

**STRUCTURE SCHEDULE**

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	S	N 531,543.63 E 1,366,751.21	361.30	366.00	213.2	HOCO STD. DETAIL SD 4.22
E-1	24" END SECTION	N 531,464.00 E 1,366,863.00	-	360.00	-	HOCO STD. DETAIL SD 5.51

NOTES: LOCATION OF "S" INLETS IS AT CENTER OF TOP COVER.  
FOR END SECTIONS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE.  
TOP ELEVATION IS TOP OF CURB/GRATE/RIM.

**RESTORATION SCHEDULE**

LOCATION	LENGTH	TYPE *
BETWEEN LOTS 17 & 18	230'	SEED & MULCH

\* USE PERMANENT SEEDING NOTES PER THIS SHEET.

**PERMANENT SEEDING NOTES**

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

Seeding Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. If not previously done.

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 800 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 50-0-0 granular fertilizer (4 lbs. per 1000 sq. ft.).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (20 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

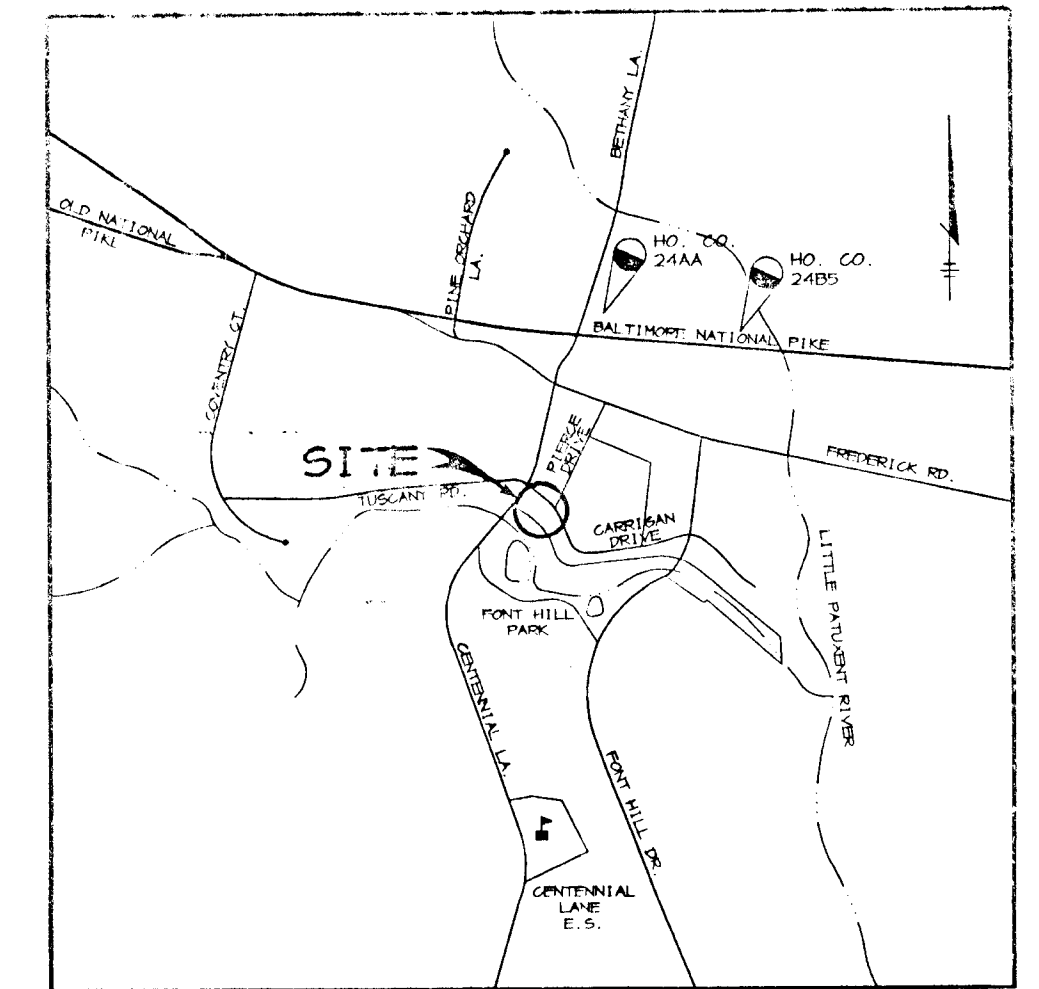
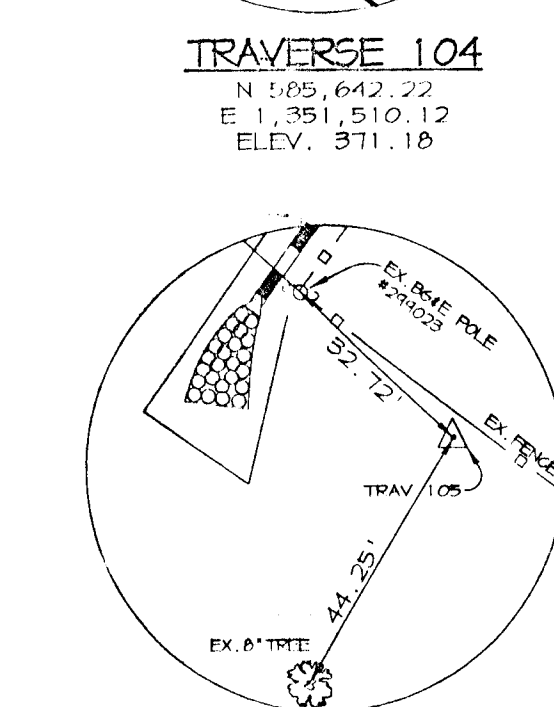
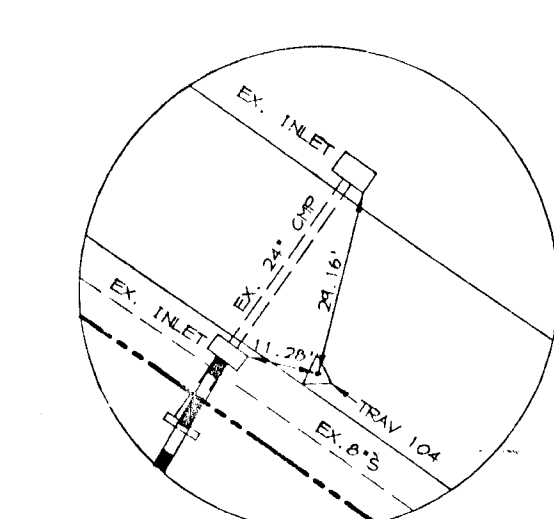
