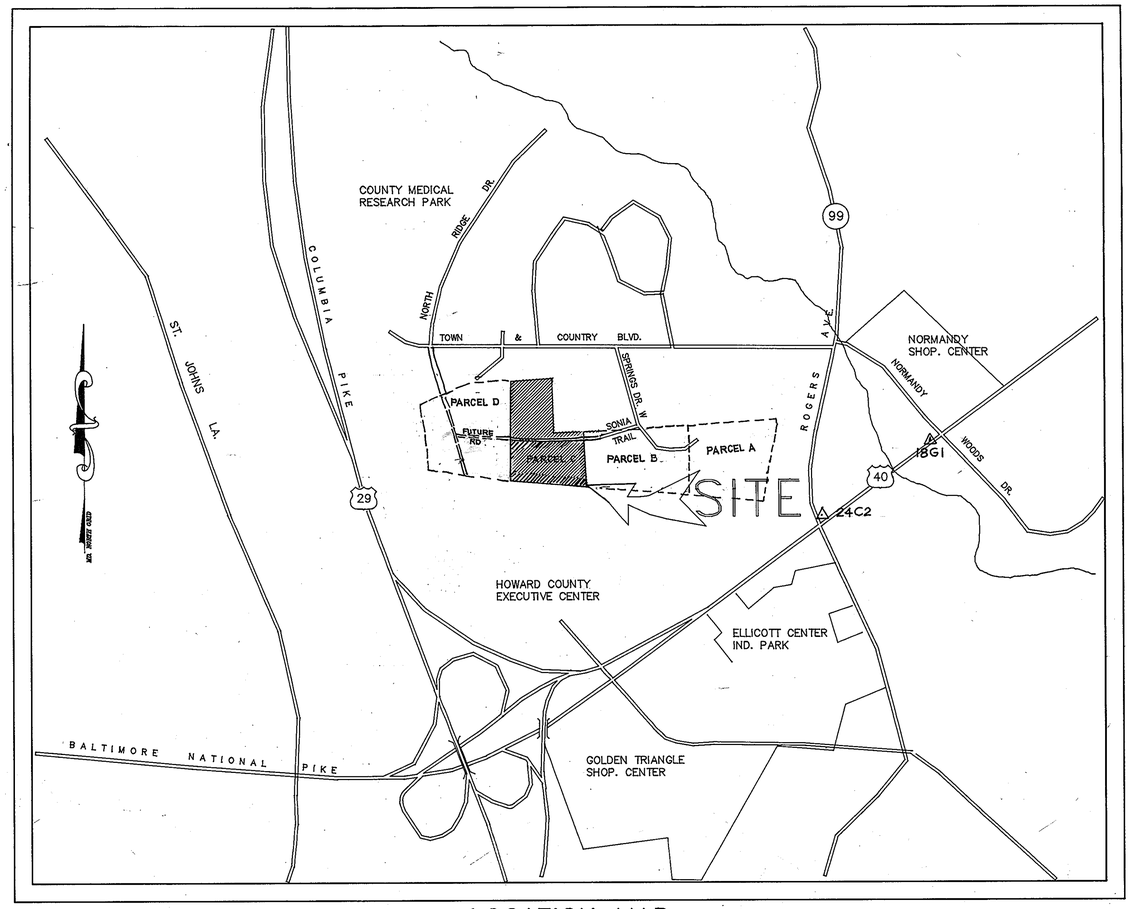
ADDRESS CHART

BLDG. NO.	UNIT NO.	ADDRESS
1	1	3385 SONIA TRAIL
	2	3387 SONIA TRAIL
	3	3389 SONIA TRAIL
	4	3391 SONIA TRAIL
	5	3393 SONIA TRAIL
	6	3395 SONIA TRAIL
	7	3397 SONIA TRAIL
	8	3399 SONIA TRAIL
2	9	3301 SONIA TRAIL
	10	3303 SONIA TRAIL
	11	3305 SONIA TRAIL
	12	3307 SONIA TRAIL
	13	3309 SONIA TRAIL
	14	3311 SONIA TRAIL
	15	3313 SONIA TRAIL
	16	3316 SONIA TRAIL
3	17	3317 SONIA TRAIL
	18	3319 SONIA TRAIL
	19	3321 SONIA TRAIL
	20	3323 SONIA TRAIL
	21	3325 SONIA TRAIL
	22	3327 SONIA TRAIL
4	23	3383 SONIA TRAIL
	24	3381 SONIA TRAIL
	25	3379 SONIA TRAIL
	26	3377 SONIA TRAIL
5	27	3375 SONIA TRAIL
	28	3373 SONIA TRAIL
	29	3371 SONIA TRAIL
	30	3369 SONIA TRAIL
	31	3367 SONIA TRAIL
	32	3365 SONIA TRAIL
	33	3363 SONIA TRAIL
	34	3361 SONIA TRAIL
6	35	3359 SONIA TRAIL
	36	3357 SONIA TRAIL
	37	3355 SONIA TRAIL
	38	3353 SONIA TRAIL
	39	3351 SONIA TRAIL
	40	3349 SONIA TRAIL
	41	3347 SONIA TRAIL
	42	3345 SONIA TRAIL
7	43	3343 SONIA TRAIL
	44	3341 SONIA TRAIL
	45	3339 SONIA TRAIL
	46	3337 SONIA TRAIL
	47	3335 SONIA TRAIL
	48	3333 SONIA TRAIL
	49	3331 SONIA TRAIL
	50	3329 SONIA TRAIL
8	51–62	3300 SONIA TRAIL
9	63–76	3310 SONIA TRAIL
10	76–86	3320 SONIA TRAIL
11	87–97	3330 SONIA TRAIL

I N D E X

SHEET NO.	
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	ROAD PROFILES, DETAILS
5	DRAINAGE AREA MAP
6	STORM WATER MANAGEMENT DETAILS
7	DRAINAGE PROFILES
8	PRIVATE WATER & SEWER PROFILE
9	UTILITY LOCATION PLAN
10	SEDIMENT CONTROL PLAN
11	SEDIMENT CONTROL PLAN
12	SEDIMENT CONTROL PLAN



LOCATION MAP
SCALE : 1" = 600'

GENERAL NOTES:

1. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HRS. IN ADVANCE OF CONSTRUCTION AT 313–3380.
2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY AT 1–800–257–7777 AT LEAST 48 HRS. PRIOR TO ANY EXCAVATION WORK.
3. PROJECT BACKGROUND.
   a. TAX MAP 17, PARCEL 711, ZONING R–A–15
   b. GROSS AREA = 9.404 ACRES
   C. AREA OF BUILDABLE LOTS = 8.544 ACRES
   d. AREA OF OPEN SPACE = 0
   e. AREA OF PUBLIC ROAD RIGHT–OF–WAY = 0.85 ACRE
   f. NO. OF PROPOSED UNITS = 97 UNITS
   g. PARCEL C WAS RECORDED UNDER F–88–143 AS PLAT NO. 7847 ON 5/20/88.
   h. SKETCH PLAN WAS APPROVED ON APRIL 9, 1992 UNDER S–92–14.
   i. PRELIMINARY PLAN WAS APPROVED ON NOV. 2, 1992 UNDER P–93–08.
   j. FINAL PLAT WAS RECORDED ON FEB 1, 1994 UNDER PLAT NO. 11112 & ~~F-93-112~~.
   k. AREA FOR SINGLE FAMILY ATTACHED UNITS PARCEL C–1 = 5.281 ACRES
      ROAD R/W = 0.86 ACRE
      TOTAL = 6.251 ACRES
      (a.) NO. OF UNITS ALLOWED = 50 PER P-93-08
      (b.) NO. OF UNITS PROPOSED = 50
      (c.) NO. OF PARKING SPACE REQUIRED = 100
      (d.) NO. OF PARKING SPACE PROVIDED = 100
   l. AREA FOR APARTMENTS, PARCEL C–2 = 3.263 ACRES
      (a.) NO. OF UNITS ALLOWED = 47 PER P-93-08
      (b.) NO. OF UNITS PROPOSED = 47
      (c.) NO. OF PARKING SPACE REQUIRED = 94
      (d.) NO. OF PARKING SPACE PROVIDED = 94 INCLUDES 4 HANDICAPPED.
4. BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED BY JOHN MELLEMA ON DEC. 1992.
5. HORIZONTAL AND VERTICAL CONTROLS BASED ON MD. STATE COORDINATE SYSTEM NAD 83 CONTROL STA. 24C2 AND 18G1
6. STORMWATER MANAGEMENT FACILITY WILL BE UNDERGROUND TRENCH.
7. EXISTING UTILITIES BASED ON HOWARD COUNTY AS BUILT PLANS AND THE SURVEY BY JOHN MELLEMA.
8. **ALL APARTMENTS WILL BE SPRINKLERED.**

SITE ANALYSIS

PARCEL C–1 SINGLE FAMILY ATTACHED

	AREA, S.F.	% COVERAGE
SITE	230,040 S.F.	
BUILDING	34,204 S.F.	14.9 %
PARKING LOT	50,215 S.F.	21.8 %
OPEN SPACE	145,621 S.F.	63.3 %

OPEN SPACE COMPOSITION
AREA = 145,621 S.F.
AREA OF FLOODPLAIN = 0
AREA OF SWM FACILITY = 0 – SWM FACILITY IS UNDERGROUND TRENCH
NET AREA = 145,621 S.F.

PARCEL C–2 APARTMENTS

	AREA, S.F.	% COVERAGE
SITE	142,136 S.F.	
BUILDING	17,200 S.F.	12.1 %
PARKING LOT	33,234 S.F.	23.4 %
OPEN SPACE	86,780 S.F.	61.05 %

NOTE: BUILDING #4 WILL BE GARAGE. UNITS ONE CAR WILL PARK IN GARAGE AND ONE CAR WILL PARK IN DRIVEWAY.

