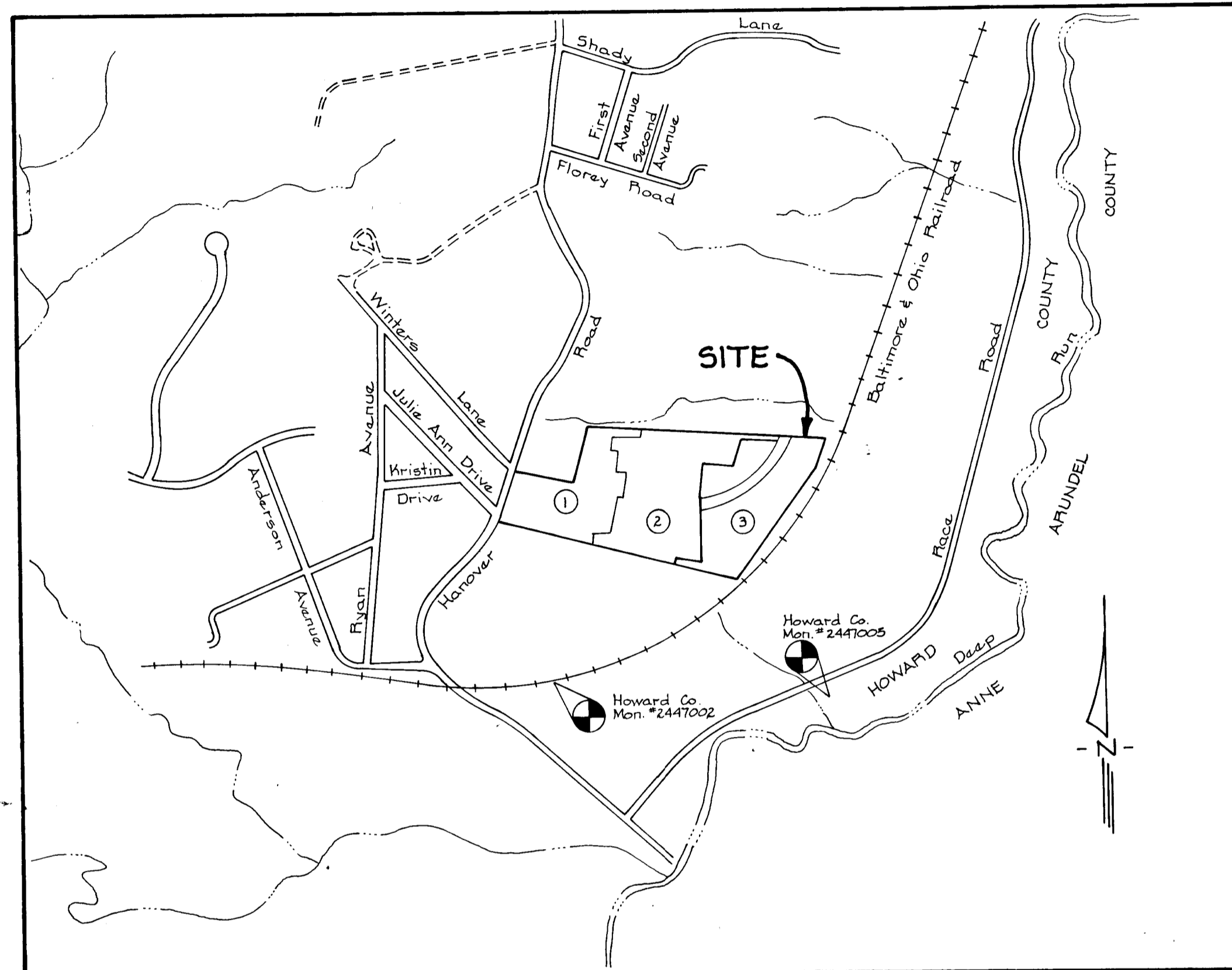
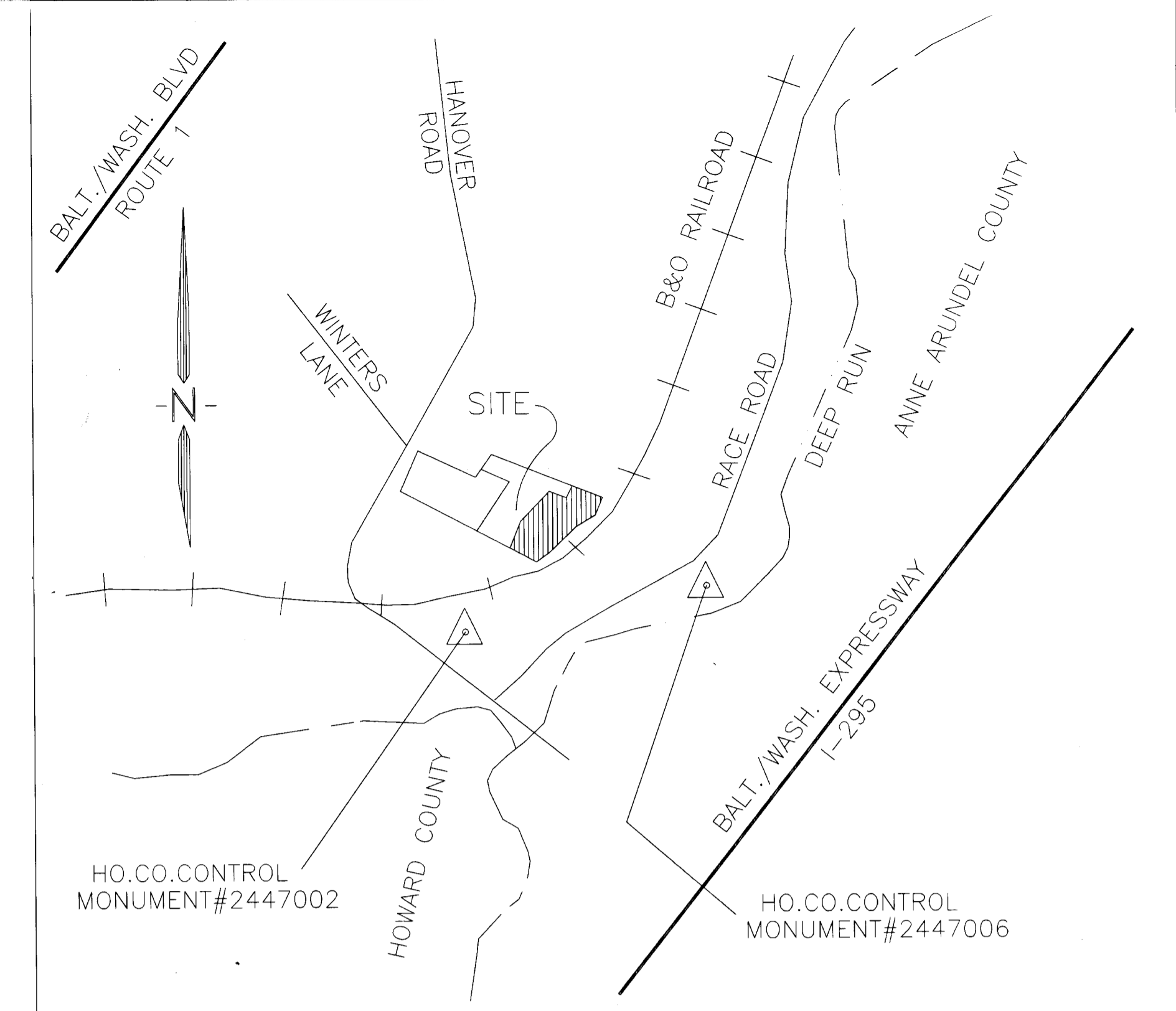


INDEX OF SHEETS

Title Sheet	1
Plan and Profile - Hanover Crossing Way	2
Road Construction Details	3
Grading, Storm Drains, and Sediment Control	4
Sediment and Erosion Control Details	5
Storm Drain Profiles, Details, Comps, and Structure Schedule	6



LOCATION MAP
SCALE: 1" = 1/400'



VICINITY MAP
Scale: 1" = 2000'

GENERAL NOTES

- All work shall be done in accordance with Howard County Standards, Specifications and Details for Construction.
- All utility companies must be notified in advance of any construction.
- Storm drainage trenches within road rights-of-way shall be backfilled and compacted in accordance with Howard County Road Code.
- Any damage to public rights-of-way or paving will be corrected at the contractor's expense. Contractor to notify the Howard County Construction Inspection Division at least three days before starting work shown on these drawings. (Telephone: (410) 313-1800)
- All traffic control devices shall be installed in accordance with the Manual of Uniform Traffic Control Devices, Latest Revised Edition.
- Location of existing utilities shall be verified by the contractor prior to starting any work shown on these drawings. Any damage to existing utilities will be corrected at the contractor's expense.
- Stormwater Management for this project was approved 9/16/91 as plan No. F-89-18, and titled "Hanover Crossing-Section One, Lots 1-17". As prepared by: ENG. CONSULTANTS & ASSOC. INC. WP-90-37 Approved 12/21/89 for plan #P.89-16 (SECT. 3). Waiver Section 16.118.8 allowing 6 mos. extension of an approved preliminary plan.
- Street trees to be provided as required by section 16.131 of The Howard County Subdivision and Land Development Regulations.
- Contractor to provide street lamp as shown: ~~standard~~ 100 watt HPS vapor lamp mounted on 14' high fiberglass black pole.
- Wetland delineation was performed by: McCarthy & Associates, Inc., Sept., 1991.
- Field survey of wetlands flagging was performed by the developer and supplied to the engineer.
- All construction shall be done in accordance with current Howard County Design Manual, Volume 4.
- Previous file numbers: S-88-04, P-88-55, WP-90-09, F-91-04.
- Provide handicap ramps in accordance with ADA Requirements.
- This property is located in the airport noise zone and was approved for subdivision pursuant to comar, article transportation, sect. 5-822 as evidenced by airport zoning permit application No. docket future residential construction will require approval from the Board of Airport Zoning Appeals prior to issue. Approved.

BENCHMARKS

- HOWARD COUNTY MONUMENT #2447002 - ELEV.= 89.819
Concrete monument northeast corner railroad tracks and Hanover Road. 3" below surface.
- HOWARD COUNTY MONUMENT #2447005 - ELEV.= 49.478
Rebar on west side Race Road opposite p.i. of curve in road, 9' off edge of macadam. 2" below surface.

**HANOVER CROSSING
SECTION THREE
ROAD CONSTRUCTION DRAWINGS
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert Dammann 5/20/94
CHIEF, LAND DEVELOPMENT DIVISION MK DATE

Andrew M. Douch 5-17-94
CHIEF, BUREAU OF HIGHWAYS JS DATE

Paul J. Sposon 5/23/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

Ann Summery 5/26/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH CRG DATE

ENGINEER: Jose Escalante P.E.
6623 Hunters Wood Circle
Baltimore, MD. 21228
(410) 785-8930

OWNER: J.N.D.C. LIMITED PARTNERSHIP
Suite 201
5570 Sterret Place
Columbia MD. 21044
(410) 997-4430

DEVELOPER: NEWBURN DEVELOPMENT CORP.
Suite 201
5570 Sterret Place
Columbia, MD. 21044
(410) 997-4430

1631

	DES: DRH						
	DRN: DRH						
	CHK: JE						
	DATE: 9-18-93	BY	NO	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.

HANOVER CROSSING WAY
TITLE SHEET

HANOVER CROSSING
SECTION THREE
LOTS 42 THRU LOTS 62
TAXMAP 38 PARCEL 266
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1. of 6.

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY OR PAVING WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS (410) 913-1880.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISED EDITION.
7. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING ANY WORK SHOWN ON THESE DRAWINGS. ANY DAMAGE TO EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
8. STORMWATER MANAGEMENT FOR THIS PROJECT WAS APPROVED 9/16/91 AS PLAN F-89-18, AND TITLED "HANOVER CROSSING - SECTION ONE, LOTS 1-17".

Curve Data

STA. 10+78.48 TO STA. 15+52.71
 Radius = 303.00'
 Length = 474.23'
 Ch = 301.28'
 Delta = 89°40'26"
 Chord = N 49°58'07" E 427.29'

EXISTING HANOVER CROSSING SUBDIVISION-SECTION TWO

62 OPEN SPACE

TEMPORARY T-TURNAROUND SEE DETAIL SHEET 3 OF 6

FUTURE PATAPSCO RIDGE SUBDIVISION

EXISTING SWMP EASEMENT

LIGHTING
 100 WATT HPS TRADITIONAL VAPOR LAMP MOUNTED ON A 14' HIGH FIBERGLASS BLACK POLE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Alvin C. ... 5/20/94 DATE
 CHIEF, LAND DEVELOPMENT DIVISION M.K.
Andrew M. ... 5-17-94 DATE
 CHIEF, BUREAU OF HIGHWAYS H.S.
Donald ... 5/23/94 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PLANNING & ZONING