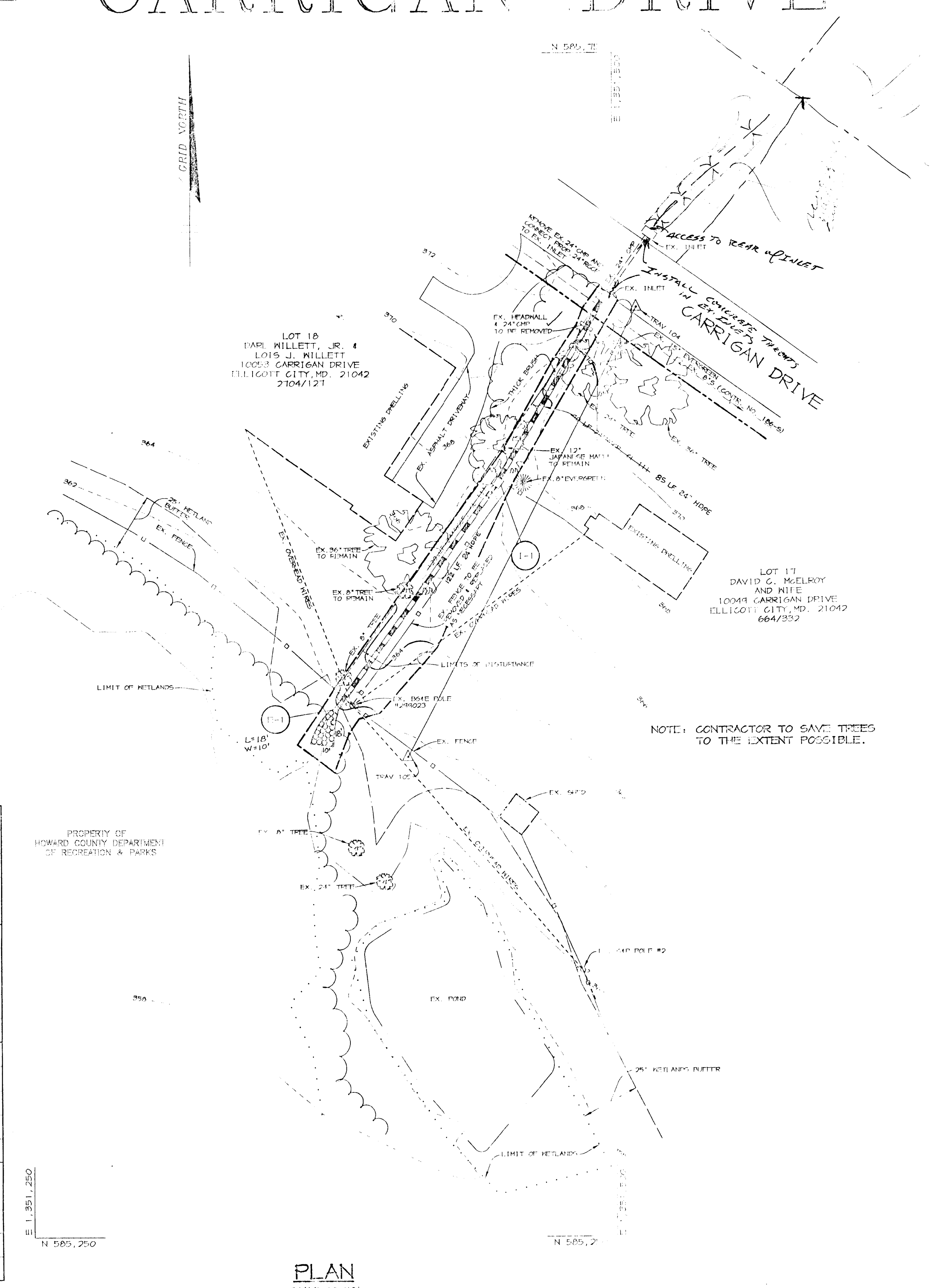
Seeding - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 80 lbs. per acre (1.4 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. per acre Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.02 lbs. per 1000 sq. ft.) of seedling lavender. 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 (170 to 200 lbs. per 1000 sq. ft.) of unchipped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gal. per acre 15 gal. per 1000 sq. ft.) of mulch tied against on flat areas. On slopes, 8 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

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

# DRAINAGE IMPROVEMENTS CARRIGAN DRIVE

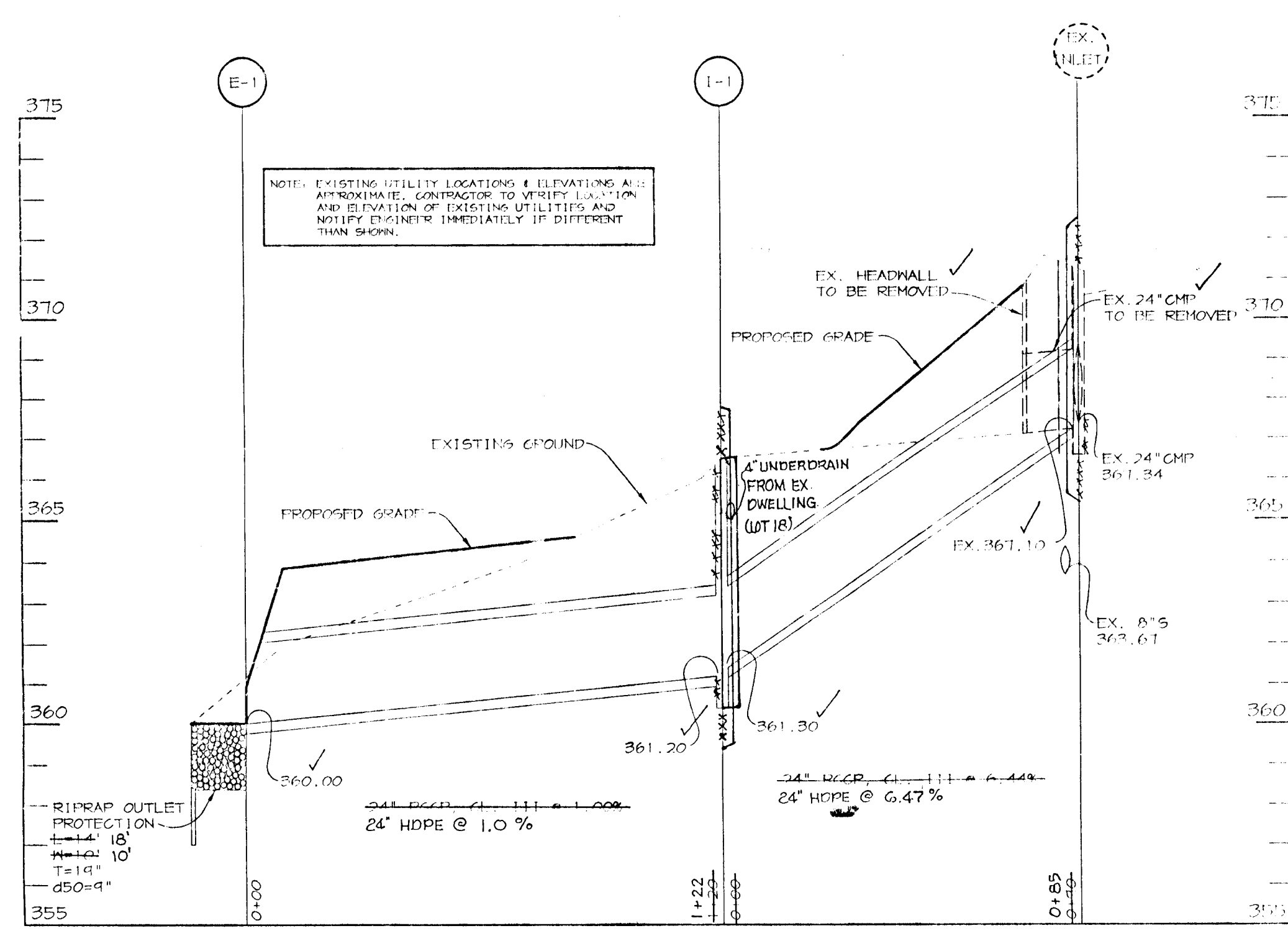


**VICINITY MAP**  
SCALE: 1"=2000'

**BENCH MARKS**  
HOWARD COUNTY SURVEY CONTROL STATION 244A  
N 505,642.22 E 1,352,397.52  
HOWARD COUNTY SURVEY CONTROL STATION 2485  
N 506,866.76 E 1,356,364.08

**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MIG U. UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY WIEDER MUEGGE & ASSOC. DATED MAY, 1998.
5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
6. THERE IS NO PROPOSED WATER FOR THIS PROJECT.
7. THERE IS NO PROPOSED SEWER FOR THIS PROJECT.
8. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
9. THERE IS NO 100-YEAR FLOODPLAIN ON SITE.
10. SUBJECT PROPERTY ZONED R-20 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
11. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
12. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
13. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11.4, VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
14. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
15. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
16. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
17. PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
18. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
19. THE DISTURBED AREA AND DISTURBED EARTH WORK IS LESS THAN 5000 SF AND 100 CUBIC YARDS, RESPECTIVELY. THEREFORE, A SEEDING CONTROL PLAN IS NOT REQUIRED FOR THIS PROJECT.
20. CONTRACTOR SHALL ONLY EXCAVATE THAT AMOUNT OF PIPE THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED THE SAME DAY.



**STORM DRAIN PROFILE**

SCALE: HORIZ. 1"=30'  
VERT. 1"=3'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>Clayton M. Thompson</i> 8/1/98 Chief, Division of Transportation Projects and Watershed Management: <i>William A. Calver</i> 7/21/98		RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 6818 Centre Park Drive, Columbia, Md. 21045 Tel 410.997.8500 fax 410.997.9282 98133 11/11.DWG		PLAN AND PROFILE DATE: 7/1/98 BY: NO. REVISION: DATE:		DRAINAGE IMPROVEMENTS CARRIGAN DRIVE 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT No.D-1078-MM SCALE AS SHOWN SHEET 1 OF 1	
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AS-BUILT 11/02/08