WILDER SUBDIVISION PARCEL C–1, C–2
A RESUBDIVISION OF PARCEL C
SITE DEVELOPMENT PLAN
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 3/25/94
CHIEF, DIVISION OF LAND DEVELOPMENT & RULE RESEARCH — DATE 3/23/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEM AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/11/94
CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

STATE OF MARYLAND — CHARLES J. CORBIN — No. 10820 — REGISTERED PROFESSIONAL ENGINEER — 9/17/97 REV #1

DES : MLL				
DRN : AVG				
CHK : MLL				
DATE : 7·1·93	BY: J.A.U.	NO. 1	REVISE FOOTPRINTS FOR BLDG. NO. 1 AND BLDG. NO. 4	DATE 9·17·97

COVER1.DWG

Doria Engineering Inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410–465–0400

STATE OF MARYLAND — RICHARD D. LORIA — No. 10820 — REGISTERED PROFESSIONAL ENGINEER

OWNER :
WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

DEVELOPER :
WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21153

COVER SHEET
WILDER SUBDIVISION PARCEL C–1 & C–2
A RESUBDIVISION OF PARCEL C
TAX MAP 17 PARCEL 711
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 12

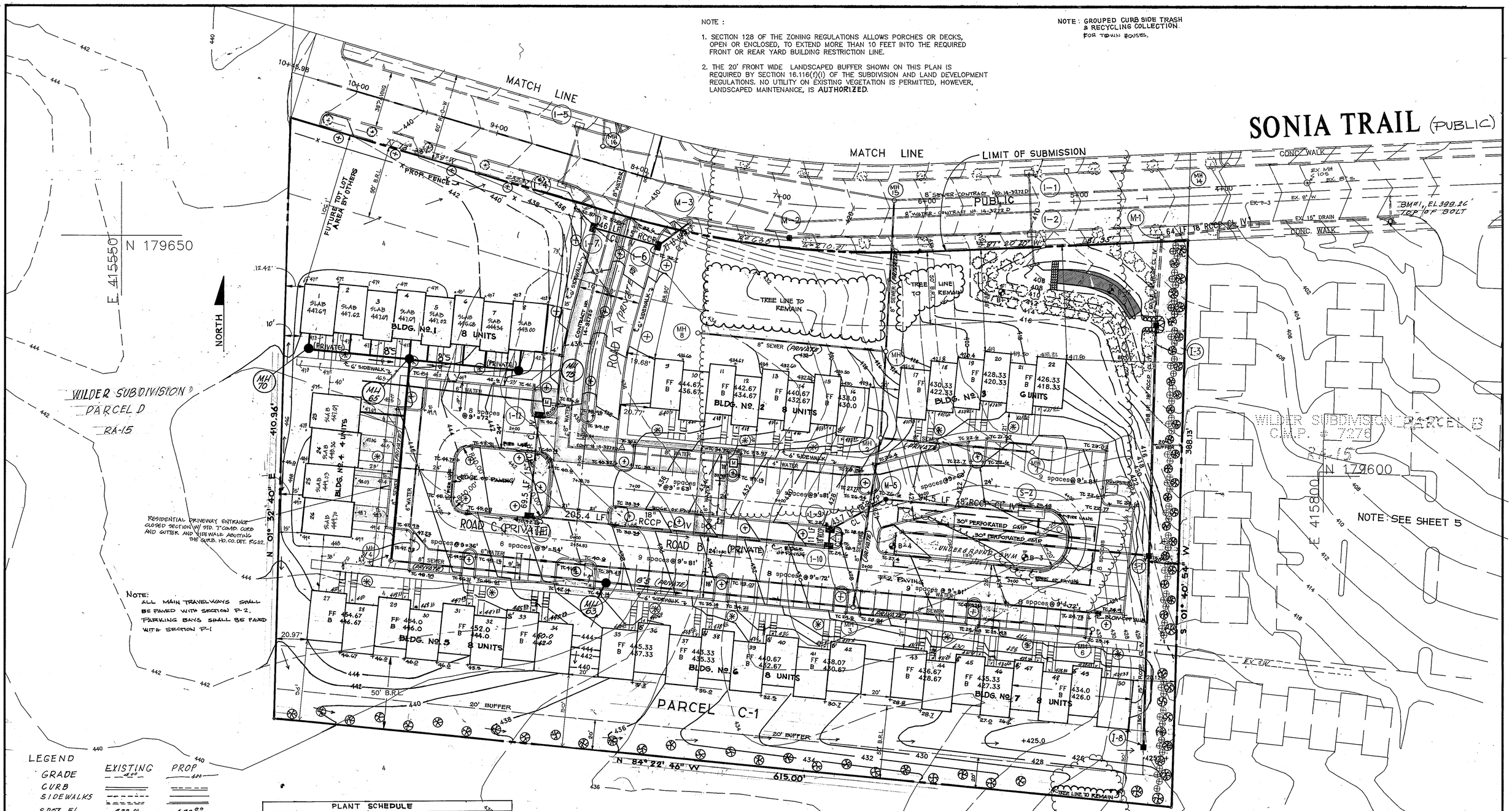
SDP-93-96

NOTE :

1. SECTION 128 OF THE ZONING REGULATIONS ALLOWS PORCHES OR DECKS, OPEN OR ENCLOSED, TO EXTEND MORE THAN 10 FEET INTO THE REQUIRED FRONT OR REAR YARD BUILDING RESTRICTION LINE.

2. THE 20' FRONT WIDE LANDSCAPED BUFFER SHOWN ON THIS PLAN IS REQUIRED BY SECTION 16.116(f)(i) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. NO UTILITY ON EXISTING VEGETATION IS PERMITTED, HOWEVER, LANDSCAPED MAINTENANCE, IS AUTHORIZED.

NOTE : GROUPED CURB SIDE TRASH & RECYCLING COLLECTION FOR TOWN HOUSES.



LEGEND

	EXISTING	PROP
GRADE	400	400
CURB		
SIDEWALKS		
SPOT EL	422.00	422.00

△ PARKING LOT LIGHTING

PLANT SCHEDULE

SYMBOLS	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
⊕	PYRUS CALLERYANA 'REDSPIRE'	REDSPIRE PEAR	48	2½" CAL.
⊛	PINUS STROBUS	WHITE PINE	68	
⊕⊕	ILEX GLABRA "COMPACTA"	INK BERRY	57	2½'-3' CAL. B&B
⊛	ACER RUBRUM "OCTOBER GLORY"	OCTOBER GLORY MAPLE	73	2½ CAL B&B

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/23/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

J.A.U.	1	REVISE FOOTPRINT FOR BLDG. NO.1 AND BLDG. NO.4	9-17-97
BY.	NO.	DESCRIPTION REVISION	DATE

SUBDIVISION NAME: WILDER SUBDIVISION PARCEL C-1&C-2

SECTION/AREA | LOT NO.

PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		R-A-15	17	2nd.	6026

WATER CODE F03 — SEWER CODE 1453600

DESIGNED MLL — DRAWN GUS — CHECKED MLL — DATE 3·30·93

SITE DEVELOPMENT PLAN

WILDER SUBDIVISION PARCEL C-1&C-2, A RESUBDIVISION OF PARCEL C

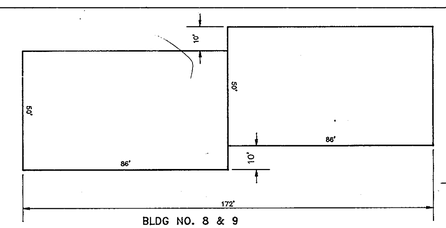
OWNER-DEVELOPER : WILDER BUILDING CORPORATION, 1514 NEAR THICKET LANE, STEVENSON, MD. 21152

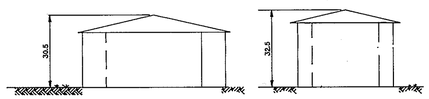
SCALE 1" = 30' — DWG NO. 2 of 12 — JOB NO. — FILE

