

TEMPORARY SEEDING NOTES

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

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

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

Seeding : For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 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. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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, if not previously loosened.

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 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. per 1000 sq.ft.).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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 (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options :

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

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

NOTE:
CONTRACTOR SHALL ONLY OPEN ENOUGH TRENCH THAT CAN BE BACKFILLED AND STABILIZED THE SAME DAY

LEGEND

R.O.W. LINE	---	EX. TREE LINE	~~~~~
PROPERTY LINE	---	EX. ELEC. BOX	☐
EX. FENCE LINE	---x---	EX. MAILBOX	☐
EX. CONTOUR	---338---	EX. MANHOLE (SANITARY)	⊙
LIMIT OF DISTURBANCE	---340---	EX. CLEANOUT (SANITARY)	⊕
SILT FENCE	---S.F.---	EX. SANITARY SEWER	---
STD. INLET PROTECTION	☐	EX. WATER MAIN	---
PROP. STORM DRAIN	---	EX. STORM DRAIN	====
PROP. MANHOLE	●	EX. INLET	☐
PROP. INLET	☐	EX. PROPERTY CORNER	☐●
PROP. END SECTION	△	EX. CABLE TV PEDESTAL	☐
PROP. EASEMENT	---	EX. 4" ROOF DRAIN	---
PROP. SWALE	---	EX. SWALE	---

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. [Signature] 11/25/03
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 11/25/03
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 11/25/03
 CHIEF, DIVISION OF TRANSPORTATION AND SPECIAL PROJECTS DATE

Patton Harris Rust & Associates, pc
 Engineers. Surveyors. Planners. Landscape Architects.

8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

PHRA

DES:	H.M.S.		
DRN:	B.C.R.		
CHK:	G.C.L.		
DEC:	2001	BY	NO.
		REVISION	DATE

STORM DRAIN PLAN & NOTES

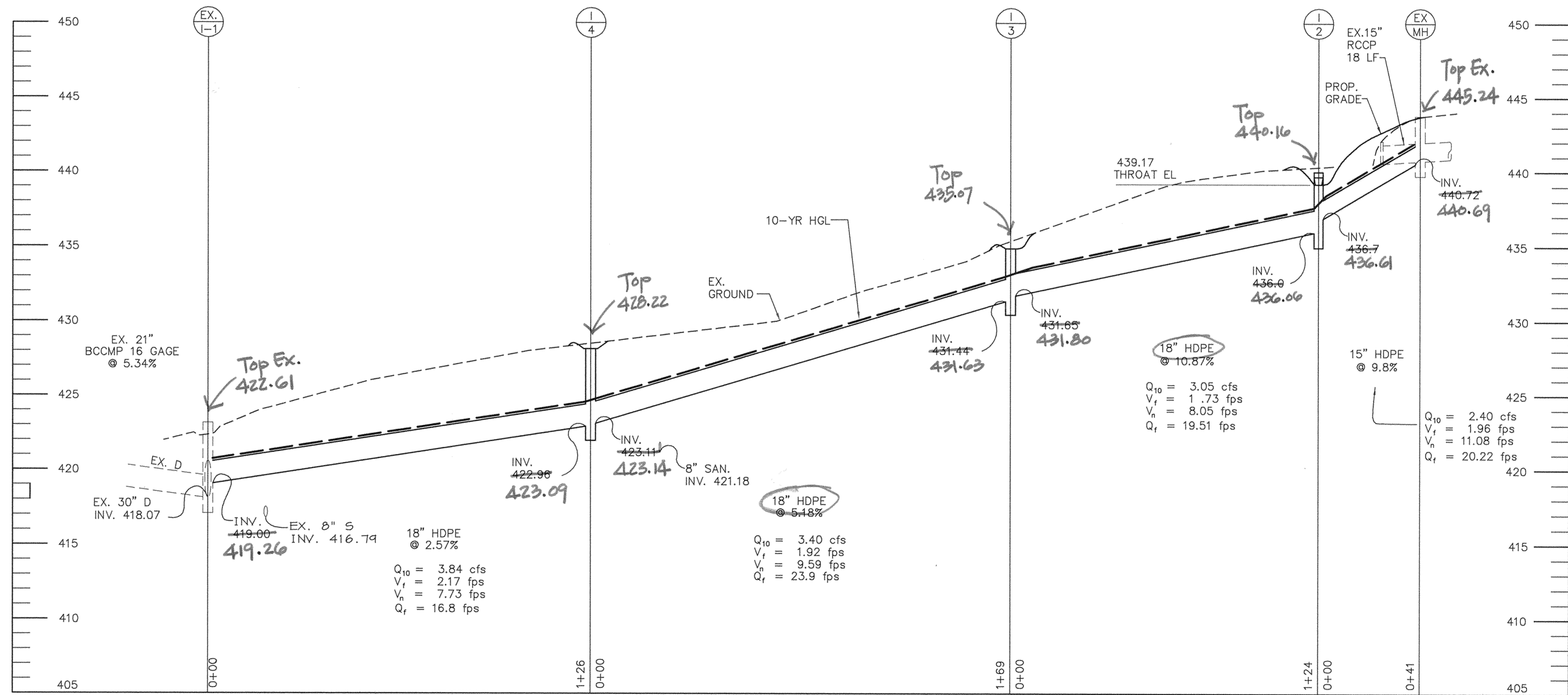
600' SCALE MAP NO. 35 BLOCK NO. 5,11

**BIRD SONG PASS
 STORM DRAIN IMPROVEMENT
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. D-1118-47**

SCALE AS SHOWN

SHEET 1 OF 2

STRUCTURE SCHEDULE						
STRUCTURE NUMBER	LOCATION	TYPE	TOP GRATE ELEV.	INV. IN	INV. OUT	REMARKS
EX. MH1	N 561775.85 E 1344151.65		443.8±	440.92±	440.72	REMOVE EX. 15" RCP CONNECT NEW 15" HDPE
I-2	N 561750.75 E 1344119.09	D	440.0	436.70	436.00	HO. CO. STD. SD-4.39 PROVIDE THROAT ON ALL 4 SIDES.
I-3	N 561740.44 E 1343995.63	SINGLE WR	435.2	431.65	431.44	HO. CO. STD. SD-4.37
I-4	N 561726.85 E 1343831.24	SINGLE WR	428.5	423.11	422.96	HO. CO. STD. SD-4.37
EX. I-1	N 561713.73 E 1343677.58	STD. 4'-0"	423.2	419.41	419.19	

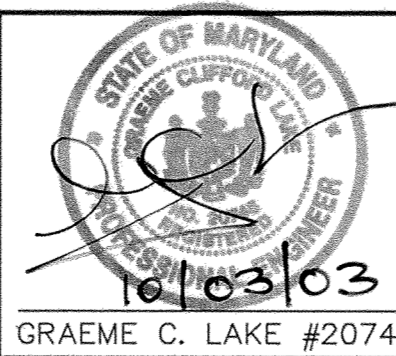


AS-BUILT
5-27-05
SEBODA/MILLER
BK 370-PG. 72

PROFILE
SCALE: HORZ: 1" = 30'
VERT: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
11/25/03
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Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
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DES: H.M.S.	
DRN: B.C.R.	
CHK: G.C.L.	
DEC. 2001	
BY NO.	REVISION
	DATE

SCHEDULES & PROFILES
600' SCALE MAP NO. 35 BLOCK NO. 5,11

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STORM DRAIN IMPROVEMENT
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. D-1118-47
SCALE AS SHOWN
SHEET 2 OF 2