John ... 5/26/94 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

OWNER

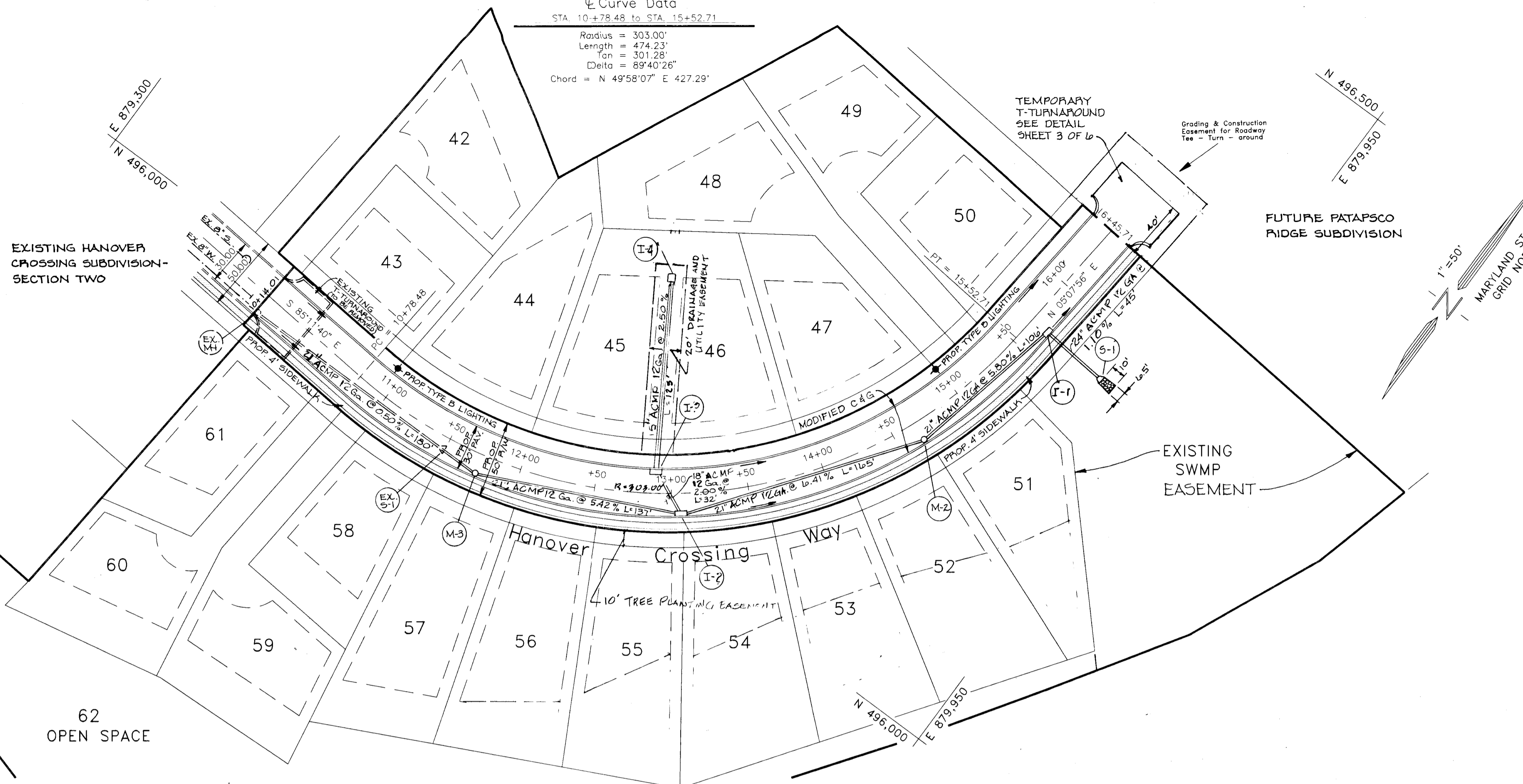
J.N.D.C. Limited Partnership
 5570 Sterrett Place, Suite 201
 Columbia, Maryland 21044
 Phone: (410) 997-4430
 Phone: (301) 596-3887

DEVELOPER

NEWSBURN DEVELOPMENT CORPORATION
 5570 Sterrett Place, Suite 201
 Columbia, Maryland 21044
 Phone: (410) 997-4430
 Phone: (301) 596-3887

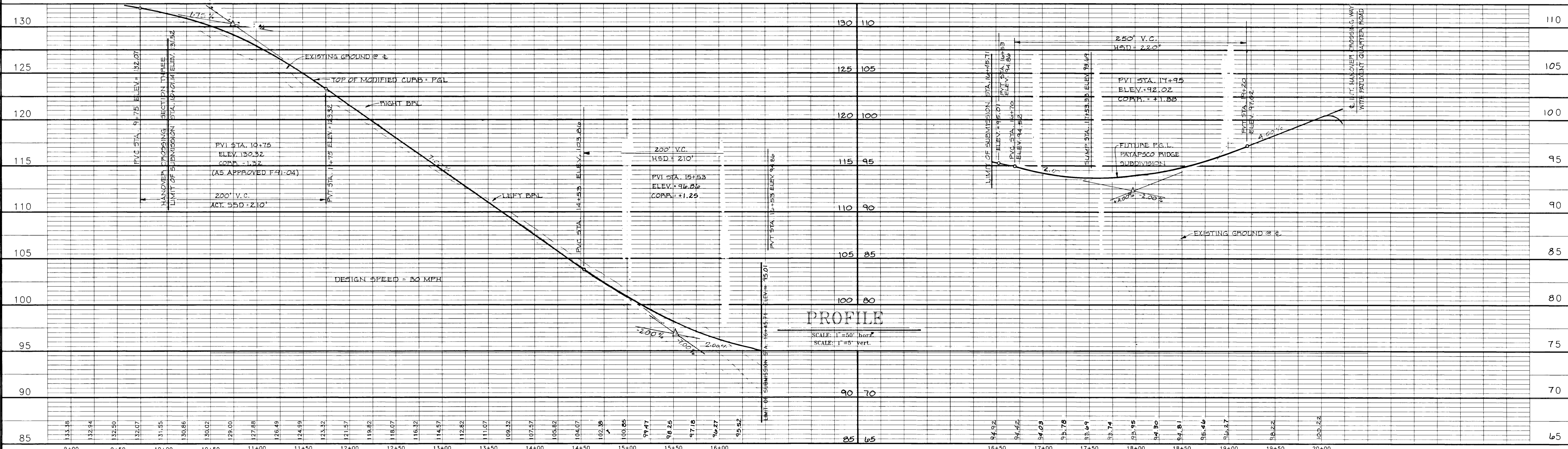
ENGINEER

Jose Escalante
 6623 Hunterswood Circle
 Baltimore, MD 21228-2538



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' hor.
 SCALE: 1"=5' vert.

1631

Jose Escalante
 9/12/93

DES: DPH
 DRN: DPH
 CHK: JE
 DATE: 9-18-93

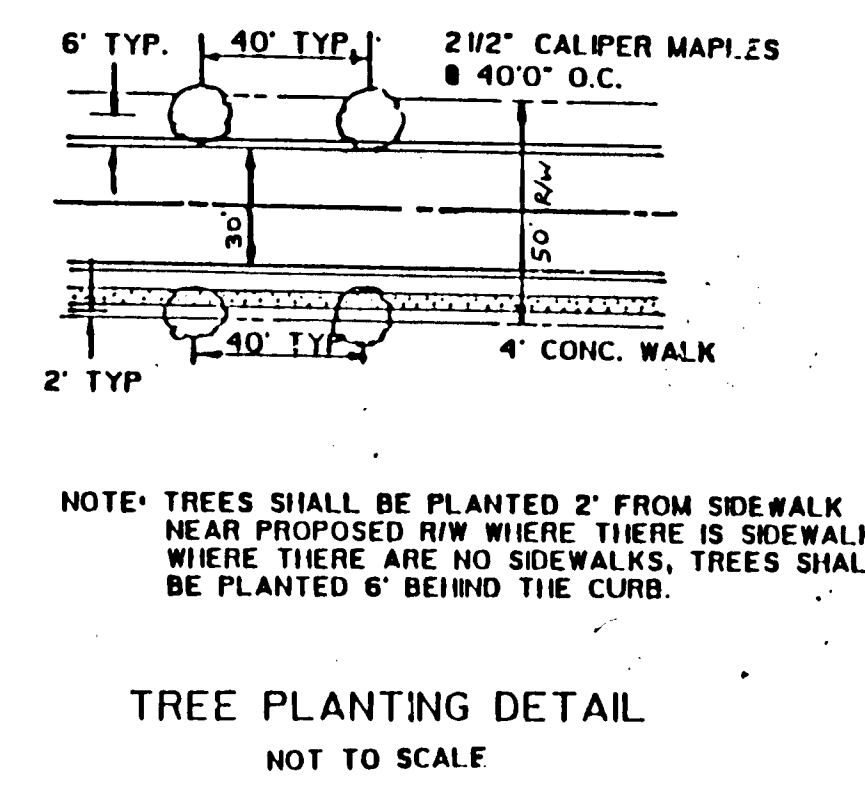
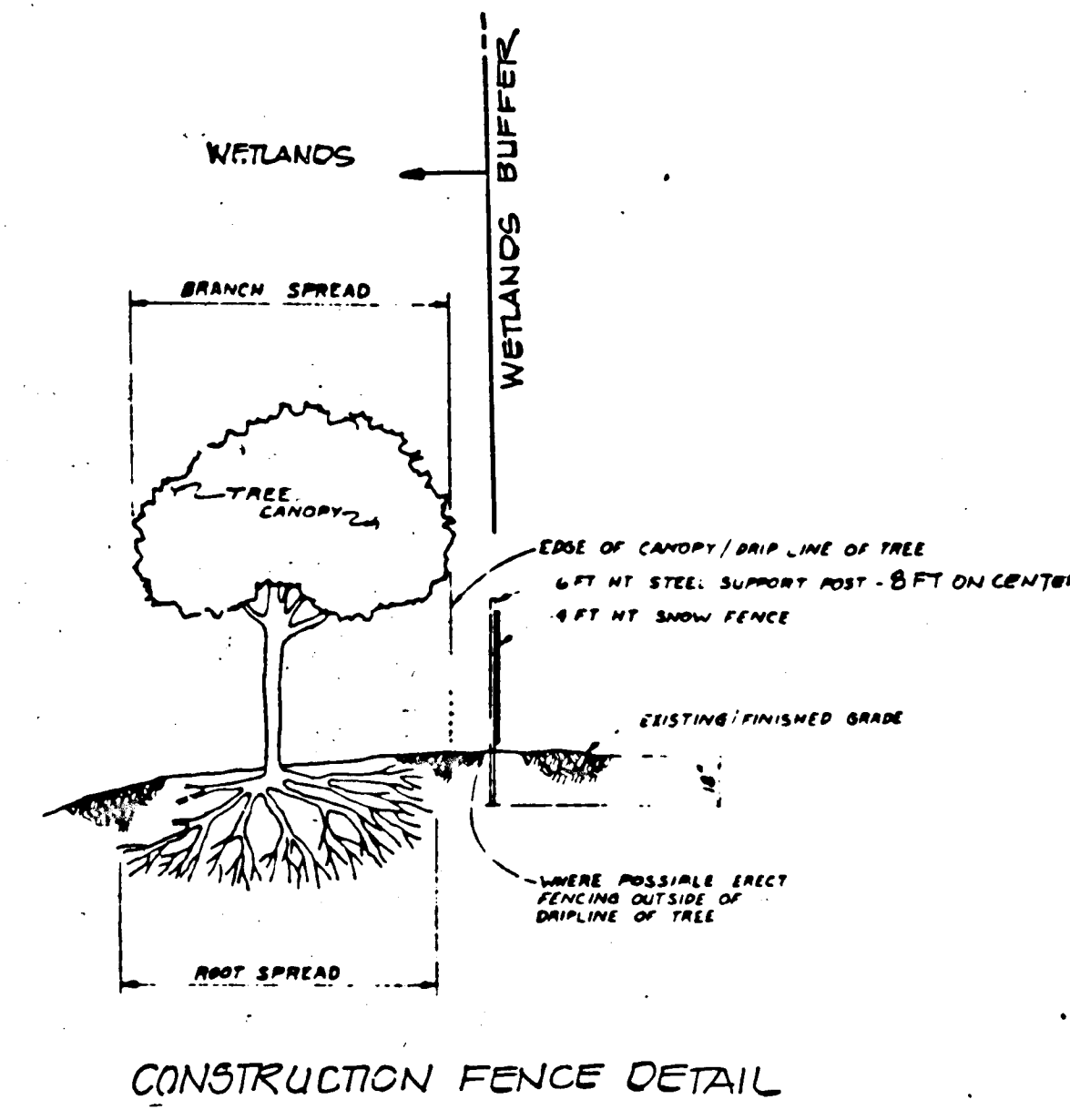
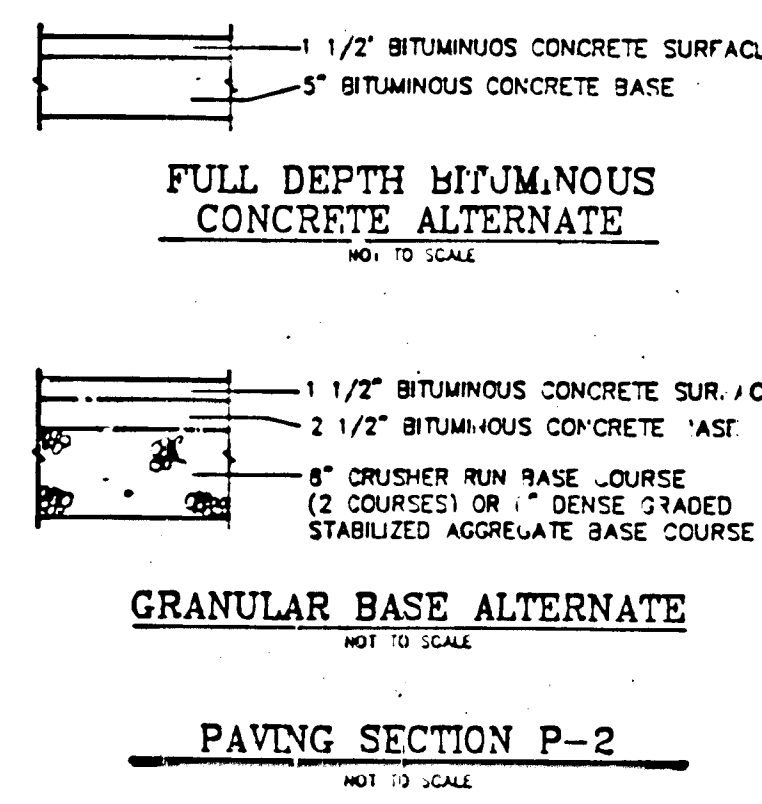
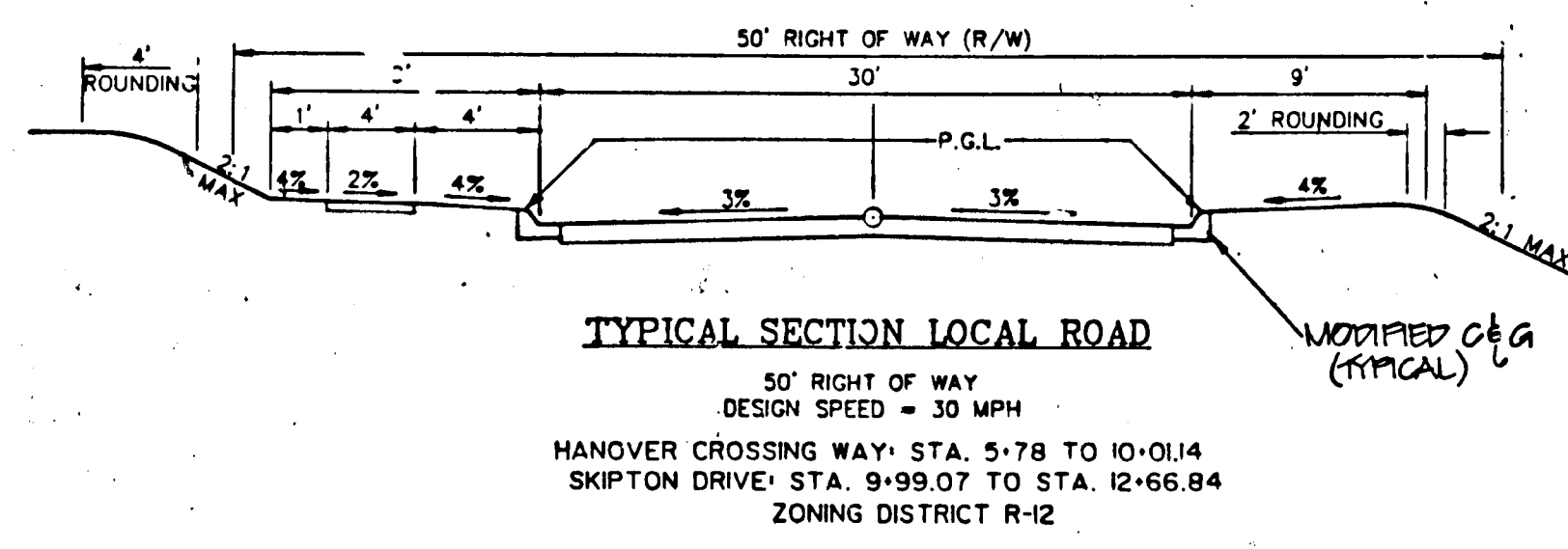
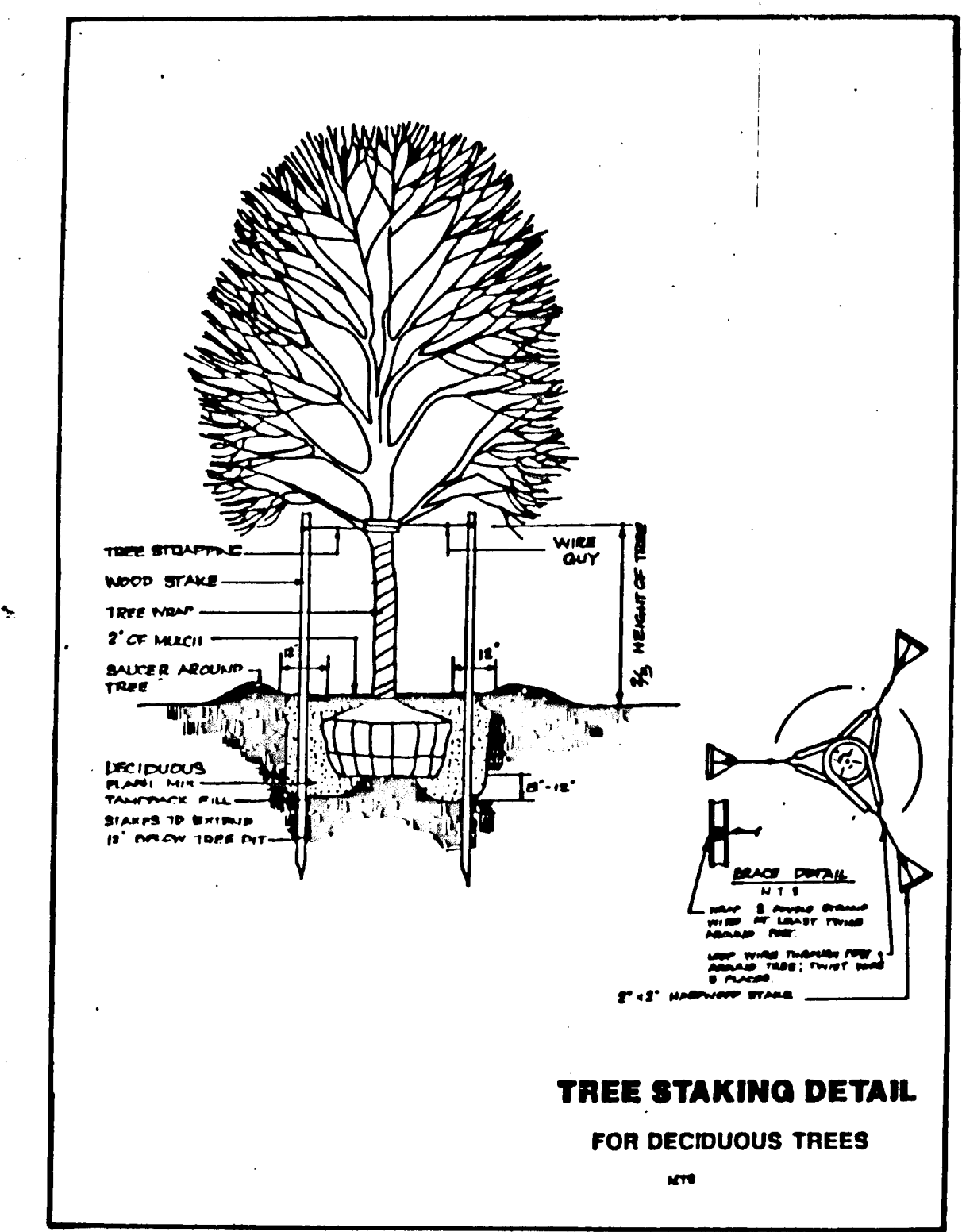
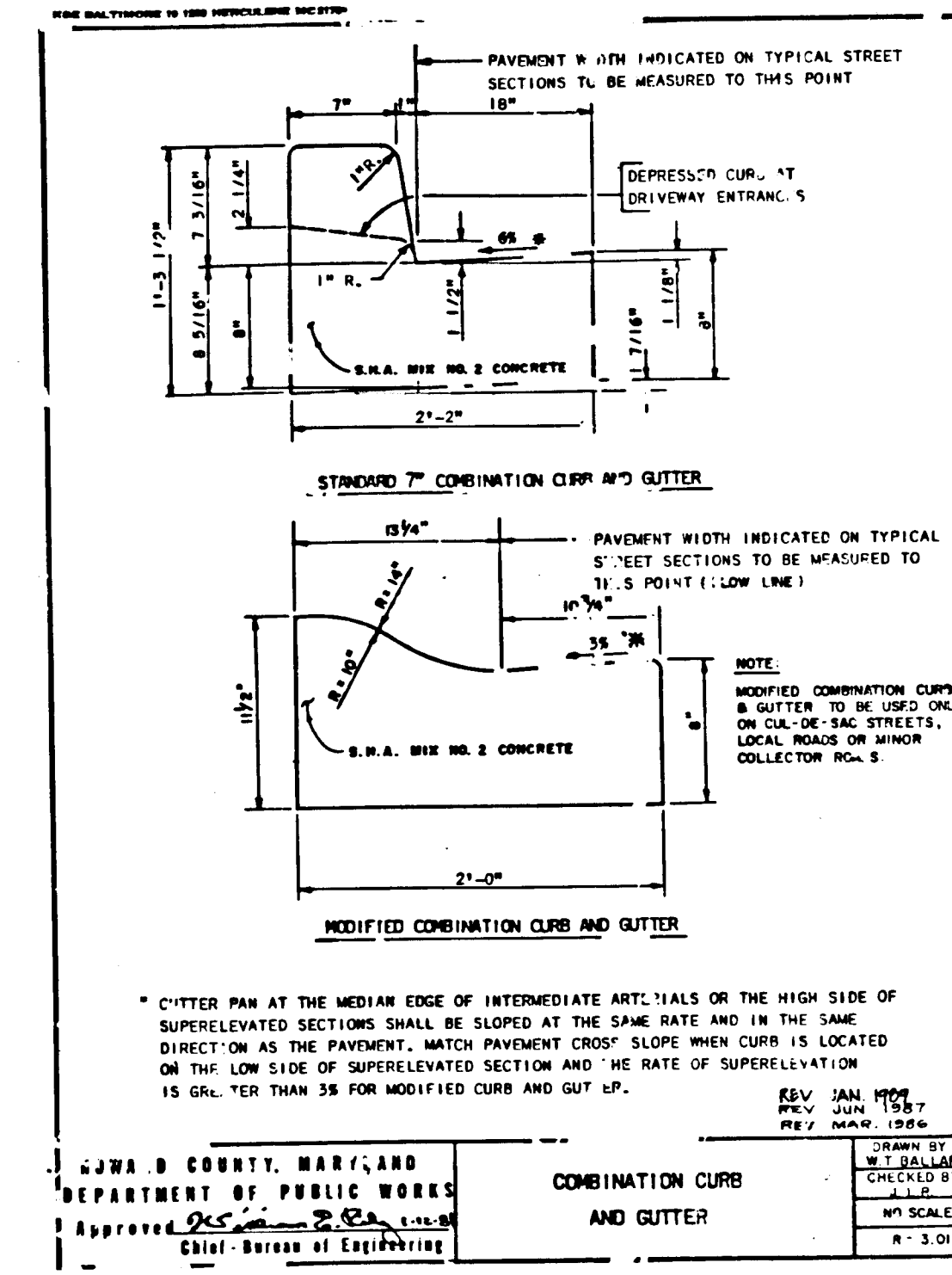
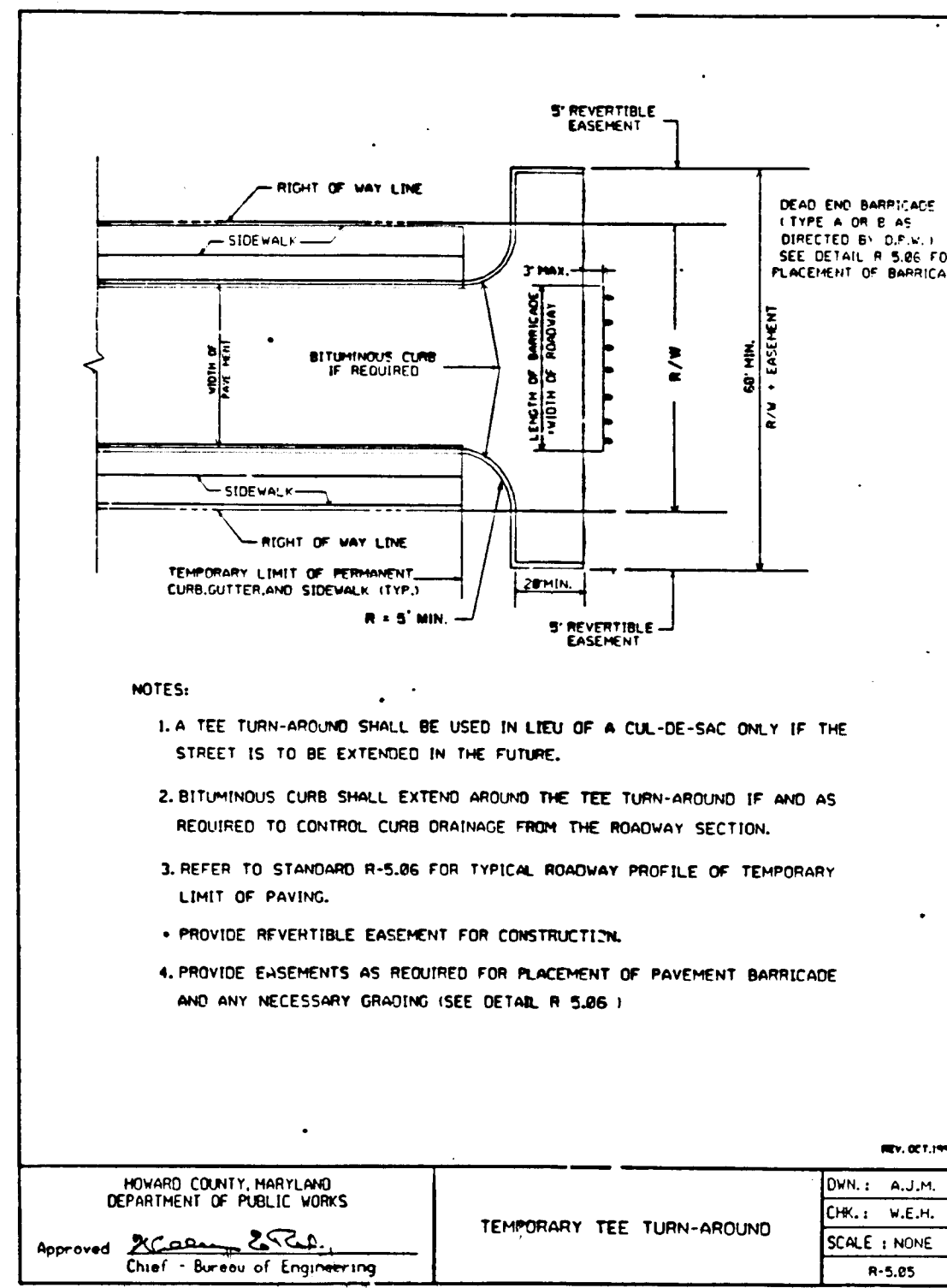
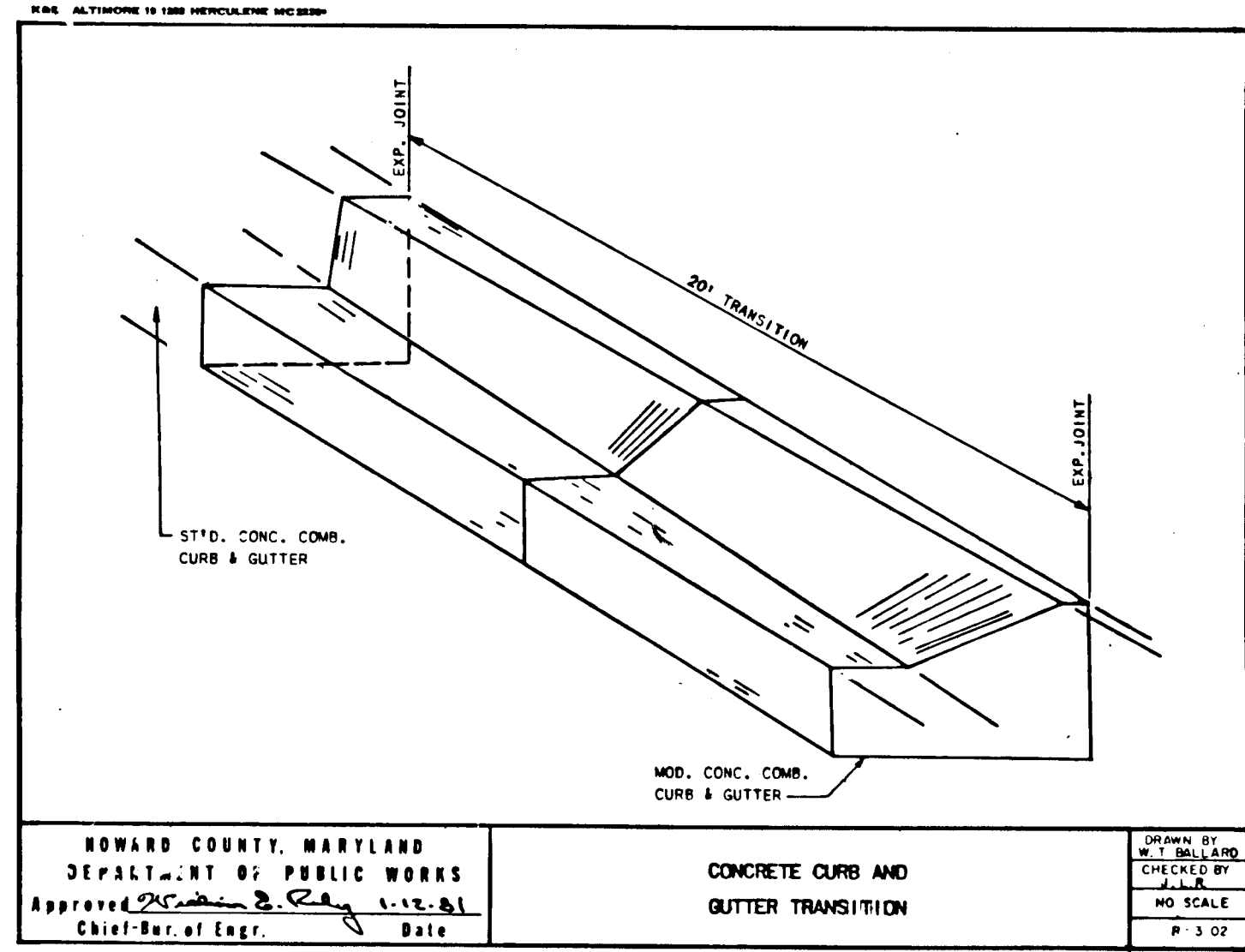
HANOVER CROSSING WAY
 PLAN & PROFILES

HANOVER CROSSING
 SECTION THREE
 LOTS 42 THRU LOTS 62
 TAXMAP 38 PARCEL 266
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 2 of 6

F 9A-30



LANDSCAPE TABULATION				
SYMBOL	QUANTITY	SPECIES NAME	SIZE	REMARKS
	49	ACER RUBRUM (RED MAPLE)	2 1/2" CALIPER (MIN)	BALLED & BURLAPPED

OWNER: J.N.C. Limited Partnership, 5570 Sterrett Place, Suite 201, Columbia, Maryland 21044, Phone: (410) 997-4430, Fax: (301) 596-3887

DEVELOPER: NEWBURN DEVELOPMENT CORPORATION, 5570 Sterrett Place, Suite 201, Columbia, Maryland 21044, Phone: (410) 997-4430, Fax: (301) 596-3887

ENGINEER: JOSE ESCALANTE P.E., 6623 Hunters Wood Circle, Baltimore, Maryland 21228, Phone: (410) 788-8930

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 5/20/94
DATE

[Signature] 5-17-94
DATE

[Signature] 5/23/94
DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

[Signature] 5/26/94
DATE

1631

NEWBURN DEVELOPMENT CORPORATION
5570 Sterrett Place, Suite 201
Columbia, Maryland 21044
Phone: (410) 997-4430
Phone: (301) 596-3887

DES: DRH
DRN: DRH
CHK: JE
DATE: 9-18-93

BY NO REVISION DATE

600' SCALE MAP NO. 38 BLOCK NO. 15

HANOVER CROSSING
SECTION THREE
LOTS 42 THRU LOTS 62
TAXMAP 38 PARCEL 266
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 of 6

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

James L. Newburn 9-20-93
 SIGNATURE OF DEVELOPER DATE
 Newburn Development Corporation

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Jose Escalante 9/18/93
 SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Patricia Engle 5/6/94
 U.S. SOIL CONSERVATION DISTRICT DATE

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

John R. Robertson 5/6/94
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Alfred Dammann 5/20/94
 CHIEF, LAND DEVELOPMENT DIVISION M.K. DATE

Andrew M. Daniels 5-17-94
 CHIEF, BUREAU OF HIGHWAYS H.S. DATE

Donald J. Sapon 5/23/94
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
Olivia Swinney 5/26/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

EXISTING TRAP #2
 STONE OUTLET
 D. A. (MAX.) = 3.2 AC.
 VOLUME REQ'D. = 5,760 C.F.
 VOLUME PROV'D. = 6,696 C.F.
 BOTTOM DIM. = 27' x 30'
 DEPTH = 4'
 SIDE SLOPES = 2:1
 BOTTOM ELEV. = 100.00
 WEIR CREST ELEV. = 105.00
 EMBANKMENT ELEV. = 106.00
 CLEANOUT ELEV. = 102.00
 OUTLET LENGTH = 15'

SEDIMENT BASIN DATA*
 DRAINAGE AREA = 10.0 AC.
 VOLUME REQ'D. = 18,000 C.F.
 VOLUME PROV'D. = 44,431 C.F.
 CLEANOUT ELEV. = 83.0
 * DATA WAS OBTAINED FROM APPROVED SWM COMPUTATIONS UNDER F-89-18, PREPARED BY ENGINEERING CONSULTANTS AND ASSOC. (REVISED 11/15/89).

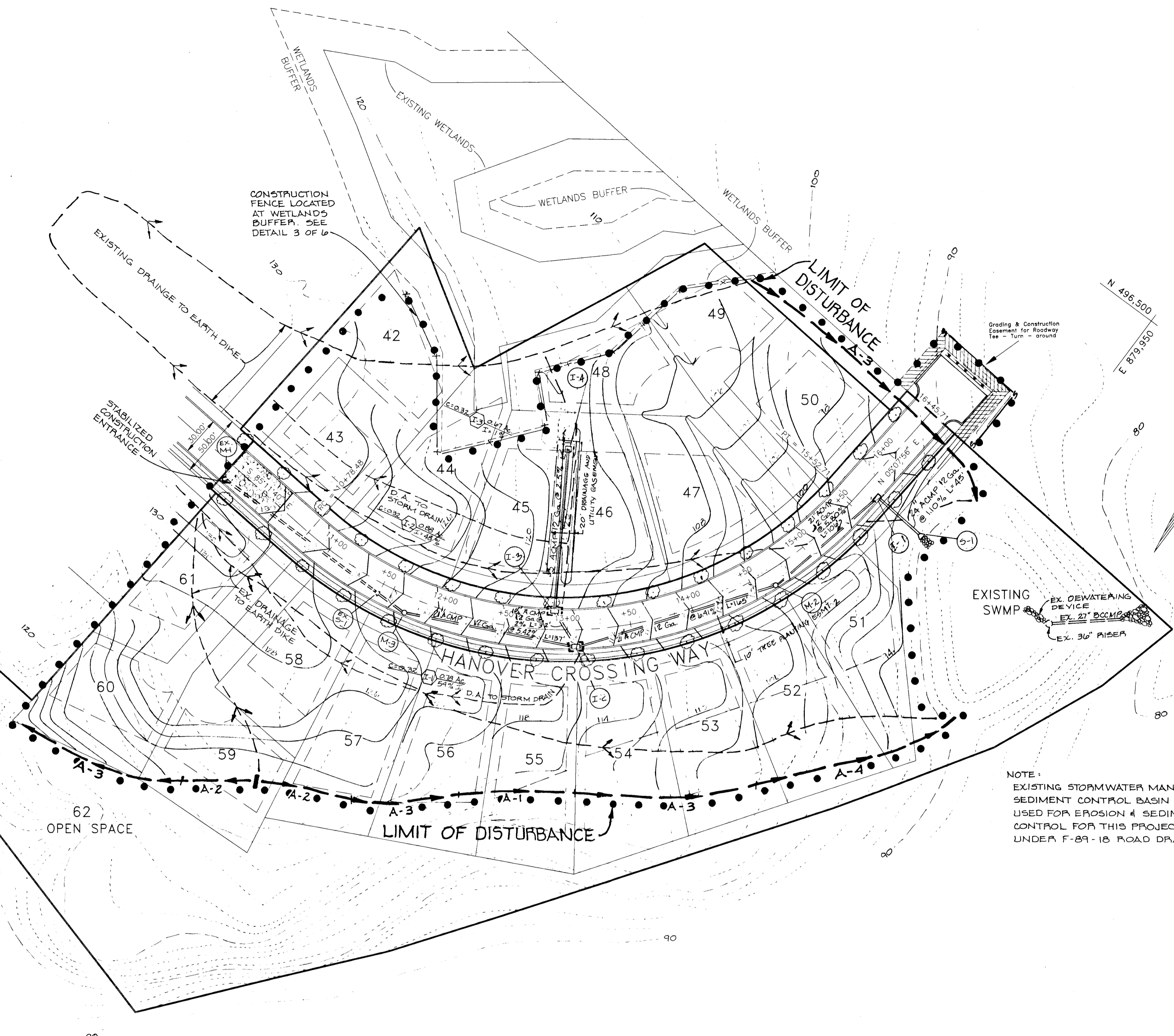
NOTE: EXISTING STORMWATER MANAGEMENT/ SEDIMENT CONTROL BASIN SHALL BE USED FOR EROSION & SEDIMENT CONTROL FOR THIS PROJECT. (APPROVED UNDER F-89-18 ROAD DRAWINGS)

LEGEND
 - - - - - EARTH DIKE
 [Symbol] INLET PROTECTION
 [Symbol] LIMIT OF DISTURBANCE
 [Symbol] STABILIZED CONSTRUCTION ENTRANCE W/M. BEAM
 [Symbol] SILT FENCE
 [Symbol] DRAINAGE DIVIDES

OWNER
 J.N.D.C. Limited Partnership
 5570 Sterrett Place, Suite 201
 Columbia, Maryland 21044
 Phone: (410) 997-4430
 Phone: (301) 596-3887

DEVELOPER
 NEWBURN DEVELOPMENT CORPORATION
 5570 Sterrett Place, Suite 201
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ENGINEER
 JOSE ESCALANTE P.E.
 6623 Hunters Wood Circle
 Baltimore, Maryland 21228
 Phone: (410) 788-8930



NEWBURN DEVELOPMENT CORPORATION
 5570 Sterrett Place, Suite 201
 Columbia, Maryland 21044
 Phone: (410) 997-4430
 Phone: (301) 596-3887

Jose Escalante 9/18/93
 PROFESSIONAL ENGINEER SEAL

DES: DPH					
DRN: DPH					
CHK: J.E.					
DATE: 9-18-93	BY	NO	REVISION	DATE	

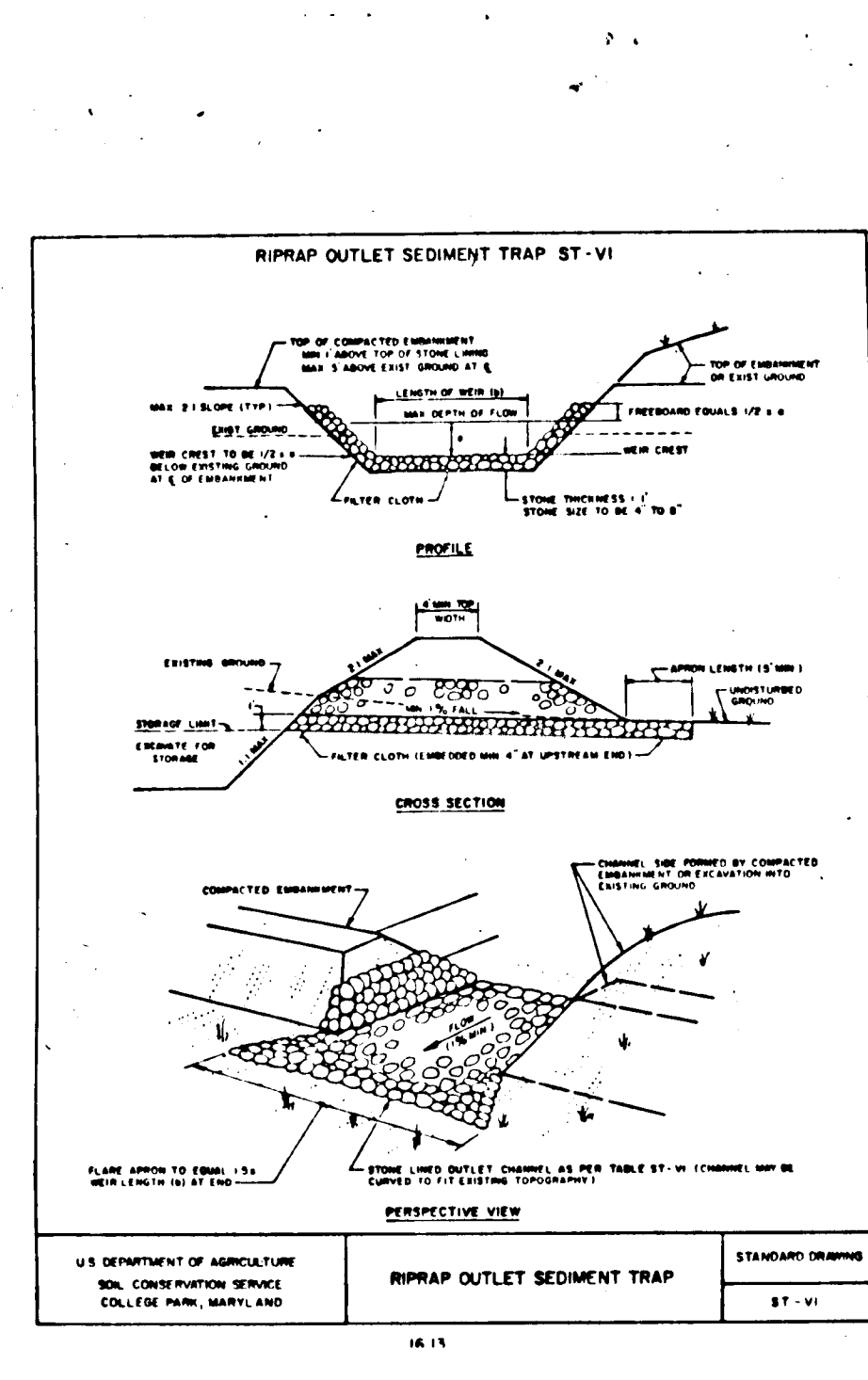
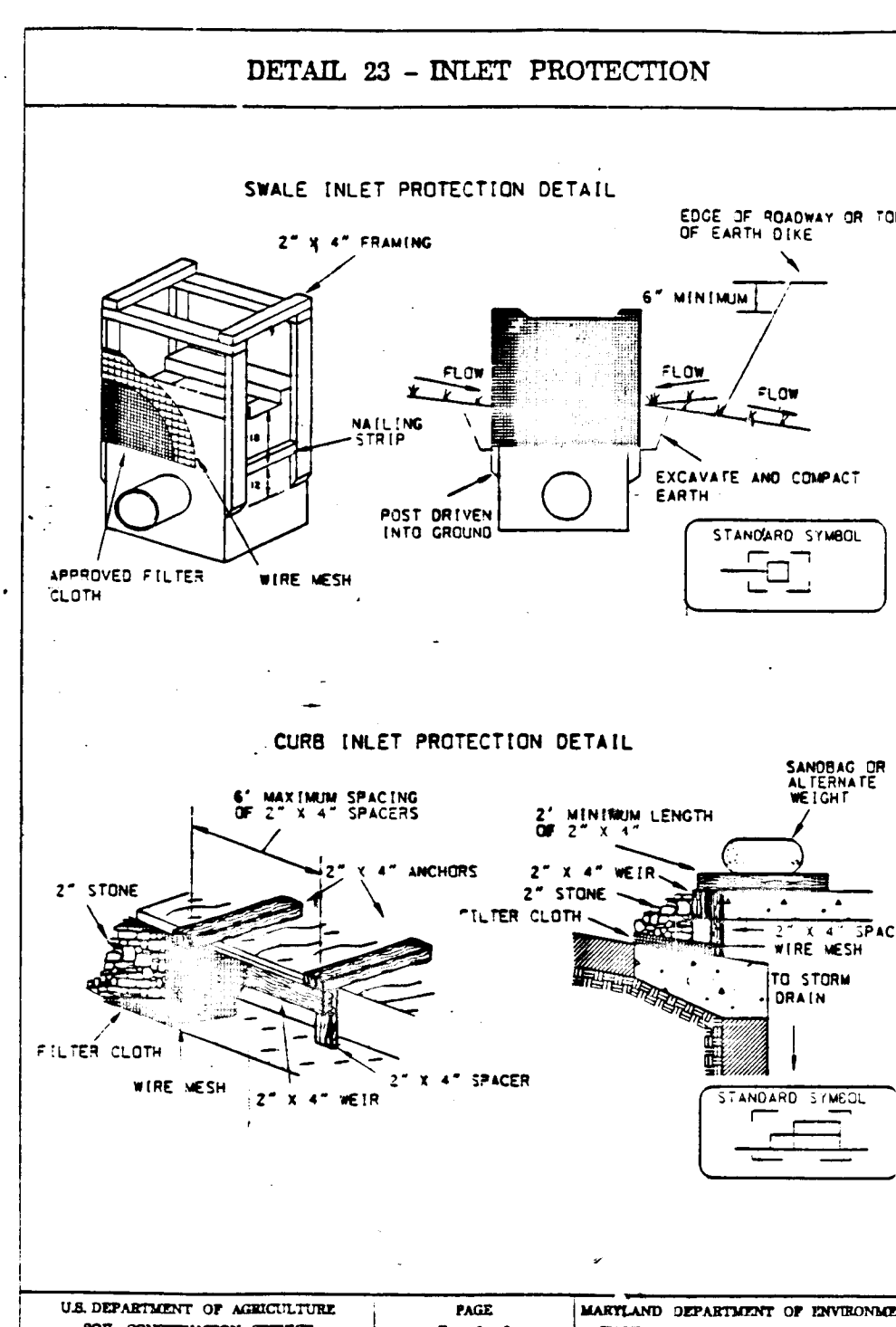
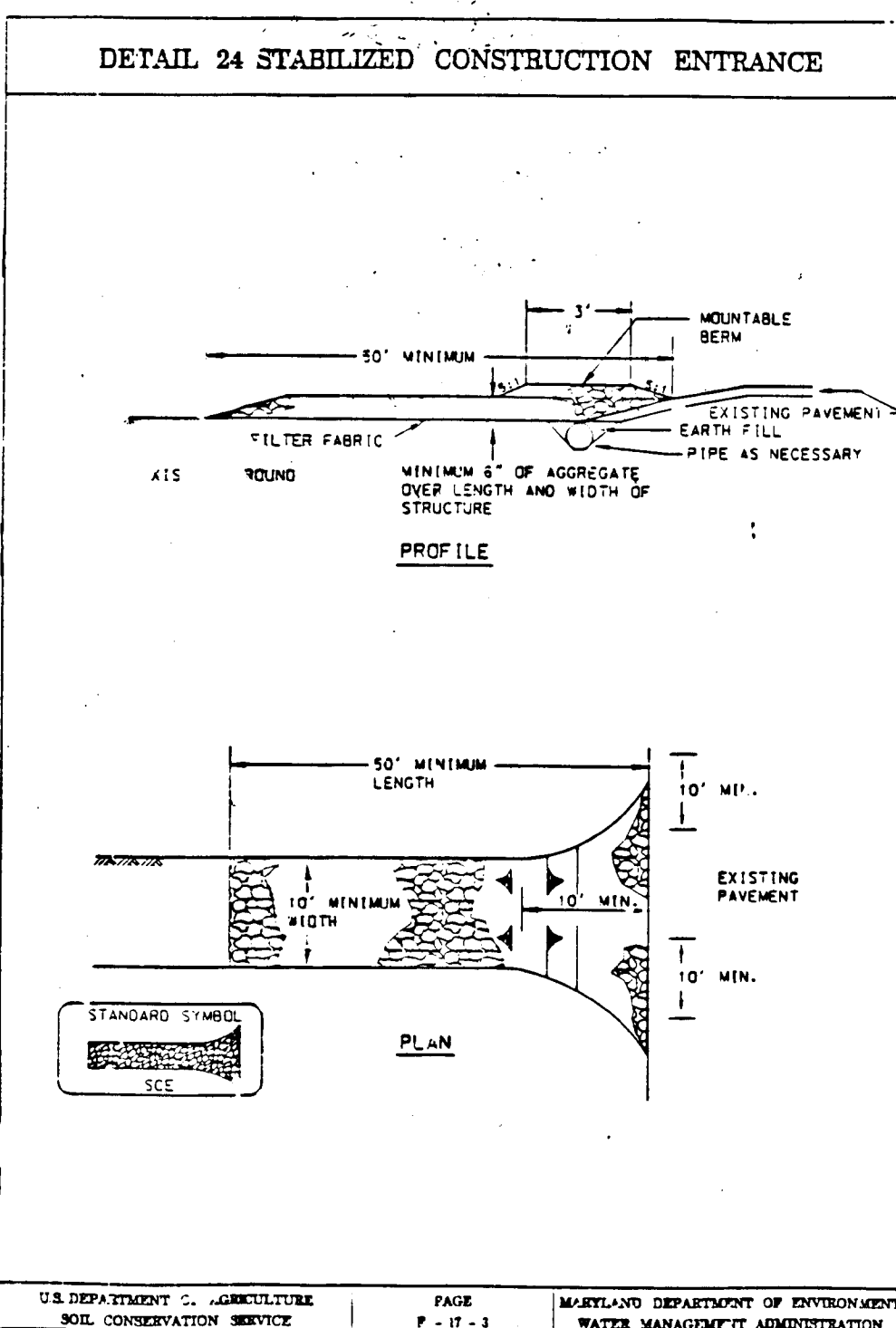
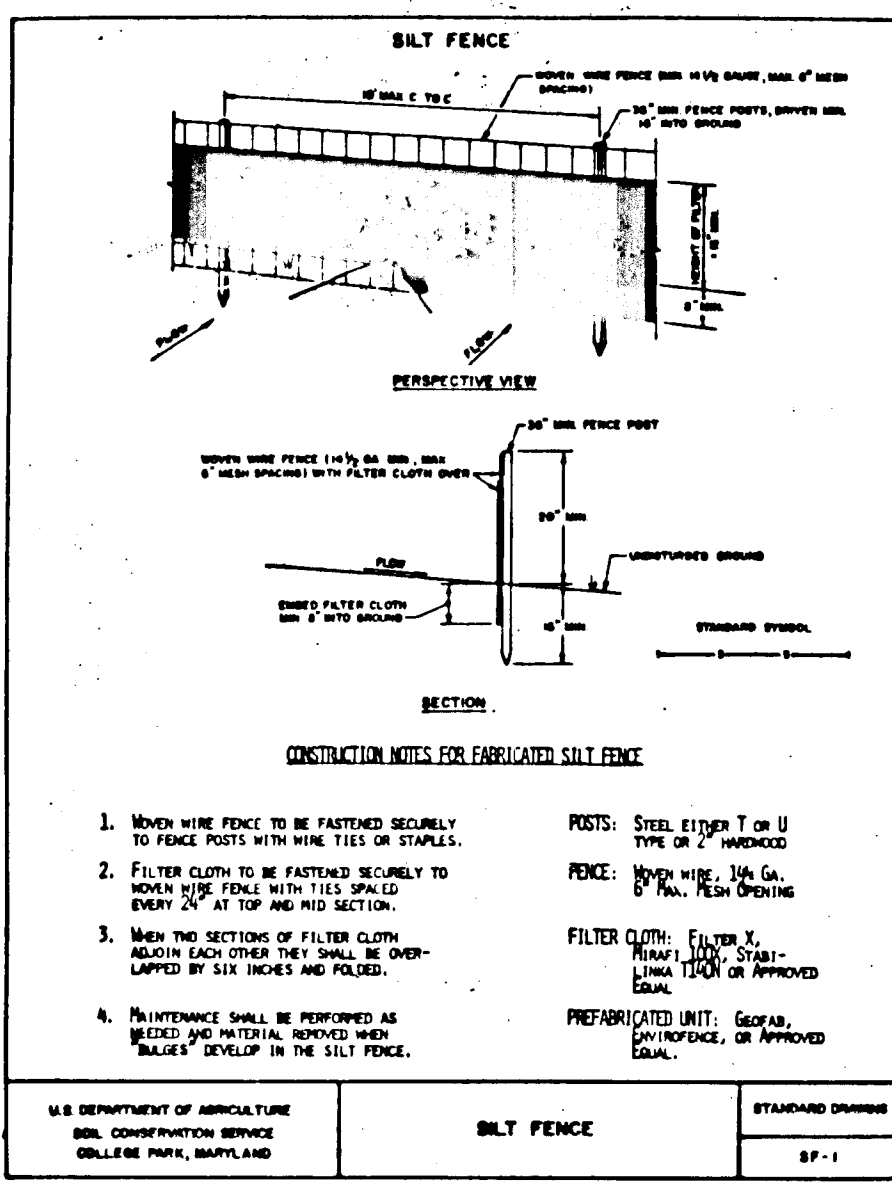
GRADING & SEDIMENT CONTROL PLAN
 600' SCALE MAP NO. 38 BLOCK NO. 15

HANOVER CROSSING
 SECTION THREE
 LOTS 42 THRU LOTS 62
 TAXMAP 38 PARCEL 266
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1"=50'
 SHEET 4 of 6

1631

F 94-30



SILT FENCE

Construction Specifications:

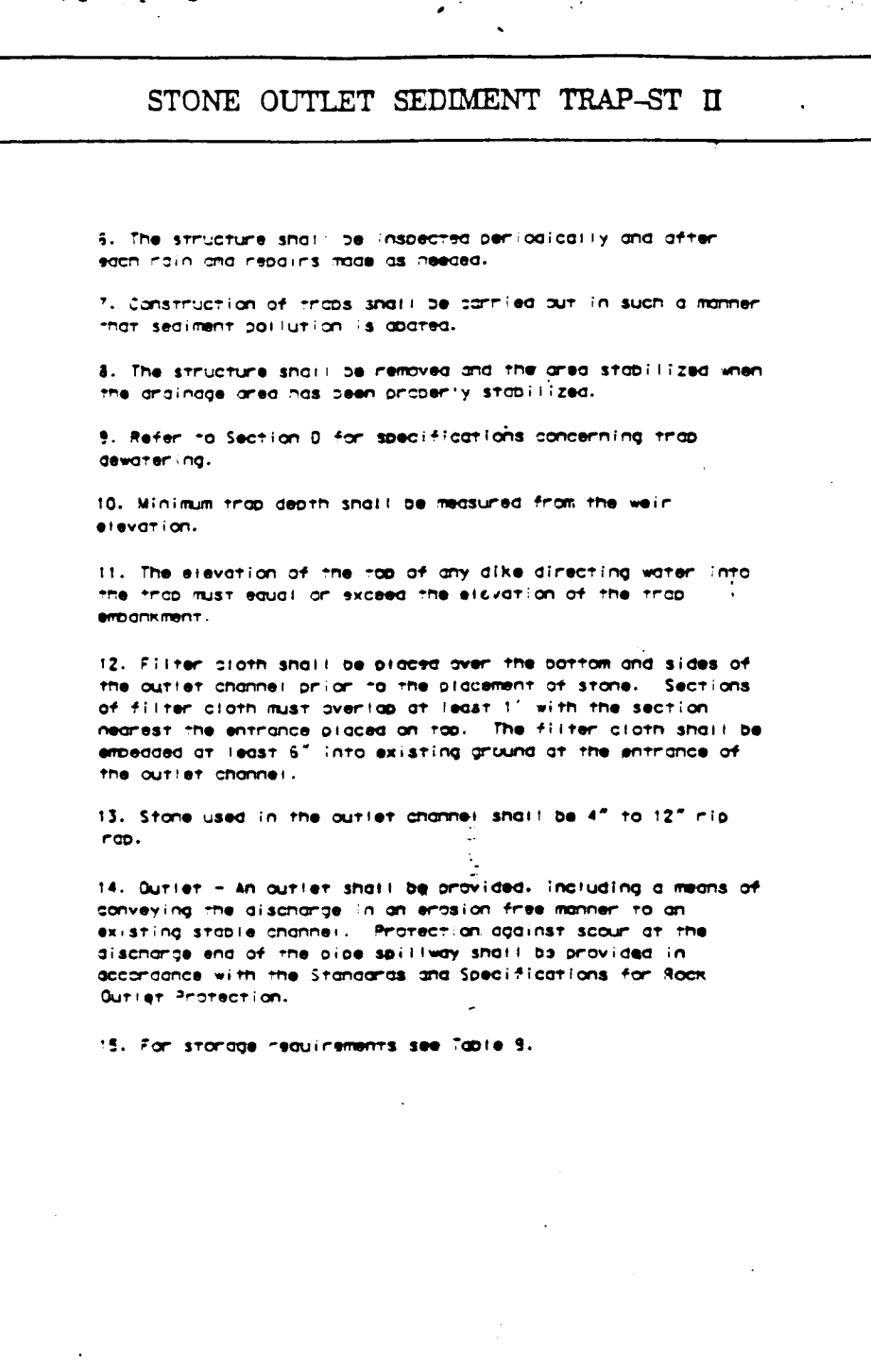
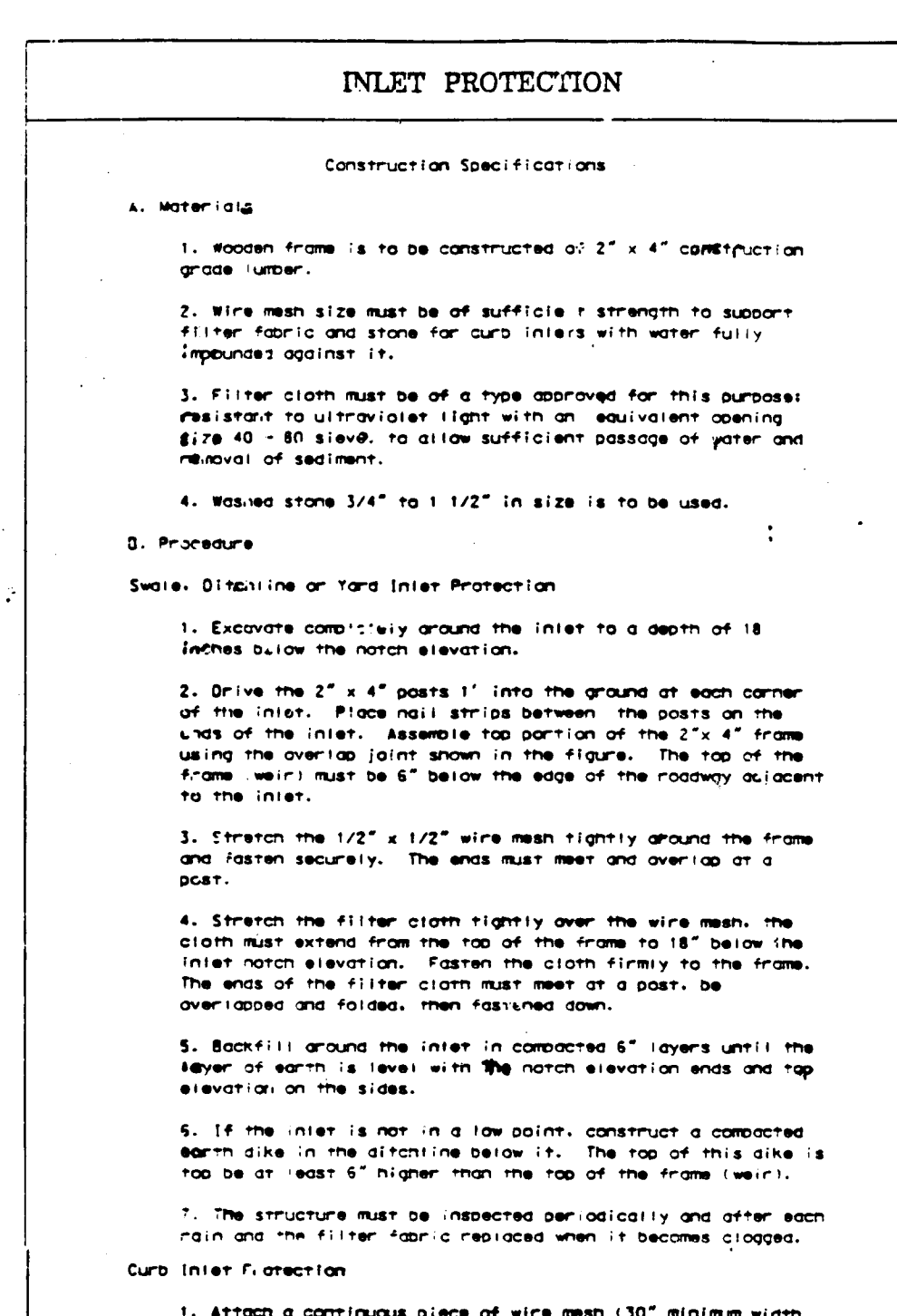
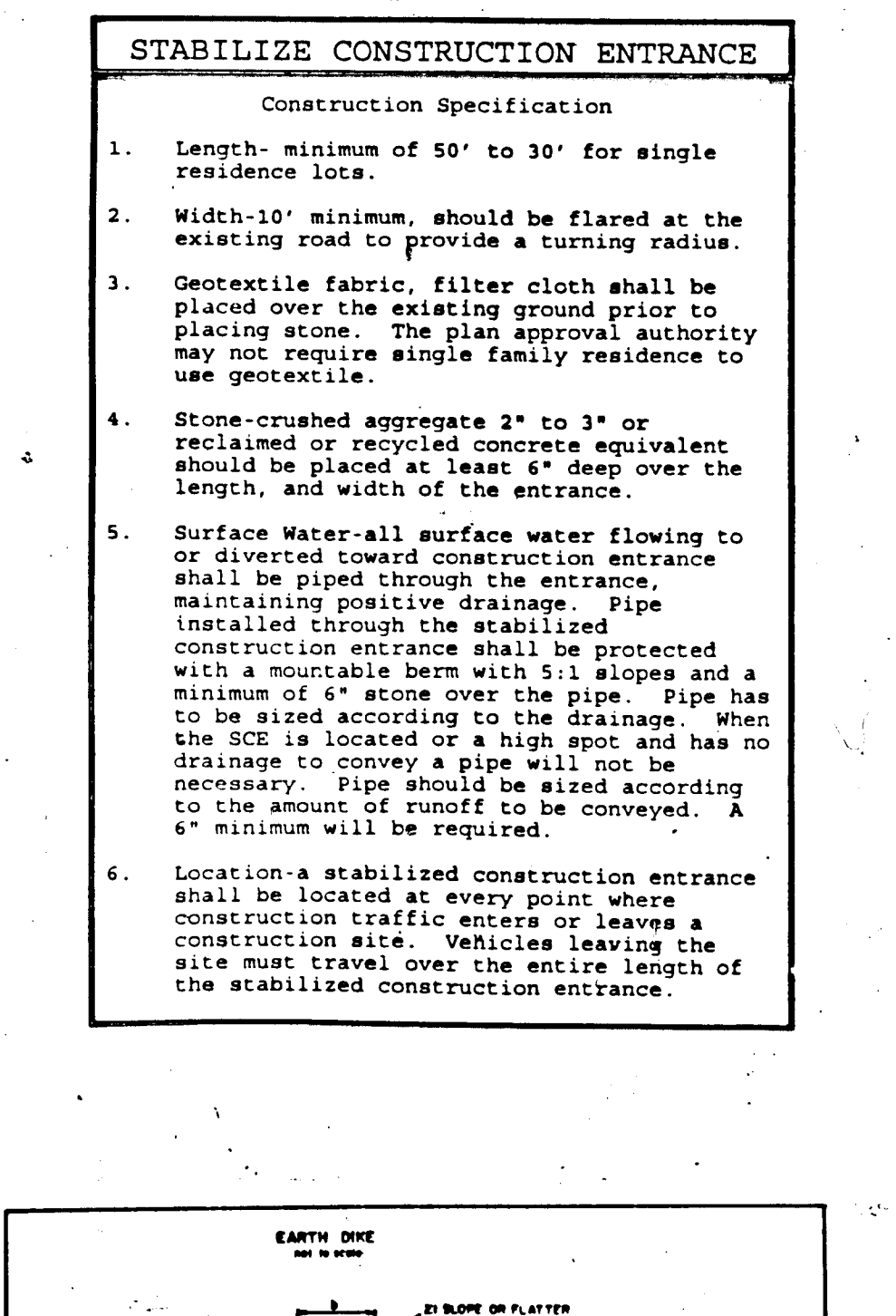
1. A detail of the silt fence shall be shown on the plan, and contain the following minimum requirements:
 - a. The type, size, and spacing of fence posts.
 - b. The type of filter cloth used.
 - c. The method of fastening the filter cloth to the fence posts.
 - d. Accumulated sediment must be removed when it reaches 50% of the height of the fabric.
2. Where ends of filter cloth come together, they shall be overlapped, fastened and staked to prevent sediment bypass.
3. Design computations are not required.
4. All silt fences shall be placed as close to the contour as possible.
5. The area below the fence must be undisturbed or stabilized.
6. Silt Fence Fabric: The fabric shall meet the Filter Fabric specifications listed in Table 27.
7. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long, wood posts, 1" x 2", with a minimum cross sectional area of 3.0 square inches will be of adult quality hardwood. Stone posts will be spaced 7' or 8' on center depending on the amount of runoff to be conveyed. A 6" minimum will be required.

Silt Fence Design Criteria

Slope Steepness	(Maximum) Silt Length	(Maximum) Silt Fence Length
Flatter than 50:1	Unlimited	Unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	80 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

NOTE: In areas of less than 12 inches and sandy soils (USDA general classification system, soil class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only permanent control required.

STANDARD DRAWING: E-18-2



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 conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

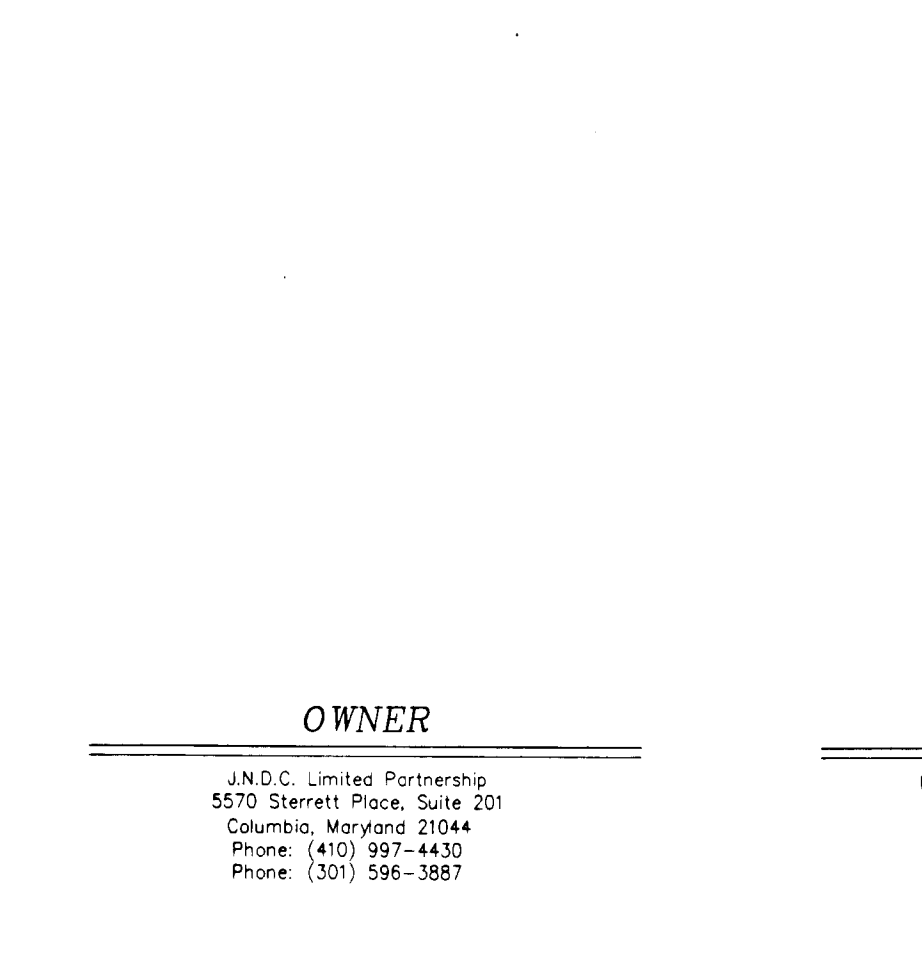
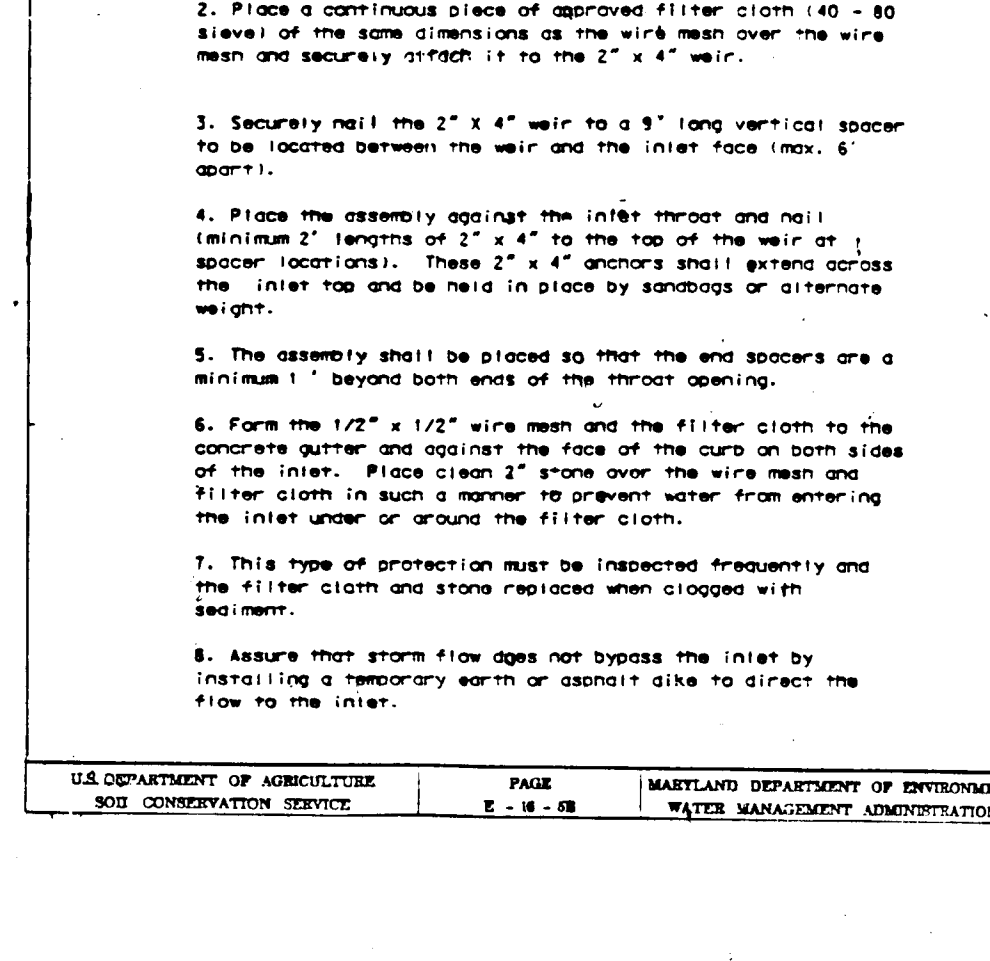
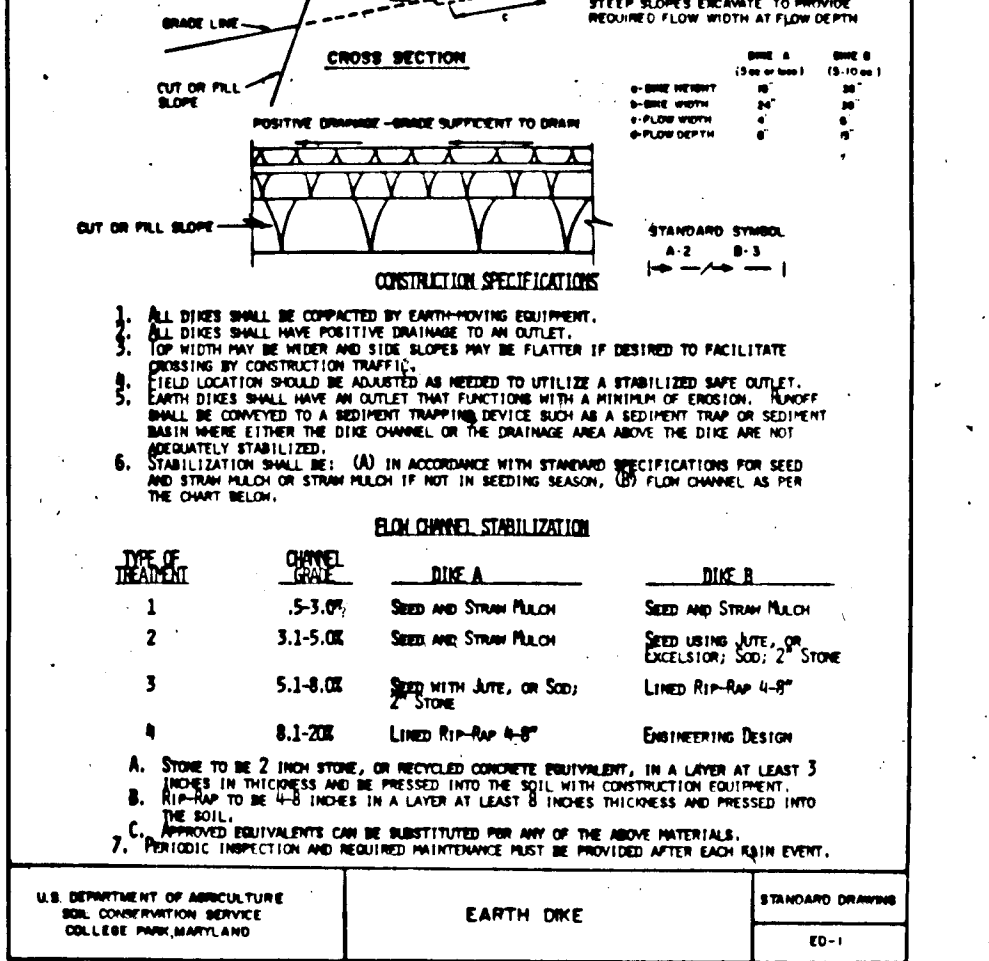
Joseph Escalante 9/18/93
Date

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspections by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

JMDC LIMITED PARTNERSHIP
By: NEWBURN DEVELOPMENT CORPORATION
By: JAMES L. NEWBURN, PRESIDENT

James L. Newburn 9-20-93
Date



SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction. (410) 313-2437
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 most current Maryland Standards and Specifications for Soil Erosion and Sediment Control.
3. Following initial soil disturbances or re-disturbance, 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 calendar days as to all other disturbed or graded areas on the project site.
4. 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.
5. All sediment control structures are to remain in place and are to be maintained in operative condition until permanent for their removal has been obtained from the Howard County Sediment Control Inspector.
6. Site Analysis:

Total Area of Site:	7.7 Acres
Area to be Disturbed:	5.3 Acres
Area to be vegetatively stabilized:	4.7 Acres
Total Cut:	5000 Cu. Yds.
Total Fill:	7000 Cu. Yds.
7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
9. 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.
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, and 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. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

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/1000 sf).

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared area 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 on the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) 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 (8 lbs/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (14 lbs/1000 sf) of Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period October 16 through 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: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

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

SEQUENCE OF CONSTRUCTION

1. Obtain grading permits.
2. Install stabilized construction entrance. Construct sediment trap and stabilize with temporary seeding.
3. Install earth dike, mountable berm, and silt fence.
4. Grade site and construct roads and storm drains.
5. During construction and after each rainfall, the contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown herein.
6. Remove stabilized construction entrance.
7. Clean base course. Apply tack coat to base course. Stabilize all shoulders using permanent seeding.
8. All disturbed areas due to removal of sediment control measures shall be graded and stabilized by permanent seeding.
9. Install rip rap apron.
10. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1; b) 14 calendar days as to all other disturbed or graded areas on the project site.
11. After all construction and grading are completed in Sections 1, 2 and 3, and all areas are stabilized, convert pond to stormwater management.
12. Stabilize with permanent seeding.
13. Notify Howard County Office of Inspections and Permits for final inspection at completion of project. (410) 313-2437

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Patricia Engle 5/6/94
U.S. SOIL CONSERVATION SERVICE DATE

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

John R. Robertson 5/6/94
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Bill Dawson 5/24/94
CHIEF, LAND DEVELOPMENT DIVISION M.K. DATE

Andrew M. Daniels 5-17-94
CHIEF, BUREAU OF HIGHWAYS HS DATE

Paul D. Eason 5/25/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

Gina Summery 5/24/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

OWNER J.M.D.C. Limited Partnership
5570 Sterrett Place, Suite 201
Columbia, Maryland 21044
Phone: (410) 997-4430
Phone: (301) 596-3887

DEVELOPER NEWBURN DEVELOPMENT CORPORATION
5570 Sterrett Place, Suite 201
Columbia, Maryland 21044
Phone: (410) 997-4430
Phone: (301) 596-3887

ENGINEER Jose Escalante P.E.
6623 Hunters Wood Circle
Baltimore, MD. 21228
(410) 788-8930

NEWBURN DEVELOPMENT CORPORATION
5570 Sterrett Place, Suite 201
Columbia, Maryland 21044
Phone: (410) 997-4430
Phone: (301) 596-3887

Joseph Escalante 9/18/93

DES: DP/H
DRN: DP/H
CHK: JE
DATE: 9-18-93

SEDIMENT AND EROSION CONTROL DETAILS

HANOVER CROSSING
SECTION THREE
LOTS 42 THRU LOTS 62
TAXMAP 38 PARCEL 266
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

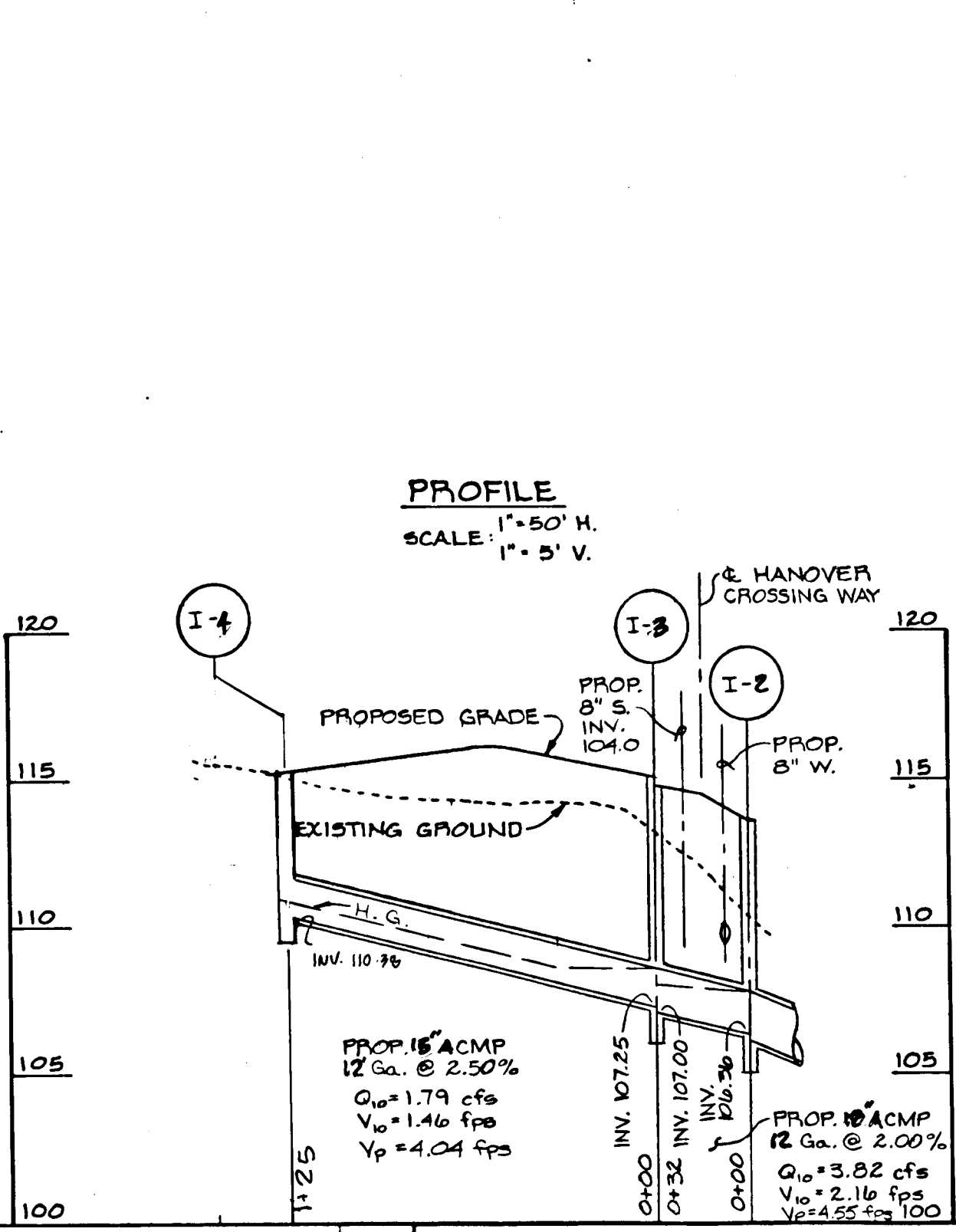
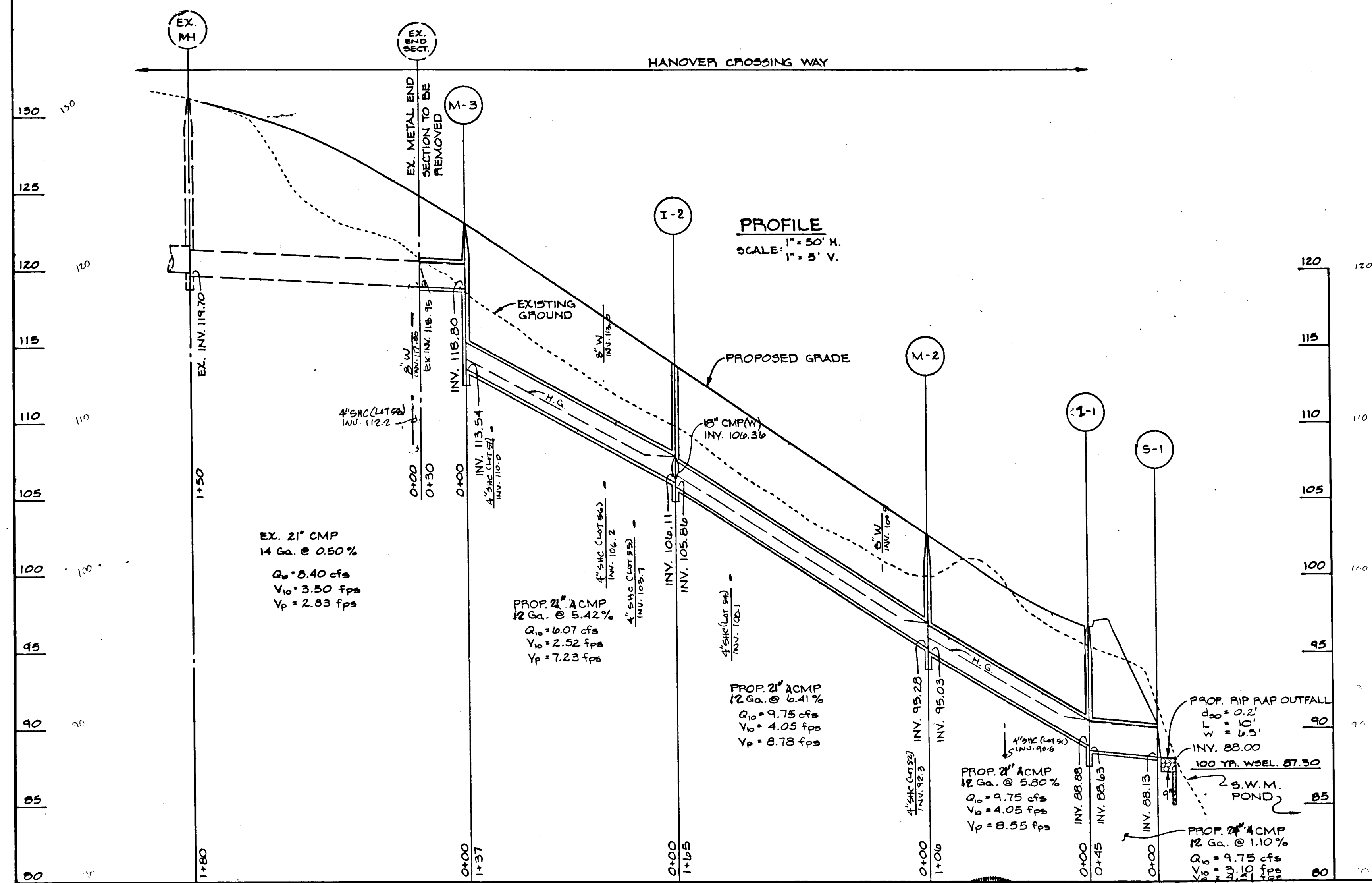
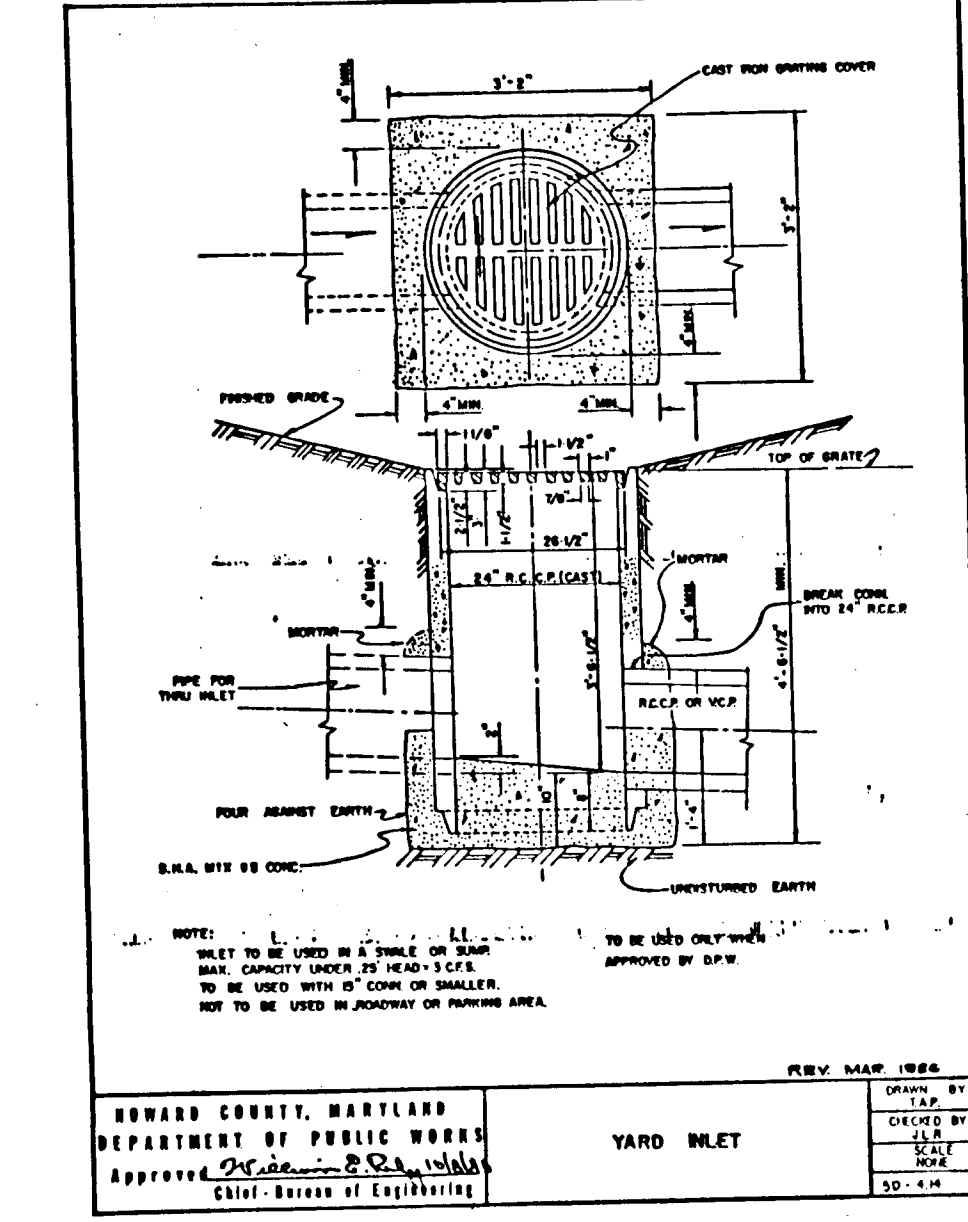
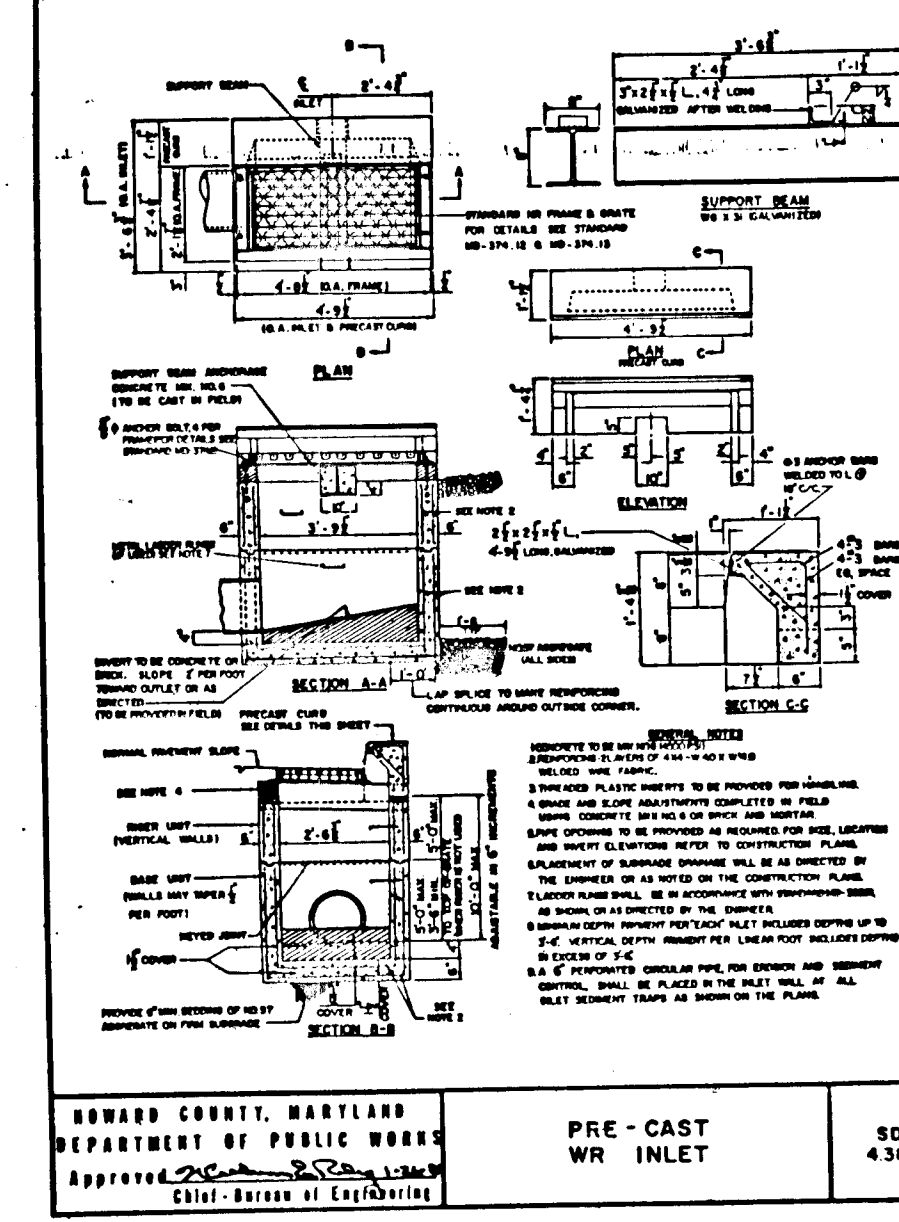
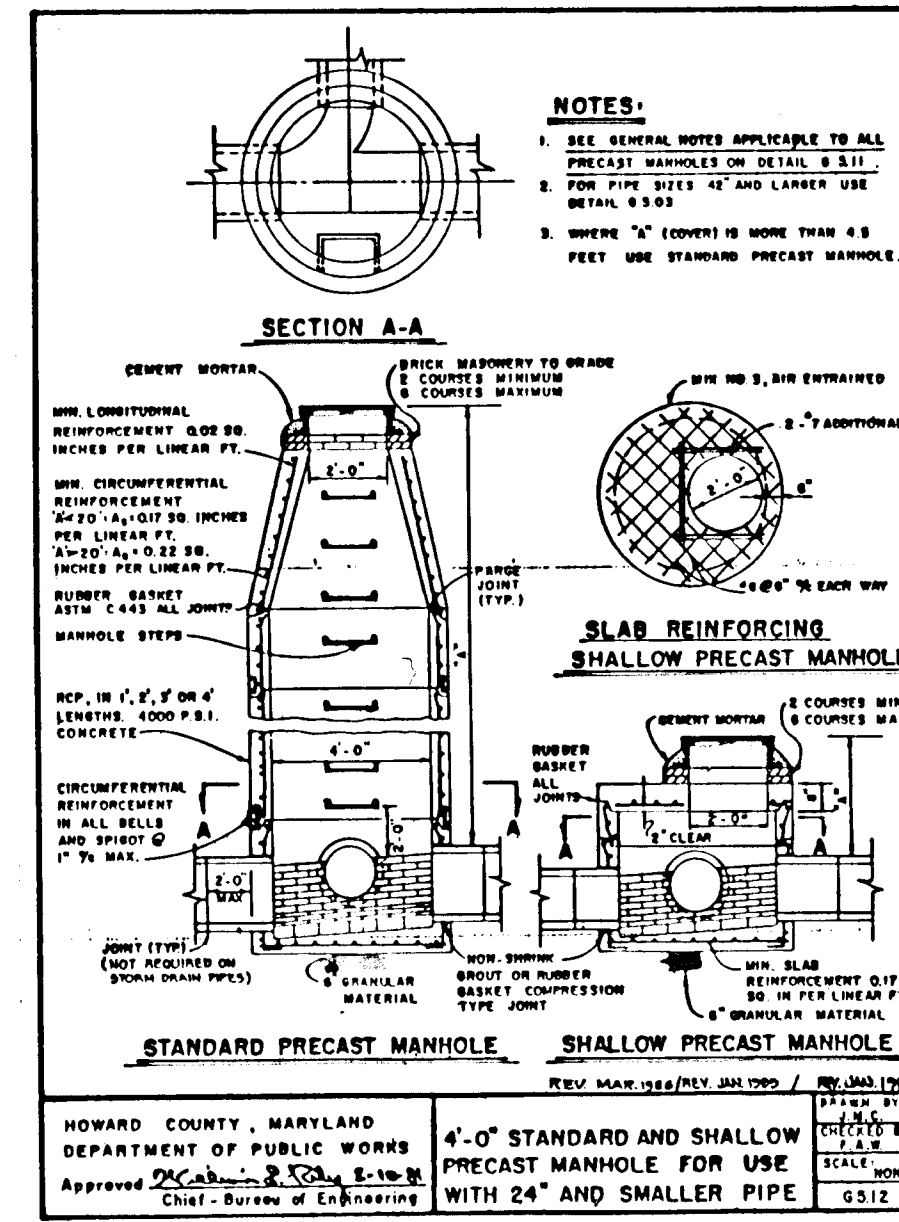
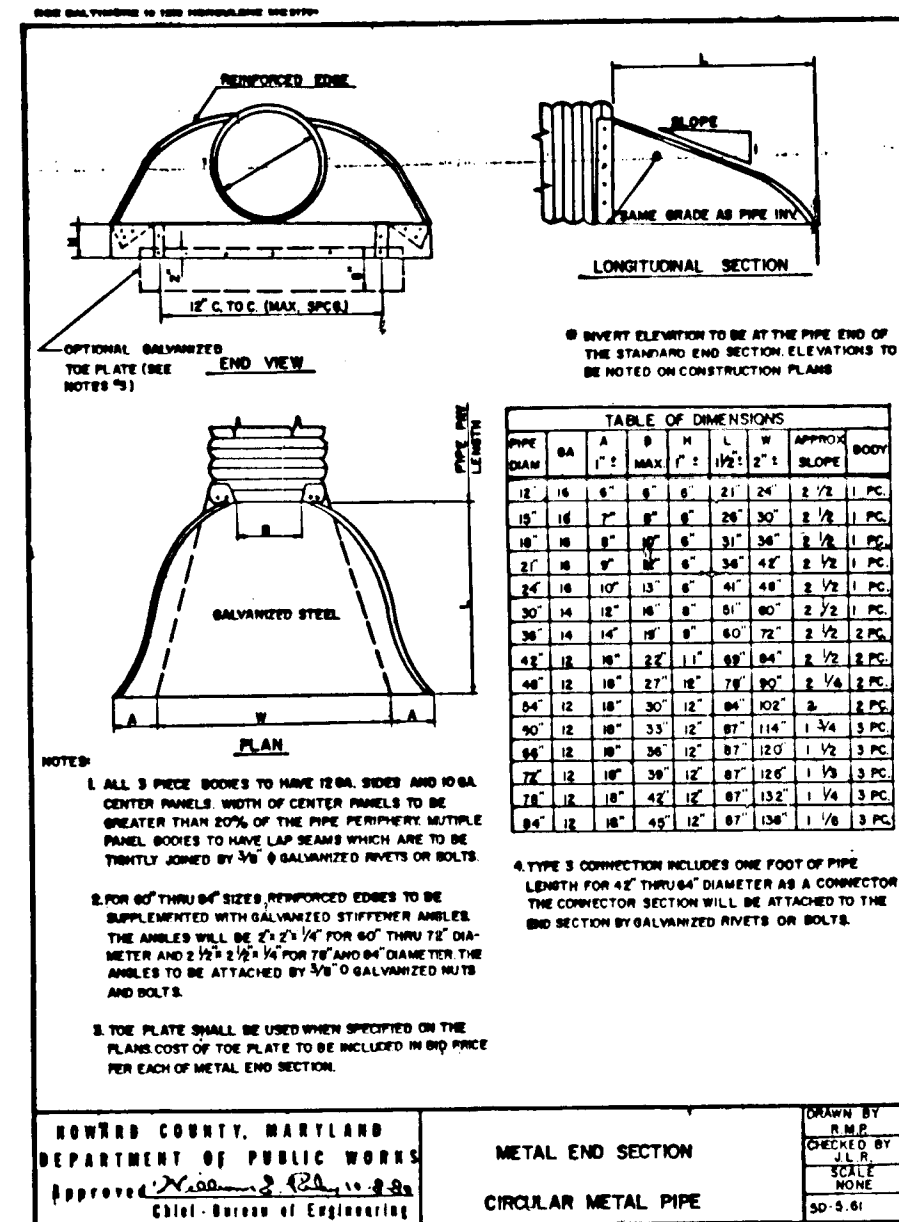
SCALE AS SHOWN
SHEET 5 of 6

F 94-30

1631

STRUCTURE SCHEDULE									
No.	SIZE	INV. IN	SIZE	INV. IN	SIZE	INV. OUT	TOP ELEV.	LOCATION	TYPE
I-1	21"	88.00		24"	88.63	96.82		STA. 15+70 H. C. WAY 12' P.	WR*
M-2	21"	95.28		21"	95.03	102.45		STA. 14+67 H. C. WAY 12' P.	STANDARD
M-3	21"	118.00		21"	113.54	123.07		STA. 11+78 H. C. WAY 12' P.	DROPPED
I-2	21"	106.11	15"	106.36	21"	105.86	113.55	STA. 13+10 H. C. WAY 15' P.	WR*
I-3	15"	107.25		18"	107.00	114.74		STA. 12+93 H. C. WAY 15' L.	WR*
I-4				15"	110.38	115.20		YARD INLET	WR*
S-1				24"	88.13	90.13		STA. 15+70 H. C. WAY 57' P.	END SECT.*

* STD. DETAIL 20.4-38
 ** STD. DETAIL 20.5-12
 *** STD. DETAIL 21-82
 + STD. DETAIL 20.4-18
 + STD. DETAIL 20.5-21



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John Danman 5/20/93
 CHIEF, LAND DEVELOPMENT DIVISION M.I.C. DATE

Andrew M. Daniels 5-17-93
 CHIEF, BUREAU OF HIGHWAYS DATE

Paul L. Larson 5/23/93
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

John Swann 5/23/93
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

ENGINEER: Jose Escalante P.E.
 6623 Hunters Wood Circle
 Baltimore, MD. 21228
 (410) 788-8930

OWNER: J.N.D.C. LIMITED PARTNERSHIP
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 5570 Sterrett Place
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 (410) 997-4430

DEVELOPER: NEWBURN DEVELOPMENT CORP.
 Suite 201
 5570 Sterrett Place
 Columbia, MD. 21044
 (410) 997-4430

DES: DPH
 DRN: DPH
 CHK: JE
 DATE: 9-18-93

BY NO. REVISION

DATE 600 SCALE MAP NO. 38 BLOCK NO. 12

STORM DRAIN PROFILES AND DETAILS

HANOVER CROSSING
 SECTION THREE
 LOTS 42 THRU LOTS 52
 TAXMAP 38 PARCEL 266
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND