

BENCH MARKS:
 W.R.E.A. #1: ELEV. 330.05
 R.R. SPIKE IN BASE OF 14" OAK, 45' LEFT OF E. COLUMBIA GATEWAY DRIVE, STA. 119+40
 W.R.E.A. #2: ELEV. 331.66
 R.R. SPIKE IN BASE OF 10" TWIN POPLAR, 75' LEFT OF E. COLUMBIA GATEWAY DRIVE, STA. 123+45.

9-26-19 CONCRETE SLAB FOR GENERATOR AND PROTECTION BOLLARDS. THE LOD OF 315' SIGN IS EXEMPT FROM PROVIDING STORM-WATER MANAGEMENT. ANY FUTURE INCREASE IN THE LOD ABOVE 5000 SQFT SHALL REQUIRE THAT STORM-WATER MANAGEMENT BE ADDRESSED.
 11-18-19 CONCRETE SLAB FOR GENERATOR, PROTECTION BOLLARDS, AND 8' CHAIN LINK FENCE

VICINITY MAP
 SCALE: 1"=2000'
 CLARENCE W. CULLUM SEAL ONLY APPLIES TO WORK SHOWN AS REVISION

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 3-17-88

NOTE:
 REFER TO SHEET 2 OF 3 FOR SITE AND PARKING DATA.

LEGEND

- PROPERTY LINE
- BLOG. RESTRICTION LINE
- EASEMENTS
- EX. GROUND
- PROP. GRADE
- EX. CURB AND GUTTER
- EX. WATER
- PROP. WATER
- EX. SANITARY SEWER
- PROP. SANITARY SEWER
- EX. STORM DRAINS
- PROP. STORM DRAINS
- PROP. HANDICAPPED PARKING
- HANDICAPPED DETAIL RAMP
- NUMBER OF PARKING SPACES
- PROP. SIDEWALKS
- PROP. LIGHTS
- PROP. DUMPSTER PADS
- PROP. CURB AND GUTTER
- BORING LOCATION

NOTES:

- * FOR GENERAL NOTES SEE SHEET 2 OF 3.
- * ALL CURB RADI ARE 5' UNLESS OTHERWISE NOTED.
- * DUMPSTER PAD ENCLOSURES SHALL BE 6FEET HIGH AND CONSTRUCTED OF THE SAME BRICK AS THE ADJACENT BUILDING.

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

APPROVED: *James M. DeWitt* 5/27/88 DATE
 U.S. SOIL CONSERVATION SERVICE

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

APPROVED: *Stephen J. Miller* 4/27/88 DATE
 HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER

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

APPROVED: *Joseph J. Gylfe* 6/16/88 DATE
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

DIRECTOR: *W. R. ...* 6-27-88 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR: *James M. DeWitt* 6/22/88 DATE

CHIEF BUREAU OF ENGINEERING: *W. R. ...* 6-15-88 DATE

ADDRESS CHART

BUILDING #	STREET ADDRESS
A	7120 COLUMBIA GATEWAY DRIVE
B	7110 COLUMBIA GATEWAY DRIVE
C	7100 COLUMBIA GATEWAY DRIVE
D	7090 COLUMBIA GATEWAY DRIVE
E	7080 COLUMBIA GATEWAY DRIVE

SUBMISSION NAME	SECT./AREA	LOT/PARCEL #
COLUMBIA GATEWAY	M-1	
PLAT # OR L/F	BLOCK #	ZONE
7470	7	M-1
TAX/ZONE MAP	ELECT. DIST.	CENSUS TRACT
43	6	6065-02
WATER CODE	SEWER CODE	
E-06	490 0000	

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

ENGINEER'S CERTIFICATE:
 I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT 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 SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTICED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *Tapobrata Chakrabarti*
 REG. NO. 8936 DATE: 2/16/88

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
 5950 SYMPHONY WOODS RD.
 COLUMBIA MD, 21044
 (301) 740-0200

DESIGNED: K.B.
 DRAWN: J.W./K.B.
 CHECKED: N.B.

REVISIONS
 Changed Building 8-15-88
 square footage, changed
 water house connection to
 Bldg. A, C & D.
 changed sewer profile

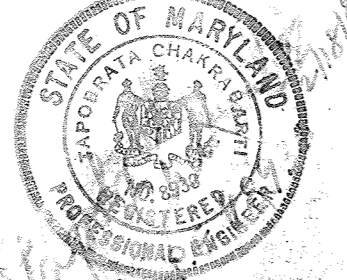
DEVELOPER: *W. R. ...* DATE: 5-17-88

SITE AND STORM WATER MANAGEMENT PLAN
 FOR
THREE PONDS BUSINESS PARK
 COLUMBIA GATEWAY PARCEL M-1

TAX MAP 43
 HOWARD CO. MD
 SCALE 1"=50'

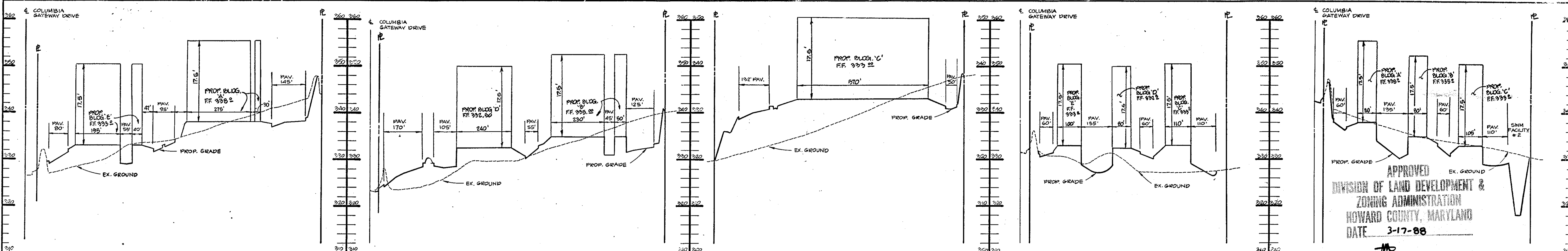
AS-BUILT

PARCEL #587
 ELECTION DIST. #6
 FEBRUARY 16, 1988
 SHEET 1 OF 2



AS-BUILT 5-14-91

SDP-88-145



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 3-17-88

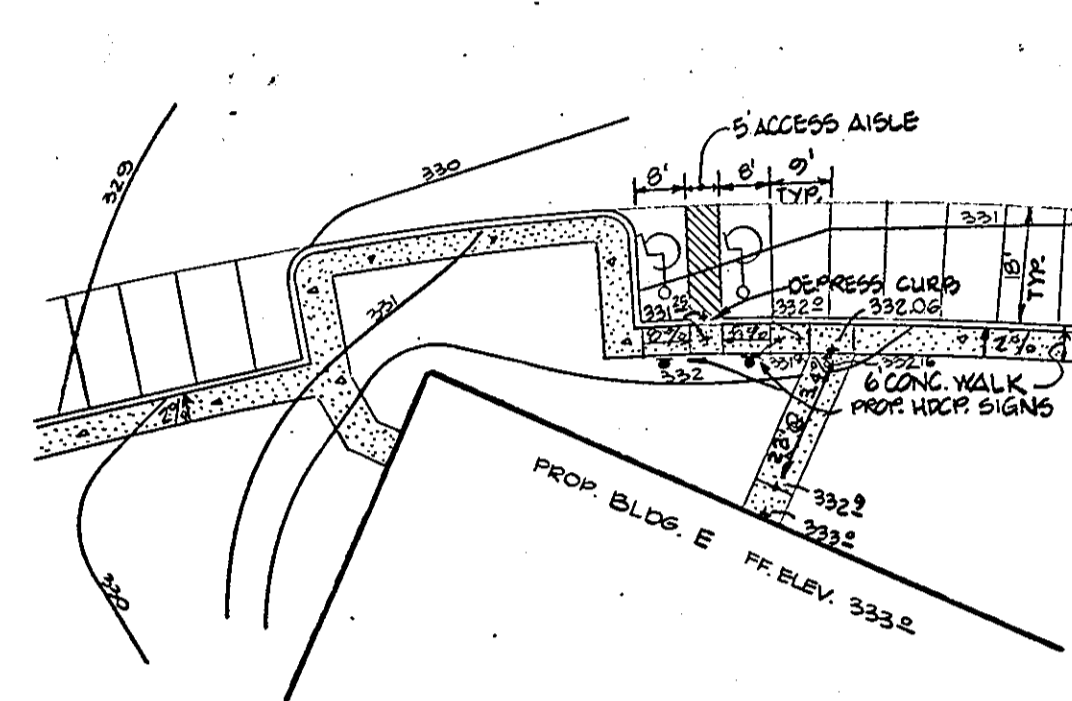
SECTION D-D SCALE: HORZ. 1" = 200' VERT. 1" = 10'

SECTION E-E SCALE: HORZ. 1" = 200' VERT. 1" = 10'

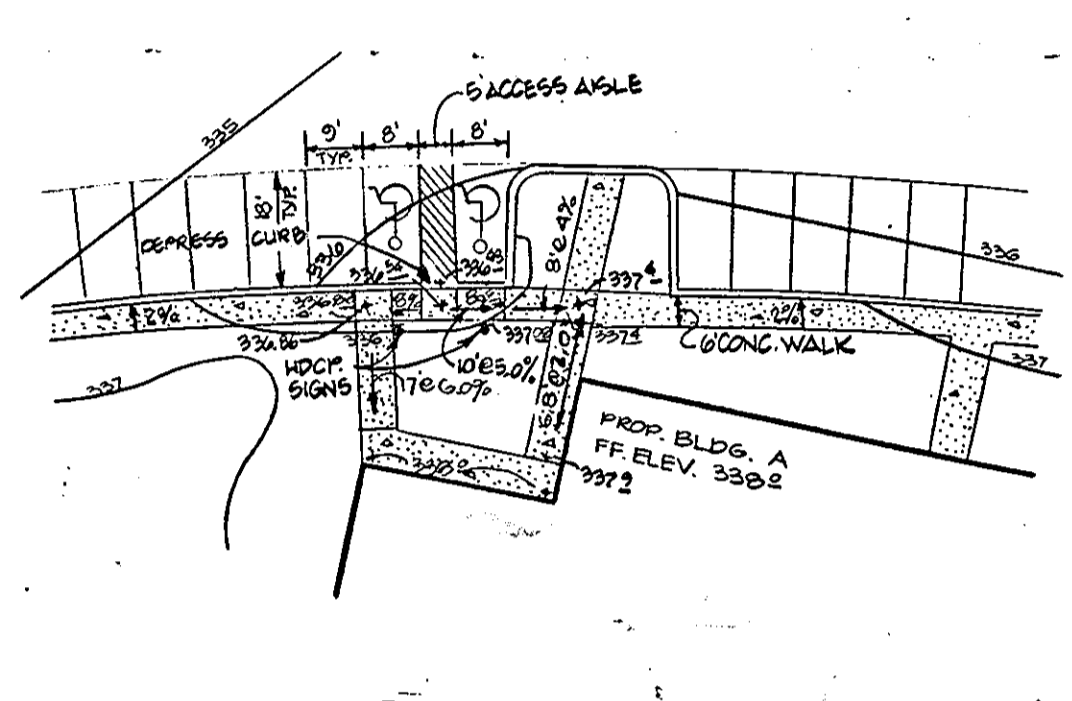
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SECTION G-G SCALE: HORZ. 1" = 200' VERT. 1" = 10'

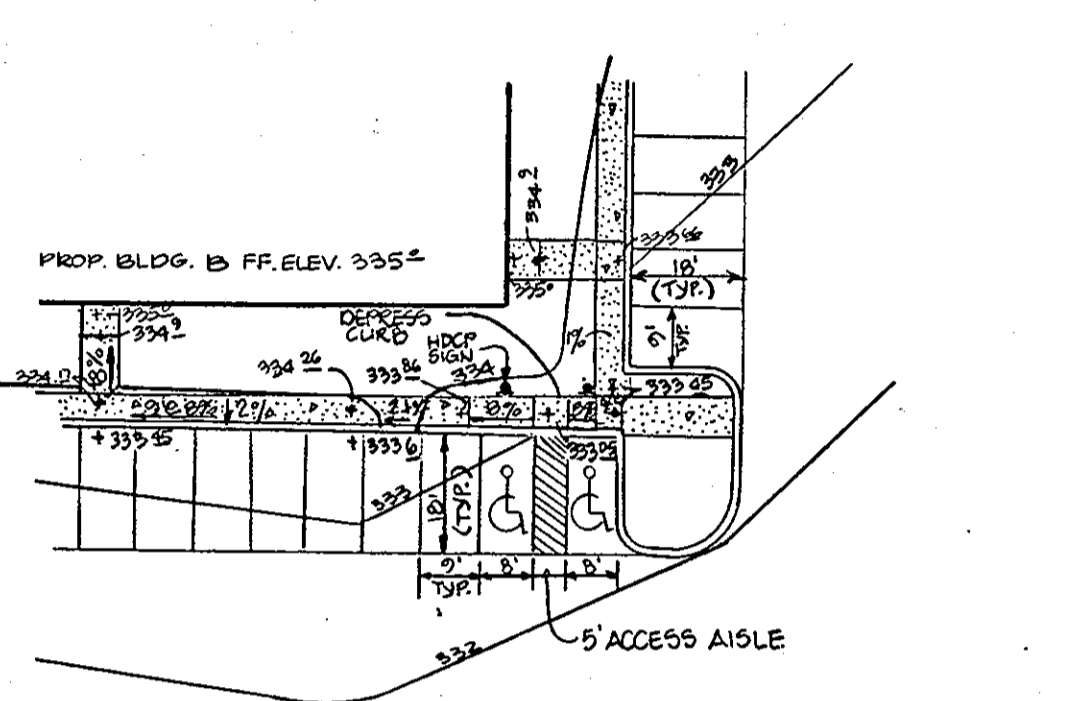
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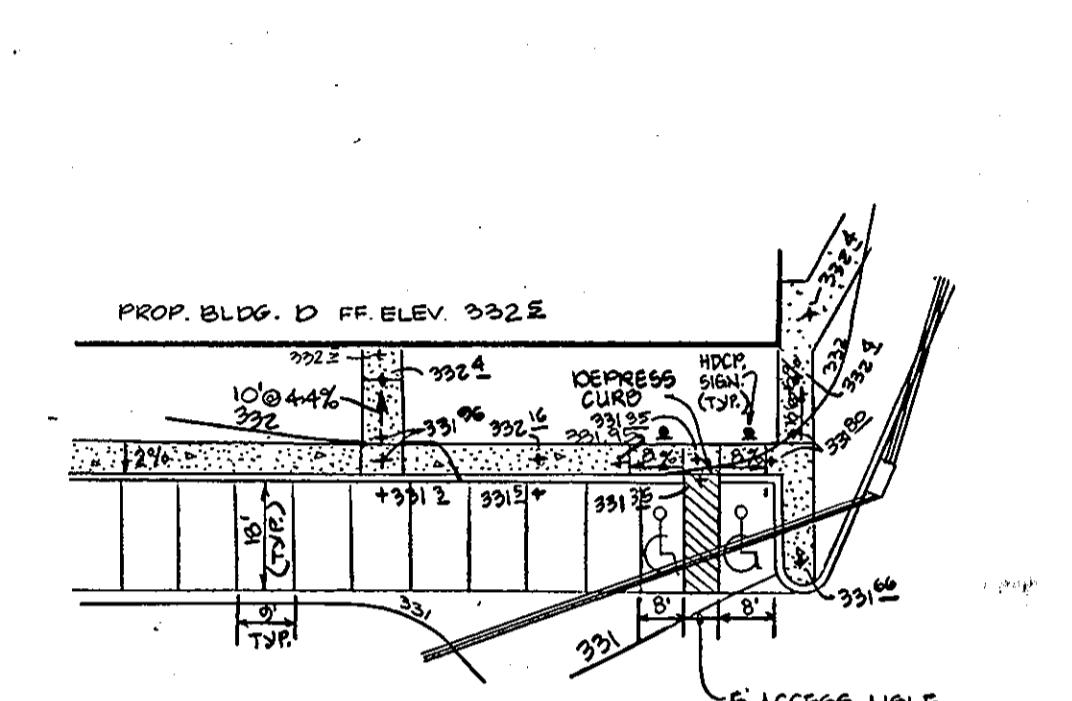
DETAIL RAMP A
SCALE: 1" = 30'



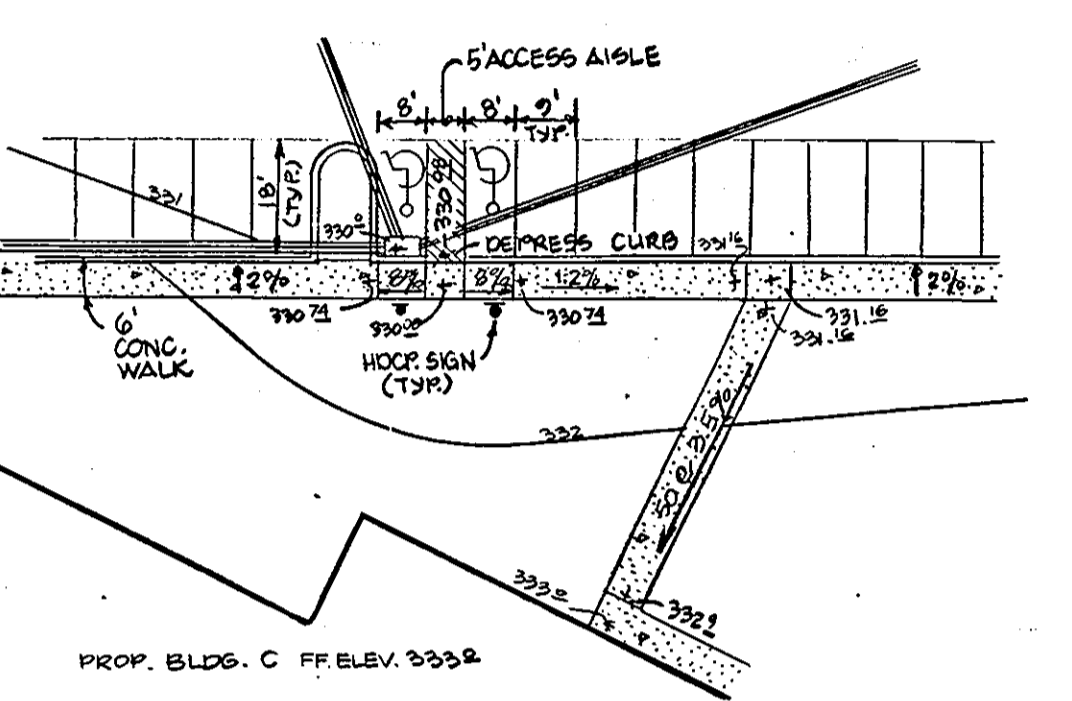
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SCALE: 1" = 30'



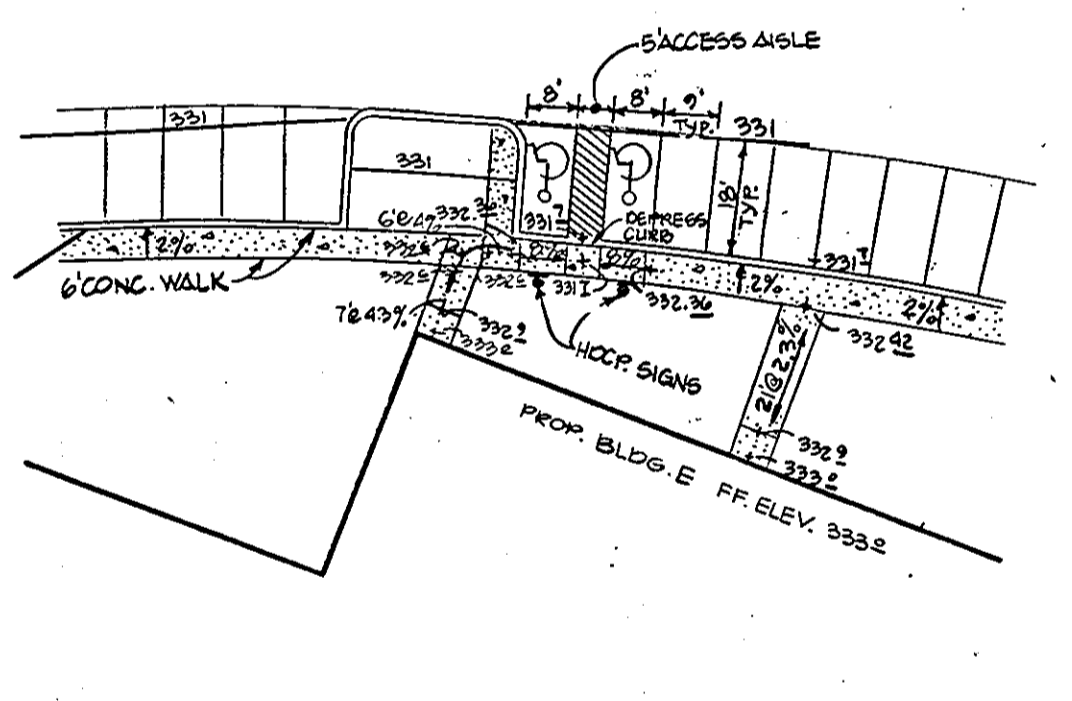
DETAIL RAMP G
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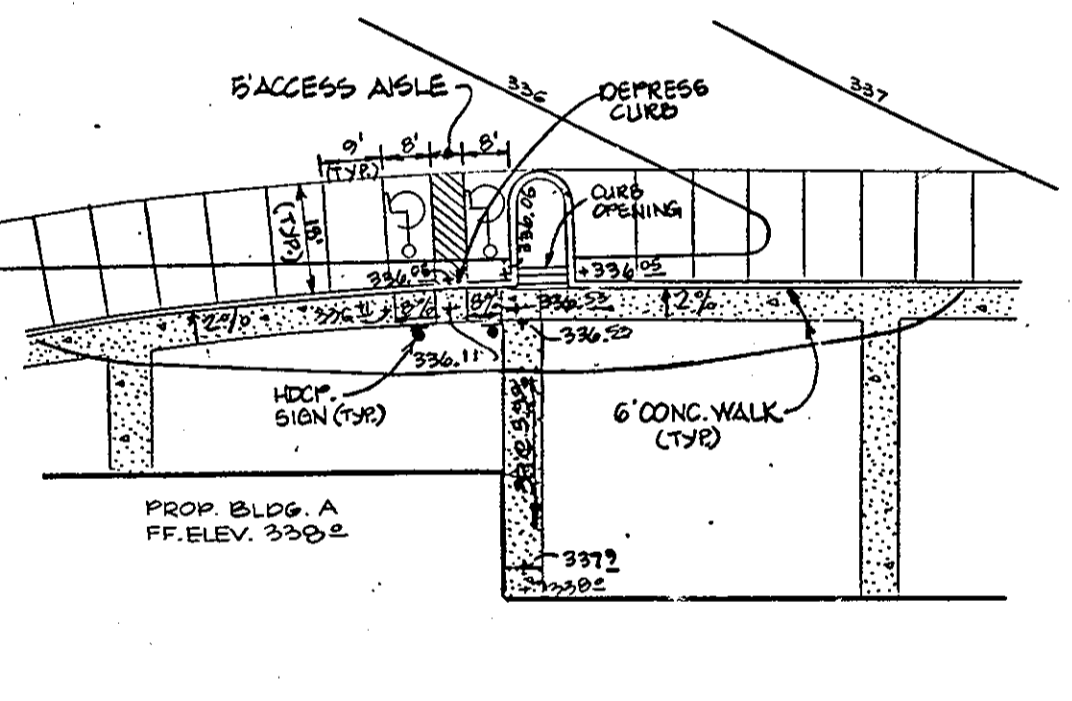
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SCALE: 1" = 30'



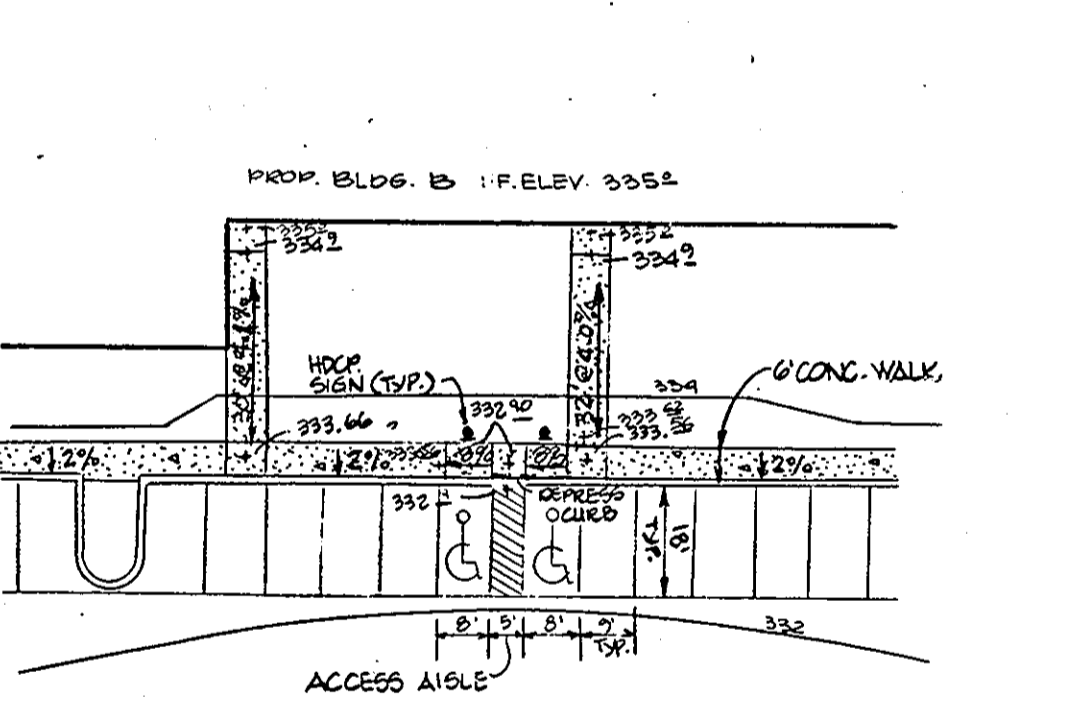
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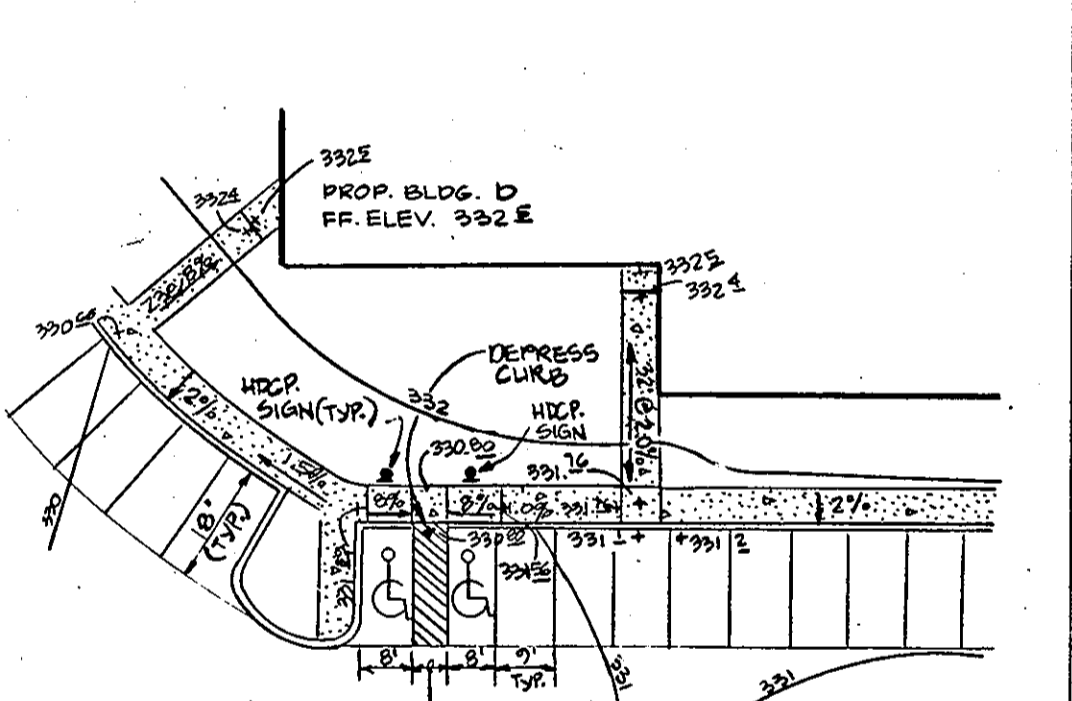
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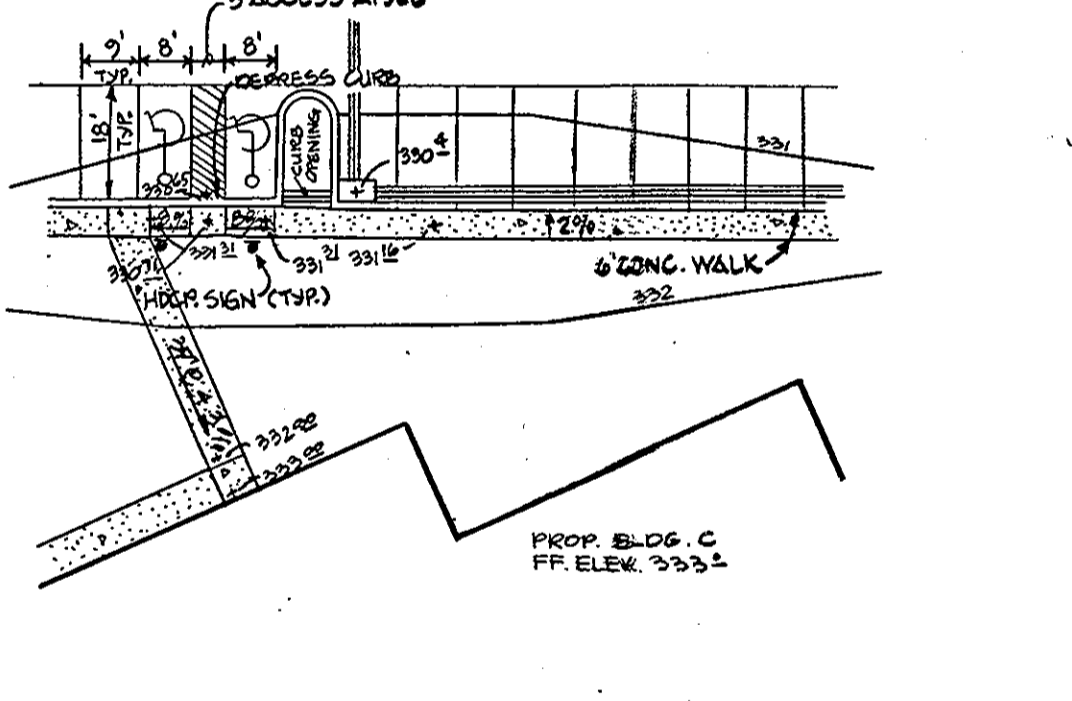
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SCALE: 1" = 30'



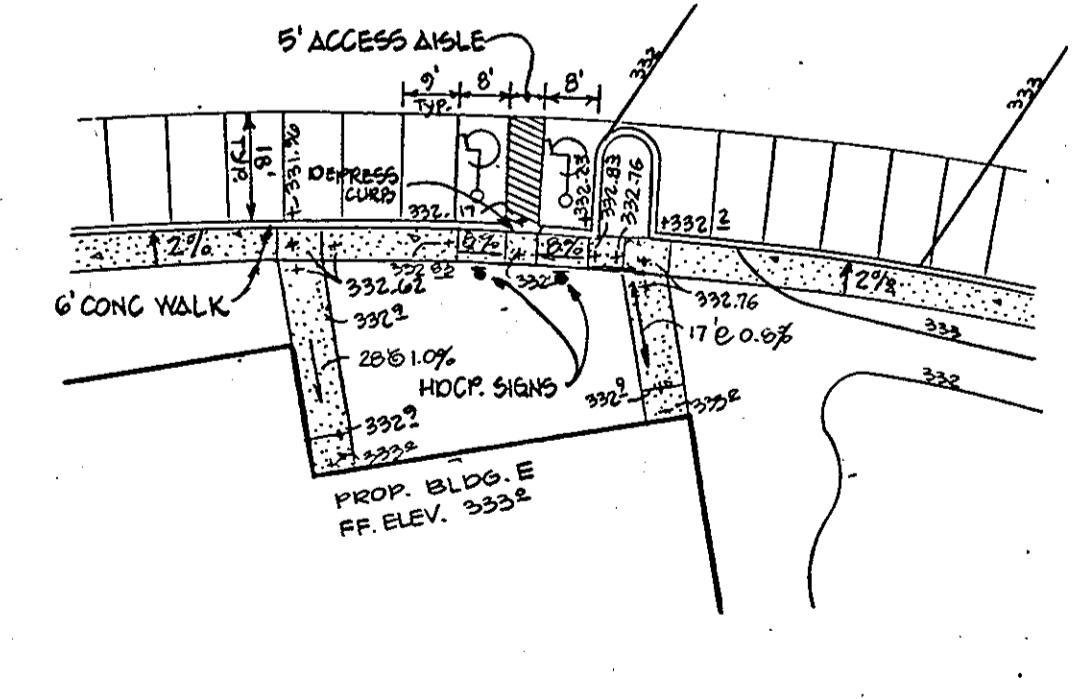
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SCALE: 1" = 30'



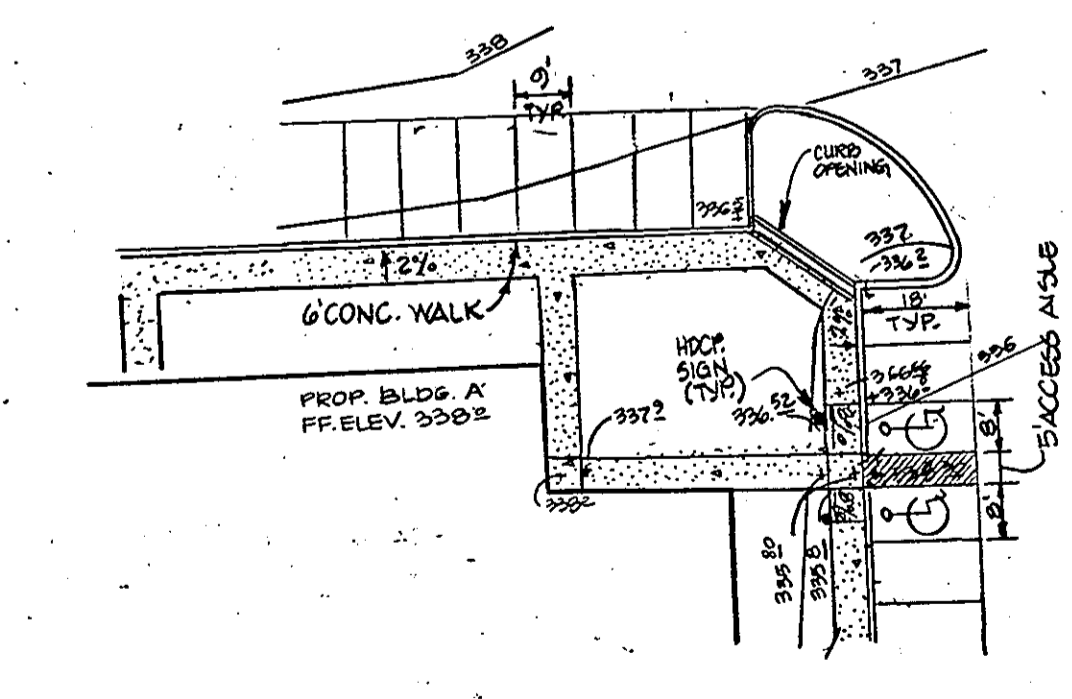
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SCALE: 1" = 30'



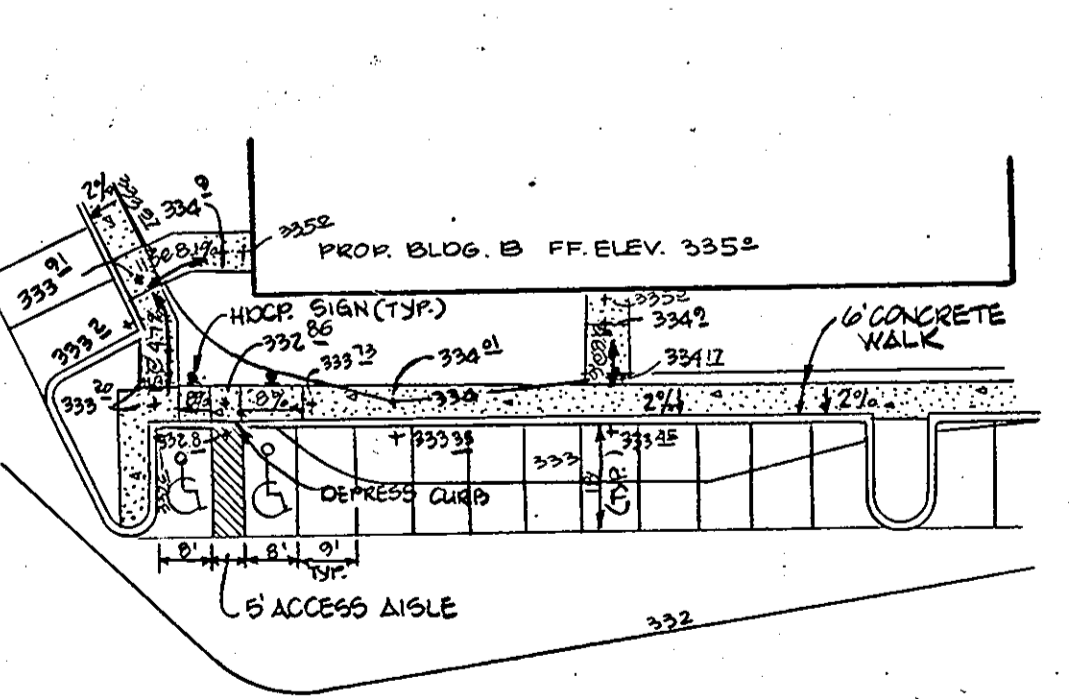
DETAIL RAMP N
SCALE: 1" = 30'



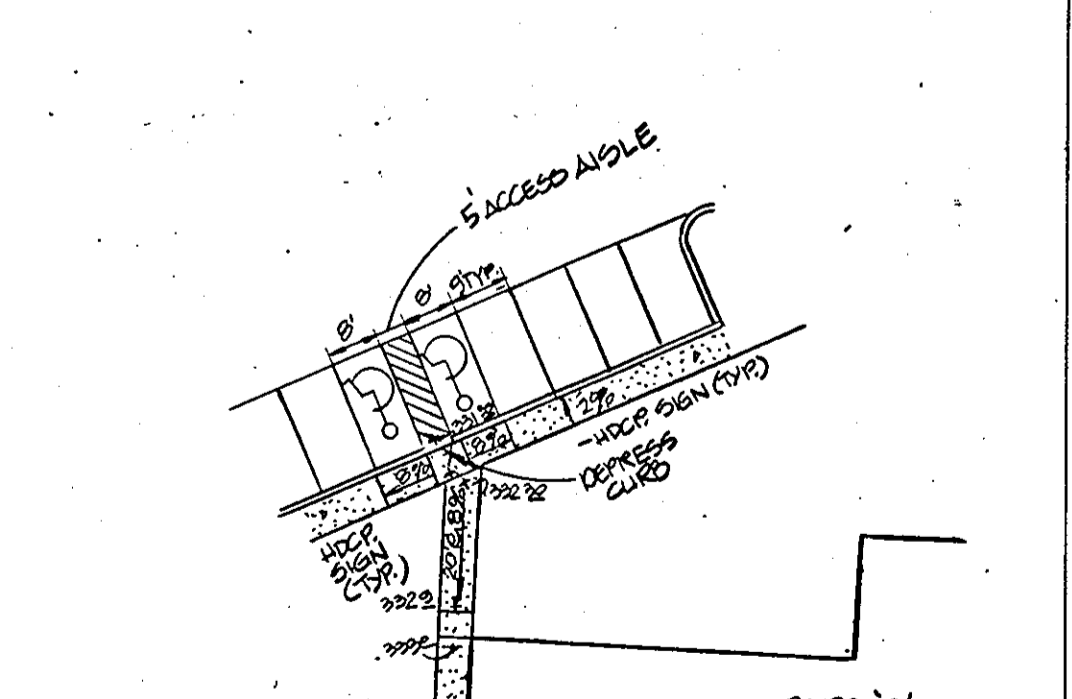
DETAIL RAMP C
SCALE: 1" = 30'



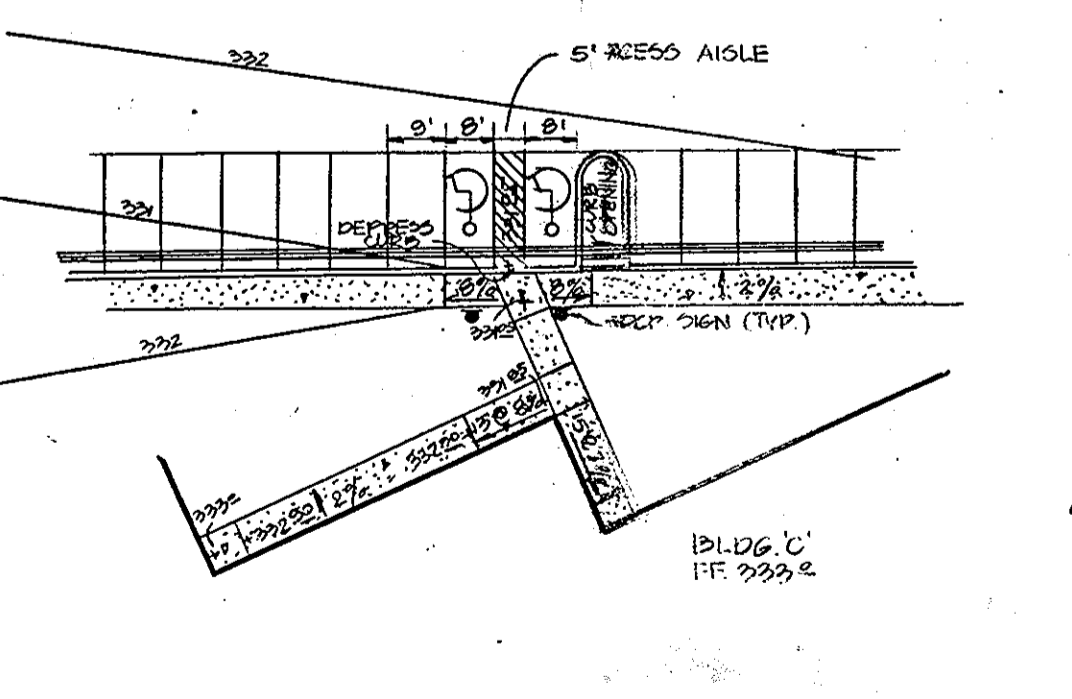
DETAIL RAMP F
SCALE: 1" = 30'



DETAIL RAMP I
SCALE: 1" = 30'



DETAIL RAMP L
SCALE: 1" = 30'



DETAIL RAMP O
SCALE: 1" = 30'

AREA OF SITE: 21.042 AC.
EXISTING ZONING: M-1
PROPERTY REFERENCE: PLAT 17470
EXISTING USE: WAREHOUSE
PROPOSED USE: OFFICE/WAREHOUSE
TOTAL FLOOR AREA: 234,400 S.F. (5.39 AC.)
PARKING PROVIDED: 450 SPACES (INCLUDING 30 HANDICAPPED)
FLOOR AREA RATIO: 5.39 AC./21.042 AC. = 25.62
1. OPEN SPACE: 3.33 AC./21.042 AC. = 15.72%
2. BUILDING COVERAGE: 14.73 AC./21.042 AC. = 69.97%
AREA TO BE DISTURBED: 20.47 AC.
AREA TO VEGETATIVELY STABILIZED: 5.74 AC.
1. BUILDING COVERAGE: 25.62%
TOTAL AREA OF PARKING LOTS: 5.21 AC.
TOTAL AREA OF LANDSCAPED ISLANDS: 4.33 AC.
1. LANDSCAPED ISLANDS AND PARKING: 4.72%

PARKING TABULATION

PARKING REQUIRED:

BUILDING A = 47,200 S.F. 60 OFFICE = 2,800 S.F. 140 EMP. @ 7 P.S./10 EMP. = 140 P.S.
400 WAREHOUSE = 1,500 S.F. / 500 = 300 P.S.
TOTAL = 1,500 P.S.

BUILDING B = 24,400 S.F. 501 OFFICE = 2,200 S.F. 107 EMP. @ 7 P.S./10 EMP. = 107 P.S.
501 WAREHOUSE = 2,200 S.F. / 500 = 440 P.S.
TOTAL = 1,107 P.S.

BUILDING C = 52,000 S.F. 501 OFFICE = 2,400 S.F. 148 EMP. @ 7 P.S./10 EMP. = 148 P.S.
501 WAREHOUSE = 2,400 S.F. / 500 = 480 P.S.
TOTAL = 1,176 P.S.

BUILDING D = 48,400 S.F. 501 OFFICE = 2,400 S.F. 122 EMP. @ 7 P.S./10 EMP. = 122 P.S.
501 WAREHOUSE = 4,400 S.F. / 500 = 880 P.S.
TOTAL = 1,002 P.S.

BUILDING E = 34,400 S.F. 601 OFFICE = 2,400 S.F. 148 EMP. @ 7 P.S./10 EMP. = 148 P.S.
106 WAREHOUSE = 4,400 S.F. / 500 = 880 P.S.
TOTAL = 1,028 P.S.

TOTAL PARKING REQUIRED ALL BUILDINGS: 6,053 P.S.

TOTAL PARKING SPACES PROVIDED: 450 (INCLUDING 30 HANDICAPPED)

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

Joseph M. Helm 5/27/88
U.S. SOIL CONSERVATION SERVICE
DATE

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

Stephen L. Fink 5/27/88
APPROVED: HOWARD SOIL CONSERVATION DISTRICT
DATE

PLAN NUMBER

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

Joan R. Bynum 6-18-88
COUNTY HEALTH OFFICER
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

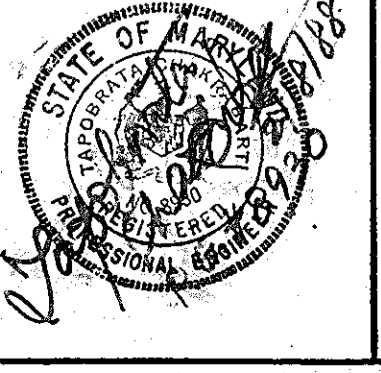
W. J. ... 6-27-88
DIRECTOR
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

James M. ... 6-15-88
DIRECTOR
DATE

William E. ... 6-15-88
CHIEF BUREAU OF ENGINEERING
DATE

GW'S
GEORGE WILLIAM STEPHENS, JR.
AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120



ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT 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 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *George William Stephens, Jr.*
REG. NO. 18930 DATE: 2/18/88

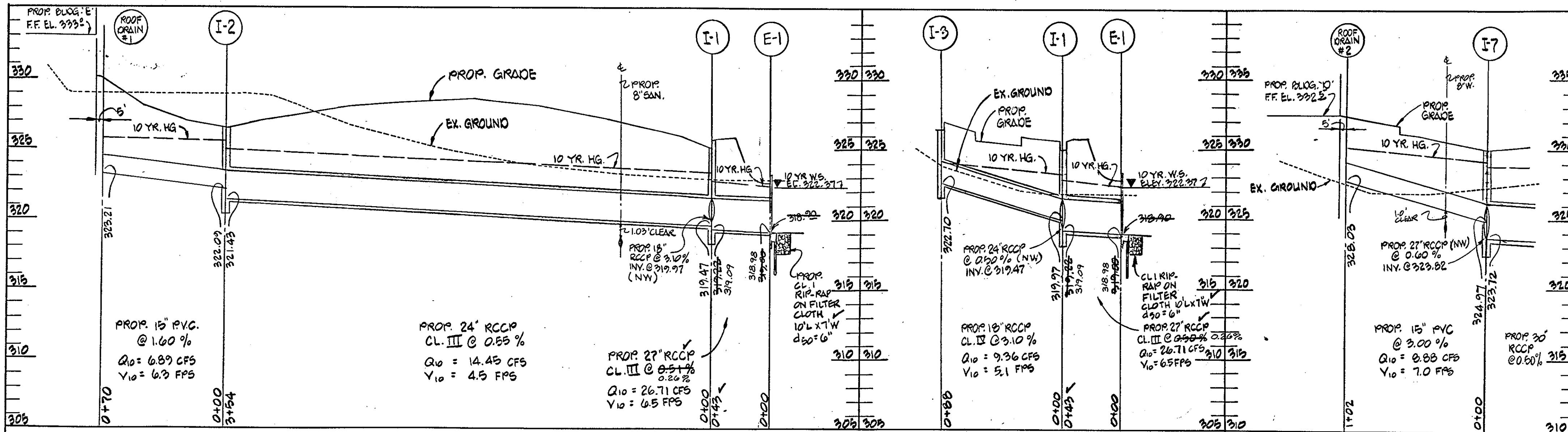
OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
(301) 740-0200

DEVELOPER'S CERTIFICATE
I 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 DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINE "AS-BUILT" OF THE S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

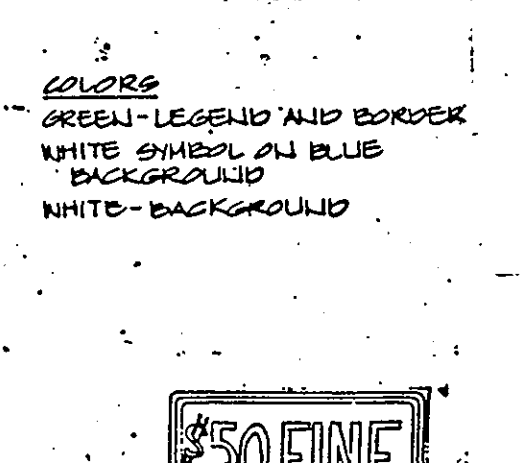
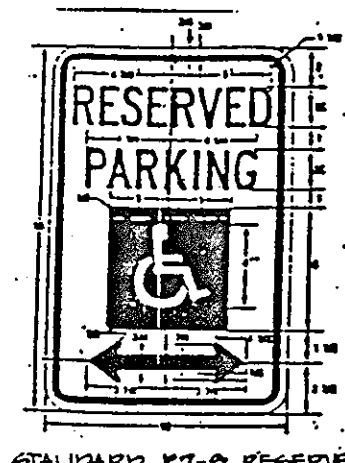
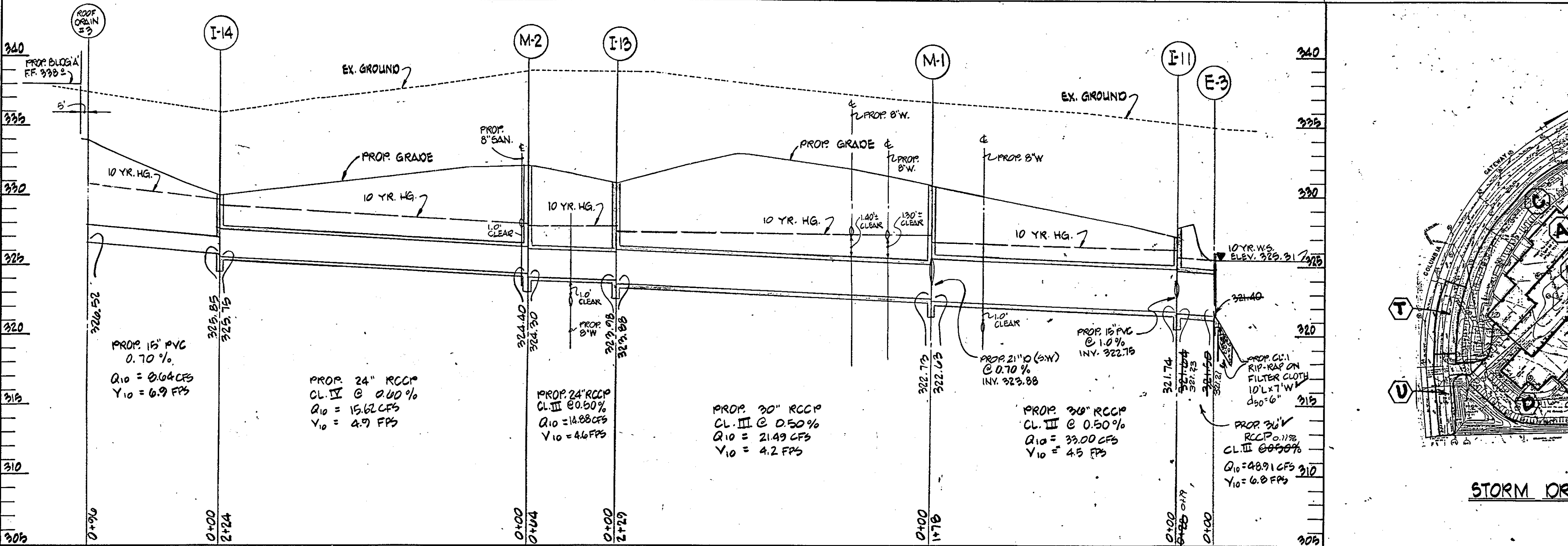
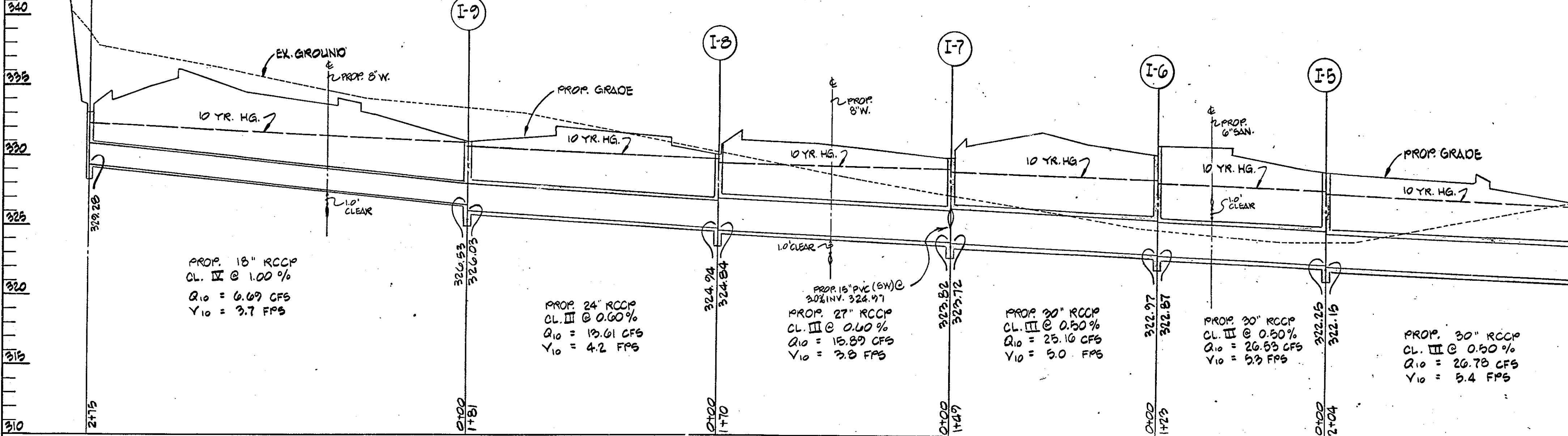
DEVELOPER: *William M. ...* DATE: 6-17-88

DESIGNED: N.B./K.B.
DRAWN: J.W.
CHECKED: M.B.
REVISIONS:
1. Changed Building square footage. Changed water reuse connection to Bldg. A. 6/17/88
2. Changed sewer profile

PROFILES AND DETAILS
FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE: AS SHOWN
PARCEL #587
ELECTION DIST. #6
FEBRUARY 10, 1988
SHEET 2 OF 9
5DP-88-145



STORM DRAIN PROFILES
SCALE: 1"=50' HORIZ.
1"=5' VERT.



RESERVED PARKING SIGN
30 FINE SIGN

- GENERAL NOTES**
- Maximum building height = 50'.
 - All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by Howard Soil Conservation District.
 - Any damage to public right-of-way and/or adjacent properties shall be repaired immediately at the contractor's expense.
 - The contractor shall maintain at least a 2' level bench behind all curb and gutter in all areas.
 - The contractor shall verify all existing utilities to his own satisfaction before starting construction.
 - All slopes shall be 2:1 or flatter.
 - All work shall be done in accordance with Howard County Standard Specifications and details for construction, or as shown on these plans.
 - The contractor shall notify the Gas Telephone Co. and the Gas and Electric Company five days prior to starting work shown on these plans by calling "Gas Utility". Call collect 1-559-0100.
 - For details of signs and signs for the hand-dropped see the Maryland Building Code for the Hand-dropped and sign and as shown herein. See Sheet of "Signs". The contractor shall maintain a minimum of 4' cover over all proposed water lines.
 - All pipe-catch shall be placed on filter cloth.
 - All water main, gas, bonds, caps, etc. shall be buttressed in accordance with Howard County Design Requirements.
 - The contractor shall remove all existing paving, curb and gutter, etc. that may interfere with proposed construction.
 - All utilities installed shall receive full trench connection.
 - All water main, gas, bonds, caps, etc. shall be buttressed in accordance with Howard County Design Requirements.
 - All sidewalks will be 6' wide (see architectural plans for details).
 - The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building, shown on this site development plan. This sewer is regulated under Section 18.122 of the Howard County Code. Each separate and independent sewer connection shall include a standard manhole and other waste prevention devices as required and approved by Howard County. These lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No contract or discharge of the separate and independent sewer system shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and release interior waste lines. The above requirements shall apply to all initial and future occupants or tenants.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 3-17-88

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

APPROVED: *James M. Adams* 5/27/88
U.S. SOIL CONSERVATION SERVICE

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

APPROVED: *Stephen A. Ghule* 5/27/88
HOWARD SOIL CONSERVATION DISTRICT

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

APPROVED: *John Boyle* 6-18-88
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

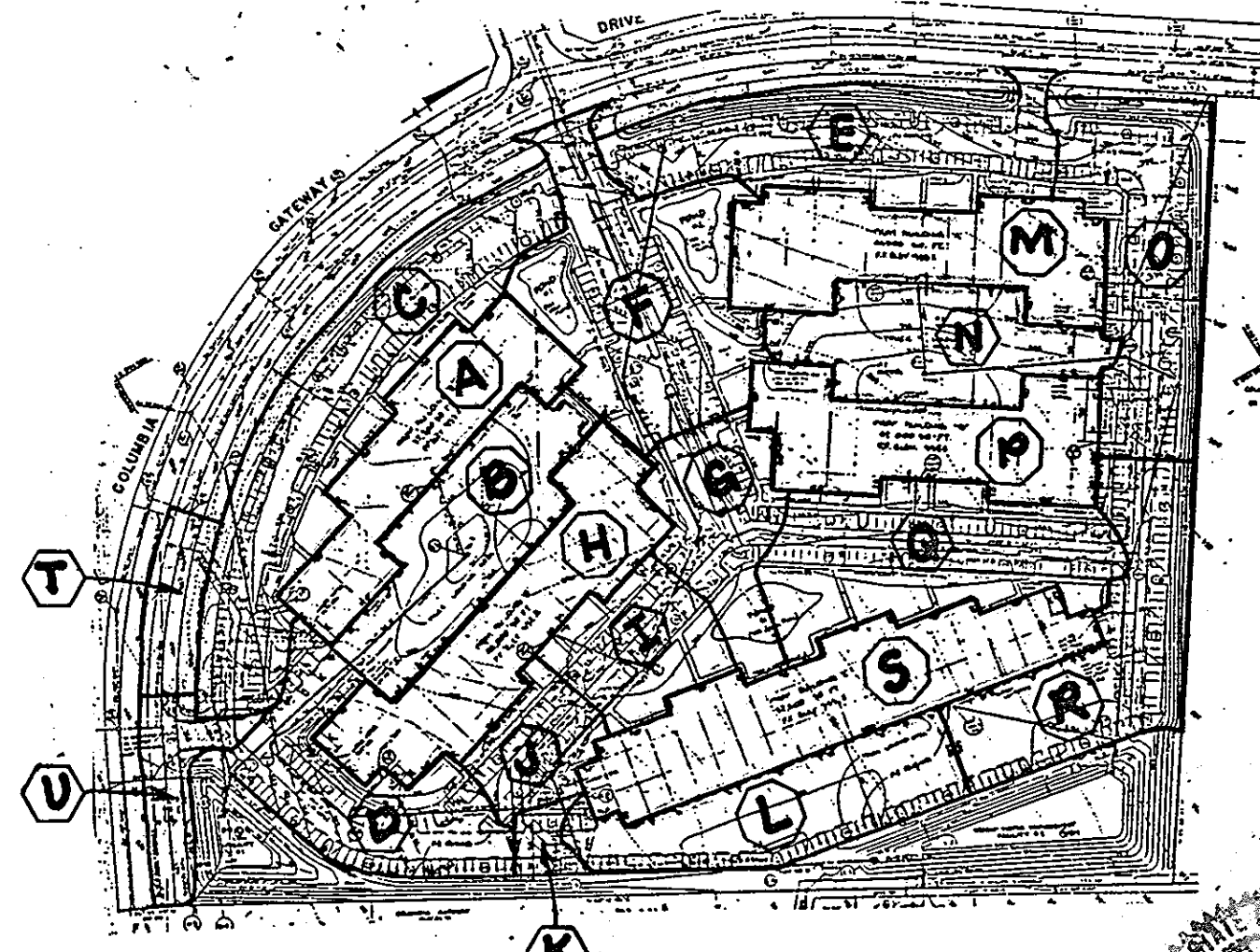
APPROVED: *W.A.H.* 6-27-88
DIRECTOR

APPROVED: *James R. Kelly* 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

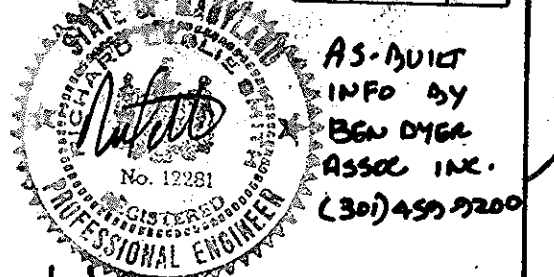
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED: *James P. Lee* 6/15/88
DIRECTOR

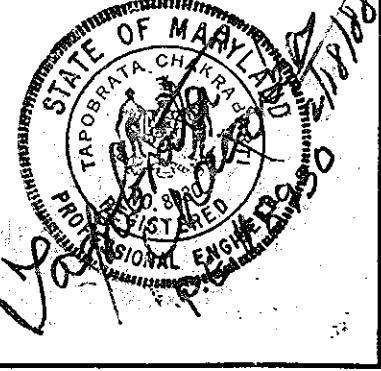
APPROVED: *William S. Ray* 6/15/88
CHIEF BUREAU OF ENGINEERING



STORM DRAIN DRAINAGE AREA MAP
SCALE: 1"=200'



GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
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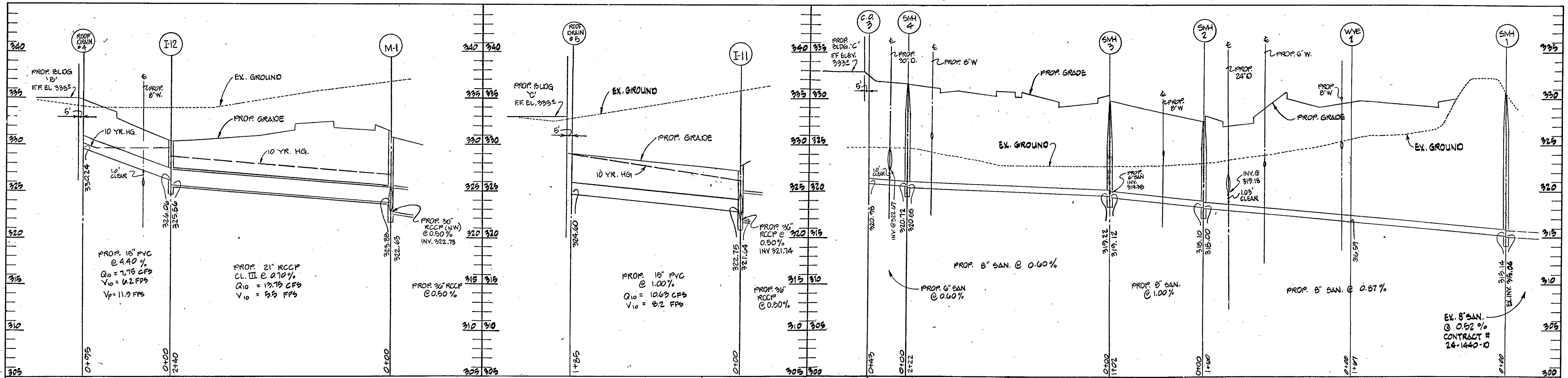
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ENGINEER: *V. Babalata Chatterjee*
REG. NO. 8920 TAPDRARA CHARRAKHAI DATE: 2/18/88

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
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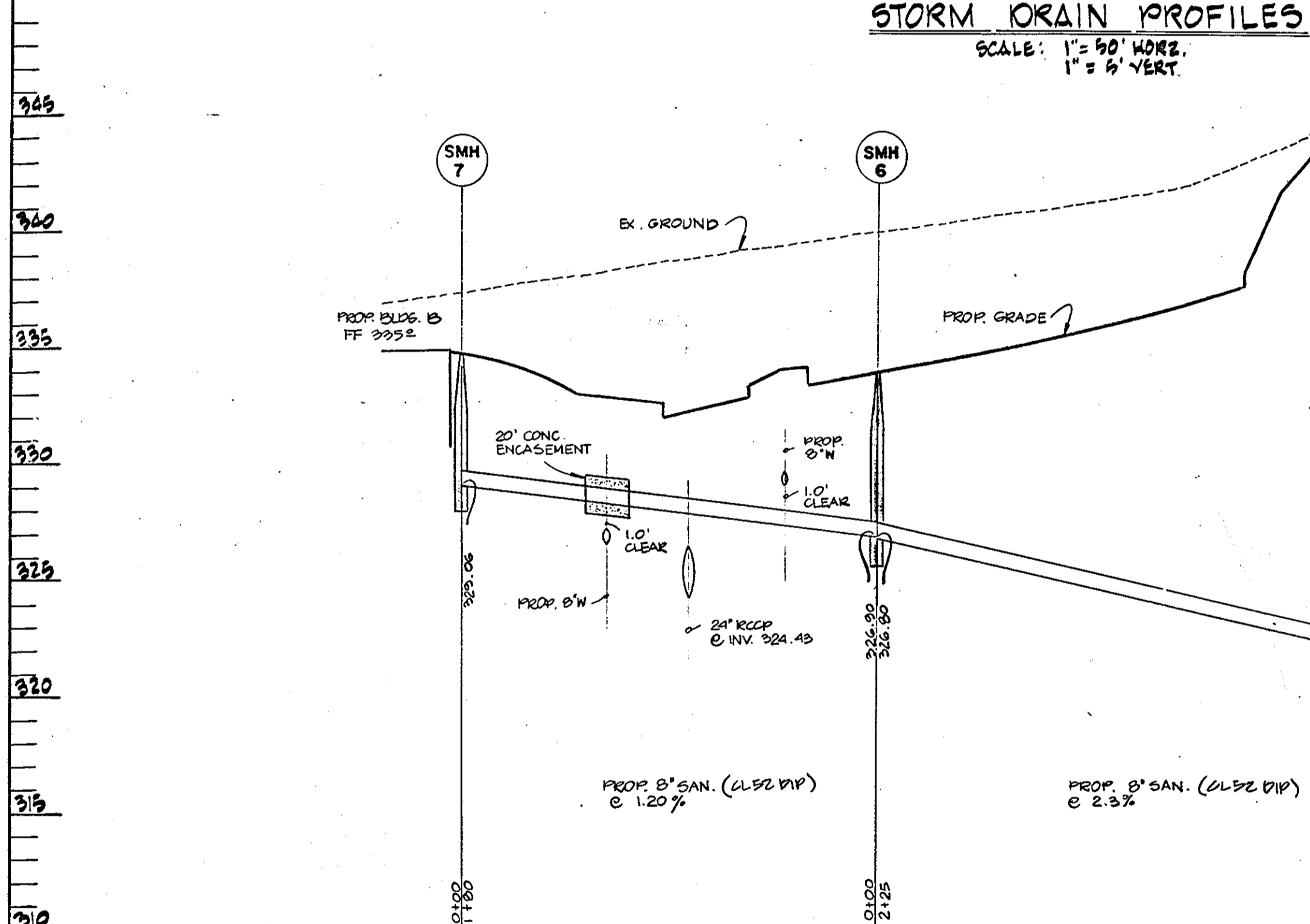
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DEVELOPER: *William M. Lee*
DATE: 5-17-87

DESIGNED BY: *K.B.*
DRAWN BY: *K.B.*
CHECKED BY: *N.B.*
REVISIONS

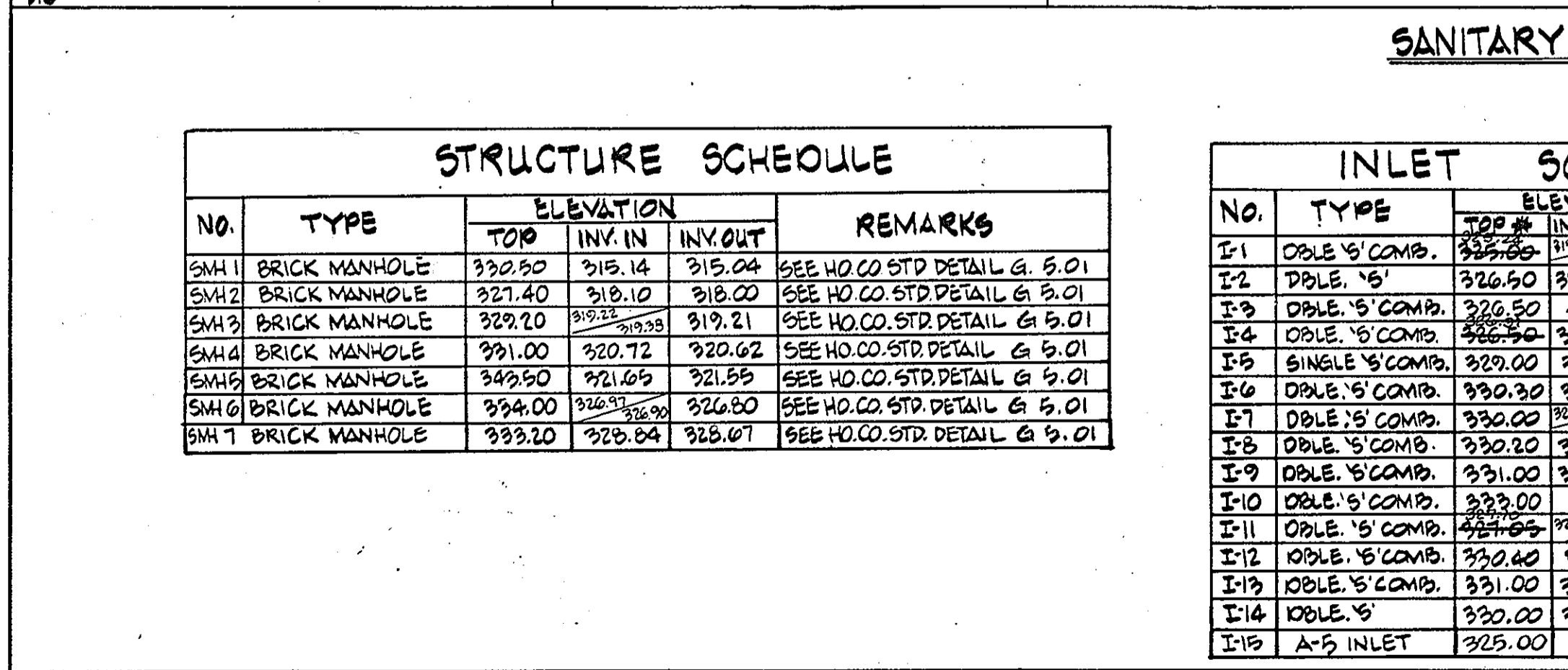
PROFILES AND DETAILS FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE: AS SHOWN
PARCEL # 587
ELECTION DIST. 6
FEBRUARY 16 1988
SHEET 2 OF 2
5DP-88-145



STORM DRAIN PROFILES
SCALE: 1" = 90' HORIZ.
1" = 5' VERT.



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



SANITARY SEWER PROFILES
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

STRUCTURE SCHEDULE

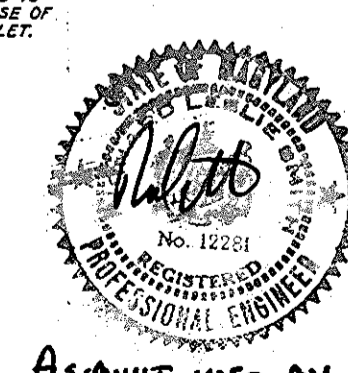
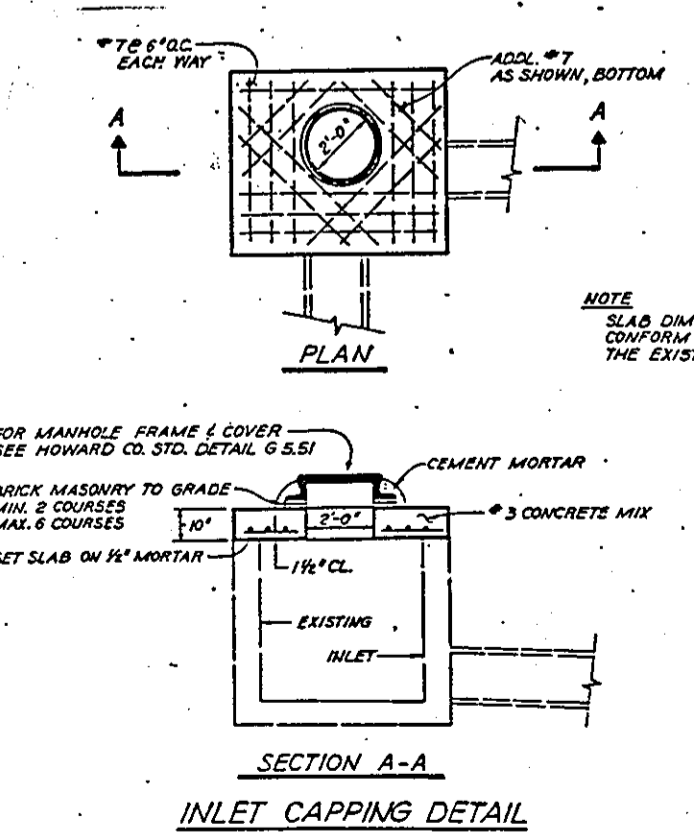
NO.	TYPE	ELEVATION			REMARKS
		TOP	INV. IN	INV. OUT	
SMH 1	BRICK MANHOLE	322.50	315.14	315.04	SEE HO. CO. STD. DETAIL G-5.01
SMH 2	BRICK MANHOLE	327.40	318.10	318.00	SEE HO. CO. STD. DETAIL G-5.01
SMH 3	BRICK MANHOLE	327.20	319.21	319.21	SEE HO. CO. STD. DETAIL G-5.01
SMH 4	BRICK MANHOLE	331.00	320.72	320.62	SEE HO. CO. STD. DETAIL G-5.01
SMH 5	BRICK MANHOLE	329.50	321.65	321.55	SEE HO. CO. STD. DETAIL G-5.01
SMH 6	BRICK MANHOLE	334.00	326.33	326.20	SEE HO. CO. STD. DETAIL G-5.01
SMH 7	BRICK MANHOLE	333.20	328.84	328.67	SEE HO. CO. STD. DETAIL G-5.01

INLET SCHEDULE

NO.	TYPE	ELEVATION			REMARKS
		TOP	INV. IN	INV. OUT	
I-1	DOUBLE 'S' COMP.	322.50	315.25	315.25	SEE HO. CO. STD. DETAIL G-5.04
I-2	DOUBLE 'S' COMP.	326.50	322.09	321.49	SEE HO. CO. STD. DETAIL G-5.04
I-3	DOUBLE 'S' COMP.	322.50	322.70	322.70	SEE HO. CO. STD. DETAIL G-5.04
I-4	DOUBLE 'S' COMP.	326.50	321.19	321.19	SEE HO. CO. STD. DETAIL G-5.04
I-5	SINGLE 'S' COMP.	323.00	322.25	322.15	SEE HO. CO. STD. DETAIL G-5.04
I-6	DOUBLE 'S' COMP.	330.00	322.97	322.87	SEE HO. CO. STD. DETAIL G-5.04
I-7	DOUBLE 'S' COMP.	330.00	322.97	322.87	SEE HO. CO. STD. DETAIL G-5.04
I-8	DOUBLE 'S' COMP.	330.00	324.94	324.84	SEE HO. CO. STD. DETAIL G-5.04
I-9	DOUBLE 'S' COMP.	331.00	326.53	326.03	SEE HO. CO. STD. DETAIL G-5.04
I-10	DOUBLE 'S' COMP.	323.00	323.25	323.25	SEE HO. CO. STD. DETAIL G-5.04
I-11	DOUBLE 'S' COMP.	327.40	322.71	322.61	SEE HO. CO. STD. DETAIL G-5.04
I-12	DOUBLE 'S' COMP.	330.00	322.63	322.63	SEE HO. CO. STD. DETAIL G-5.04
I-13	DOUBLE 'S' COMP.	331.00	323.92	323.83	SEE HO. CO. STD. DETAIL G-5.04
I-14	DOUBLE 'S' COMP.	330.00	325.85	325.75	SEE HO. CO. STD. DETAIL G-5.04
I-15	A-5 INLET	325.00	---	324.22	SEE HO. CO. STD. DETAIL G-5.04

STRUCTURE SCHEDULE

NO.	TYPE	ELEVATION			REMARKS
		TOP	INV. IN	INV. OUT	
E-1	TYPE 'A' HEADWALL	---	318.90	318.90	SEE HO. CO. STD. DETAIL G-5.11
E-2	TYPE 'A' HEADWALL	---	320.92	320.92	SEE HO. CO. STD. DETAIL G-5.11
E-3	TYPE 'A' HEADWALL	---	321.40	321.40	SEE HO. CO. STD. DETAIL G-5.11
M-1	BRICK MANHOLE	331.17	322.63	322.63	SEE HO. CO. STD. DETAIL G-5.01
M-2	BRICK MANHOLE	322.21	324.40	324.30	SEE HO. CO. STD. DETAIL G-5.01
M-4	MANHOLE EX. INLET	323.75	322.12	319.92	SEE DETAIL THIS SHEET



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 3-17-88

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT & MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
John M. Helm 5/21/88
U.S. SOIL CONSERVATION SERVICE DATE
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Shub 4/27/88
APPROVED: HOWARD SOIL CONSERVATION DISTRICT DATE
PLAN NUMBER

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
John Zylun 6-18-88
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
W.M. Carver, Jr. 6-27-88
DIRECTOR DATE
James H. Smith 6/22/88
DEPUTY DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
James H. Smith 6/15/88
DIRECTOR DATE
William M. Carver, Jr. 6-15-88
CHIEF BUREAU OF ENGINEERING DATE

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
(301) 825-8120

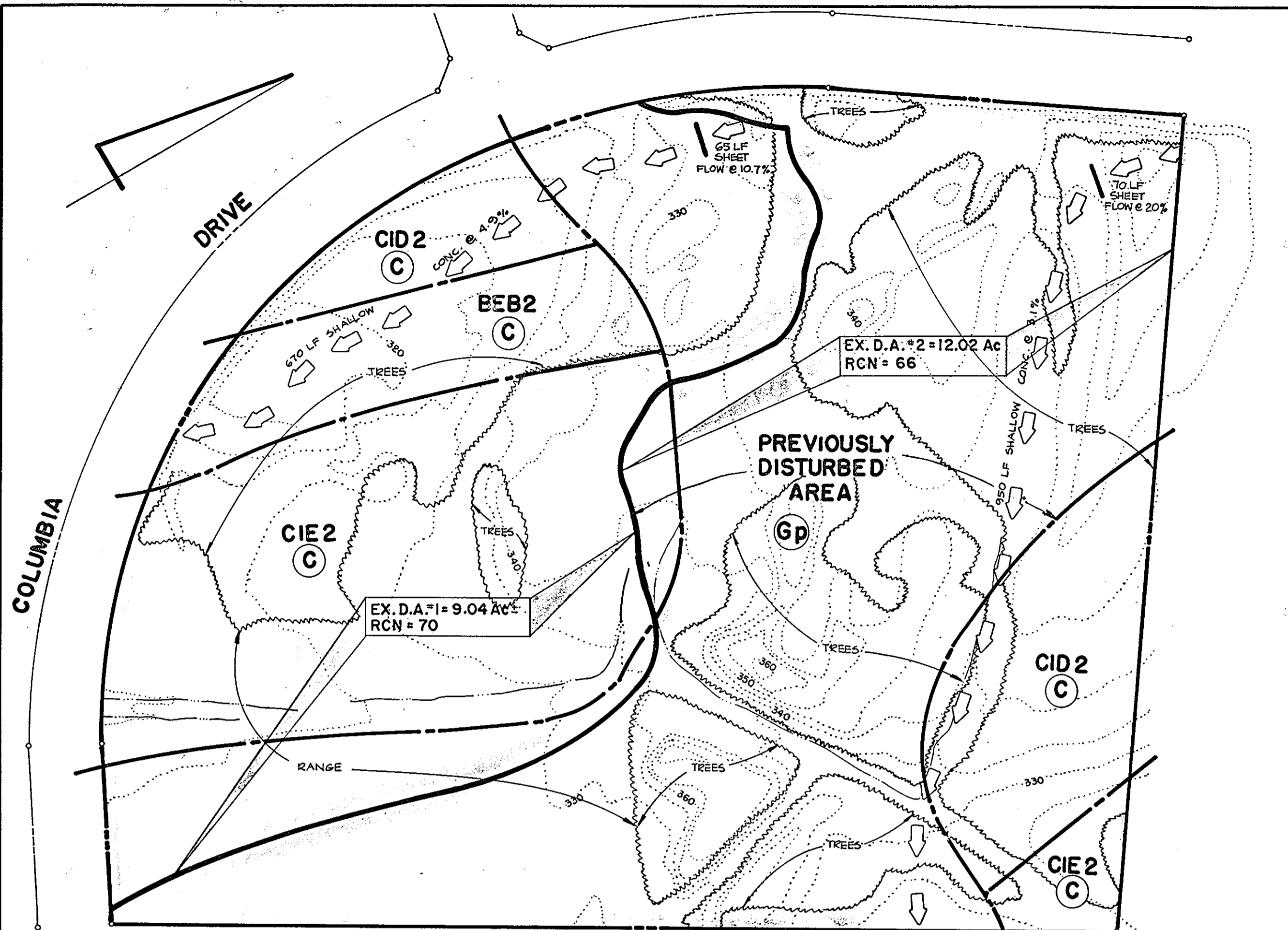
ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS THIS PLAN WAS 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
ENGINEER: *William M. Carver, Jr.*
REG. NO. 18920 DATE: 4/18/88

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
(301) 740-0200

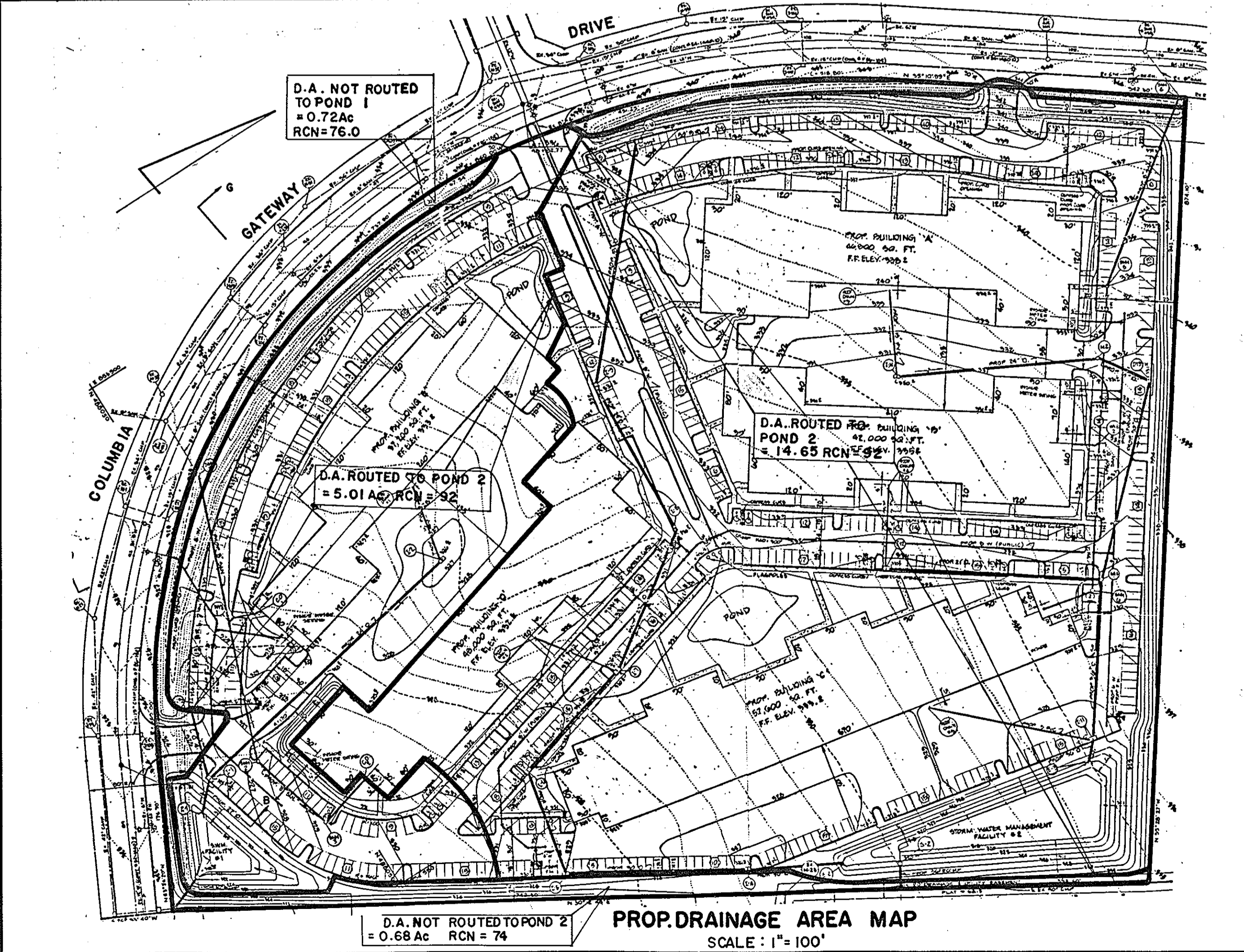
DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED PROGRAM FOR THE CONTROL OF SEDIMENT AND 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINE "AS-BUILT" OF THE S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
DEVELOPER: *William M. Carver, Jr.* DATE: 5-17-88

DESIGNED: K.B.
DRAWN: K.B.
CHECKED: N.B.

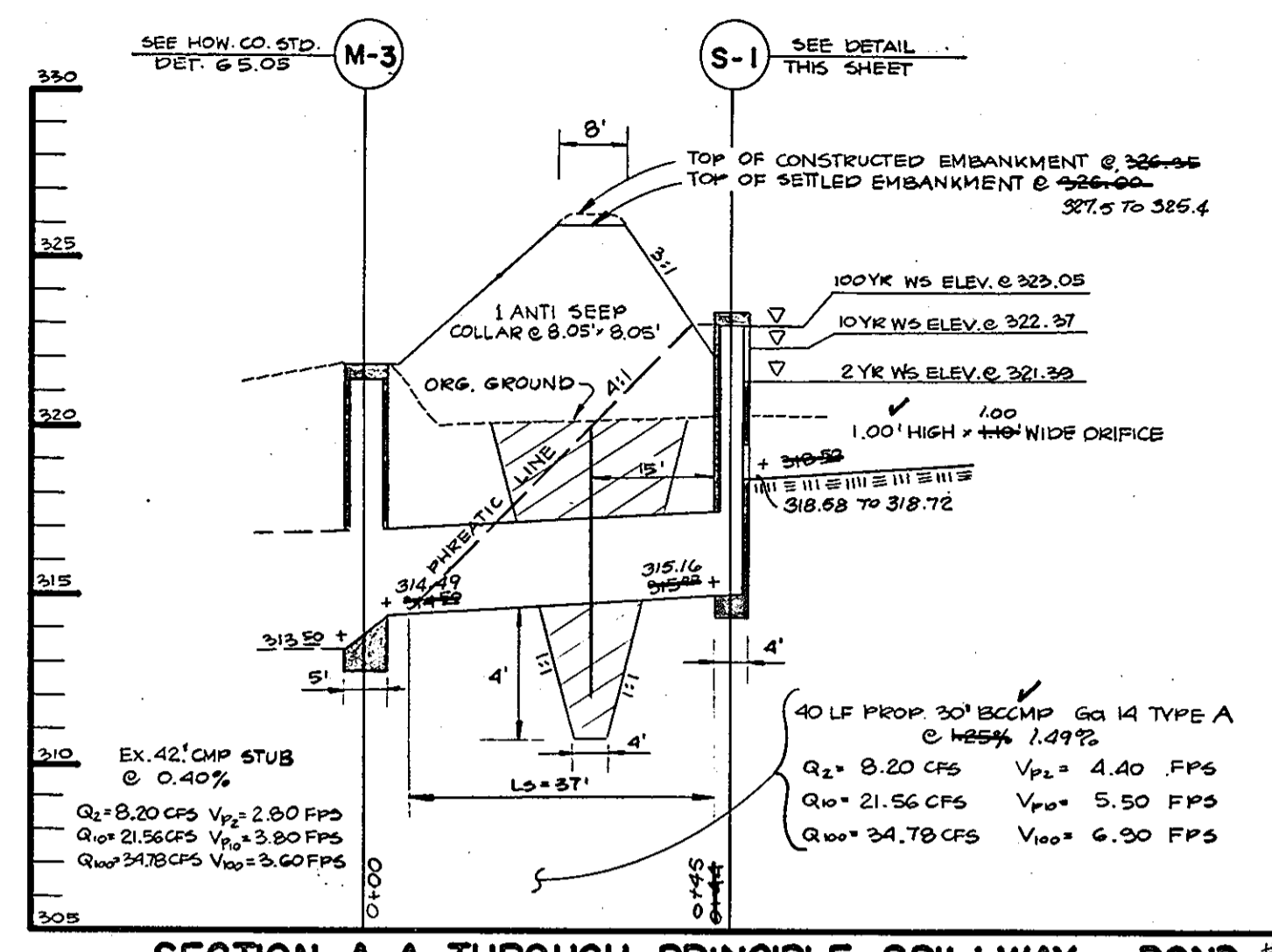
PROFILES AND DETAILS FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE: AS SHOWN
PARCEL #587
ELECTION DIST. #6
FEBRUARY 16, 1988
SHEET 4 OF 7
SDP-85-145



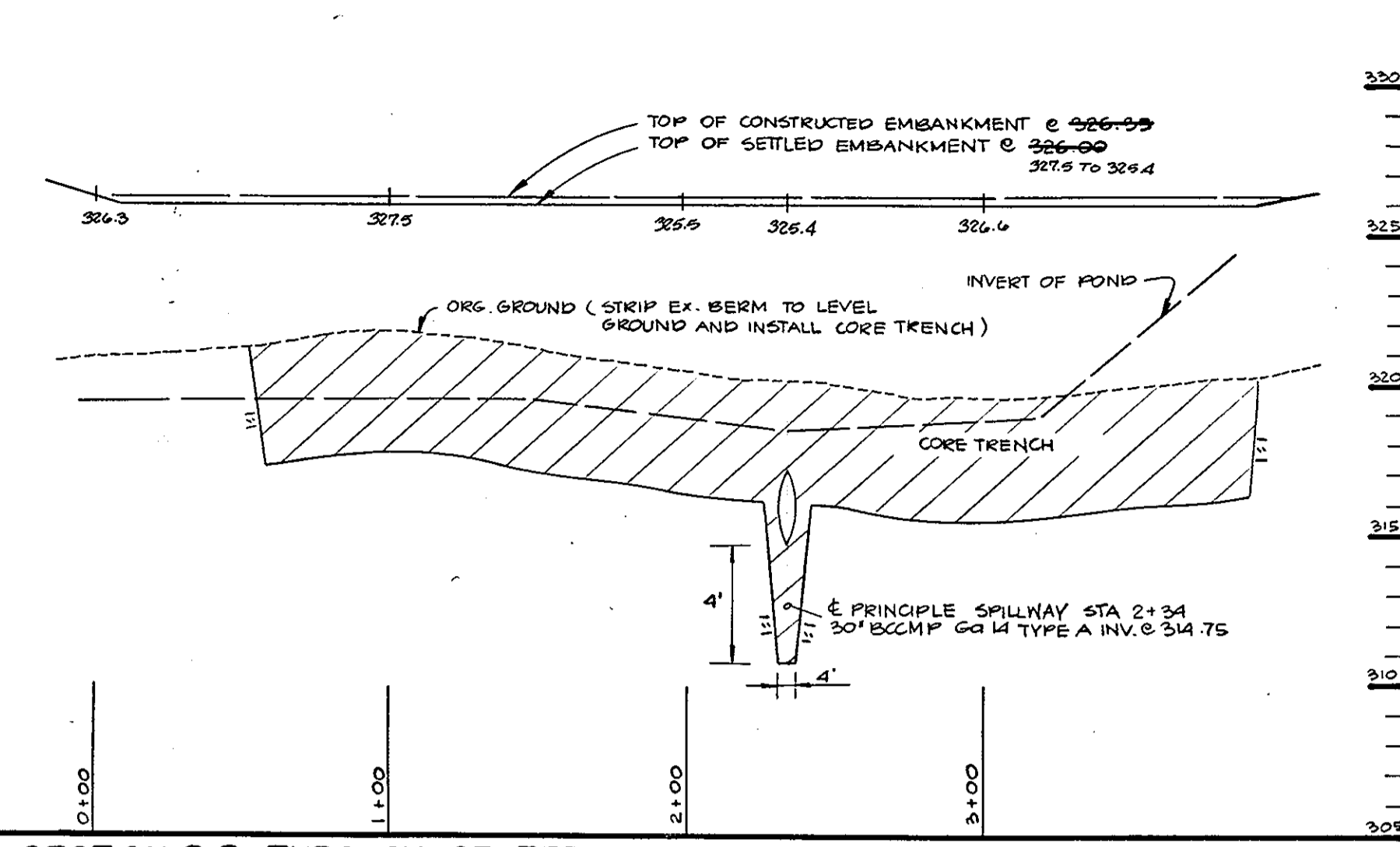
EX. DRAINAGE AREA MAP
SCALE: 1" = 100'



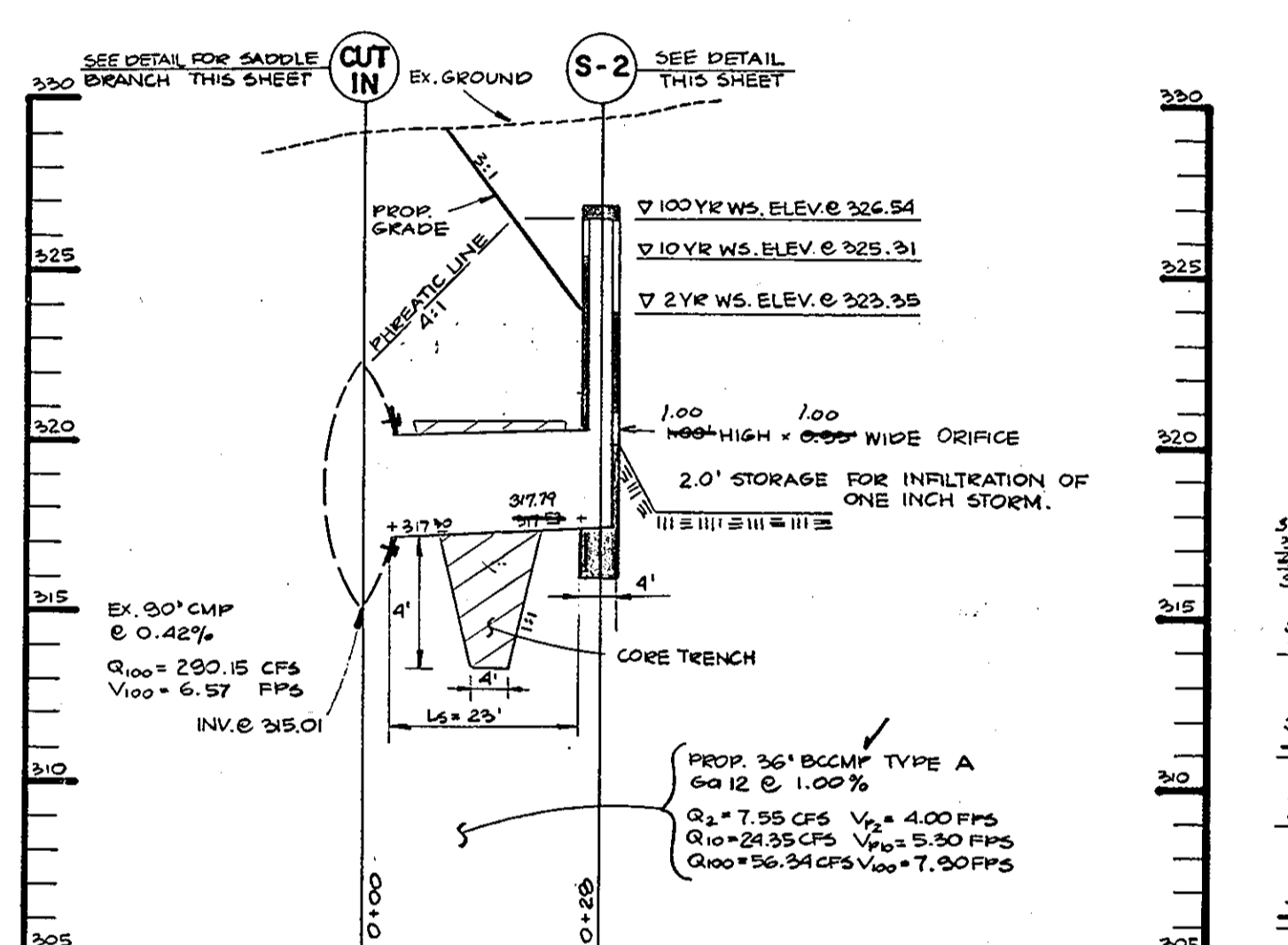
PROP. DRAINAGE AREA MAP
SCALE: 1" = 100'



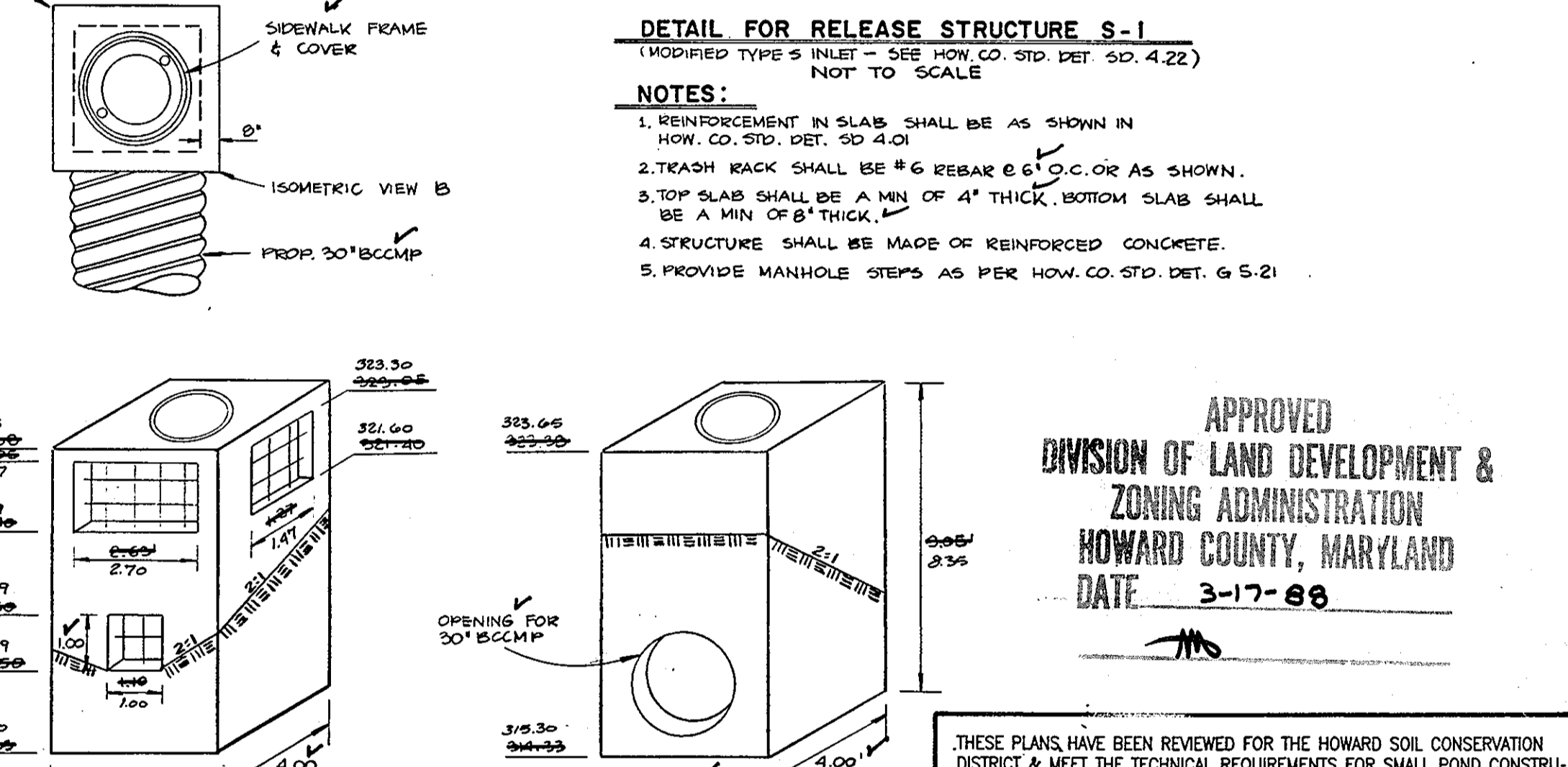
SECTION A-A THROUGH PRINCIPLE SPILLWAY POND #1
SCALE: HORZ. 1" = 20' VERT. 1" = 5'



SECTION B-B THROUGH CENTERLINE OF EMBANKMENT POND #1
SCALE: HORZ. 1" = 50' VERT. 1" = 5'



SECTION C-C THROUGH PRINCIPLE SPILLWAY POND #2
SCALE: HORZ. 1" = 20' VERT. 1" = 5'



DETAIL FOR RELEASE STRUCTURE S-1
(MODIFIED TYPE 5 INLET - SEE HOW CO. STD. DET. SD. 4.22)
NOT TO SCALE

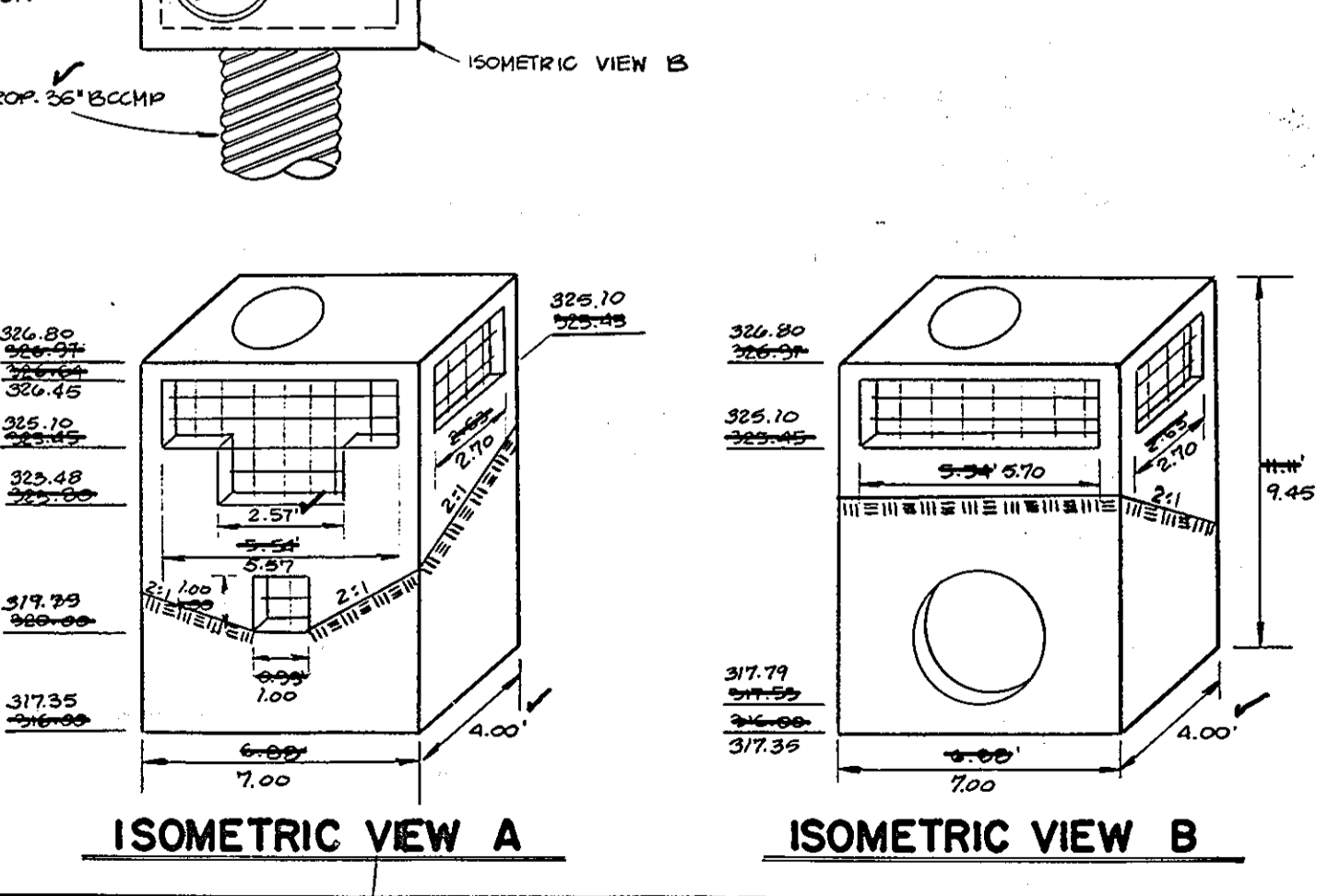
NOTES:

1. REINFORCEMENT IN SLABS SHALL BE AS SHOWN IN HOW. CO. STD. DET. SD. 4.01
2. TRASH RACK SHALL BE #6 REBAR @ 6" O.C. OR AS SHOWN.
3. TOP SLAB SHALL BE A MIN. OF 4" THICK. BOTTOM SLAB SHALL BE A MIN. OF 8" THICK.
4. STRUCTURE SHALL BE MADE OF REINFORCED CONCRETE.
5. PROVIDE MANHOLE STEPS AS PER HOW. CO. STD. DET. G 5.21

DETAIL RELEASE STRUCTURE S-2
(MODIFIED DBL. 5" INLET - HOW. CO. STD. DET. SD. 4.23)
NO SCALE

NOTES:

1. REINFORCEMENT IN SLABS SHALL BE AS SHOWN IN HOW. CO. STD. DET. PLATE SD. 4.01
2. TRASH RACK SHALL BE #6 REBAR @ 6" O.C. OR AS SHOWN.
3. TOP SLAB SHALL BE A MIN. OF 4" THICK. BOTTOM SLAB SHALL BE A MIN. OF 8" THICK.
4. STRUCTURE SHALL BE MADE OF REINFORCED CONCRETE.
5. PROVIDE MANHOLE STEPS AS PER HOW. CO. STD. DET. G 5.21



SADDLE BRANCH
NO SCALE

* ALL CONNECTIONS TO BE GALVANIZED AND BITUMINOUS COATED.

AS-BUILT DATE OF SURVEY: 3-25-91

7/14/91
AS-BUILT INFO BY
BEN DYGA ASSOC. INC.
(301) 459-9200

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 3-17-88

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

APPROVED: *James M. DeLoach* 5/27/88
US. SOIL CONSERVATION SERVICE

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

APPROVED: *Stephen L. Galt* 5/27/88
HOWARD SOIL CONSERVATION DISTRICT

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

APPROVED: *Joan A. Galt* 6-18-88
COUNTY HEALTH OFFICER

APPROVED: *Arbun* 6-27-88
DIRECTOR

APPROVED: *James S. Heath* 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED: *James P. Law* 6/15/88
DIRECTOR

APPROVED: *James P. Law* 6/15/88
CHIEF BUREAU OF ENGINEERING

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
(301) 825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT 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 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
ENGINEER: *Vijaykrishna Chandra*
REG. NO. 12920 DATE: 5/18/88

OWNER / DEVELOPER
**COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE ASSOCIATES**
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
(301) 740-0200

DEVELOPER'S CERTIFICATE
I 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 DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINE "AS-BUILT" OF THE S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
DEVELOPER: *Carlton M. Carver* DATE: 5/12/88

DESIGNED: N.B.
DRAWN: J.W.
CHECKED: N.B.

STORM WATER MANAGEMENT PROFILES DETAILS
FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE: AS SHOWN
PARCEL #587
ELECTION DIST. #6
FEBRUARY 1988
SHEET 2 OF 2
SDP-88-145

CONSTRUCTION SPECIFICATIONS

I. **SITE PREPARATION**
The fill area and borrow area shall be cleared and grubbed to remove all trees, vegetation, rocks and other objectionable material. The topsoil from the embankment area and borrow area shall be stored and stockpiled. The topsoil shall be spread on the completed fill area.

II. **LAUNCH PILE**
A) **FILL MATERIAL** shall be obtained from on-site under the supervision of a soils engineer. It shall be free from roots, stumps, wood rubbish, oversized stones from other objectionable material. Fill areas shall be constructed to the elevation shown on the plan to allow for anticipated settlement.
B) **PLACEMENT:** Areas on which fill will be placed shall be scarified prior to placement of fill. Fill materials shall be placed in layers 6" thick maximum (before compaction) and shall be continuous over the entire width of fill. The most porous material shall be placed in areas not adjacent to ponded water.
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 compacted to the specified density. Fill material shall contain sufficient moisture so that the required degree of compaction can be obtained with the equipment used.
D) **CORE TESTS** shall be made of 6" or 8" material compacted to 95% of A.A.S.T.M. 99 density.

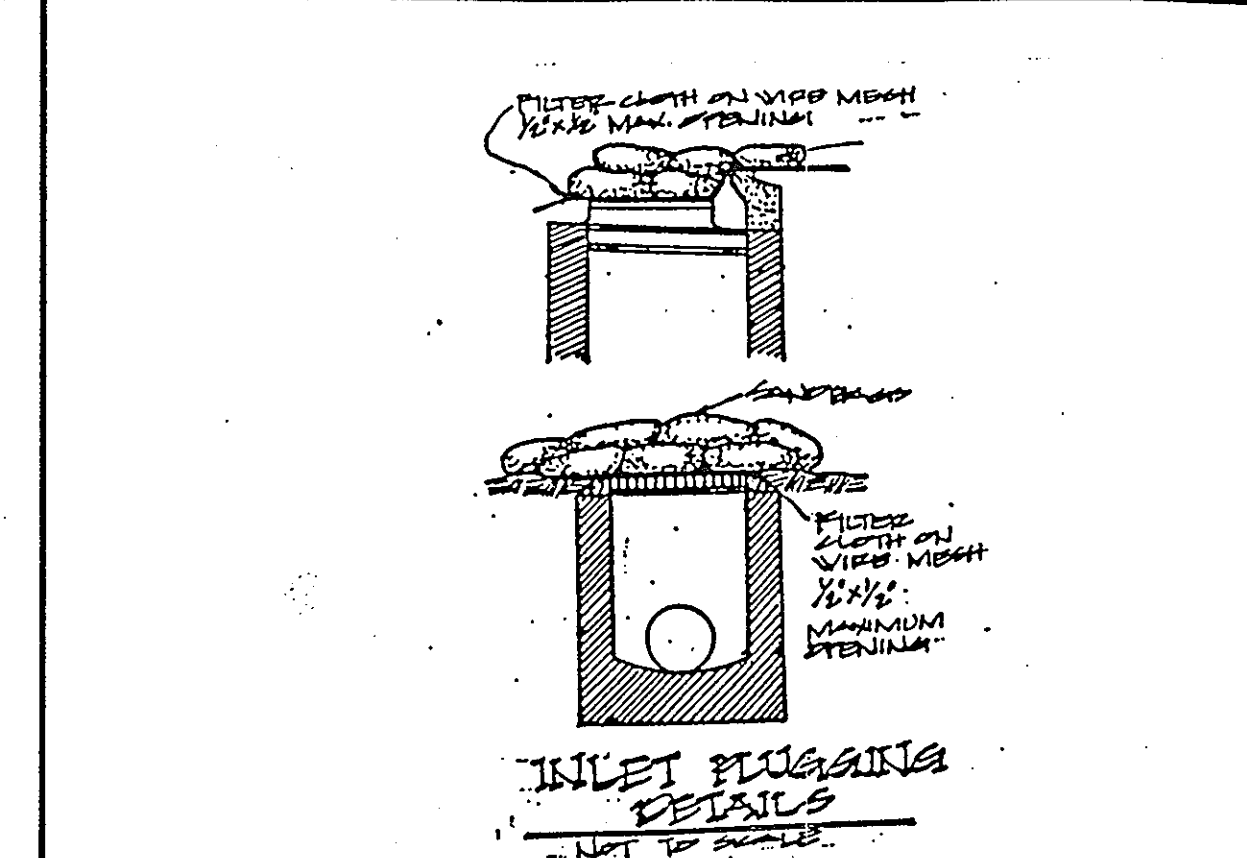
III. **STRUCTURAL DETAILS**
Backfill material shall be the type and quality specified for the adjoining fill material. The fill shall be placed in horizontal layers 6" thick maximum and compacted by hand tamping or manually directed power tamper or plate vibrators. At no time during backfilling operations shall driven equipment be allowed to operate any closer than four feet measured horizontally to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of 24" or greater over the structure or pipe. Materials shall fill completely all spaces under and adjacent to newly installed pipe.

IV. **CONCRETE**
Concrete shall meet the minimum requirements set forth in the Maryland State Highway Administration "Specifications for Construction and Materials" January 1992 Section 518.06 - "Portland Cement Concrete Mixtures", Mix No. 3 Reinforcing steel shall be A.S.T.M. A 615, Grade 60.

V. **STORM WATER MANAGEMENT FACILITY** will be stabilized with "Permanent Slope Seeding" as follows:
After spreading 4" topsoil seed with a mixture of 30% inoculated crown vetch and 70% Kentucky 31 tall fescue applied at a rate of 60 lbs./Ac., 10-20-20 fertilizer shall be applied at a rate of 25 lbs./1000 square feet, lime at a rate of 92 lbs./1000 square feet, each area with unweathered small stone at a rate of 1.5 lb./Ac., another with rapid curing asphalt (R.C.-70, R.C.-1250 or R.C.-800) at a rate of 0.4 Gal./Sq. Ft.

VI. **PIPE COLLARS**
30 A.C.M.P. Type A - Pond #1 36" B.C.M.P. Type A - Pond #2

A. **Construction Detail**
1. Materials (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of A.S.T.M. Specification for pipe with protective coating bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.



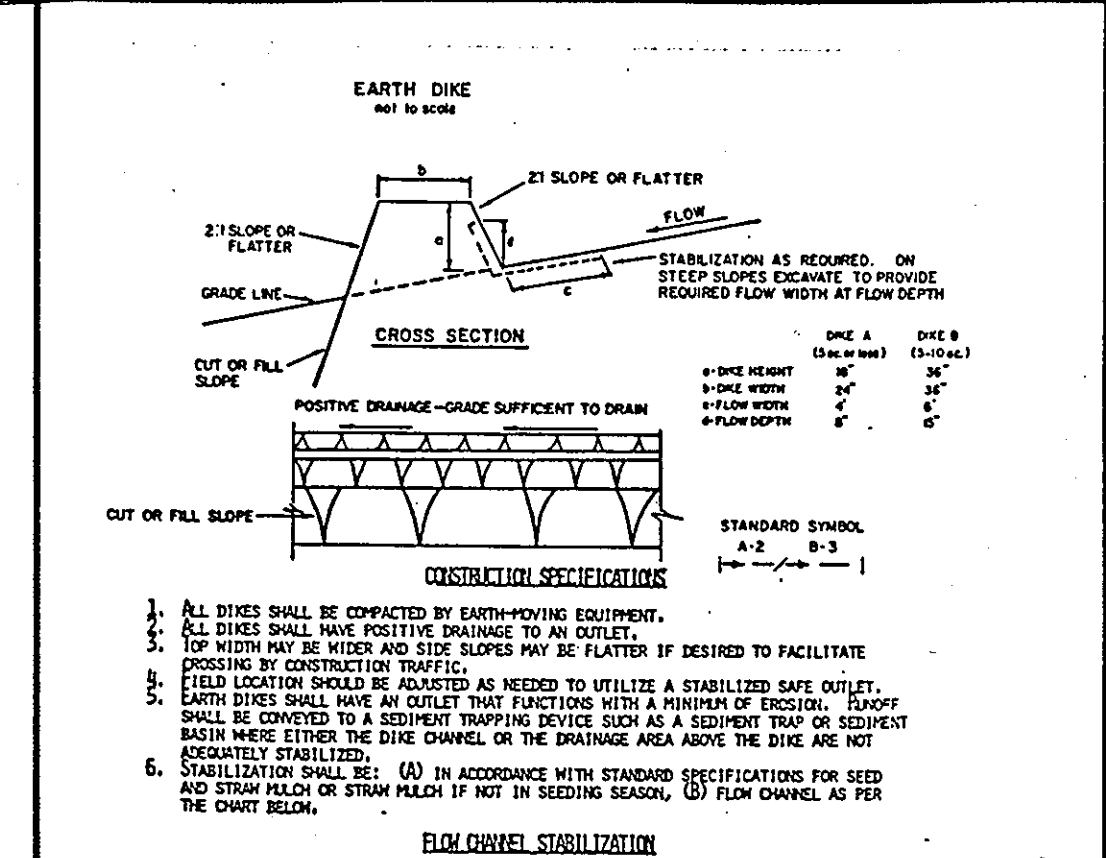
CONSTRUCTION SPECIFICATIONS

1. ALL DISES SHALL BE COVERED BY EARTH-ORIENTED EQUIPMENT.
2. ALL DISES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE NARROW AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FILTER CLOTH SHALL BE PLACED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DISES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. FLOPPY SHALL BE COVERED TO A SEEDING TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WITHIN THE DISE CHANNEL OR THE DRAINAGE AREA ABOVE THE DISE ARE NOT ESSENTIALLY STABILIZED.
6. STABILIZATION SHALL BE: (a) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW PILES IF NOT IN SEEDING SEASON, (b) FLOW CHANNEL, OR (c) THE DISE BELOW.

PLAN CHANNEL STABILIZATION

TYPE OF CHANNEL	CHANNEL	DISE A	DISE B
1	5-3-0	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5-0	SEED AND STRAW MULCH	SEED USING LIME OR EXCESSIVE SOIL 2" STONE
3	5.1-8-0	SEED WITH LIME, OR SOIL 2" STONE	LIME R.P.-R.P. 4-8"
4	8.1-2-0	LIME R.P.-R.P. 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES THICKNESS AS SHOWN ON THE PLAN WITH CONSTRUCTION EQUIPMENT.
B. R.P.-R.P. TO BE 4-8 INCHES IN A LAYER AT LEAST 2 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. PROTECTIVE EQUIPMENT CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
D. PHYSICAL INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



CONSTRUCTION SPECIFICATIONS

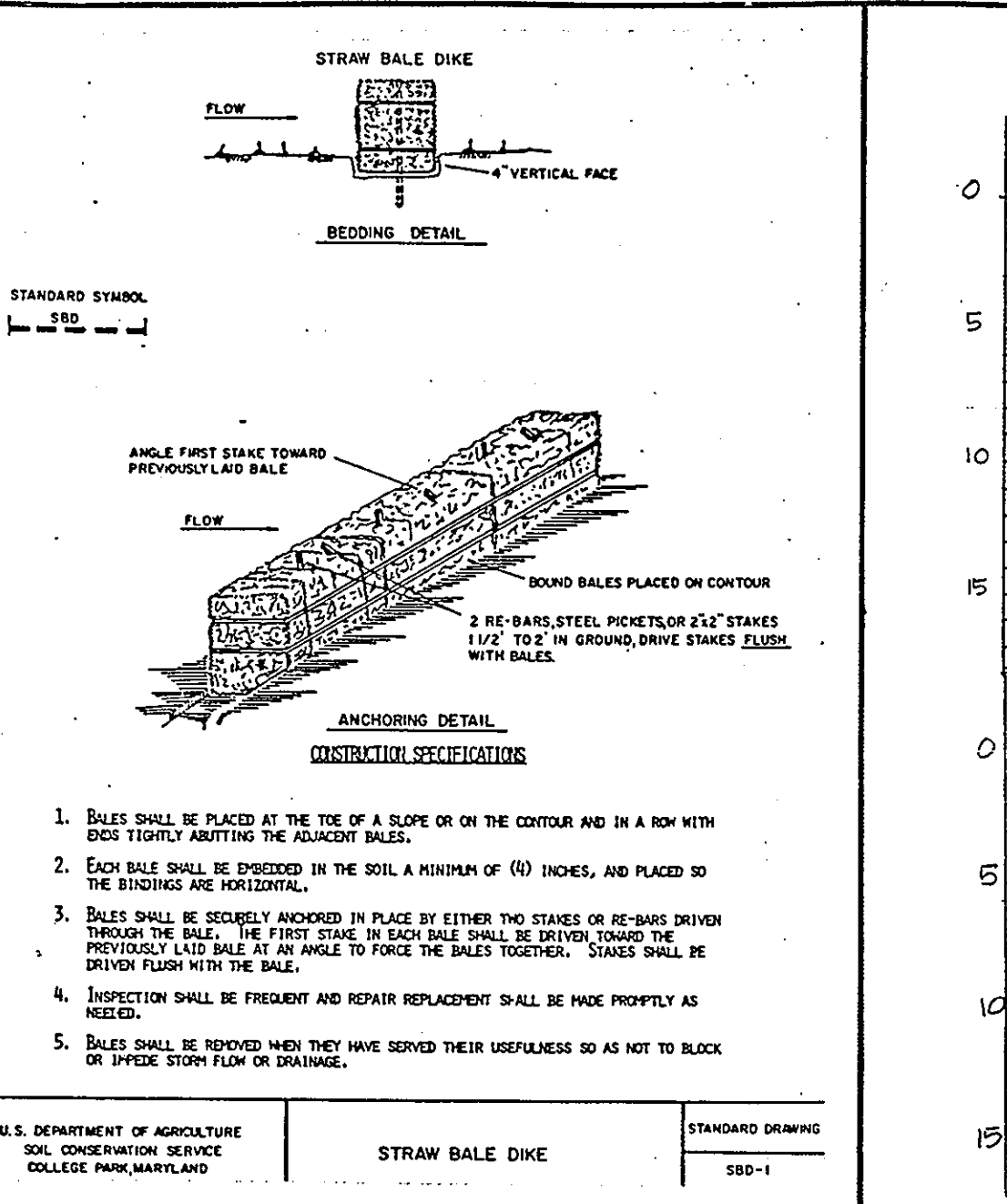
1. STABILIZED CONSTRUCTION ENTRANCE shall be constructed in accordance with the following specifications:
2. Length - As required, but not less than 30 ft. (except on a single residence lot where a 30 ft. minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) ft. minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Will not be required on a single family residence lot.
6. 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 1/2" slats will be provided.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or leaking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any manure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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 4th stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE

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

SEQUENCE OF OPERATION

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, PERMITS INSPECTOR 48 HOURS PRIOR TO BEGINNING WORK. (2 DAYS)
- CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES ONLY. (15 DAYS)
- INSTALL STABILIZED CONSTRUCTION ENTRANCES, PLUS EXISTING INLET 1-100 AS SHOWN ON THE DETAIL ON SHEET 6 OF 7. (11 DAYS)
- CONSTRUCT SEDIMENT BASINS & 2" STONE. THE SEDIMENT BASINS SHALL BE CONSTRUCTED ACCORDING TO THE "CONSTRUCTION SPECIFICATIONS" FOR STORM WATER MANAGEMENT PONDS AS SHOWN ON SHEET 7 OF 7. (14 DAYS)
- INSTALL ALL EARTH DISES AND STRAW BALE DISES MAINTAINING POSITIVE DRAINAGE TO THE SEDIMENT BASIN AT ALL TIMES. INSTALL MOUNTABLE BERMS AS NEEDED TO CROSS THE EARTH DISE RUNNING THROUGH THE MIDDLE OF THE SITE. (15 DAYS)
- BEGIN MAJOR GRADING OPERATIONS, ADJUST EARTH DISES AS WORK PROGRESSES SO THAT POSITIVE DRAINAGE IS MAINTAINED TOWARDS THE SEDIMENT BASIN AT ALL TIMES. AS FILL MATERIAL IS PLACED IN THE AREA OF BUILDING 4, A TEMPORARY DITCH (INDICATED BY THE CROSS HATCHED AREA ON THE PLAN) SHALL CROSS GRADIENT FROM THE NORTHERN HALF OF THE SITE TOWARDS SEDIMENT BASIN #2. AESTHETIC POND #1, 2, 3 WILL BE CONSTRUCTED AFTER THE MAJOR GRADING OPERATIONS. (21 DAYS)
- INSTALL STORM DRAINS AND OTHER UTILITIES, AS SHOWN AS THE STORM DRAINS AND SUPPORTING GRADGES ARE INSTALLED, THE EARTH DISE FROM POINT A TO POINT B CAN BE REMOVED, PROVIDE ADEQUATE PROTECTION FOR ALL INLETS. (21 DAYS)
- FINISH GRADE AND INSTALL SUBBASE IN PARKING AND BUILDING AREAS. (14 DAYS)
- STABILIZE ANY AREAS NOT RECEIVING PAYING. (13 DAYS)
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR CLEAN OUT AND CONVERT THE SEDIMENT BASINS TO STORM WATER MANAGEMENT FACILITIES. MAKE THE NECESSARY CHANGES TO INSPECTOR 1 & 2 SO THAT IT CONFORMS TO THE SITE AND SHOWN AS SHOWN ON THE STORM WATER MANAGEMENT PLAN. MAKE THE NECESSARY CHANGES TO BOTH RELEASE STRUCTURES SO THEY CONFORM TO THE STORM WATER PLANS. (7 DAYS)
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE THE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE. (15 DAYS)

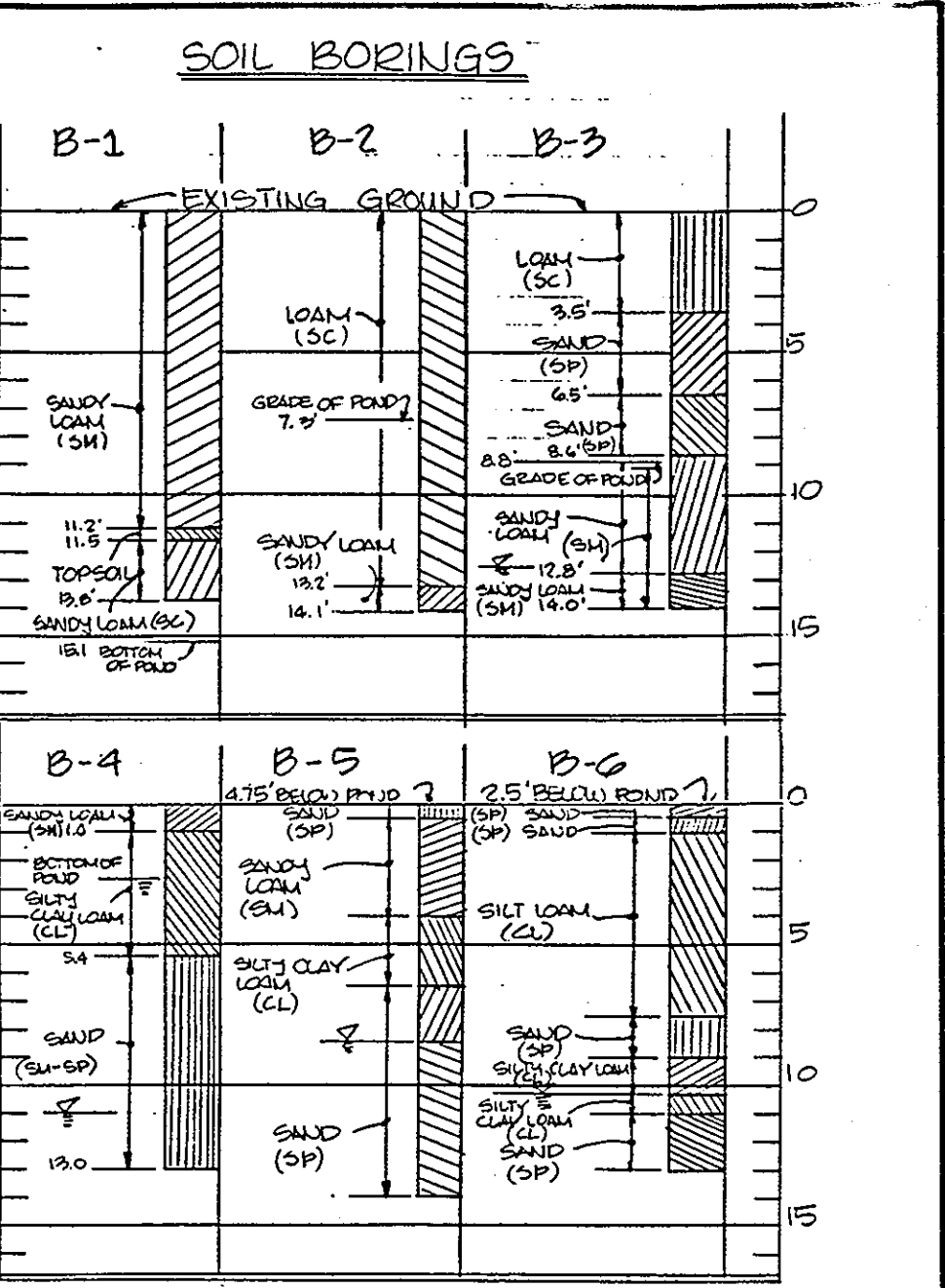


CONSTRUCTION SPECIFICATIONS

- Bales shall be placed at the toe of a slope or on the contour and a 6" minimum edge shall be provided at the adjacent bales.
- Each bale shall be spaced in the soil a minimum of (4) inches, or placed so the bales are horizontal.
- Bales shall be securely anchored in place by either two stakes or 16" rebar driven through the bale. The first stake in each bale shall be driven toward the horizontally laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as NOT to block or impede storm flow or drainage.

STRAW BALE DIKE

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



PERMANENT SEEDING NOTES

Seeding Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENEED.

Soil Amendments: Use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 urea form fertilizer (9 lbs./1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For the periods: March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 tall fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 tall fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Seed with 60 lbs./acre Kentucky 31 tall fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

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

SOIL GROUP: B & C POND #2

EXISTING CONDITION: (PRIOR TO MASS GRADING)

D.A. = 12.021
RCN = 66
2 Yr. Flow = 8.88 CFS
10 Yr. Flow = 27.32 CFS
100 Yr. Flow = 51.59 CFS

PROPOSED CONDITION:

A) Not Routed
D.A. = 0.68 AC
RCN = 74
2 Yr. Flow = 1.03 CFS
10 Yr. Flow = 2.42 CFS
100 Yr. Flow = 4.08 CFS

B) Routed
S.W.M. Facility = Pond
D.A. = 14.65 AC
RCN = 92

BEFORE MANAGEMENT

2 Yr. Flow = 46.58 CFS
10 Yr. Flow = 79.59 CFS
100 Yr. Flow = 115.56 CFS

AFTER MANAGEMENT (ROUTING)

7.55 CFS (w.s. elev. @ 323.35)
24.35 CFS (w.s. elev. @ 325.31)
56.34 CFS (w.s. elev. @ 326.54)

ALLOWABLE RELEASES:

For 2 Yr. Storm = 8.88 CFS
For 10 Yr. Storm = 27.32 CFS
For 100 Yr. Storm = 51.59 CFS

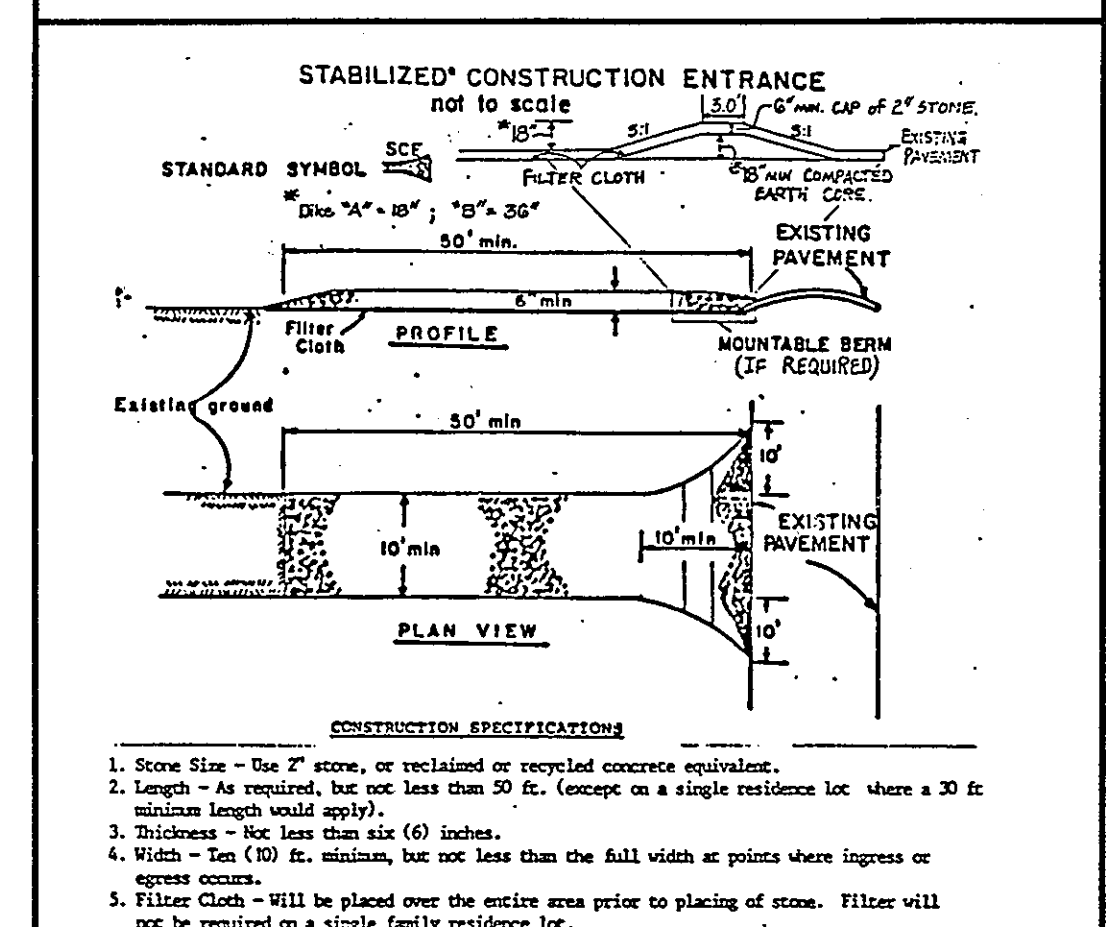
HYDROLOGIC CRITERIA:

Required = 2 & 10 yr. Management
Provided = 2 & 10 yr. Management

Structure Classification = A
Maximum Depth of Water = 8.54'

STORAGE REQUIREMENT:

For 2 Yr. Storm = 53174 CF (1.22 AC-Ft.)
For 10 Yr. Storm = 92174 CF (2.12 AC-Ft.)
For 100 Yr. Storm = 122174 CF (2.80 AC-Ft.)
Storage Height Product = 23.91 AC-Ft²

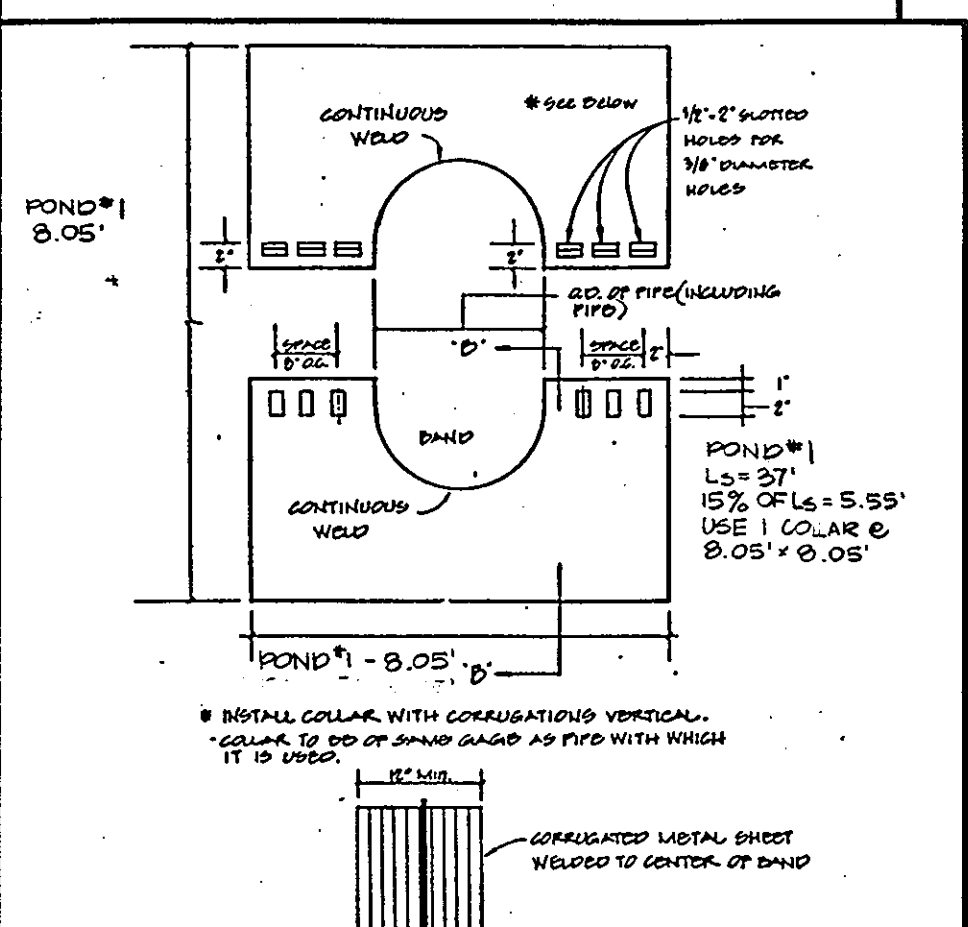


CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or recycled or recycled concrete equivalent.
- Length - As required, but not less than 30 ft. (except on a single residence lot where a 30 ft. minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) ft. 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. 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 1/2" slats will be provided.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or leaking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any manure 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 4th stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE

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



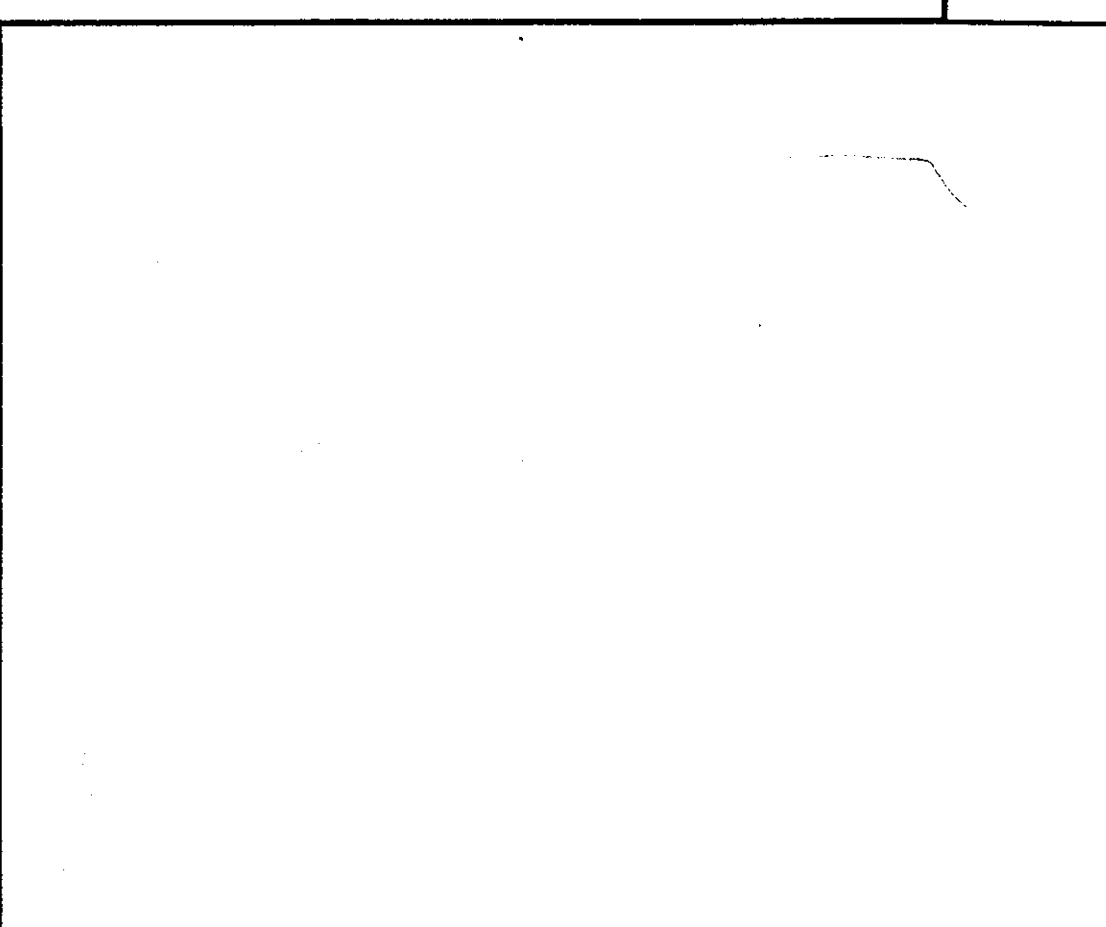
ANTI-DEEP COLLAR DETAIL

NOTES:

- All materials to be in accordance with Construction and Construction Material Specifications.
- When specified, coating of collars shall be in accordance with Construction and Construction Material Specifications.
- Unprotected collars shall be marked by painting or tagging to identify existing collars.
- The top between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
- Each collar shall be furnished with 2 (two) 1/2" diameter rods with standard nuts for connecting collars to pipe.
- Collars shall be located 2" min. from all pipe joints.

MAINTENANCE SCHEDULE

MAINTENANCE ITEM	1	2	3	4
MAINTENANCE FREQUENCY	1	2	3	4
REPAIR DURATION	1	10	10	10



MOUNTABLE BERM DETAIL

NOTES:

- CLEAN OUT SILT
- CLEAN OUT TRASH
- CHECK WEIR CLOSING
- CHECK SLOPE STABILIZATION
- CHECK STRUCTURAL INTEGRITY
- EVERY TWO WEEKS
- EVERY THREE MONTHS
- ONE WEEK MAXIMUM
- TWO DAY
- ALL MAINTENANCE INSPECTIONS AND REPAIR SHALL BE THE RESPONSIBILITY OF THE OWNER.
- INSPECT ALL ABOVE ITEMS AFTER EACH MAJOR RAINFALL AND REPAIR IF REQUIRED.

WELDING DETAIL

NO SCALE

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

APPROVED

DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION

HOWARD COUNTY, MARYLAND

DATE: 3-17-88

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

APPROVED: [Signature] 3/17/88
U.S. SOIL CONSERVATION SERVICE

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

APPROVED: [Signature] 3/27/88
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: [Signature] 6-18-88
COUNTY HEALTH OFFICER

APPROVED: [Signature] 6-27-88
HOWARD COUNTY OFFICE OF PLANNING & ZONING

APPROVED: [Signature] 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED: [Signature] 6/15/88
FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: [Signature] 6/15/88
FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF BUREAU OF ENGINEERING [Signature] 6/15/88

PERMANENT SEEDING NOTES

Seeding Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENEED.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)

Seeding: For periods March 1 thru April 30 and from August 15 thru Nov. 15, seed with 35 lbs. per acre of annual ryegrass (1.2 lbs./1000 sq. ft.). For the period 1000 sq. ft. For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

SOIL GROUP: B.C. POND #1

EXISTING CONDITION:

D.A. = 9.04 AC
RCN = 70
2 Yr. Flow = 9.12 CFS
10 Yr. Flow = 24.34 CFS
100 Yr. Flow = 43.52 CFS

PROPOSED CONDITION:

A) Not Routed
D.A. = 0.72 AC
RCN = 76
2 Yr. Flow = 1.22 CFS
10 Yr. Flow = 2.73 CFS
100 Yr. Flow = 4.50 CFS

B) Routed
S.W.M. Facility = Pond
D.A. = 5.01
RCN = 92

BEFORE MANAGEMENT

2 Yr. Flow = 15.93 CFS
10 Yr. Flow = 37.22 CFS
100 Yr. Flow = 39.52 CFS

AFTER MANAGEMENT (ROUTING)

8.20 CFS (w.s. elev. @ 321.39)
21.56 CFS (w.s. elev. @ 322.37)
34.78 CFS (w.s. elev. @ 323.05)

ALLOWABLE RELEASES:

For 2 Yr. Storm = 9.12 CFS
For 10 Yr. Storm = 24.34 CFS
For 100 Yr. Storm = 43.52 CFS

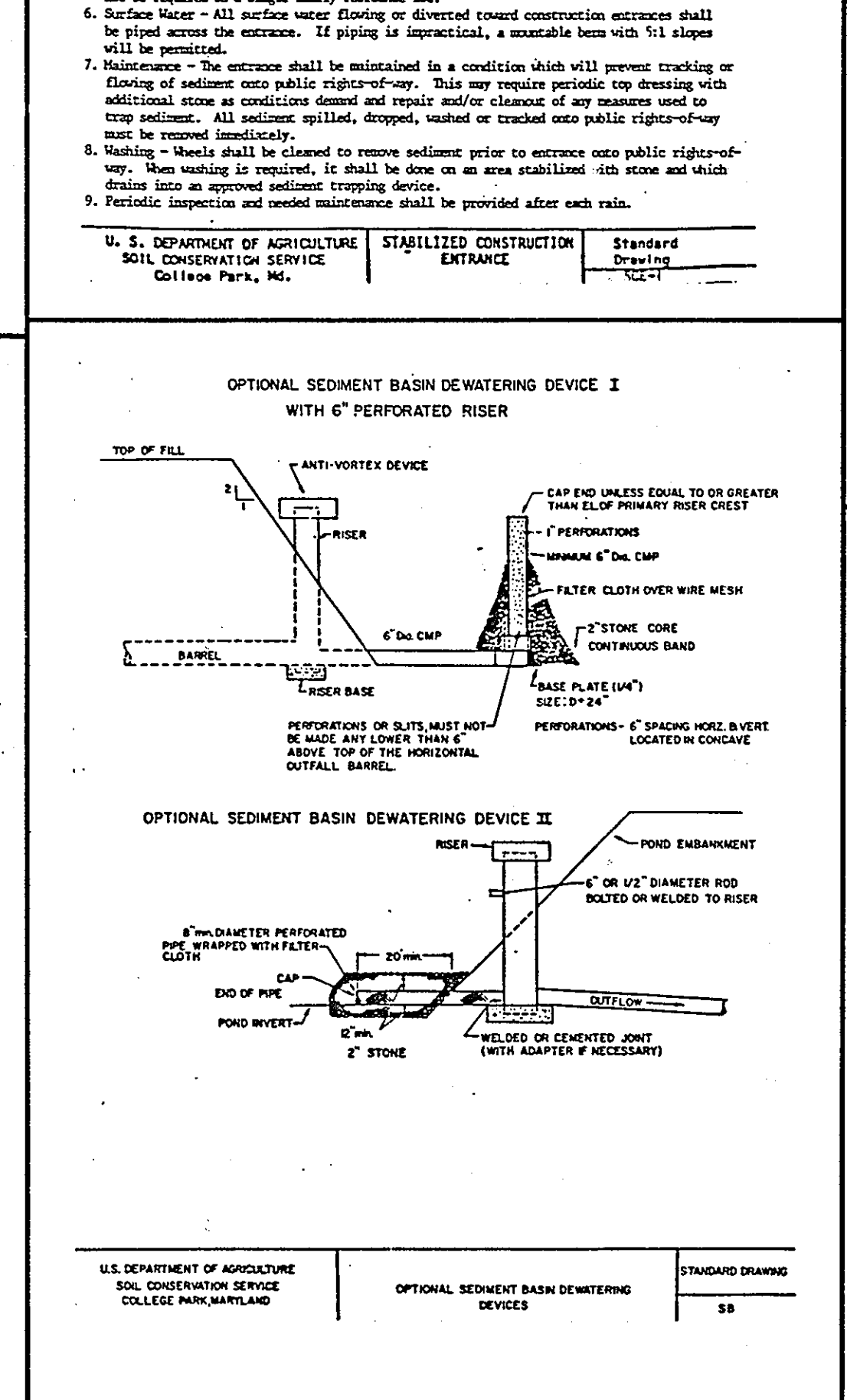
HYDROLOGIC CRITERIA:

Required = 2 & 10 yr. Management
Provided = 2, 10 & 100 yr. Management

Structure Classification = A
Maximum Depth of Water = 5.05'

STORAGE REQUIREMENT:

For 2 Yr. Storm = 8800 CF (0.20 AC-Ft.)
For 10 Yr. Storm = 1400 CF (0.32 AC-Ft.)
For 100 Yr. Storm = 18500 CF (0.42 AC-Ft.)
Storage Height Product = 2.12 AC-Ft²



OPTIONAL SEDIMENT BASIN DEWATERING DEVICE I

WITH 6" PERFORATED RISER

OPTIONAL SEDIMENT BASIN DEWATERING DEVICE II

WITH 6" PERFORATED RISER

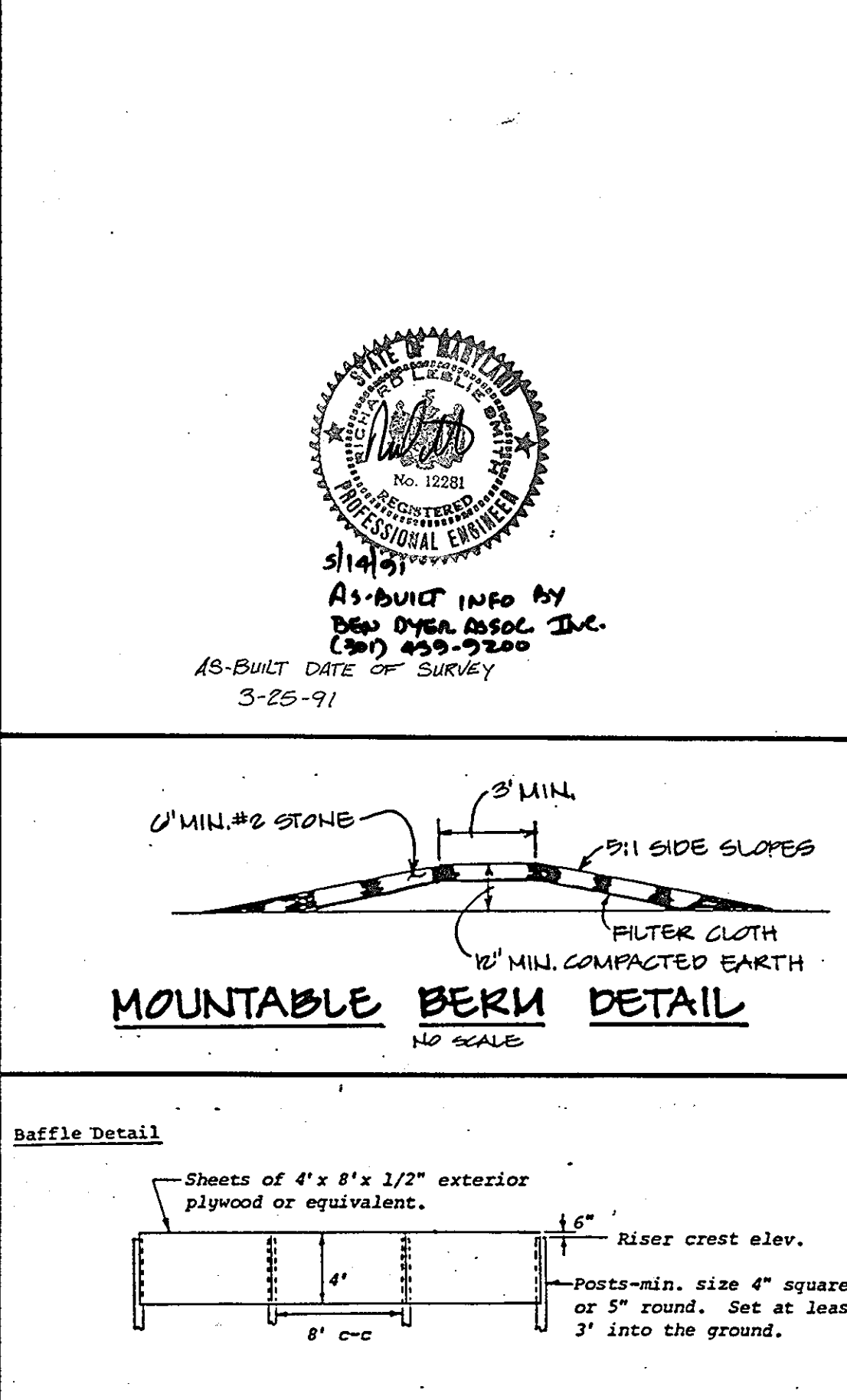
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

WELDING DETAIL

NO SCALE

NOTES:

- NO RUST SHALL BE PERMITTED ON REBAR SURFACES TO BE WELDED.
- BUTYRADIUM COATING SHALL BE APPLIED TO BARS UPON COMPLETION OF WELDING.



Baffle Detail

Sheets of 4' x 8' x 1/2" exterior plywood or equivalent.

4" Riser crest elev.

Posts - min. size 4" square or 5" round. Set at least 3' into the ground.

APPROVED: [Signature] 6/15/88
CHIEF BUREAU OF ENGINEERING

DESIGNED: N.B.
DRAWN: J.W.
CHECKED: N.B.

STORM WATER MANAGEMENT - SEDIMENT & EROSION CONTROL

DETAILS & NOTES

THREE PONDS BUSINESS PARK

COLUMBIA, GATEWAY PARCEL M-1

TAX MAP 43
HOWARD CO. MD.

PARCEL # 587
ELECTION DIST. 6
FEBRUARY 16, 1988
SHEET 6 OF 7

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS

303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

ENGINEER'S CERTIFICATE:

I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL, PRESENTS 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 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

ENGINEER: [Signature] 4/8/88
RFG NO. 8820

OWNER / DEVELOPER

COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP

C/O ROUSE & ASSOCIATES

5950 SYMPHONY WOODS RD.
COLUMBIA, MD, 21044

(301) 740-0200

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS AND THAT ANY PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.

DEVELOPER: [Signature] 5.17.88
DFVFI OPRF

AS-BUILT INFO BY

DEW OVER 2500 IN.

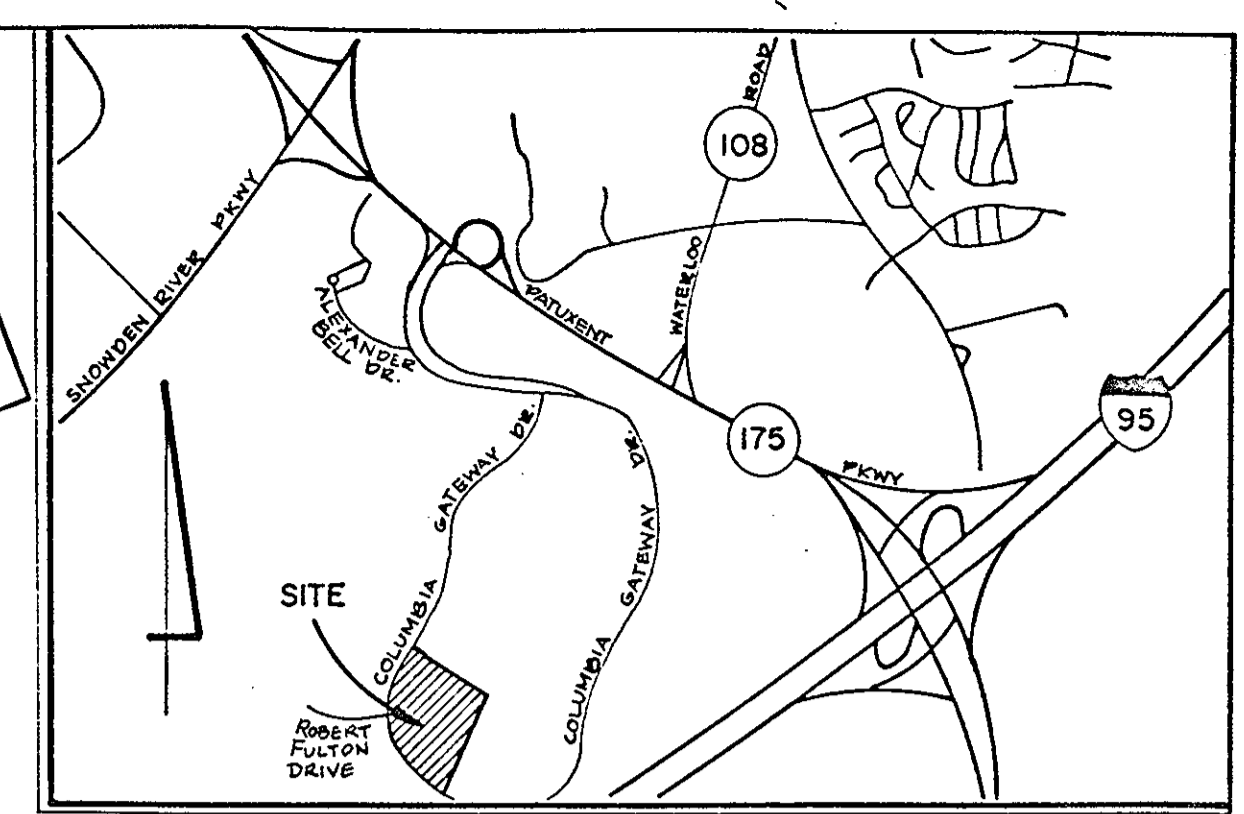
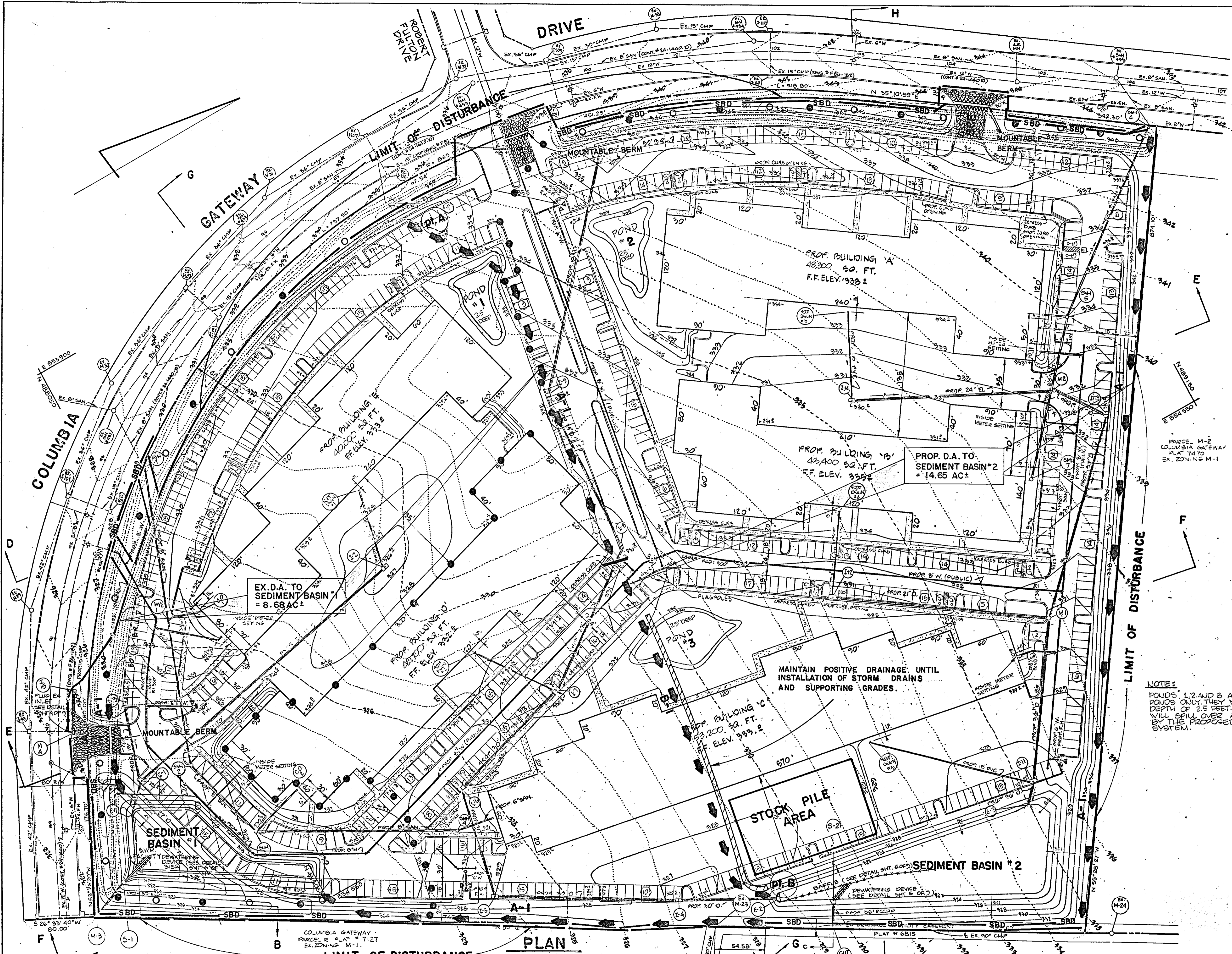
(301) 439-9200

3-25-91

AS-BUILT

5-14-88

SDP-88-145



VICINITY MAP
SCALE: 1"=2000'

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 3-17-88

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

James M. Adams 5/27/88
S.D. SOIL CONSERVATION SERVICE DATE

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

APPROVED: *Stephen J. Adams* 5/27/88
HOWARD SOIL CONSERVATION DISTRICT DATE

PLAN NUMBER

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

John E. ... 6-15-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

... 6-27-87
DIRECTOR DATE

... 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

... 6/15/88
DIRECTOR DATE

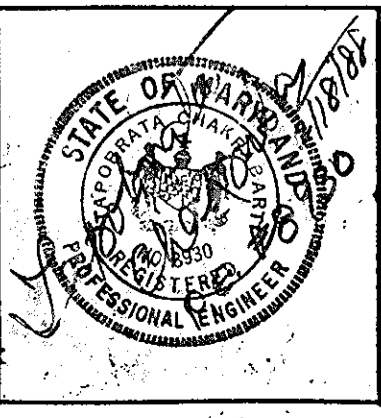
... 6-15-88
CHIEF BUREAU OF ENGINEERING DATE

NOTE:
PONDS 1, 2 AND 3 ARE LAND SCAPING PONDS ONLY. THEY WILL HAVE A MAXIMUM DEPTH OF 2.5 FEET. ANY EXCESS WATER WILL SPILL OVER AND BE PICKED UP BY THE PROPOSED STORM DRAIN SYSTEM.

LEGEND

- EX. DRAINAGE AREA
- PROP. DRAINAGE AREA
- STRAW BALE DIKE
- EARTH DIKE
- LIMIT OF DISTURBANCE
- STABILIZED CONSTR. ENTRANCE
- MOUNTABLE BERM

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120



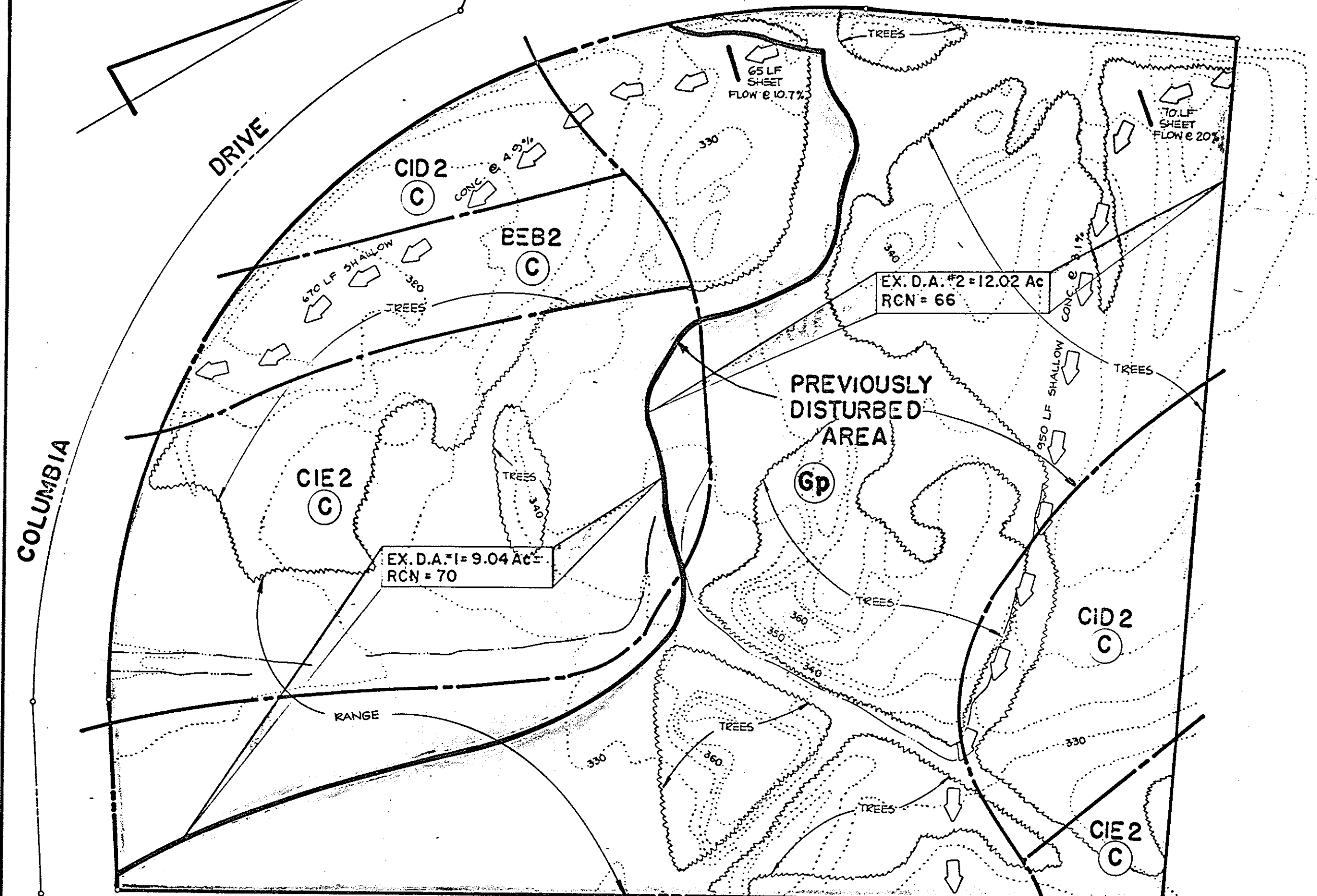
ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS THIS PLAN WAS 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
ENGINEER: *George William Stephens, Jr.*
REG. NO. 19930 DATE: 4/17/88

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
(301) 740-0200

DEVELOPER'S CERTIFICATE:
I 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 DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINE 'AS-BUILT' OF THE S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
DEVELOPER: *James M. Adams* DATE: 5-17-87

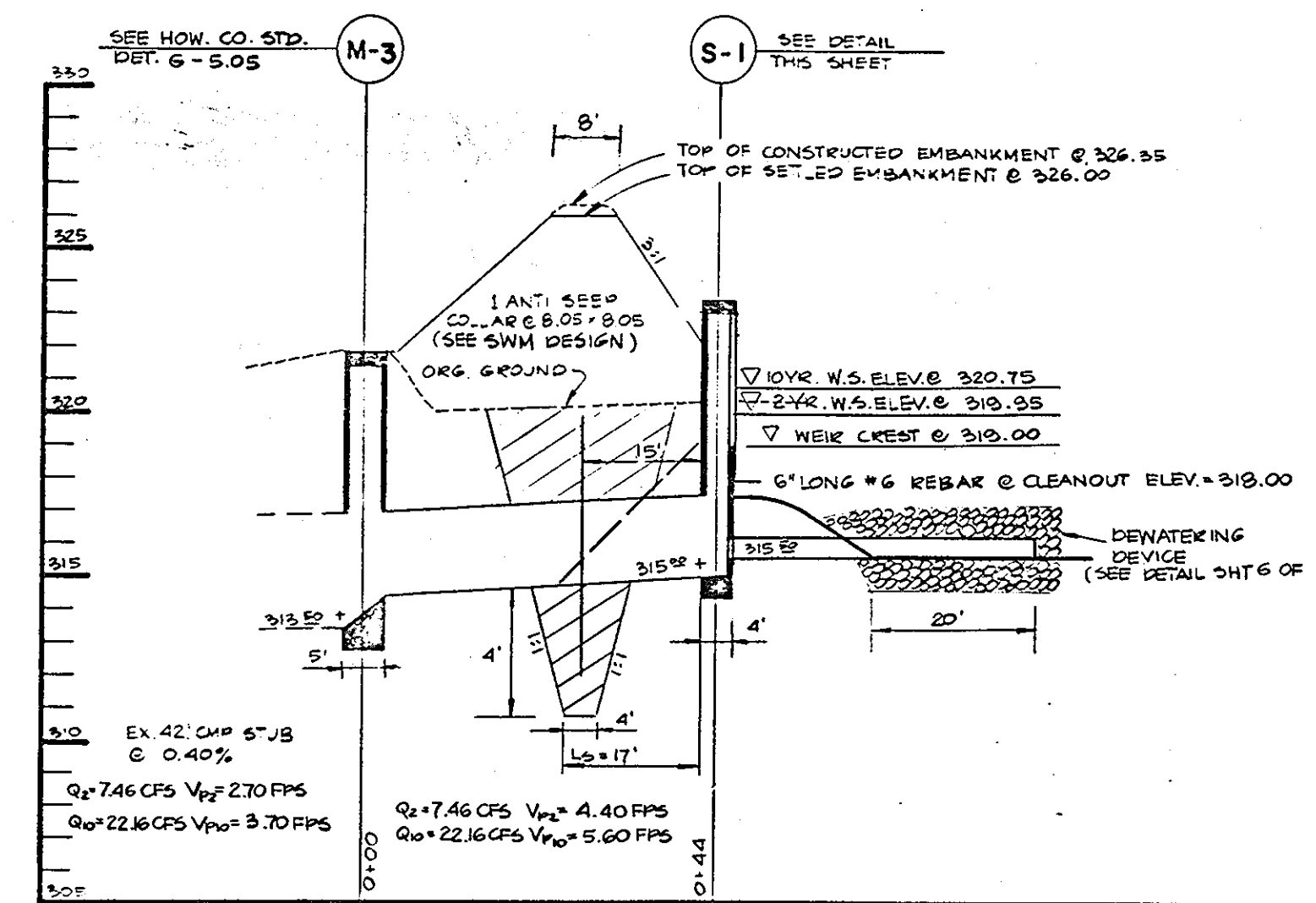
DESIGNED: N.B.
DRAWN: J.W.
CHECKED: N.B.

SEDIMENT & EROSION CONTROL PLAN
FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE 1"=50'
PARCEL #587
ELECTION DIST #6
FEBRUARY 10, 1988
SHEET 1 OF 9
SDP-88-145

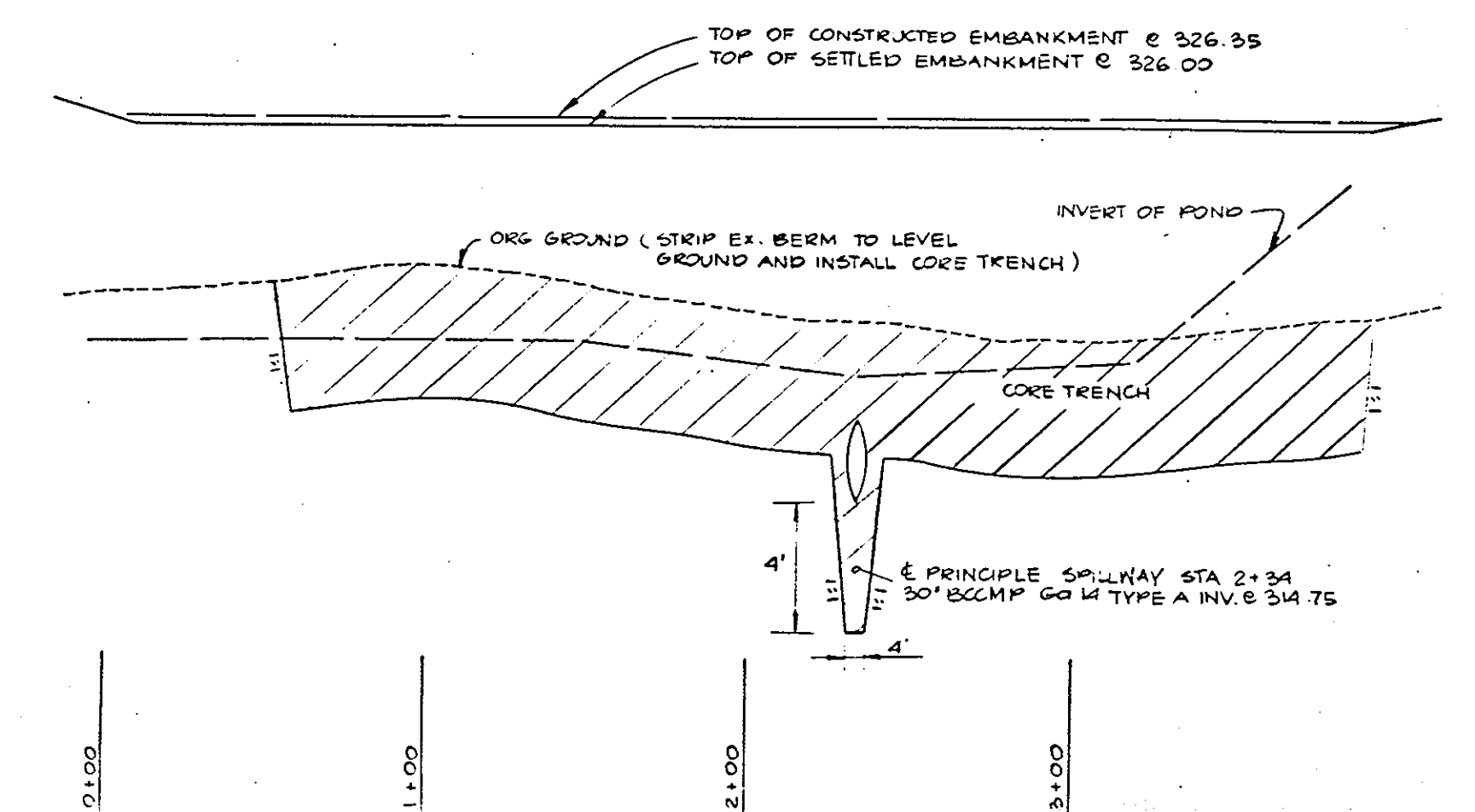


EX. DRAINAGE AREA MAP
SCALE: 1" = 100'

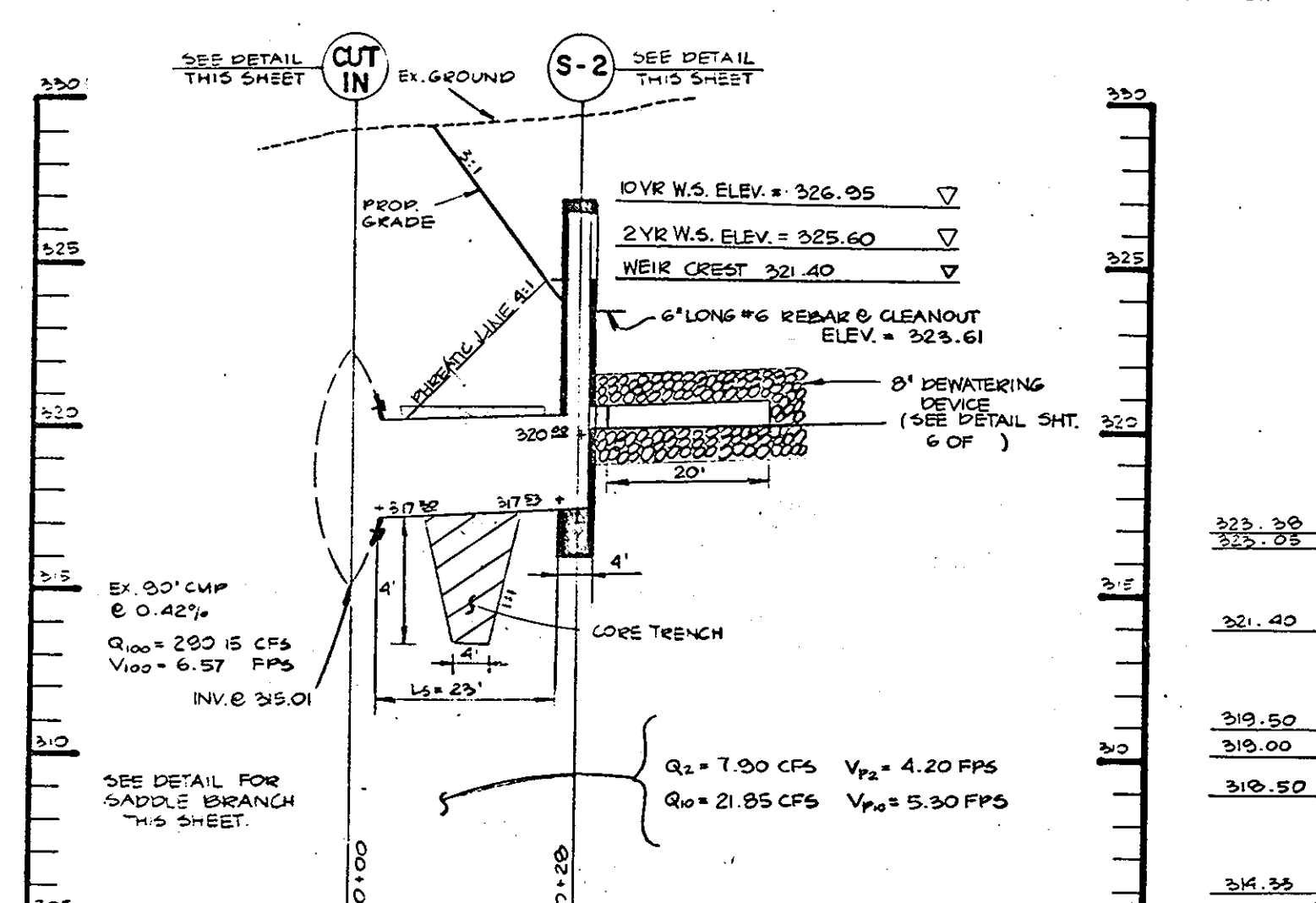
NOTE:
EX. D.A. MAP PICTURES ORIGINAL CONDITIONS AS SHOWN ON THE MASS GRADING PLANS FOR COLUMBIA GATEWAY.



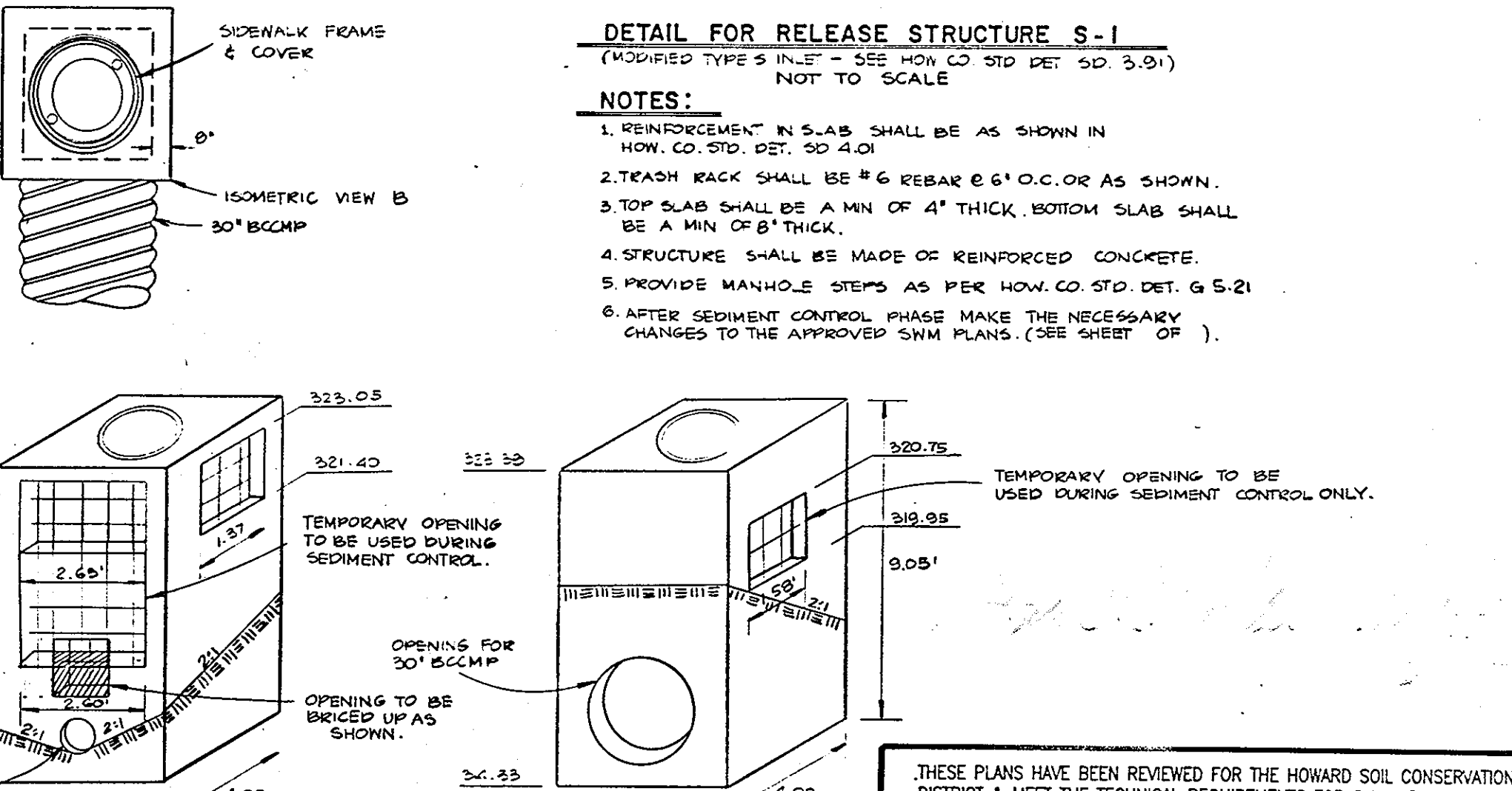
SECTION A-A THROUGH PRINCIPLE SPILLWAY BASIN #1
SCALE: HORZ. 1" = 20' VERT. 1" = 5'



SECTION E-B THROUGH CENTERLINE OF EMBANKMENT BASIN #1
SCALE: HORZ. 1" = 50' VERT. 1" = 5'

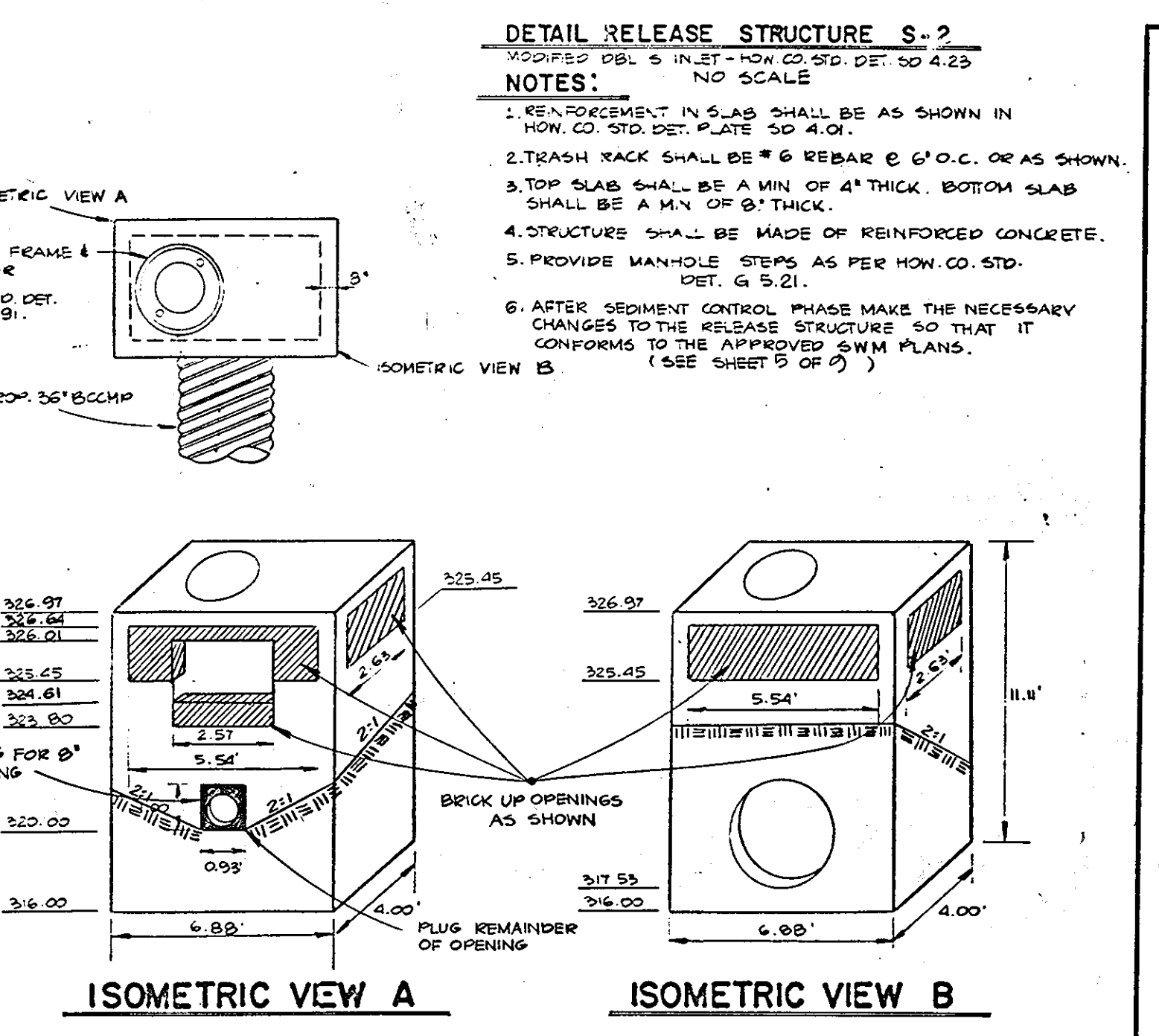


SECTION C-C THROUGH PRINCIPLE SPILLWAY BASIN #2
SCALE: HORZ. 1" = 20' VERT. 1" = 5'



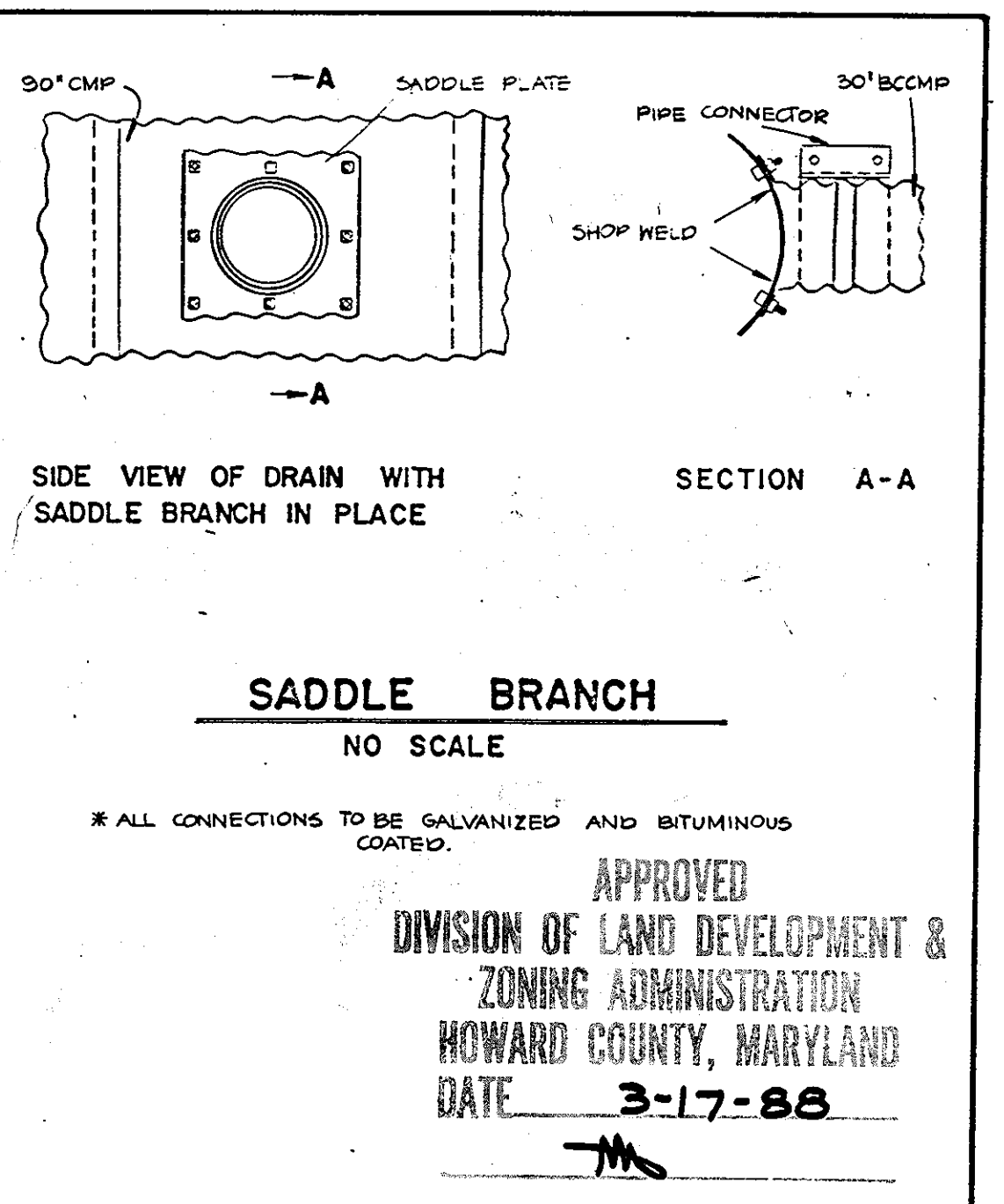
DETAIL FOR RELEASE STRUCTURE S-1
(MODIFIED TYPE 5 INLET - SEE HOW. CO. STD. DET. 50 3.91)
NOT TO SCALE

- NOTES:**
1. REINFORCEMENT IN S.L.A.S. SHALL BE AS SHOWN IN HOW. CO. STD. DET. 50 4.01.
 2. TRASH RACK SHALL BE #6 REBAR @ 6" O.C. OR AS SHOWN.
 3. TOP SLAB SHALL BE A MIN. OF 4" THICK. BOTTOM SLAB SHALL BE A MIN. OF 8" THICK.
 4. STRUCTURE SHALL BE MADE OF REINFORCED CONCRETE.
 5. PROVIDE MANHOLE STEPS AS PER HOW. CO. STD. DET. G 5.21.
 6. AFTER SEDIMENT CONTROL PHASE MAKE THE NECESSARY CHANGES TO THE APPROVED SWM PLANS. (SEE SHEET OF)



DETAIL RELEASE STRUCTURE S-2
(MODIFIED DBL 5 INLET - HOW. CO. STD. DET. 50 4.23)
NO SCALE

- NOTES:**
1. REINFORCEMENT IN S.L.A.S. SHALL BE AS SHOWN IN HOW. CO. STD. DET. 50 4.01.
 2. TRASH RACK SHALL BE #6 REBAR @ 6" O.C. OR AS SHOWN.
 3. TOP SLAB SHALL BE A MIN. OF 4" THICK. BOTTOM SLAB SHALL BE A MIN. OF 8" THICK.
 4. STRUCTURE SHALL BE MADE OF REINFORCED CONCRETE.
 5. PROVIDE MANHOLE STEPS AS PER HOW. CO. STD. DET. G 5.21.
 6. AFTER SEDIMENT CONTROL PHASE MAKE THE NECESSARY CHANGES TO THE APPROVED SWM PLANS. (SEE SHEET 5 OF 9)



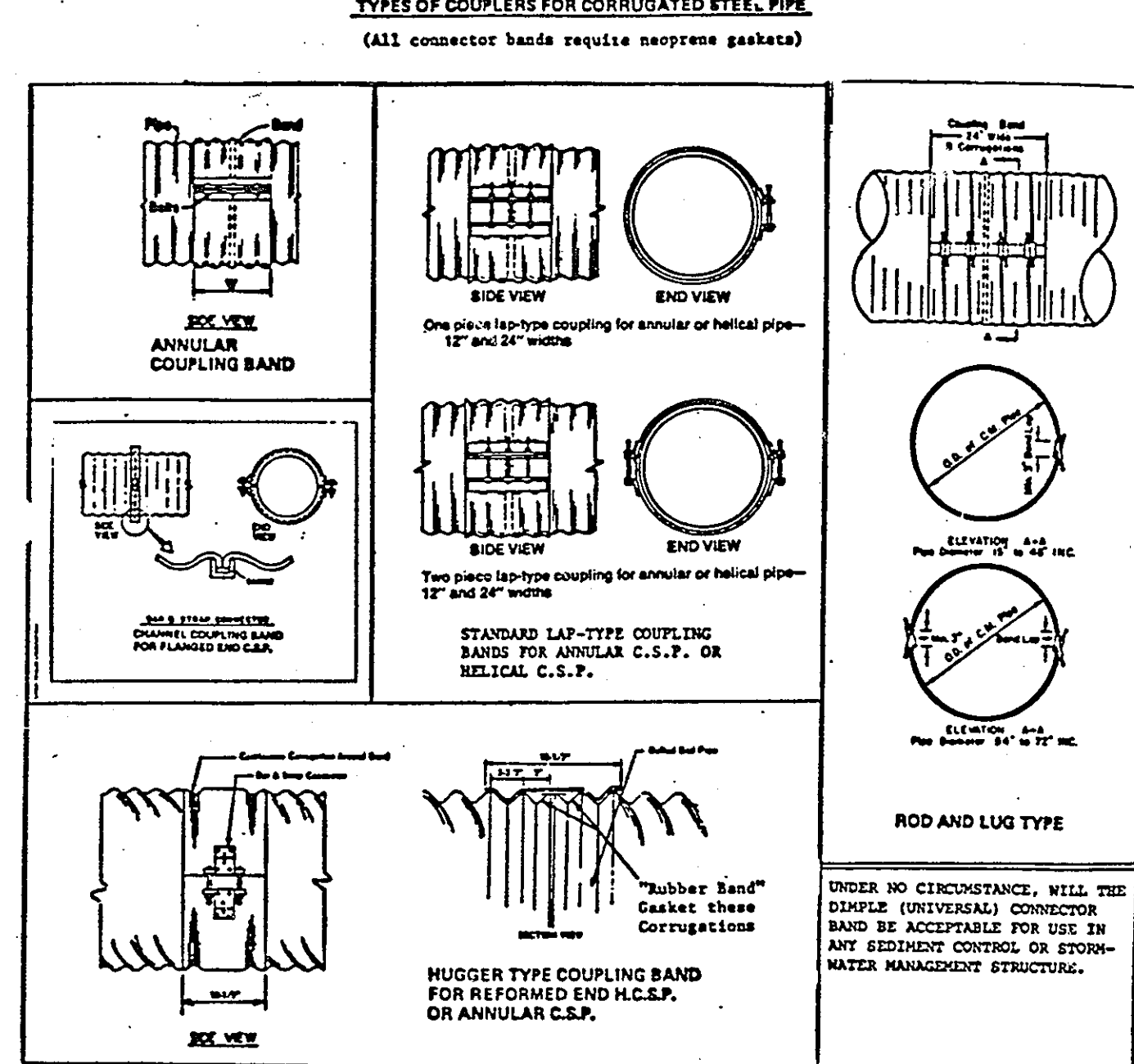
SADDLE BRANCH
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 3-17-88

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project sites.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analyst:
Total Area of Site: 20.62 Acres
Area Disturbed: 14.73 Acres
Area to be roofed or paved: 14.73 Acres
Area to be vegetatively stabilized: 5.74 Acres
Total Cut: 22,000 Cu. Yds * INCLUDES 10% CONSTRUCTION
Total Fill: 22,000 Cu. Yds
Offsite waste/borrow area location:
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE
(All connector bands require neoprene gaskets)



ROD AND LUG TYPE
UNDER NO CIRCUMSTANCE, WILL THE DUMPLE (UNIVERSAL) CONNECTOR BAND BE ACCEPTABLE FOR USE IN ANY SEDIMENT CONTROL OR STORM-WATER MANAGEMENT STRUCTURE.

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT 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 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
ENGINEER: *Vijayakumar Chakrabarti*
REG. NO. 8220 / *Vijayakumar Chakrabarti* DATE: 2/12/88

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE & ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD, 21044
(301) 740-0200

DEVELOPER'S CERTIFICATE:
I 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 DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
DEVELOPER: *William M. Gwyn* DATE: 5/12/87

DESIGNED: N.B.
DRAWN: J.W.
CHECKED: N.B.

SEDIMENT AND EROSION CONTROL - DETAILS AND PROFILES
FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
PARCEL #87
ELECTION DIST. #6
FEBRUARY 16, 1988
SHEET 9 OF 9
SDP-88-145

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

James M. Helm 5/21/88
U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: *Stephen L. Huber* 5/27/88
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
John B. ... 6/15/88
COUNTY HEALTH OFFICER DATE

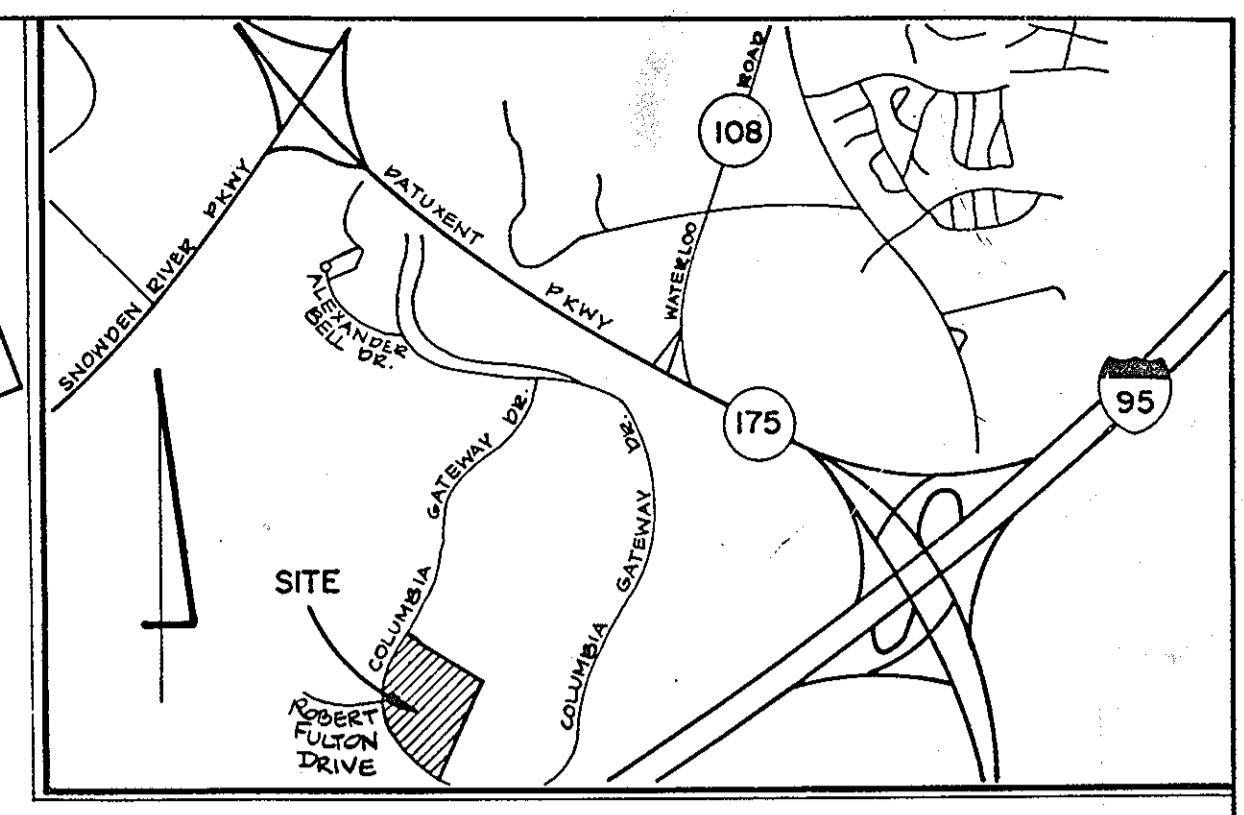
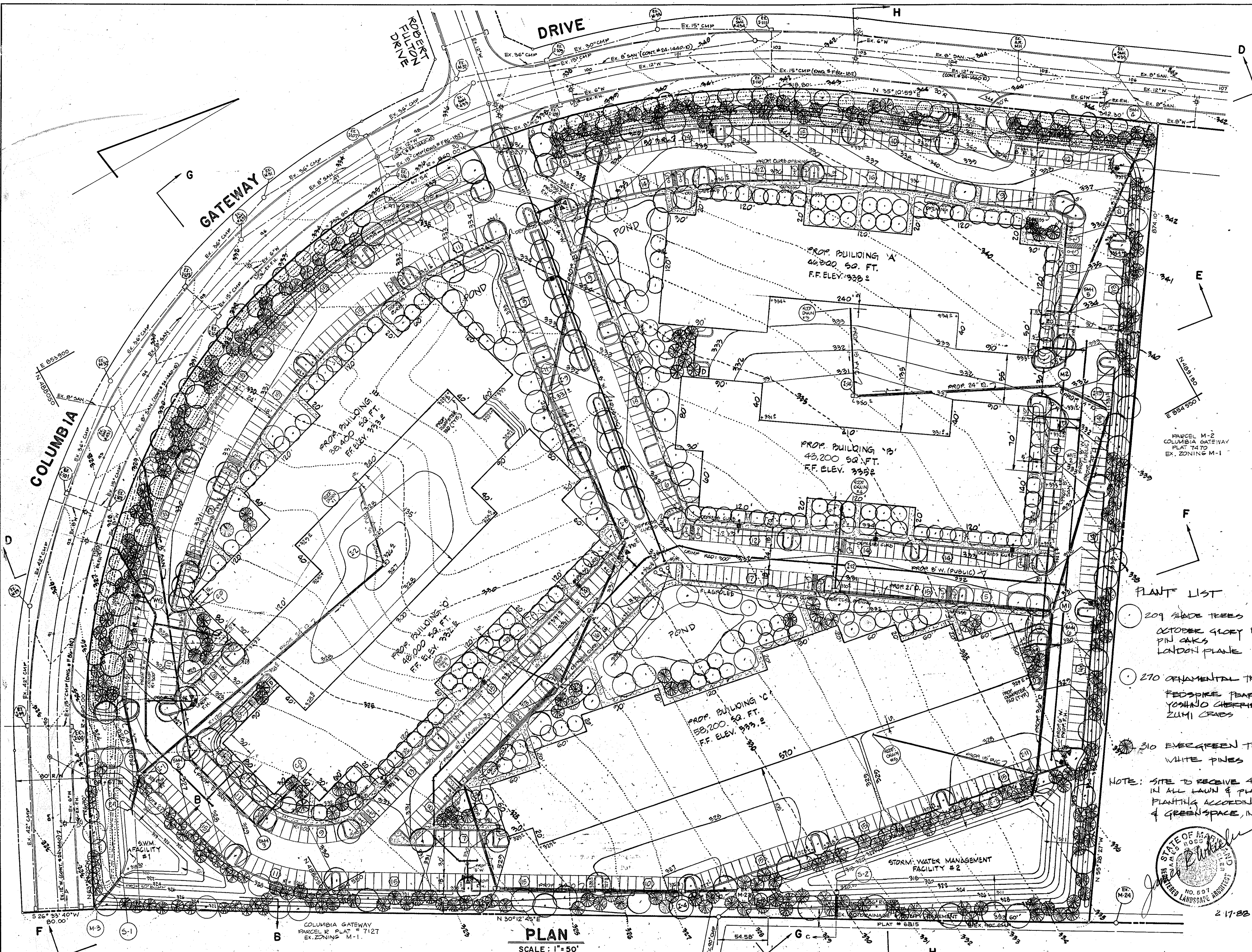
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
William M. Gwyn 6.27.88
DIRECTOR DATE

James M. Helm 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
James M. Helm 6/15/88
DIRECTOR DATE

William M. Gwyn 6/15/88
CHIEF BUREAU OF ENGINEERING DATE

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120



VICINITY MAP
SCALE: 1"=2000'

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 3-17-88

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

James M. Helm 5/27/88
U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED: *Stephen L. Fisher* 4/27/88
HOWARD SOIL CONSERVATION DISTRICT DATE

PLAN NUMBER

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

Donna G. 6-18-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

Chick 6-27-88
DIRECTOR DATE

James R. Smith 6/22/88
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

James R. Smith 6/15/88
DIRECTOR DATE

James R. Smith 6/14/88
CHIEF BUREAU OF ENGINEERING DATE

- PLANT LIST
- 209 SHADE TREES 26-3" CAL
 - OCTOBER GLORY MAPLES
 - PIN OAKS
 - LONDON PLANE
 - 270 ORNAMENTAL TREES 8-10' HGT
 - REDBARK PEARS
 - YOSHINO CHERRIES
 - ZUMI GRASS
 - 310 EVERGREEN TREES 6-8' HGT
 - WHITE PINES
- NOTE: SITE TO RECEIVE 4-6" OF TOPSOIL IN ALL LAWN & PLANTING AREAS PLANTING ACCORDING TO HED & GREENSPACE, INC. SPECIFICATIONS



PLAN
SCALE: 1"=50'

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR S.W.M. FACILITY CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENT 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 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
ENGINEER: _____
REG. NO. _____ DATE _____

OWNER / DEVELOPER
COLUMBIA GATEWAY DRIVE LTD. PARTNERSHIP
C/O ROUSE ASSOCIATES
5950 SYMPHONY WOODS RD.
COLUMBIA MD 21044
(301) 746-0200

DESIGNED: K.B.
DRAWN: J.W./K.B.
CHECKED: N.B.
DEVELOPER'S CERTIFICATE:
I 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 DEPT. OF NATURAL RESOURCES APPROVED 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. DEVIATION FROM THIS PLAN 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 S.W.M. FACILITY WITHIN 30 DAYS OF COMPLETION.
DEVELOPER: *James R. Smith* DATE: 5-17-88

LANDSCAPING PLAN
FOR
THREE PONDS BUSINESS PARK
COLUMBIA GATEWAY PARCEL M-1
TAX MAP 43
HOWARD CO. MD
SCALE 1"=50'
PARCEL # 587
ELECTION DIST. # 6
FEBRUARY 16 1988
SHEET 2 OF 2
SDP-88-145