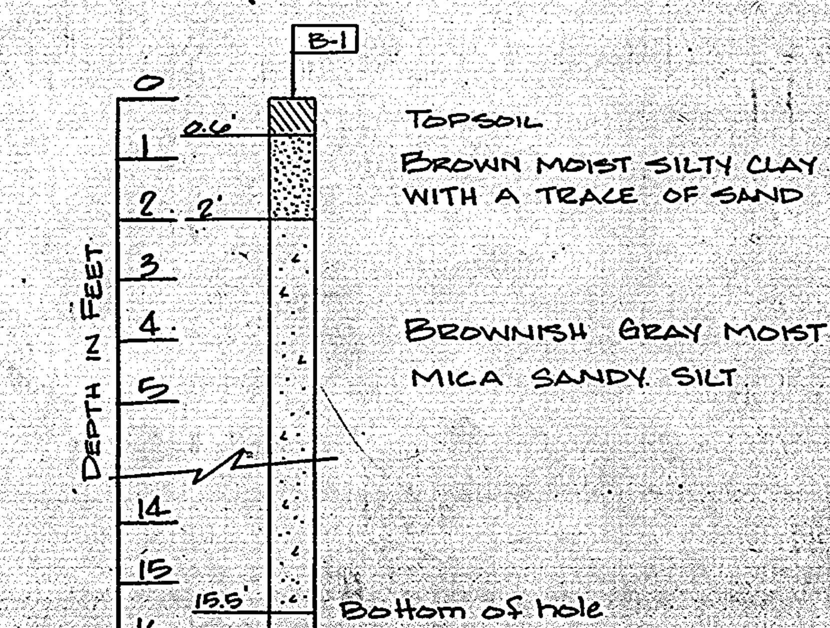
DATE ______

STATE OF MARYLAND — RICHARD HENRY BERICH — No. 10859 — REGISTERED PROFESSIONAL ENGINEER



Building Schematic Profile
Bldg. 1-4
NTS

BUILDING SCHEMATIC PROFILE
BUILDINGS 5-112
NTS



SOIL BORING LOG - B-1
NTS

PLAN SCALE: 1" = 30'

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

Revised 8/2/95
Revised 6/10/92
Revised 5/12/88
Revised 5/29/86

Waiver Reference VP-87-77

OWNER / DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

Reviewed for Howard Soil Conservation District and meets technical requirements.
7-30-87
U.S. Soil Conservation District Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Approved: ______ 7/30/87
Signature Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR 8/4/87 DATE
CHIEF, BUREAU OF ENGINEERING 8-3-87 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 8-5-87 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 8/6/87 DATE
PLANNING DIRECTOR 1-8-6-87 DATE

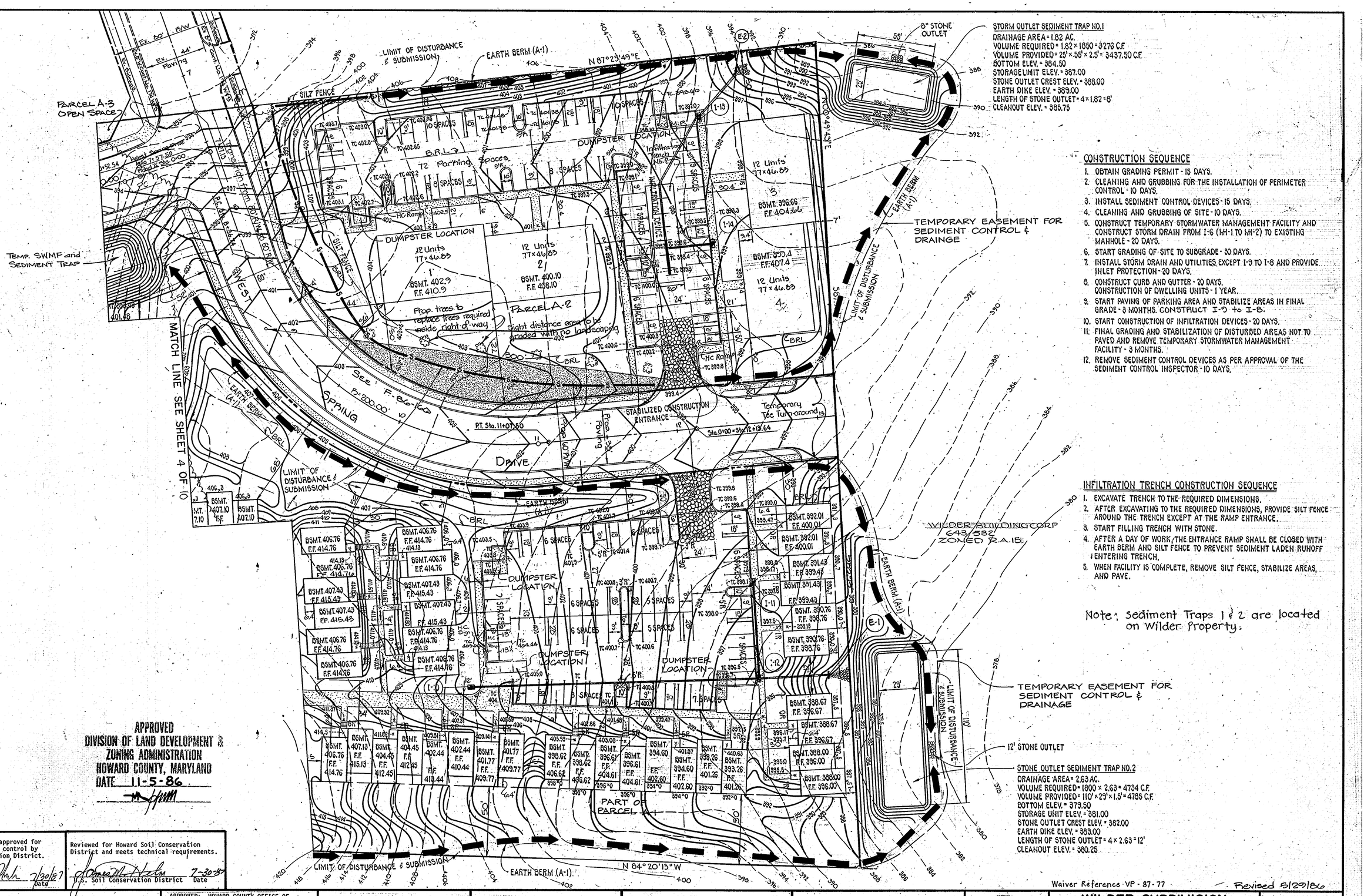
DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
Signature 3/18/86 Date

ENGINEER'S CERTIFICATION
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.
William G. Rasch II No. 4575 3/24/86 Date

WILDER SUBDIVISION
SITE DEVELOPMENT PLAN
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE 1" = 30' APRIL 1986
TAX MAP 17 F-86-160 PARCEL 848

DES. A.R.T.
DRWN.
CHK. A.R.T.
5394-40

SDP-86-214



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: _____ Signature 7/30/87 Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

_____ U.S. Soil Conservation District 7-30-87 Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

_____ CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 8-6-87 DATE

_____ PLANNING DIRECTOR 8.6.87 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS

_____ DIRECTOR 8/6/87 DATE

_____ CHIEF, BUREAU OF ENGINEERING 8-5-87 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

_____ COUNTY HEALTH OFFICER 8/5/87 DATE

DEVELOPER'S CERTIFICATION
I 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 the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.

_____ Signature 3/24/86 Date

ENGINEER'S CERTIFICATION
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.

