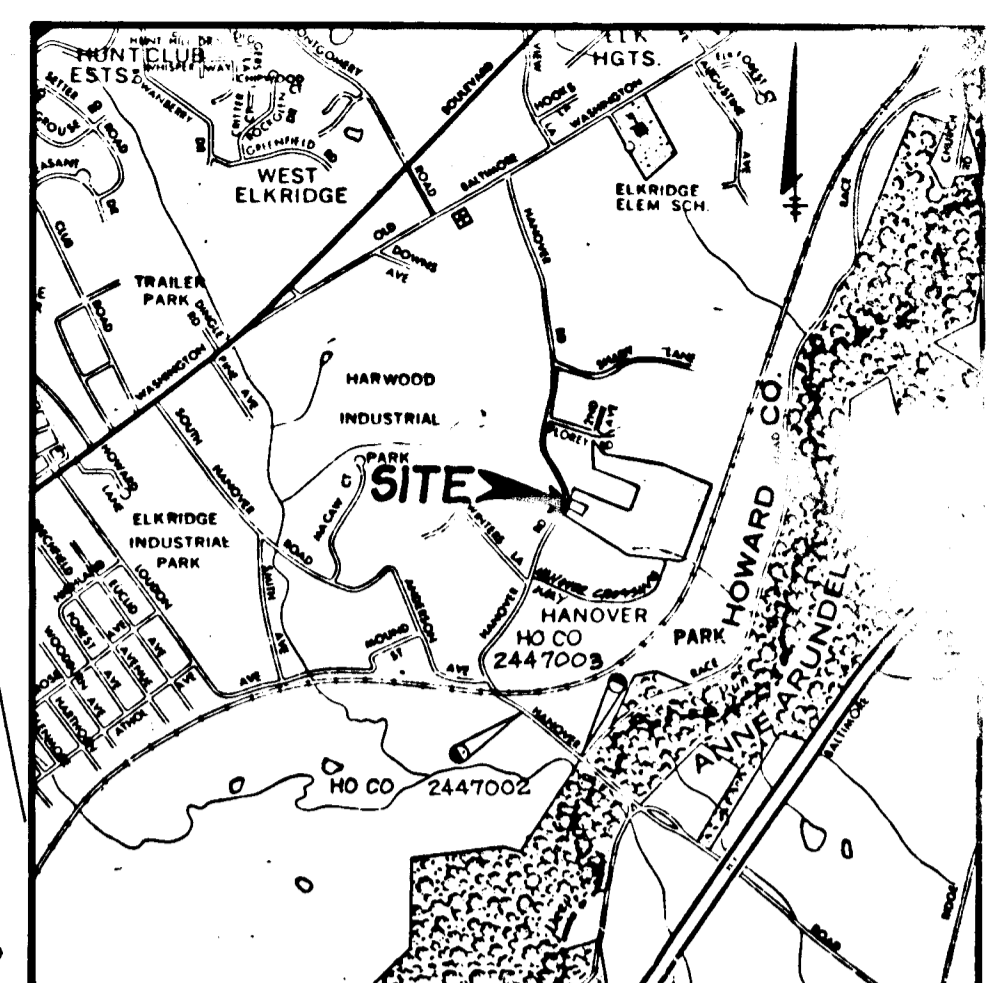


SHEET INDEX	
NO	DESCRIPTION
1	PLAN OF PATUXENT QUARTER ROAD MILL RIVER COURT AND HANOVER CROSSING WAY
2	ROAD PROFILES
3	PROFILE HANOVER CROSSING WAY AND STORM DRAIN PROFILES
4	DRAINAGE AREA MAP
5	GRADING AND SEDIMENT CONTROL PLAN
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7	STORMWATER MANAGEMENT SPECIFICATIONS & DETAILS
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CENTER LINE CURVE DATA						
STATION	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
0+00 - 2+42.05	595.00'	195.05'	98.48'	171.12'	S76°18'15"E	28°00'00"
2+42.05 - 4+00.00	430.00'	100.79'	50.63'	100.56'	S85°25'21"E	13°25'49"
4+00.00 - 7+46.13	595.00'	147.74'	74.74'	146.88'	S87°35'21"E	21°25'49"
7+46.13 - 10+00.00	275.00'	48.96'	24.48'	48.96'	N31°04'17"E	101°14'56"
10+00.00 - 12+00.00	725.00'	169.89'	84.94'	169.89'	N01°28'12"W	15°25'34"

BENCH MARKS
 HO CO 2447002 ELEVATION 85.82
 N49494.546 E8720.9.658
 CONCRETE MONUMENT NE CORNER RR TRACKS
 AND HANOVER ROAD 0.3' BELOW SURFACE
 HO CO 2447003 ELEVATION 42.26
 N494376.047 E879030.173
 CONCRETE MONUMENT 0.2' BELOW SURFACE NW
 SIDE HANOVER ROAD AND RACE ROAD

NOTE: THIS PROJECT IS SUBJECT TO NON-TIDAL WETLANDS PERMIT NO. 11-01206-3 AND WATER QUALITY CERTIFICATION NO. 93-WQ-0271.
 NOTES: 1. NOISE BARRIERS WILL BE PRIVATELY OWNED AND MAINTAINED.
 2. THE BEARS OF THE BUILDINGS ON LOTS 25 THRU 27 SHALL NOT BE CLOSER THAN 50' TO THE NOISE BARRIERS.

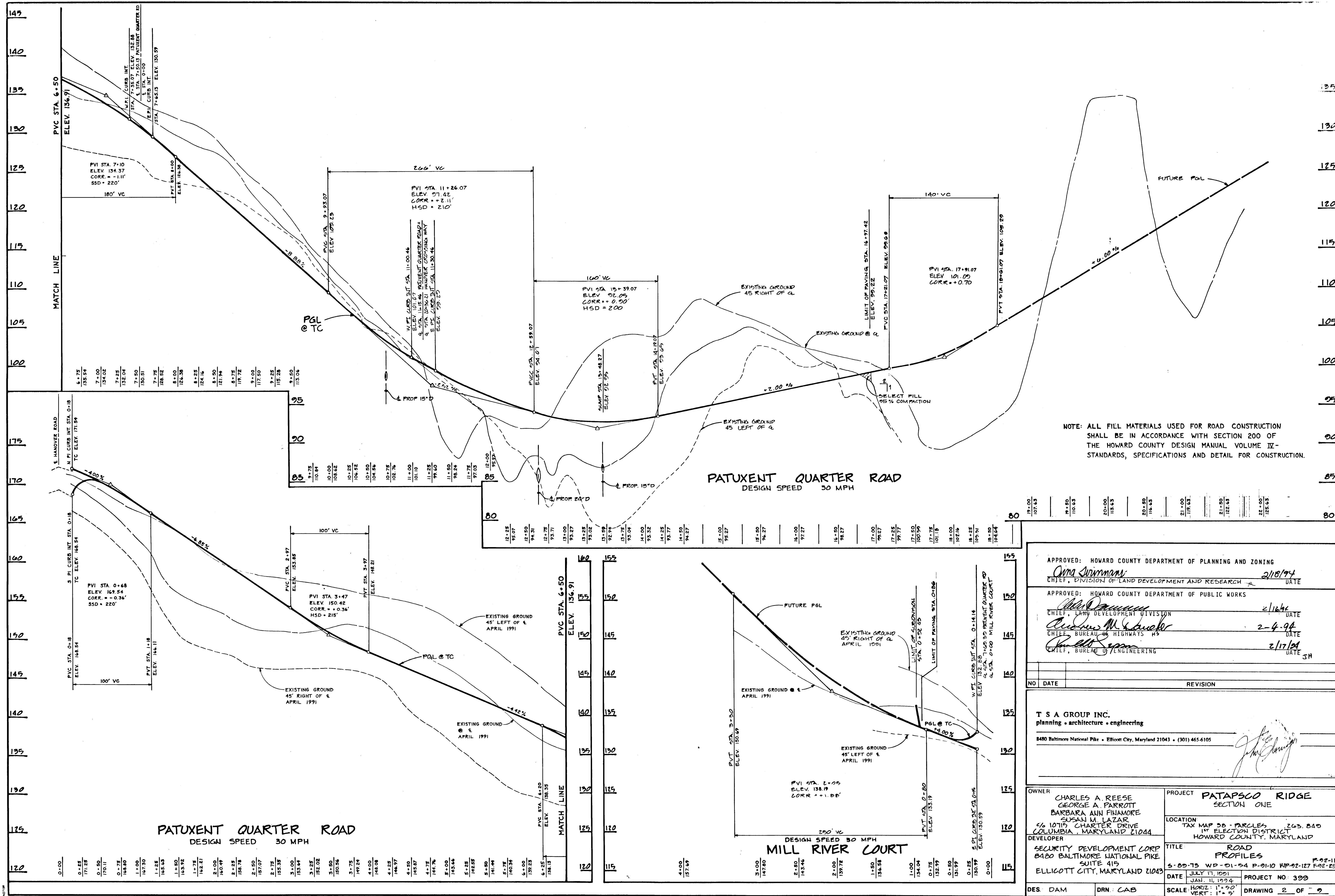


VICINITY MAP
SCALE 1"=2000'

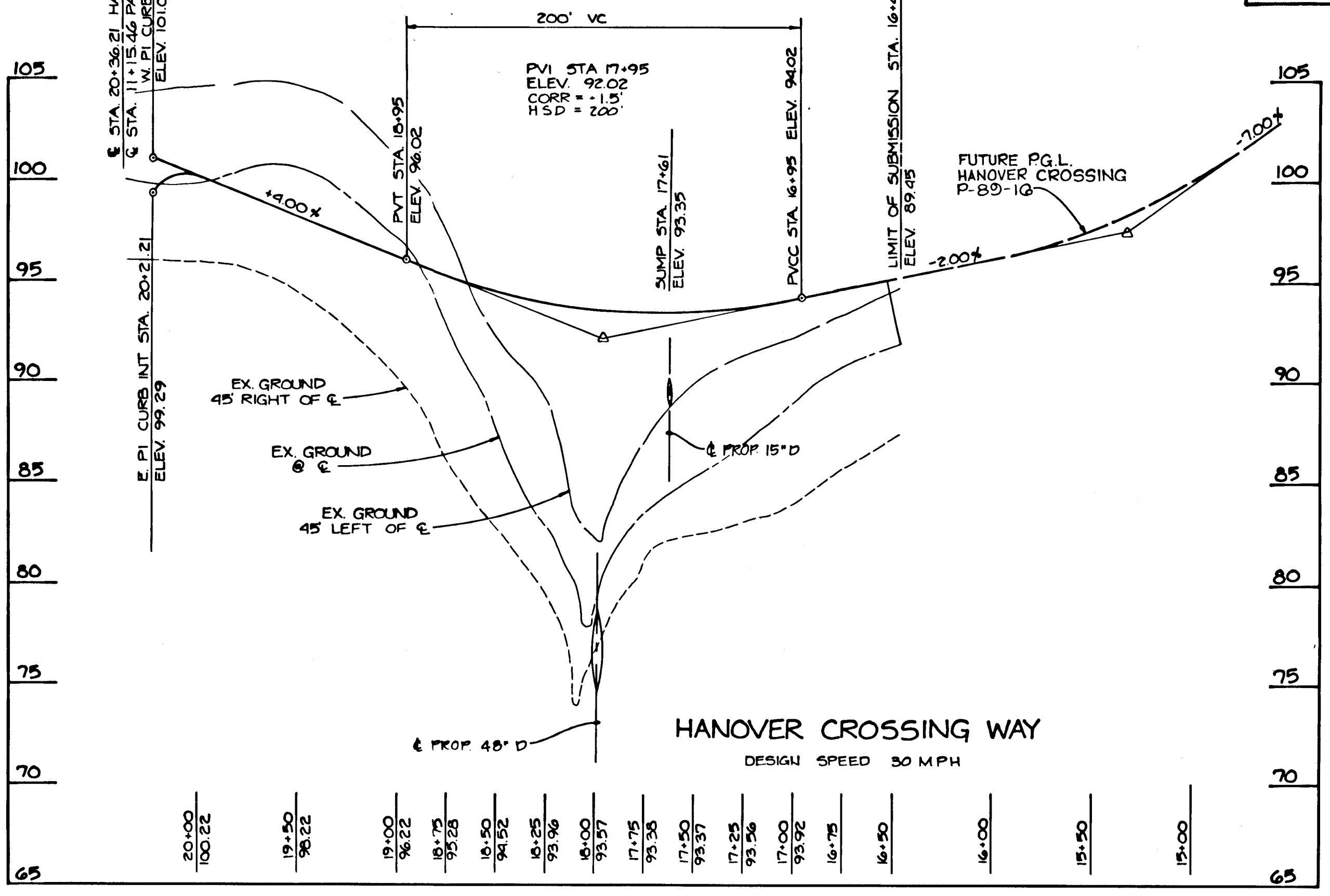
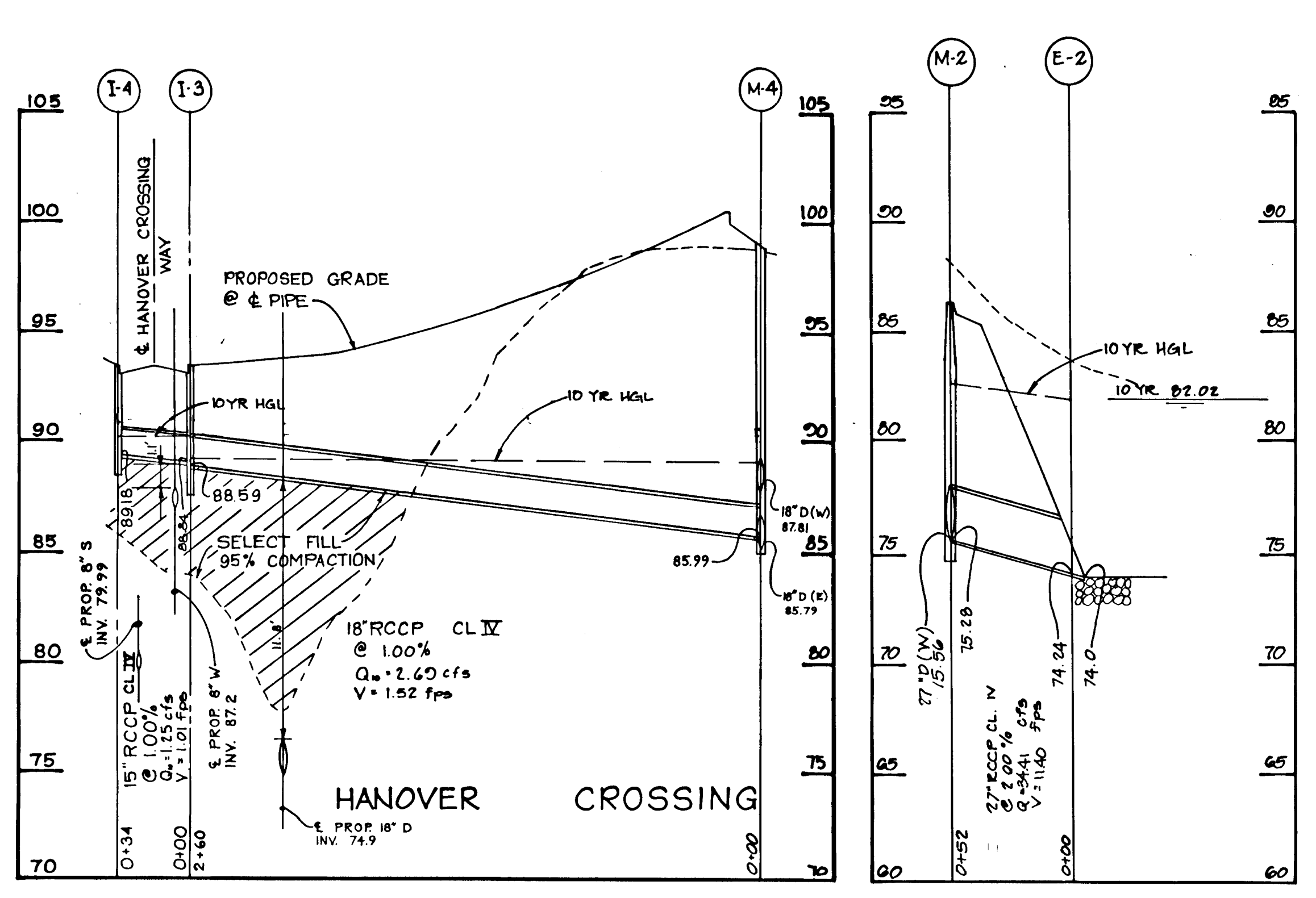
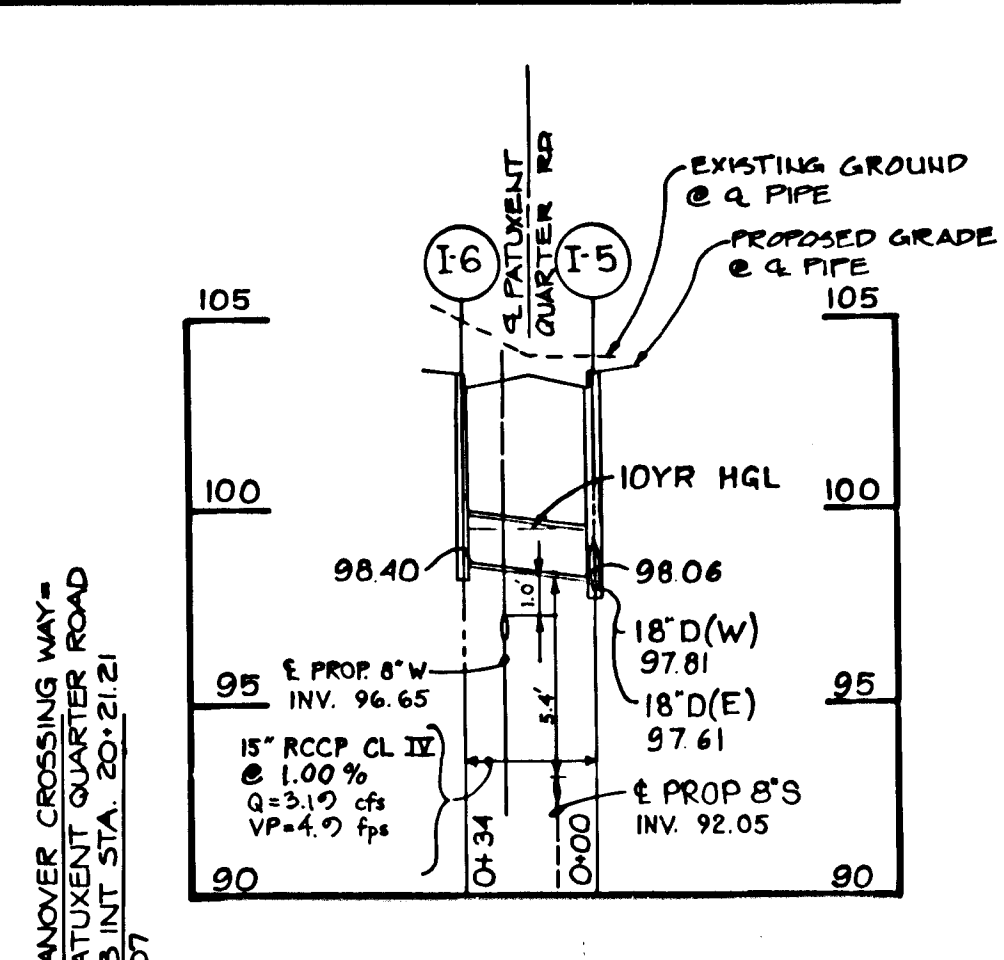
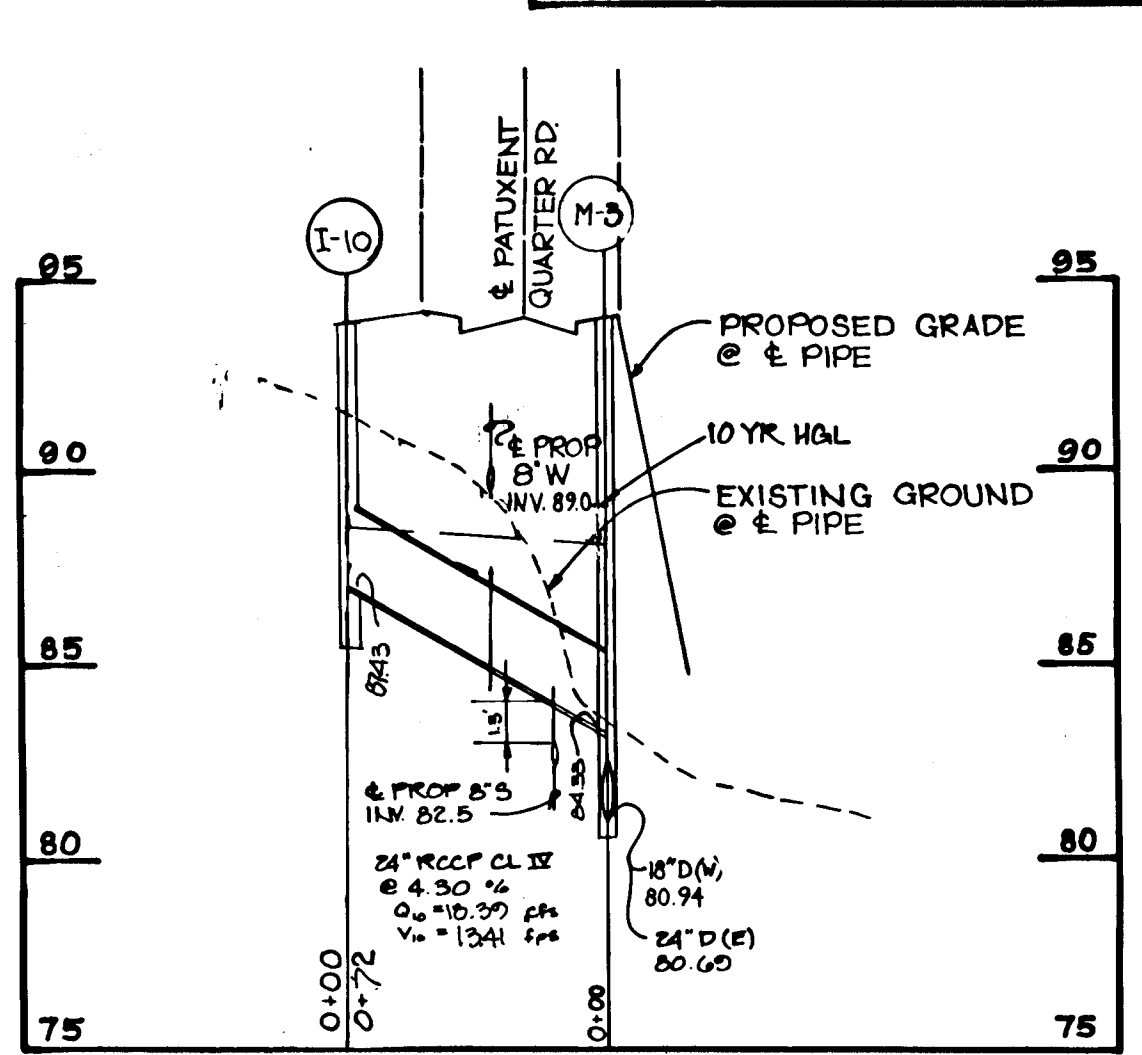
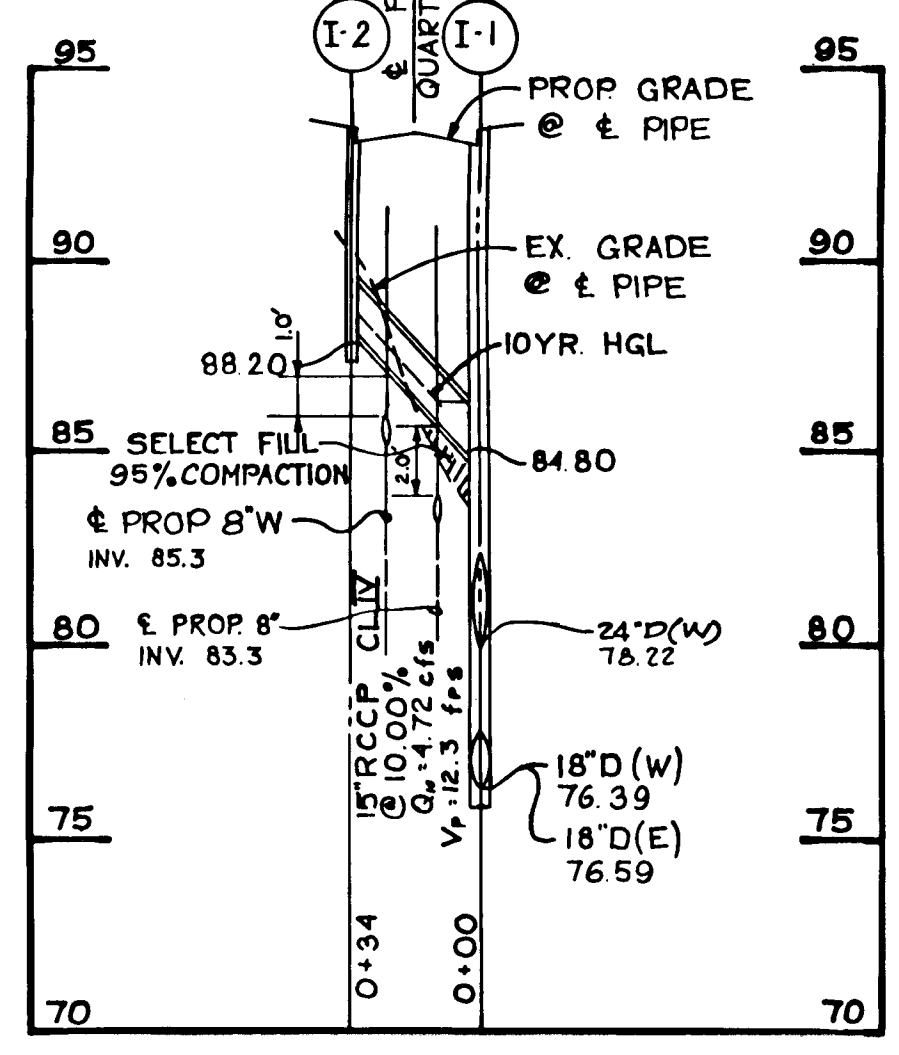
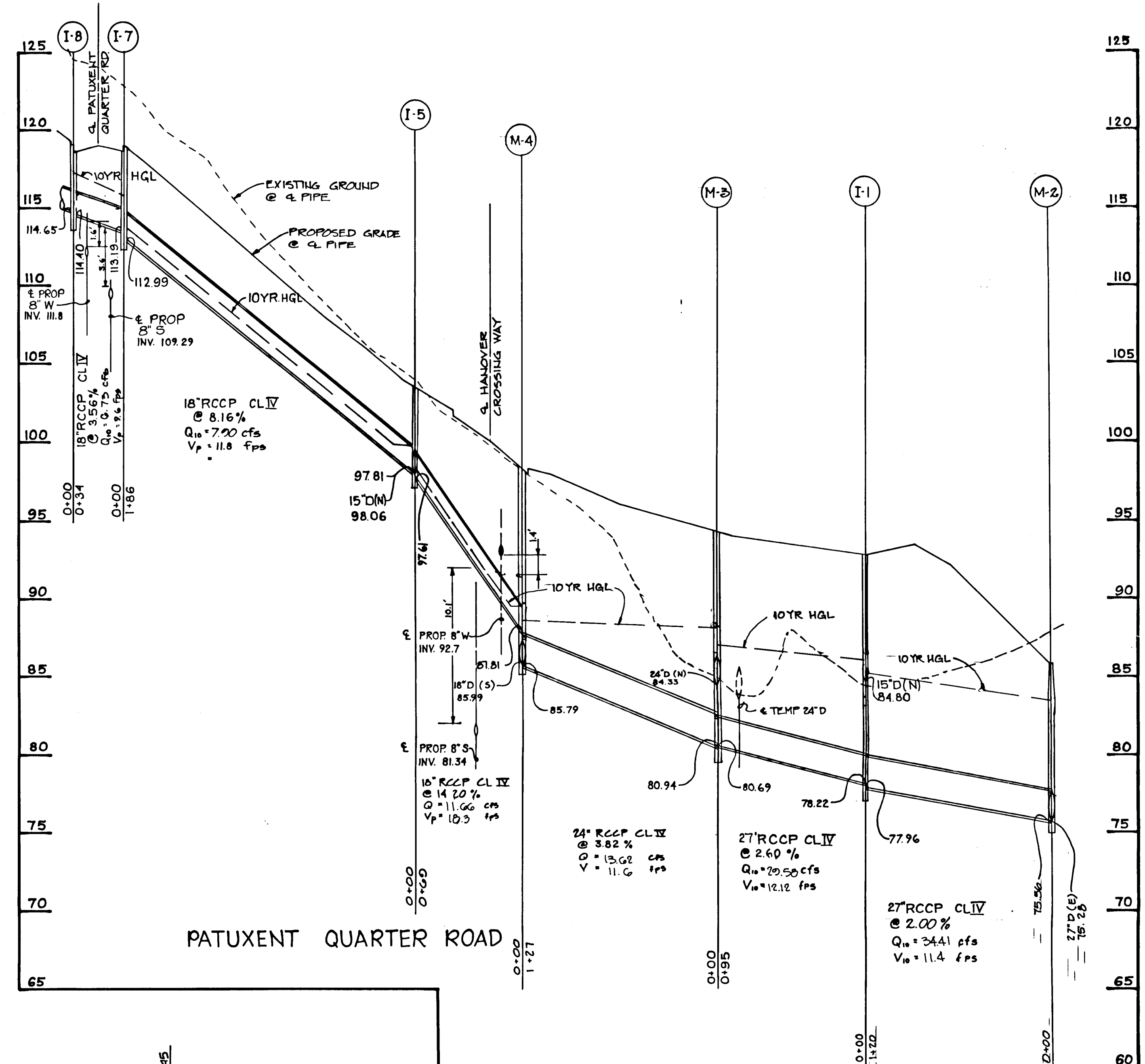
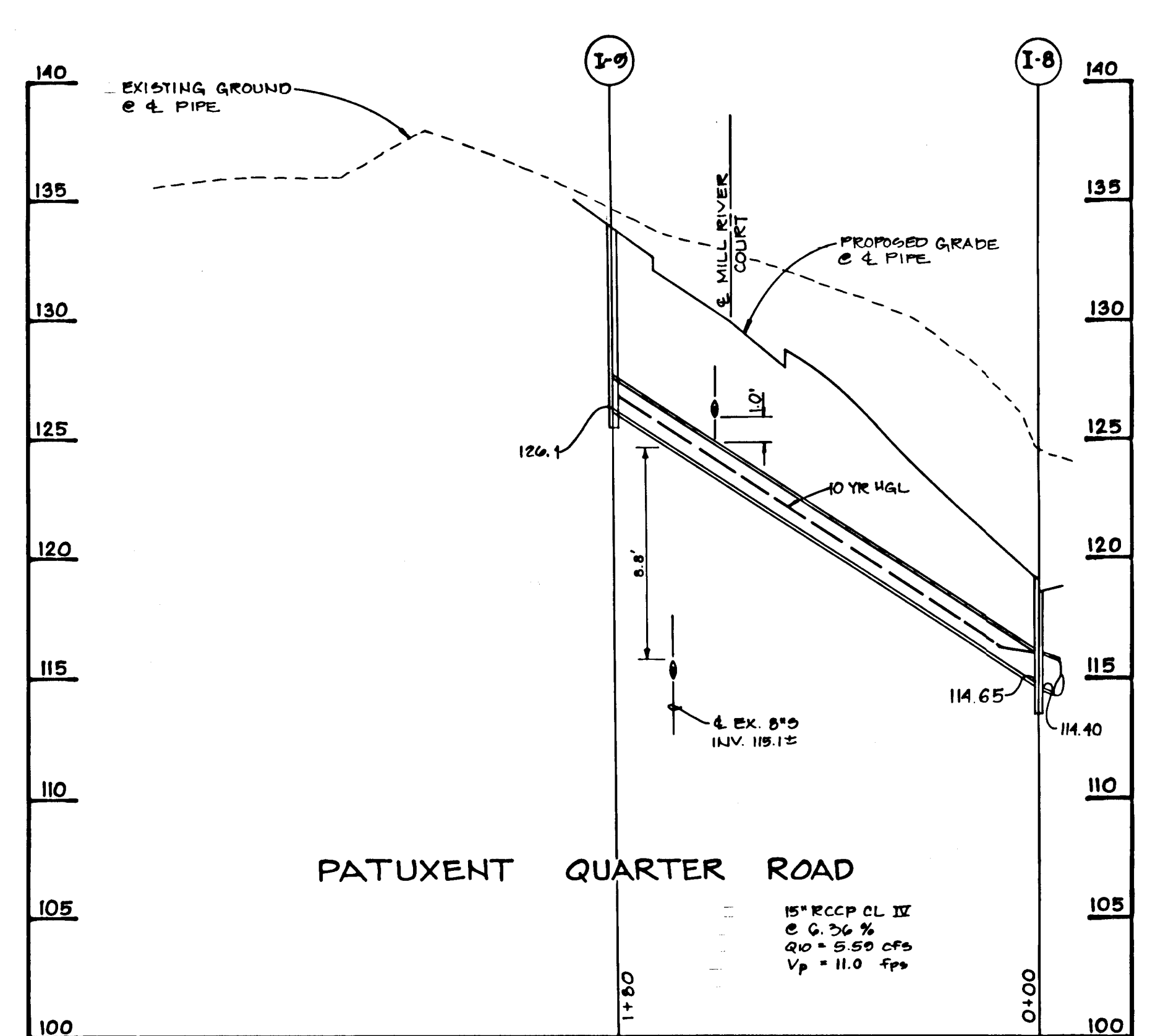
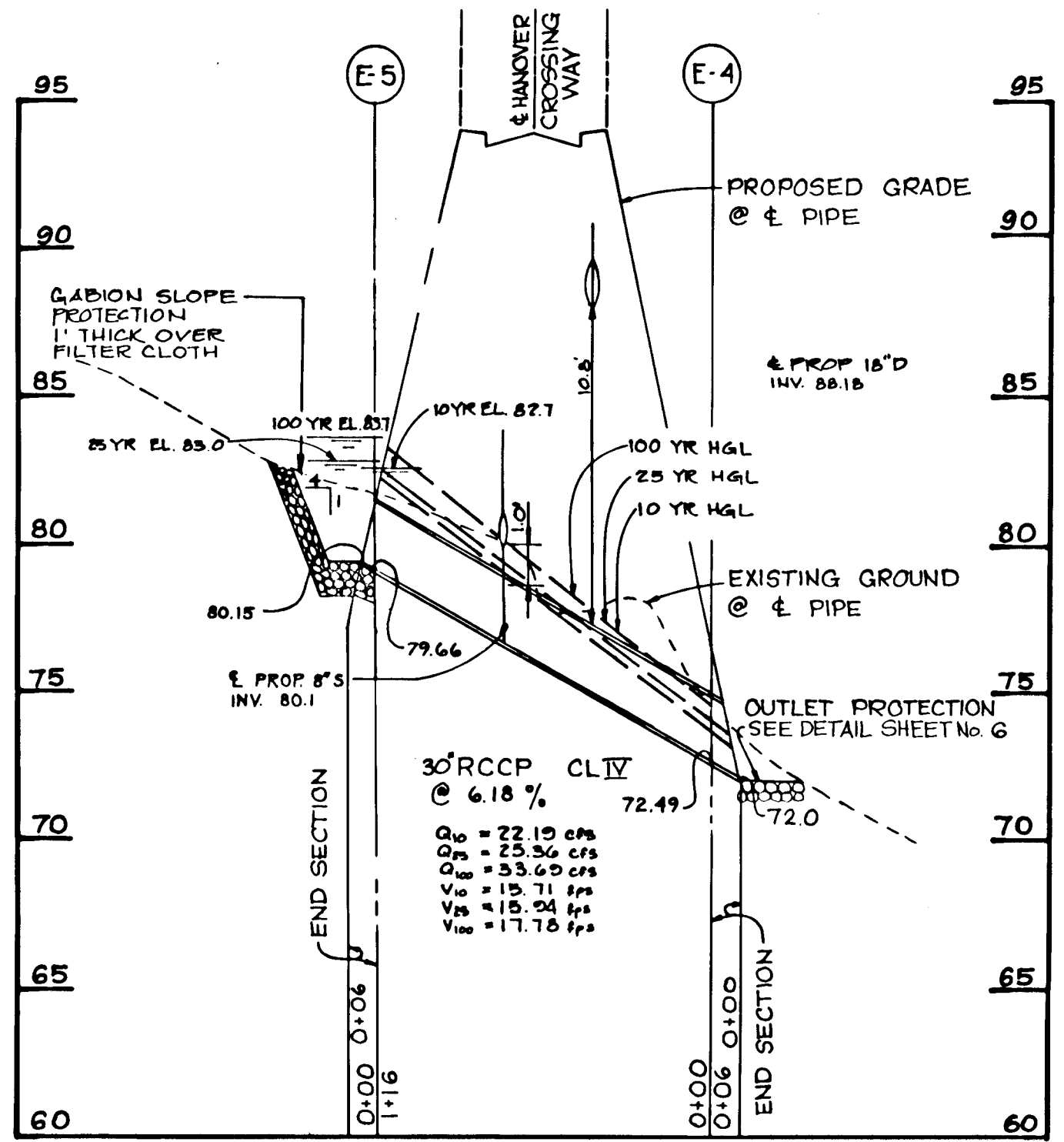
GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MHA standards and specifications, if applicable.
- The contractor shall notify the Department of Public Works/CONSTRUCTION INSPECTION DIVISION at (410) 315-1800 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Project Background (unless included in Title Block):
 Location: Tax Map 38, Parcels 263 & 649
 Zoning: R-12
 Election District: 1st
 Total Tract Area: 21.92 Ac +/-
 Section Area: 21.92 Ac +/-
 Number of Proposed Buildable Lots: 26
 Howard County DP2 Reference No.: H-89-73, P-91-10, P-92-11, P-91-84
 Granted 12/11/90, P-92-127, P-92-128, P-92-129, P-92-130, P-92-131, P-92-132, P-92-133, P-92-134, P-92-135, P-92-136, P-92-137, P-92-138, P-92-139, P-92-140, P-92-141, P-92-142, P-92-143, P-92-144, P-92-145, P-92-146, P-92-147, P-92-148, P-92-149, P-92-150, P-92-151, P-92-152, P-92-153, P-92-154, P-92-155, P-92-156, P-92-157, P-92-158, P-92-159, P-92-160, P-92-161, P-92-162, P-92-163, P-92-164, P-92-165, P-92-166, P-92-167, P-92-168, P-92-169, P-92-170, P-92-171, P-92-172, P-92-173, P-92-174, P-92-175, P-92-176, P-92-177, P-92-178, P-92-179, P-92-180, P-92-181, P-92-182, P-92-183, P-92-184, P-92-185, P-92-186, P-92-187, P-92-188, P-92-189, P-92-190, P-92-191, P-92-192, P-92-193, P-92-194, P-92-195, P-92-196, P-92-197, P-92-198, P-92-199, P-92-200, P-92-201, P-92-202, P-92-203, P-92-204, P-92-205, P-92-206, P-92-207, P-92-208, P-92-209, P-92-210, P-92-211, P-92-212, P-92-213, P-92-214, P-92-215, P-92-216, P-92-217, P-92-218, P-92-219, P-92-220, P-92-221, P-92-222, P-92-223, P-92-224, 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1688



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>Uma Swimmans</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE: 2/18/94		
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>Barbara M. Lazar</i> CHIEF, BUREAU OF HIGHWAYS DATE: 2-4-94		
<i>James M. ...</i> CHIEF, BUREAU OF ENGINEERING DATE: 2/17/94		
NO	DATE	REVISION
T S A GROUP INC. planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105		
OWNER	PROJECT	TITLE
CHARLES A. REESE GEORGE A. PARROTT BARBARA ANN FINAMORE SUSAN M. LAZAR % 10715 CHARTER DRIVE COLUMBIA, MARYLAND 21044	PATAPSCO RIDGE SECTION ONE	ROAD PROFILES
DEVELOPER	LOCATION	DATE
SECURITY DEVELOPMENT CORP 8420 BALTIMORE NATIONAL PIKE SUITE 415 ELLICOTT CITY, MARYLAND 21043	TAX MAP 35 - PARCELS 263, 840 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JULY 17, 1991 JAN. 11, 1994
DES. DAM	DRN. CAB	PROJECT NO. 399
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'		P-92-11 F-92-25



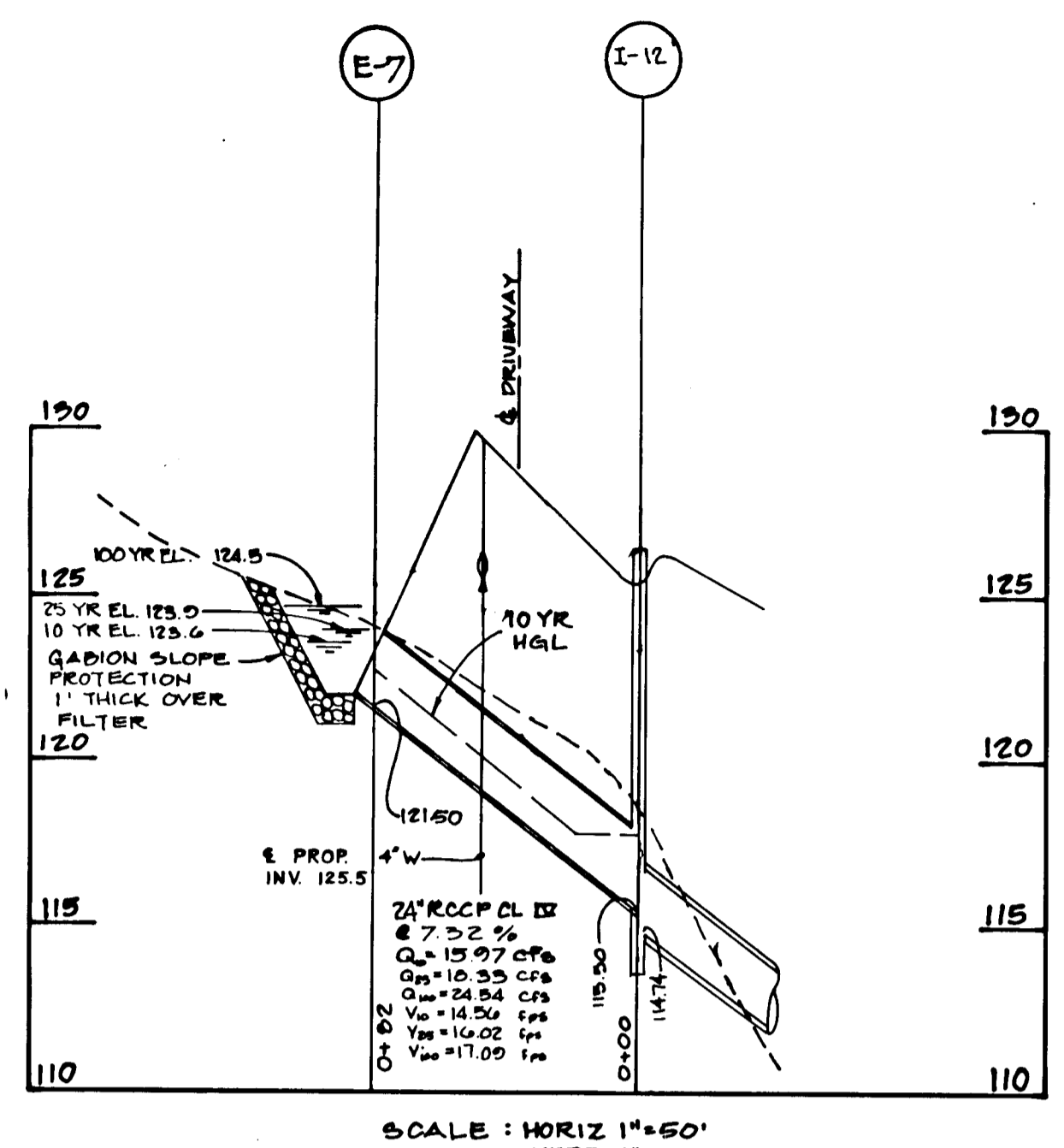
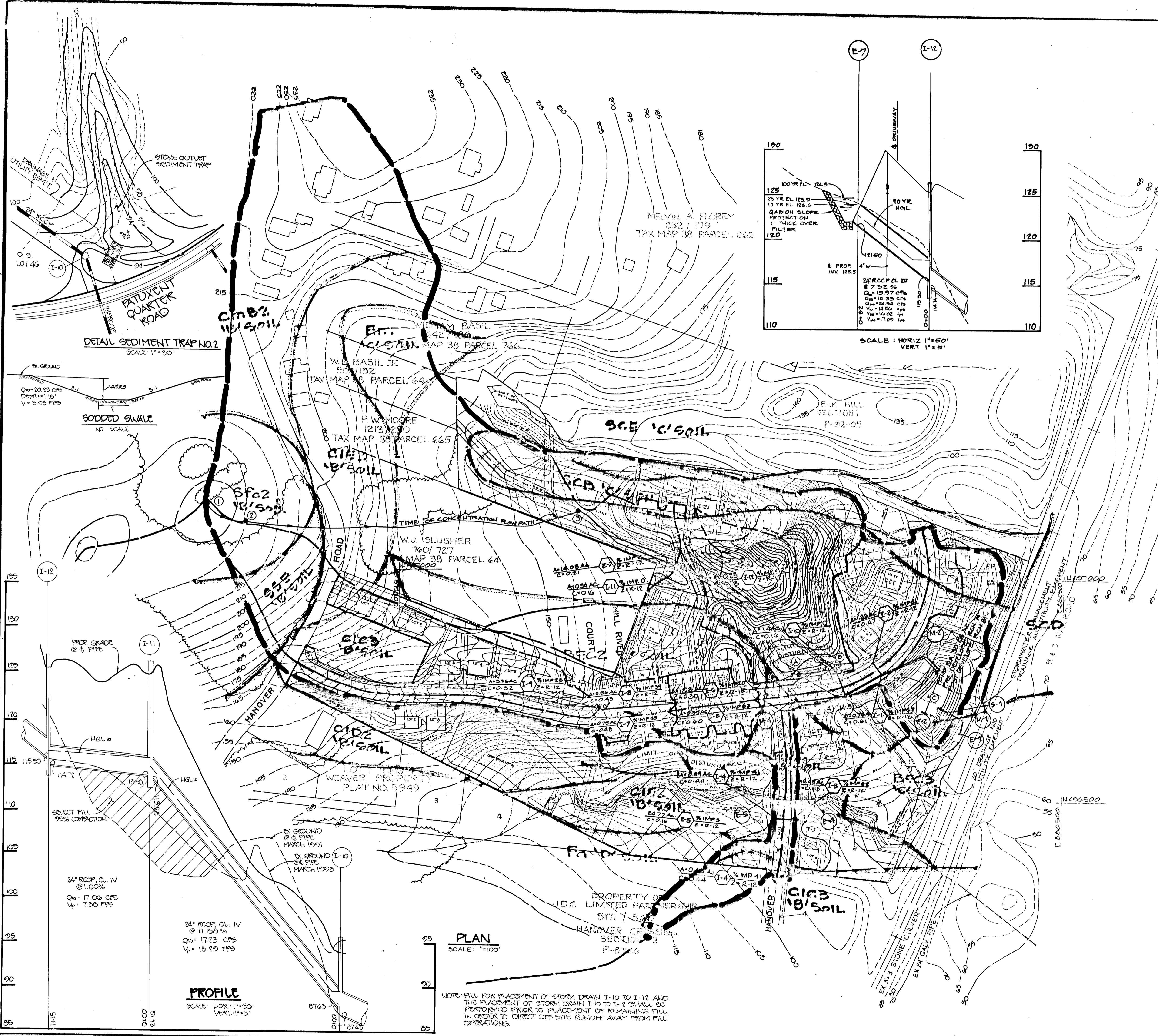
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Omnia Szymanski</i>	2/18/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Andrew M. Donker</i>	2-4-94
CHIEF, BUREAU OF HIGHWAYS	DATE
<i>Paul M. Soren</i>	2/17/94
CHIEF, BUREAU OF ENGINEERING	DATE

NO	DATE	REVISION
10-17-95		REVISE STORM DRAIN PROFILES PER STORM DRAIN ADDITIONS

T S A GROUP, INC
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER CHARLES A. REESE GEORGE A. PARROT BARBARA ANN FINAMORE SUSAN M. LAZAR 96 10715 CHARTER DRIVE COLUMBIA, MARYLAND 21044	PROJECT PATAPSCO RIDGE SECTION ONE
DEVELOPER SECURITY DEVELOPMENT CORP. 8480 BALTIMORE NATIONAL PIKE SUITE 415 ELLICOTT CITY, MARYLAND 21043	LOCATION TAX MAP 38 - PARCEL 263,649 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE JULY 17, 1991 JAN. 11, 1994	TITLE PROFILE HANOVER CROSSING WAY AND STORM DRAIN PROFILES
PROJECT NO: 3009	SCALE HORIZ 1"=50' VERT 1"=5'
DES. DAM	DRN. I.P.
DRAWING 3 OF 7	

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8897



STRUCTURE SCHEDULE									
NO.	ITEM	LOCATION	INV. IN	INV. OUT	Tc	ELEV	REMARKS		
I-1	A-5	15' RT STA 10+48.27 PATUXENT QUARTER RD.	15'0 84.88	24'0 78.22	77%	92.95	HO. CO. STD. 504.01		
I-2	A-5	15' LT STA 10+48.27 PATUXENT QUARTER RD.	--	88.20	--	92.95	HO. CO. STD. 504.01		
I-3	A-5	15' RT STA 17+61 HANOVER CROSSING WAY	88.84	88.59	--	93.35	--		
I-4	A-5	15' LT STA 17+61 HANOVER CROSSING WAY	--	89.18	--	93.35	--		
I-5	A-5 W/DEFL	15' RT STA 10+68 PATUXENT QUARTER RD.	15'0 98.06	18'0 97.81	--	97.01	103.24		
I-6	A-5 W/DEFL	15' LT STA 10+68 PATUXENT QUARTER RD.	--	98.40	--	103.24	--		
I-7	A-5 W/DEFL	15' RT STA 8+82 PATUXENT QUARTER RD.	113.19	112.99	--	119.09	--		
I-8	A-5 W/DEFL	15' LT STA 8+82 PATUXENT QUARTER RD.	114.65	114.40	--	119.09	--		
I-9	A-5 W/DEFL	15' LT STA 7+02 PATUXENT QUARTER RD.	--	126.1	--	130.89	--		
H-2	HANHOLE	55' RT STA 14+51 PATUXENT QUARTER RD.	87'0 15.56	75.26	--	86.0	HO. CO. STD. 451.2		
H-3	HANHOLE	22' RT STA 12+60 PATUXENT QUARTER RD.	24'0 64.55	24'0 80.94	--	84.69	84.28		
H-4	HANHOLE	17' RT STA 11+55 PATUXENT QUARTER RD.	18'0 87.81	18'0 85.94	--	89.79	84.78		
E-2	27" END SECTION	105' RT STA 14+48 PATUXENT QUARTER RD.	--	74.0	--	--	HO. CO. STD. 60352		
E-3	24" END SECTION	40' RT STA 12+58 PATUXENT QUARTER RD.	87.0	--	--	--	--		
E-4	20" END SECTION	61' RT STA 18+09 HANOVER CROSSING WAY	--	72.0	--	--	--		
E-5	20" END SECTION	48' LT STA 17+95 HANOVER CROSSING WAY	80.15	--	--	--	--		
E-6	24" END SECTION	48' PLAN SHEET No. 1	85.50	--	--	86.00	86.00		
E-7	24" END SECTION	48' PLAN SHEET No. 1	121.90	--	--	116.00	116.00		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Uma Thurman
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/18/94 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Uma Thurman
 CHIEF, LAND DEVELOPMENT DIVISION 2/16/94 DATE
Andrew M. Danek
 CHIEF, BUREAU OF HIGHWAYS 2-4-92 DATE
Phillip S. ...
 CHIEF, BUREAU OF ENGINEERING 2/17/94 DATE

10-16-95 ADD STORM DRAINS, REVISE DRAINAGE AREAS AND STRUCTURE SCHEDULE
 NO. DATE REVISION

T S A GROUP INC.
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 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: CHARLES A. REESE, GEORGE A. PARROT, BARBARA ANN FINAMORE, SUSAN M. LAZAR, % 10715 CHARTER DRIVE, COLUMBIA, MARYLAND 21044
 PROJECT: PATAPSCO RIDGE SECTION ONE
 LOCATION: TAX MAP 38 - PARCELS 263, 849, 1ST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 DEVELOPER: SECURITY DEVELOPMENT CORP., 8480 BALTIMORE NATIONAL PIKE, SUITE 415, ELLICOTT CITY, MARYLAND 21043
 TITLE: DRAINAGE AREA MAP
 DATE: JULY 17, 1991
 PROJECT NO. 0399
 DES. DAM DRN. DBT SCALE AS SHOWN DRAWING 4 OF 9

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Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

Material: The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement: Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction: The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by no less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off Trench: The cutoff trench shall be excavated into impervious material adjacent to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe: All of the following criteria shall apply for corrugated metal pipe:

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nexon, Plasticoat, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used in connections. The pH of the surrounding soils shall be below 4 and 9.

- Coupling bands, anti-seep collars, and sections, etc., must be composed of the same material as the pipe. Materials must be insulated from dissimilar materials with use of rubber or plastic insulating material at least 24 mils in thickness.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide huggier type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 48" in diameter and larger shall be connected by a 24" long, annular corrugated band using rods and lugs. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

Helically corrugated pipe shall have either continuously welded seams or have lock seams.

- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill."

- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe: All of the following criteria shall apply for reinforced concrete pipe:

- Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361. An approved equivalent is AWWA Specification C-302.

Bedding: All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of 12" slump concrete placed under the pipe and on the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 4 inches, or as shown on the drawings.

- Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Polyvinyl Chloride (PVC) Pipe: All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

- Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.

- Joints and connections to anti-seep collars shall be completely watertight.

Bedding: The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 608, Mix No. 3

Rock Riprap

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

Care of Water during Construction

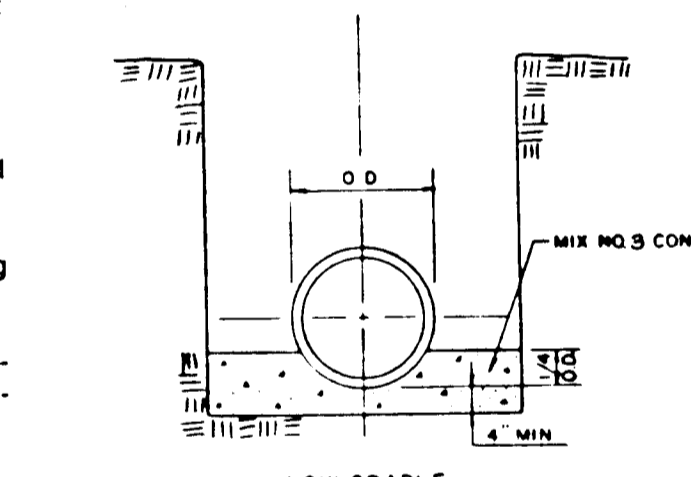
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, mulching and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

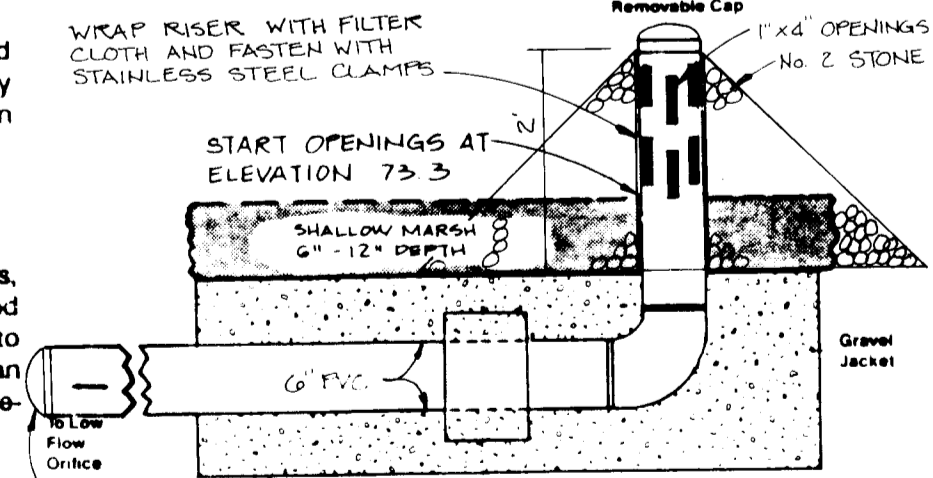
Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

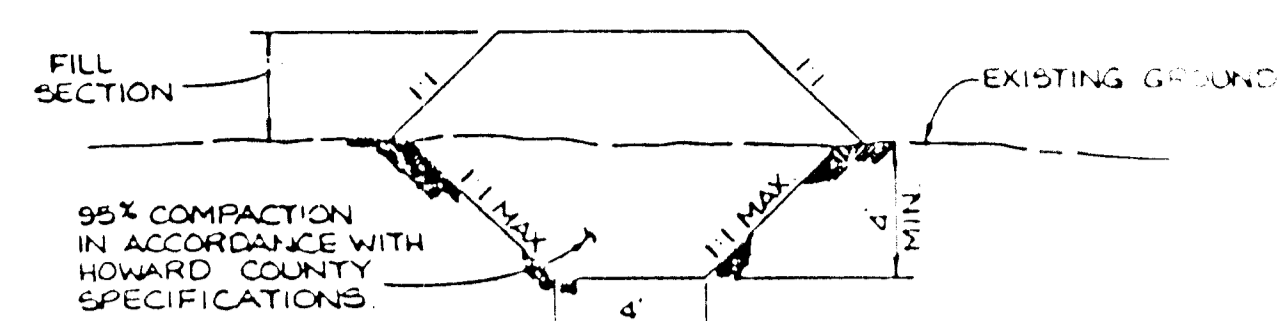
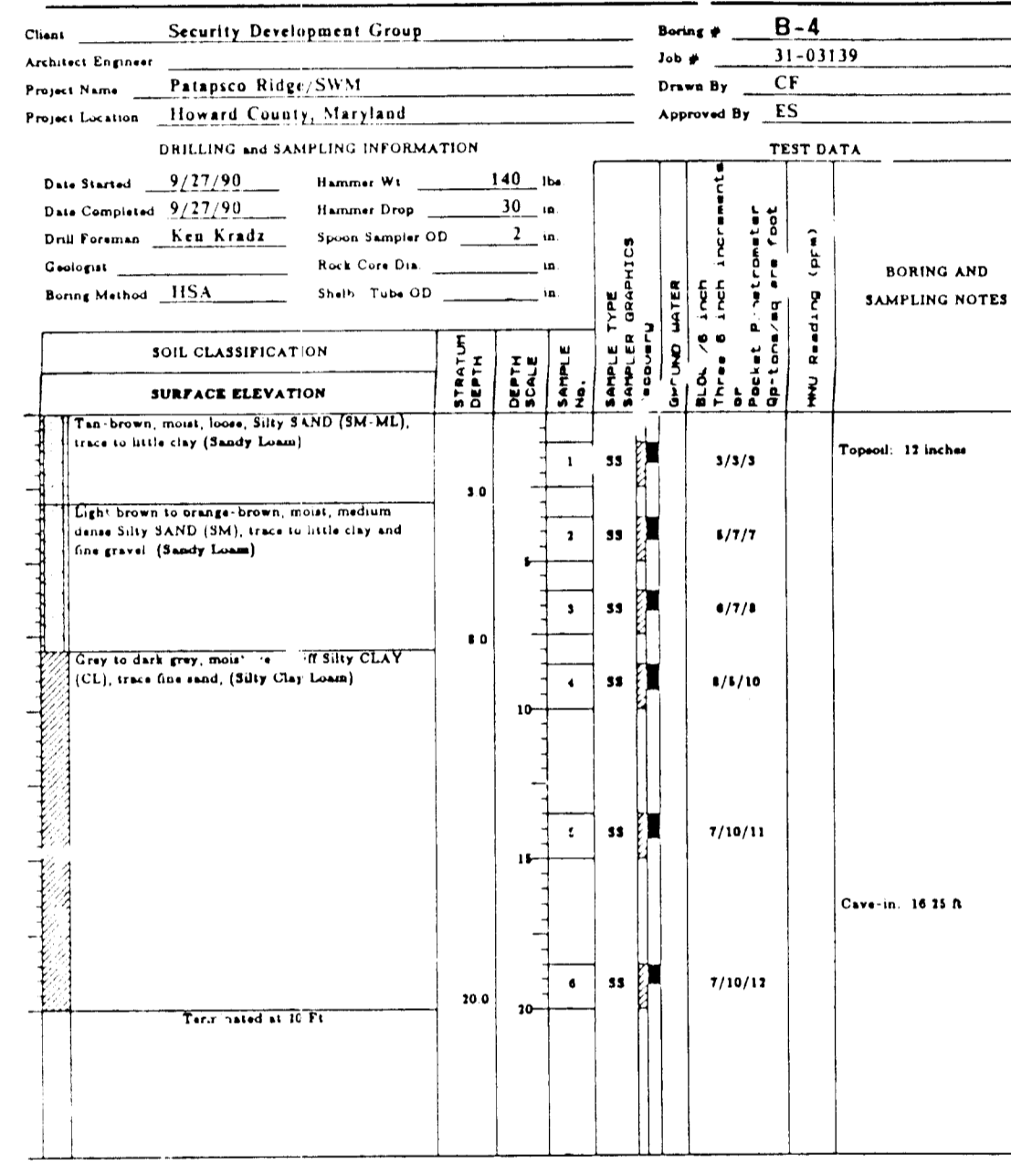
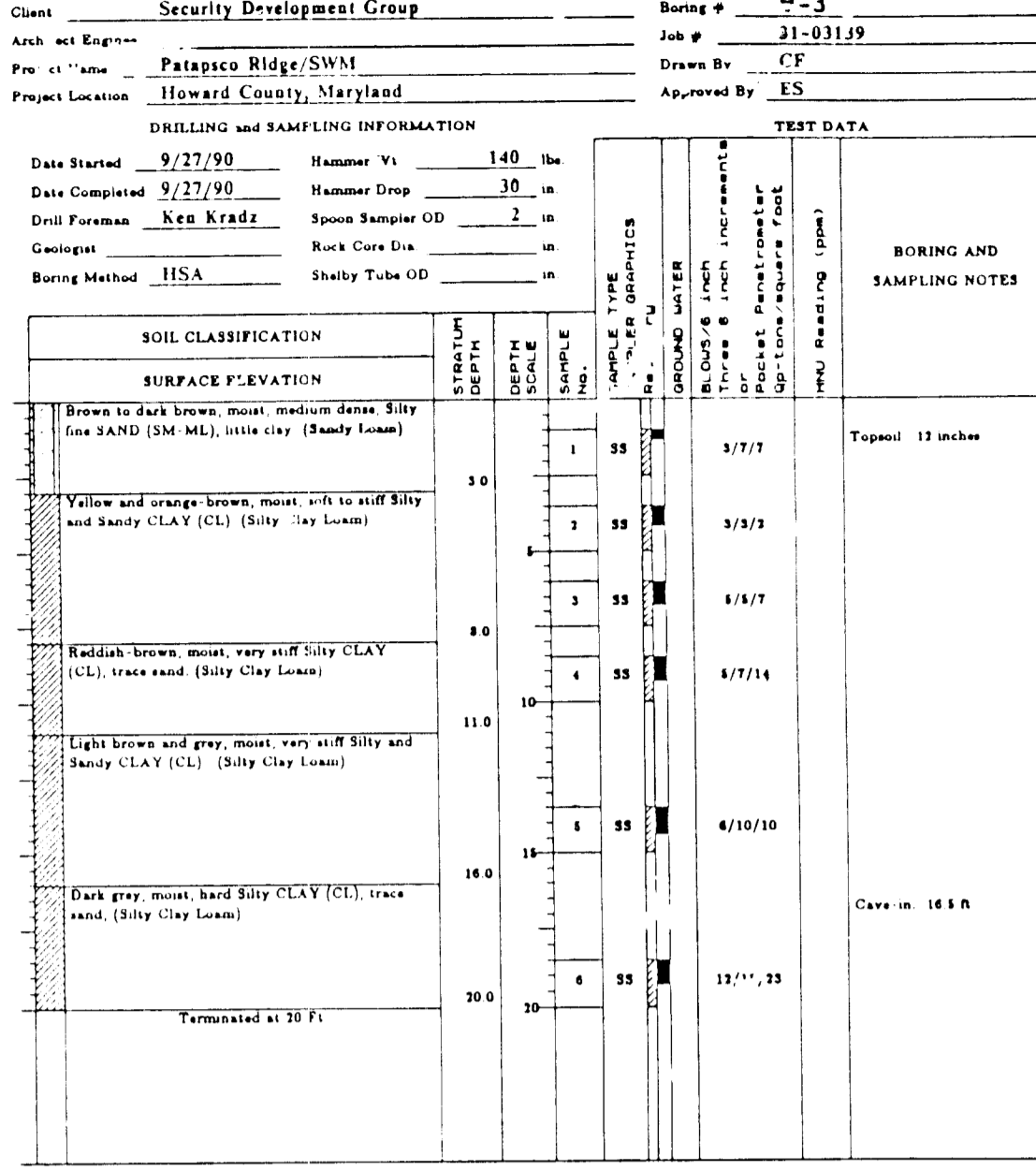
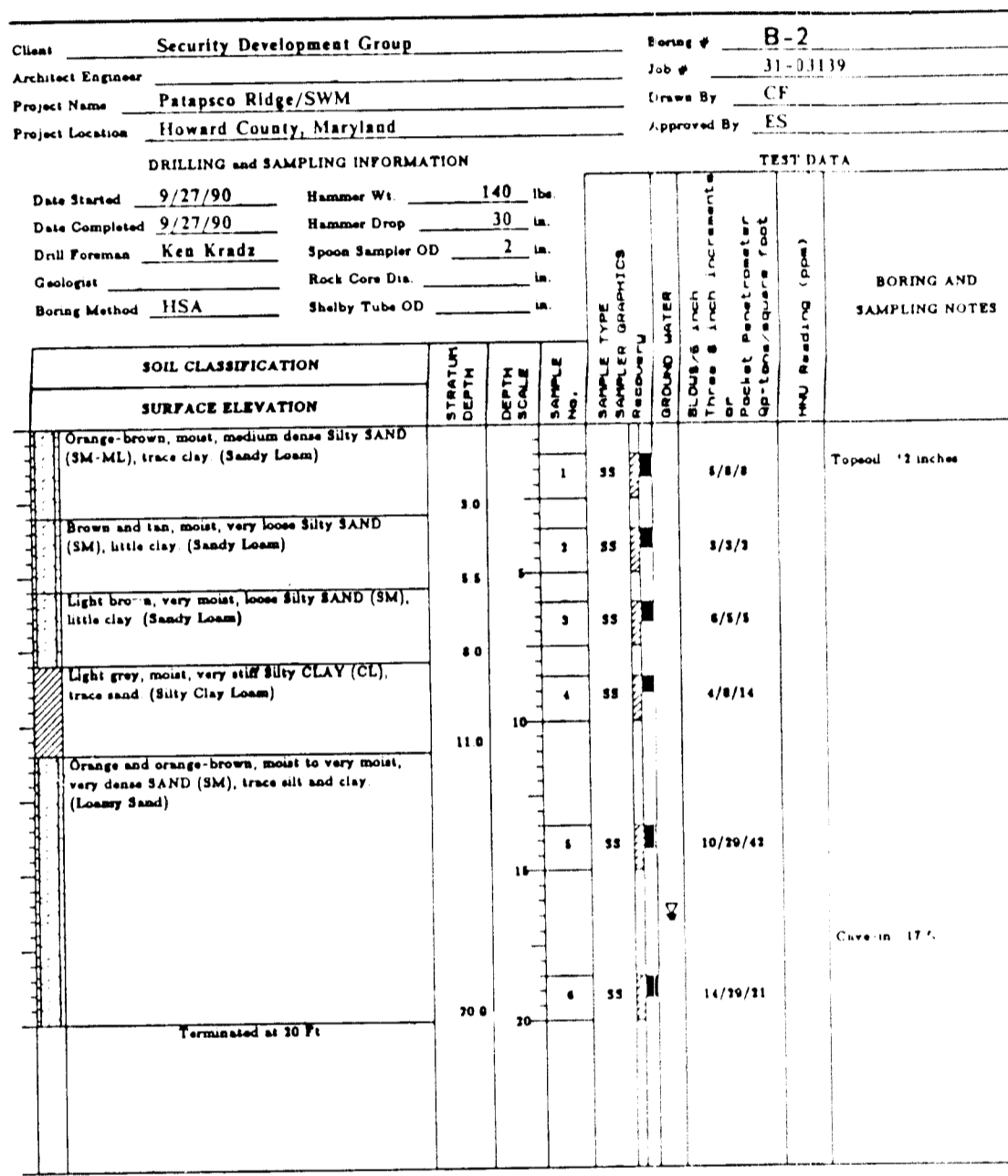
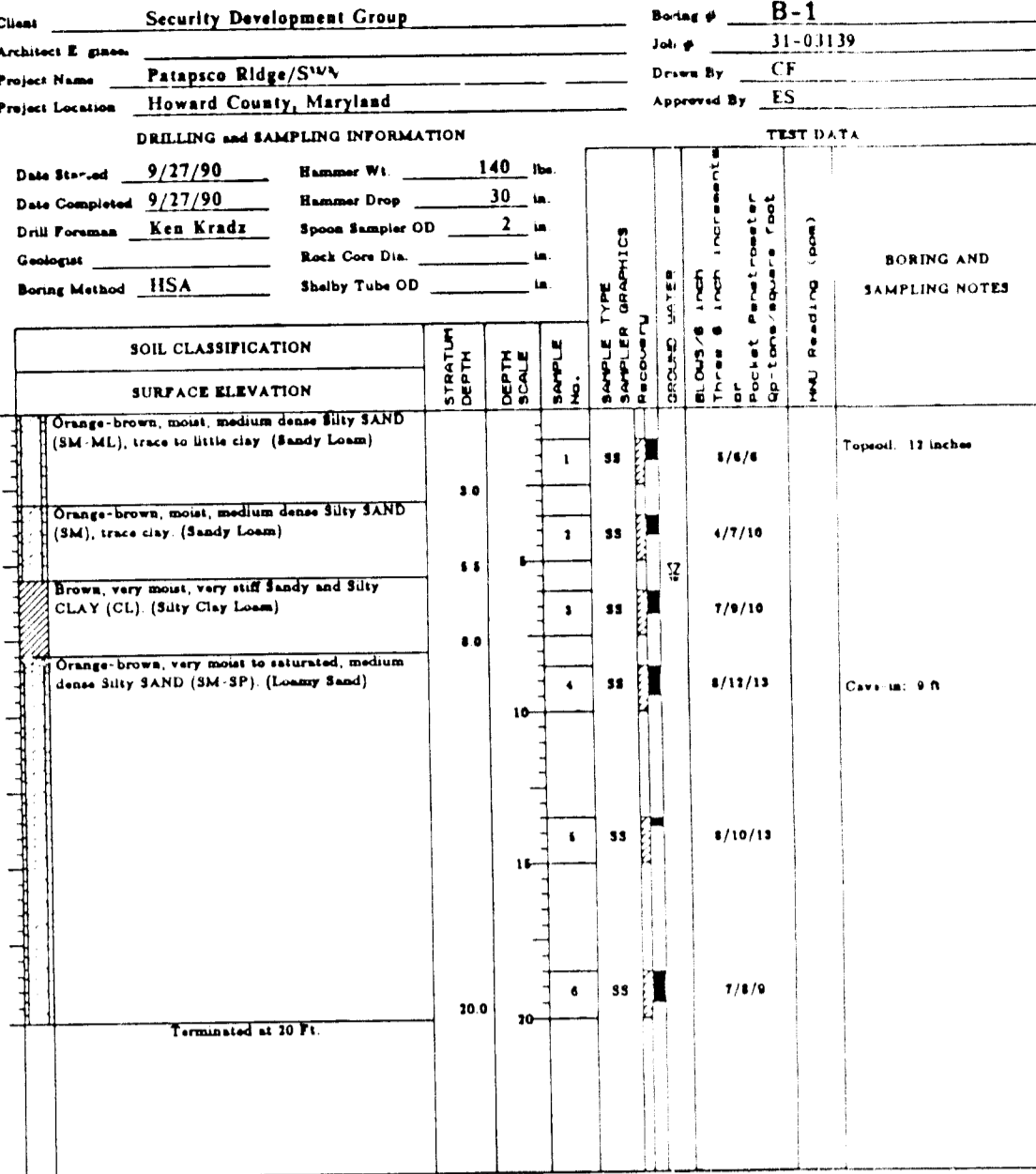


NOTES:
1. POUR CONCRETE TO UNDISTURBED EARTH REMOVE SHEETING BEFORE POURING CONCRETE
2. ON LEAVE LOWER PORTION OF SHEETING IN PLACE

**CONCRETE CRADLE
DETAIL
NO SCALE**



**LOW FLOW PIPE DETAIL
NO SCALE**



**CORE TRENCH SECTION
NO SCALE**

NOTE: 1. CORE TRENCH SHALL EXTEND TO IMPERVIOUS MATERIAL (CLCH) AS DETERMINED BY A GEOTECHNICAL ENGINEER ON SITE, AND MAY REQUIRE TO BE HAILED FROM AN OPPOSITE LOCATION.
2. IF WATER IS ENCOUNTERED DURING THE CONSTRUCTION OF THE CORE TRENCH IT IS TO BE REMOVED BY PUMPING.

By the Developer:
"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
Signature of Developer: _____ Date: _____

By the Engineer:
"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
Signature of Engineer: JOHN M. FLORRAGA Date: _____

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

U.S. SOIL CONSERVATION SERVICE DATE: _____

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

APPROVED: [Signature] DATE: _____
HOWARD S.C.D.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
[Signature] DATE: _____
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: _____
CHIEF, LAND DEVELOPMENT DIVISION

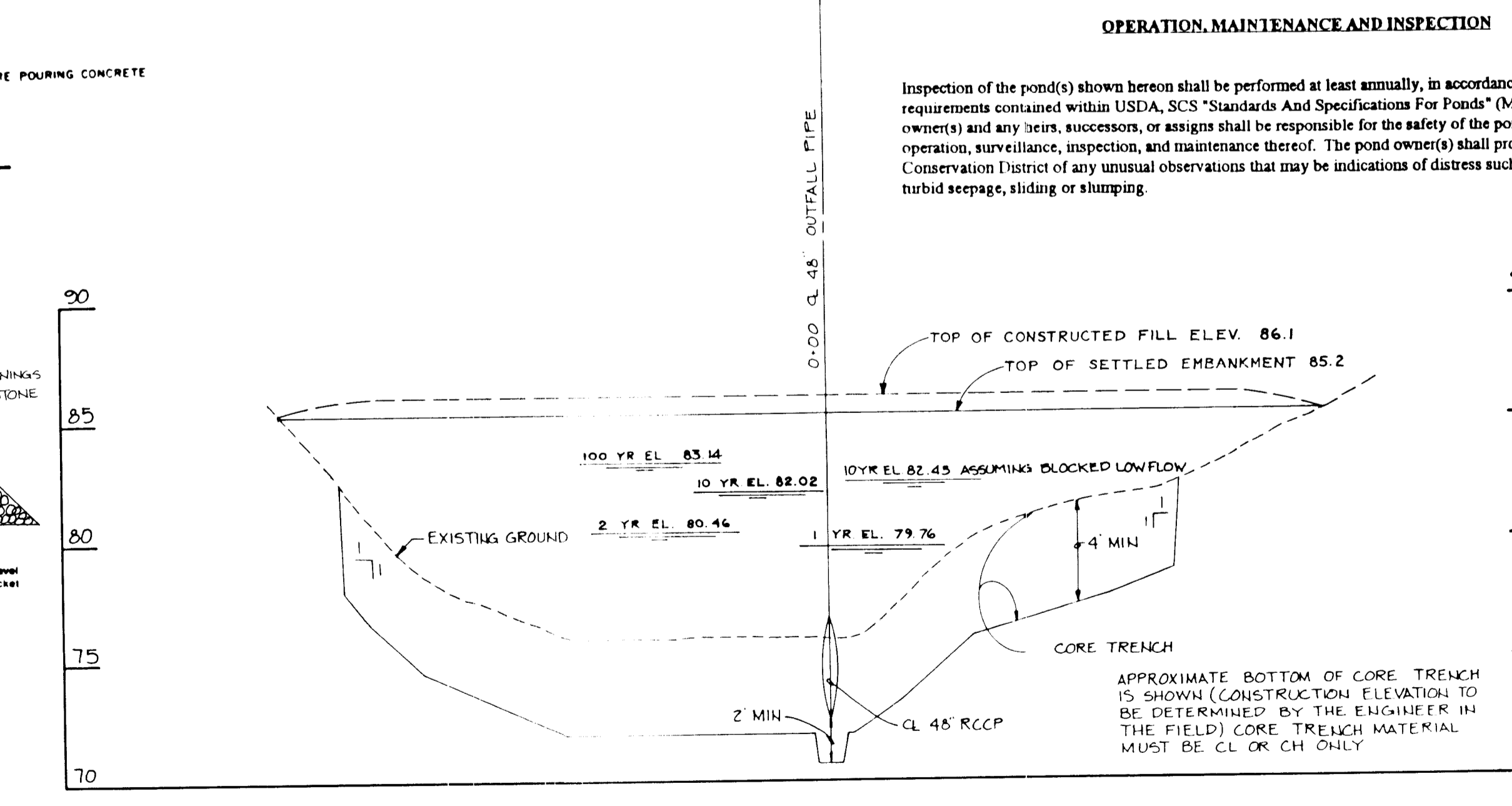
[Signature] DATE: _____
CHIEF, BUREAU OF HIGHWAYS

[Signature] DATE: _____
CHIEF, BUREAU OF ENGINEERING

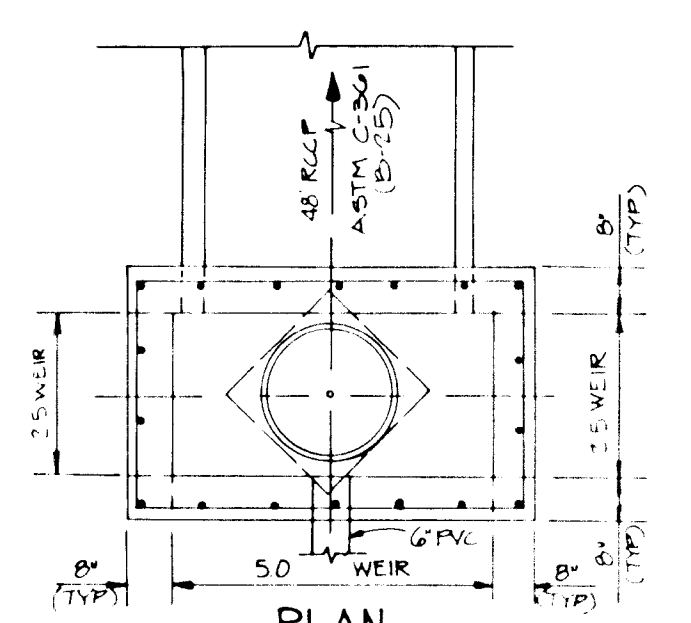
NO DATE REVISION

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planning • architecture • engineering
8480 Baltimore National Pike • Suite 418 • Ellicott City, Maryland 21043 • (410) 976-1100

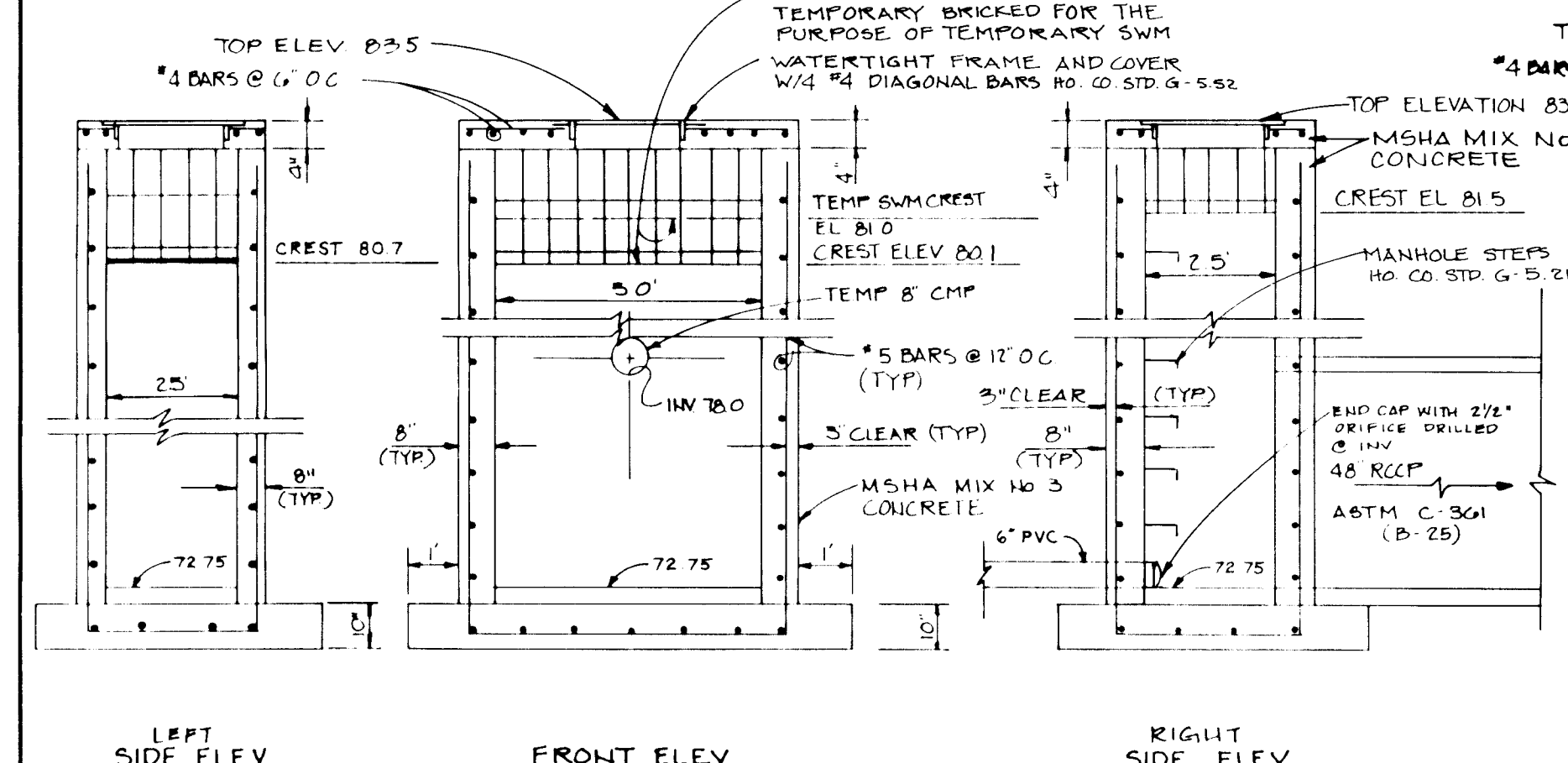
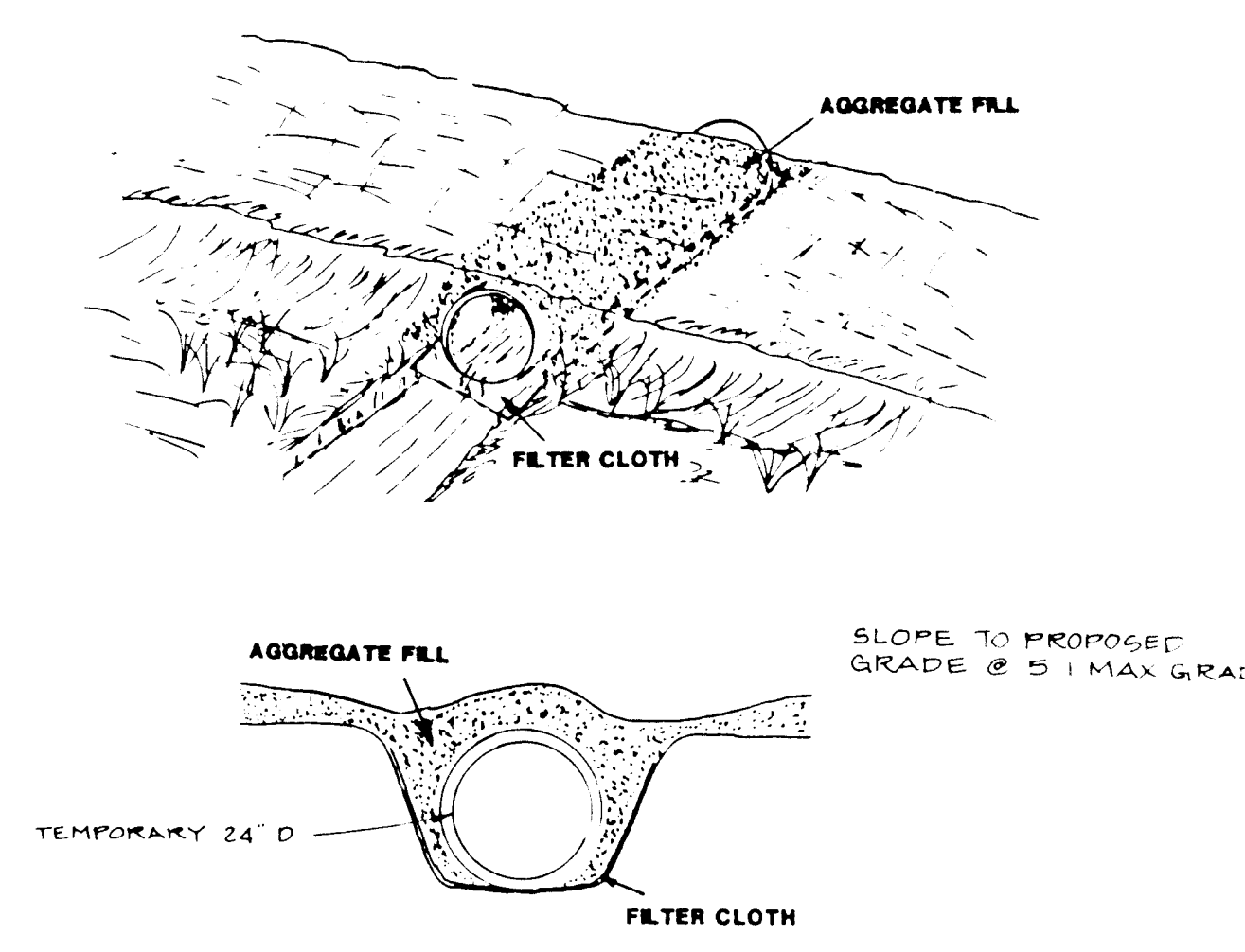
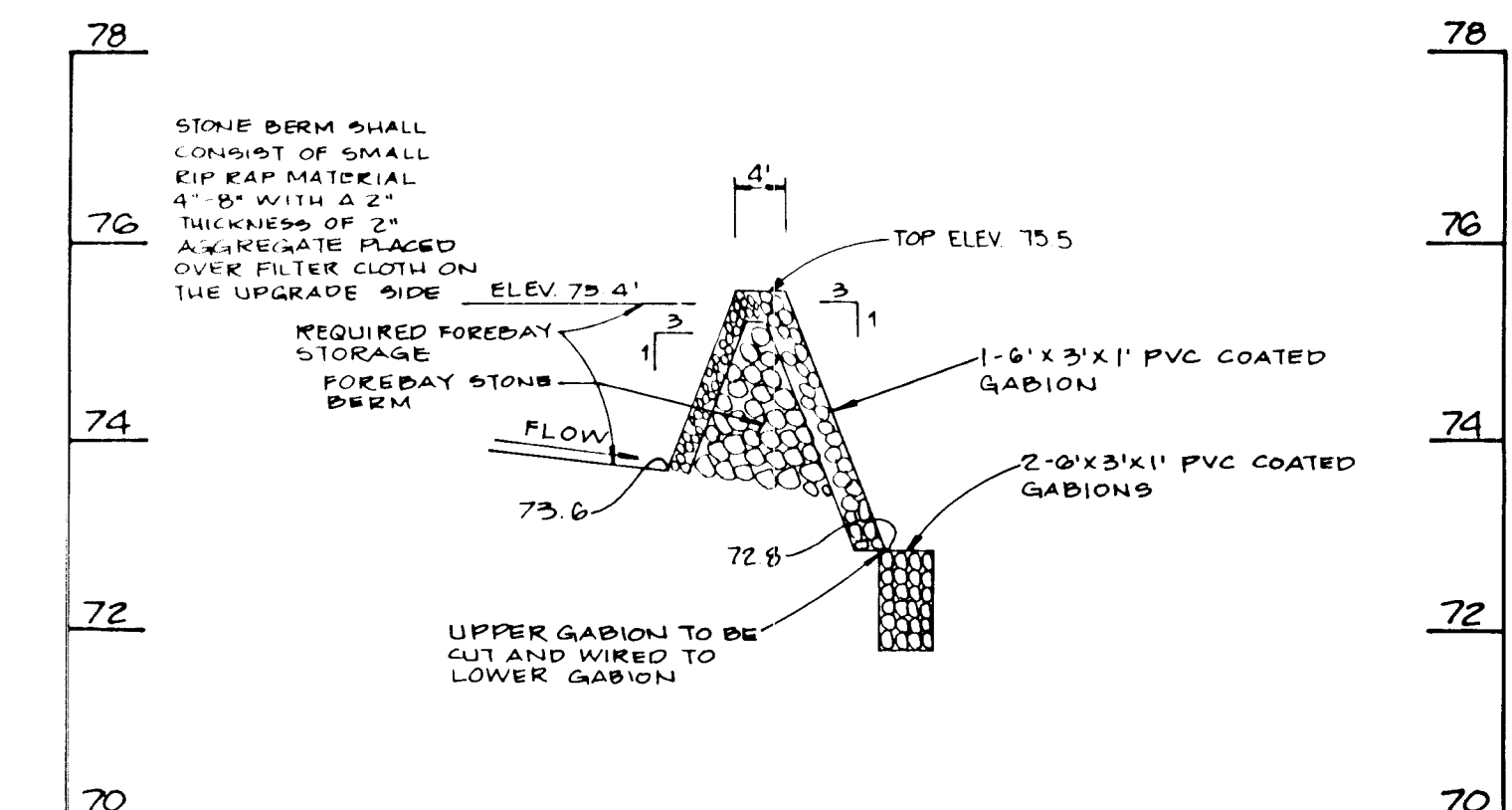
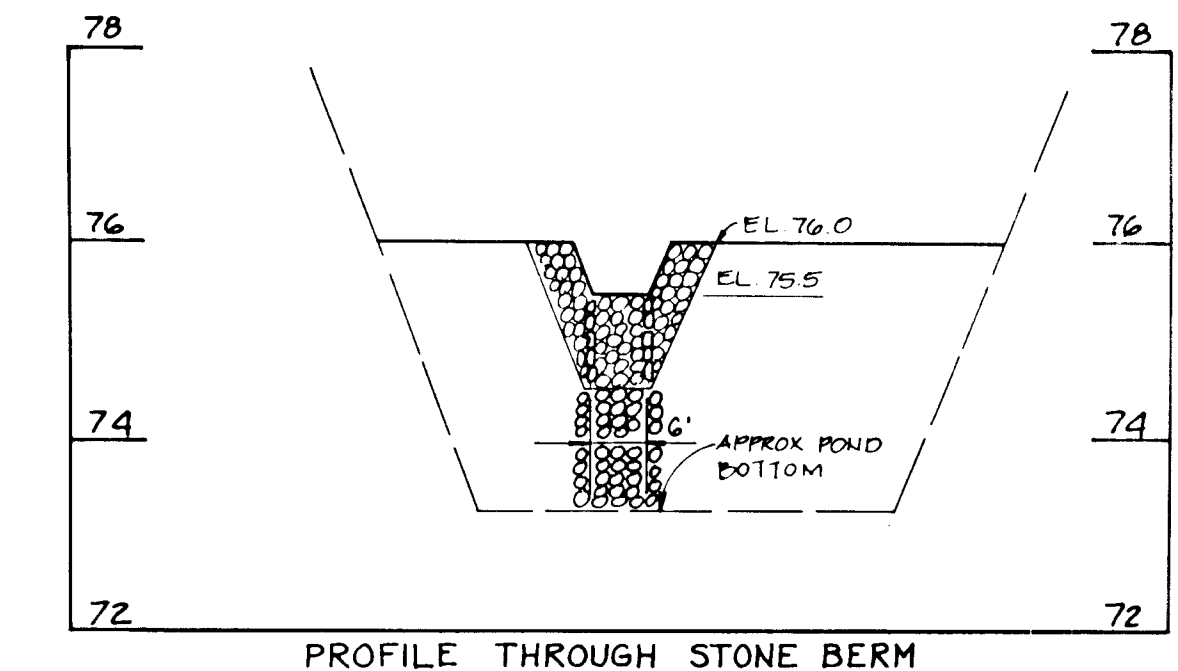
OWNER: CHARLES A REESE, GEORGE A PARROT, BARBARA ANN FINAHORE, SUSAN M LAZAR, 510715 CHARTER DRIVE, COLUMBIA, MARYLAND 21044
PROJECT: PATAPSCO RIDGE SECTION 10
LOCATION: TAX MAP 38 - PARCEL 269 849, 1ST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
DEVELOPER: SECURITY DEVELOPMENT CORP, 8480 BALTIMORE NATIONAL PIKE SUITE 415, ELICOTT CITY, MARYLAND 21043
TITLE: STORMWATER MANAGEMENT SPECIFICATIONS AND DETAILS FOR 15-00-73 WP-01-94 POND 127 F 02-25
DATE: JULY 17, 1994 PROJECT NO: 15-00-73
DES: D AM DRN: IP SCALE: AS SHOWN DRAWING NO. OF _____



**CL EMBANKMENT PROFILE
THE FACILITY
SCALE: HORIZ 1" = 50'
VERT 1" = 5'**

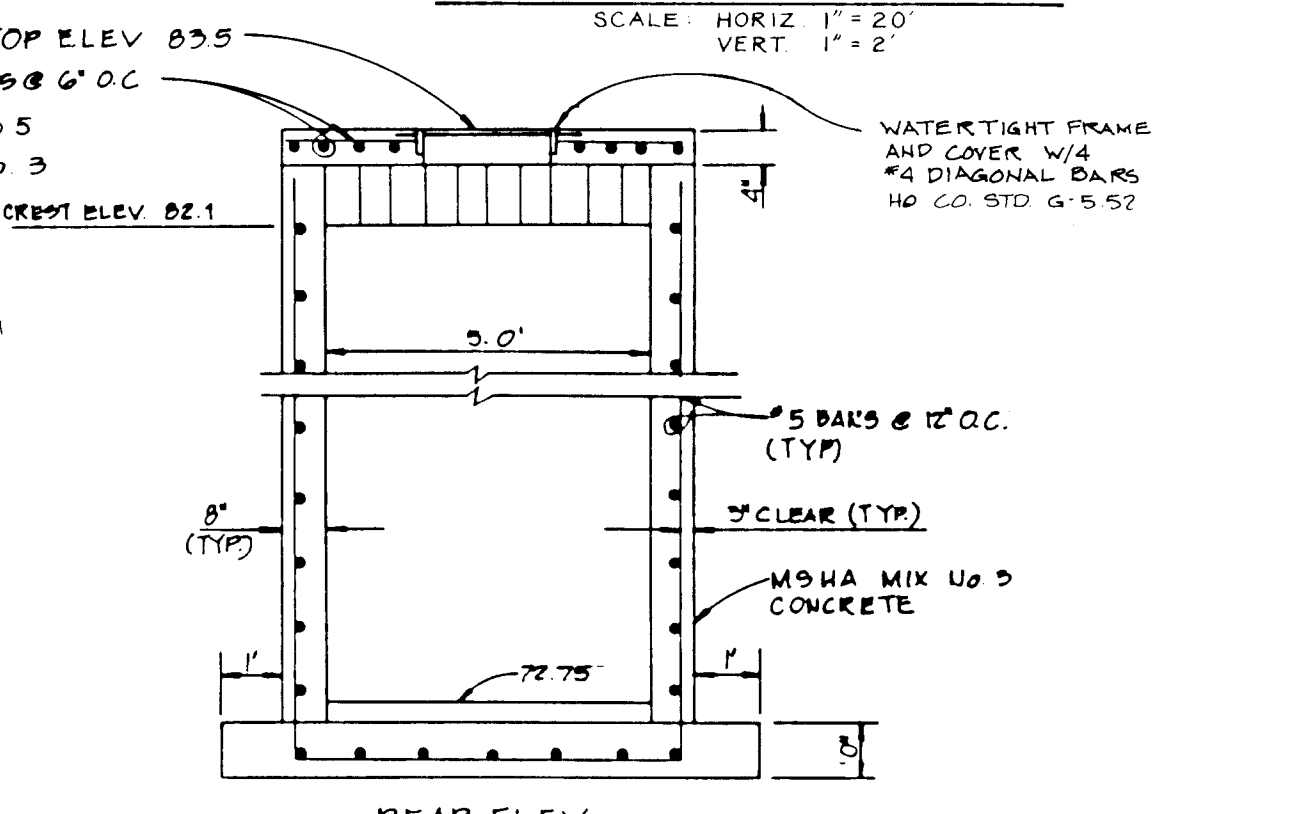


NOTE: 1. TEMPORARY B.C.M.P. PROVIDED FOR TEMPORARY SWM PHASE SHALL BE REMOVED AND WEIR WALL REPAIRED WITH CONCRETE TO PERMANENT SWM PHASE.
2. #4 DIAGONAL BARS @ STORM DRAIN PIPES AND MH OPENINGS

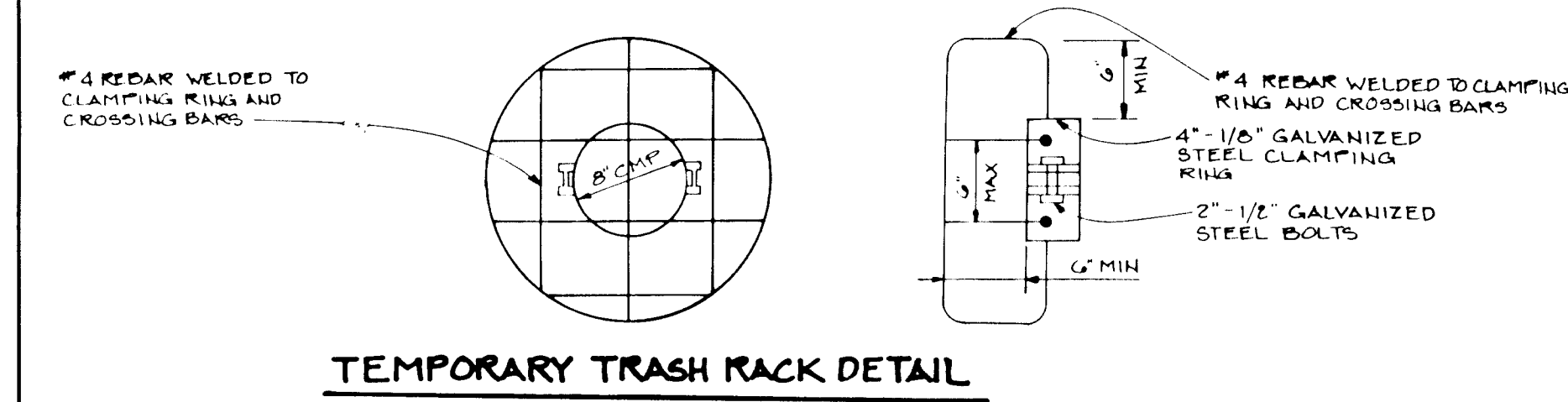


CONTROL STRUCTURE DETAIL

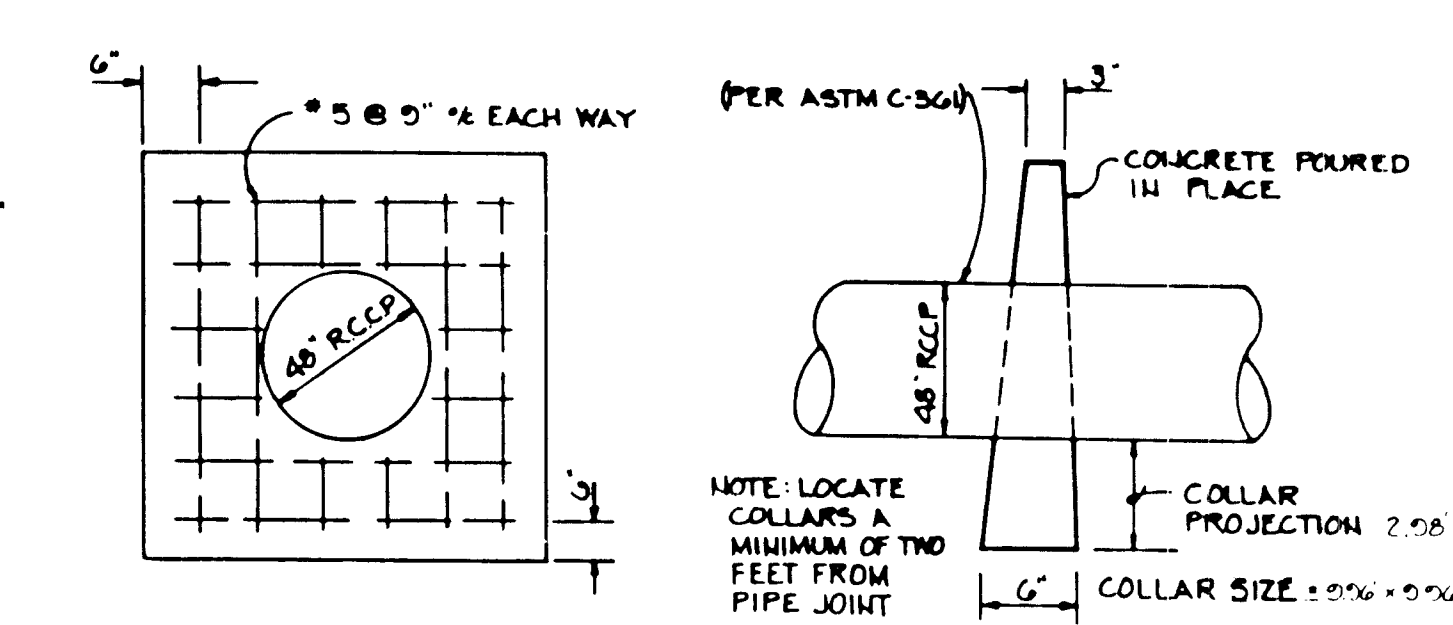
SCALE: 1" = 3'



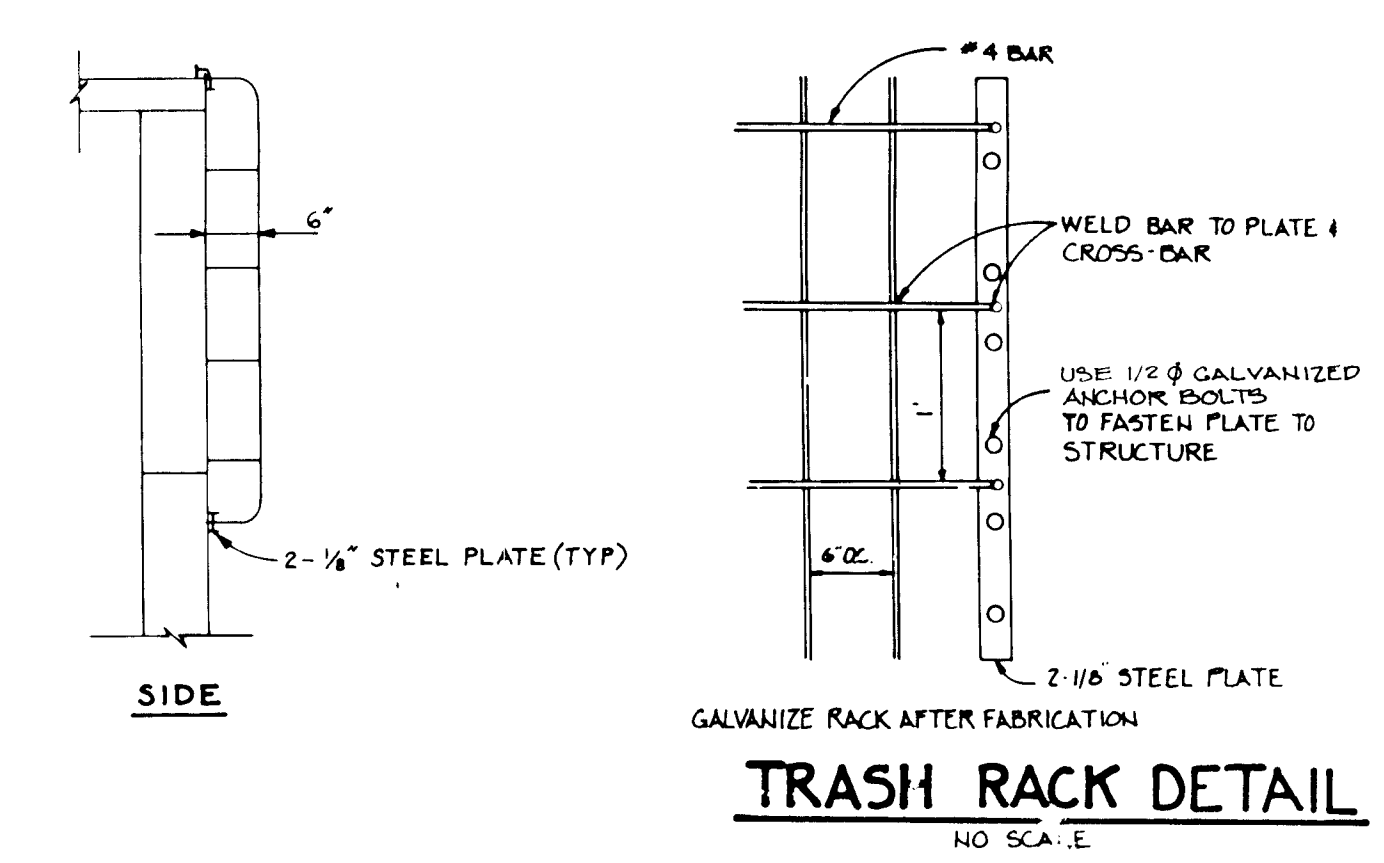
REAR ELEV



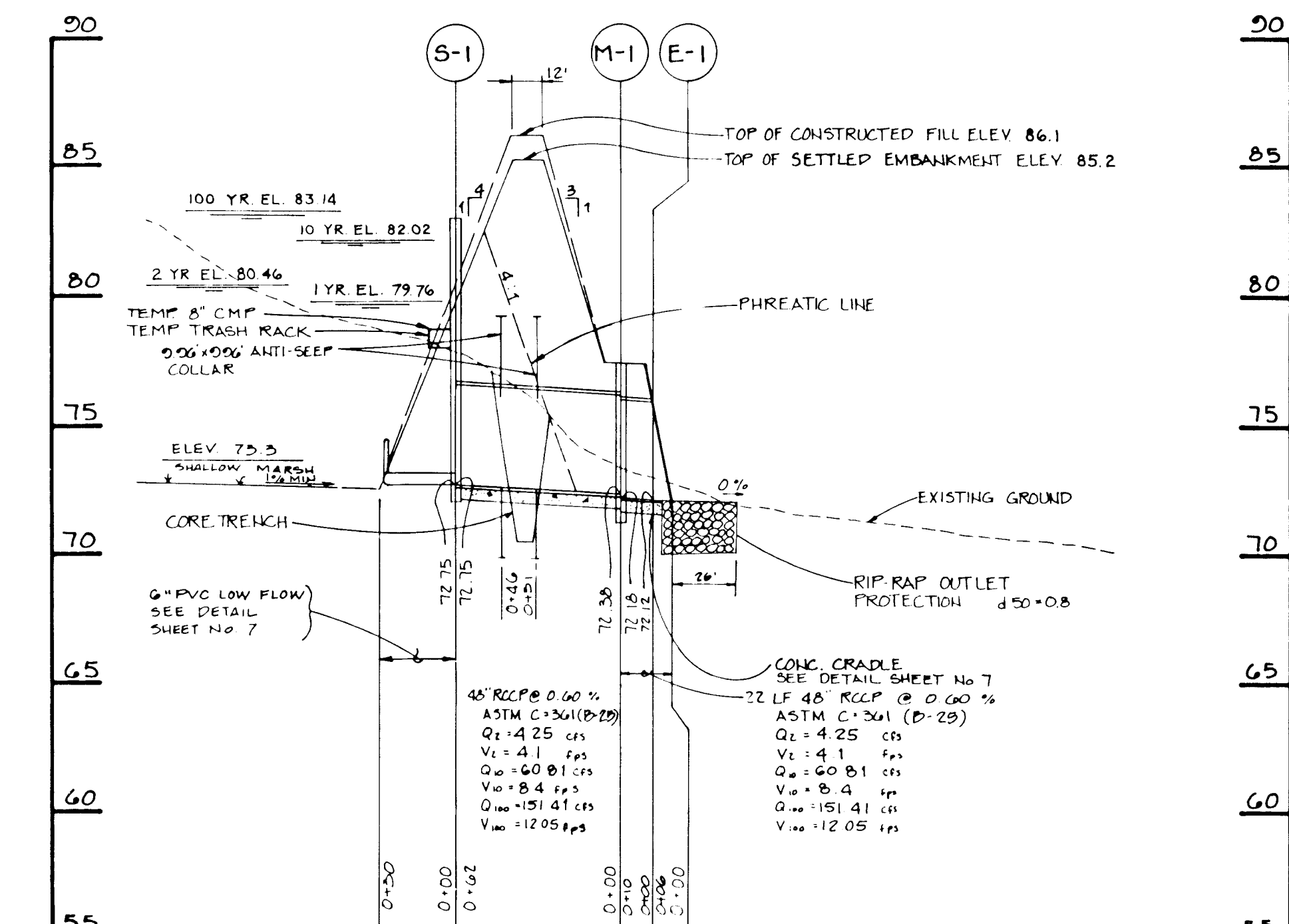
TEMPORARY TRASH RACK DETAIL



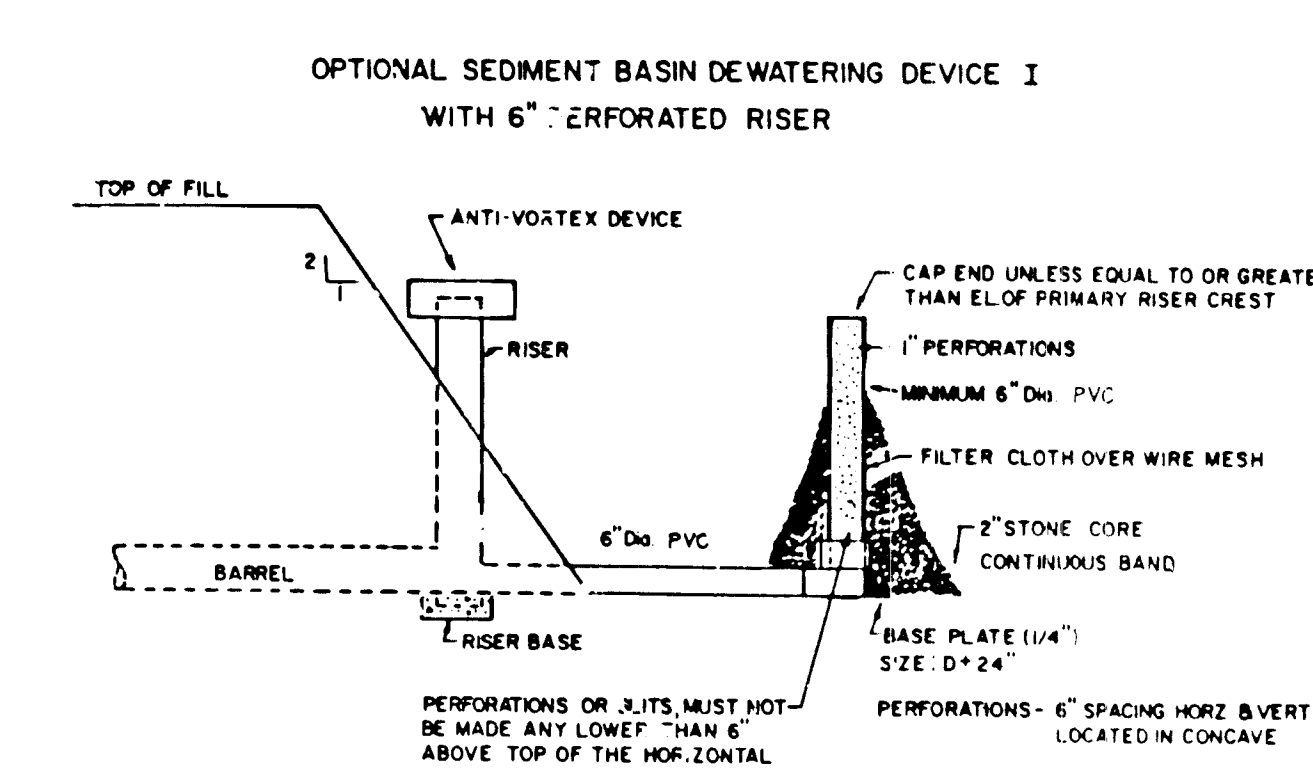
ANTI-SEEP COLLAR



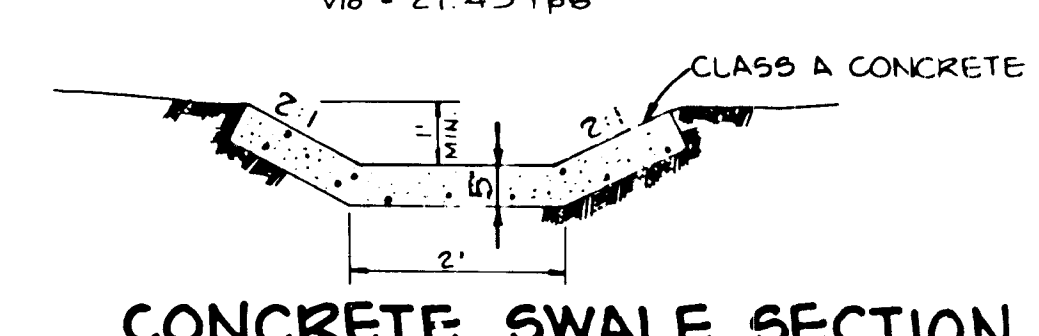
TRASH RACK DETAIL



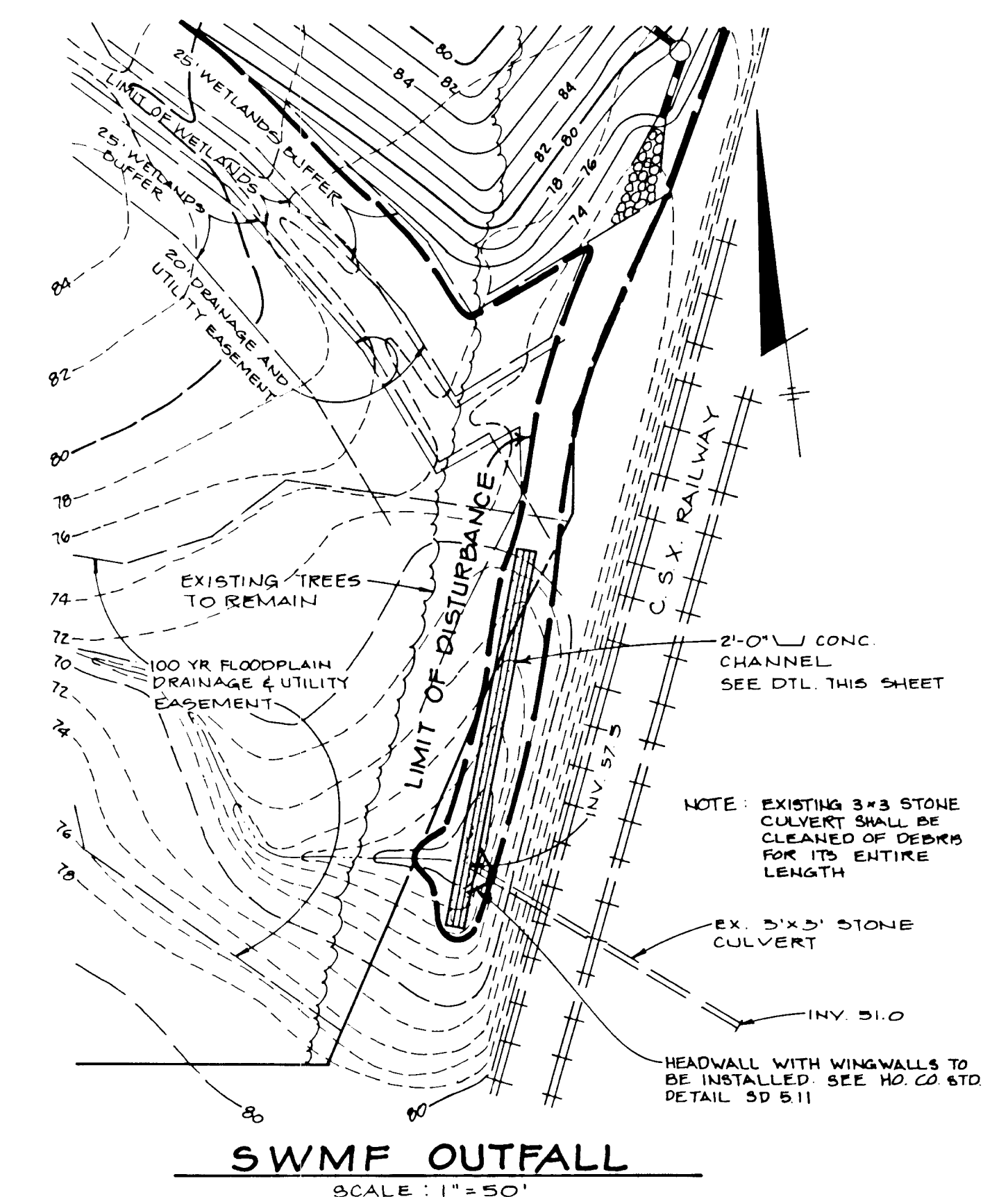
PRINCIPAL SPILLWAY PROFILE



DEWATERING DEVICE FOR USE DURING SEDIMENT CONTROL



CONCRETE SWALE SECTION

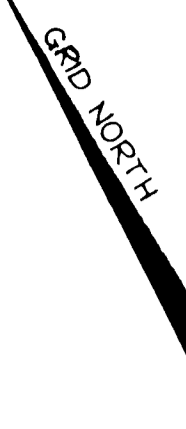


SWMF OUTFALL

<p>By the Developer:</p> <p>"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."</p> <p>Signature of Developer _____ Date _____</p>	
<p>By the Engineer:</p> <p>"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."</p> <p>Signature of Engineer _____ Date _____</p>	
<p>THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.</p> <p>U.S. SOIL CONSERVATION SERVICE _____ DATE _____</p>	
<p>THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p>APPROVED _____ HOWARD S.C.D. _____ DATE _____</p>	
<p>APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>_____ CHIEF, LAND DEVELOPMENT DIVISION _____ DATE _____</p> <p>_____ CHIEF, BUREAU OF HIGHWAYS _____ DATE _____</p> <p>_____ CHIEF, BUREAU OF ENGINEERING _____ DATE _____</p>	
<p>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>_____ CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH _____ DATE _____</p>	
<p>NO. _____ DATE _____ REVISION _____</p>	
<p>T S A GROUP INC. planning • architecture • engineering 8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (301)465-6100</p>	
OWNER	PROJECT
<p>CHARLES A. REESE GEORGE A. PARROT BARBARA ANN FINAMORE SUSAN M. LAZAR 561015 CHARTER DRIVE COLUMBIA, MARYLAND 21044</p>	<p>PATAPSCO RIDGE SECTION ONE</p>
DEVELOPER	LOCATION
<p>SECURITY DEVELOPMENT CORP 2480 BALTIMORE NATIONAL PIKE SUITE 415 ELLCOTT CITY, MARYLAND 21043</p>	<p>TAX MAP 30 - PARCEL 263 049 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p>
DES.	TITLE
DAM	STORMWATER MANAGEMENT DETAILS
DRN.	DATE: JULY 17, 1991
CAB	JAN 11, 1993
	PROJECT NO. 0309
	SCALE: AS SHOWN
	DRAWING A OF 9

1688

SHALLOW MARSH PLANTING LIST							
HAP SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	FORM	INDICATOR	
A1	RICE CUT GRASS	LEERSIA ORYZOIDES	SEED MIXING	40LBS/AC	GRASS	OBL	
A2	BULRUSH	SCRIPUS CYPERINUS	ROOT STOCK	3' O.C.	SEDE	FACW	



PROPERTY OF
 CHARLES A. REESE
 GEORGE A. PARROTT
 BARBARA ANN FINAMORE
 SUSAN M. LAZAR
 TAX MAP 38 PARCEL 793

**STORMWATER MANAGEMENT
 SHALLOW MARSH PLANTING**
 SCALE: 1" = 30'

FUTURE SECTION 2
 PATAPSCO RIDGE
 1935 / 719

PROPERTY OF
 WILLIAM SLUSHER AND WIFE
 1760 / 727

EX. C.O.

EX. HOUSE

EX. BARN

EX. SHED

COURT

QUARTER

HANDY CROSSING

PATUXENT

MILL RIVER

EX. HOUSE

SHED

EX. WOODS TO REMAIN

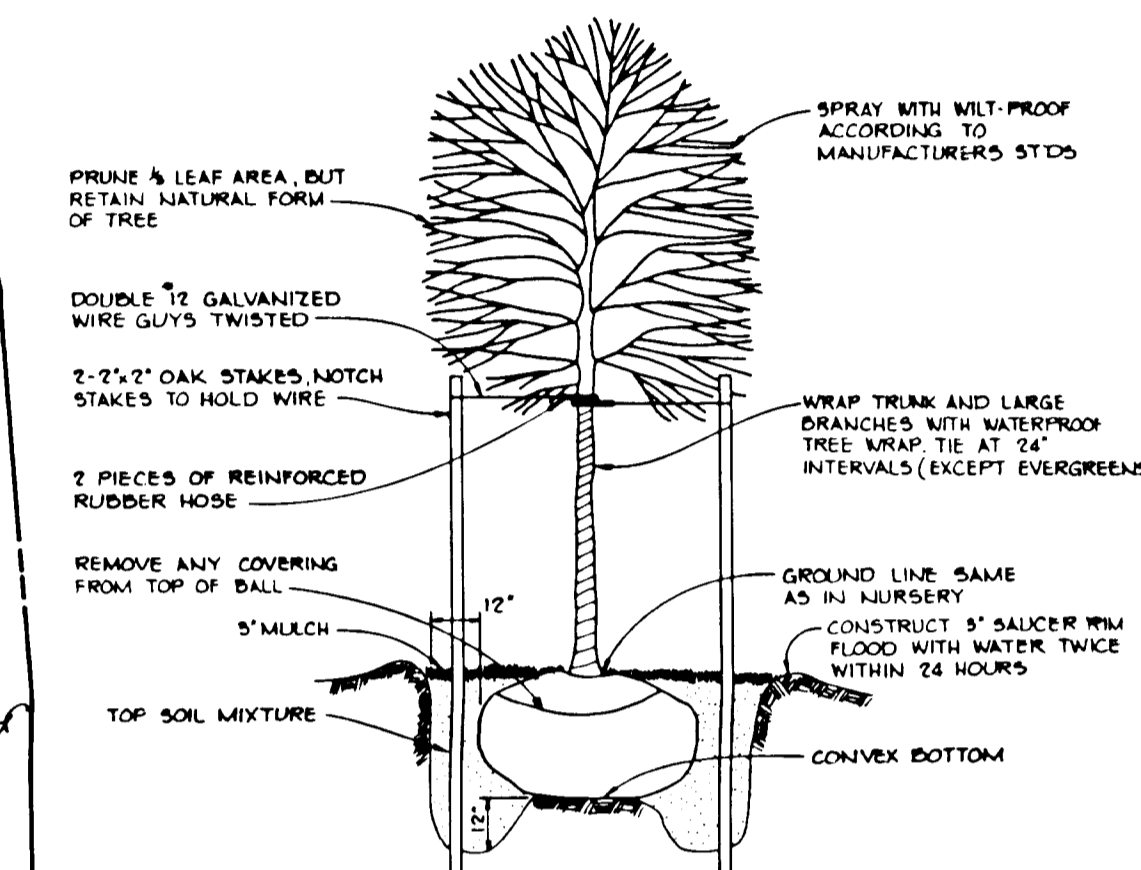
PROPERTY OF
 SECURITY DEVELOPMENT CORP.
 INDIVIDUAL PARTNERSHIP
 12/1/93

PLAN
 SCALE: 1" = 50'

PLANT LIST

SYMBOL	QUANTITY	NAME	
(Circle with dot)	13	ACER RUBRUM RED MAPLE	
(Circle with horizontal lines)	16	QUERCUS PALUSTRIS PIN OAK	2 1/2' B & FULL HI
(Circle with vertical lines)	6	PINUS STROBUS EASTERN WHITE PINE	5'-6' UNSHEARED

NOTE: 1) TREES MUST BE A MINIMUM OF 4 FEET FROM THE CURB OR SIDEWALK AND MUST BE A MINIMUM OF 5' FROM ANY STORM DRAIN.
 2) A 20' MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND ANY STREET LIGHT.



TREE PLANTING DETAIL
 NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Howard County
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Howard County
 CHIEF, BUREAU OF HIGHWAYS DATE

Howard County
 CHIEF, BUREAU OF ENGINEERING DATE 2/17/94

10-11-95 ADD STORM DRAIN, REVISE LIMIT OF WETLANDS ON D.S. LOTS 45 & 46
 NO DATE REVISION

T S A GROUP INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER CHARLES A. REESE GEORGE A. PARROTT BARBARA ANN FINAMORE SUSAN M. LAZAR % 10 715 CHARTER DRIVE COLUMBIA, MARYLAND 21044	PROJECT PATAPSCO RIDGE SECTION ONE LOCATION: TAX MAP 38 PARCELS 2001-849 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	TITLE PLANTING PLAN P-02-11 S-80-73 WP-01-54 P-01-10 WP-02-127 F-02-25 DATE JULY 17, 1991 JAN 11, 1994 PROJECT NO 393
DES D.A.M.	DRN DBT
SCALE AS SHOWN DRAWING 9 OF 9	

1688