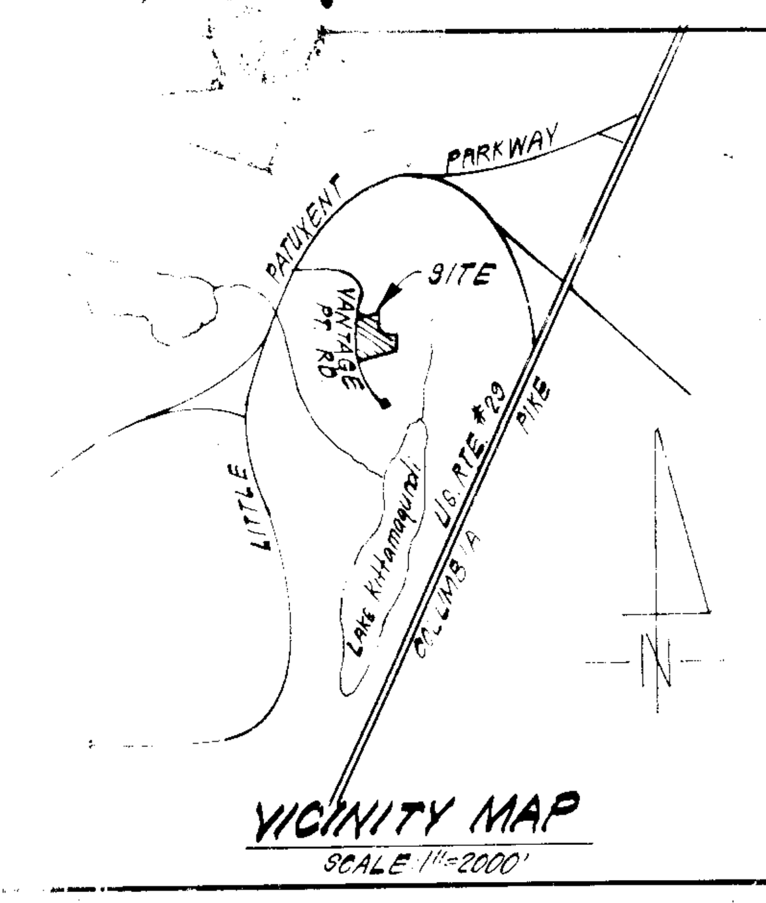
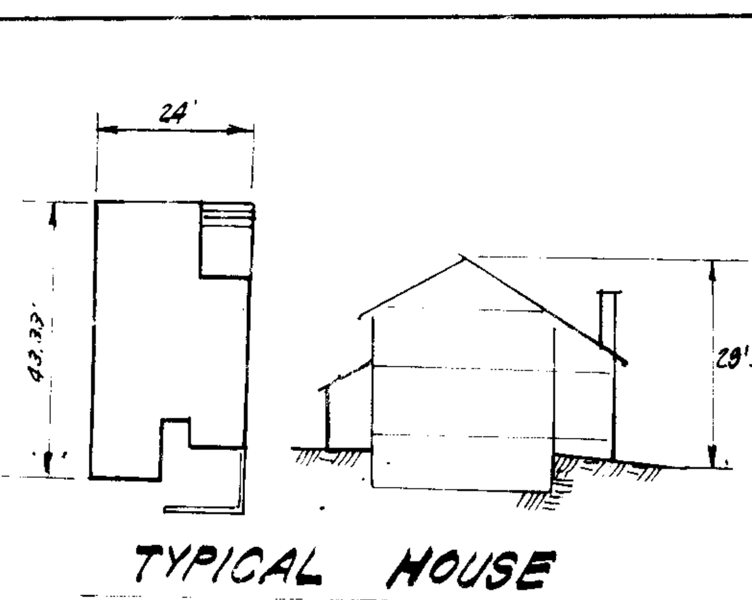
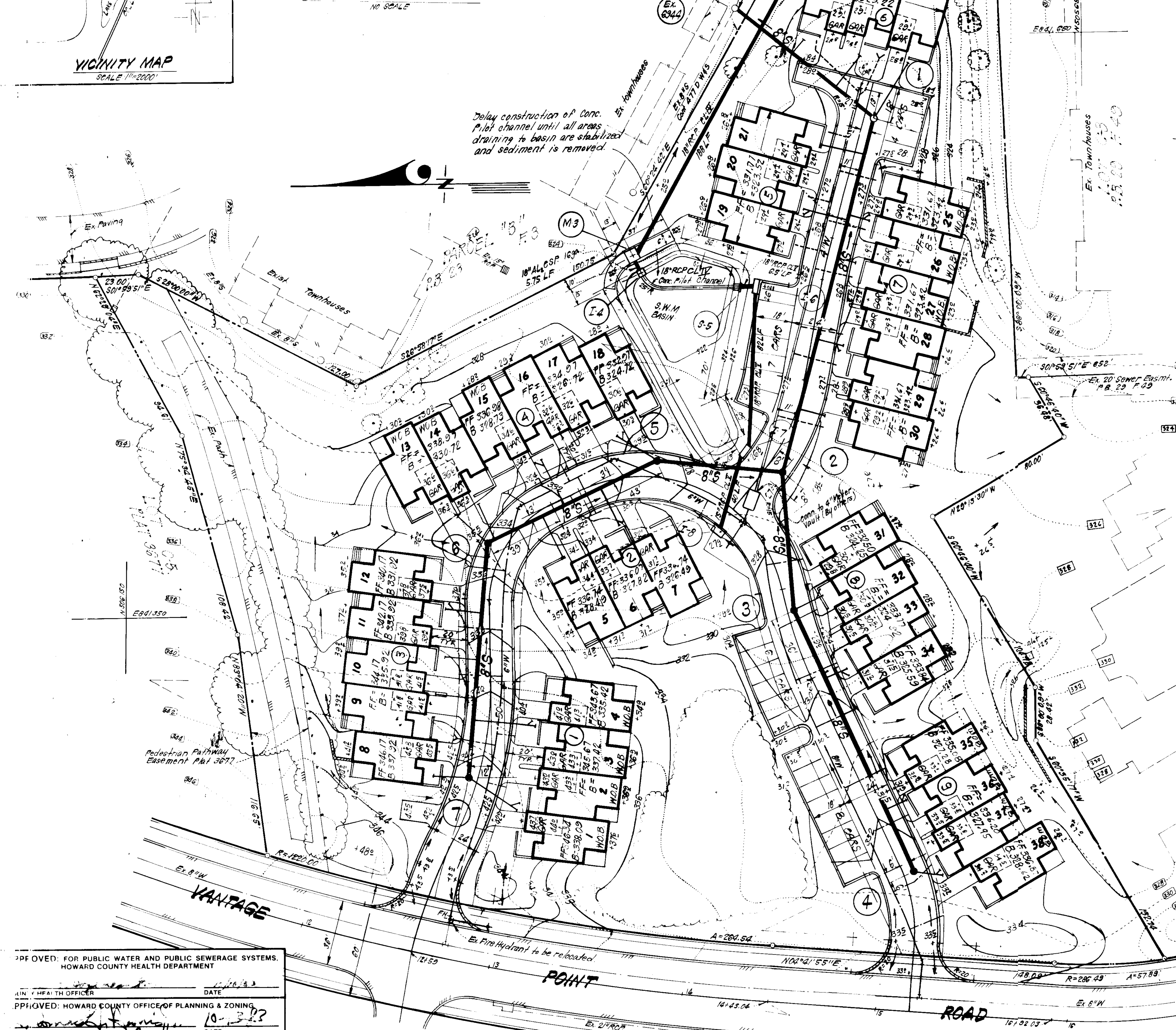
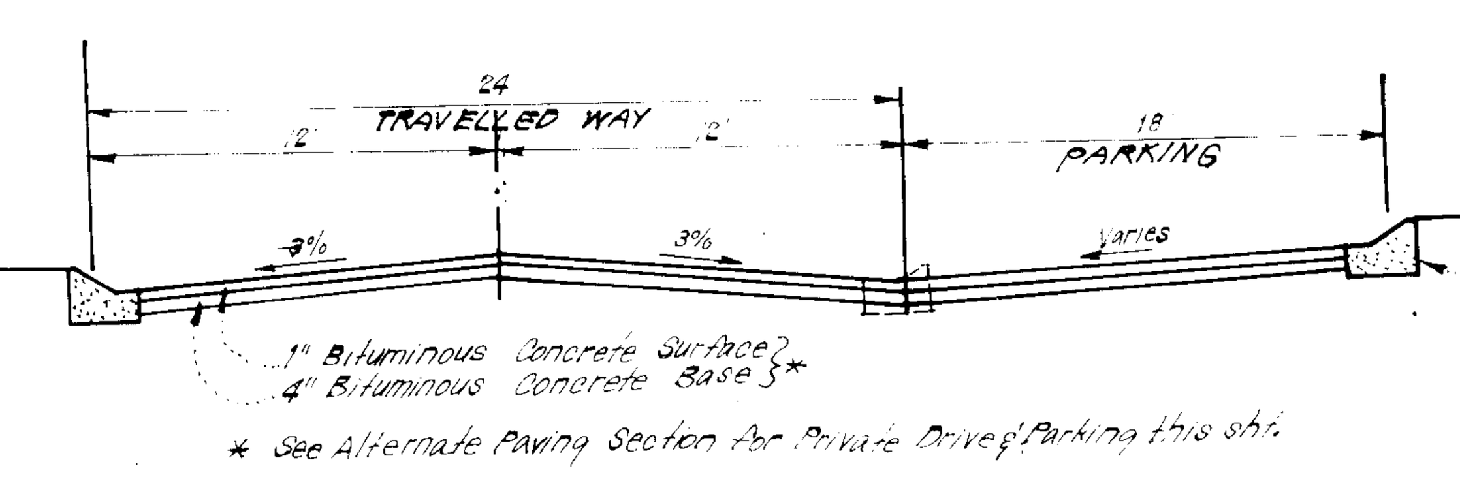


VICINITY MAP
SCALE 1"=2000'

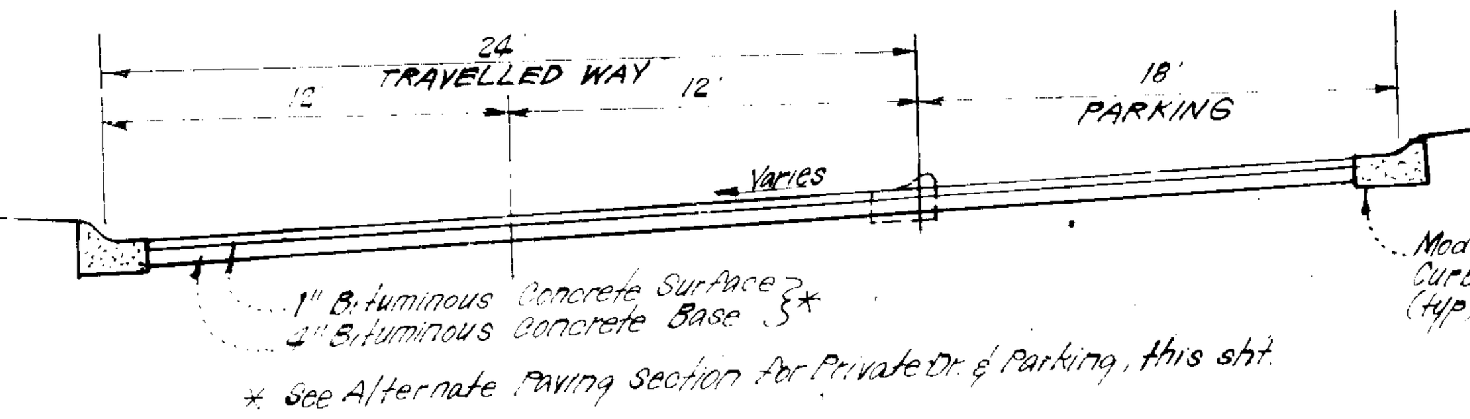


TYPICAL HOUSE
NO SCALE





TYPICAL SECTION - CROWNED PRIVATE DRIVE & PARKING
NO SCALE



TYPICAL SECTION - PRIVATE DRIVE & PARKING
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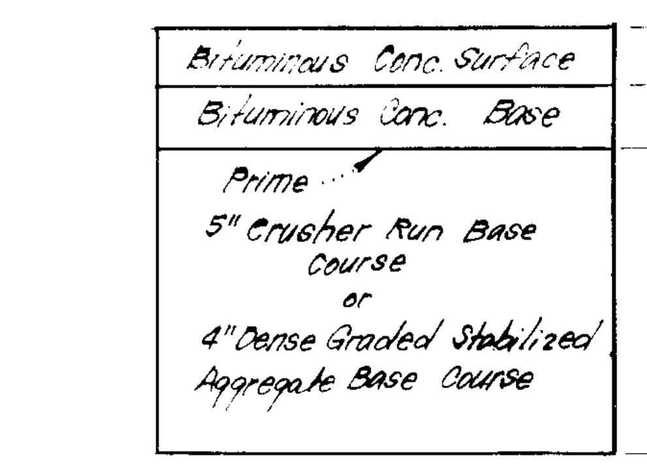
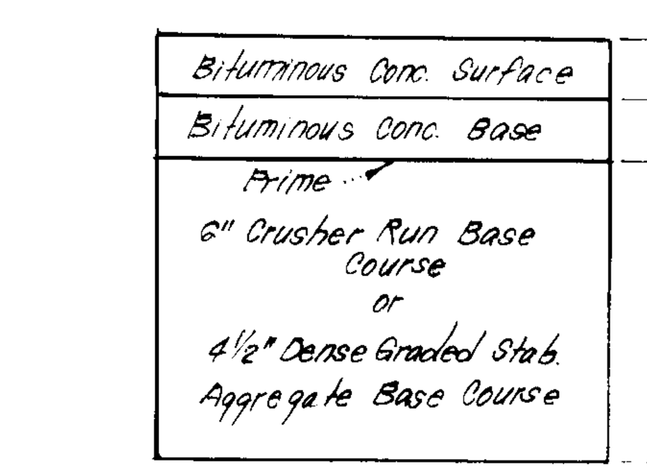


ALTERNATE PAVING SECTION PRIVATE DRIVE & PARKING
NO SCALE



ALTERNATE PAVING SECTION FOR ENTRANCES TO PUBLIC ROADS
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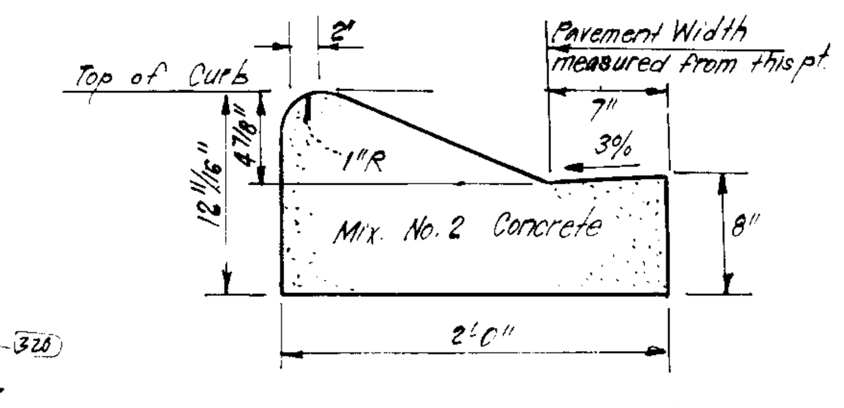
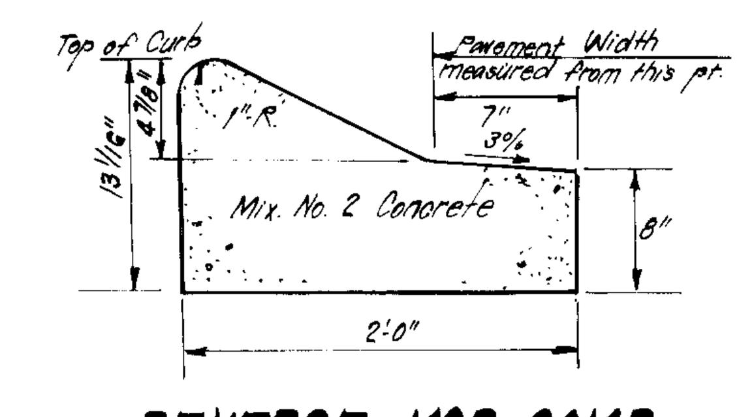
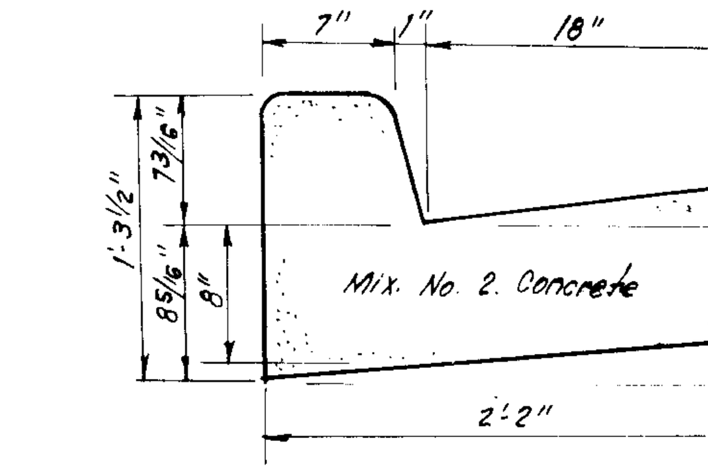


MODIFIED COMBINATION CURB & GUTTER
NO SCALE



REVERSE MOD. COMB. CURB & GUTTER
NO SCALE



STANDARD 7" COMB. CURB & GUTTER
NO SCALE

LEGEND:

1. Contour Interval — 2 ft.
2. Existing Contour — (310)
3. Proposed Contour — 310
4. Spot Elevation — +10.5
5. Direction of Drainage
6. Proposed Storm Drainage
7. Retaining Wall
8. Existing Trees to be retained

SITE ANALYSIS:

1. Zoning: New Town (Apts)
2. Total Area: 3.92 Acres
3. Number of Units permitted: 38
4. Number of Units proposed: 38
5. Number of Parking Spaces Required: 76
6. Number of Parking Spaces Provided: 82

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 6-15-83

WATER & SEWER NOTES

1. All Sewer Mains shall be C.S.P.X., V.C.P.X., P.V.C. or A.C.P. class 2400.
2. All materials used for Water & Sewer shall be in accordance with Howard Co. Standards.
3. All W&S construction shall be performed in accordance with the 1977 Howard Co. Plumbing Code and Howard Co. Standards and Specifications.
4. All Water Mains shall be C.I.P. or D.I.P.
5. All Water Mains shall have a minimum of 3.5' of cover.

GENERAL NOTES:

1. All materials and construction shall be in accordance with the Howard County Road Construction Code and Specifications.
2. Installation of traffic control devices, markings and signing shall be in accordance with the Manual of Uniform Traffic Control Devices, latest division.
3. All parking spaces and travelled ways to be privately owned & maintained.
4. This plan is subject to the criteria set forth in Final Development Plan Phase 107 A-2 as recorded in Plat 3054 A-28.
5. All coordinates are based on Maryland State Grid System. Elevations are based on U.S. Coast and Geodetic Survey Mean Sea Level Datum, 1929.
6. The area covered in this submission is located on Tax Map #30.
7. Public Water & Sewer to be utilized.
8. Water & Sewer House Connections shall be installed in accordance with Contract # as approved by the Ho. Co. Board of Engineering.
9. Any damage to county owned rights of way shall be corrected at the developer's expense.
10. Roof Storm Water carried in downspouts will be handled by one of the following methods:
    A. Downspout to splash block and discharge to ground having good percolation.
    B. Downspout piped to curb.
    C. Downspout connected to Storm Drain.

Plat Reference: #5636 on 10-14-83

REVISION: 10/3/83 Adjusted Units 35-38, 28-30 & adjacent grading
7/19/83 RAISED UNITS #19-21 & 25-28 0.8' FOR SEWER

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 10-13-83
CHIEF DIVISION OF LAND DEVELOP. & ZONING ADMIN. — DATE 10-13-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-11-83
CHIEF BUREAU OF ENGINEERING — DATE 10-11-83

Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Approved Robert W. Zieber, Howard S.C.D. — 10-11-83 Date
Plan Number

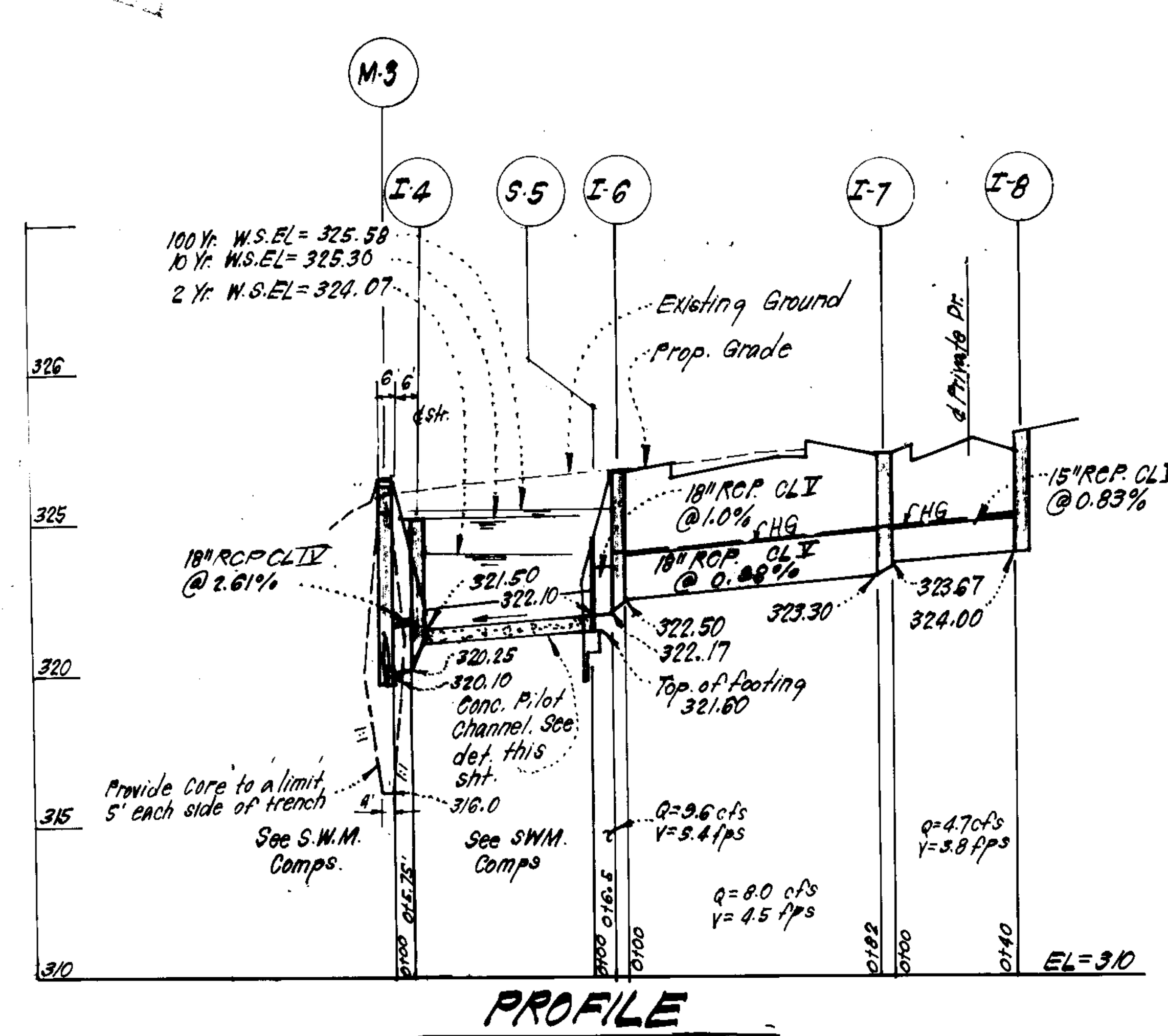
These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
U.S. Soil Conservation Service — 10-11-83 Date

"I certify that all development and construction will be done according to these plans of development and erosion and sediment control ..." Walter A. Kehoe 5/10/83

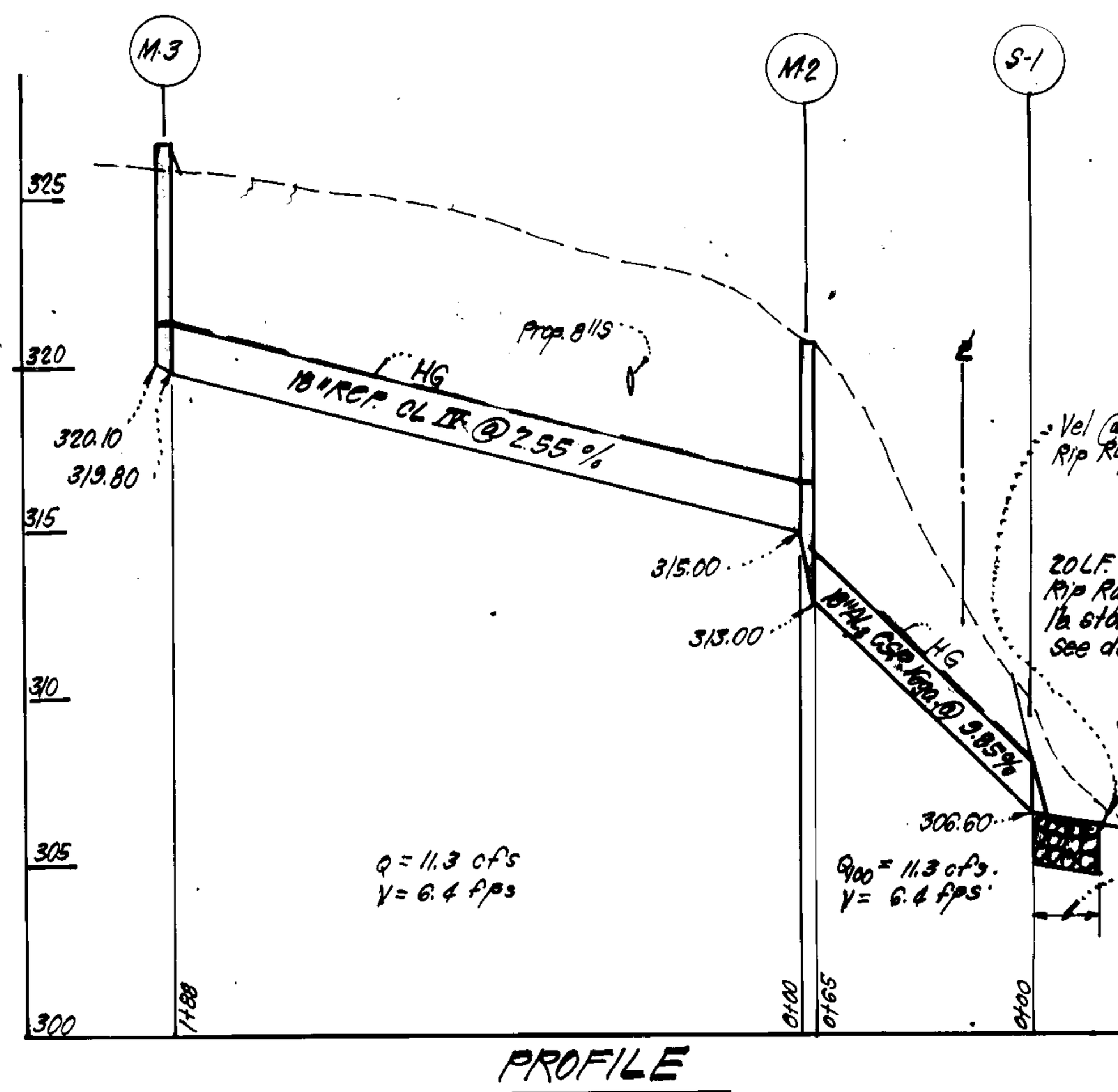
ENGINEER'S CERTIFICATE
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.
Registered Professional Engineer — 5-12-83 Date

CFS CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400		
DESIGNED DAB WHT	SITE DEVELOPMENT PLAN LOT D-8	SCALE 1"=30
DRAWN KIW	COLUMBIA	DRAWING 1 OF 5
CHECKED DAB WHT	TOWN CENTER SECTION 7 AREA 7 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 83 030
DATE 5-10-83	FOR: W.A. KEHOE COMPANY One Knoll North Drive Columbia, Md. 21045	FILE NO. 83 030 X

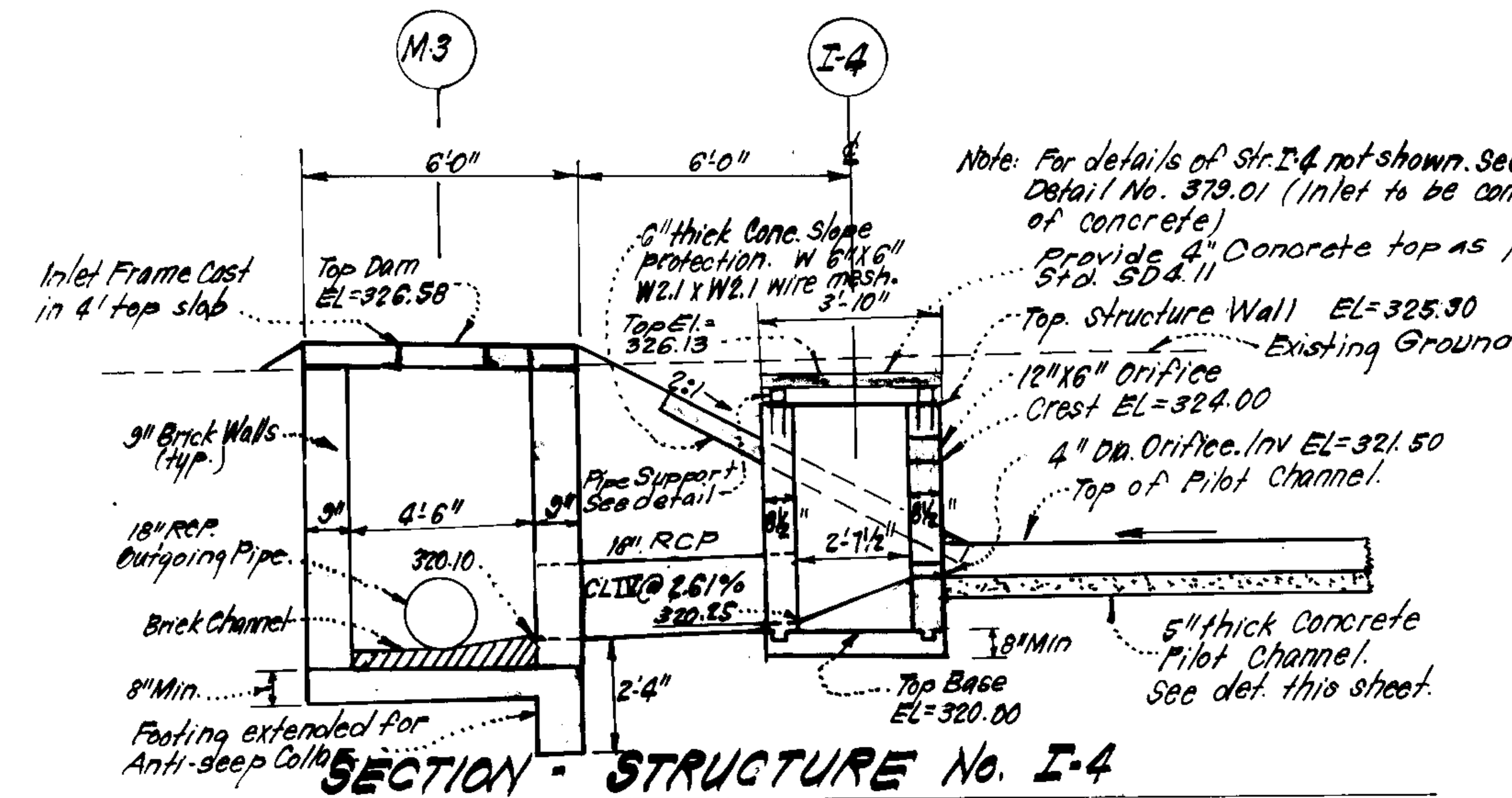
SDP-83-194 C



PROFILE
SCALE: HORIZ 1"=50' VERT. 1"=5'

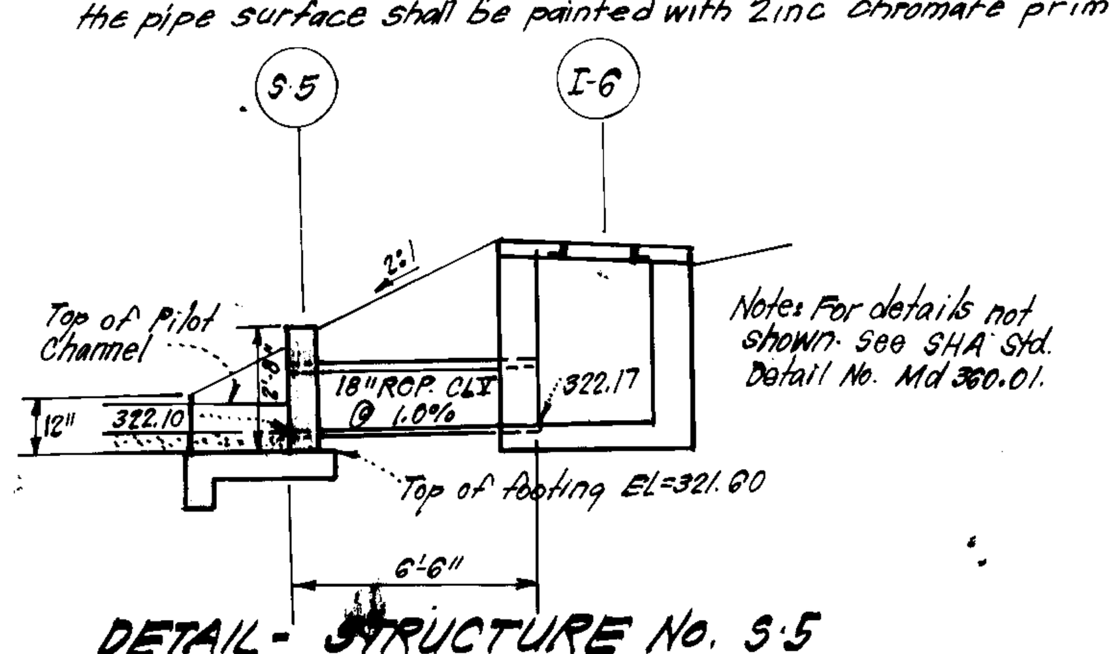


PROFILE
SCALE: HORIZ 1"=50' VERT. 1"=5'

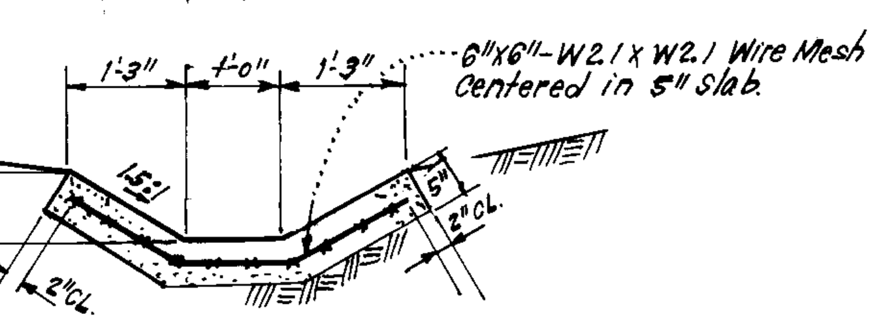


SECTION - STRUCTURE No. I-4
SCALE: 1/2"=1'-0"

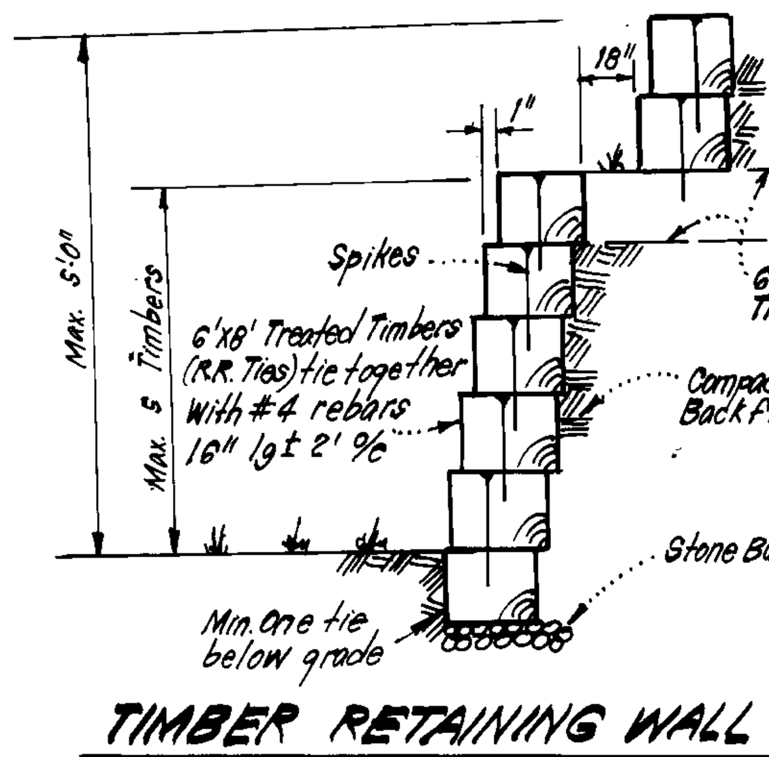
NOTE: Where metal pipe comes in contact with concrete the pipe surface shall be painted with zinc chromate primer.



DETAIL - STRUCTURE No. S-5
SCALE: 1"=5'



CONCRETE PILOT CHANNEL
SCALE 1/2"=1'-0"



TIMBER RETAINING WALL
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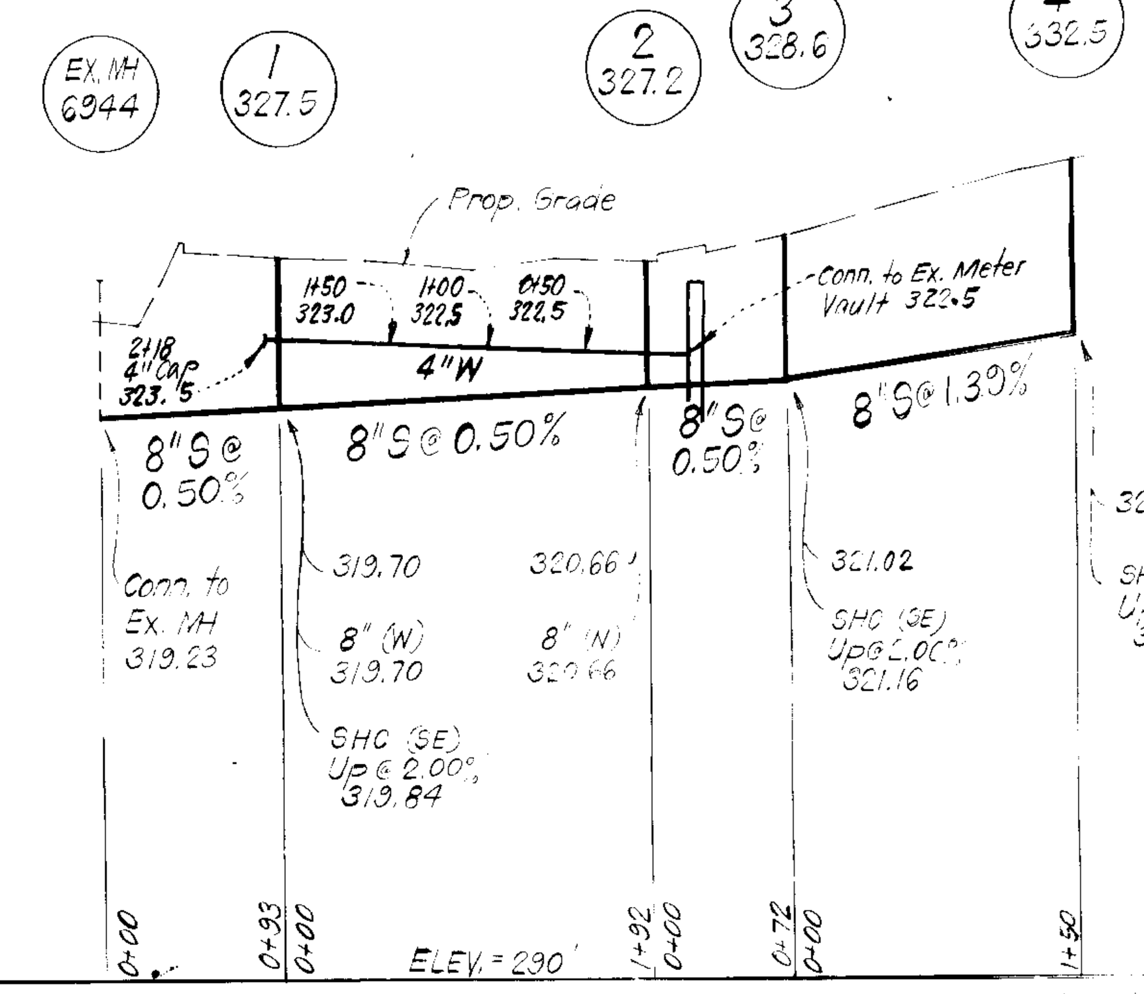
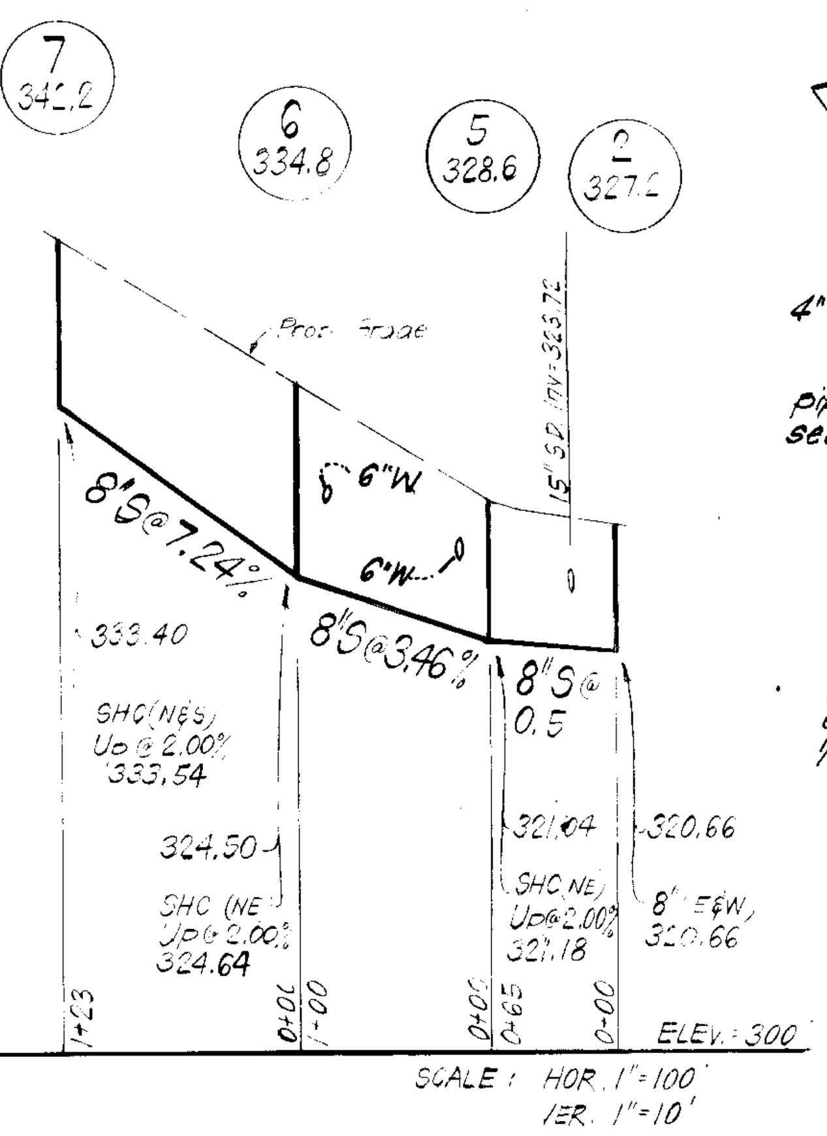




SCALE: HOR. 1"=100' VER. 1"=10'

STORM WATER MANAGEMENT POND NOTES

I. SITE PREPARATION:

A. Areas designated for the borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of top soil. 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.

B. Areas to be covered by the pond or 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.

C. 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 top soil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL:

A. MATERIAL: The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood rubbish, over size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including free board) as shown on the plans.

B. PLACEMENT: Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8" max. thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

C. 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 not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used. Where a minimum required density is specified each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the engineer.

D. CUTOFF TRENCH: Where specified, a cut-off trench shall be excavated along or parallel to the center line of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with a minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the cut-off trench shall be the most impervious material available onsite and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL:

Backfill material 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 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 twenty-four inches or greater over the structure or pipe.

IV. REINFORCED CONCRETE PIPE:

A. MATERIALS: Reinforced Concrete pipe shall have a rubber gasket joint and shall equal or exceed A.S.T.M. Specification C-361. Approved equivalents are AWWA Specification C-301.

B. BEDDING: All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside dia. with a minimum thickness of 3". W.S.S.C. low cradle bedding is an approved equivalent, or as shown on the drawing.

C. 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 orginal line and grade of the pipe.

D. Backfilling shall conform to structural backfill as shown above.

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

V. CONCRETE:

A. MATERIALS:

a. Cement: Normal Portland Cement shall conform to the latest ASTM Spec. C-150.

b. Water: The water used in concrete shall be clean free from oil, acid, alkali; scales, organic matter or other objectionable substances.

c. Sand: The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

d. Coarse Aggregate: The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one half (1½) inches.

e. Reinforcing Steel: The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM specification A-615.

B. DESIGN MIX:
The concrete shall be mixed in the following proportions, measured by weight. The water cement ratio shall be 5½: 6 U.S. gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3½. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honey combing in the structure.

C. MIXING:
The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than 1½ minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicated on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specs. given here.

D. FORMS:

a. The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

b. The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

c. Forms may be removed 24 hrs. after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

E. REINFORCING STEEL:
All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

F. CONSOLIDATING:
Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be suplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

G. FINISHING:
Defective concrete, honey combed areas, voids left by the romoval of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

H. PROTECTION AND CURING:
Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first 3 days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

I. PLACING TEMPERATURE:
Concrete may not be placed at temperatures below 37°F with the temperature falling, or 34°F with the temperature rising.

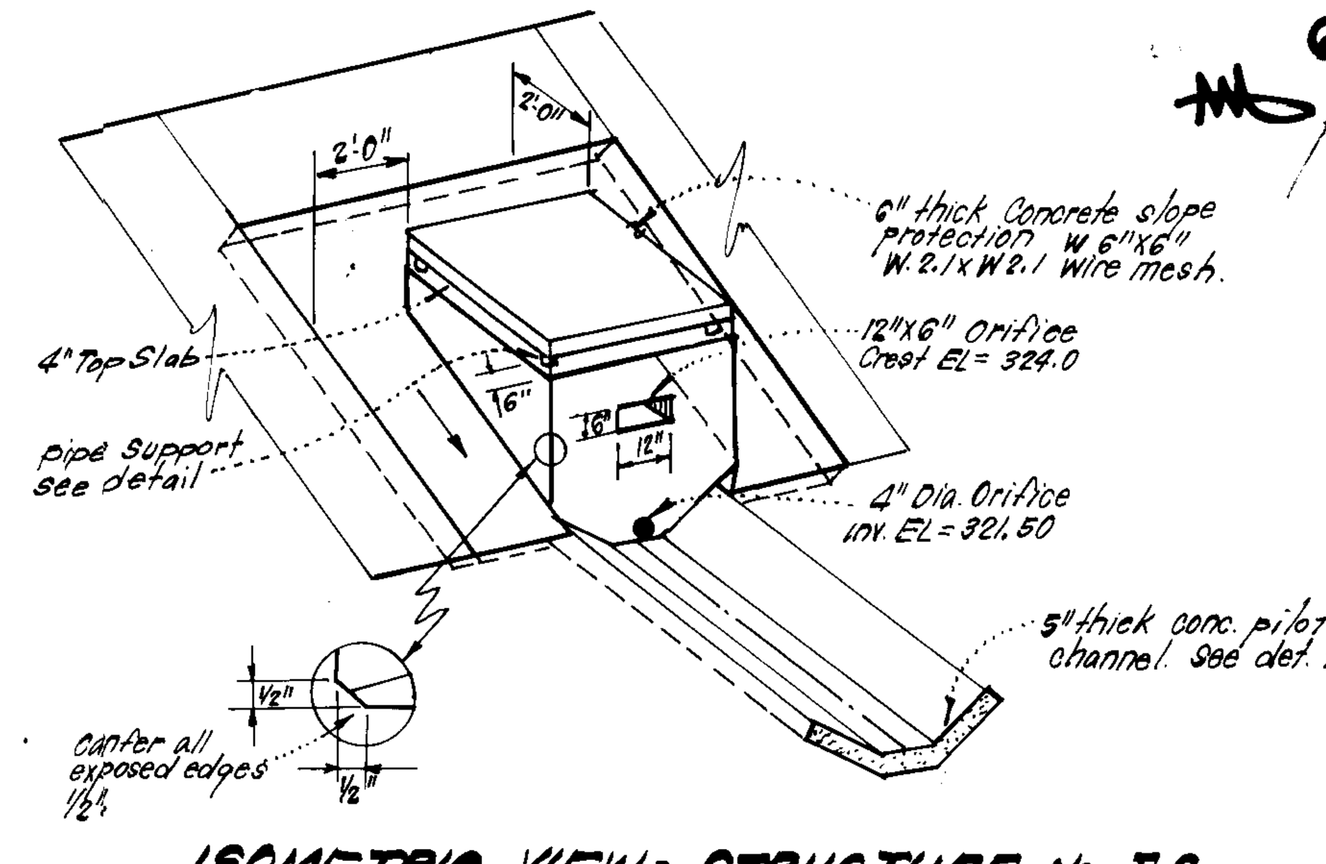
VI. STABILIZATION:

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, fertilizing and mulching, (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VII. 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.

APPROVED 6-15-83



ISOMETRIC VIEW - STRUCTURE No. I-2
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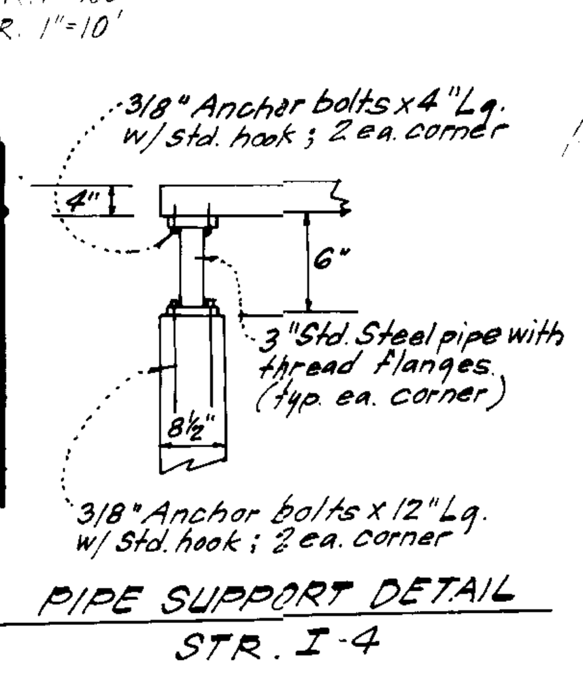
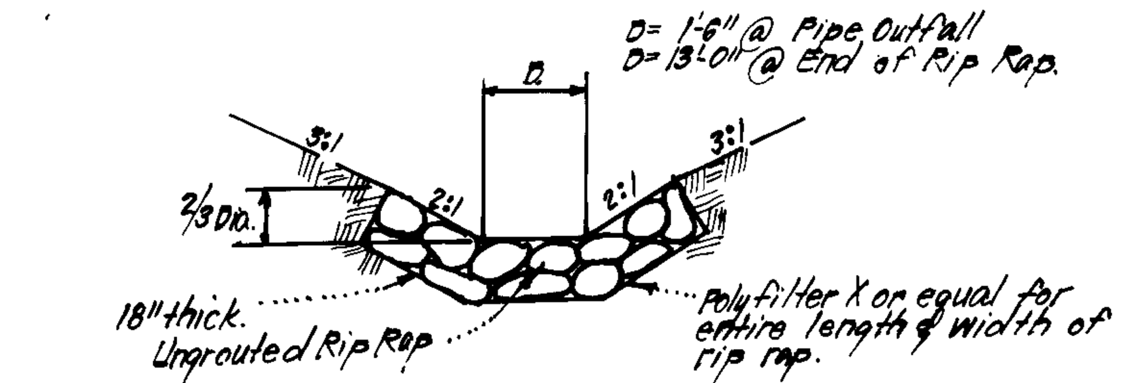


PIPE SUPPORT DETAIL
STR. I-4



D= 1'-6" @ Pipe Outfall
D= 13'-0" @ End of Rip Rap.

UNGROUTED RIP RAP DETAIL
NO SCALE

PIPE SCHEDULE

	SIZE	TYPE	LENGTH
	15"	RCP CL V	40 LF
*	18"	AL2 CSP 16 gage	65 LF
	18"	RCP CL V	82 LF
	18"	RCP CL IV	200.25 LF

* 25% Bit. Paved Invert.

STRUCTURE SCHEDULE

	No.	TYPE	INV. IN	INV OUT	TOP ELEVATION UPPER	TOP ELEVATION LOWER	REMARKS	LOCATION
	I-4	S-Inlet Single Grate	321.50	320.50	326.13		Md SHA MD. 379.01	See Plan
*	S-5	G-Endwall Dia=18"	322.10	322.10	–		Md SHA MD 360.01	" "
	I-6	A-5 Inlet W=3'-0"	322.50	322.17	326.70	326.70	Ho. Co. Std. SD 4.01	" "
	I-7	A-5 Inlet W=3'-0"	323.67	323.30	327.30	327.30	Ho. Co. Std. SD 4.01	" "
	I-8	A-5 Inlet W=2'-6"	324.00	324.00	328.00	328.00	Ho. Co. Std. SD 4.01	" "
	S-1	End Section Dia=18"	306.60	306.60	–		Md SHA. Md 370.01	" "
	M-2	A-Manhole 48" Rd.	315.00	313.00	320.70		Ho. Co Std. G. 5.01	" "
	M-3	B-Manhole 54" Sq.	320.10	319.80	326.60		Ho. Co. Std. G-5.05	" "

* See detail of Structure No. S-5 this sheet.

No.	REVISION	DATE
1	Revised Slope Str. # M-2 to M-3, added 6"W crossing MH5 to 6 and revised Slope MH 2 to 5.	10-31-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 10/13/83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — 10-13-83
CHIEF, DIVISION OF LAND DEVELOP'T & ZONING ADMIN. — DATE 10-13-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-11-83
CHIEF, BUREAU OF ENGINEERING — DATE 10-11-83

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 10-11-83

[illegible] small pond construction, soil erosion and [illegible] meet the requirements of the Howard [illegible] District.
Approved — Howard S.C.D. — Date 10-11-83
Plan Number

DEVELOPER'S CERTIFICATE
"I certify that [illegible] development and/or construction will be done according to these plans of development, [illegible] construction and erosion and sediment control. [illegible] authorize periodic on-site inspection by the [Howard] Soil Conservation District or their authorized [illegible]. Deviation from this [illegible] will not be made unless authorized by The Howard Soil Conservation District. I will provide the Howard Soil Conservation District with a red-lined "as-built" of the pond within 30 days of completion."
Walter A. Kehoe — 5/10/83

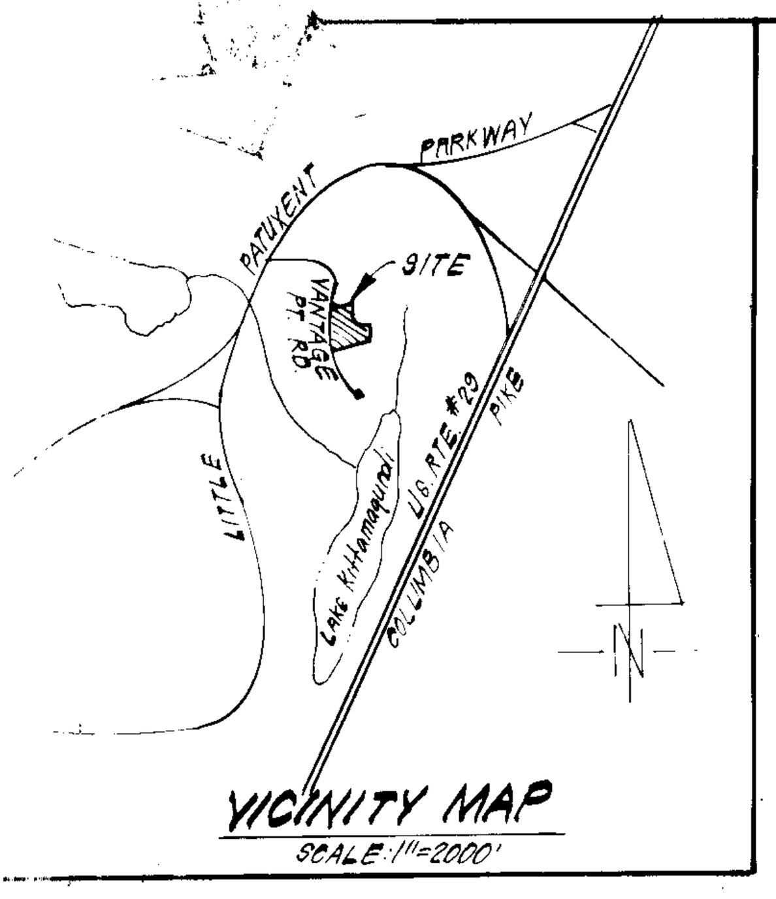
ENGINEER'S CERTIFICATE
"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."
Signature of Engineer — Date 5-12-83

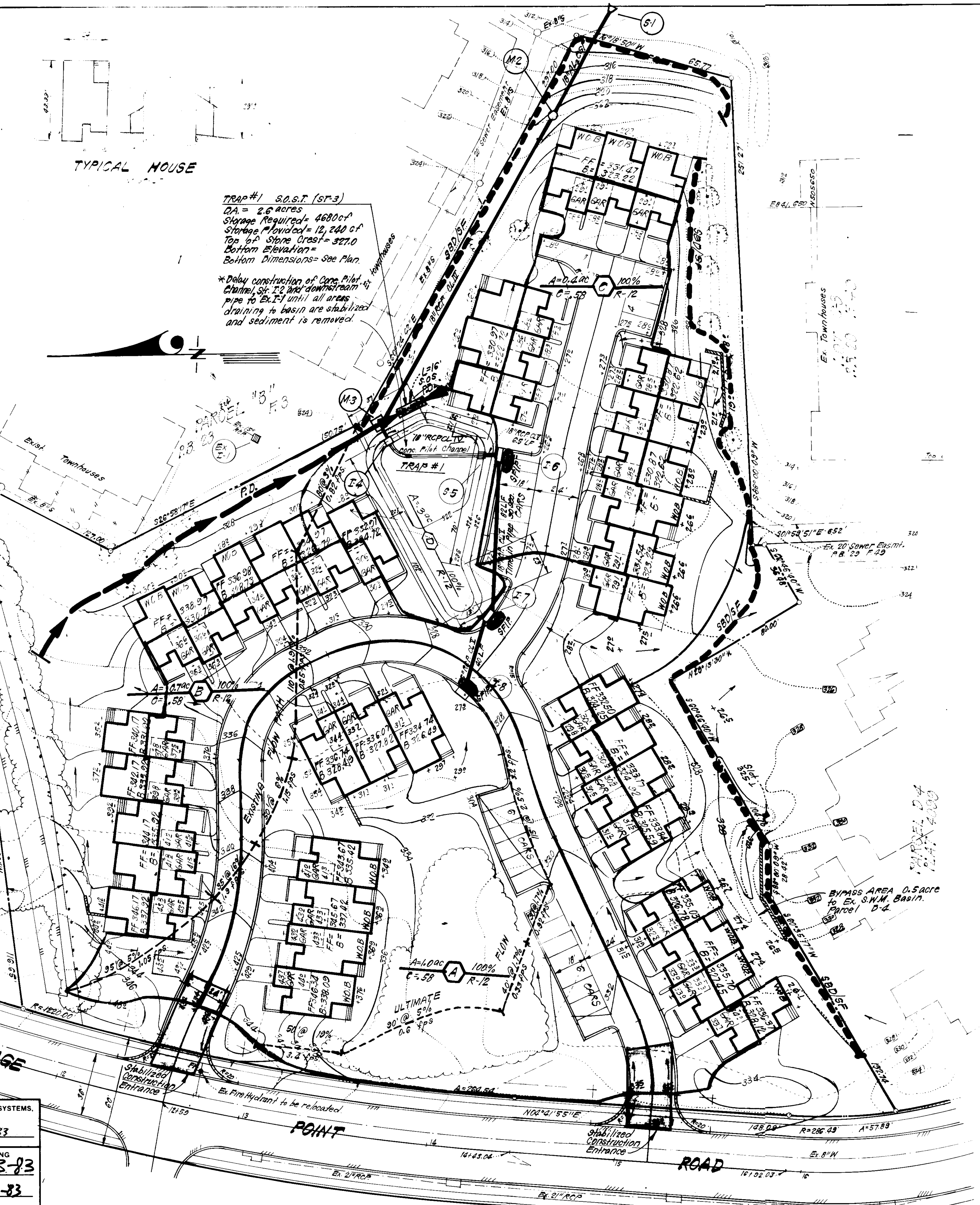
Plat Reference: # 5636

CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED DAB	SITE DEVELOPMENT PLAN LOT D-8	SCALE As Shown
DRAWN K.W	COLUMBIA	DRAWING 2 OF 5
CHECKED DAB	TOWN CENTER SECTION 7 AREA 7 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 83-030
DATE 5-10-83	FOR: W.A. KEHOE COMPANY One Knoll North Drive Columbia, Md. 21045	FILE NO. 83-030-X

SDP-83-194c





LEGEND:

1. Contour Interval — 2 ft.
2. Existing Contour — (310)
3. Proposed Contour — 310
4. Spot Elevation — +10.5
5. Direction of Drainage
6. Proposed Storm Drainage
7. Retaining Wall
8. Existing Trees to be retained
9. Perimeter Dike — P.D.
10. Straw Bale Dike or Silt Fence — SBD/SF
11. Stone Filter Inlet Protection — SFIP
12. Stabilized Construction Entrance

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
[signature] 10/13/83
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[signature] 10-13-83
PLANNING DIRECTOR — DATE
[signature] 10-13-83
CHIEF, DIVISION OF LAND DEVELOP. & ZONING ADMIN. — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[signature] 10-11-83
DIRECTOR — DATE
[signature] 10-11-83
CHIEF, BUREAU OF ENGINEERING — DATE
[signature] 10-11-83

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 or their authorized agents, as are deemed necessary."

[signature] 5/10/83
Signature of Developer/Builder — Date
Walter A. Kehoe

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
[signature] 10-11-83
Signature — Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[signature] 10-11-83
Approved — Date

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 6-15-83
[signature]

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.

[signature] 5-12-83
G. Nelson Clark — Date

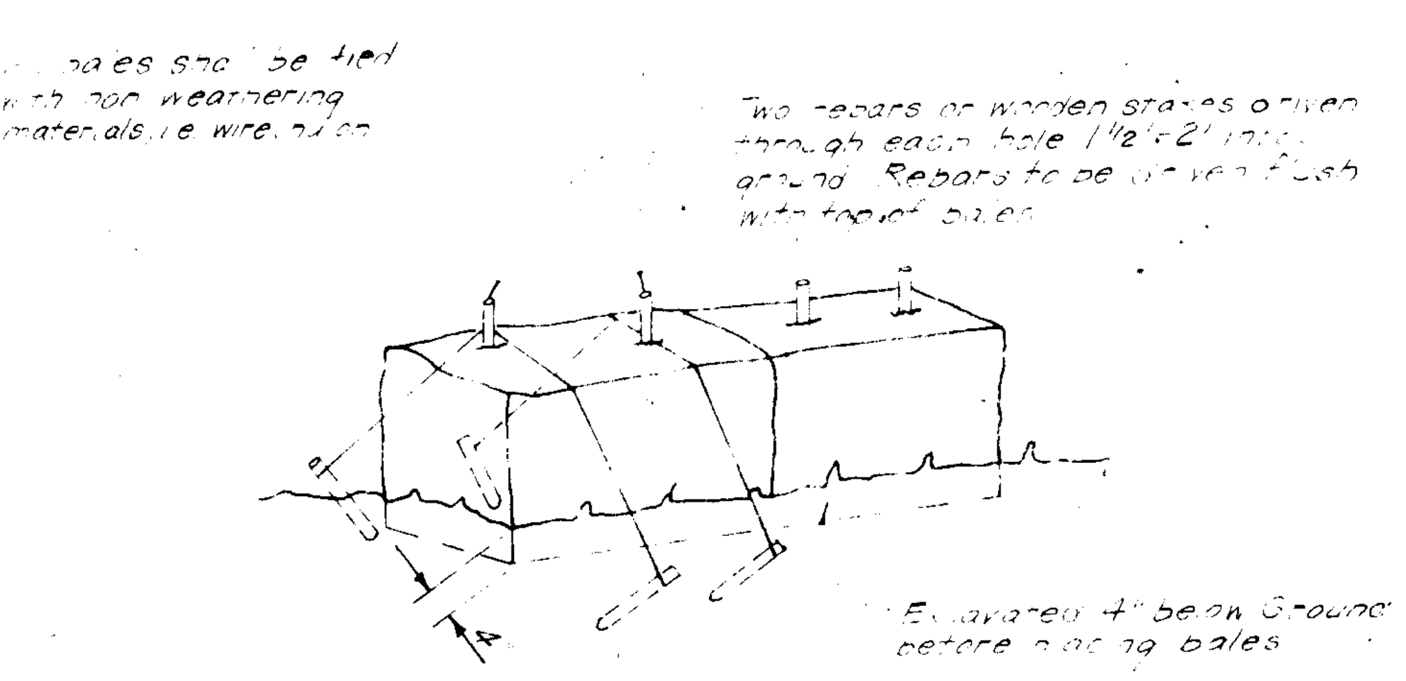
STATE OF MARYLAND — G. NELSON CLARK — REGISTERED PROFESSIONAL ENGINEER

SDP 83-194C

CFS
CLARK · FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

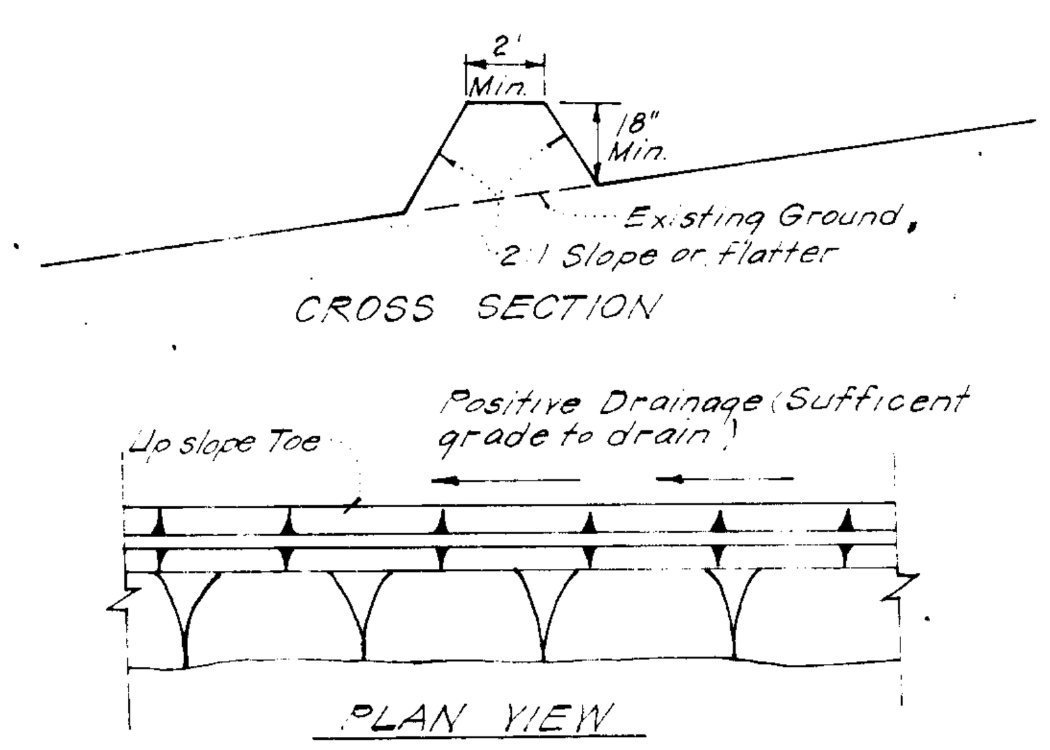
DESIGNED DAB WHT	SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP LOT D-8	SCALE 1"=30'
DRAWN KJW	COLUMBIA	DRAWING 3 OF 5
CHECKED DAB WHT	TOWN CENTER SECTION 7 AREA 7 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 83-030
DATE 5-10-83	FOR: W.A. KEHOE COMPANY One Knoll North Drive Columbia, Md 21045	FILE NO. 83-030-SE

SDP-83-194c

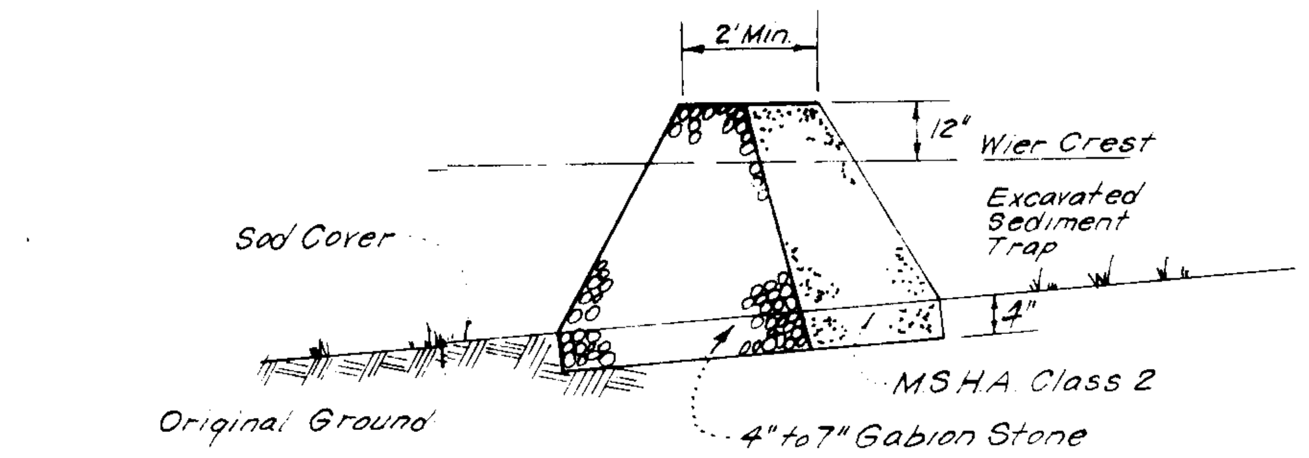


Note:
In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or twine as shown above.)

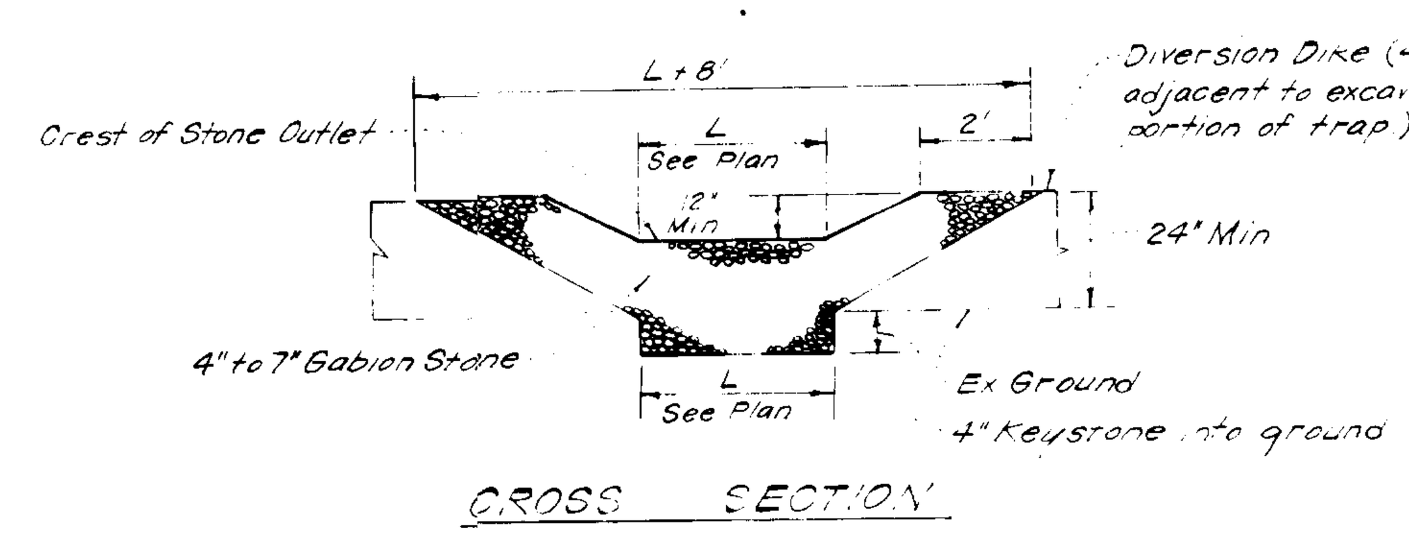
STRAW BALE DIKE DETAIL (SBD)
NO SCALE



PERIMETER DIKE (P.D.)
NO SCALE



Note: For Dimensions not shown see plan
PROFILE



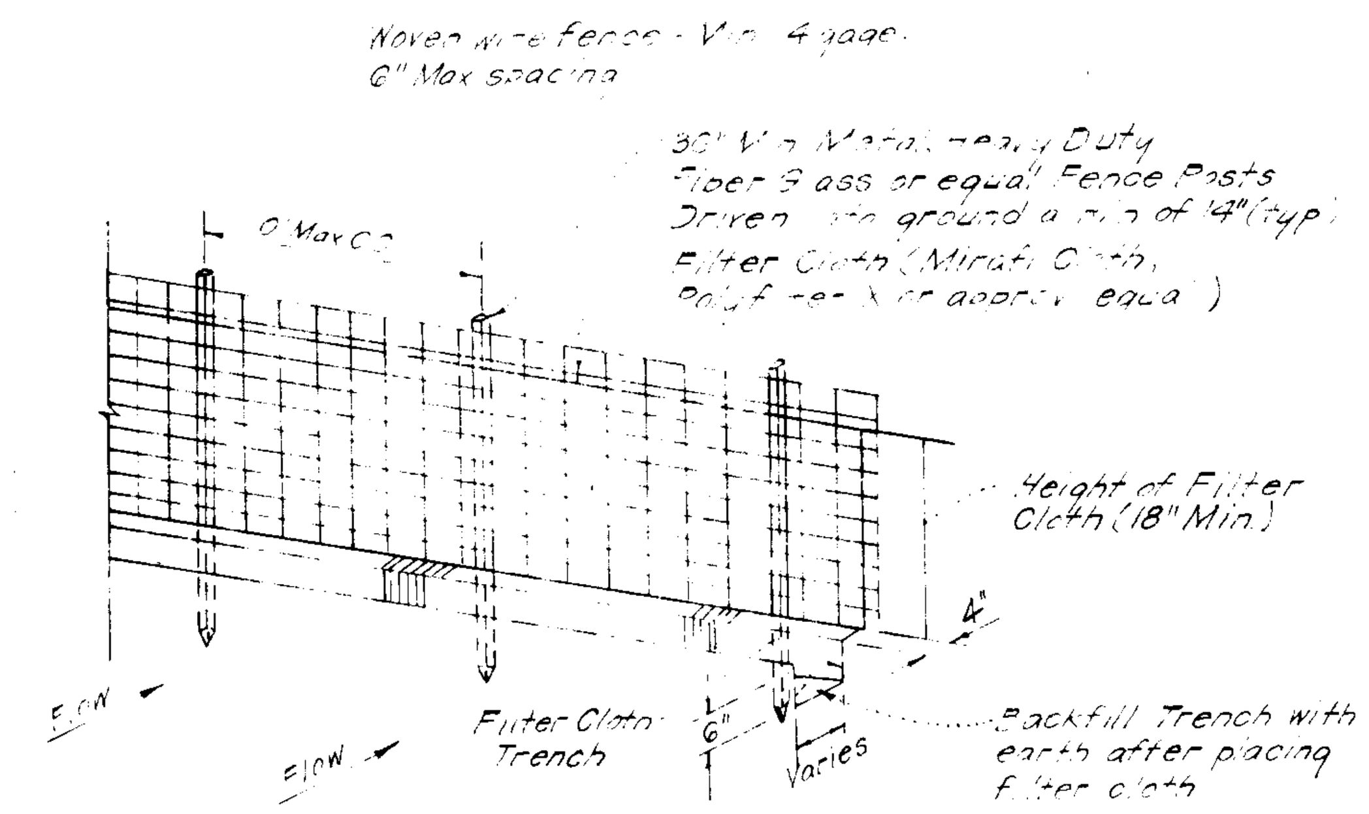
CROSS SECTION

Notes:
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft. below crest of stone outlet.
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
3. Stone Outlet to be constructed through diversion dike adjacent to excavated

DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP
NO SCALE

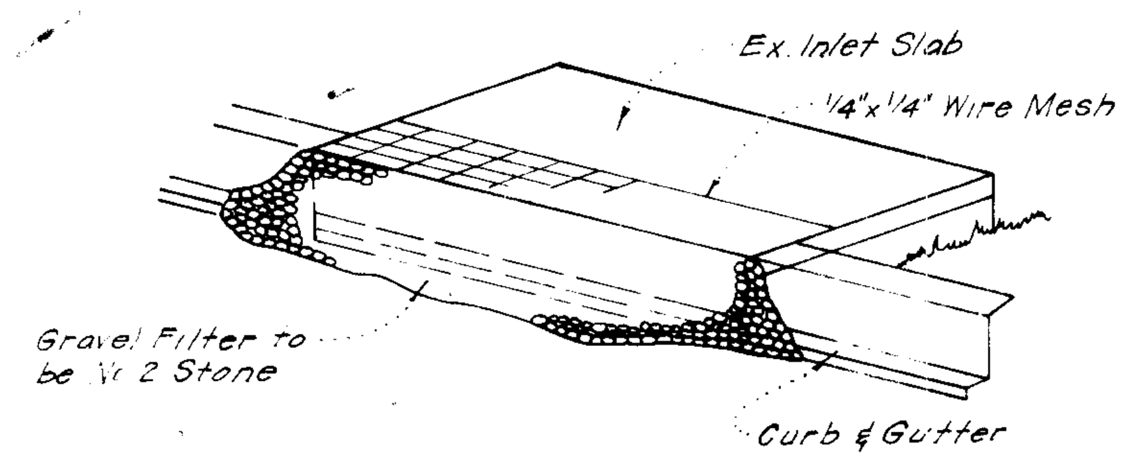
GENERAL NOTES

1. Grading Permits shall be obtained prior to installation of Sediment Control & Grading
2. All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs./1000 s.f.
3. Notify the Bureau of Inspections and Permits at least 24 hrs. before starting any work.
4. All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
5. Stabilization of Disturbed ground to be done as soon after construction as possible.
6. All disturbed area to be stabilized in accordance with the following Specifications:
   A. Seed - certified 85% germination applied at the rate of 3 lbs/1000 s.f. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye
   B. Fertilizer - 10-10-10 applied at a rate of 23 lbs./1000 s.f. Ground Agricultural Lime or Dolomatic Lime applied at a rate of 90 lbs./1000 s.f.
   C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs./1000 s.f. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
   D. All Sod used shall be Maryland State Certified.
7. All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
8. On-Site inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis
9. It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction
10. The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
11. Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
12. All pipes to be blocked at the end of each day. See detail this sheet.
13. Total Amount of Straw Bales or Silt Fence shown = 650 L.F.
14. SITE ANALYSIS:
   A. Total Area: 3.90 Acres
   B. Area to be Roofed 0.80 Acres
   C. Area to be Paved 0.70 Acres
   D. Area to be Seeded 1.40 Acres
   E. Area Undisturbed 1.00 Acres
15. CONSTRUCTION SEQUENCE:
   A. Install Stabilized Construction Entrance
   B. Install Perimeter Dike along East Property Line in Vicinity of Trap #1
   C. Excavate for Trap #1 & Install S.O.S.
   D. Install storm Drainage S-3 to I-6.
   E. Rough Grade Area & Roadway.
   F. Excavate for foundation & Rough Grade.
   G. Erect Structures, Install Utilities, Construct Curb & Gutter, Sidewalks & Paving.
   H. Final Grade and stabilize in accordance with note #6. See *note on sheet 3 for conversion of sediment & erosion control basin @ I-2 to permanent S.W.M. Facility.

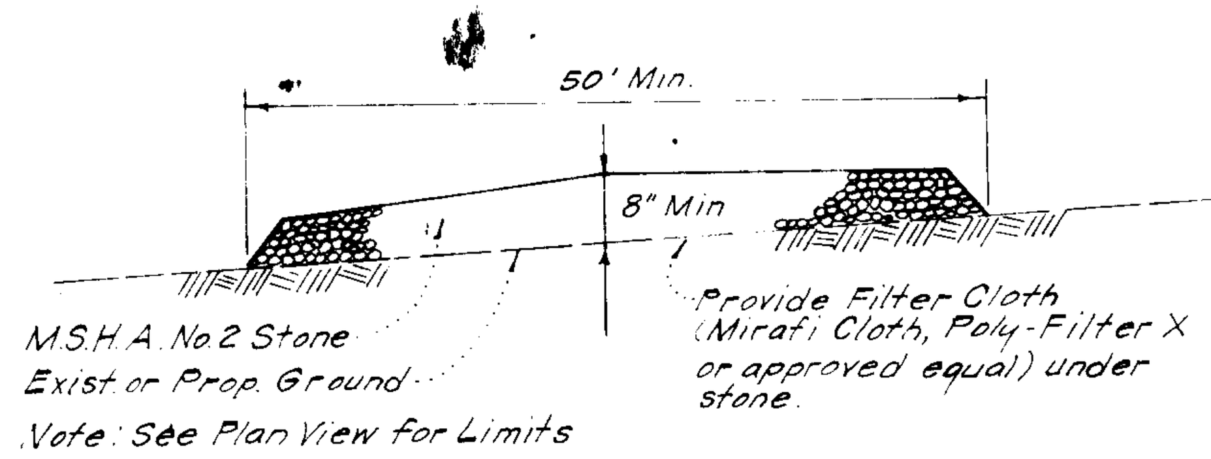


Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire by use of wire ties spaced every 24" x 24".

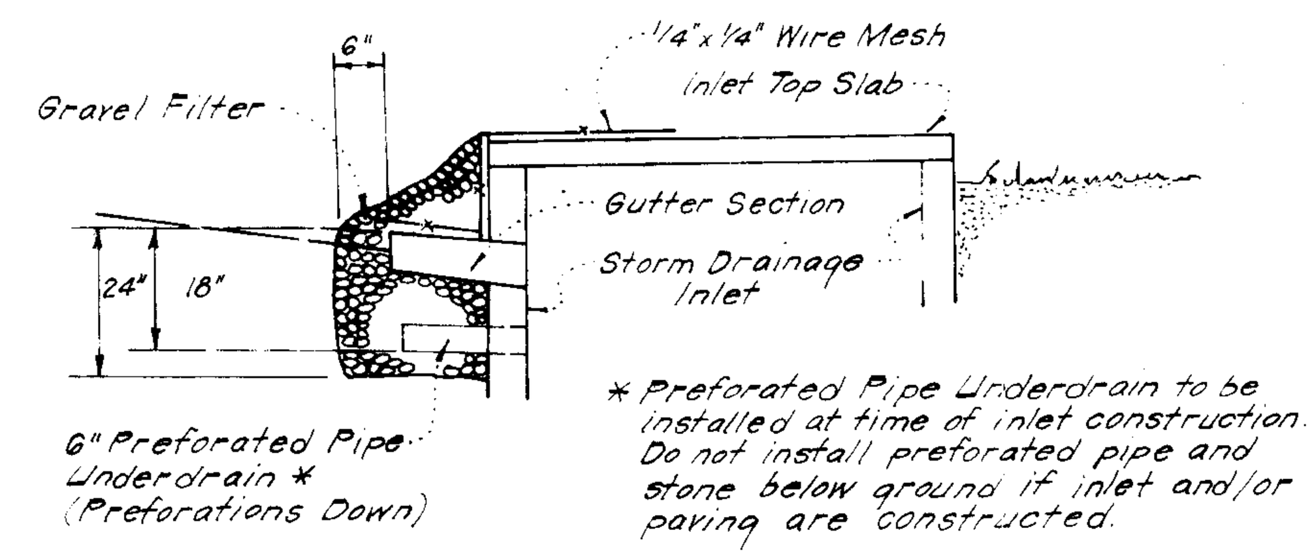
SILT FENCE DETAIL (S.F.)
NO SCALE



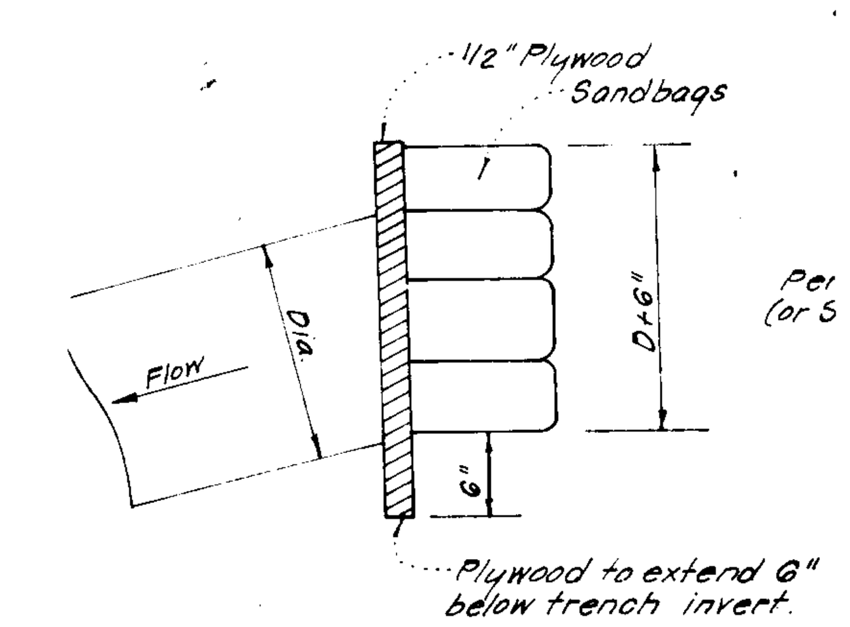
ISOMETRIC VIEW



SECTION VIEW
STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



SECTION VIEW
STONE FILTER INLET PROTECTION (S.F.I.P.)
NO SCALE



PIPE BLOCKING DETAIL
NO SCALE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 6-15-83

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 10/13/83
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 10-13-83
CHIEF DIVISION OF LAND DEVELOP. & ZONING ADMIN. — DATE 10-13-83
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-11-83
CHIEF BUREAU OF ENGINEERING — DATE 10-11-83

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature — Date 10-11-83
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVEL FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved — 10-11-83 date

DEVELOPER'S / BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer/Builder — 5/10/83 Date
Walter A. Kehoe

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.

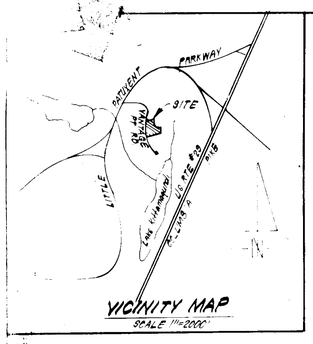
G. Nelson Clark — 5-12-83 Date

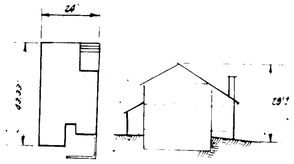
STATE OF MARYLAND · G. NELSON CLARK · NO 7139 · REGISTERED PROFESSIONAL ENGINEER

CFS
CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING MARYLAND 20904 • 301-593-3400

DESIGNED DAB.	SEDIMENT & EROSION CONTROL PLAN LOT D-8 COLUMBIA TOWN CENTER SECTION 7 AREA 7 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN KJW		DRAWING 4 OF 5
CHECKED DAB.		JOB NO 83-030
DATE 5-10-83	FOR: W.A. KEHOE COMPANY One Knoll North Drive Columbia, Md 21045	FILE NO 83-030-SE

SDP-83-194





PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT	REMARKS
	QUERCUS PALUSTRIS PIN OAK	2½-3"CAL 12-14'HT.	11	B&B HEAVY HEADS
	ACER PLATYNUM 'COPPER GLOAT' COPPER GLOAT MAPLE		10	
	ZELKOVA SERR. 'VILL. GREEN' VILLAGE GREEN ZELKOVA		13	
	GLEDITSIA T. INER. 'SHADEMASTER' THORNLESS HONEYLOCUST		21	
	SOPHORA JAPONICA 'REGENT' REGENT SCHOLARTREE		9	
	SALIX BABYLONICA BABYLON WEEPING WILLOW		3	
	PRUNUS SERR. 'KWANZAN' KWANZAN CHERRY	2-2½"CAL 8-10'HT	11	
	MALUS RADIANT RADIANT CRABAPPLE		12	
	CORNUS FLORIDA FLOWERING DOGWOOD		8	
	PRUNUS C. 'THUNDERCLOUD' PURPLELEAF FL. PLUM		5	
	PINUS THUNBERGI JAPANESE BLACK PINE	6-8'HT.	41	B&B HEAVY
	PINUS STROBUS EASTERN WHITE PINE		31	
VD	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	24-30"ht	17	

NOTES

- ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH H.P.D COLUMBIA PLANTING SPECIFICATIONS
- CONTRACTOR SHALL CHECK LOCATION OF ALL UTILITIES PRIOR TO DIGGING.
- SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LAND. ARCH. (313-3400).

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 6-15-83

No.	REVISION	DATE
1	Revised Storm Drain Alignment.	10-31-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 10/13/83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 10-13-83
CHIEF DIVISION OF LAND DEVELOP. (ZONING ADM'N — DATE 10-12-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10-11-83
CHIEF BUREAU OF ENGINEERING — DATE 10-11-83

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
13315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904

DESIGNED	J.B.C.
DRAWN	J.B.C.
CHECKED	W.H.T.
DATE	5-26-83

LANDSCAPE PLANTING PLAN
LOT D-8
COLUMBIA
TOWN CENTER
SECTION 1 AREA 1 5TH ELEC. DIST.
HOWARD COUNTY MARYLAND

PREPARED FOR: W.A. RENDE CO.
ONE KNOLL NO. DRIVE
COLUMBIA, MD 21045

SCALE	1"=30'
DRAWING	5 of 5
JOB NO.	83-030
FILE NO.	83-030

SDP-83-194c

3381