William G. Kassel III No. 4515 3/24/86 Date

STATE OF MARYLAND — WILLIAM G. KASSEL III — REGISTERED PROFESSIONAL ENGINEER

WILDER SUBDIVISION
SITE DEVELOPMENT PLAN
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY

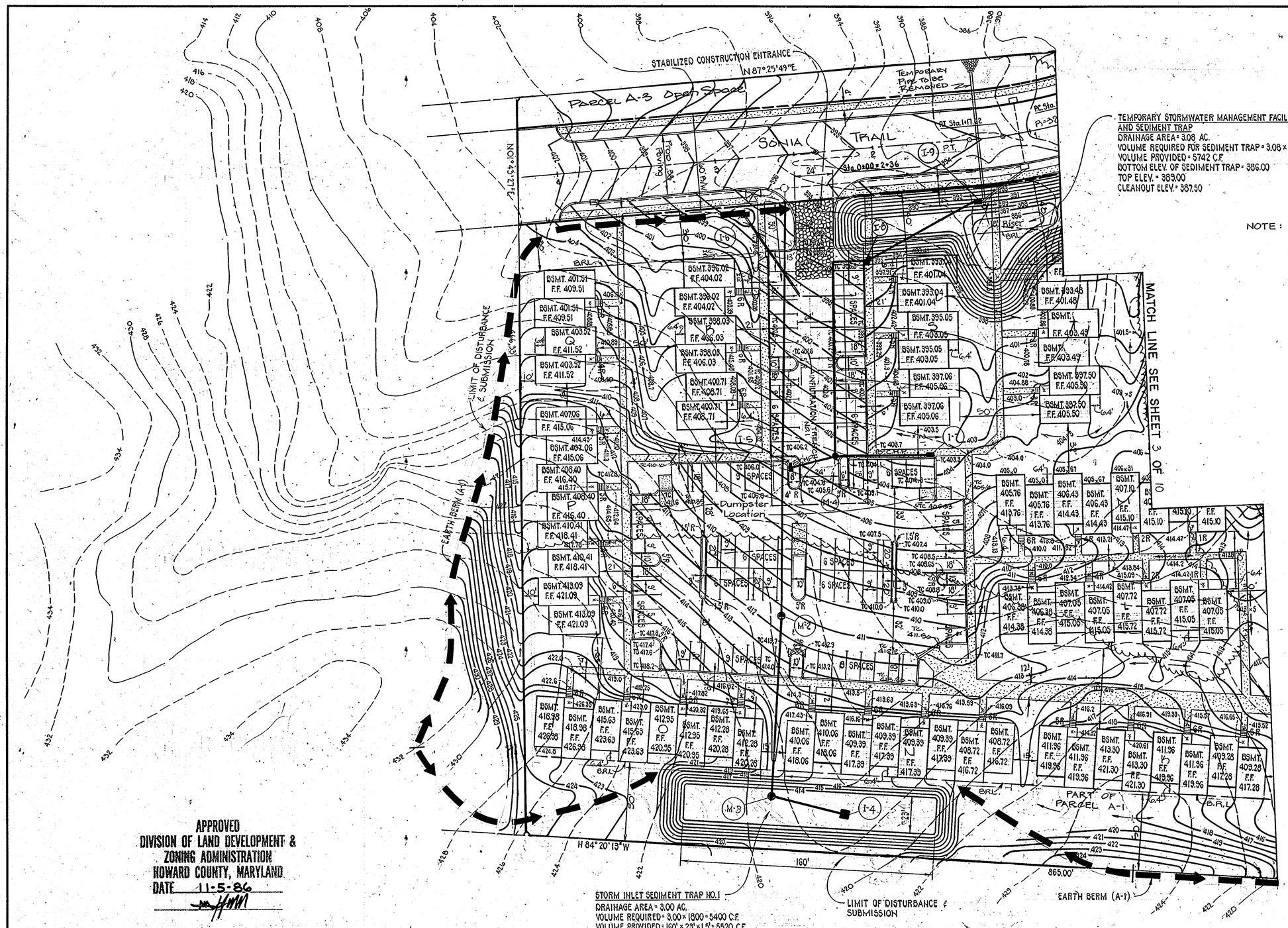
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' APRIL, 1986
TAX MAP-17 F-86-160 PARCEL 848

Waiver Reference VP - 87 - 77 Revised 8/29/86

SHEET 3 OF 10
DES. A.R.T.
DRWN. A.R.W.
CHK. A.R.T.
J.O. NO. 5394-40

SDP-86-214

A&E BALT.



TEMPORARY STORMWATER MANAGEMENT FACILITY AND SEDIMENT TRAP
DRAINAGE AREA = 3.08 AC.
VOLUME REQUIRED FOR SEDIMENT TRAP = 3.08 × 1800 = 5544 C.F.
VOLUME PROVIDED = 5742 C.F.
BOTTOM ELEV. OF SEDIMENT TRAP = 386.00
TOP ELEV. = 389.00
CLEANOUT ELEV. = 387.50

NOTE: The temporary storm water management facility shall be seeded and mulched after construction. See sheet 9 of 10 for temporary seeding notes.

STORM INLET SEDIMENT TRAP NO. 1
DRAINAGE AREA = 3.00 AC.
VOLUME REQUIRED = 3.00 × 1800 = 5400 C.F.
VOLUME PROVIDED = 160' × 23' × 1.5' = 5520 C.F.
BOTTOM ELEV. = 414.00
STORAGE UNIT ELEV. = 415.50
CLEANOUT ELEV. = 414.75

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Approved: Stephen L. Hunt 7/30/87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.
James M. Helm 7-30-87
U.S. Soil Conservation District Date

Waiver Reference VP-87-77

Revised 6/10/92
Revised 5/29/86

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John W. Musselman 8-6-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE
Wm P. Ames 8-6-87
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS
James M. Irwin 8/4/87
DIRECTOR DATE
William E. Riley 8-3-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd M.D./F.F. 8-5-87
COUNTY HEALTH OFFICER DATE

DEVELOPER'S CERTIFICATION
I 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 the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
Joseph Wilder 7/30/87
Signature Date

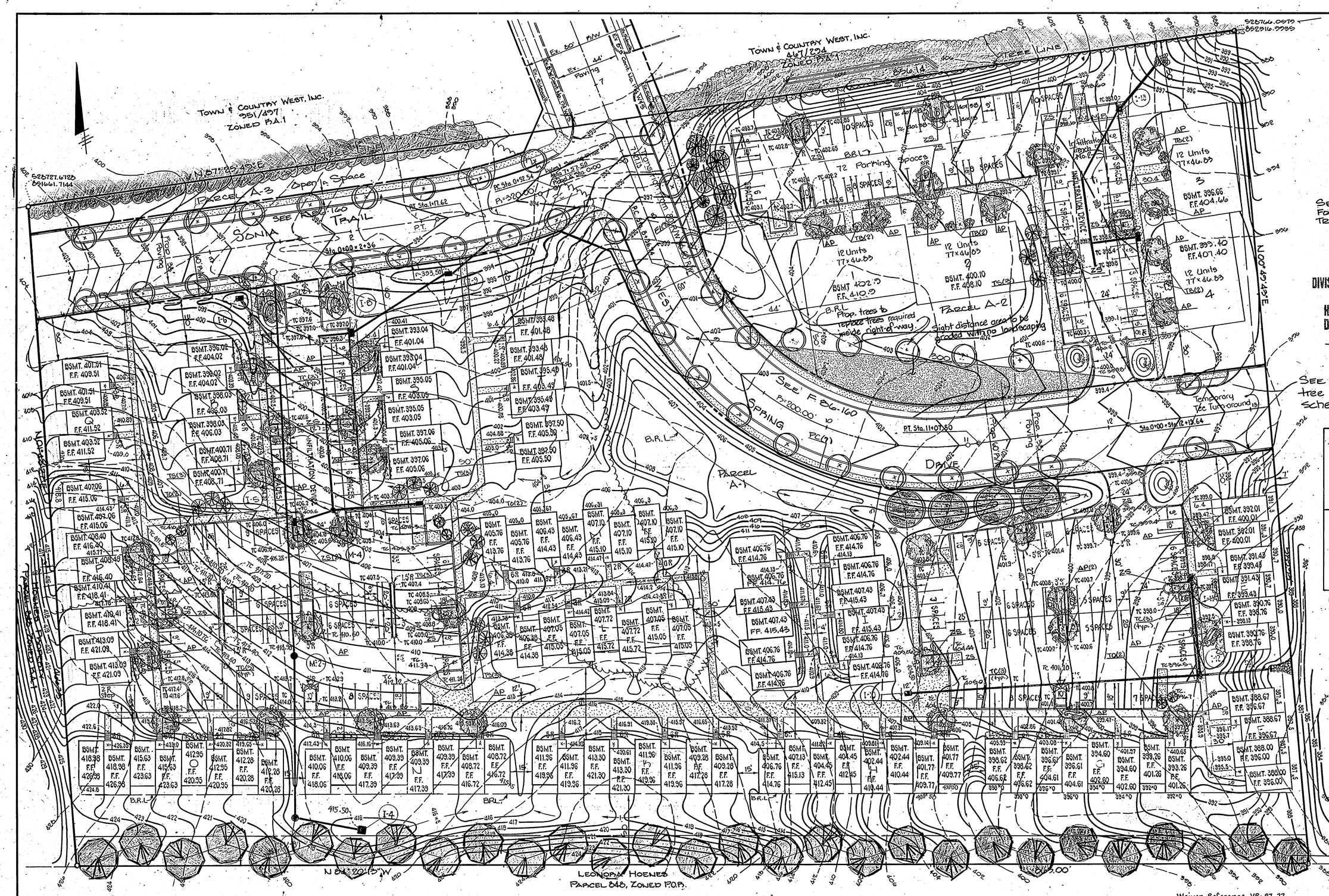
ENGINEER'S CERTIFICATION
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
William G. Rasch 3/24/86
William G. Rasch 119 No. 4575 Date

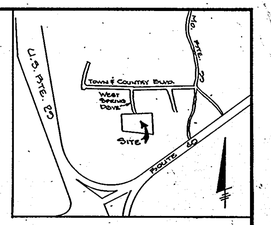
STATE OF MARYLAND
WILDER, SUBDIVISION
SEDIMENT & EROSION CONTROL PLAN
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' APRIL, 1986
TAX MAP 17 F-86-160 PARCEL 848

SHEET 4 OF 10
DES. A.R.T.
DRWN. A.R.W.
CHK. A.R.T.
J.O. NO. 5394-40

A&E BALT.

SDP-86-214





SEE SHEET 9 OF 10 FOR PLANT LIST, SYMBOLS & TREE PLANTING DETAIL

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

SEE F 86-160 for street tree planting details and schedule (typ.)

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: _____ 7-30-87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

_____ 7-30-87
U.S. Soil Conservation District Date

Waiver Reference VP-87-77

Revised 5/20/86

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For public water, public sewerage, storm drainage and roads.
Howard County Department of Public Works
_____ 8/4/87
Director Date
_____ 8-3-87
Chief, Bureau of Engineering Date

APPROVED: For public water and public sewerage systems.
Howard County Health Department
_____ 8-5-87
County Health Officer Date

APPROVED: Howard County Office of Planning and Zoning.
_____ 8/6/87
Chief, Division of Land Development and Zoning Administration Date
_____ 8-6-87
Planning Director Date

DEVELOPER'S CERTIFICATION
I 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 the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
_____ 9/4/86
Signature Date

ENGINEER'S CERTIFICATION
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.
_____ 3/24/86
William G. Rasch II No. 4575 Date

STATE OF MARYLAND — WILLIAM G. RASCH II — REGISTERED PROFESSIONAL ENGINEER

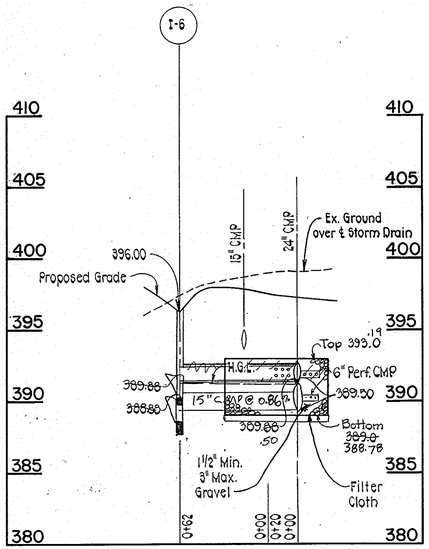
WILDER SUBDIVISION
LANDSCAPING & GRADING PLAN

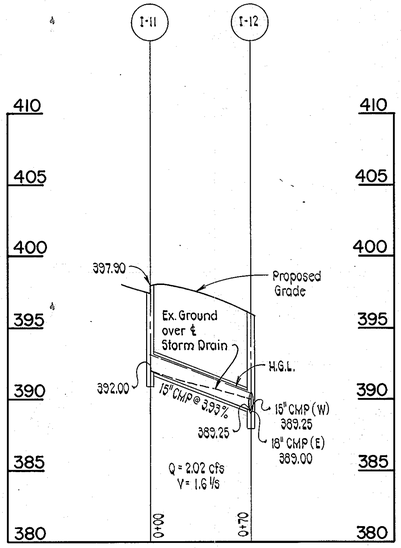
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP NO. 17 PARCEL NO. 848
ZONED RA15 SCALE: 1" = 30' APRIL 1986
F-86-160

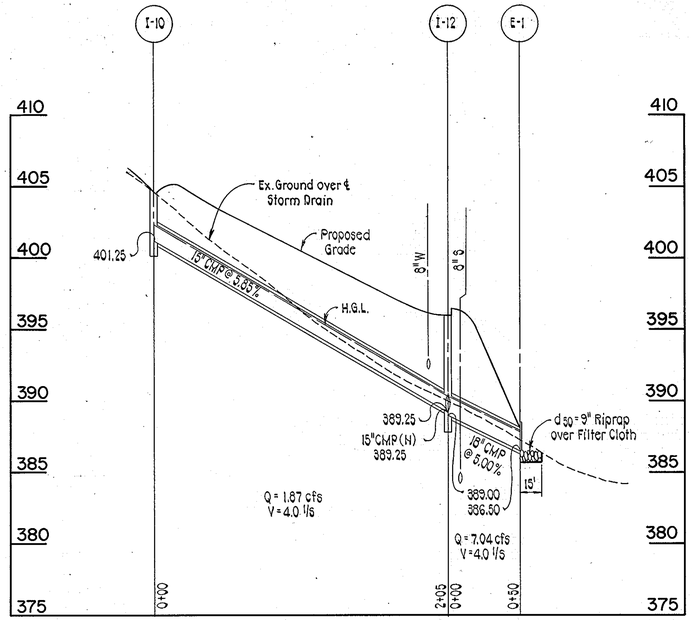
SHEET 5 OF 10
DES: ATR
DRAWN: ARW
CHK: ATR
J.O. NO. 5394-40

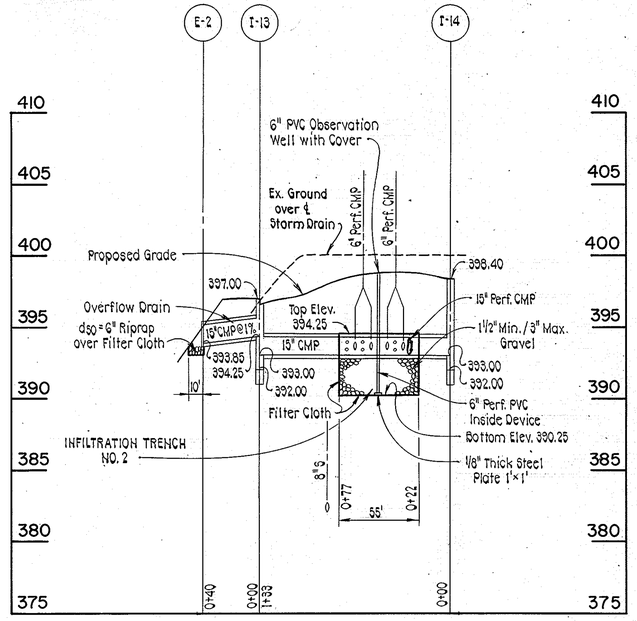
SDP-86-214

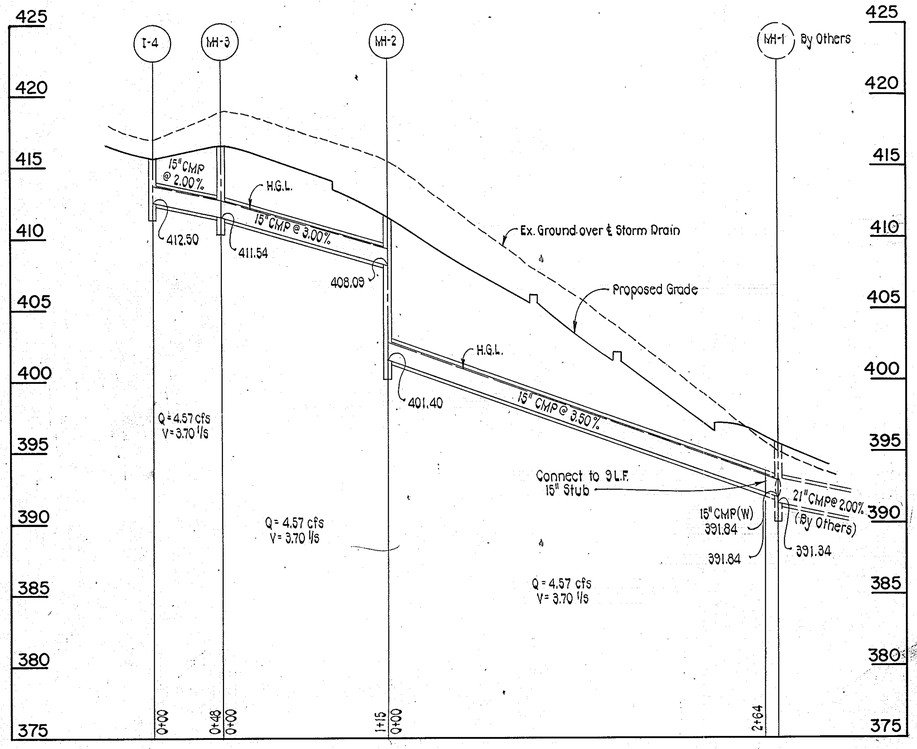
A&E BALT.

