

VICINITY MAP
SCALE: 1" = 2640'

DESIGN SPEED
Health Park Drive : 35 mph
Town & Country Blvd : 25 mph

PROPERTY OF
FRED A. KAISER &
MARY D. KAISER
334/123

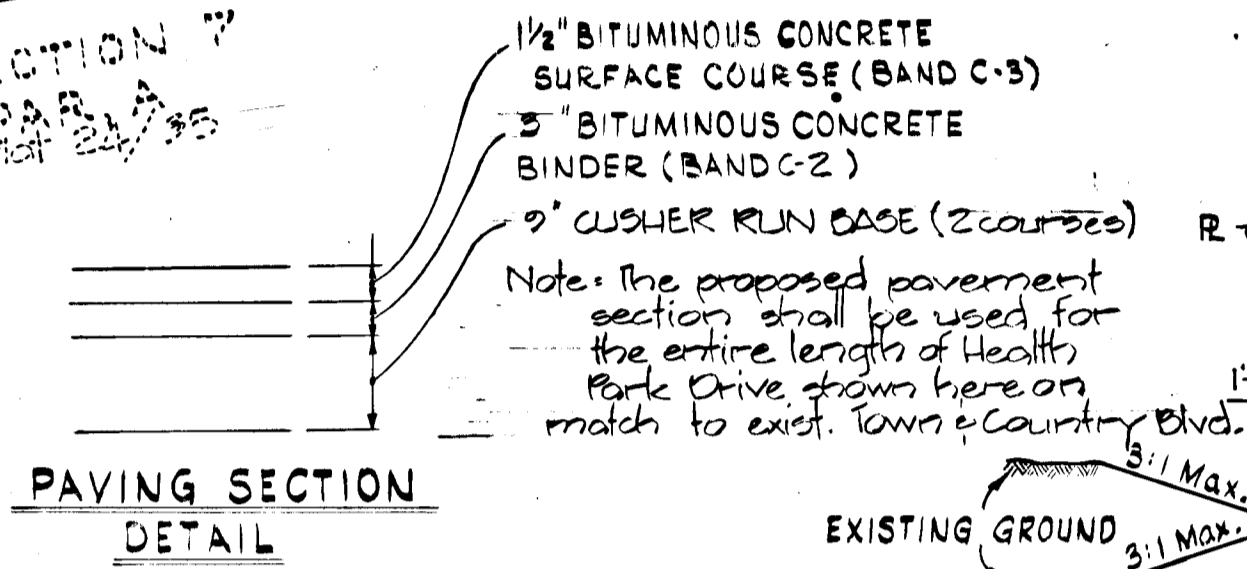
GENERAL NOTES

- PRESENT ZONING - P.O.R.
- TOTAL AREA OF PARCELS - 44.862 Ac.±
- PUBLIC WATER
- ALL ROAD CONSTRUCTION DETAILS UNLESS OTHERWISE NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE AND STD. SPECIFICATION.
- SEE SHEET 2 FOR SEDIMENT CONTROL DETAILS.
- ROAD CLASSIFICATION - MAJOR COLLECTOR

NOTES:

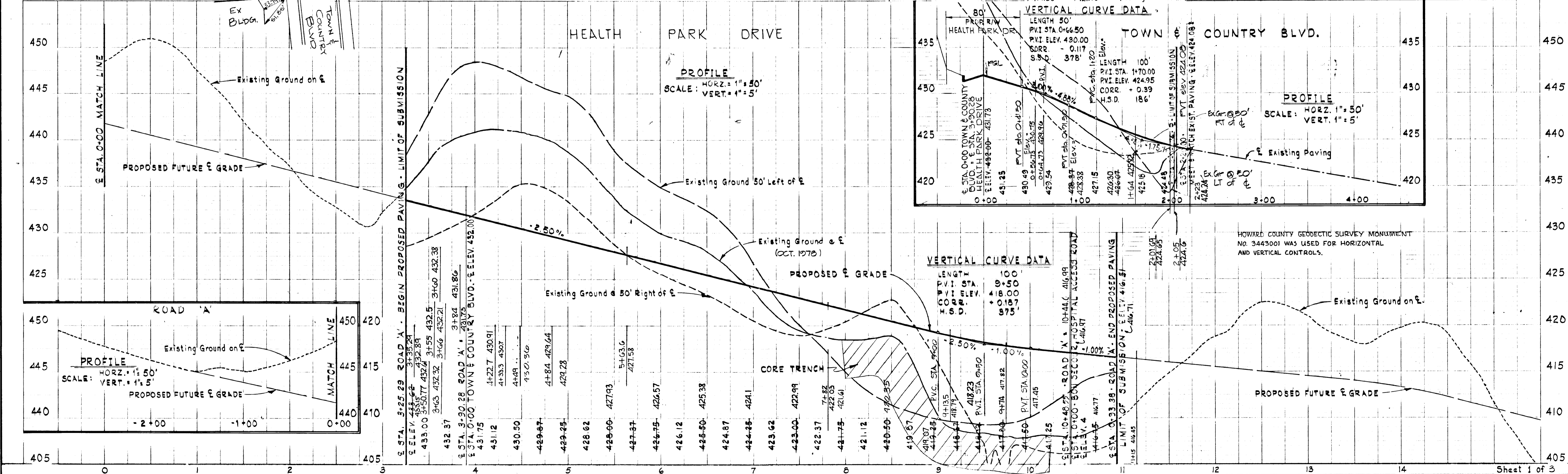
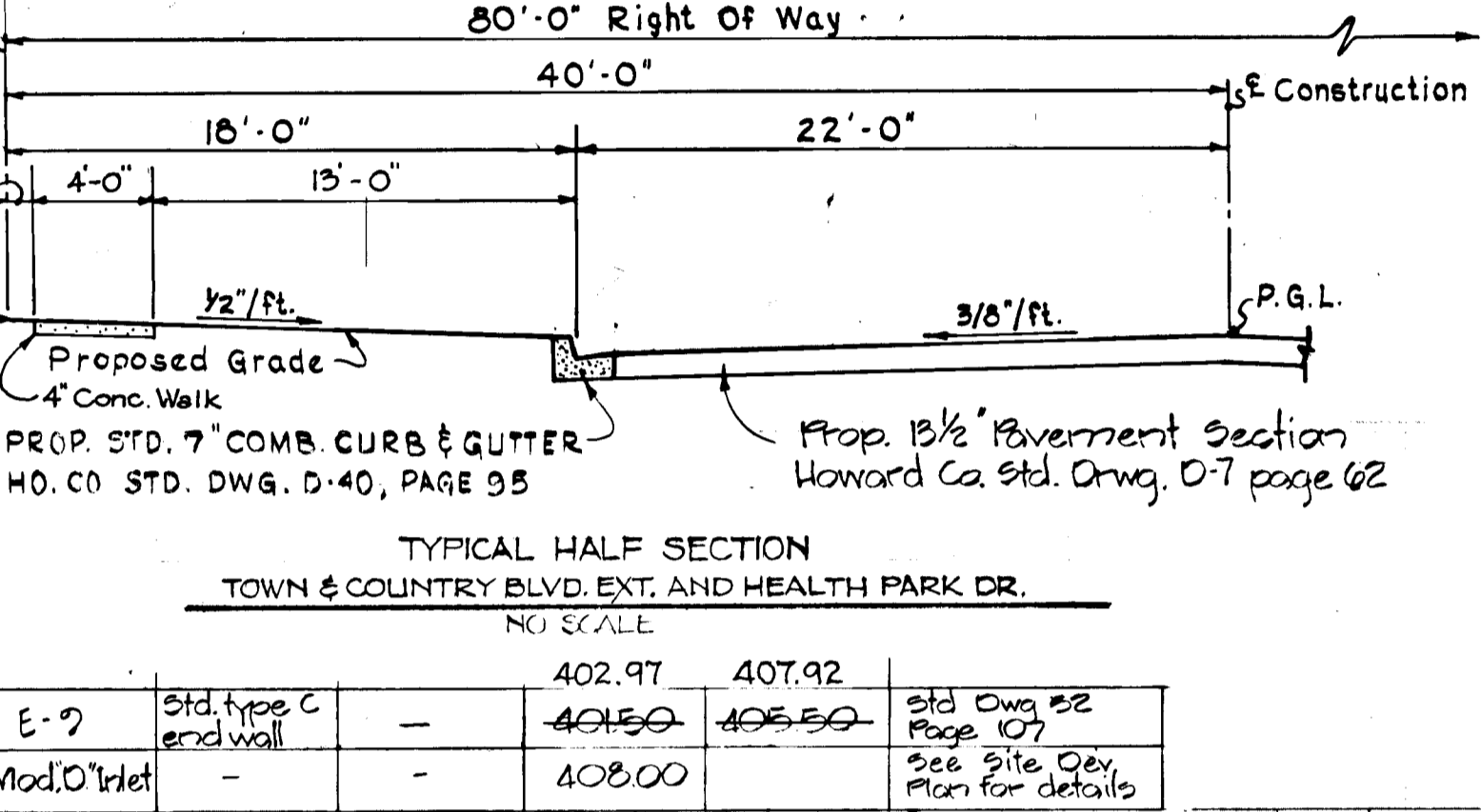
A. BITUMINOUS CONC. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3, AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STD. SPECIFICATION.

B. TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4, OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STD. SPECIFICATIONS.



STRUCTURE SCHEDULE

Struct. No.	Type	Inv. In	Inv. Out	Top El.	Remarks
I-10	A-5*	-	418.2852	422.3897	Std. Dwg. 64A Page 119A
I-11	A-5*	417.6664	417.9161	422.3899	Std. Dwg. 64A Page 119A
E-6	Std. Type C ENDWALL	-	416.2582	418.2582	Std. Dwg. D52 Page 107
E-7	Std. Type C ENDWALL	420.2556	-	422.00	Std. Dwg. D52 Page 107
E-8	Std. Type C ENDWALL	-	420.00	421.73	Std. Dwg. D52 Page 107



APPROVED: Department of Public Works.
Allen J. Brown 7/17/79
Chief, Bureau of Engineering

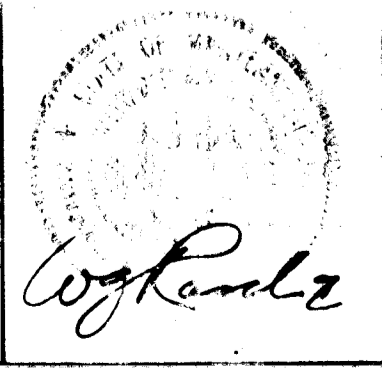
APPROVED: Howard County Office of Planning and Zoning.
Chief, Division of Transportation Planning
Chief, Division of Land Development

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic onsite inspection by the Howard County Conservation District or their authorized agents, as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard County Conservation District.