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400

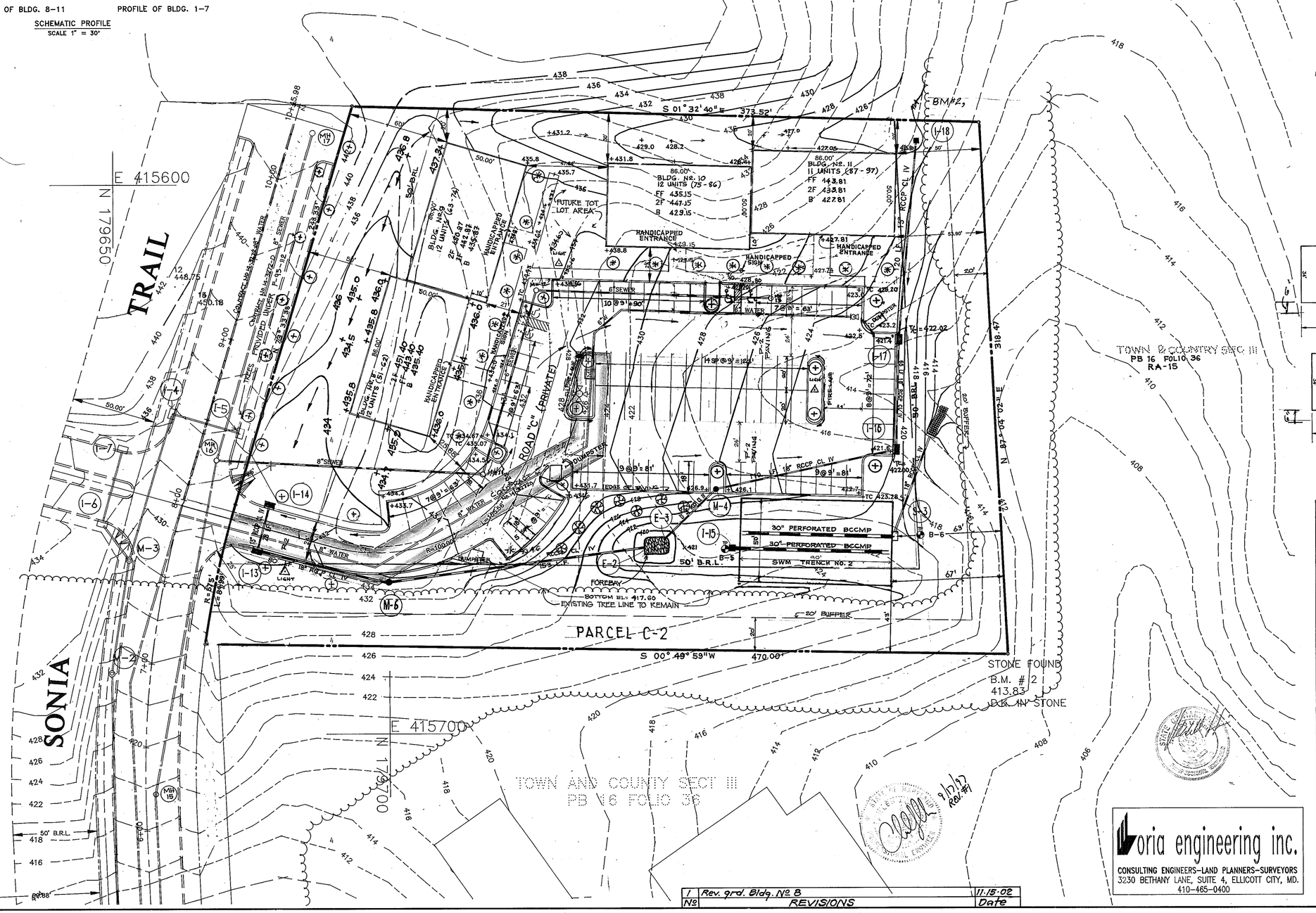
SDP-93-96

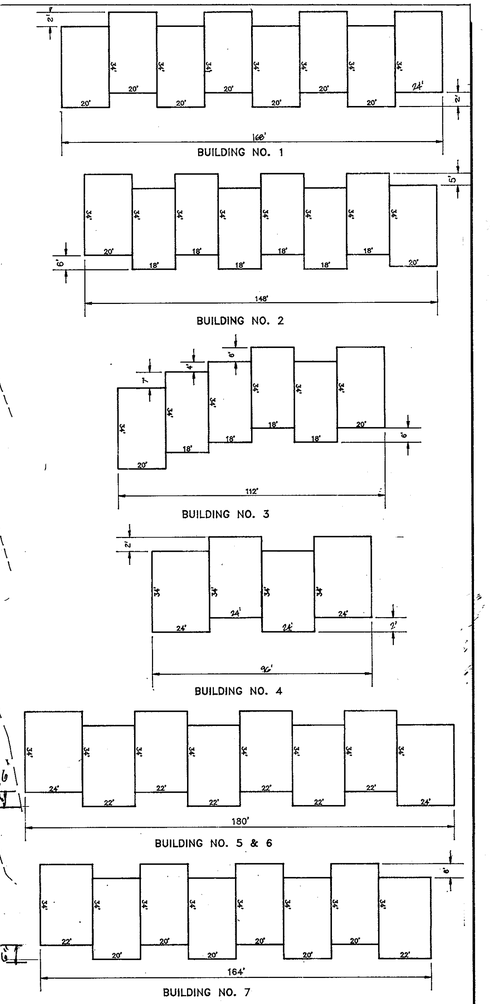
SDP-C1.DWG





SCHEMATIC PROFILE
SCALE 1" = 30'





BY	NO.	REVISION	DATE
J.A.U.	1	REVISE FOOTPRINT BLDG. NO. 1 AND BLDG. NO. 4	9.17.97

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/25/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

SUBDIVISION NAME	SECTION/AREA	LOT NO.
WILDER SUBDIVISION PARCEL C-1 & C-2		

PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		RA-15	17	2ND	

WATER CODE	SEWER CODE
F03	1453600

DESIGNED: MLL	SITE DEVELOPMENT PLAN	SCALE: 1" = 30'
DRAWN: GJS	WILDER SUBDIVISION PARCEL C-1 & C-2	DWG NO.: 3 OF 12
CHECKED: MLL	A RESUBDIVISION OF PARCEL C	JOB NO.:
DATE: 7·1·93	OWNER-DEVELOPER : WILDER BUILDING CORPORATION, 1514 NEAR THICKET LANE, STEVENSON, MD. 21152	FILE

oria engineering inc.
CONSULTING ENGINEERS-LAND PLANNERS-SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400

Nº	REVISIONS	Date
1	Rev. grd. Bldg. Nº 8	11.15.02

SDP-C2.DWG

SDP-93-96

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

COUNTY HEALTH OFFICER	DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR	DATE 3/25/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE 3/23/94

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

DIRECTOR	DATE 3/11/94
CHIEF, BUREAU OF ENGINEERING	DATE 3/10/94

SUBDIVISION NAME	SECTION/AREA	LOT NO.
WILDER SUBDIVISION PARCEL C-1&C-2		

PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		R-A-15	17	2ND	6026

WATER CODE	SEWER CODE
F03	1453600

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410–465–0400

DESIGNED	MLL
DRAWN	AVG
CHECKED	MLL
DATE	7·1·93

DRAINAGE AREA MAP
WILDER SUBDIVISION PARCEL C-1&C-2
A RESUBDIVISION OF PARCEL C

WILDER BUILDING CORPORATION
1514 NEAR THICKET LANE
STEVENSON, MD. 21152

SCALE 1" = 50'
SHEET NO. 5 OF 12

SDP-93-96

DP-1-MAP.DWG

Boring # B-3
Job # 92222A

SAMPLER
Datum ____ Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman W. Stephens
Surf. Elev. ____ Ft. Hammer Drop 30 In. Rock Core Dia. – Inspector ____
Date Started 12-8-92 Pipe Size 2.0 In. Boring Method HSA Date Completed 12-8-92

SOIL DESCRIPTION (Color, Moisture, Density/Consistency, Size, Proportions)	STRA. DEPTH	SPT BLKS	SAMPLE CON	Blows/6"	MOI.	REC.	BORING & SAMPLING NOTES
		0.0					
Brown moist soft fine sandy silt with trace of rock fragments and mica (ML-Loam)	2.5		D	3-2-2	1	14"	10" Topsoil
Brown moist dense sand with some rock fragments, trace of silt (SM-Loamy Sand)	7.5	5	D	13-24-21	2	16"	
Brown moist very dense silty sand with some mica, trace to some rock fragments (SM – Sand)		10	D	51/3"	3	3"	Water on Tip Spooon
		15	D	39-51/6"	4	10"	
	21.2	20	D	18-29-51/2"	5	15"	
Bottom of boring at 21.2'							

SAMPLER TYPE: DRIVEN SPLIT SPOON; UNLESS OTHERWISE NOTED; PT-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE

SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST

GROUND WATER DEPTH: AT COMPLETION ___ dry ___ FT.; AFTER 24 HRS. dry FT.; AFTER ___ HRS. ___ FT.

BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONTINUOUS FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

Boring # B-4
Job # 92222A

SAMPLER
Datum ____ Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman W. Stephens
Surf. Elev. ____ Ft. Hammer Drop 30 In. Rock Core Dia. – Inspector ____
Date Started 12-8-92 Pipe Size 2.0 In. Boring Method HSA Date Completed 12-8-92

SOIL DESCRIPTION (Color, Moisture, Density/Consistency, Size, Proportions)	STRA. DEPTH	SPT BLKS	SAMPLE CON	Blows/6"	MOI.	REC.	BORING & SAMPLING NOTES
		0.0					
SURFACE							
Brown moist medium stiff sandy silt with trace of mica, with roots, and material (ML – Loam)	2.5		D	2-3-6	1	8"	7" Topsoil
Brown moist loose sand with some silt, trace of rock fragments (SM-Sand)	7.5	5	D	5-5-5	2	14"	
Brown moist very stiff micaceous sandy silt with trace of rock fragments (SM – SM, Sand)		10	D	9-11-13	3	16"	
		15	D	18-25-25	4	16	Water encountered at 20.0' on Rods
Brown moist medium dense silty sand with yellow sand lenses (SM-Sand)	17.5						
	21.5	20	D	11-12-11	5	16"	
Bottom of boring at 21.5'							

SAMPLER TYPE: DRIVEN SPLIT SPOON; UNLESS OTHERWISE NOTED; PT-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE

SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST

GROUND WATER DEPTH: AT COMPLETION 15.0 FT.; AFTER 24 HRS. 14.5 FT.; AFTER ___ HRS. ___ FT.

BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONTINUOUS FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

Boring # B-5
Job # 92222A

SAMPLER
Datum ____ Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman W. Stephens
Surf. Elev. ____ Ft. Hammer Drop 30 In. Rock Core Dia. – Inspector ____
Date Started 12-8-92 Pipe Size 2.0 In. Boring Method HSA Date Completed 12-8-92

SOIL DESCRIPTION (Color, Moisture, Density/Consistency, Size, Proportions)	STRA. DEPTH	SPT BLKS	SAMPLE CON	Blows/6"	MOI.	REC.	BORING & SAMPLING NOTES
		0.0					
SURFACE							
Brown moist medium stiff silt with trace of clay	2.5		I	2-3-4	1	16	12" Topsoil
Brown moist very stiff micaceous sandy silt (ML – Loam)	7.5	5	D	6-9-9	2	14"	
Brown moist medium dense silty fine sand with trace of rock fragments and mica (SM – Loamy Sand)		10	D	5-5-7	3	16"	
		15	D	13-15-15	4	16	No water
		20	D	10-12-16	5	16"	
Bottom of boring at 21.5'	21.5						

SAMPLER TYPE: DRIVEN SPLIT SPOON; UNLESS OTHERWISE NOTED; PT-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE

SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST

GROUND WATER DEPTH: AT COMPLETION ___ dry ___ FT.; AFTER 24 HRS. dry FT.; AFTER ___ HRS. ___ FT.

BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONTINUOUS FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

Boring # B-6
Job # 92222A

SAMPLER
Datum ____ Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman W. Stephens
Surf. Elev. ____ Ft. Hammer Drop 30 In. Rock Core Dia. – Inspector ____
Date Started 12-8-92 Pipe Size 2.0 In. Boring Method HSA Date Completed 12-8-92

SOIL DESCRIPTION (Color, Moisture, Density/Consistency, Size, Proportions)	STRA. DEPTH	SPT BLKS	SAMPLE CON	Blows/6"	MOI.	REC.	BORING & SAMPLING NOTES
		0.0					
SURFACE							
Brown moist medium stiff silt with some fine sand, trace of roots	2.5		I	2-3-3	1	17"	12" topsoil
Brown moist very stiff fine sandy silt with some mica (ML – Loam)	8.0	5	D	11-9-11	2	16"	
Brown, grayish brown moist medium dense to very dense silty sand with traces of rock fragments and mica (SM – Loamy Sand)		10	D	10-15-11	3	16"	
		15	D	13-16-23	4	15"	No water
	20.1	20	D	51/1"	5	1"	
Bottom of boring at 20.1'							

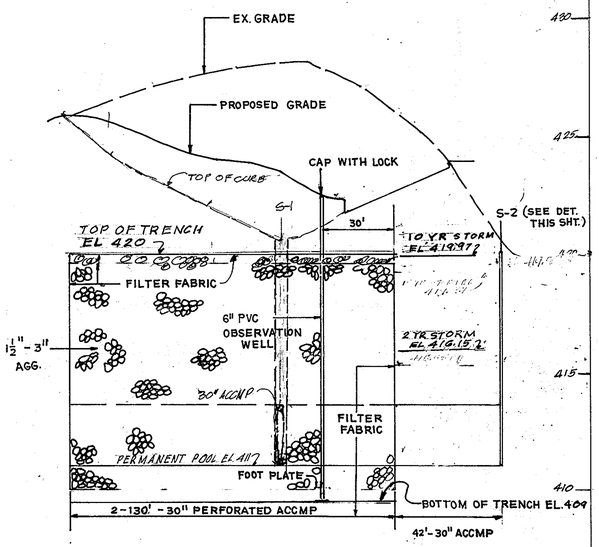
SAMPLER TYPE: DRIVEN SPLIT SPOON; UNLESS OTHERWISE NOTED; PT-PRESSED SHELBY TUBE; CA-CONTINUOUS FLIGHT AUGER; RC-ROCK CORE

SAMPLE CONDITIONS: D-DISINTEGRATED; I-INTACT; U-UNDISTURBED; L-LOST

GROUND WATER DEPTH: AT COMPLETION ___ dry ___ FT.; AFTER 24 HRS. dry FT.; AFTER ___ HRS. ___ FT.

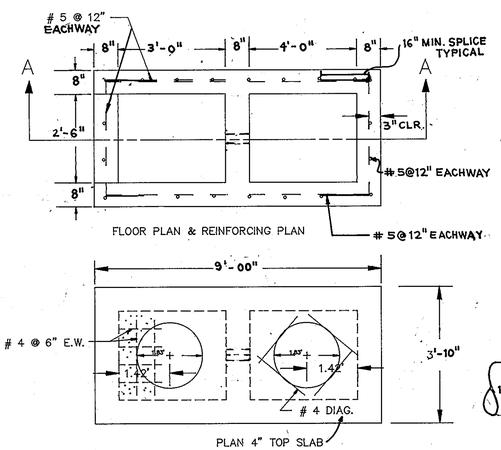
BORING METHOD: HSA-HOLLOW STEM AUGERS; CFA-CONTINUOUS FLIGHT AUGERS; DC-DRIVING CASING; MD-MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



PROFILE THRU CENTERLINE OF TRENCH NO. 1

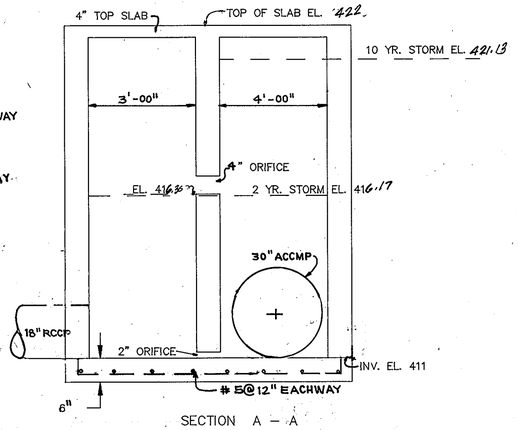
SCALE 1" = 30' HOR.
1" = 3' VER.



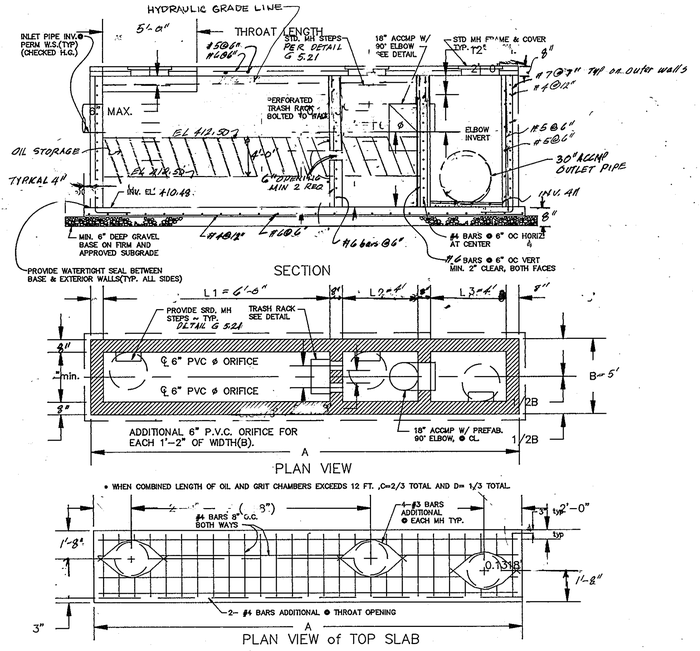
FLOOR PLAN & REINFORCING PLAN

PLAN STRUCTURES S-1 & S-3

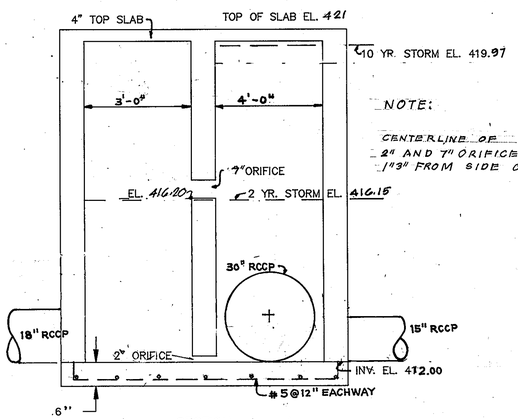
SCALE 1:20



SECTION A – A
STRUCTURE S-3
SCALE 1:20

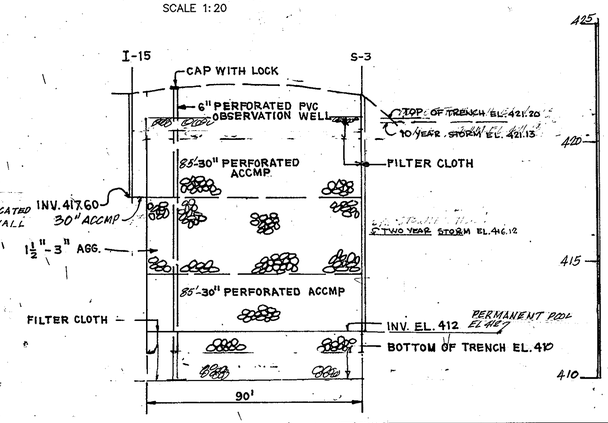


WATER QUALITY CONTROL STRUCTURE S-1
SCALE : 1/4" = 1'-0".



NOTE:
CENTERLINE OF 2" AND 7" ORIFICE LOCATED 1'-3" FROM SIDE OF WALL

SECTION A – A
STRUCTURE S-2
SCALE 1:20



PROFILE THRU CENTERLINE OF TRENCH NO. 2
SCALE 1" = 30' HOR.
1" = 3' VER.

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/25/94

CHIEF, DIVISION OF ~~LAND DEVELOPMENT~~ AND RESEARCH — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

M.K.

STATE OF MARYLAND — NO. 9293 — REGISTERED PROFESSIONAL ENGINEER

SUBDIVISION NAME	SECTION/AREA	LOT NO.
WILDER SUBDIVISION PARCEL C-1&C-2, A SUBDIVISION OF PARCEL C		

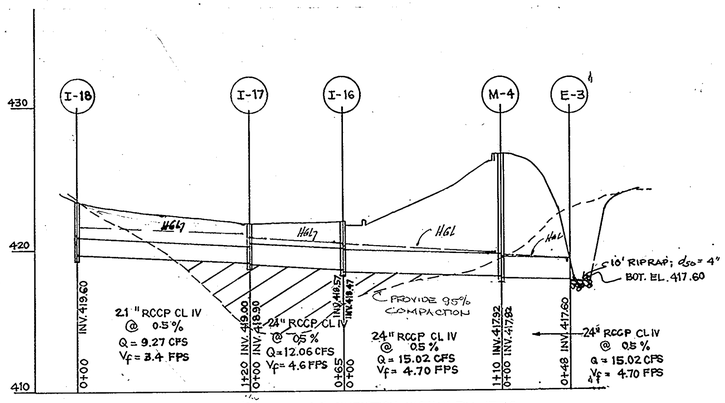
PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		R-A-15	17	2ND	6026

WATER CODE F03 — SEWER CODE 1453600

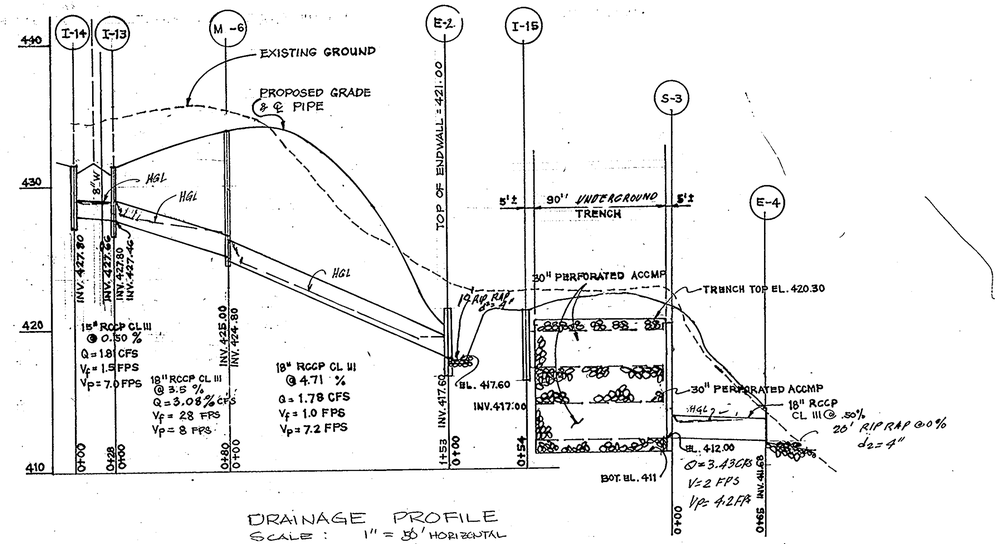
DESIGNED MLL	STORMWATER MANAGEMENT DETAILS	SCALE AS SHOWN
DRAWN	WILDER SUBDIVISION PARCEL C-1&C-2, A RESUBDIVISION OF PARCEL C	SHEET NO. 6 OF 12
CHECKED MLL	OWNER-DEVELOPER : WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21152	JOB NO.
DATE 7·1·93		FILE

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400

SDP-93-96



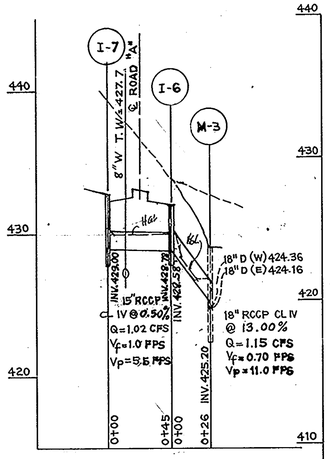
DRAINAGE PROFILE
SCALE : 1" = 50' HORIZONTAL
1" = 5' VERTICAL

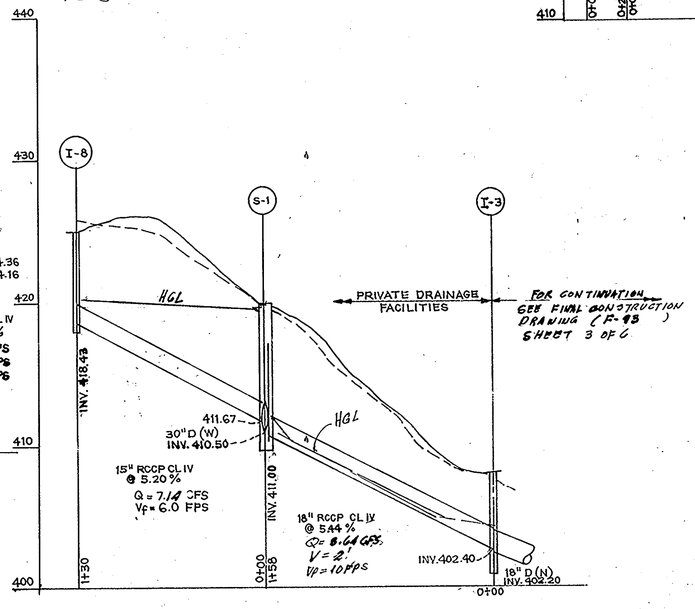


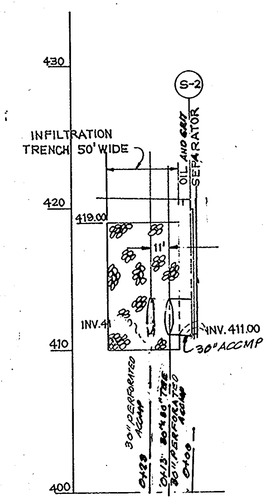
DRAINAGE PROFILE
SCALE : 1" = 50' HORIZONTAL
1" = 5' VERTICAL

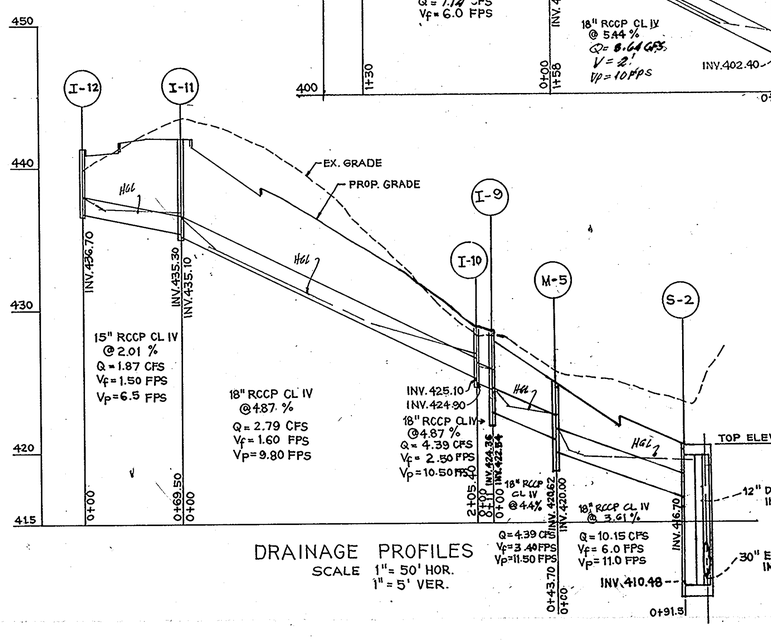
STRUCTURE SCHEDULE

NO.	TYPE	INVERT IN	INVERT OUT	TOP EL.	REMARKS	LOCATION
M-6	STD. MANHOLE	425.00	424.80	434.00	G.5.01	SEE PLAN
I-6	A-5	428.78	428.58	432.70	SD 4.01 W = 2'6"	STA. 0+75 RMA A, 22.83R
I-7	A-10		429.00	432.87	SD 4.02 W = 2'6"	STA. 0+45 Road A, 22.83L
I-8	K-INLET		418.43	425.00	SD 4.18	See Plan
I-9	A-5 w/ DEFLECTOR	424.36	422.54	428.20	SD 4.01 & SD 4.03 W = 2'6"	18" LT. RD "C" STA. 5+64
I-11	A-10	435.30	435.10	442.25	SD 4.02 W = 2'6"	18" LT. RD "C" STA. 0+35
I-12	A-10		436.70	440.40	SD 4.02 W = 2'6"	18" RT. RD "C" STA. 2+16
I-13	A-5	427.66	427.46	431.50	SD 4.01 W = 2'6"	0+50 RD C 13.83' R
I-14	A-10		427.80	431.50	SD 4.02 W = 2'6"	0+50 RD C 19.13' L
I-15	K INLET		417.00	421.00	SD 4.18	See Plan
I-16	A-5	418.57	418.47	422.16	SD 4.01 W = 2'6"	See Plan
I-17	A-5	419.00	418.90	422.62	SD 4.01 W = 2'6"	See Plan
I-18	K INLET		419.60	423.05	SD 4.18	See Plan
E-2	CONCRETE END SECTION	417.60		419.18	SD 5.51	See Plan
E-3	CONCRETE END SECTION	417.60		419.18	SD 5.51	See Plan
E-4	CONCRETE END SECTION	411.68		413.26	SD 5.51	See Plan
M-4	STD. MH	417.92	417.82	429.50	G.5.01	See Plan
M-5	STD. MH	420.62	420.00	425.82	G.5.01	6' RT. RD "B" STA. 0+28
S-1	OIL & GRIT SEP. W/ A-5 INLET	410.48	411.0	420.48	SEE DETAIL	4'22 RD B 15' L
S-2	SPECIAL	411.67	411	421.00	SEE DETAIL	See Plan
S-3	SPECIAL	412	412.00	422.6	SEE DETAIL	See Plan
I-10	A-5 w/ deflector	425.10	424.90	429.16	SD 4.01 & 4.03 W = 2'6"	12' LT. RD "B" STA. 1+72









DRAINAGE PROFILES
SCALE 1" = 50' HOR.
1" = 5' VER.

OPERATION AND MAINTENANCE SCHEDULE
PRIVATE STORMWATER MANAGEMENT TRENCHES

I. ROUTINE MAINTENANCE

A. INSPECTION

The trench will be inspected several times in the first few months of operation, and then annually thereafter. The inspections will be conducted after large storms to check for surface ponding that might indicate local or widespread clogging. Water levels in the observation well wil be recorded over several days to check trench drainage.

B. BUFFER MAINTENANCE

The condition of the grass buffer strip will be inspected annually. Growth shall be vigorous and dense. Bare spots, eroded areas or 'burnt out areas' (from road salt or gasoline spills) will be re-seeded or resodded. Watering and/or fertilization will be provided during the first few months after the strip is established, and may be periodically needed in times of drought.

C. SEDIMENT REMOVAL

The pre-treatment inlets of underground trenches will be checked periodically and cleaned out when sediment depletes more than 10% of available capacity. This will be done manually or by a vacuum pump. Inlet and outlet pipes will be checked for vandalism.

D. TREE PRUNING

Adjacent trees will be trimmed if their drip line (i.e. the reach of the brances) extends over a surface trench so that tree leaves do not clog the trench. In addition, pioneer trees that start to grow in the vicinity of the trench will be removed immediately thereby avoiding root pucture of the filter fabric through which sediment might enter the structure.

II. NON-ROUTINE MAINTENANCE

In the event of a failure of the underground trench occurs, the following measures will be taken:

1. Remove the topsoil/vegetation layer.
2. Remove the protective plastic layer.
3. Remove the entire stone aggregate layer.
4. Remove the bottom filter fabric.

Then, the subsoil layer must be tilled to promote better infiltration, and each layer must be replaced.

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400

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

COUNTY HEALTH OFFICER — DATE 7/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/25/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND REGULATORY ADMIN. — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

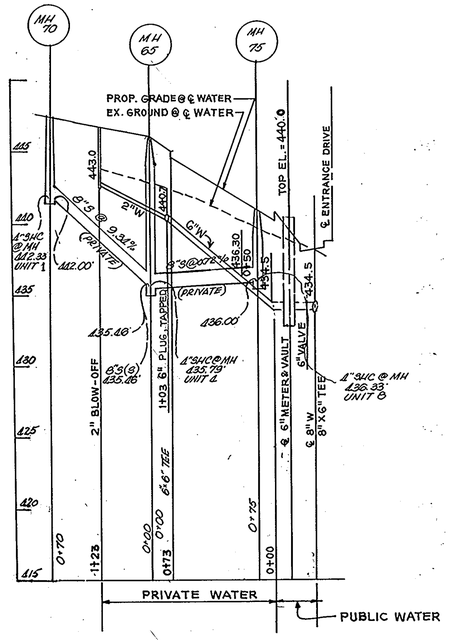
SUBDIVISION NAME	SECTION/AREA	LOT NO.
WILDER SUBDIVISION PARCEL C-1&C-2, & C-[illegible]		

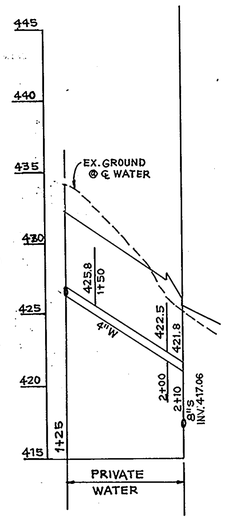
PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		R-A-15	17	2ND	6026

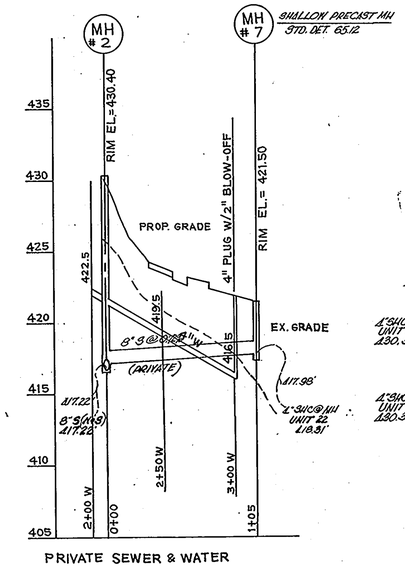
WATER CODE	SEWER CODE
F03	1453600

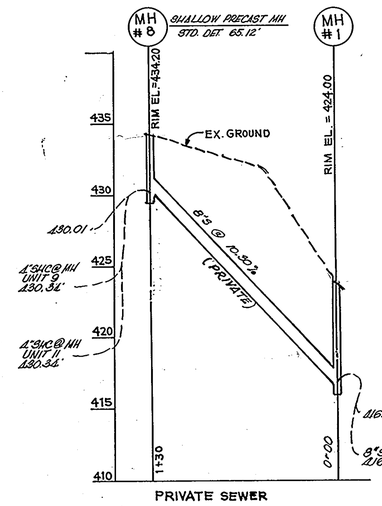
DESIGNED: MLL	WILDER SUBDIVISION PARCEL C-1&C-2. A RESUBDIVISION OF PARCEL C	SCALE: 1" = 30'
DRAWN: GUS		SHEET NO. 7 OF 12
CHECKED: MLL	OWNER-DEVELOPER : WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21152	JOB NO.
DATE: 7·1·93		FILE

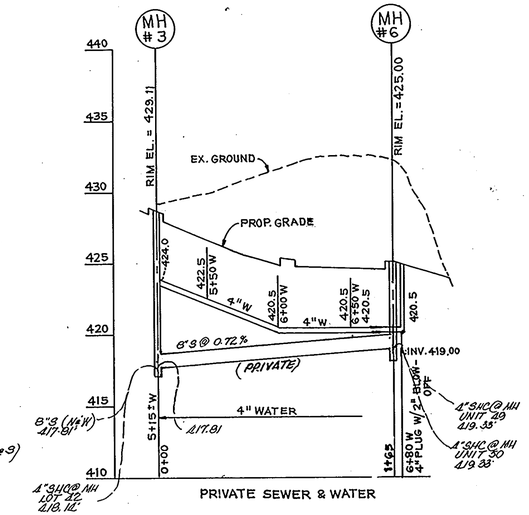
SDP-93-96

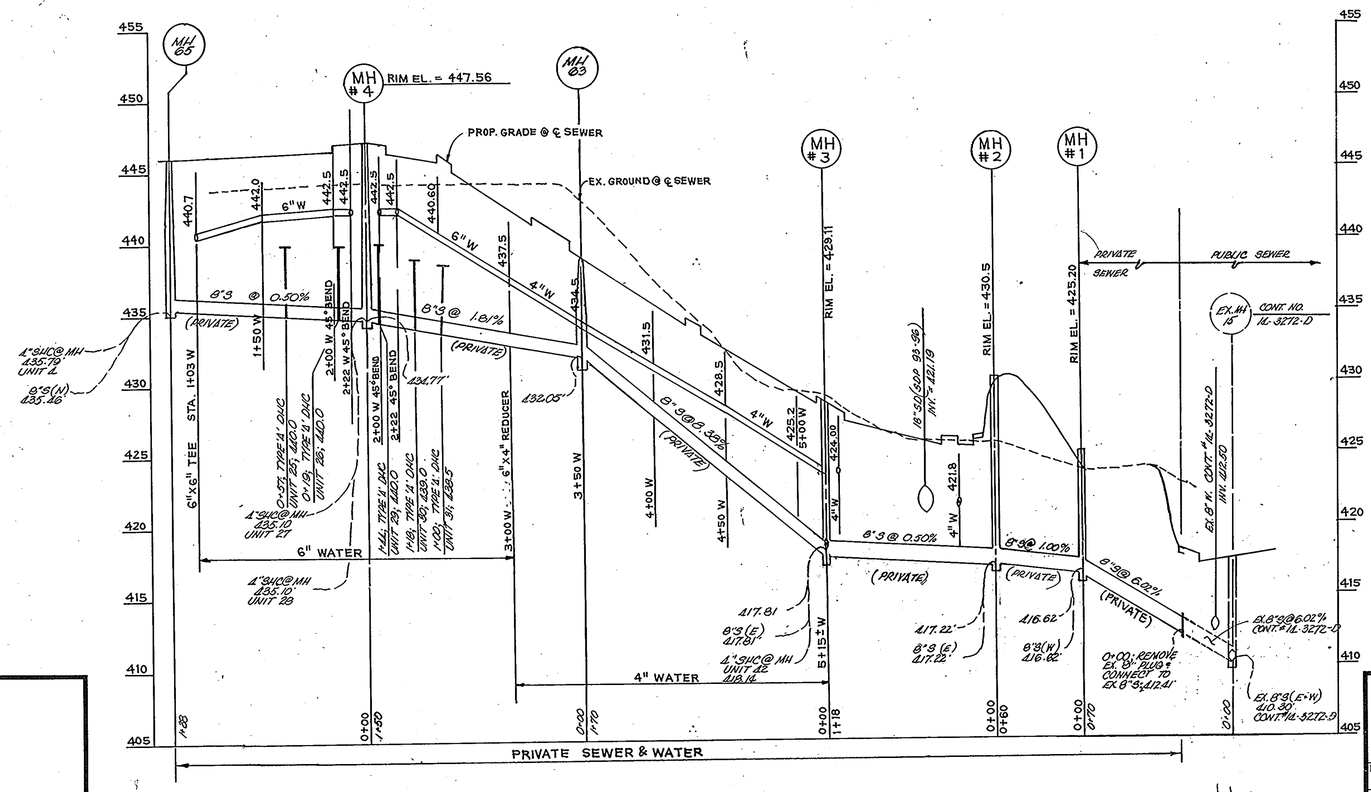












NOTE: UNLESS OTHERWISE NOTED ALL WATER MAIN ELEVATIONS SHOWN REFER TO OUTSIDE TOP OF PIPE.

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/23/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND REGULATION — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

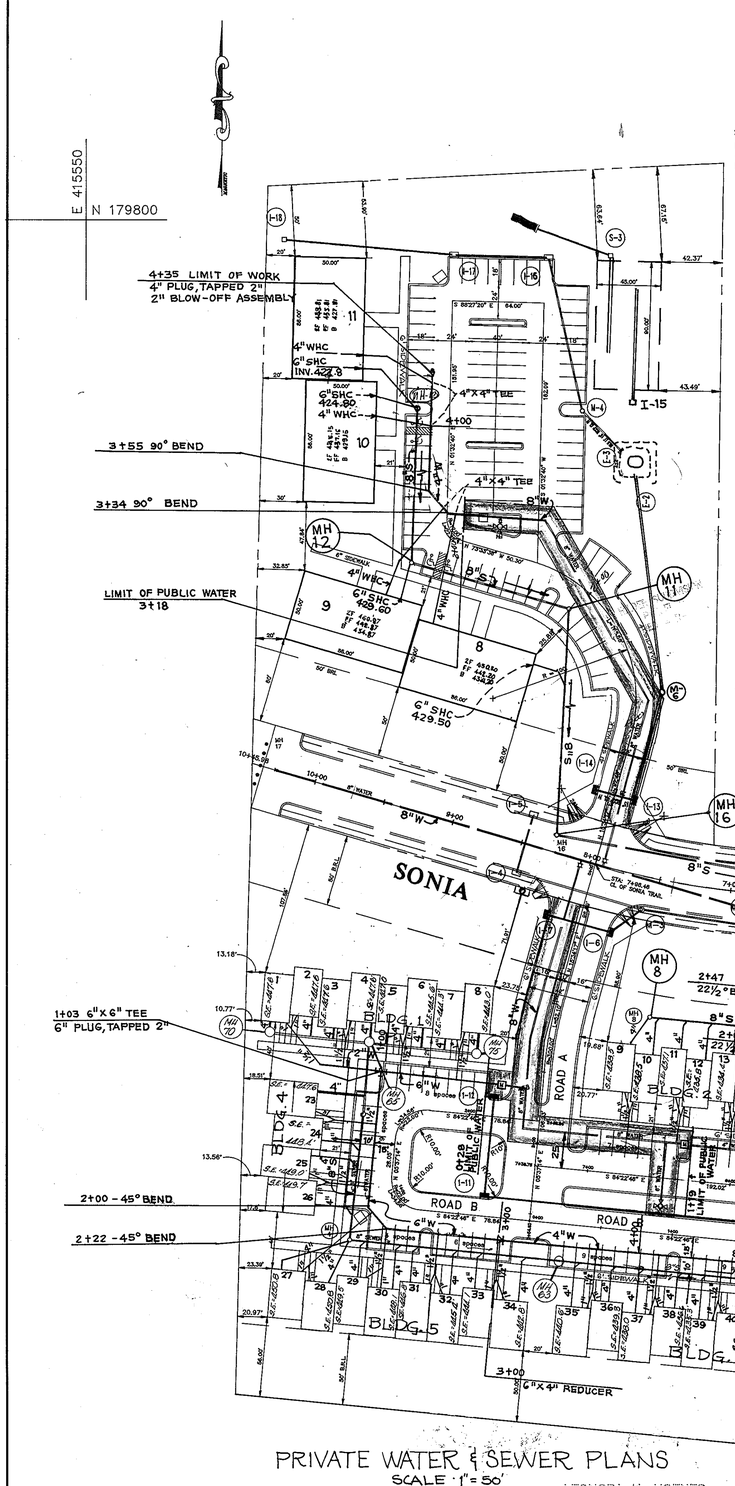
CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

oria engineering inc.
CONSULTING ENGINEERS * LAND PLANNERS * SURVEYORS
3230 BETHANY LANE, SUITE 4
ELLICOTT CITY, MARYLAND 21043
TEL (301) 465-0400

PRIVATE WATER & SEWER PROFILES
SCALE : 1" = 50' HOR.
1" = 5' VER.

SUBDIVISION NAME: WILDER SUBDIVISION PARCEL C-1&C-2, 3 A RESUBDIVISION OF PARCEL-C		SECTION/AREA	LOT NO.		SHEET NO.
PLAT NO. 11112	BLOCK NO.	ZONE R-A-15	TAX-ZONE 17	ELECT. DIST. 2ND	CENSUS TR 6026
WATER CODE F03		SEWER CODE 1453600			
DESIGNED M L L	WILDER SUBDIVISION PARCEL C-1&C-2, 3 A RESUBDIVISION OF PARCEL C				SCALE : AS SHOWN
DRAWN A V G					SHEET 8 OF 12
CHECKED M L L					JOB NO.
DATE 7-1-93	OWNER: WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21153				FILE

SDP-93-96


E 415550
N 179800
4+35 LIMIT OF WORK
4" PLUG, TAPPED 2"
2" BLOW-OFF ASSEMBLY
3+55 90° BEND
3+34 90° BEND
LIMIT OF PUBLIC WATER
3+18
4" WHC
6" SHC
INV. 422.8
6" SHC
424.80
4" WHC
4+00
4"X4" BE
4"X4" TEE
8" WHC
4" WHC
6" SHC
428.60
6" SHC
429.50
MH 12
MH 11
MH 16
PUBLIC SEWER
MH 15
PUBLIC SEWER
SONIA
TRAIL
MH 8
2+47
22½° BEND
2+05
22½° BEND
1+03 6"X6" TEE
6" PLUG, TAPPED 2"
2+00 - 45° BEND
2+22 - 45° BEND
ROAD A
ROAD B
ROAD
BLDG. 1
BLDG. 2
BLDG. 3
BLDG. 4
BLDG. 5
BLDG. 6
BLDG. 7
BLDG. 8
WILDER SUBDIVISION
C.M.P. # 7278
N 179600
E 415800
6+80 4" PLUG, TAPPED 2"
2" BLOW-OFF ASSEMBLY
2"X4" REDUCER
3+00
8"W
8"S
8" W
PUBLIC WALK
CONC. WALK
EX. 15' DRAIN
EX. MH 105
EX. MH 14
EX. MH 15
EX. MH 16
STA. 7+88.44
℄ OF SONIA TRAIL
90° BEND
PUBLIC WATER
LIMIT OF PUBLIC WATER
2+50
S 84°22'48" E
N 67°02'48" W
S 84°22'48" E
N 67°02'48" W
S 88°20'20" E
N 17°33'08" W
N 50°30'
S 50°30'
N 17°33'08" W
S 17°33'08" E
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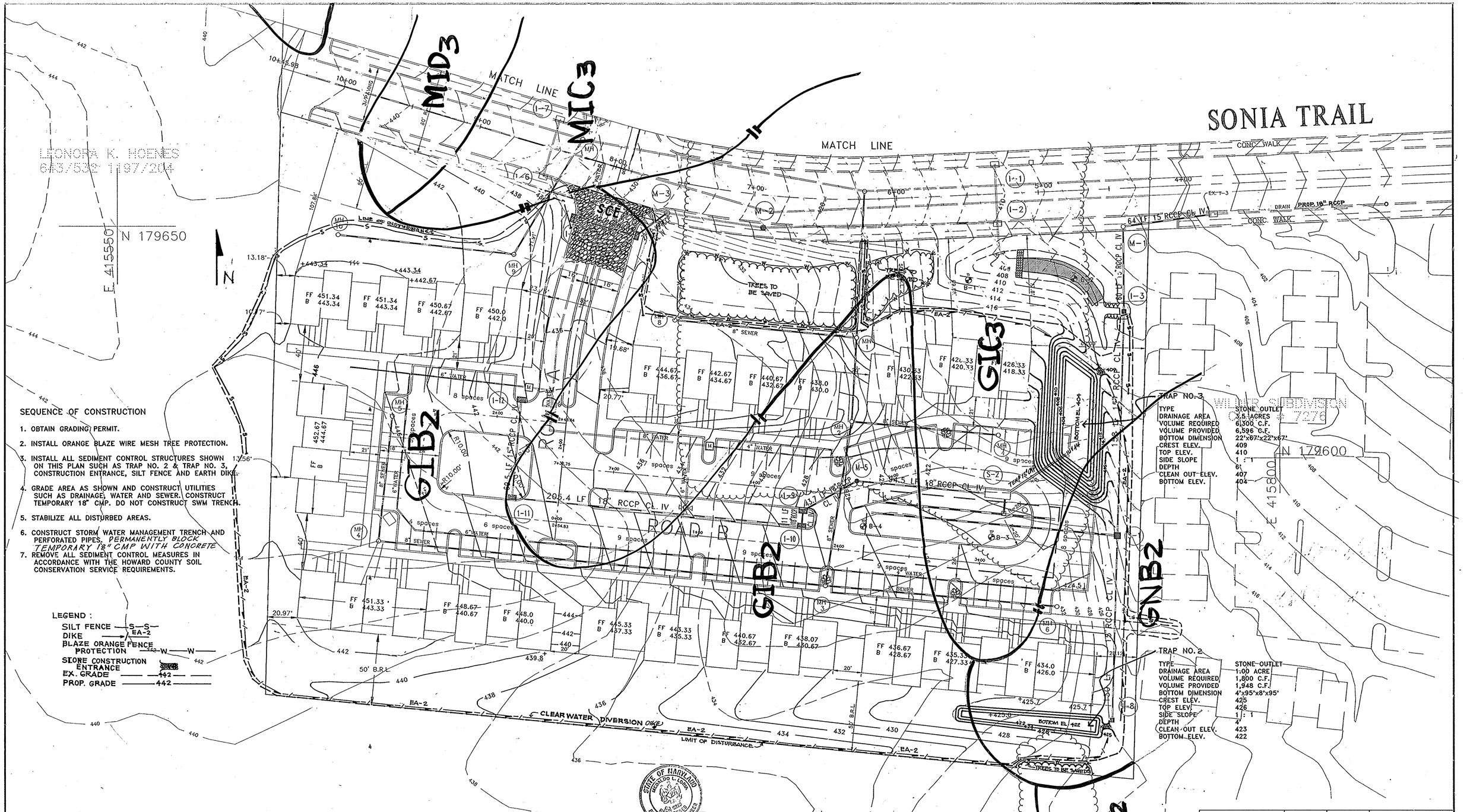
S 17°33'08" E
N 17°33'08" W
S 17°33'08" E



SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL ORANGE BLAZE WIRE MESH TREE PROTECTION.
3. INSTALL ALL SEDIMENT CONTROL STRUCTURES SHOWN ON THIS PLAN SUCH AS TRAP NO. 2 & TRAP NO. 3, CONSTRUCTION ENTRANCE, SILT FENCE AND EARTH DIKE.
4. GRADE AREA AS SHOWN AND CONSTRUCT UTILITIES SUCH AS DRAINAGE, WATER AND SEWER. CONSTRUCT TEMPORARY 18" CMP. DO NOT CONSTRUCT SWM TRENCH.
5. STABILIZE ALL DISTURBED AREAS.
6. CONSTRUCT STORM WATER MANAGEMENT TRENCH AND PERFORATED PIPES. *PERMANENTLY BLOCK TEMPORARY 18" CMP WITH CONCRETE*
7. REMOVE ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION SERVICE REQUIREMENTS.

LEGEND :

SILT FENCE —S—S—
DIKE —EA-2→
BLAZE ORANGE FENCE PROTECTION —W—W—
STONE CONSTRUCTION ENTRANCE
EX. GRADE —442—
PROP. GRADE —442—

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/23/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND DESIGN — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

These plans have been reviewed for the Howard Soil Conservation district and meet the t ll and Sediment Cont

U.S. Soil Conservation Service — Date 2/24/94

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

Howard Soil Conservation District — Date 2/24/94

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before begining the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

BUILDER/DEVELOPER — DATE 4-2-93

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER — DATE 4-2-93

STATE OF MARYLAND — RONALDO L. LAMA — No. 22022 — REGISTERED PROFESSIONAL ENGINEER

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410-465-0400

SUBDIVISION NAME	SECTION/AREA	LOT NO.
WILDER SUBDIVISION PARCEL C-1&C-2, C-3		

PLAT NO.	BLOCK NO.	ZONE	TAX-ZONE	ELECT. DIST	CENSUS TR
11112		R-A-15	17	2ND	6026

WATER CODE F03 — SEWER CODE 1453600

DESIGNED MLL — DRAWN GUS — CHECKED MLL — DATE

SEDIMENT AND EROSION CONTROL PLAN

WILDER SUBDIVISION PARCEL C-1,C-2, C-3

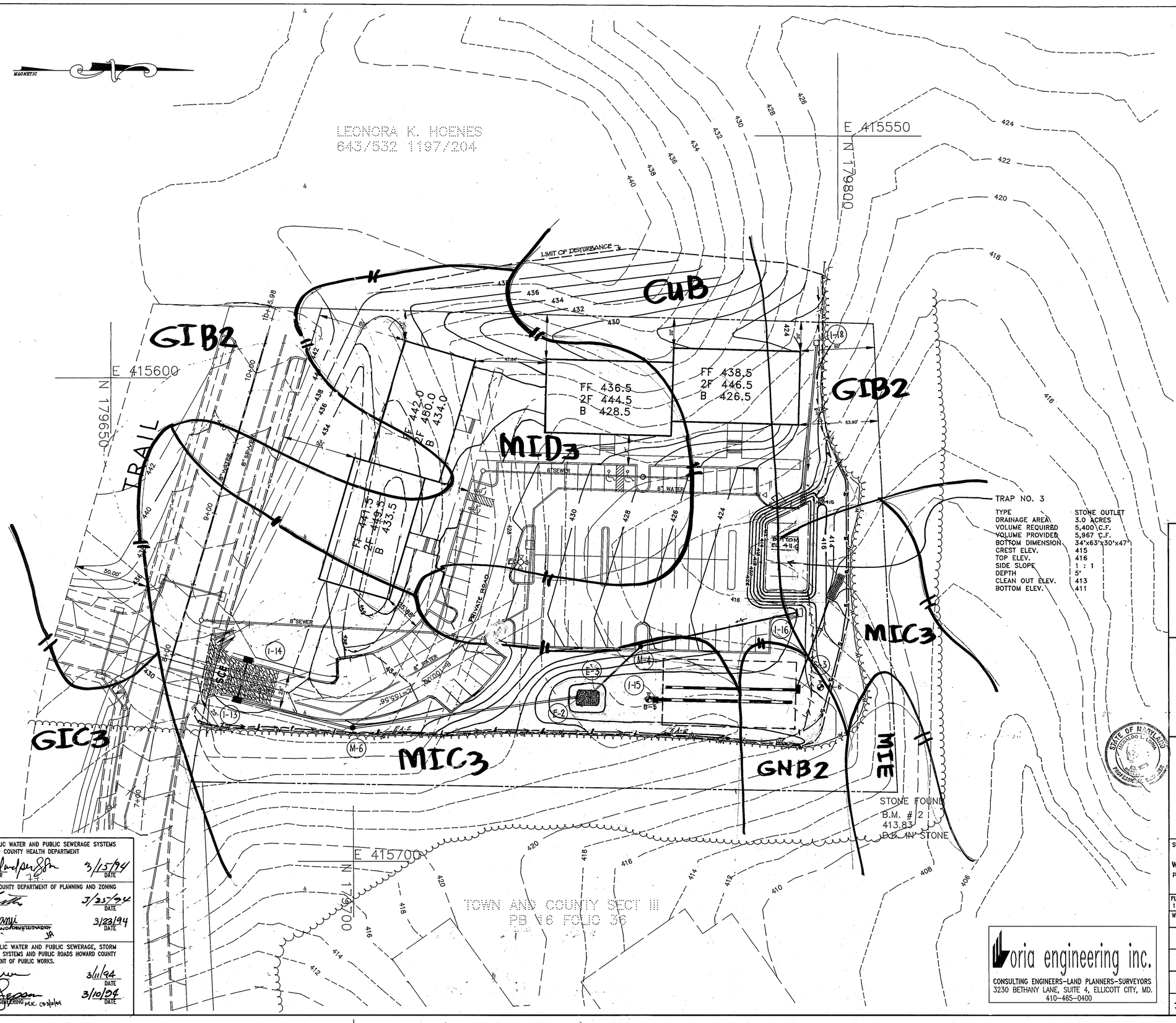
A RESUBDIVISION OF PARCEL C

OWNER-DEVELOPER : WILDER BUILDING CORPORATION, 1514 NEAR THICKET LANE, STEVENSON, MD. 21152

SCALE 1" = 30' — SHEET NO. 10 OF 12 — JOB NO. — FILE

SDP-93-96

SDP-C1.DWG



SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL ORANGE BLAZE WIRE MESH TREE PROTECTION.
3. INSTALL ALL SEDIMENT CONTROL STRUCTURES SHOWN ON THIS PLAN SUCH AS TRAP NO. 3, STONE CONSTRUCTION ENTRANCE AND SILT FENCE.
4. GRADE AREA AS SHOWN AND CONSTRUCT UTILITIES SUCH AS DRAINAGE, WATER AND SEWER. CONSTRUCT PIPE FROM I-18 TO I-17 TO THE LIMIT SHOWN. DO NOT CONSTRUCT PIPE FROM I-17 TO I-18.
5. STABILIZE ALL DISTURBED AREAS.
6. CONSTRUCT STORMWATER MANAGEMENT TRENCH AND FOREBAY.
7. PAVING OF THE PARKING LOT AND REMOVAL OF TRAP NO.3 SHALL BE DELAYED UNTIL APPROVAL OF THE SEDIMENT CONTROL INSPECTOR.
8. REMOVE ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH HOWARD COUNTY SOIL CONSERVATION SERVICE REQUIREMENTS.

TRAP NO. 3

TYPE	STONE OUTLET
DRAINAGE AREA	3.0 ACRES
VOLUME REQUIRED	5,400 C.F.
VOLUME PROVIDED	5,967 C.F.
BOTTOM DIMENSION	34'x63'x30'x47'
CREST ELEV.	415
TOP ELEV.	416
SIDE SLOPE	1 : 1
DEPTH	5'
CLEAN OUT ELEV.	413
BOTTOM ELEV.	411

These plans have been reviewed for the Howard Soil Conservation district and meet the technical requirements for the Soil and Sediment Control.

U.S. Soil Conservation Service — Date 2/24/94

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

Howard Soil Conservation District — Date 8/24/94

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before begining the project.

BUILDER/DEVELOPER — DATE 4-2-93

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER — DATE 4-29-93

STATE OF MARYLAND — RONALD L. CORN — No. 12294 — PROFESSIONAL ENGINEER

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

COUNTY HEALTH OFFICER — DATE 3/15/94

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 3/25/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH. — DATE 3/23/94

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

DIRECTOR — DATE 3/11/94

CHIEF, BUREAU OF ENGINEERING — DATE 3/10/94

SUBDIVISION NAME: WILDER SUBDIVISION PARCEL C-1&C-2,		SECTION/AREA	LOT NO.		
PLAT NO. 11112	BLOCK NO.	ZONE R-A-15	TAX-ZONE 17	ELECT. DIST 2ND	CENSUS TR 6026
WATER CODE F03		SEWER CODE 1453600			

DESIGNED MLL	SEDIMENT AND EROSION CONTROL PLAN	SCALE
DRAWN GUS	WILDER SUBDIVISION PARCEL C-1&C-2,	SHEET NO. 11 OF 12
CHECKED MLL	A RESUBDIVISION OF PARCEL C	JOB NO.
DATE 3-30-93	OWNER-DEVELOPER : WILDER BUILDING CORPORATION 1514 NEAR THICKET LANE STEVENSON, MD. 21152	FILE

oria engineering inc.
CONSULTING ENGINEERS–LAND PLANNERS–SURVEYORS
3230 BETHANY LANE, SUITE 4, ELLICOTT CITY, MD.
410–465–0400

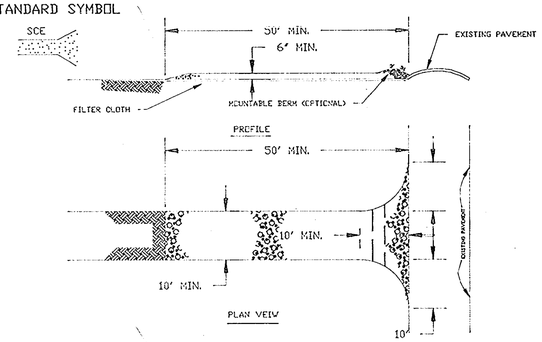
SDP-C2.DWG

SDP-93-96

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

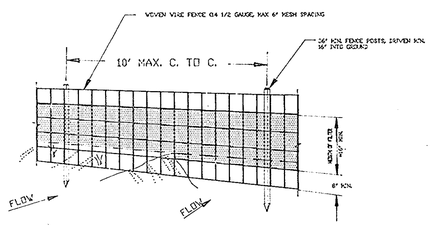
STANDARD SYMBOL



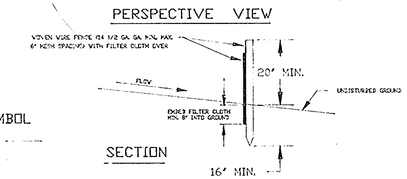
CONSTRUCTION SPECIFICATION

1. STONE SIZE - USE 2" STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FEET MINIMUM, BUT 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 REQUIRE 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 IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

SILT FENCE



PERSPECTIVE VIEW



STANDARD SYMBOL

- - S - - - S - -

SECTION

CONSTRUCTION NOTES FOR FABRICATION 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 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, 14.5 GAL. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100 X, STABI - LINKA T 140 N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, UNLESS PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE(92 LBS/1000 SQUARE FEET) 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).

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. 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 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/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL-ANCHORED STRAW.

MULCHING - APLLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/100 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, UNLESS PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE 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 1 1/2 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 FT 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.

STANDARD AND SPECIFICATION FOR VEGETATIVE STABILIZATION WITH SOD

1. CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
2. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 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 GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
4. INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
5. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED 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 TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.
7. SITE PREPARATION

   FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS UNSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

   A. PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES, 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 SOILS 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.

   C. ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED, HARD-PACKED EARTH SHALL BE SCAREFIED PRIOR TO PLACEMENT OF SOD.

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 SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR 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	8.43	ACRES
AREA DISTURBED	7.93	ACRES
AREA TO BE ROOFED OR PAVED	3.10	ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.83	ACRES
TOTAL CUT	5000	CU. YDS
TOTAL FILL	7000	CU. YDS
OFFSITE WASTE/BORROW AREA LOCATION	SONIA TRAIL CONSTRUCTION	

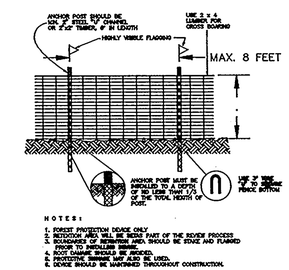
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED 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.

GENERAL NOTES

1) REFER TO "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
2) WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT.
3) AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
4) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZENTAL TO 1 VERTICAL (3:1) AND (B.) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
5) ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
6) DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP 62.01 AND 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
7) ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
8) EXCESS CUT OR BORROW MATERIAL SHALL GO TO OR COME FROM, RESPECTIVELY, A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.

   THE FOLLOWING ITEM MAY BE USED AS APPLICABLE:

9) REFER TO "MARYLAND'S GUIDELINES TO WATERWORKS CONSTRUCTION" BY THE WATER RESOURCES ADMINISTRATION (WRA), DATED JANUARY, 1986 FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.



NOTES:
1. FOREST PROTECTION DEVICE ONLY
2. SUBMITTAL OF THIS DETAIL IS PART OF THE REVIEW PROCESS
3. SCHEDULE OF INSTALLATION AND REMOVAL SHOULD BE SEWN AND FLAGGED PRIOR TO INSTALLING BARRIER.
4. ROOT CHANGE SHOULD BE AVOIDED.
5. PROTECTIVE BARRIER MAY ALSO BE USED.
6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

BLAZE ORANGE PLASTIC MESH

NOT TO SCALE

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

Joyce M Beyeler 3/15/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

3/25/94
PLANNING DIRECTOR DATE

3/23/94
CHIEF, DIVISION OF LAND DEVELOPMENT & RESOURCE CONSERVATION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

3/11/94
DIRECTOR DATE

3/10/94
CHIEF, BUREAU OF ENGINEERING DATE

M.K. CD 3/10/94

oria engineering inc.
CONSULTING ENGINEERS • LAND PLANNERS • SURVEYORS
3230 BETHANY LANE, SUITE 4
ELLICOTT CITY, MARYLAND 21043
TEL. (301) 465-0400

These plans have been reviewed for the Howard Soil Conservation district and meet the technical requirements for soil and sediment control

Patty Engelke/JMR 2/24/94
U.S. Soil Conservation Service date

These plans for soil and sediment control meet the requirements of the Howard Soil Conservation District.

John C. Robertson 2/24/94
Howard Soil Conservation District date

ENGINEER'S CERTIFICATE

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

4-13-92
SIGNATURE OF ENGINEER DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beging the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

Doyle Wilder
BUILDER/DEVELOPER DATE

WILDER SUBDIVISION PARCEL C-1 & C-2
A RESUBDIVISION OF PARCEL C

SEDIMENT AND EROSION CONTROL NOTES

owner :

WILDER BUILDING CORPORATION
1514 NEAR TICKET LANE
STEVENSON, MD. 21152

SCALE:	DATE: 7-1-93	SHEET 12 of 12
DESIGNED: MLL	DRAWN: GUS	CHECKED:

SDP-93-96