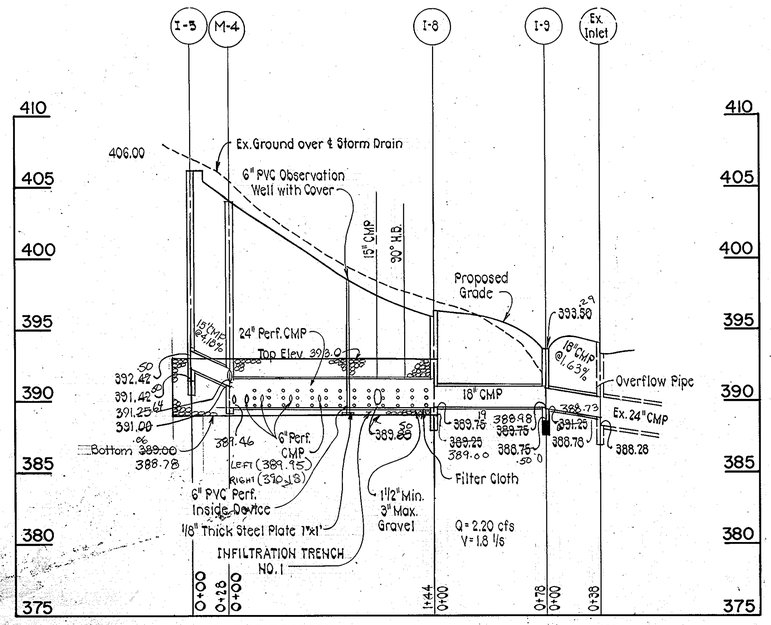


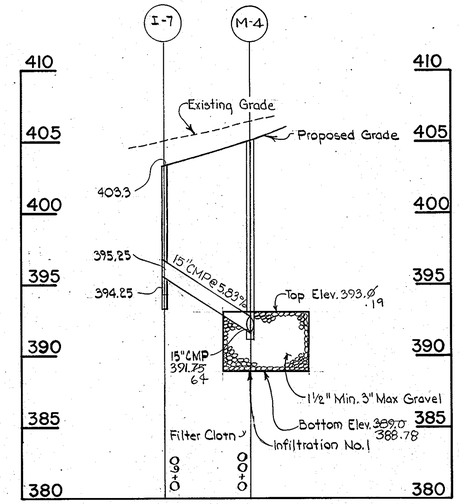












AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE AS BUILT PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ P.E. NO. _____

DATE _____

STATE OF MARYLAND — No. 10859 — REGISTERED PROFESSIONAL ENGINEER

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

Revised 8/2/95
Revised 6/10/92
Revised 5/20/86

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION DISTRICT — DATE 7-30-87

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 7/31/87

Waiver Reference VP-87-77

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 — 301/837-0194

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE AND ROAD
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8/6/87
CHIEF, BUREAU OF ENGINEERING — DATE 8-3-87

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-5-87

APPROVED
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-6-87
PLANNING DIRECTOR — DATE 8-6-87

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

Joseph Wilder — DATE 2/25/86

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

William G. Rasch II — DATE 3/24/86

STATE OF MARYLAND — No. 6917 — REGISTERED PROFESSIONAL ENGINEER

WILDER SUBDIVISION

STORM DRAIN & INFILTRATION TRENCH PROFILES

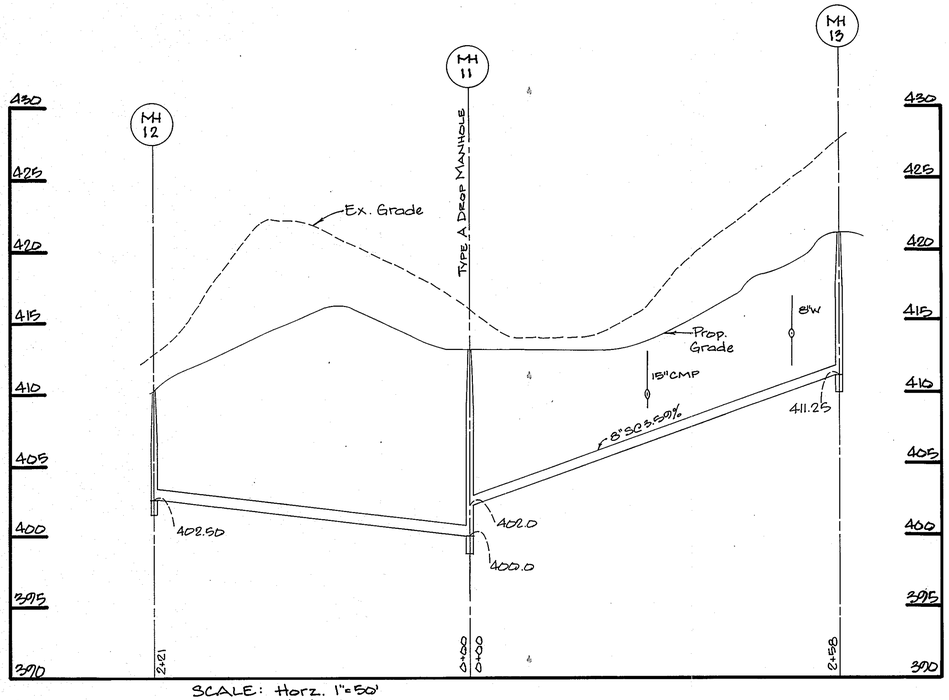
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY

2nd ELECTION DISTRICT — HOWARD COUNTY, MD.
SCALE: 1"=50' HORIZ. / 1"=5' VERT. — APRIL, 1986
TAX MAP 17 — F-86-160 — PARCEL 848

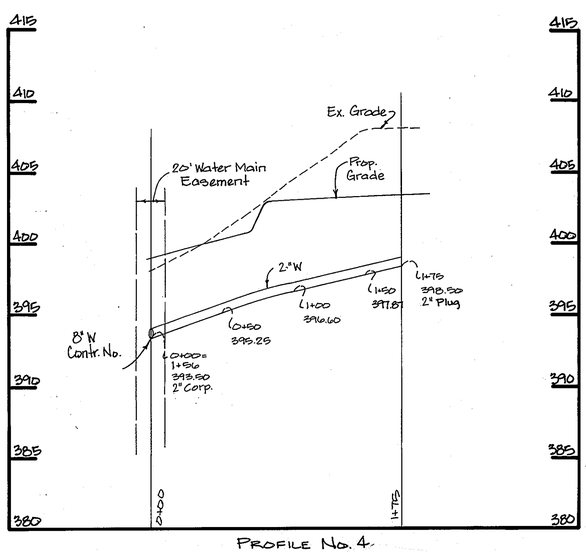
SHEET 6 OF 10
DES. BY: ATR
DRWN. BY: ARW
CHK'D BY: ATR
J.O. NO. 5394-30

A&E BALT.

SDP-86-214



SCALE: Horz. 1"=50'
Vert. 1"=5'



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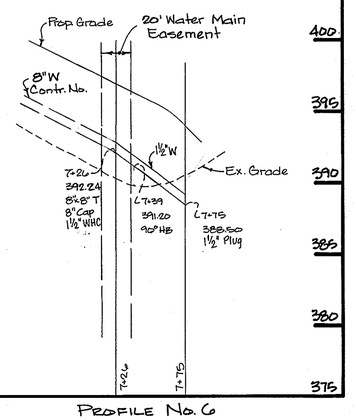

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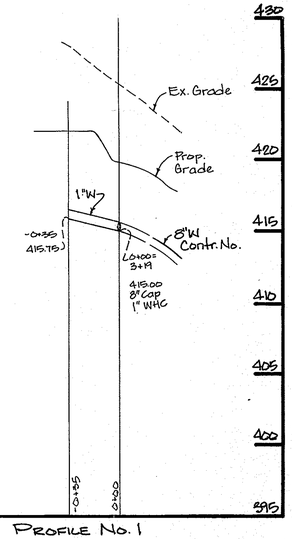

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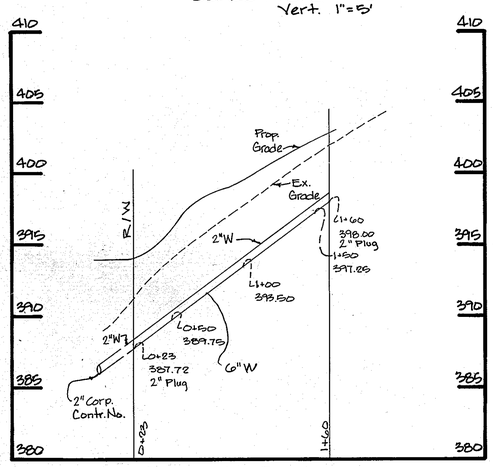

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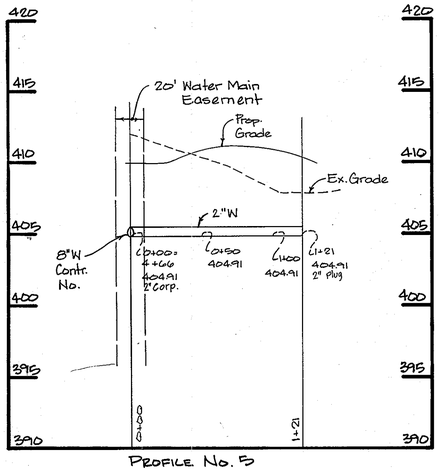

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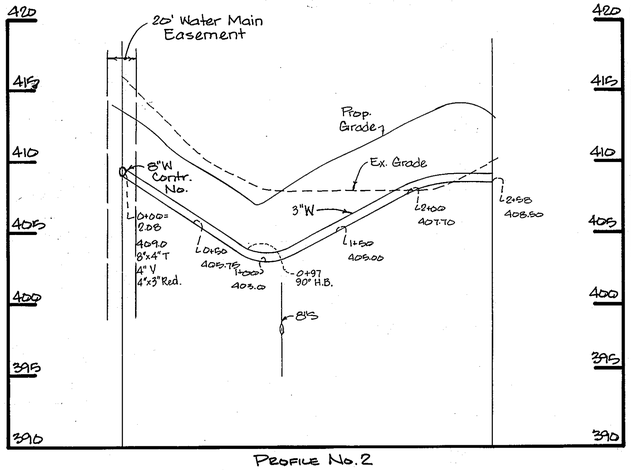


PROFILE No. 2

ADDRESS CHART

BLDG#	STREET ADDRESS	BLDG.#	STREET ADDRESS	BLDG.#	STREET ADDRESS
1	3203 WEST SPRING DRIVE	39	3220 WEST SPRING DRIVE	77	3241 SONIA TRAIL
2	3201 "	40	3222 "	78	3243 "
3	3207 "	41	3224 "	79	3247 "
4	3209 "	42	3226 "	80	3249 "
5	3206 "	43	3165 SONIA TRAIL	81	3251 "
6	3204 "	44	3167 "	82	3253 "
7	3202 "	45	3169 "	83	3255 "
8	3200 "	46	3171 "	84	3257 "
9	3216 "	47	3173 "	85	3111 "
10	3214 "	48	3175 "	86	3109 "
11	3212 "	49	3177 "	87	3107 "
12	3210 "	50	3179 "	88	3105 "
13	3268 "	51	3183 "	89	3103 "
14	3266 "	52	3185 "	90	3101 "
15	3262 "	53	3187 "	91	3115 "
16	3260 "	54	3189 "	92	3117 "
17	3258 "	55	3191 "	93	3119 "
18	3256 "	56	3193 "	94	3121 "
19	3254 "	57	3195 "	95	3123 "
20	3252 "	58	3197 "	96	3125 "
21	3250 "	59	3201 "	97	3129 "
22	3248 "	60	3203 "	98	3131 "
23	3244 "	61	3205 "	99	3133 "
24	3242 "	62	3207 "	100	3135 "
25	3240 "	63	3209 "	101	3137 "
26	3238 "	64	3211 "	102	3139 "
27	3236 "	65	3213 "	103	3141 "
28	3234 "	66	3215 "	104	3143 "
29	3232 "	67	3210 "	105	3147 "
30	3230 "	68	3221 "	106	3149 "
31	3202 "	69	3223 "	107	3151 "
32	3204 "	70	3225 "	108	3153 "
33	3206 "	71	3227 "	109	3155 "
34	3208 "			110	3157 "
35	3210 "	73	3231 "	111	3159 "
36	3212 "	74	3233 "	112	3161 "
37	3216 "	75	3237 "	113	
38	3218 "	76	3239 "	114	

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: Stephen L. Hahn 7/30/87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

Thomas M. Helm 7-30-87
U.S. Soil Conservation District Date

OWNER / DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

Revised 5/29/86 Revised 3/12/88 Waiver Reference VP-87-77

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.
HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR 8/14/87 DATE
CHIEF, BUREAU OF ENGINEERING 8-3-87 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 8-5-87 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 8-6-87 DATE
PLANNING DIRECTOR 8-6-87 DATE

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT
Joseph Wilde 3/15/86 DATE

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
William G. Rasch II 3/24/86
WILLIAM G. RASCH II NO. 4575 DATE

STATE OF MARYLAND — WILLIAM G. RASCH II — REGISTERED PROFESSIONAL ENGINEER

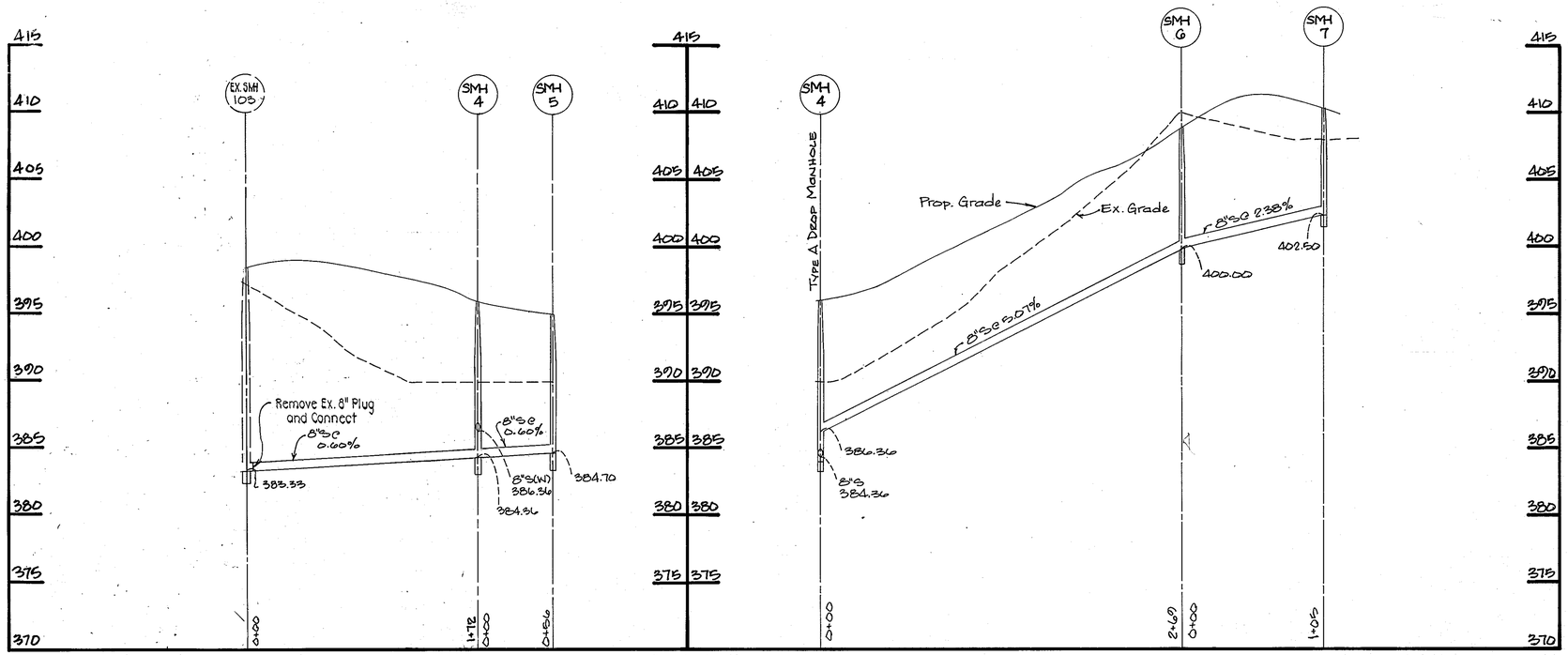
WILDER SUBDIVISION
WATER & SEWER PROFILES

PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE AS SHOWN APRIL, 1986
TAX MAP 17 F-86-160 PARCEL 848

SHEET 7 OF 10
DES. A.R.T.
DRWN. P.S.
CHK. A.R.T.
5394-40

SDP-86-214

BRUNING ANE 1M3-2



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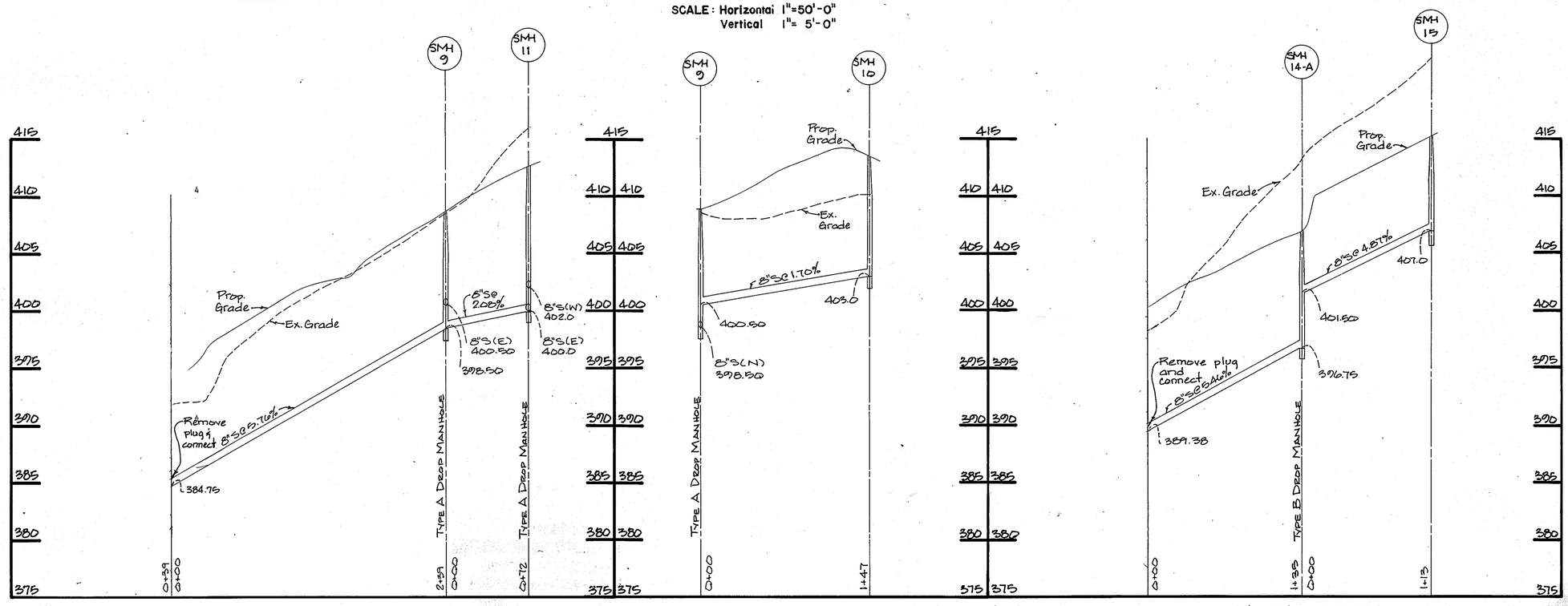
Vertical 1"= 5'-0"



Waiver Reference VP-87-77

Revised 5/20/86

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

OWNER / DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Approved: Stephen L. Smith 7/30/87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.
James M. Helm 7-30-87
U.S. Soil Conservation District Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.
HOWARD COUNTY DEPT OF PUBLIC WORKS
DIRECTOR — DATE 8/6/87
CHIEF, BUREAU OF ENGINEERING — DATE 8-3-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd M.D. 8-5-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8/6/87
PLANNING DIRECTOR — DATE 8.6.87

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Joseph Wilder 3/10/86
DATE

ENGINEER'S CERTIFICATION
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William G. Rasch II 3/24/86
WILLIAM G. RASCH II NO. 4575 DATE

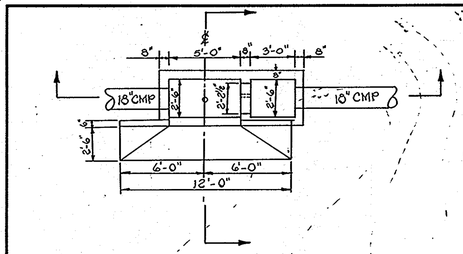
STATE OF MARYLAND — WILLIAM GEORGE RASCH II — REGISTERED PROFESSIONAL ENGINEER

WILDER SUBDIVISION
SEWER PROFILES
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE AS SHOWN APRIL, 1986
TAX MAP 17 F-86-160 PARCEL 848

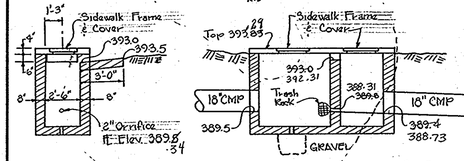
SHEET 8 OF 10
DES. A.R.T.
DRWN. P.S.
CHK. A.R.T.
J.O. NO. 5394-40

SDP-86-214

A&E BALT.



PLAN
NTS



SECTION A-A
NTS

SECTION B-B
NTS

MODIFIED TYPE 'A-5' INLET
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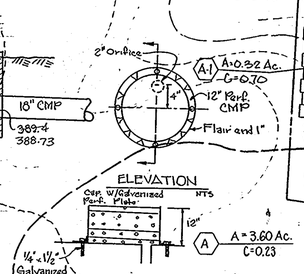

TRASH RACK
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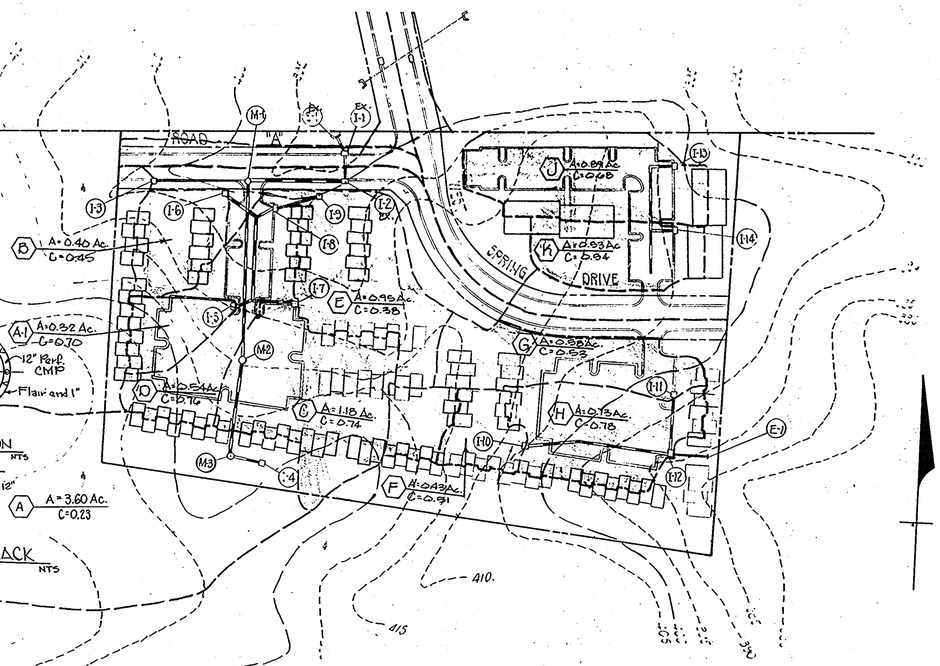
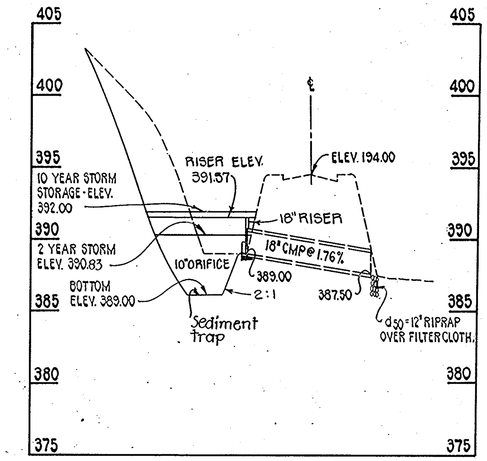
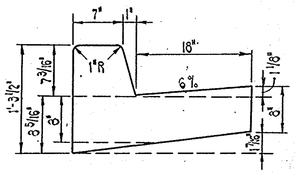


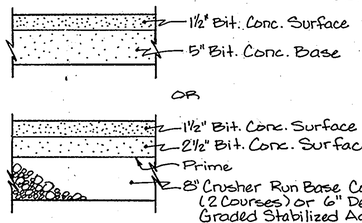
STORM DRAINAGE MAP
SCALE: 1" = 100'



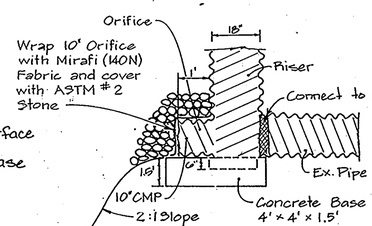
TEMPORARY SWM FACILITY
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

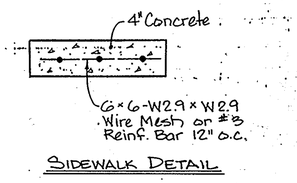


STD. 7" COMBINATION CURB AND GUTTER



PAVING DETAIL (P-2)





SIDEWALK DETAIL

STRUCTURE SCHEDULE

No.	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-4	Type S	—	412.50	*418.50	Ho.Co.SD -4.22
I-5	A-5	—	391.42*	406.00	Ho.Co.SD- 4.01
I-6	Type S	—	388.62*	396.00	Ho.Co.SD-4.22
I-7	A-10	—	394.25*	403.30	Ho.Co.SD-4.02
I-8	A-5	—	389.25*	396.30	Ho.Co.SD-4.01
I-9	Type S	—	388.75*	393.50	Ho.Co.SD-4.22
I-10	Type S	—	401.45	404.50	Ho.Co.SD-4.22
I-11	A-5	—	392.00	397.90	Ho.Co.SD-4.01
I-12	A-5	389.25	389.00	396.50	Ho.Co.SD-4.01
I-13	A-5	—	392.00*	397.00	Ho.Co.SD-4.01
I-14	A-5	—	392.00*	398.40	Ho.Co.SD-4.01
MH-2	Manhole	408.09	401.40	411.50	Ho.Co.G.5.01 or G.5.11
MH-3	Manhole	411.54	411.54	416.50	Ho.Co.G.5.01 or G.5.11
E-1	Metal End Section	—	386.50	—	Ho.Co. SD-5.61

* Bottom of Inlet

CONSTRUCTION SPECIFICATIONS
INFILTRATION TRENCH

1. Trench Preparation

Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.

2. Fabric Laydown

The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.

3. Stone Aggregate Placement and Compaction

The stone aggregate should be placed in lifts and compacted. A maximum loose lift thickness of 12 inches shall be used per layer.

4. Perforated Pipe

All piping inside infiltration device shall be perforated corrugated metal pipe. Perforation shall be provided at the bottom half of the pipe. Pipes shall be installed in accordance with the drawings.

5. Overlapping and Covering

Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

6. Contamination

Care shall be exercised to prevent natural or fill soils from intermixing with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

7. Voids Behind Fabric

Voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

8. Stone Aggregate

Stone aggregate shall be 1-1/2" minimum to 3" maximum size.

9. Trench Backfill

The trench, after installing infiltration devices, shall be backfilled in 12" layers and shall be compacted to at least 90 percent of maximum density.

10. Timing

An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

11. Stabilization

See approved Sediment Control Plan for stabilization of areas not to be paved.

Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications and with Road Construction Plan F ; Drawing Sediment and Erosion Control.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved: Stephen L. Hahn 7/30/87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved: James M. Helm 7-30-87
U.S. Soil Conservation District Date

OWNER / DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

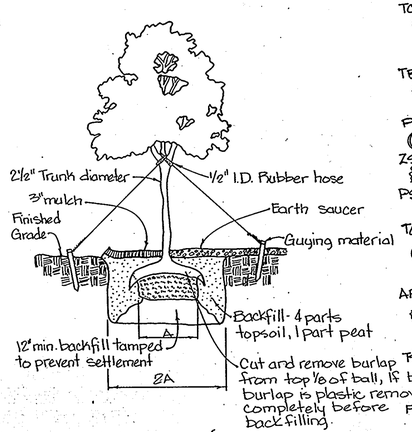
AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE AS BUILT PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE P.E. NO.

DATE

BISER DETAIL
TEMP. SWMF



TREE PLANTING DETAIL

PLANT LIST

Key/Symbol	Quan.	Name	Size	Spacing
TC	63	Taxus cuspidata 'Nana' Dwarf Japanese Yew	15-18" cont.	5' o.c. as shown
TB	8	Taxus baccata 'Repanders' English Yew	18-24" B&B	As shown
PC	6	Pyrus calleryana 'Bradford' Pear	2-2½" cal. B&B	As shown
ZS	20	Zelcova Serrata Japanese zelcova	2-2½" cal. B&B	As shown
PS	29	Pinus strobus White Pine	4-5' B&B	30' oc.
TO	6	Thuja occidentalis 'Nigra' Dt. Green American Arborvitae	5-6' B&B	As shown
AP	26	Acer palmatum autropurpurem 'Bloodgood' Bloodgood Maple	2-2½" cal. B&B	As shown
TS	20	Tsuga canadensis Canadian Hemlock	4-5' B&B	As shown
FI	2	Forsythia x intermedia var. sieboldii Forsythia	3-4' B&B	As shown

Waiver Reference VP-87-77

Revised 8/2/95
Revised 6/11/92
Revised 5/29/86

APPROVED: For public water, public sewerage, storm drainage and roads.
Howard County Health Department
Director 8/25/87 Date
Chief, Bureau of Engineering 8/3/87 Date

APPROVED: For public water and public sewerage systems.
Howard County Health Department
County Health Officer 8-5-87 Date

APPROVED: Howard County Office of Planning and Zoning.
Chief, Division of Land Development and Zoning Administration 8-6-87 Date
Planning Director 8.6.87 Date

DEVELOPER'S CERTIFICATION
I 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 the Department of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
Signature 7/24/87 Date

ENGINEER'S CERTIFICATION
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.
RICHARD H. BEERICH 7/24/87 Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

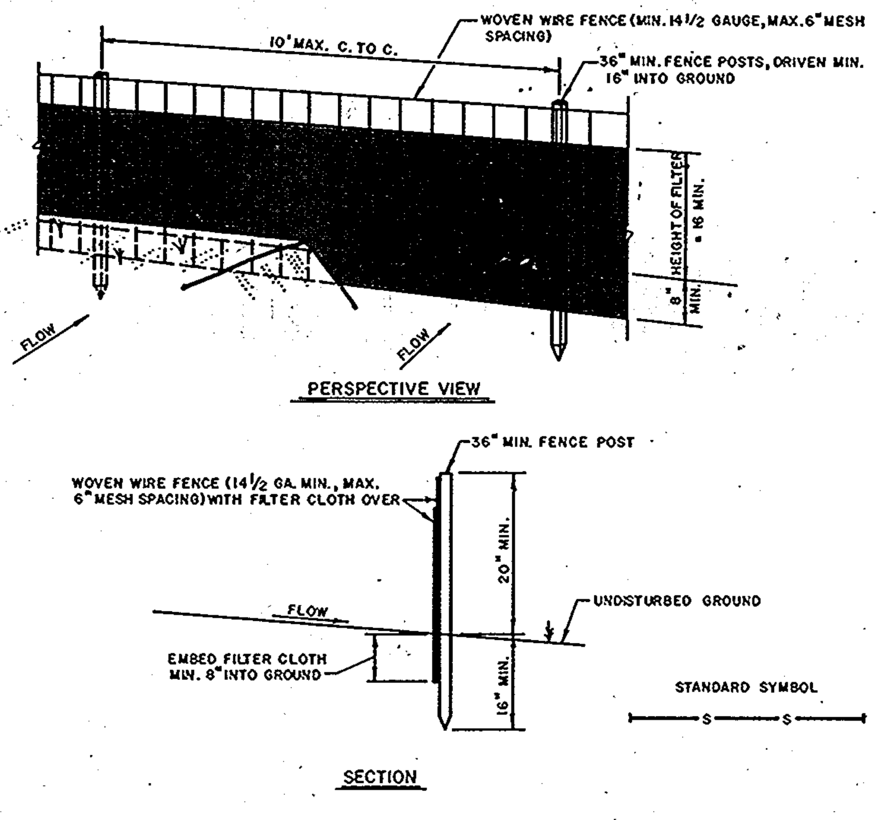
WILDER SUBDIVISION
STORM WATER & SITE DETAILS
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP NO. 17 PARCEL NO. 848
ZONED RA15 F-86-160 APRIL 1986

SHEET 9 OF 10
DES: ATR
DRAWN: ARW
CHK: WGR
J.O. NO. 5394-40

SDP-86-214

A&E BALT.

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid-section.
3. When two sections of filter cloth adjoin each other, they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

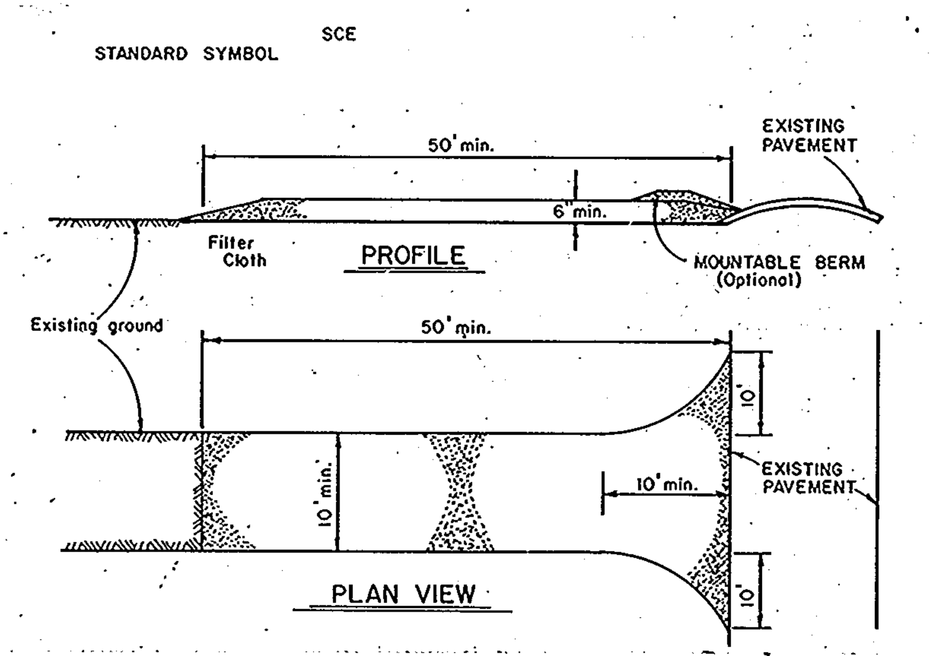
POSTS: Steel either T or U Type or 2" Hardwood

FENCE: Woven wire, 14 Ga. 6" Max. Mesh Opening

FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N, or approved equal

PREFABRICATED UNIT: Geofab, Envirofence, or approved equal

STABILIZED CONSTRUCTION ENTRANCE
not to scale



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30-foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may required periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspections and needed maintenance shall be provided after each rain.

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 3 inches of soil by raking, discing, or other acceptable means before seeding.

Soil Amendments: Use on the 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. Harrow 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.)

20 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. Harrow 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. of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well-anchored straw.

Mulching: Apply 1½ to 2 tons per acre (70 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 gallons per acre (5 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 reseedings.

TEMPORARY SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding.

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 from August 15 thru November 15, seed with 2½ bushel per area of annual rye (3.2 lbs/1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000 sq.ft.). For the period November 16 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 1½ to 2 tons per acre (70 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 (5 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

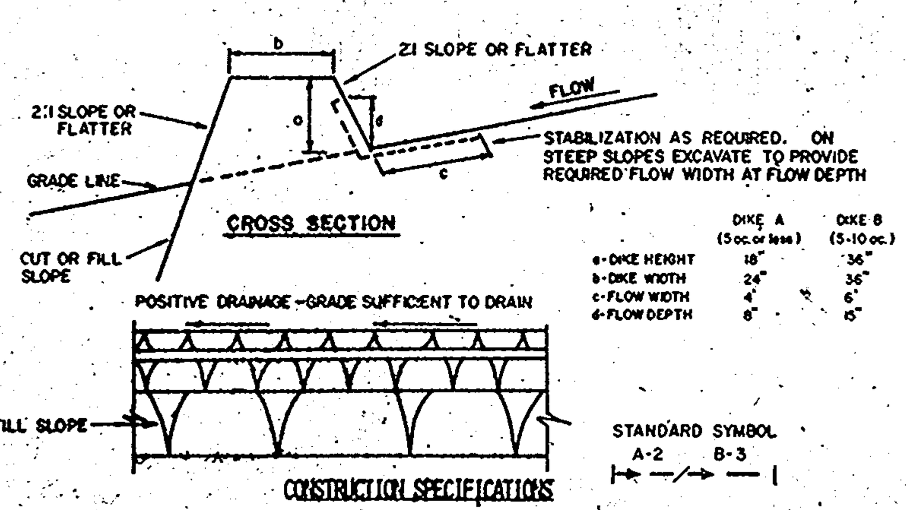
SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch along can only be done when recommended seeding dates do not allow proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:

Total area of site	9.16	acres
Area disturbed	9.00	acres
Area to be roofed or paved	4.11	acres
Area to be vegetatively stabilized	5.05	acres
Total cut	19,844	cu.yds.
Total fill	14,883	cu.yds.
Office waste/borrow area location	NOT KNOWN	

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. On all site with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

EARTH DIKE
not to scale



	DIKE A (5 ac. or less)	DIKE B (5-10 ac.)
a-DIKE HEIGHT	18"	36"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	8"	15"

STANDARD SYMBOL A-2 B-3

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES 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 TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

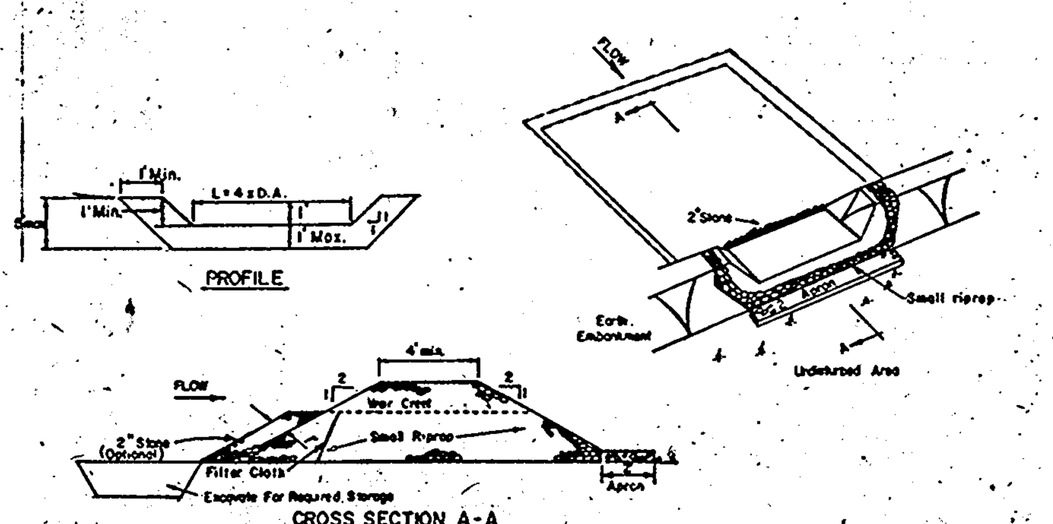
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

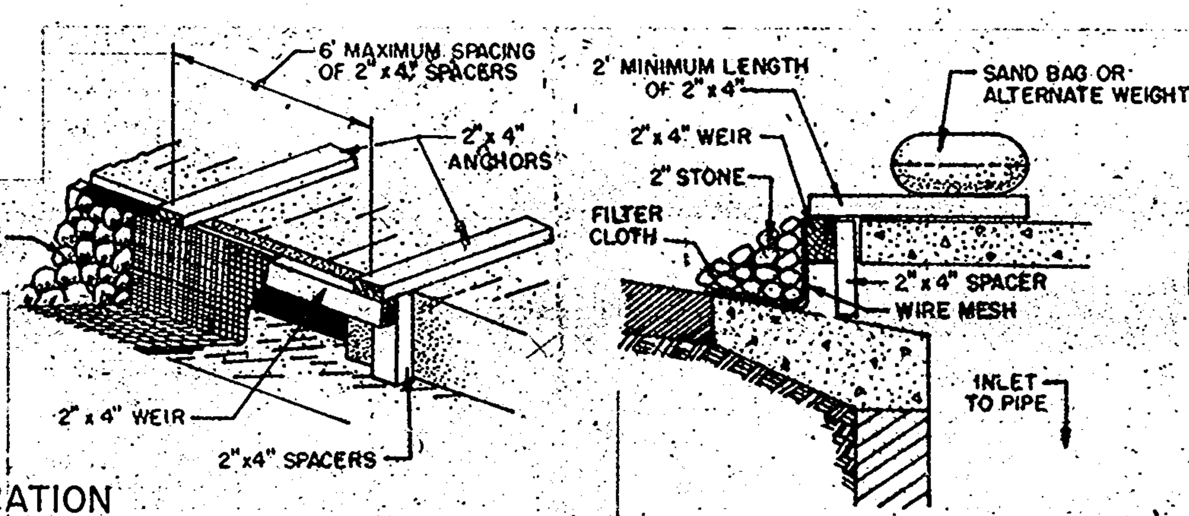
STONE OUTLET SEDIMENT TRAP V



OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

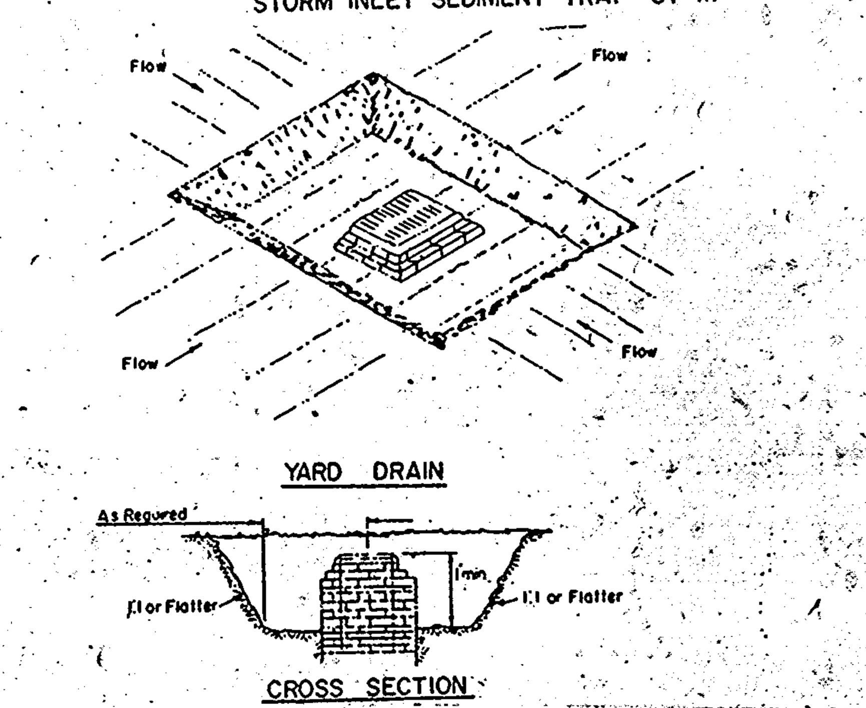
CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap or embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



CURB INLET PROTECTION DETAIL

STORM INLET SEDIMENT TRAP ST-III



CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-5-86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Approved Stephen L. [signature] 7/30/87
Signature Date

Reviewed for Howard Soil Conservation District and meets technical requirements.
[signature] 7-30-87
U.S. Soil Conservation Dist. Date

APPROVED: FOR PUBLIC WATER & PRIVATE SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd M.D. / F.F. 8-5-87.
COUNTY HEALTH OFFICER DATE

OWNER / DEVELOPER
WILDER BUILDING CORPORATION
3430 BIRCH HOLLOW ROAD
BALTIMORE, MARYLAND 21208

Waiver Reference VP-87-77

Revised 5/29/86

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PRIVATE SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
James M. [signature] 8/4/87
DIRECTOR DATE
[signature] 8-3-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
John W. [signature] 8-6-87
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE
[signature] 8-6-87
PLANNING DIRECTOR DATE

DEVELOPER'S CERTIFICATION
I 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 the Dept. of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
Joseph Wilder 3/25/86

ENGINEER'S CERTIFICATION
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.
William G. Rasch II 3/21/86
Date

STATE OF MARYLAND — WILLIAM G. RASCH II — Professional Engineers & Land Surveyor

WILDER SUBDIVISION
SEDIMENT CONTROL DETAILS
PARCELS A-2, A-3, A-4
A RESUBDIVISION OF A PORTION OF PARCEL A-1
HOENES PROPERTY
2nd ELECTION DISTRICT HOWARD COUNTY MD.
ZONED RA15 SCALE: AS SHOWN
F-86-160 APRIL, 1986

SHEET 10 OF 10
DES. A.T.R.
DRWN.
CHK. A.T.R.
J.O. NO. 5394-40

SDP-86-214

A&E BALT.