HOWARD SOIL CONSERVATION DISTRICT
Reviewed For Howard Soil Conservation District and Meets Technical Requirements.
Wendell Bendetto 7-5-79
U.S. Soil Conservation Service
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
APPROVED: *Wendell Bendetto* 7-5-79
Howard Soil Conservation District

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

PROFESSIONAL ENGINEER
I certify that this Plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the Site Conditions and that it was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.
William G. Rasch II 10/25/79
William G. Rasch II

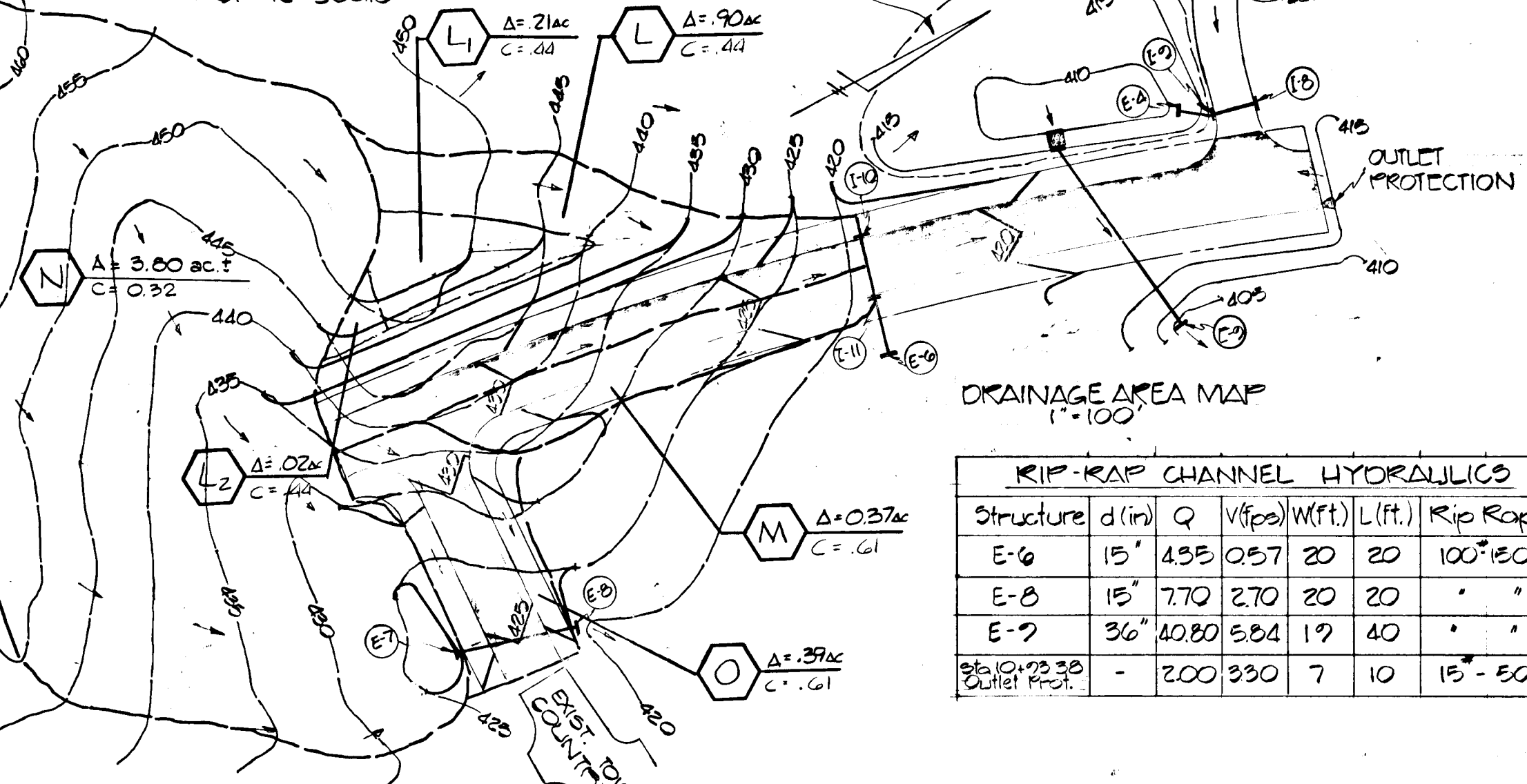
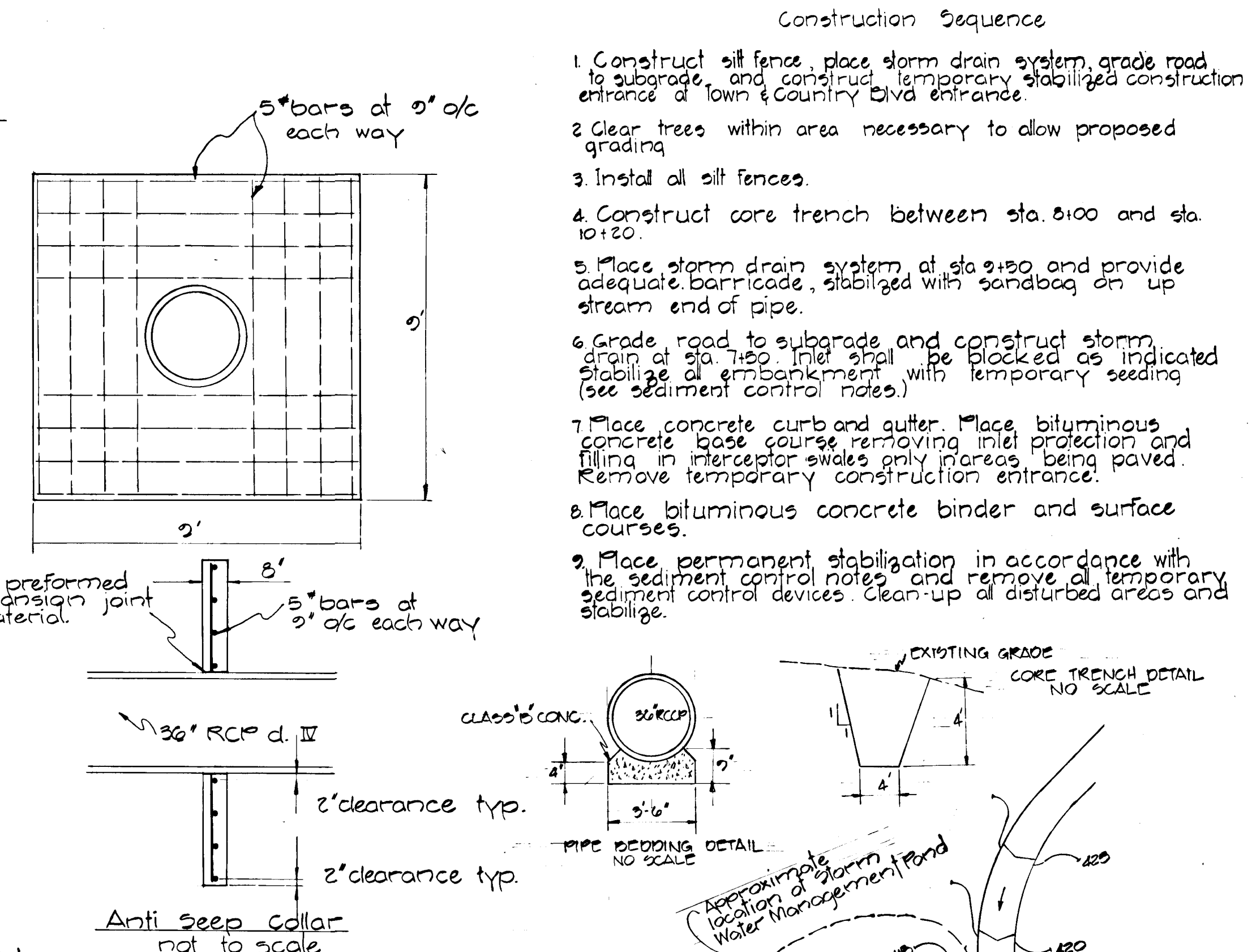
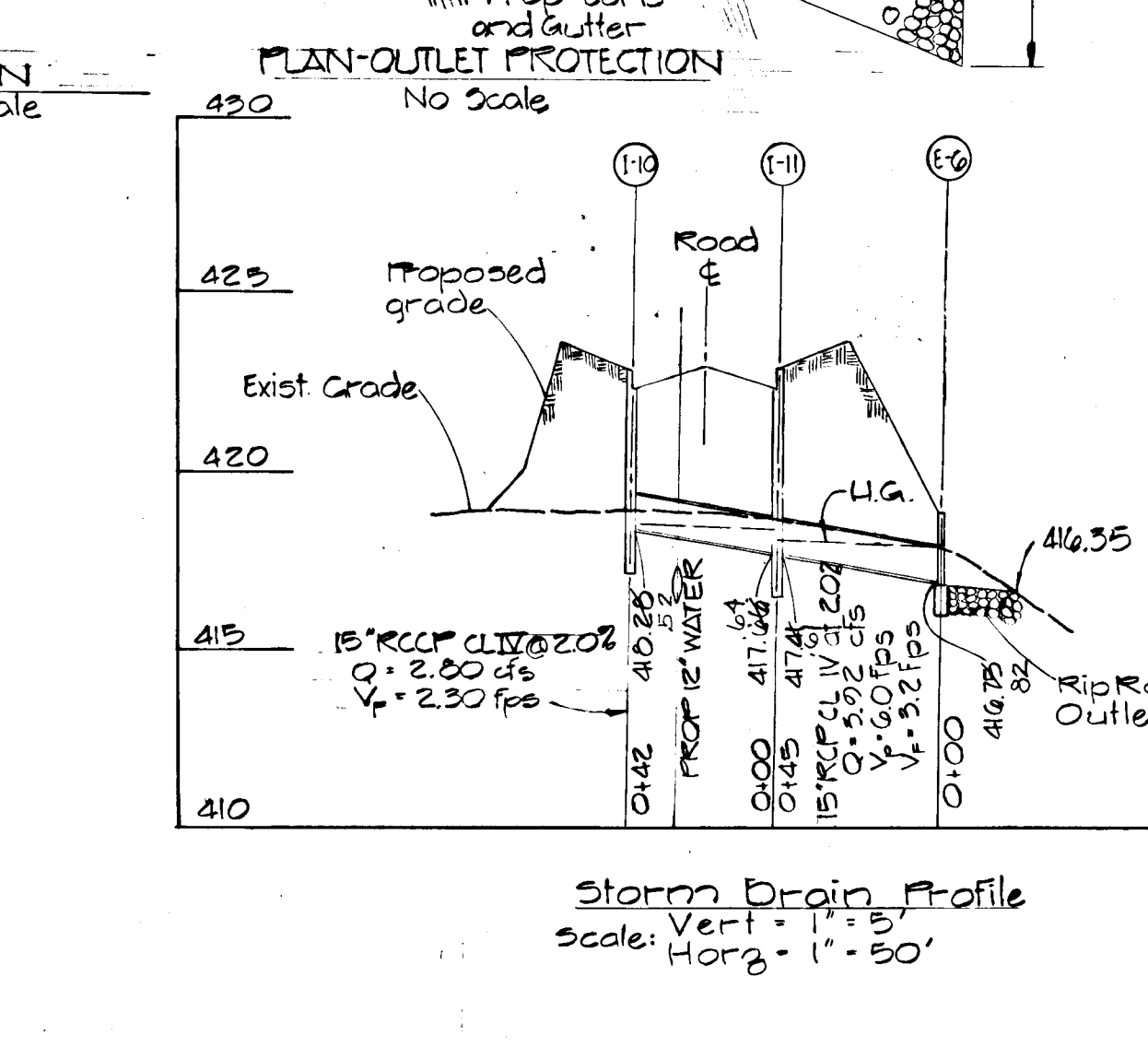
