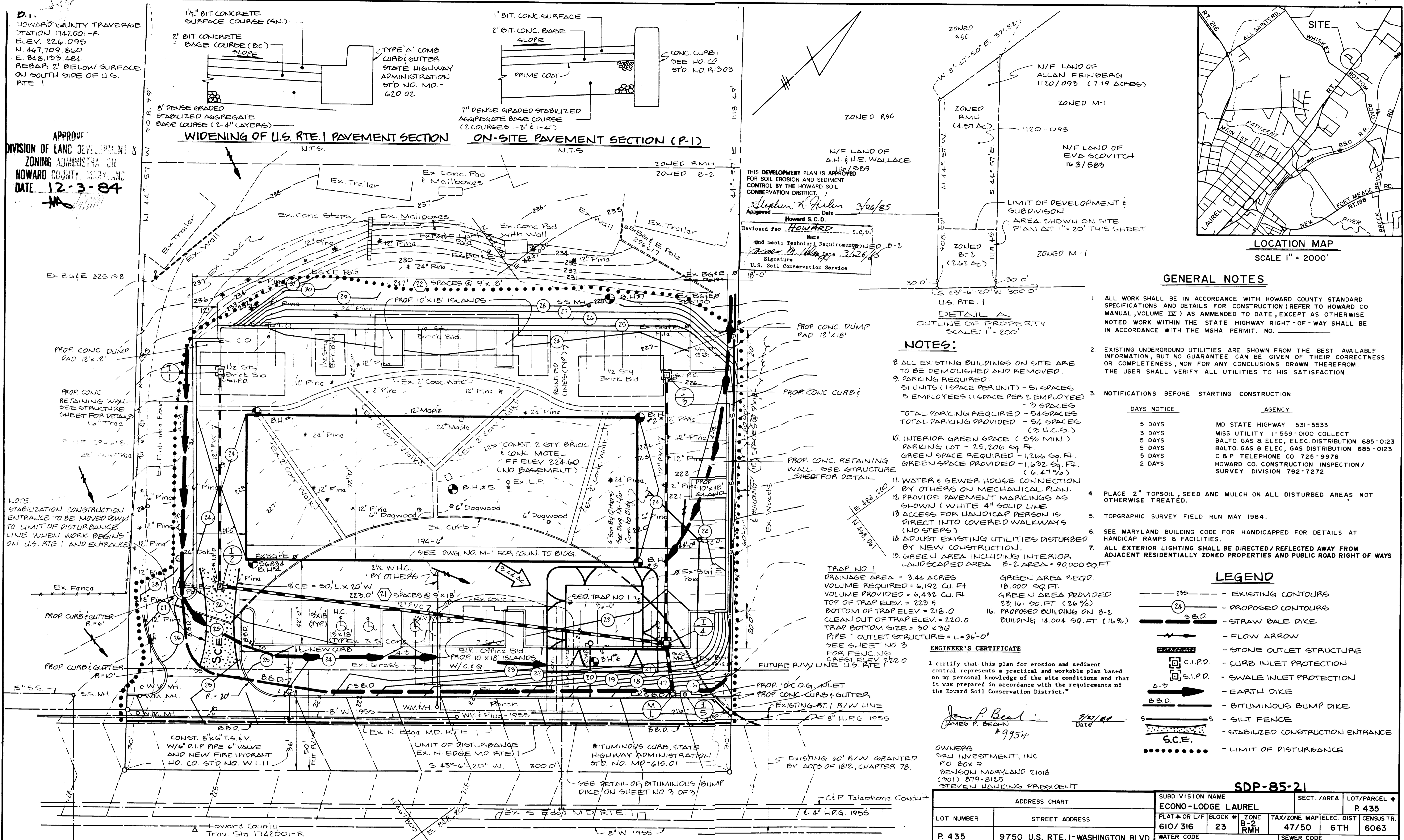


D.1.  
HOWARD COUNTY TRAVERSE  
STATION 1742001-R  
ELEV. 226.095  
N. 447.709.860  
E. 848.193.484  
REBAR 2" BELOW SURFACE  
ON SOUTH SIDE OF U.S.  
RTE. 1

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 12-3-84



NOTE:  
STABILIZATION CONSTRUCTION  
ENTRANCE TO BE MOVED DOWN  
TO LIMIT OF DISTURBANCE  
LINE WHEN WORK BEGINS  
ON U.S. RTE 1 AND ENTRANCE

THIS DEVELOPMENT PLAN IS APPROVED  
FOR SOIL EROSION AND SEDIMENT  
CONTROL BY THE HOWARD SOIL  
CONSERVATION DISTRICT.  
*Stephen A. Hahn* 3/26/85  
Approved Date  
Howard S.C.D.  
Name  
and meets Technical Requirements  
Reviewed for *Howard* S.C.D.  
Signature Date 3/26/85  
U.S. Soil Conservation Service

DETAIL A  
OUTLINE OF PROPERTY  
SCALE: 1" = 200'

NOTES:

- ALL EXISTING BUILDINGS ON SITE ARE TO BE DEMOLISHED AND REMOVED.
- PARKING REQUIRED:  
51 UNITS (1 SPACE PER UNIT) - 51 SPACES  
5 EMPLOYEES (1 SPACE PER 2 EMPLOYEE) - 3 SPACES  
TOTAL PARKING REQUIRED - 54 SPACES  
TOTAL PARKING PROVIDED - 54 SPACES (3 H.C.S.)
- INTERIOR GREEN SPACE (5% MIN.)  
PARKING LOT - 25,206 SQ. FT.  
GREEN SPACE REQUIRED - 1,260 SQ. FT.  
GREEN SPACE PROVIDED - 1,682 SQ. FT. (6.47%)
- WATER & SEWER HOUSE CONNECTION BY OTHERS ON MECHANICAL PLAN.
- PROVIDE PAVEMENT MARKINGS AS SHOWN (WHITE 4" SOLID LINE)
- ACCESS FOR HANDICAP PERSON IS DIRECT INTO COVERED WALKWAYS (NO STEPS)
- ADJUST EXISTING UTILITIES DISTURBED BY NEW CONSTRUCTION.
- GREEN AREA INCLUDING INTERIOR LANDSCAPED AREA 8-2 AREA = 90,000 SQ. FT.

- GENERAL NOTES
- ALL WORK SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (REFER TO HOWARD CO MANUAL, VOLUME IX) AS AMENDED TO DATE, EXCEPT AS OTHERWISE NOTED. WORK WITHIN THE STATE HIGHWAY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MSHA PERMIT. NO.
  - EXISTING UNDERGROUND UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION, BUT NO GUARANTEE CAN BE GIVEN OF THEIR CORRECTNESS OR COMPLETENESS, NOR FOR ANY CONCLUSIONS DRAWN THEREFROM. THE USER SHALL VERIFY ALL UTILITIES TO HIS SATISFACTION.
  - NOTIFICATIONS BEFORE STARTING CONSTRUCTION

DAYS NOTICE	AGENCY
5 DAYS	MD STATE HIGHWAY 531-5533
3 DAYS	MISS UTILITY 1-559-0100 COLLECT
5 DAYS	BALTO. GAS & ELEC. ELEC. DISTRIBUTION 685-0123
5 DAYS	BALTO. GAS & ELEC. GAS DISTRIBUTION 685-0123
5 DAYS	C & P TELEPHONE CO. 725-9976
2 DAYS	HOWARD CO. CONSTRUCTION INSPECTION / SURVEY DIVISION 792-7272

LEGEND

- - - - - EXISTING CONTOURS
- (24) - - - - - PROPOSED CONTOURS
- S.B.D. - - - - - STRAW BALE DIKE
- - - - - - FLOW ARROW
- - - - - - STONE OUTLET STRUCTURE
- - - - - - CURB INLET PROTECTION
- - - - - - SWALE INLET PROTECTION
- ▲ - - - - - EARTH DIKE
- B.B.D. - - - - - BITUMINOUS BUMP DIKE
- S - - - - - SILT FENCE
- S.C.E. - - - - - STABILIZED CONSTRUCTION ENTRANCE
- - - - - - LIMIT OF DISTURBANCE

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 Soil Conservation District.

*James P. Beaulieu*  
JAMES P. BEAULIEU  
#9954  
Date 3/27/84

OWNERS  
SRW INVESTMENT, INC.  
P.O. BOX 9  
BENSON MARYLAND 21018  
(301) 879-8125  
STEVEN HANKINS PRESIDENT

ADDRESS CHART		SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #
LOT NUMBER	STREET ADDRESS	ECONO-LODGE LAUREL			P. 435
P. 435	9750 U.S. RTE. 1 - WASHINGTON BLVD.	PLAT # OR L/F	BLOCK #	TAX/ZONE MAP	ELEC. DIST
		610/316	23	B-2 RMH 47/50	6TH 6063
		WATER CODE		SEWER CODE	

Drawn By:	DATE:	REVISIONS
WJ	11-21-84	GENERAL
Designed By:		
Checked By:		

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR *John J. ...*  
DATE 4-29-85

APPROVED: For public Water and Public Sewerage Systems  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER *James Hahn*  
DATE 4-29-85

APPROVED: Howard County Office of Planning and Zoning  
PLANNING DIRECTOR *John ...*  
DATE 4-30-85

CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN.

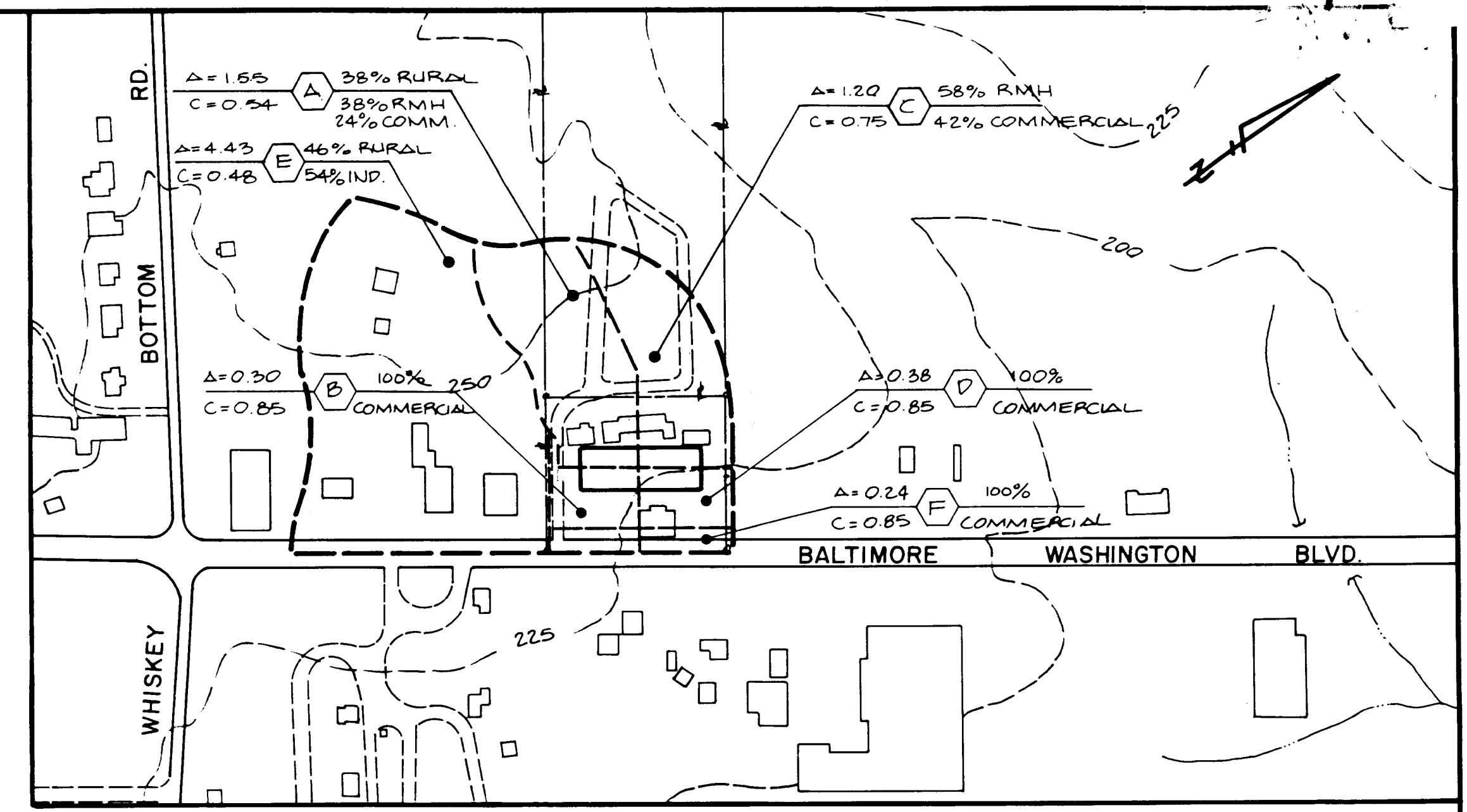
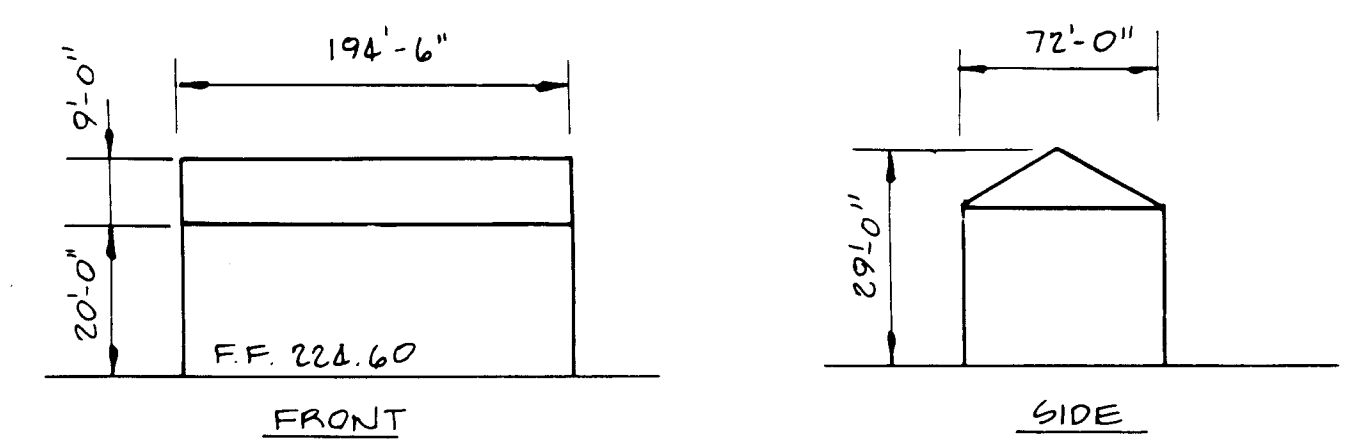
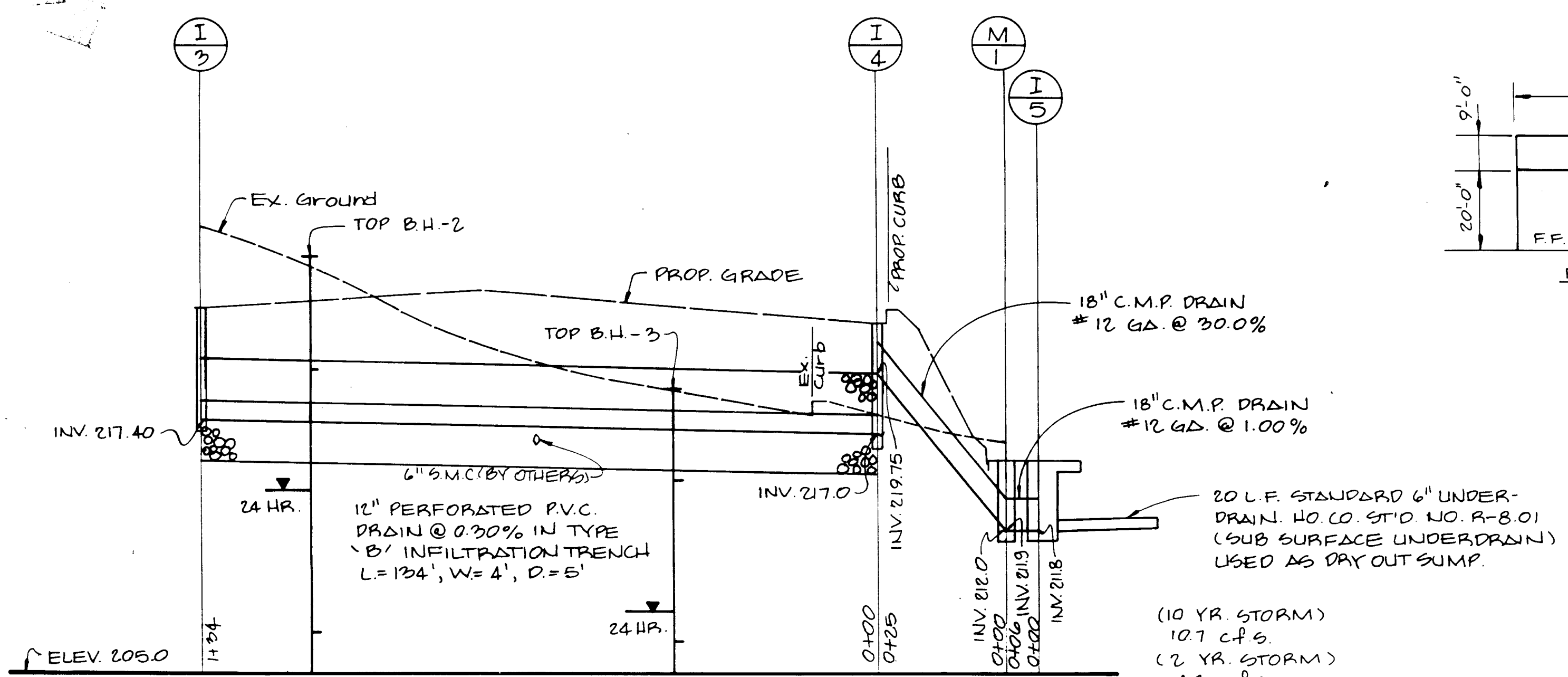
kennedy, porter & associates  
consulting engineers  
baltimore, maryland  
2319 MARYLAND AVE.  
BALTIMORE, MARYLAND. 21218  
K.P.A. PROJECT NO. 84-069 467-1645 #9954 9-27-84

SCALE: 1" = 20'

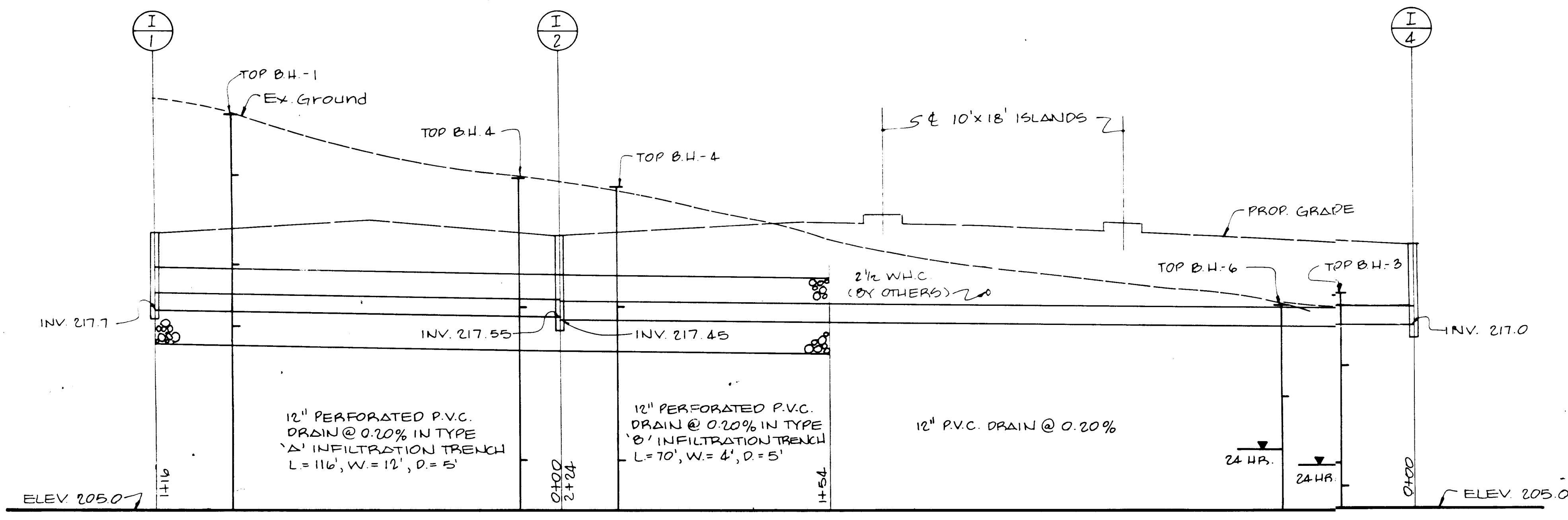
SEDIMENT CONTROL AND SITE PLAN  
ECONO-LODGE LAUREL  
9750 BALTIMORE WASHINGTON BOULEVARD  
LAUREL, MD. 20810  
HOWARD COUNTY

TAX MAP NO. 47 PARCEL NO. 435 6TH ELECTION DISTRICT

DATE: 9-27-84  
SHEET NO. SP-1  
1 OF 3



**DRAINAGE AREA MAP**  
SCALE: 1"=200'



**STORM DRAINAGE PROFILES**  
SCALE: 1"=20' HOR., 1"=5' VERT.

STRUCTURE SCHEDULE							
NO.	TYPE	INVERT IN	INVERT OUT	TOP ELEVATION UPPER	TOP ELEVATION LOWER	REMARKS	LOCATION
I-1	6" INLET W/RET.GRADE	217.70	217.70	223.20	223.20	STD. S.D.-4.22 E.S.D.-4.93 *	ON SITE
I-2	6" INLET W/RET.GRADE	215.65	215.45	223.05	223.05	STD. S.D.-4.22 E.S.D.-4.93 *	ON SITE
I-3	6" INLET W/RET.GRADE	217.40	217.40	223.10	223.10	STD. S.D.-4.22 E.S.D.-4.93 *	ON SITE
I-4	4"-6" INLET	217.00	219.75	222.20	222.20	STD. S.D.-4.01 *	ON SITE
M-1	STD. SHALLOW MH	217.00	211.90	215.7	215.70	MSHA STD. MD. 383.00	IN M.S.H.A. RIGHT OF WAY
I-5	STD. 10" COG. INLET	211.80	-	215.6	215.50	MSHA STD. MD. 374.31	IN M.S.H.A. RIGHT OF WAY

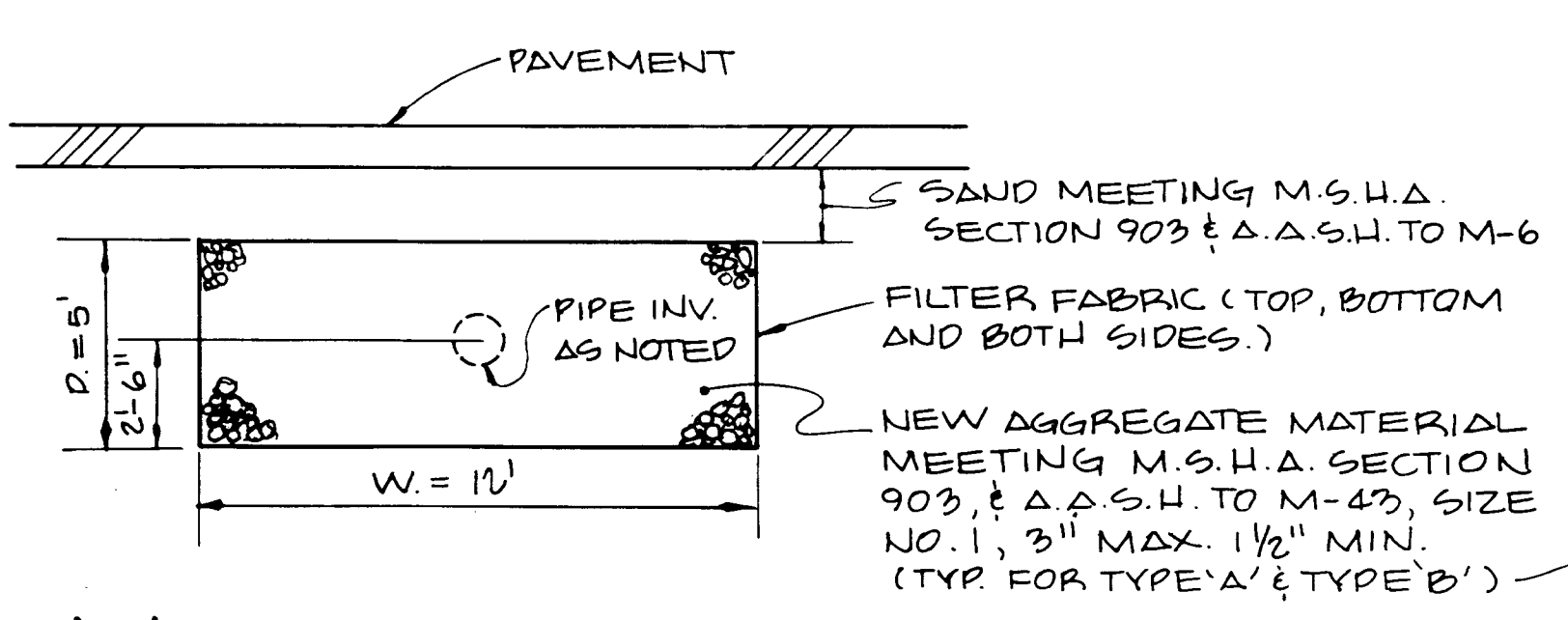
\* HOWARD COUNTY STANDARD DETAILS

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
12"	PERFORATED PVC	320'
12"	P.V.C.	164'
18"	C.M.P. #12 GA.	31'

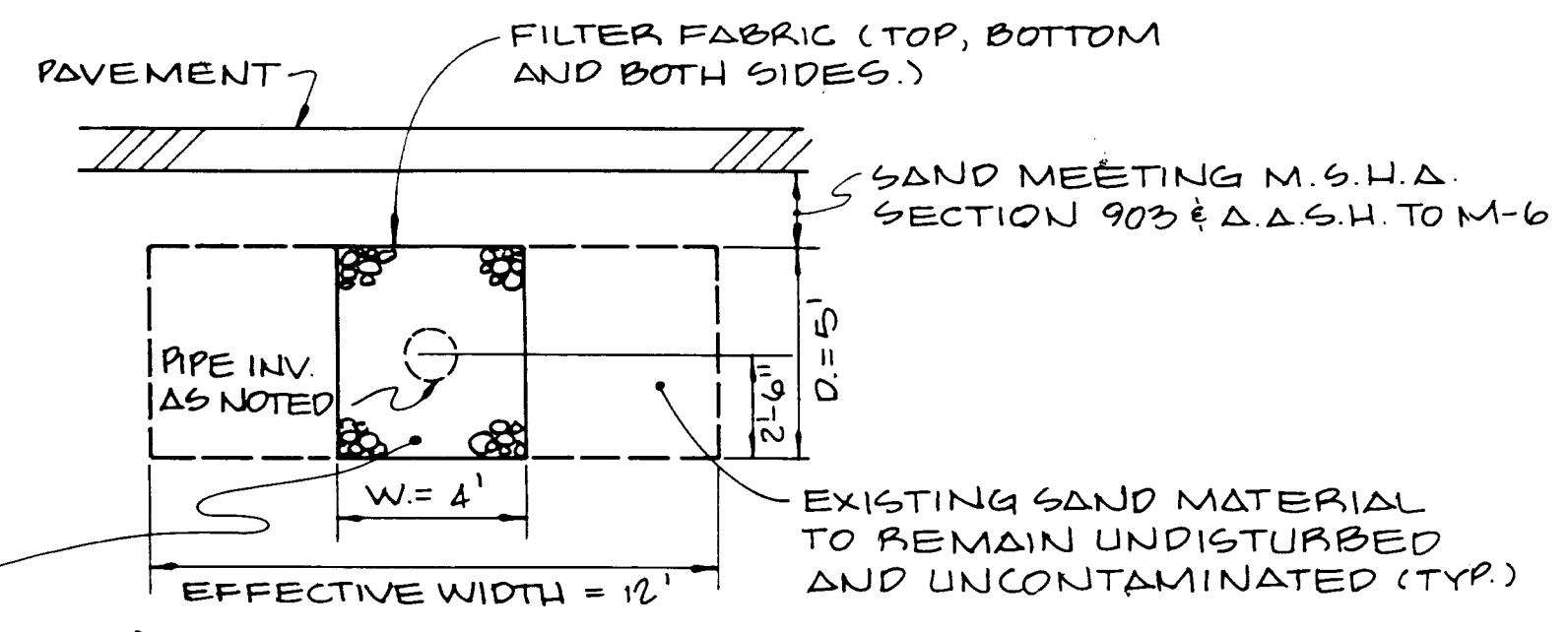
**INFILTRATION PIPE TRENCH CONSTRUCTION SPECIFICATIONS**

- Timing**  
An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.
- Trench Preparation**  
Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.
- Fabric Laydown**  
The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch max. top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.
- Stone Aggregate Placement and Compaction**  
The stone aggregate should be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures a fabric conformity to the excavation sides, thereby reducing the potential for soil piping, fabric clogging, and settlement problems. Drainage pipe shall be placed in the trench at the plan elevation.
- Overlapping and Covering**  
Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.
- Contamination**  
Care shall be exercised to prevent natural or fill soils from intermingling with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.
- voids Behind Fabric**  
voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.
- Unstable Excavation Sides**  
Vertically excavated walls may be difficult to maintain in areas where the soil moisture is high or where soft cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoidal rather than rectangular cross sections may result.
- Buffer**  
A vegetative buffer of at least 20 feet (wider, if possible) shall be used to intercept surface runoff from all impervious areas. Where no buffer exists, use a temporary straw bale dike.
- Traffic Control**  
Heavy equipment and traffic shall be restricted from travelling over the infiltration areas to minimize compaction of the soil.
- Maintenance**  
Infiltration trenches are designed to minimize maintenance, but the performance and longevity of these structures is not well documented. Consequently, monitoring is required for the infiltration inlet structures.  
The inlets shall be monitored periodically. For the first year after completion of construction, the inlets should be monitored on a quarterly basis and after every large storm. It is recommended that a log book be maintained indicating the rate at which the facility dewaters after large storms and the depth of water in the inlet for each observation. Once the performance characteristics of the structure have been verified, the monitoring schedule can be reduced to an annual basis, unless the performance data indicate that a more frequent schedule is required.  
Sediment build-up in the surface inlet should be monitored on the same schedule as the observation roll. Sediment deposited shall not be allowed to build up to the point where it will reduce the rate of infiltration into the trench.

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 12-3-84



**TYPE 'A' SECTION INFILTRATION TRENCH**  
N.T.S.



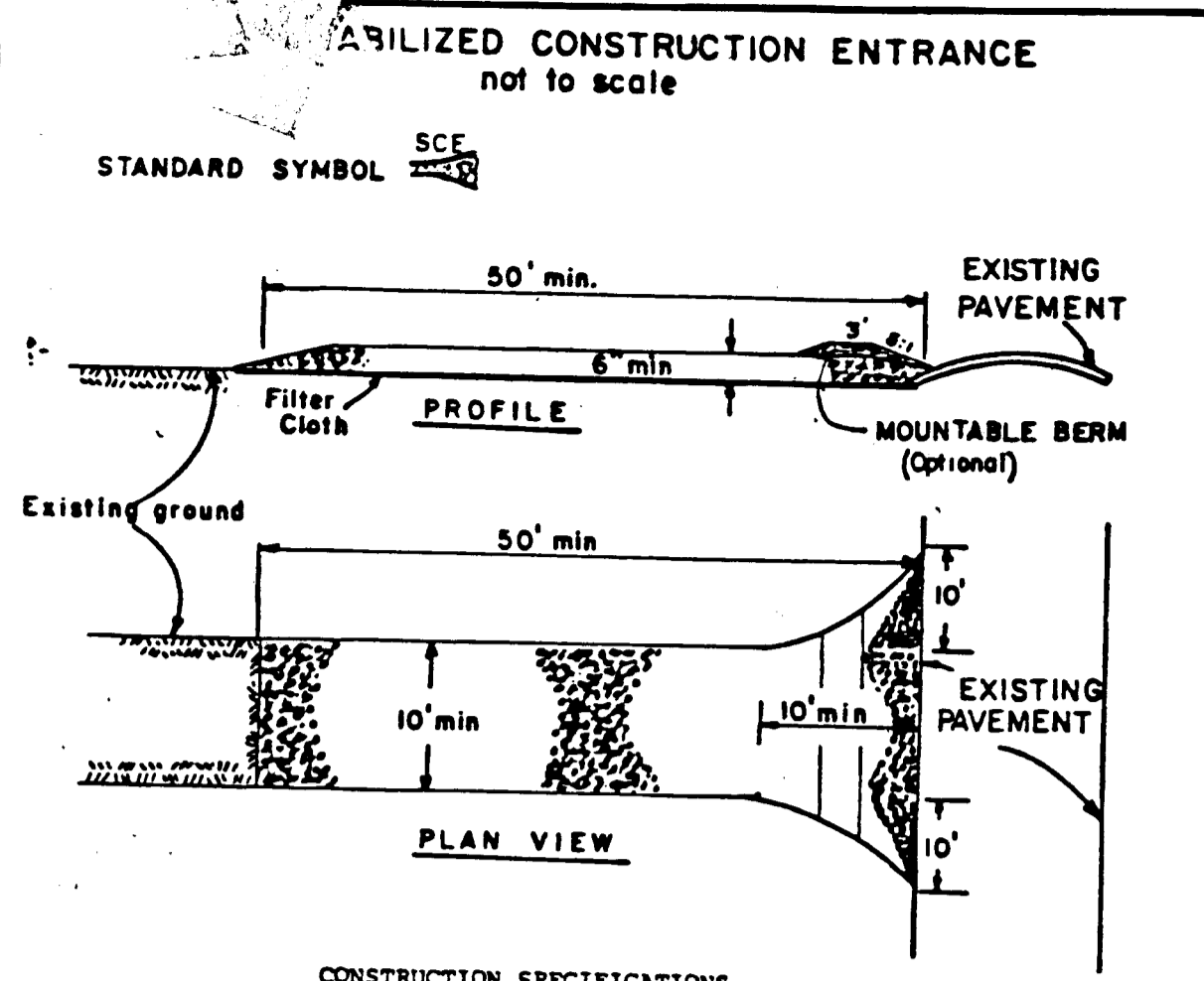
**TYPE 'B' SECTION INFILTRATION TRENCH**  
N.T.S.

OWNERS  
SRH INVESTMENT, INC.  
P.O. BOX 9  
BENSON, MARYLAND 21018  
(301) 879-8125  
STEVEN HANKINS, PRESIDENT

**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 Board of Soil Conservation Districts.  
*James P. Beal*  
JAMES P. BEAL 9254  
9/27/84 Date

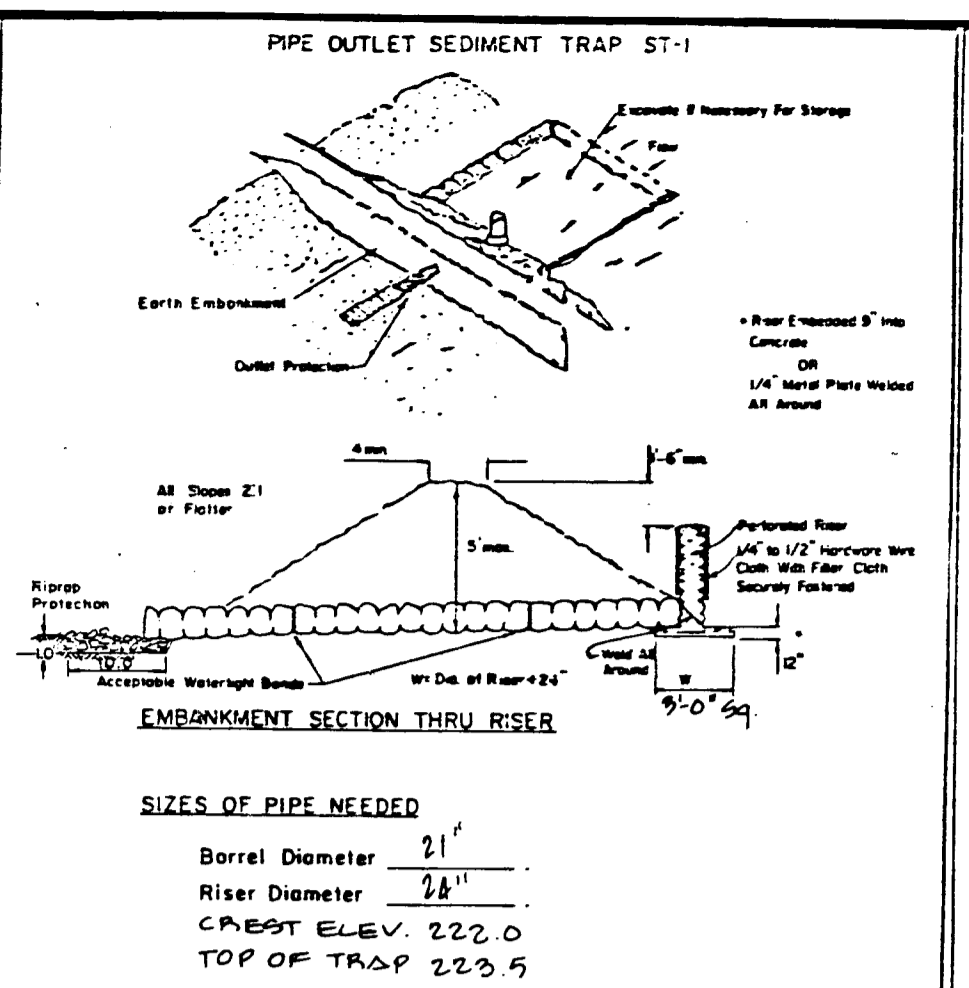
SDP-85-21

Drawn By: <i>JW</i>	DATE: 11-21-84	REVISIONS: GENERAL	APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR <i>[Signature]</i> 4-19-85 CHIEF, BUREAU OF ENGINEERING <i>[Signature]</i> 4-23-85	APPROVED: For public Water and Public Sewerage Systems HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF OF HEALTH OFFICE <i>[Signature]</i> 4-22-85	kennedy, porter & associates consulting engineers baltimore, maryland 2319 MARYLAND AVE. BALTIMORE, MARYLAND 21218 K.P.A. PROJECT NO. 84-069 467-1645 79954 9-27-84	SCALE: AS NOTED	DRAINAGE & MISCELLANEOUS DETAILS ECONO-LODGE LAUREL 9750 BALTIMORE WASHINGTON BOULEVARD LAUREL, MD 20810 HOWARD COUNTY TAX MAP NO. 47 PARCEL NO. 435 6TH DISTRICT	DATE: 9-27-84 SHEET NO. SP-2 2 OF 3
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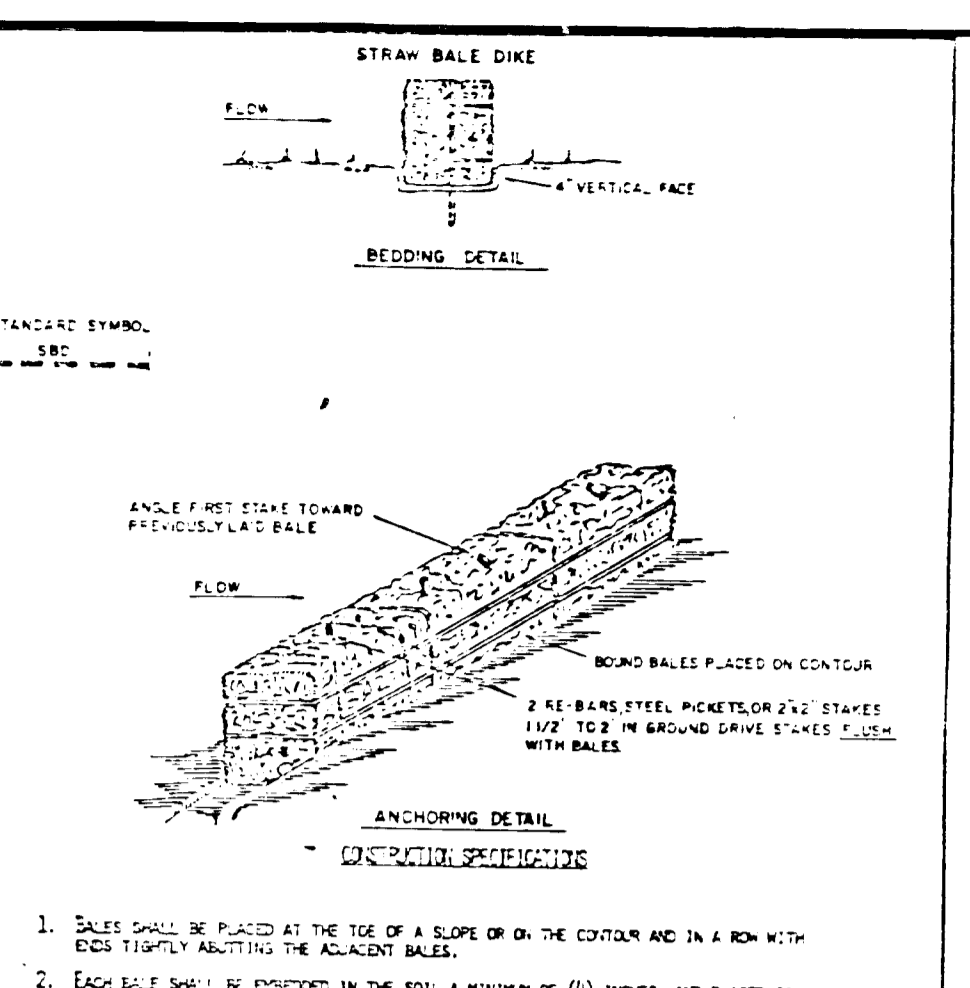
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
College Park, Md.



- SIZES OF PIPE NEEDED**
- Borel Diameter 21"  
Riser Diameter 28"  
C.P. ELEV. 222.0  
TOP OF TRAP 222.9
- Note:  
For Construction Specification see sheet 16.08
- Max. Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



- Bales shall be placed on the top of a slope or on the contour and in a row with each bally abutting the adjacent bally.
- Each bally shall be positioned in the soil a minimum of (4) inches and placed so the bally are horizontal.
- Bales shall be secured in place by either the stakes or rebar driven through the bally. The first stake in each pile shall be driven through the bally and the second stake shall be driven flush with the bally.
- Inspection shall be required and repair replacement shall be made promptly as needed.
- Bales shall be inspected when they have soaked their usefulness so as not to block or impede storm flow of drainage.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

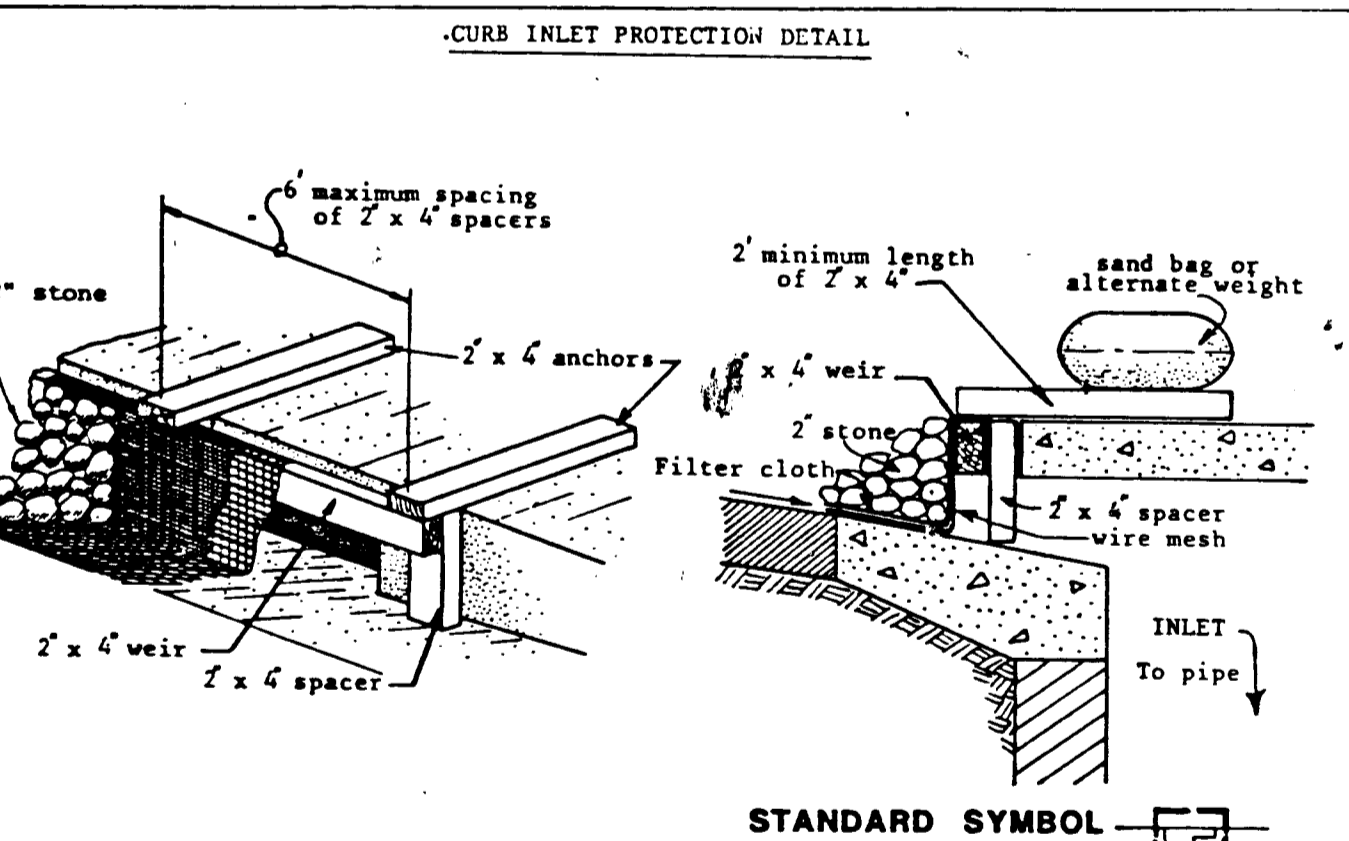
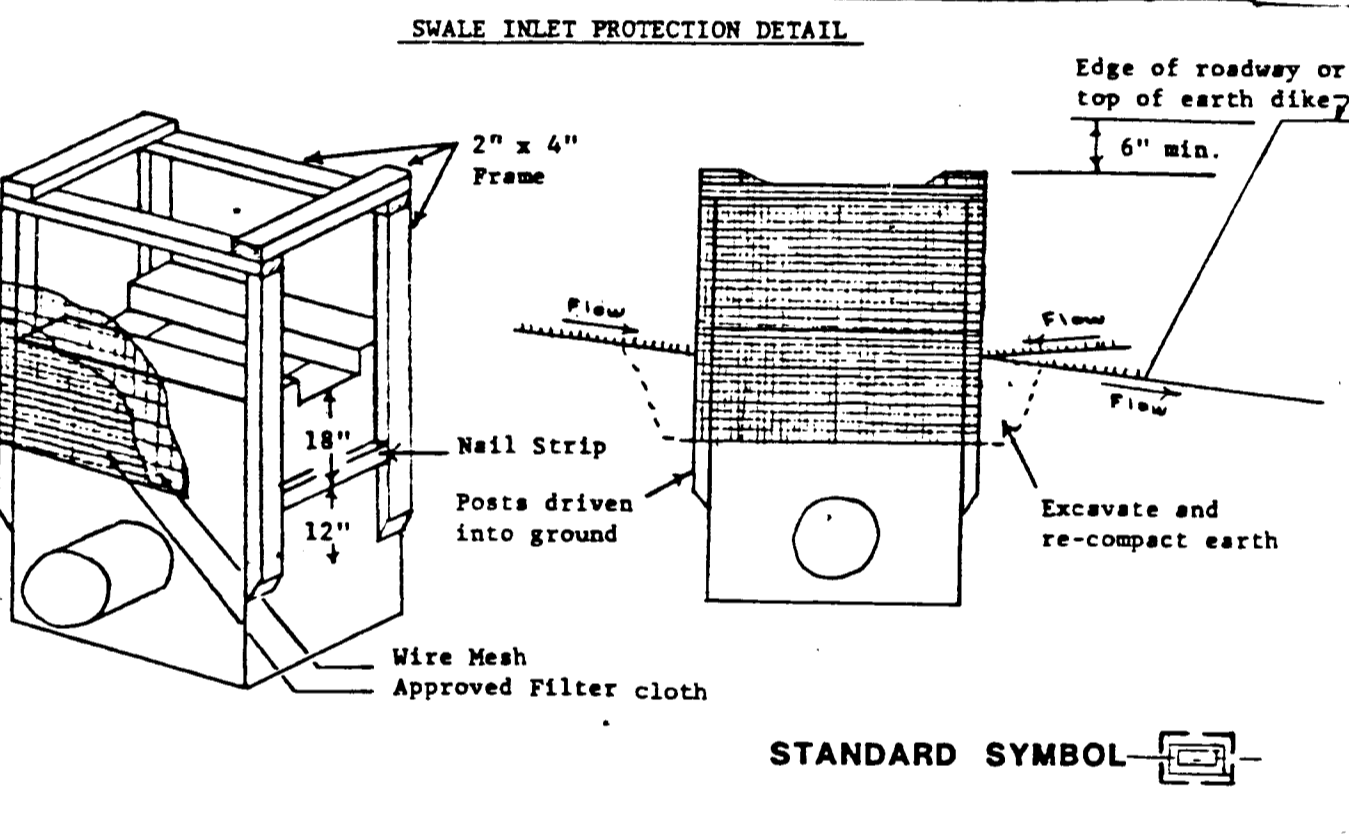
Reviewed for General S.C.D.  
Name  
and meets Technical Requirements.  
James M. Harkins 3/26/85  
U.S. Soil Conservation Service Date

THIS DEVELOPMENT PLAN IS APPROVED  
FOR SOIL EROSION AND SEDIMENT  
CONTROL BY THE HOWARD SOIL  
CONSERVATION DISTRICT  
Stephen L. Fisher 2/24/85  
Howard S.C.D. Date

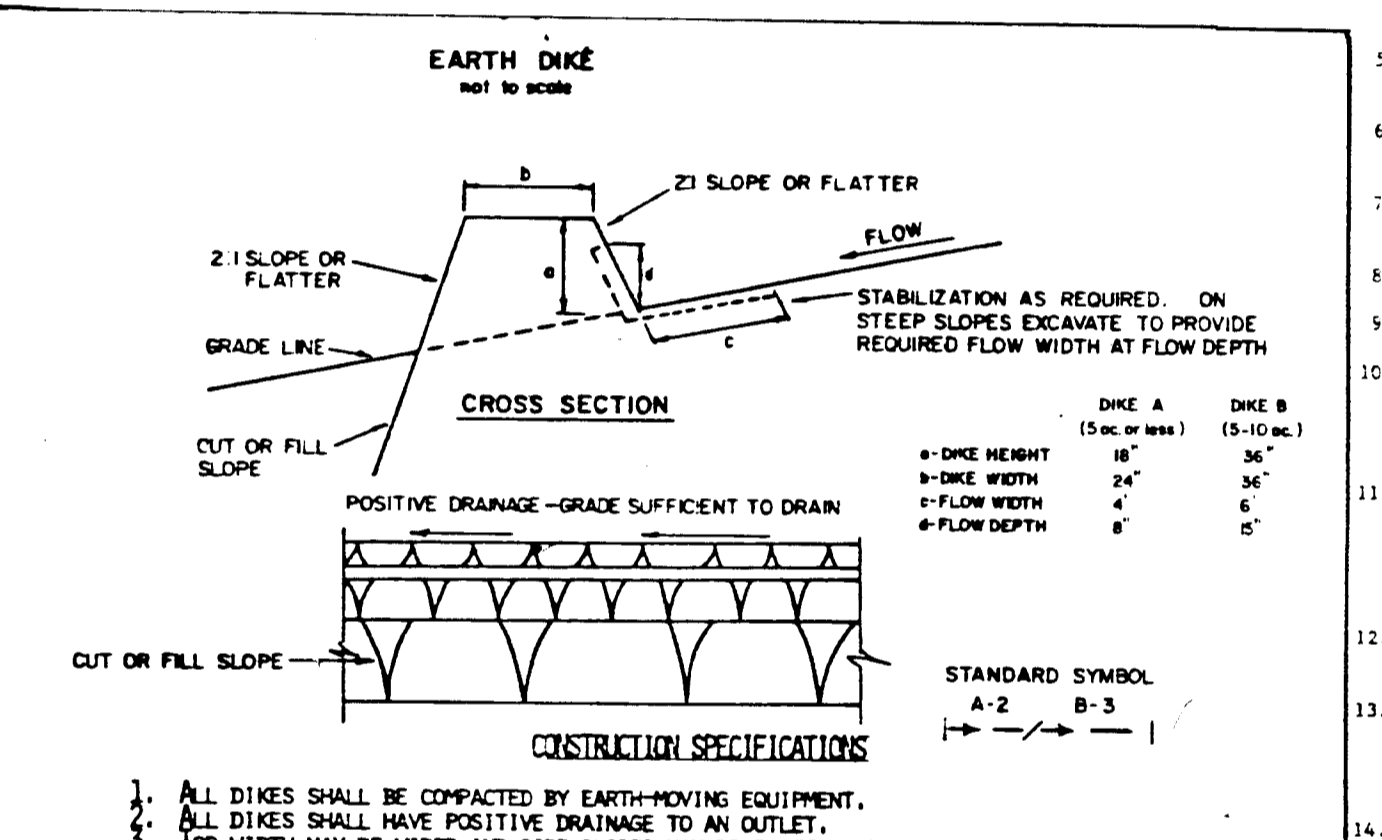
- SEDIMENT AND EROSION CONTROL GENERAL NOTES**
- All work must comply with "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control" distributed by the Howard County Soil Conservation District.
  - The Contractor must filter run-off, and control sediment all within the site, and as noted. Control of Sediment will require the use of "located" type sediment control devices shown on the plan (e.g. Stabilized Construction Entrances, Stone Outlets, Sediment Traps, etc.) as well as "unlocated" type devices (e.g. Temporary Seeding Areas, Temporary Stockpile Sediment Control, Borrow Pit Sediment Control, etc.) which may not be specifically located on the Plan. All controls must be provided as required to filter sediment and control erosion. No disturbed areas are allowed to drain directly off-site.
  - Tentative Plan and Schedule shown below have been prepared. Contractor has an option to submit this plan, or his own plan and/or schedule for use as Final Approved Plan.
  - The developer is responsible for the acquisition of any easement, rights-of-way, etc. required for any construction operation.
  - Inspection by Howard County Department of Public Works, Construction Inspection/Survey Division (HCCI/SD). The contractor or developer shall contact HCCI/SD at least 24 hours in advance of commencement of work. (301) 982-2272.
  - Before starting work give HCCI/SD Inspector a copy of Final Approved Plan and Schedule.
  - Location adjustments shall be made as field conditions require. Provide temporary seeding and mulching immediately upon installation for all grading type sediment control measures (dikes, trap, etc.).
  - The Contractor is responsible for assuring that all sediment control devices are functional on a day to day basis.
  - As work progresses cut and fill slopes shall be harrowed, or tracked with a cleared bulldozer to create serrations, to minimize erosion.
  - Temporary stockpiles must be surrounded by straw bales, except if stockpile is over 500 c.y. get separate plan approval from HCCI/SD.
  - Get written approval from HCCI/SD of waste and borrow areas. Either use areas having current valid sediment control approvals, or submit separate sediment control plan and get approvals as required. Get approvals from HCCI/SD. Give copy of approval to HCCI/SD Inspector.
  - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
    - 7 calendar days on the surface of all perimeter controls, Dikes, Swales, Ditches, Perimeter slopes and all slopes greater than 3:1
    - 14 days on all other disturbed or graded areas on the project site, then followed by permanent seeding and mulching. At Contractor's option, mulch stabilization may be omitted, if topsoil and permanent seeding and mulching is substituted, or temporary seeding and mulching followed by later permanent seeding is substituted.
  - Complete final surfaces (pavements, lawns, turf, etc.). Get HCCI/SD Inspector's approval of grass growth. After approval of Inspector, remove temporary Sediment Control measures.
    - Place topsoil, disc, rake and fine grade.
    - place lime, fertilizer and MSHA Seed Mix No. 1 at 110 to 130 lbs. per acre.
    - Place mulch at 2 tons per acre and secure with asphaltic tack or 2 1/2 tons per acre and secure with mulch anchoring tool.
    - place mulch at 2 tons per acre and secure with peg and string or asphalt tack, or 2 1/2 tons per acre and secure with mulch anchoring tool.
    - Replace with topsoil, permanent seed and mulch, (14 above).
  - Mulch Stabilization: Place at any time.
    - Place mulch at 2 tons per acre, secure by peg string or by asphalt tack or at 2 1/2 tons per acre and secure with mulch anchor tool.
    - Replace with topsoil, permanent seed and mulch (14 above).
  - Tentative Schedule:
    - 3 days
    - Obtain permits, meet HCCI/SD Inspector on site, give HCCI/SD Inspector Final Approved Plan and Schedule.

- 2 weeks
- 1 Week
- 2 Weeks
- 3 Weeks
- 1 Month
- 2 Weeks
- 4 Weeks
- 2 Weeks
- 2 Weeks
- 2 Weeks
- 2 Weeks
- 2 Days
- 3 Weeks
- 1 Week
- 5 Months

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 12-3-84



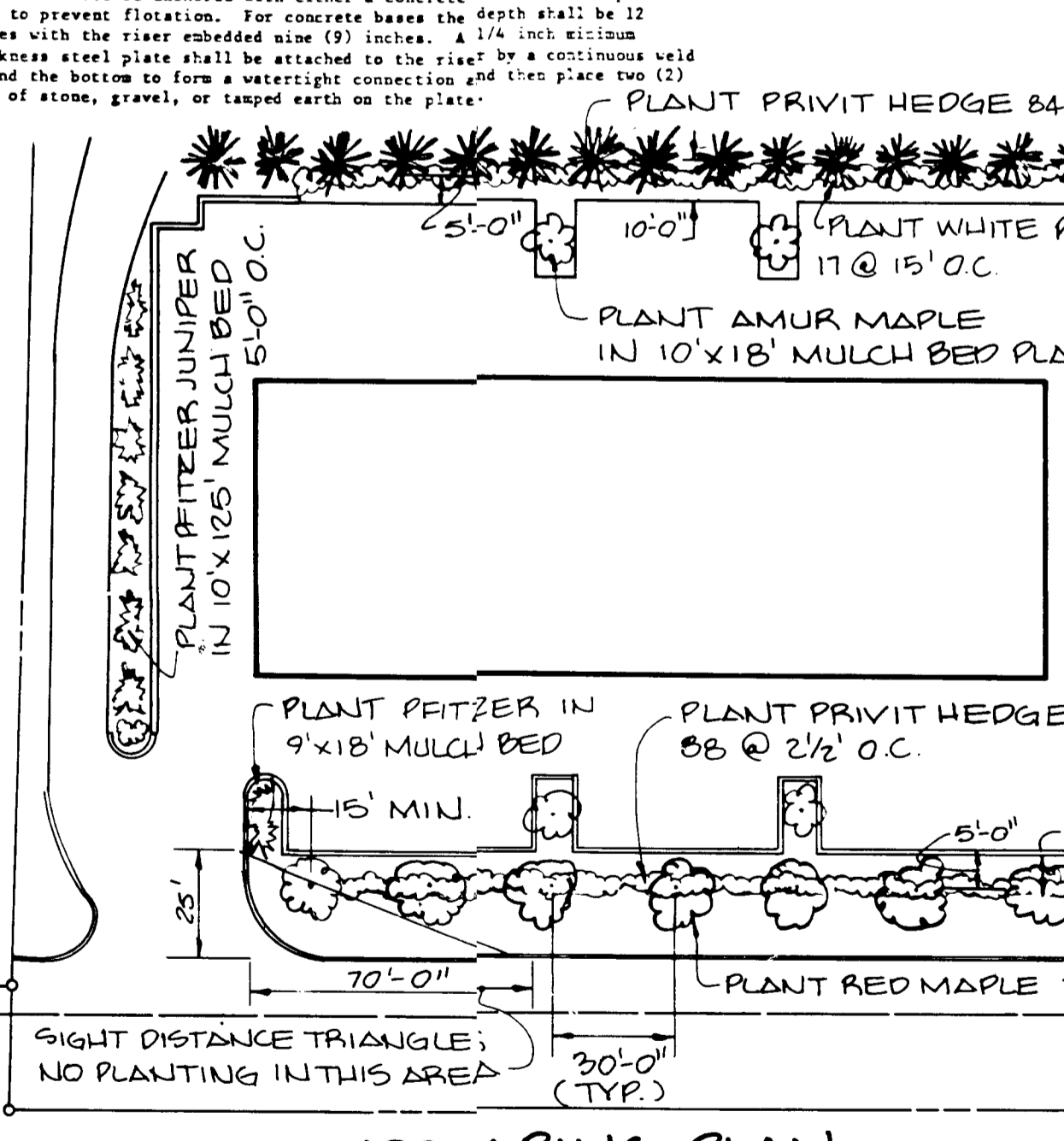
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL WIDTH | DIKE A                           | DIKE B                                       |
|-------------------|---------------|----------------------------------|--|
| 1                 | 5-3.00        | SEED AND STRAW MULCH             | SEED AND STRAW MULCH                         |
| 2                 | 3.1-5.00      | SEED AND STRAW MULCH             | SEED USING JUTE, OR EXCELSTOR; SOO; 2" STONE |
| 3                 | 5.1-8.00      | SEED WITH JUTE, OR SOO; 2" STONE | LINED RIP-RAP 4-8"                           |
| 4                 | 8.1-200       | LINED RIP-RAP 4-8"               | ENGINEERING DESIGN                           |
- A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.  
B. RIP-RAP to be 4-8 inches in a layer at least 8 inches thickness and pressed INTO THE SOIL.  
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

- Area under embankment shall be cleared, grubbed and approved of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots of other woody vegetation as well as oversized sticks, rocks, logs, stumps, or other objectionable materials. The embankment shall be compacted by traveling with equipment while it is being constructed.
- Volume of sediment storage shall be 1800 cubic feet per acre of central story drainage.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Excess sediment shall be deposited to a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- All pipe connections shall be watertight.
- The top 2/3 of the riser shall be perforated with one (1) inch diameter holes or slots spaced six (6) inches vertically and horizontally and placed in the concave portion of pipe. No holes will be allowed within six (6) inches of the horizontal barrel.
- The riser shall be wrapped with 1/4 to 1/2 inch hardware cloth wire then wrapped with filter cloth having an equivalent size of 40-80. The filter cloth shall extend six (6) inches above the highest hole and six (6) inches below the lowest hole, where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent bypass.
- Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
- Fill material around the pipe spillway shall be hand compacted in four (4) inch layers. A minimum of two (2) feet of hand-compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.
- The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. For concrete bases the depth shall be 12 inches with the riser embedded nine (9) inches. A 1/4 inch minimum thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and rise plate two (2) feet of stone, gravel, or tamped earth on the plate.



LANDSCAPING PLAN  
SCALE = 1" = 40'

Kennedy, porter & associates  
consulting engineers  
baltimore, maryland  
2319 MARYLAND AVE.  
BALTIMORE, MARYLAND 21218  
K.P.A. PROJECT NO. 84-069 467-1645

- LEGEND**
- RED MAPLE
  - AMUR MAPLE
  - CALIF. PRIVET HEDGE
  - PFITZER JUNIPER
  - WHITE PINE

**PLANT SCHEDULE**

NO	COMMON NAME	PLANTING NAME	CAL.	HIGHT
8	RED MAPLE	ACER RUBUM	2-2 1/2	8'-0"
5	AMUR MAPLE	ACER GINNALA	1 1/2-2	6'-0"
17	CALIF PRIVET HEDGE	PRIVET LIGUSTRUM	18"-24"	2'-4"
9	PFITZER JUNIPER	PFITZER JUNIPER	2-2 1/2	12"-14"
17	WHITE PINE	PINUS STROBUS	-	7'-0"

**SITE ANALYSIS:** TOTAL AREA OF SITE 7.19 AC.  
AREA DISTURBED 1.43 AC.  
AREA TO BE ROOFED OR PAVED 0.90 AC.  
AREA TO BE VEGETATIVELY STABILIZED 0.53 AC.  
CUT 3320 YDS.  
FILL 1,798 YDS.

**Developers Certification**

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction 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."

James M. Harkins Date 7-27-84  
Steven Harkins, President  
SHI Investment, Inc.  
P. O. Box 9  
Reesons, MD 21018  
(301) 879-8125

**Engineers Certification**

I certify that this plan has been prepared in accordance with the "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control", and the Howard County Storm Water Management Ordinance, Bill 28-84, as amended.

James P. Beal Date 9/27/84  
Professional Engineer No. #9954

**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 Soil Conservation District."

James P. Beal Date 9/27/84  
JAMES P. BEAL #9954

**FENCE NOTE FOR TRAP:**  
SEDIMENT TRAP SHOWN ON SHEET NO. 1 MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. NO. 1 CHAPTER NO. 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

Drawn By:	DATE:	REVISIONS
JW	11-21-84	GENERAL
Designed By:		
Checked By:		

APPROVED For public Water, Public Sewerage and Storm Drainage Systems and Roads  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR John A. Harkins 4-28-85 DATE  
CHIEF, BUREAU OF ENGINEERING John A. Harkins 4-28-85 DATE

APPROVED For public Water and Public Sewerage Systems  
HOWARD COUNTY HEALTH DEPARTMENT  
James P. Beal 4-28-85 DATE  
COUNTY HEALTH OFFICER

APPROVED: Howard County Office of Planning and Zoning  
Thomas K. Harris 4-30-85 DATE  
PLANNING DIRECTOR  
Thomas K. Harris 4-30-85 DATE  
CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN.

SCALE: LANDSCAPING PLAN & SEDIMENT CONTROL DETAILS  
ECONO-LODGE LAUREL  
9750 BALTIMORE WASHINGTON BOULEVARD  
LAUREL, MD 20810  
HOWARD COUNTY  
TAX MAP NO. 47 PARCEL NO. 435 6TH DISTRICT

DATE: 9-27-84  
SHEET NO. SP-3  
3 OF 3