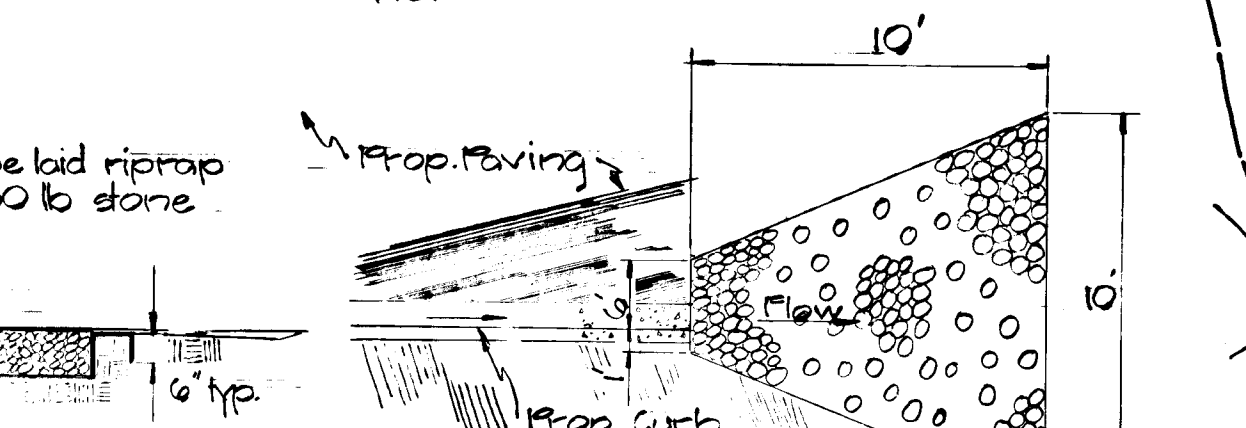
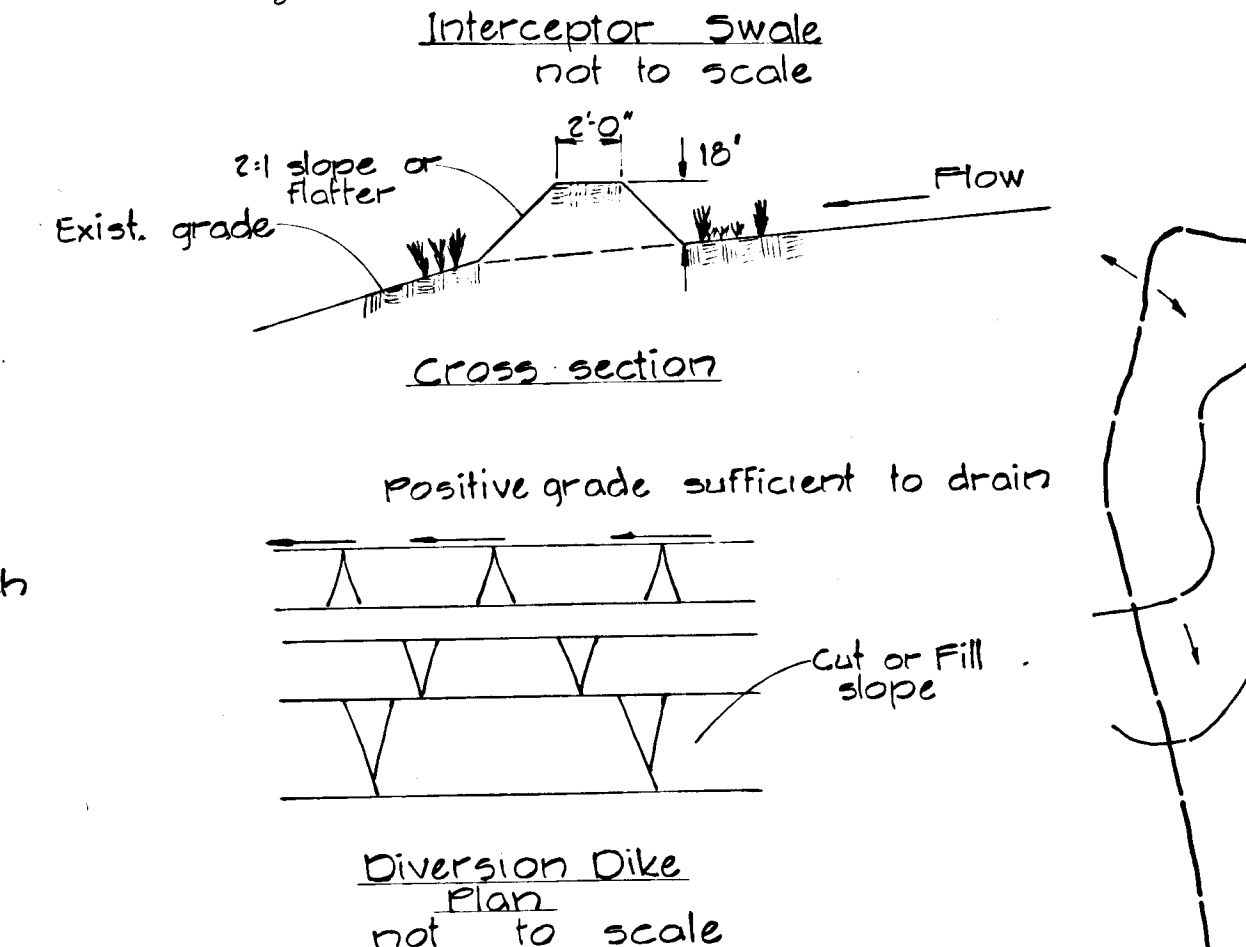
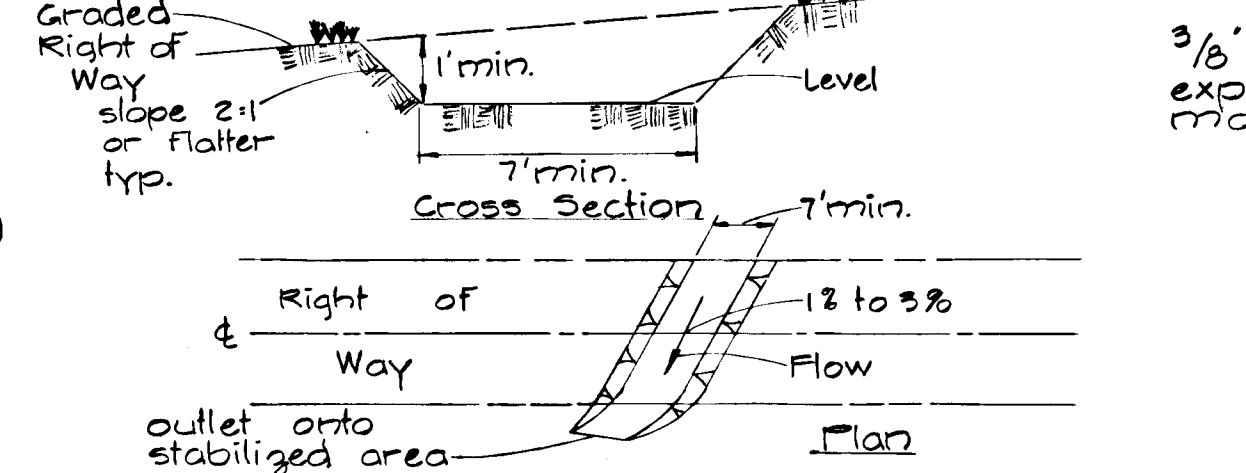
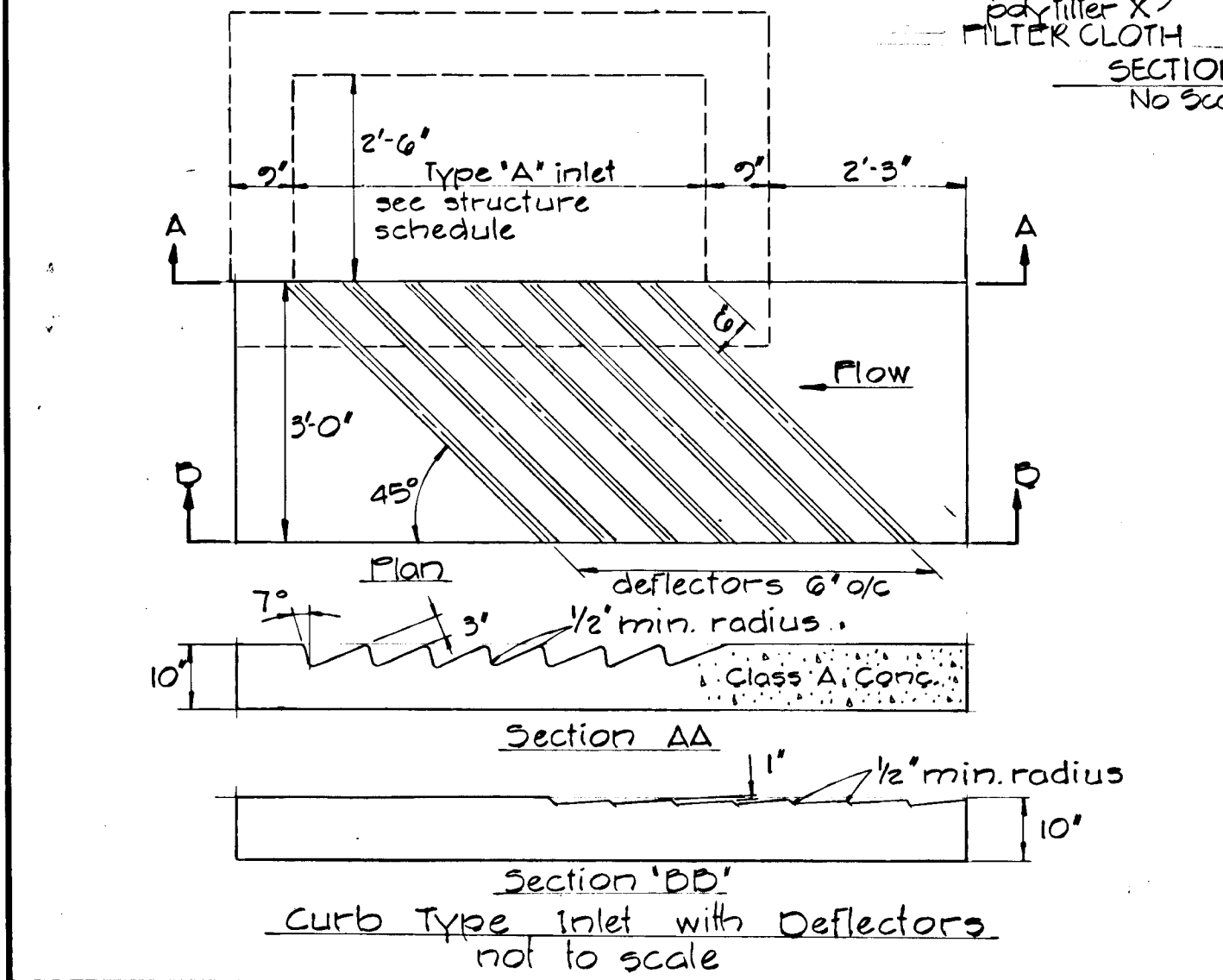
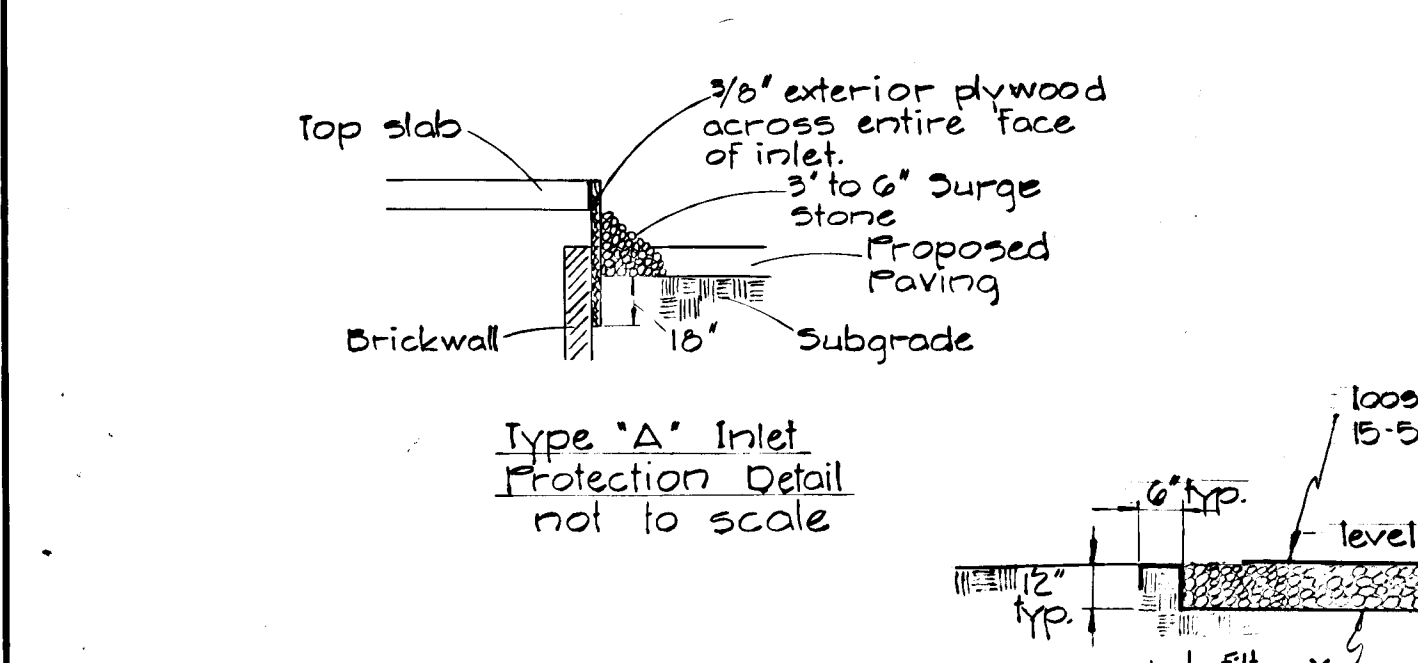
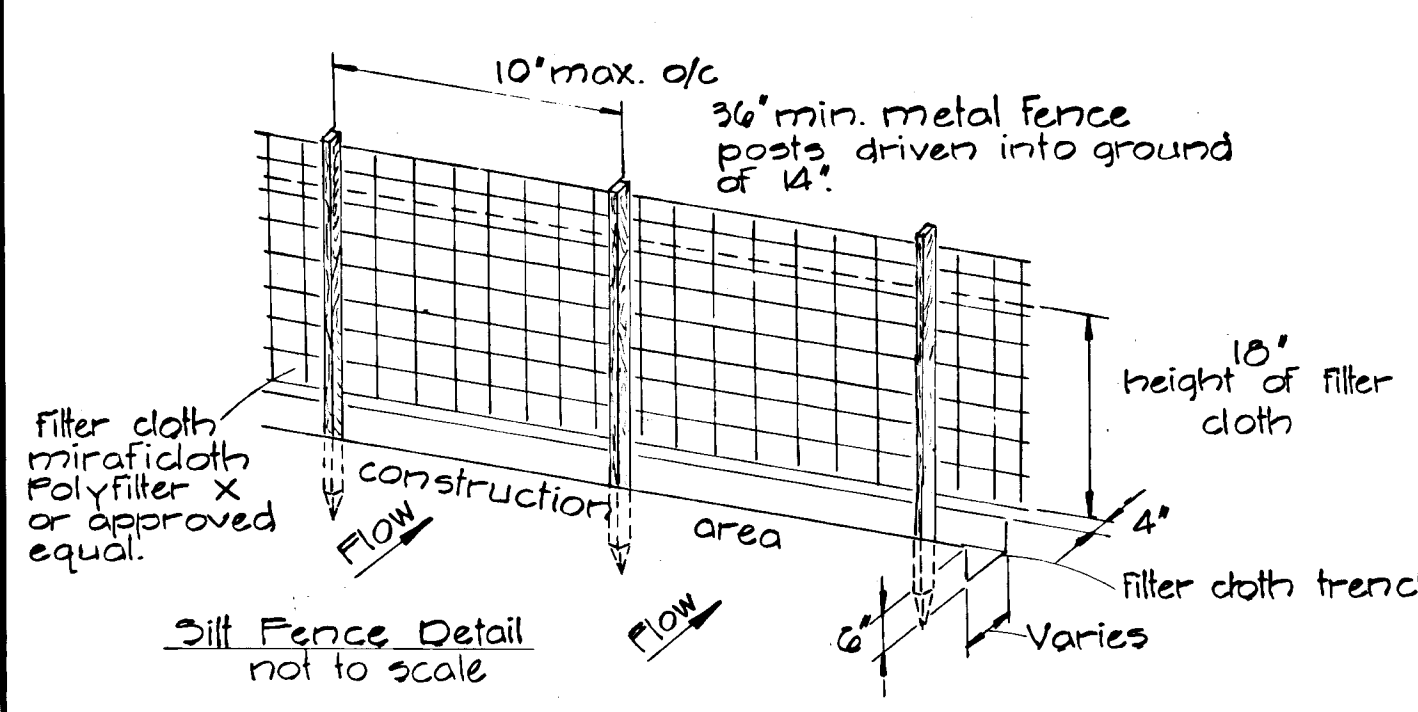
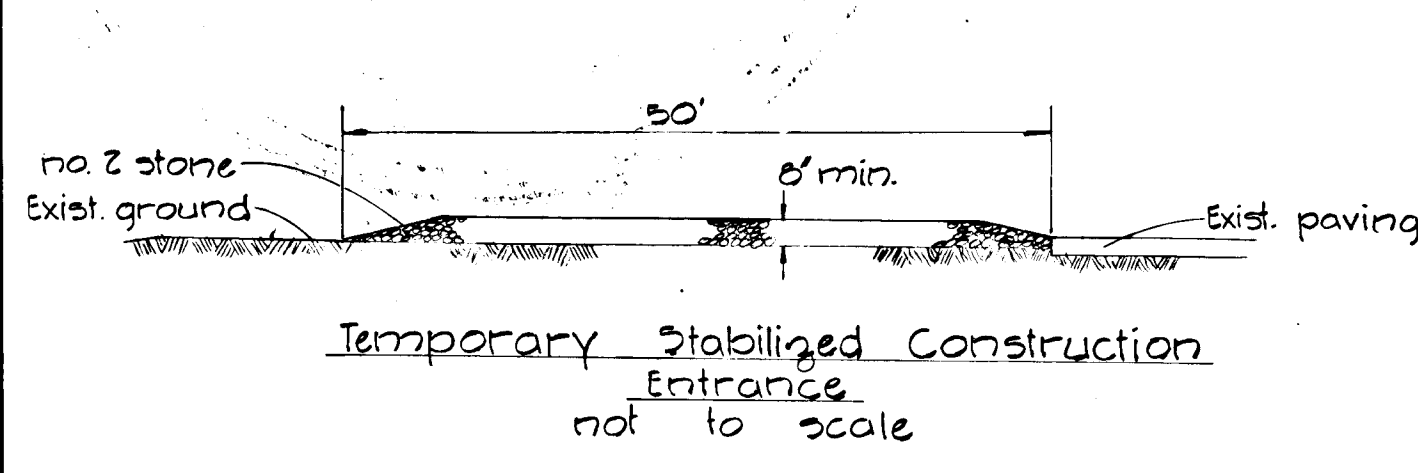
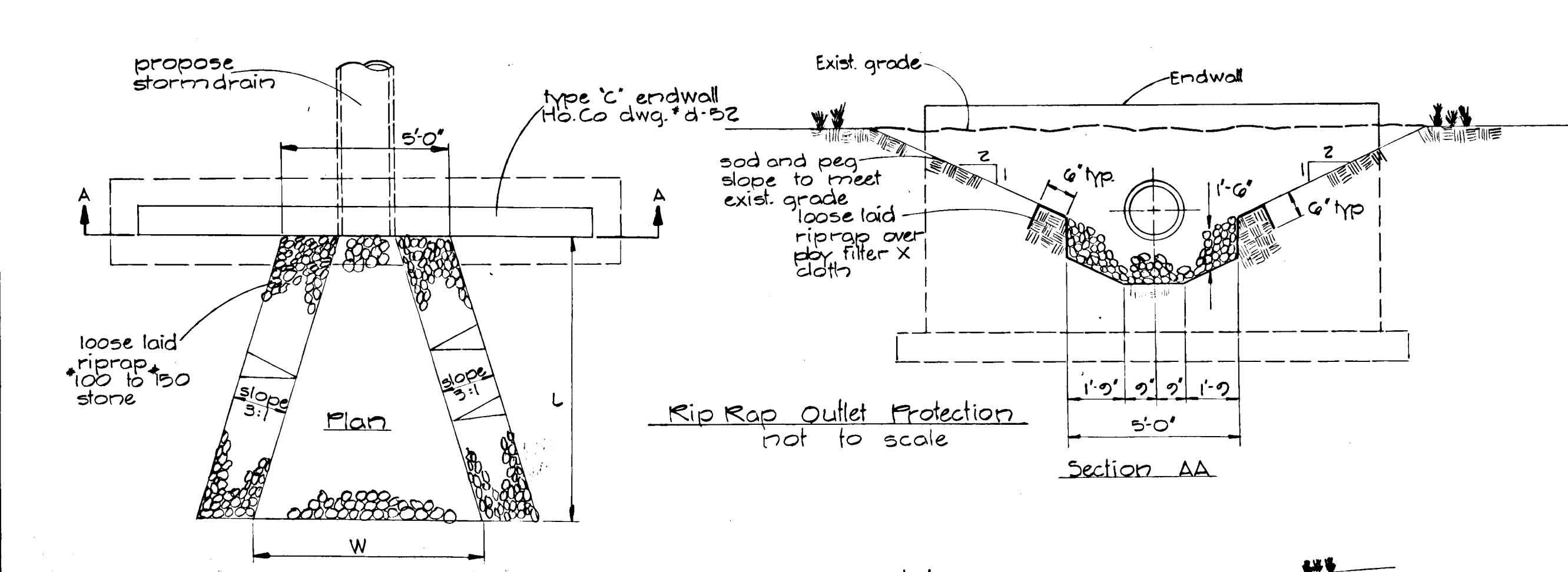


BON SECOURS HOSPITAL - PARCELS A,B & C
HEALTH PARK DRIVE
STA 3+25.29 TO STA 10+70.20
TOWN & COUNTRY BLVD
TOWN & COUNTRY APTS. TO HEALTH PARK DRIVE
2nd Election District Howard County Maryland
Tax Map 1-7 Parcel No. 80
Scale: As Shown Date: 5 APR. 79

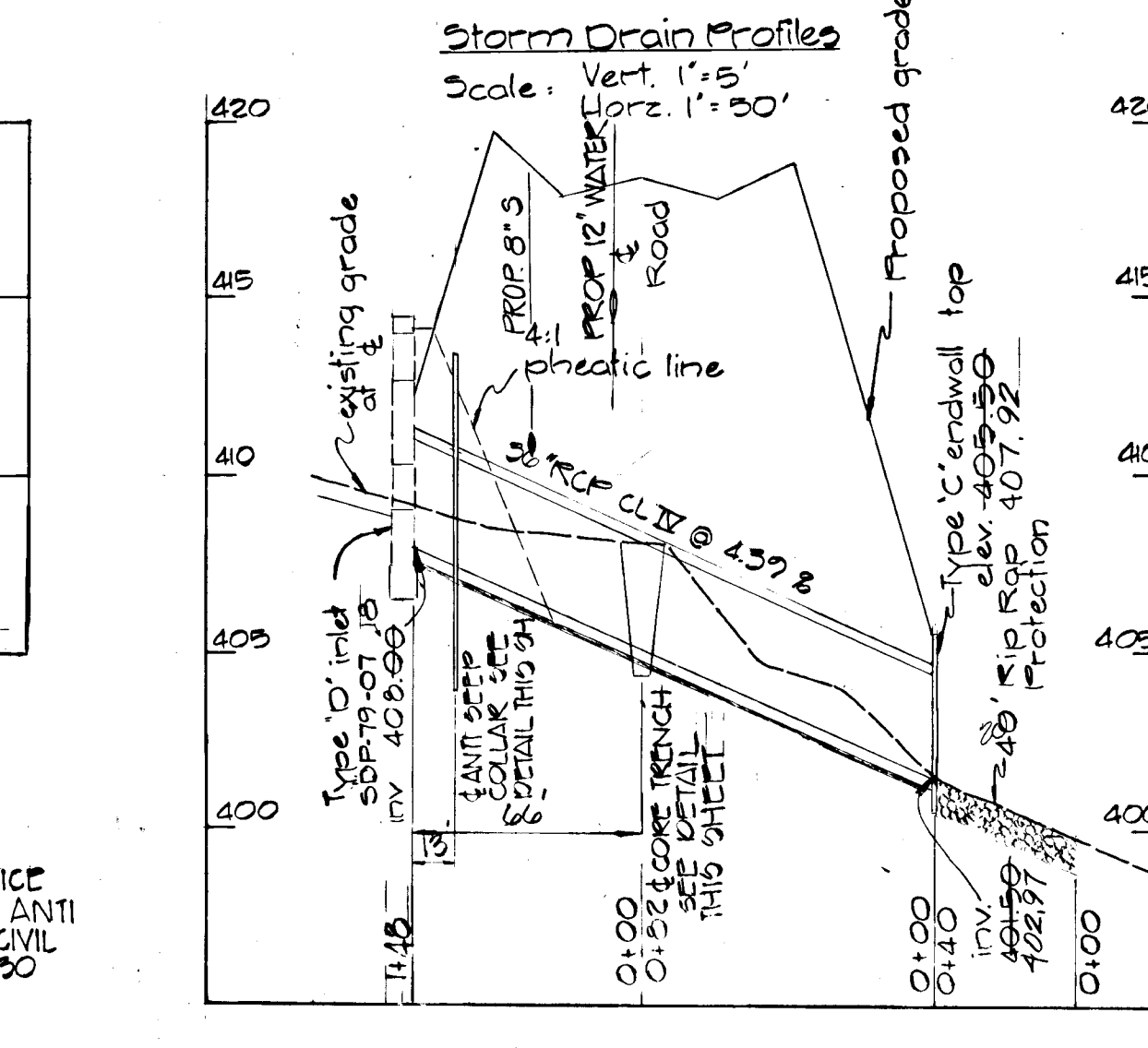
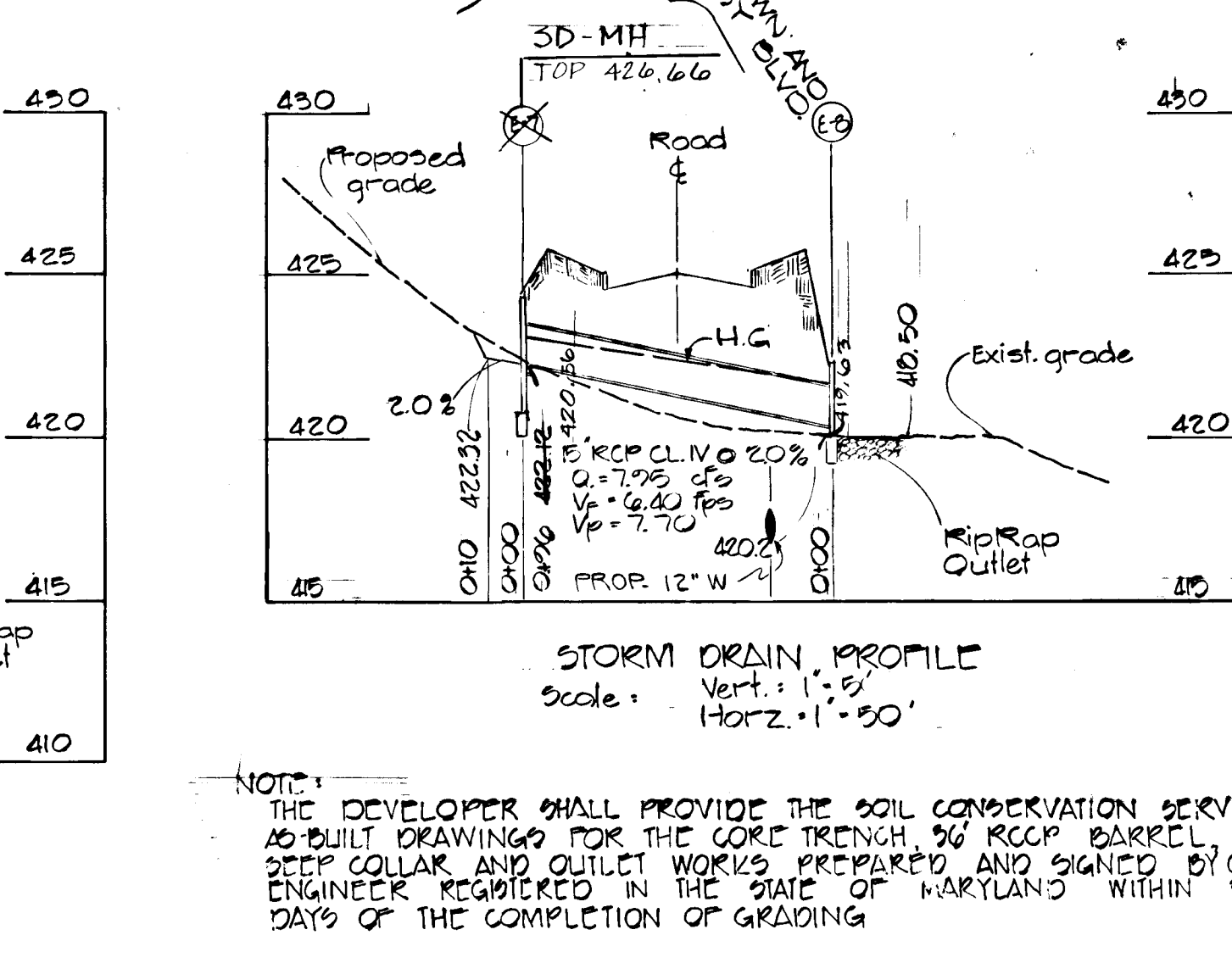
REVISIONS

No.	Description
1	AS BUILT

Designed By: MAT
Drawn By: MAT
Checked By: R.J.T.



Structure	d(in)	Q	V(ft/s)	W(ft)	L(ft)	Rip Rap
E-6	15"	4.55	0.57	20	20	100' x 150'
E-8	15"	7.70	2.70	20	20	
E-7	36"	40.80	5.84	19	40	
36" x 10' x 30' Outlet Post.	-	2.00	3.30	7	10	15' x 50'



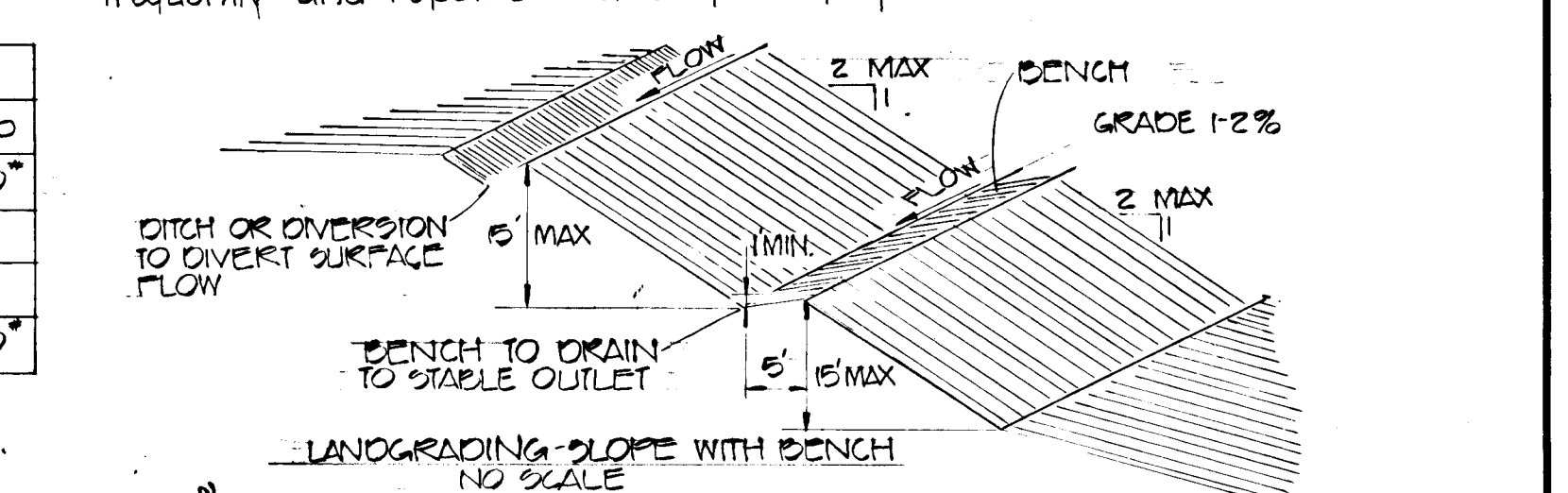
NOTE: THE DEVELOPER SHALL PROVIDE THE SOIL CONSERVATION SERVICE WITH BUILT DRAWINGS FOR THE CORE TRENCH, 3/8" RCP BARREL, ANTI SEEP COLLAR AND OUTLET WORKS PREPARED AND SIGNED BY CIVIL ENGINEER REGISTERED IN THE STATE OF MARYLAND WITHIN 30 DAYS OF THE COMPLETION OF GRADING.

Construction Sequence

1. Construct silt fence, place storm drain system, grade road to subgrade, and construct temporary stabilized construction entrance at Town & Country Blvd entrance.
2. Clear trees within area necessary to allow proposed grading.
3. Install all silt fences.
4. Construct core trench between sta. 8100 and sta. 10120.
5. Place storm drain system at sta. 9150 and provide adequate barricade, stabilized with sandbag on up stream end of pipe.
6. Grade road to subgrade and construct storm drain at sta. 7150. Inlet shall be blocked as indicated stabilize embankment with temporary seeding (see sediment control notes.)
7. Place concrete curb and gutter. Place bituminous concrete base course, removing inlet protection and filling in interceptor swales only in areas being paved. Remove temporary construction entrance.
8. Place bituminous concrete binder and surface courses.
9. Place permanent stabilization in accordance with the sediment control notes and remove all temporary sediment control devices. Clean up all disturbed areas and stabilize.

SEDIMENT CONTROL NOTES

1. Specifications for the sediment control details shown hereon are included in the U.S.D.A. Soil Conservation Service Standards and Specifications for soil erosion and sediment control in developing areas.
2. The developer shall notify the Howard County Office of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-2435 or 992-2436).
3. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits (992-2435 or 992-2436).
4. All graded areas shall be stabilized in accordance with the following requirements:
 1. Site preparation:
 - A. Harrow or disc the areas to be seeded with following materials at specified rate to a depth of 2":
 1. Pulverized limestone @ 1 1/2 ton/acre
 2. Commercial fertilizer 10-10-10 @ 3/4 ton/acre
 3. Super phosphate @ 600 lbs/acre.
 2. Seeding:
 1. Sow the following seed mixture at the specified rate with a mechanical seeder:
 1. Temporary (annual or Perennial) Ryegrass (40 lb/acre)
 2. Permanent (Slopes 3:1 or flatter) Kentucky Bluegrass Certified
 3. Permanent (Slopes steeper than 3:1 max 2:1) Kentucky 51 fescue (40 lb/acre) and crown vetch (40 lb/acre)
 2. Seeded area shall be raked with a York Rake (min of two passes), covered and compacted with a cultipacker or other method.
 3. Mulching:
 1. Seeded areas shall be uniformly mulched immediately after seeding with universal small grade straw at the rate of 1 lb to 2 ton/acre
 2. Mulch shall be applied with liquid asphalt at 0.1 gal/sy. or emulsified asphalt at 0.04 gal/sy.
 2. Seeding:
 1. Apply 10-10-10 fertilizer at 1000 lbs/acre (25 lbs/1000 s.f.)
 2. Apply ground agricultural limestone at 2000 lbs/acre (50 lbs/1000 s.f.)
 3. Incorporate both lime and fertilizer into soil by disking. Firm up after incorporation.
 4. Lay sod to a tight fit. Roll to insure contact with underlying soil. Necessary for first two weeks (in summer) to insure establishment.
5. Contractor shall place plywood braced with sandbags at the inlet end of the unfinished drain pipes at the end of each work day.
6. Back fill for the core trench shall be the most impervious material available and shall be compacted to assure maximum density and minimum permeability.
7. Stone for the stabilized construction entrance shall be MSHA size no 2 crushed stone. When necessary, wheels shall be cleaned prior to entrance onto public right of way.
8. Interceptor swales shall be excavated or shaped to line grade and cross section as needed and shall be prepared as part of cut and fill operations. The swale shall have a minimum grade of 1% and the bottom shall be level. An outlet will be provided into a sediment trapping device and erosion will be kept to a minimum. The on-site location may need to be adjusted to meet field conditions.
9. Silt Fence:
 1. Wire ties shall be used to securely fasten the wire fence to the posts and the cloth to the fence at 24" intervals.
 2. All temporary sediment control devices shall be inspected frequently and repairs made promptly.



THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT & MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.

Winfred Bendish 7-5-79
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Robert W. Ziehm 7-5-79
HOWARD S.C.D. DATE

BON SECOURS HOSPITAL-PARCELS A,B & C
HEALTH PARK DR & TOWN & COUNTRY BLVD
Details and Storm Drain Profiles
Howard County Maryland
Second Election District
tax map 17 parcel 80
5 APRIL 1979
AS BUILT 3/21/85

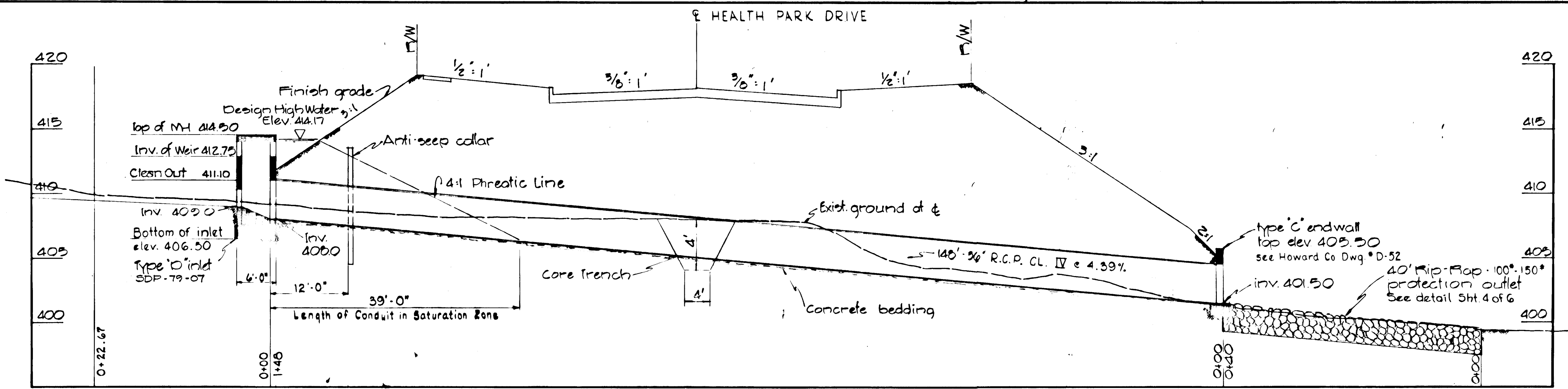
PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

Approved: Department of Public Works
Allen S. Brown 7/11/79
Chief, Bureau of Engineering Date
Approved: Department of Planning & Zoning
Chief, Division of Land Development Date
Chief, Division of Transportation Planning Date

Reviewed for Howard County Soil Conservation District and meets technical requirements.
Winfred Bendish
U.S. Soil Conservation Service Date 7-5-79
This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District
Robert W. Ziehm
District Coordinator Ho. Co. Soil Conservation Dist. Date: 7-5-79

Developer's Certificate
I certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and I also authorize periodic on-site inspection by Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Winfred Bendish 7/15/79
Date

Engineer's Certificate
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
William A. Rosch I 7/15/79
Date
Reg. No. 4575
Sheet Number 2 of 3
des by m.a.t.
drn by w.k.f.
chk by r.j.t.
scale as shown



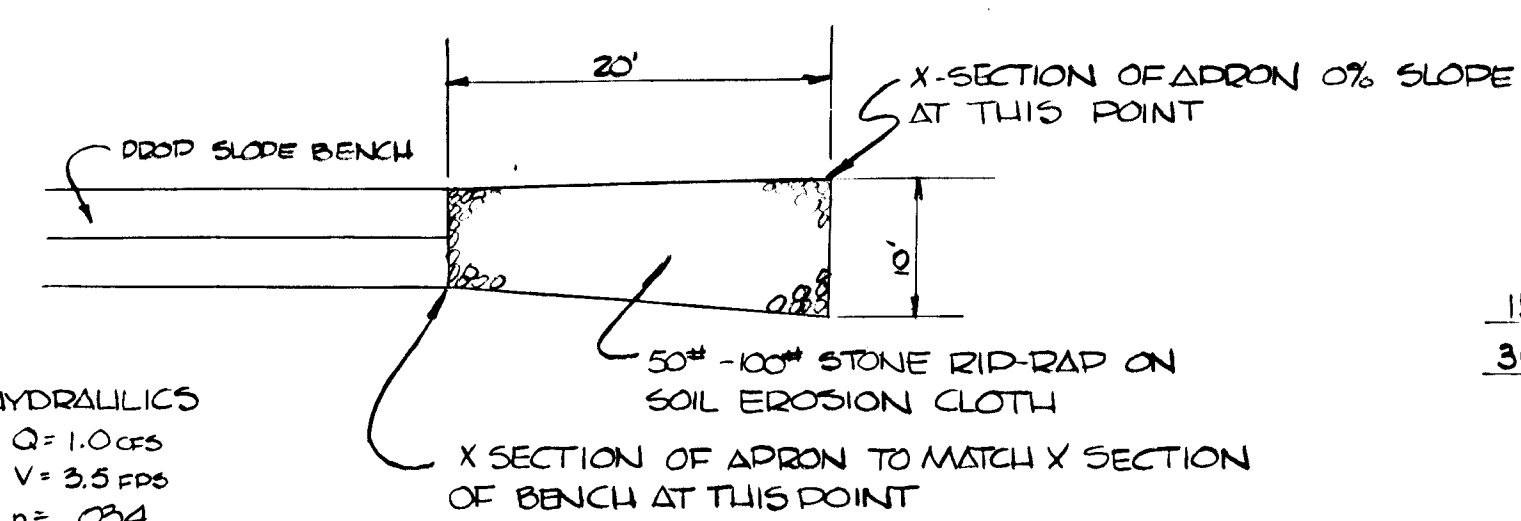
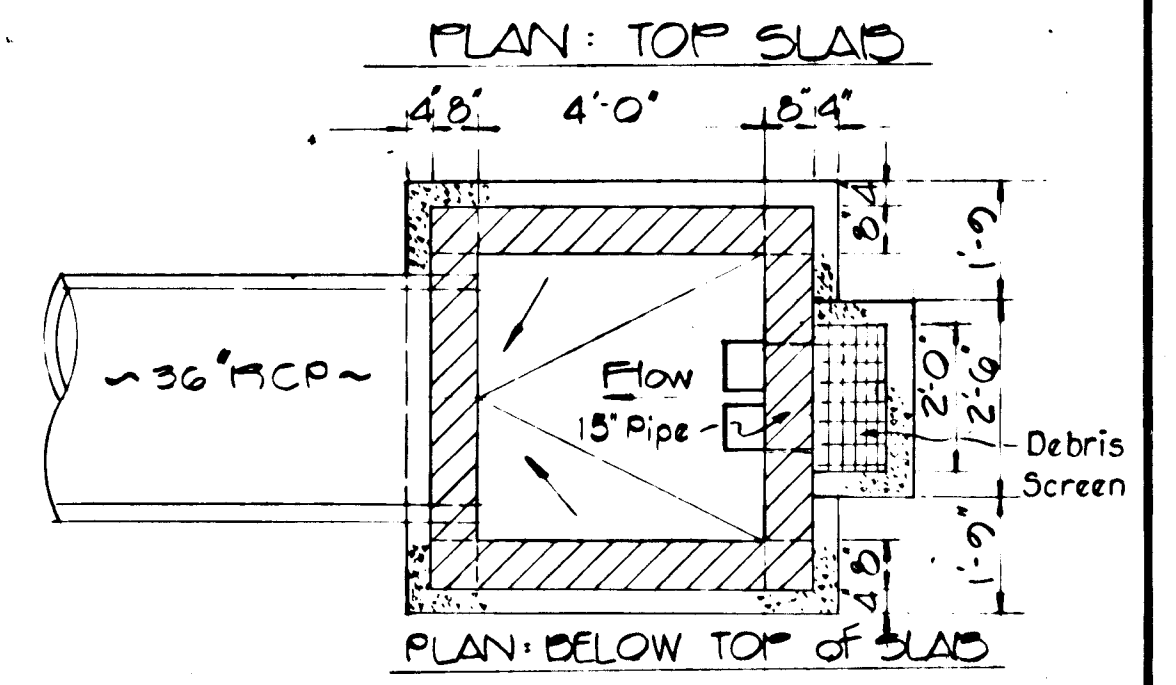
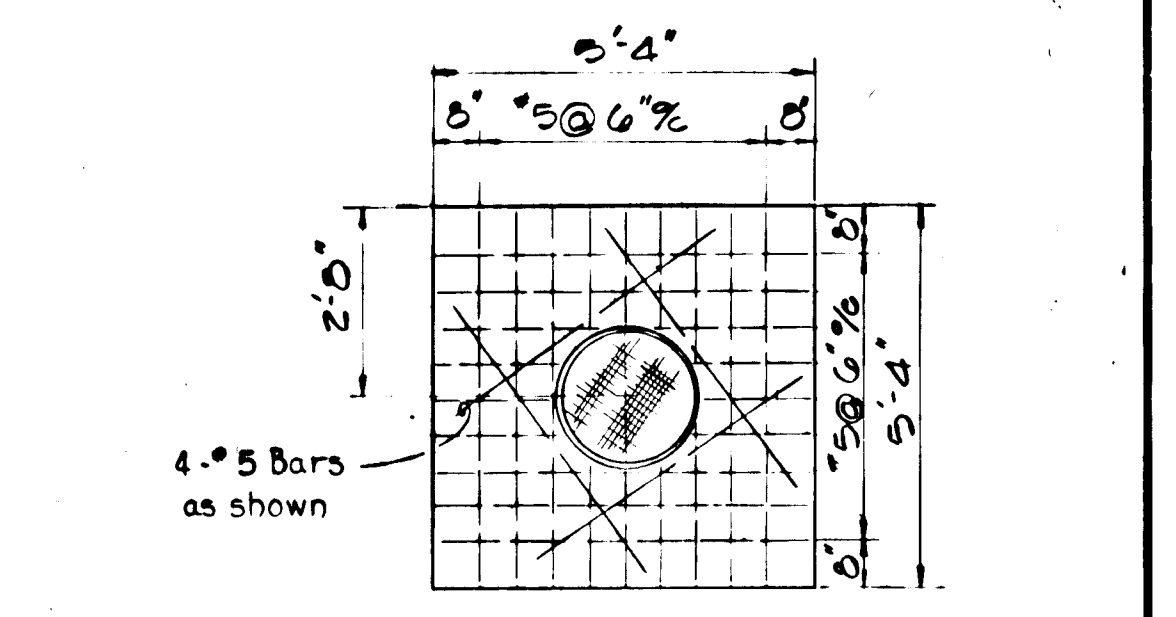
NOTE: The Weir Opening is Located on All four (4) sides of the Modified Type 'D' Inlets. See Details Below. PRIOR TO ANY GRADING, THE MODIFIED INLET SHALL BE INSTALLED AND PLUGGED.

PROFILE ALONG SPILLWAY
SCALE: HORIZ: 1"=10'-0"
VERT: 1"=3'-0"

NOTE: CONVERTING SEDIMENT BASIN INTO PERMANENT STORM WATER RETENTION POND.
 1. CLEAN OUT SEDIMENT & RE-ESTABLISH PROPOSED GRADES.
 2. STABILIZE WITH PERMANENT SEEDING.
 3. REMOVE CONCRETE PLUG IN 15" PIPE IN MODIFIED 'D' INLET & CONSTRUCT CONCRETE PAD WITH TRASH RACK.
 4. REMOVE OBSTRUCTIONS FROM INLET OPENINGS ON SITE STORM DRAINS.

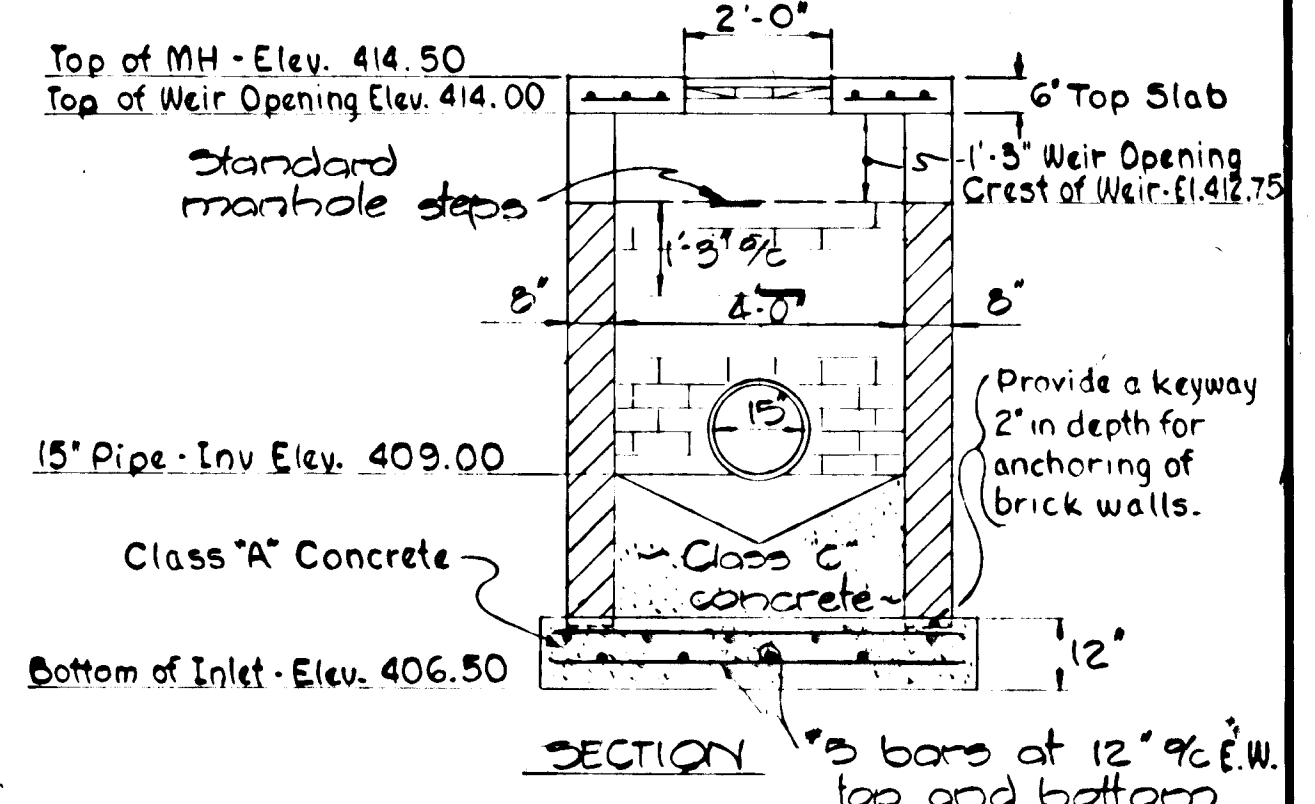
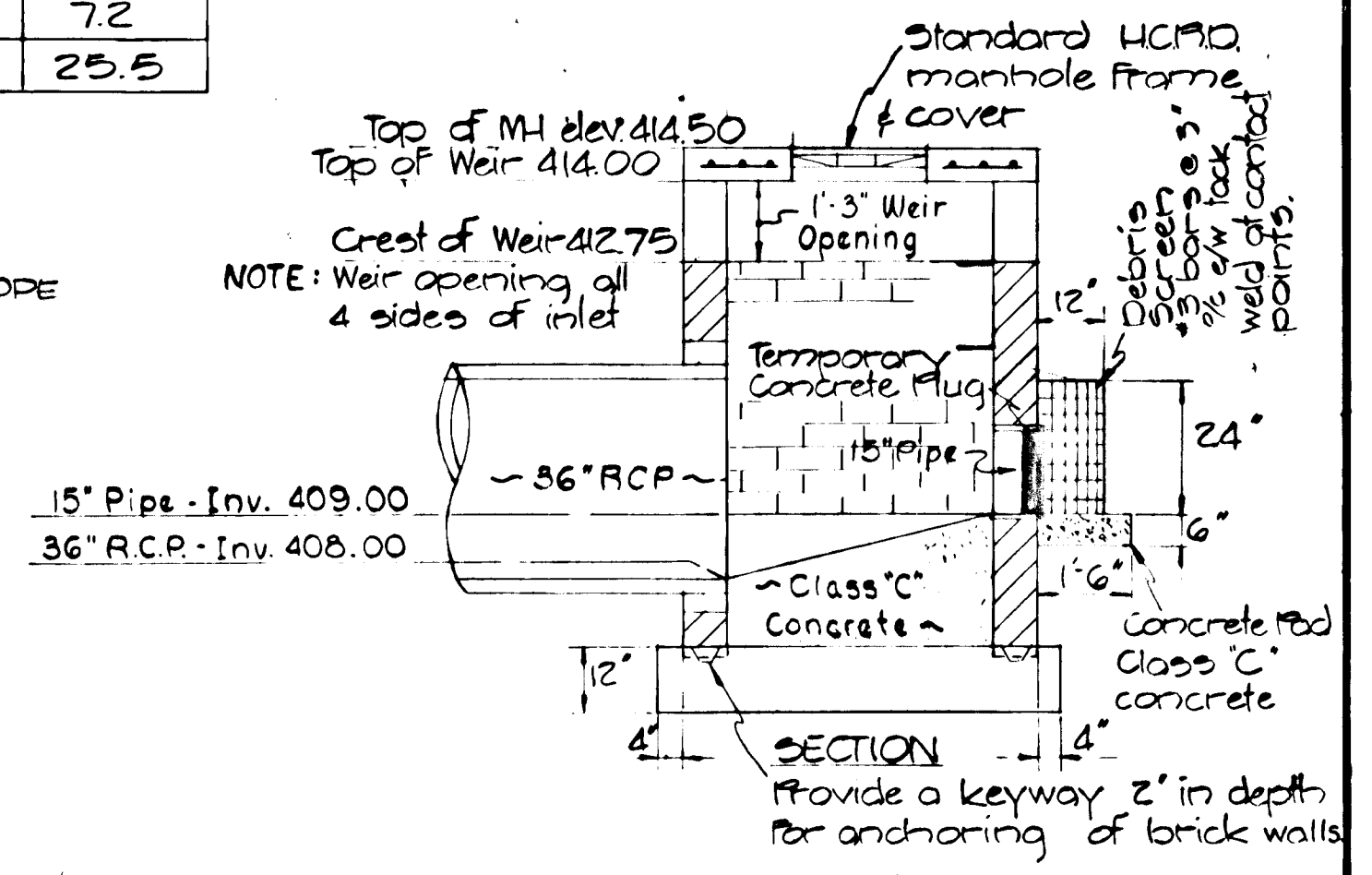
NOTE: AS-BUILT DRAWINGS FOR THE ANTI-SEEP COLLAR CORE TRENCH OUTFALL STRUCTURE AND 36" RCP BASKET HAVE BEEN SUBMITTED UNDER A SEPARATE CONTRACT. AS-BUILT CERTIFICATION FOR THE REMAINING STORM WATER MANAGEMENT ITEMS ARE REQUIRED WITHIN 90 DAYS OF THE COMPLETION OF GRADING AS INDICATED BELOW.

YEAR STORM	RCN UN DEV	RAINFALL DEPTH INCHES	RUNOFF DEPTH INCHES		STORAGE CUBIC FEET	RELEASE RATE CFS	
			UNDEV	DEV.		MAX ALLOW	ACTUAL
2 YEAR	57 67	32	0.91	0.69	17,010	6.2	7.2
10 YEAR	57 67	5.1	116	1.00	52,866	25.0	25.5



HYDRAULICS
 Q = 1.0 cfs
 V = 2.5 fpm
 n = .034
 R = .12
 S = .15/ft

SLOPE BENCH OUTLET PROTECTION
DETAIL
NO SCALE



MODIFIED TYPE 'D' INLET
not to scale
NOT INCLUDED IN CONTRACT
AS BUILT 3/21/85

NOTE: The Developer shall provide the Soil Conservation Service as built drawings prepared and signed by a civil engineer registered in the State of Maryland within 90 days following completion of the storm water retention structure.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT & MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.
 Winstead Benditt 7-5-79 DATE
 U.S. SOIL CONSERVATION SERVICE
 THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert W. Ziehm 7-5-79 DATE
 HOWARD SOIL CONSERVATION DISTRICT

OWNER AND DEVELOPER: BON SECOURS HOSPITAL, INC. 2025 N. Fayette Street Baltimore, Maryland 21223
 ARCHITECT: COCHRAN, STEPHENSON & DONKEROVET 925 N. Charles Street Baltimore, Maryland 21201

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

DEVELOPER: THIS IS TO CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND TO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: GARY A. JUNGHER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR DATE
 CHIEF, BUREAU OF ENGIN. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 PLANNING DIRECTOR DATE
 CHIEF, DIVISION OF LAND DEV. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER DATE

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS 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.
 Signature: Winstead Benditt 7-5-79 DATE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: Robert W. Ziehm 7-5-79 DATE
 HOWARD SOIL CONSERVATION DISTRICT DATE

PROFESSIONAL ENGINEER: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: W. G. Rarich 6/20/79 DATE
 WILLIAM G. RARICH, II DATE

BON SECOURS HOSPITAL - PARCELS A, B & C HEALTH PARK DR & TOWN & COUNTRY BLVD. DETAILS - 36" RCP STORM DRAIN CROSSING
 2nd. Election District, Howard County, Maryland
 Tax Map 17 Parcel No. 80
 Scale: As Shown Date: 5 APR 79

Sheet 3 of 3
 REVISIONS:
 Designed By: P.K.
 Drawn By: W.K.F.
 Checked By: