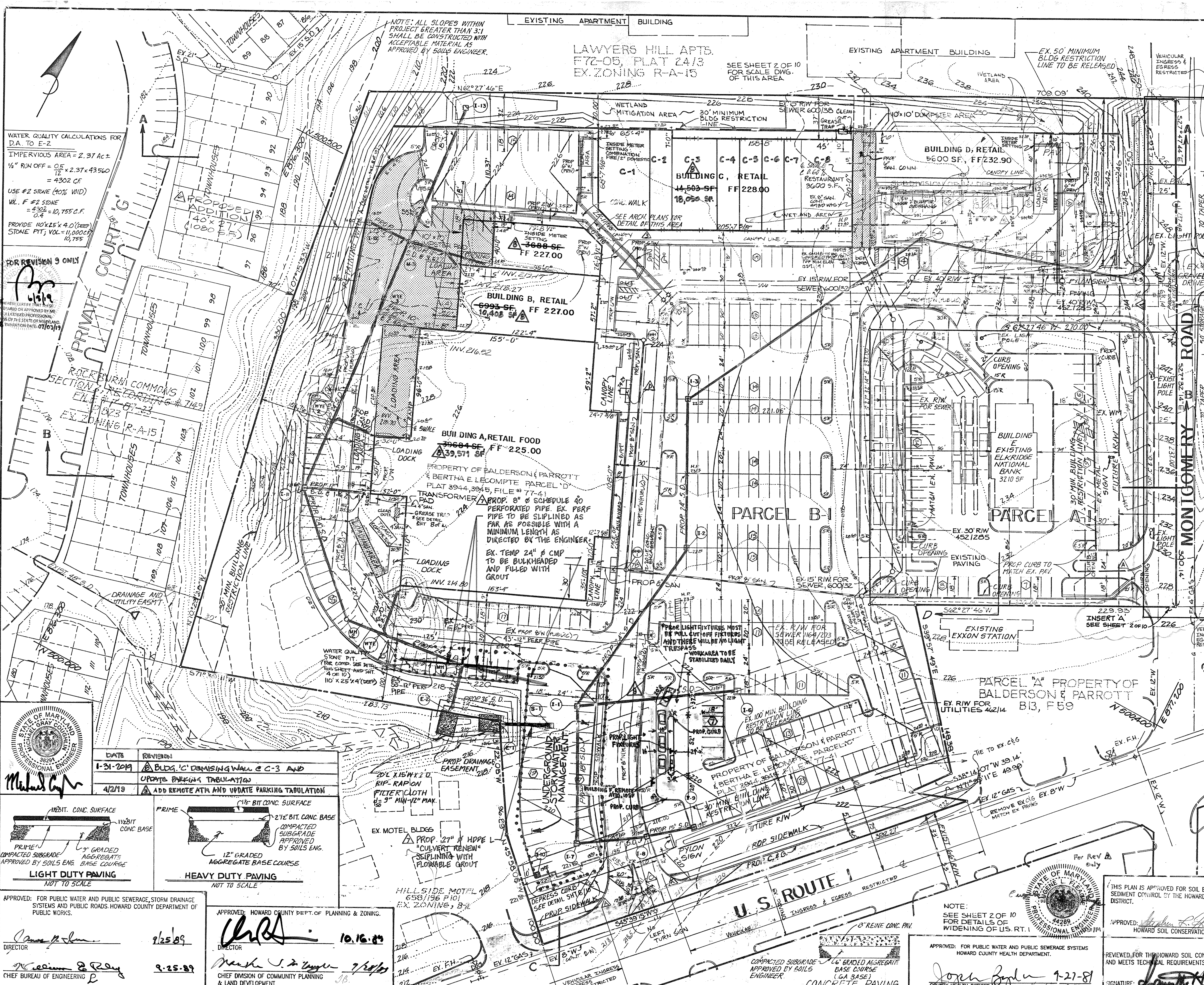


WATER QUALITY CALCULATIONS FOR D.A. TO E-2

IMPERVIOUS AREA = 2.37 Ac ±

1/2" RUN OFF = $\frac{0.5}{12}$ × 2.37 × 43.560 = 4302 C.F.

USE #2 STONE (40% VOID)

VOL. F #2 STONE = $\frac{4302}{0.4}$ = 10,755 C.F.

PROVIDE 110'x25'x4.0'(DEEP) STONE PIT; VOL = 11,000 C.F. 10,755

FOR REVISION 9 ONLY

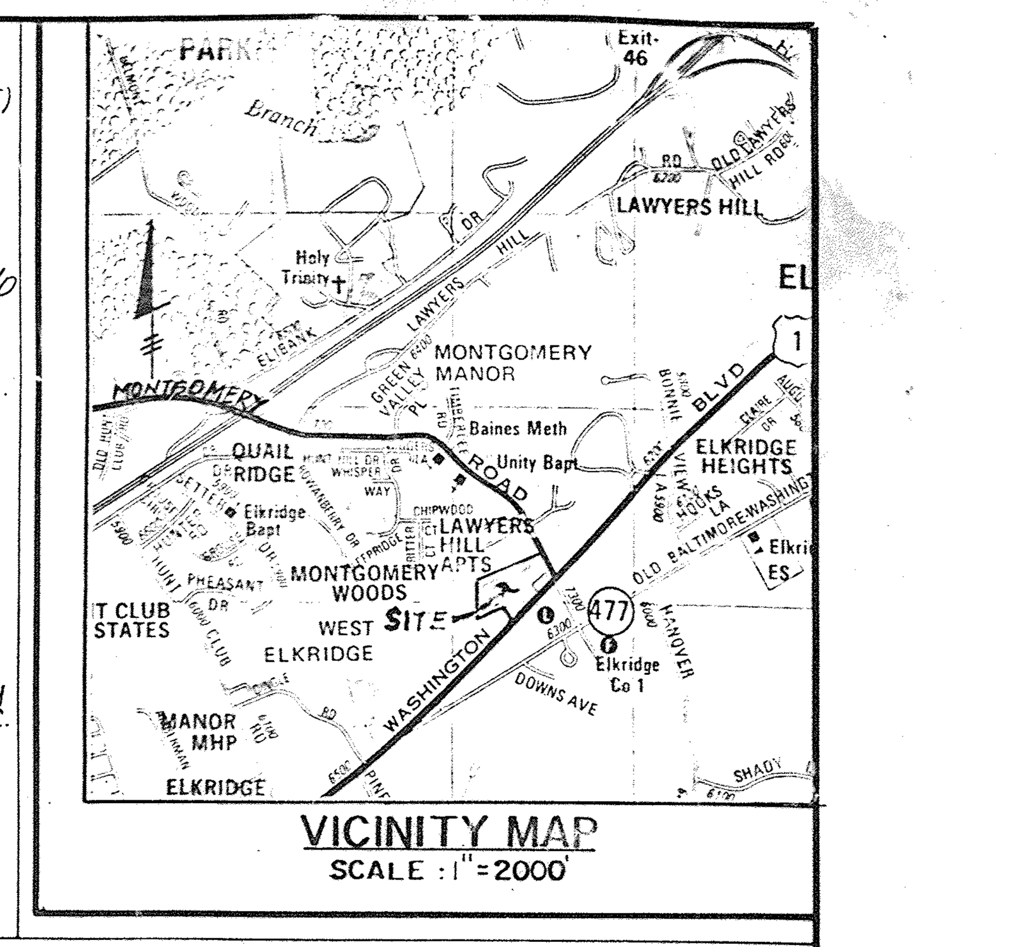
6/3/19

I, BRANDON ROWE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 40808 EXPIRATION DATE: 07/03/19

SITE DATA

TOTAL AREA OF SITE: 10.472 AC. (456,160 SF)
AREA OF HIGHWAY WIDENING: 0.865 AC.
NET AREA OF SITE: 9.607 AC (418,481 SF)
EXISTING USE: EX. BANK & VACANT
PROPOSED USE: BANK & RETAIL
TOTAL FLOOR AREA: 77,278 SF.
FLOOR AREA RATIO (BLDG. COVERAGE W/O PAVING): 18.47%
BUILDING COVERAGE WITH PAVING: 7.742 AC.

AREA OF PARKING LOT: 5.21 AC.
AREA OF LANDSCAPED ISLANDS WITHIN PARKING LOT: 0.42 AC.
PERCENTAGE OF LANDSCAPING WITHIN PARKING LOT: 8.1%
PERCENTAGE OF OPEN SPACE: 2.730/10.472 = 26.07%
AREA TO BE DISTURBED: 9.29 AC.
AREA TO BE VEGETATIVELY STABILIZED: 2.21 AC.
EXISTING ZONING: B-2
PROPERTY REFERENCE: 1909/528, 1948/684, 1948/678, 452/285, 1939/455



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. MAXIMUM BUILDING HEIGHT - 40'
2. ALL AREAS NOT PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
3. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY AND/OR ADJACENT PROPERTIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL MAINTAIN AT LEAST A 2' LEVEL BENCH BEHIND ALL CURB AND GUTTER IN FILL AREAS.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION.
6. ALL SLOPES SHALL BE 2:1 OR FLATTER
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, OR AS SHOWN ON THESE PLANS.
8. THE CONTRACTOR SHALL NOTIFY THE C&P TELEPHONE CO. AND THE GAS AND ELECTRIC COMPANY FIVE DAYS PRIOR TO STARTING WORK SHOWN ON THESE PLANS BY CALLING "MISS UTILITY" CALL COLLECT 1-559-0100
9. FOR DETAILS OF RAMPS AND SIGNS FOR THE HANDICAPPED SEE THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED AND DETAILS AS SHOWN HEREON.
10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3.5' COVER OVER ALL PROPOSED WATER LINES.
11. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-2630
12. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVING, CURB AND GUTTER, ETC. THAT MAY INTERFERE WITH PROPOSED CONSTRUCTION.
13. ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
14. ALL WATER MAIN TEES, BENDS, CAPS, ETC. SHALL BE BUTTRESSED IN ACCORDANCE WITH HOWARD COUNTY DESIGN REGULATIONS.
15. THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWER SYSTEM IF THIS WASTE 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 PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE 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 TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWER SYSTEM PRIOR TO THE INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS

~~PARKING TABULATION~~ (8)

PARKING REQUIRED: REFER TO SHEET 10 FOR REVISED PARKING TABULATION CHART.

PARCEL 'A':	
EXIST. BANK AREA AVAILABLE TO PUBLIC:	2375 S.F. @ 1 SPC/200 S.F. = 12 SPC.
REMAINDER OF EXIST. BANK AREA:	22 EMPLOYEES @ 0.7 SPC/EMP. = 16 SPC.
PARCEL B: RESTAURANT; 6 EMP.	1 SPC/4 SEATS, 1 SPC./2 EMP. = 38 SPC.
RETAIL FOOD: (AREA AVAILABLE TO PUBLIC)	29927 S.F. @ 1 SPC./150 S.F = 200 SPC.
RETAIL FOOD: (AREA NOT AVAILABLE TO PUBLIC)	9795 S.F. @ 1 SPC./500 S.F = 20 SPC.
RETAIL:	(6) 31864 S.F. @ 1 SPC/200 S.F. = 159 SPC.
TOTAL PARKING REQUIRED	445 SPC.
PARKING PROVIDED (INCL. 10 H.C. SPC)	449 SPC.

LEGEND

- TRACT OUTLINE
- R/W LINE
- EASEMENTS
- MINIMUM BUILDING RESTRICTION LINE
- EXISTING GROUND 270
- PROPOSED GRADE 272
- NUMBER PARKING SPACES (5)
- HANDICAPPED PARKING
- LIGHT DUTY PAVING
- HEAVY DUTY PAVING
- CONCRETE PAVING
- M.S.H.A. TYPICAL PAVING
- HANDICAPPED DETAIL NO. (A)

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89
J.B.

DATE	REVISION
1-31-2019	(9) BLDG. 'C' DEMISING WALL @ C-3 AND UPDATE PARKING TABULATION
4/2/19	(10) ADD REMOTE ATM AND UPDATE PARKING TABULATION

LIGHT DUTY PAVING
NOT TO SCALE
(PRIME; 1 1/2" BIT. CONC. SURFACE; 2 1/2" BIT. CONC. BASE; COMPACTED SUBGRADE APPROVED BY SOILS ENG.; 9" GRADED AGGREGATE BASE COURSE)

HEAVY DUTY PAVING
NOT TO SCALE
(PRIME; 1 1/2" BIT. CONC. SURFACE; 2 1/2" BIT. CONC. BASE; COMPACTED SUBGRADE APPROVED BY SOILS ENG.; 12" GRADED AGGREGATE BASE COURSE)

CONCRETE PAVING
NOT TO SCALE
(8" REINF. CONC. PAV.; 6" GRADED AGGREGATE BASE COURSE (GA BASE); COMPACTED SUBGRADE APPROVED BY SOILS ENGINEER)

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

DIRECTOR 9/25/89

CHIEF BUREAU OF ENGINEERING 9-25-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

DIRECTOR 10.16.89

CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT 9/28/89

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

COUNTY HEALTH OFFICER 9-27-81 DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT 9-20-89 DATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE: UNITED STATED SOIL CONSERVATION SERVICE 9/20/89 DATE

ADDRESS CHART	
BUILDING #	STREET ADDRESS
A	7280 MONTGOMERY ROAD
B	7270 MONTGOMERY ROAD
C	7260 MONTGOMERY ROAD
D	7250 MONTGOMERY ROAD
E	7290 MONTGOMERY ROAD

SUBDIVISION NAME				SECT./AREA	LOT/PARCEL #
ELKRIDGE CORNERS				1	
PLAT # OR L/F 8825	BLOCK #	ZONE B-2	TAX/ZONE MAP 38	ELECT. DIST. 1	CENSUS TRACT 6012
WATER CODE D04			SEWER CODE 2024500		

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

ENGINEERS'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: TAPOBRATA CHAKRABARTI
REG. NO. 8930 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-8300

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.
PARCEL A-1 DEVELOPER DATE 4/5/89 PARCEL B-1 DEVELOPER DATE

DESIGNED: D.P.
DRAWN: N.K.
CHECKED: D.P.
F.N.: 05690

REVISIONS
(1) REV. PROP. GRADE IN ENTRANCE U.S. RTE 1. REV. TOP GRATE ELEV. I-8
(2) REV. WATER CONN. BLDGS B, C, & D.
(3) REV. PARKING, BLDG'S B & C. 7/9/90
(4) ADDED GREASE TRAP REAR BLDG C & RESTAURANT 1/8/91
(5) 2/25/91 ADDED INSERT 'A'.
(6) ADDED PROP. BLDG. ADDITION REV. PARKING
(7) 5/20/14 SWM REV. S-1 + M1

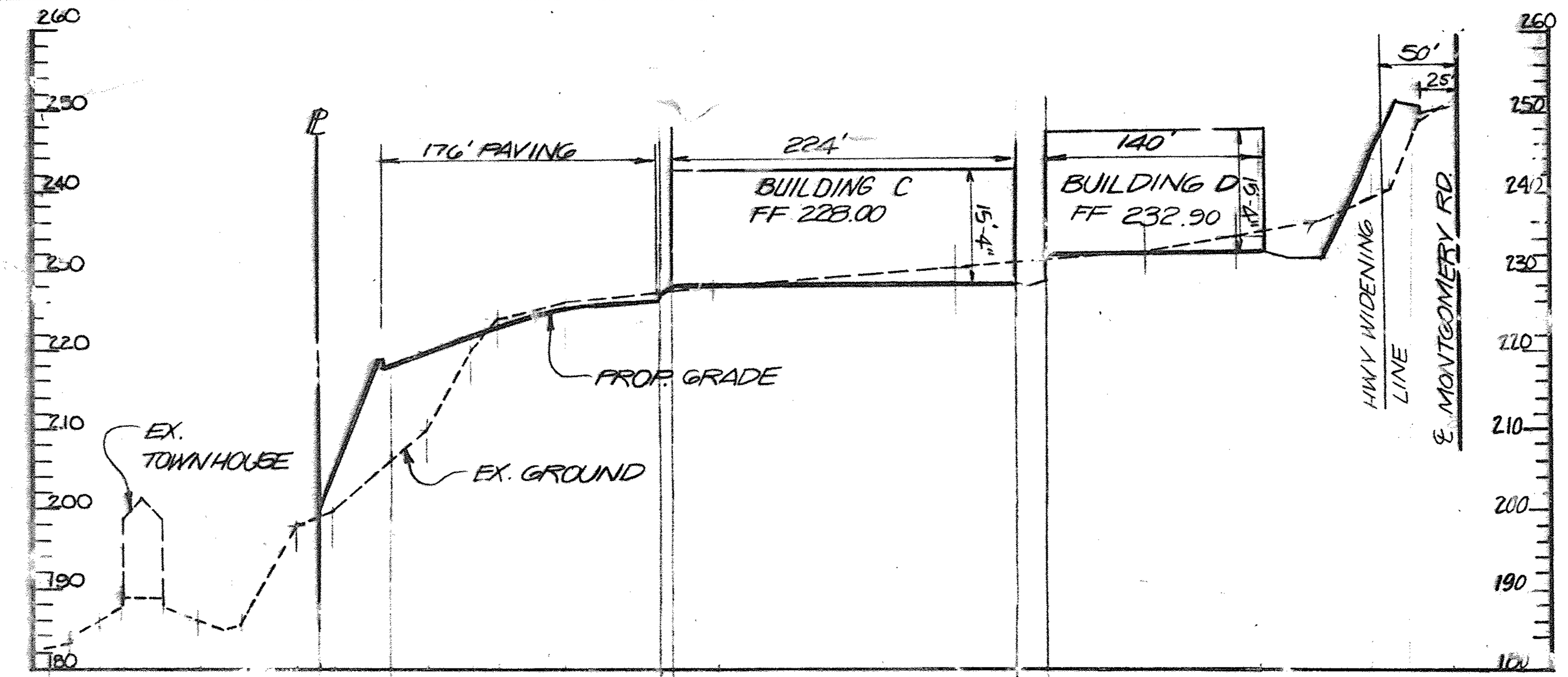
SITE DEVELOPMENT PLAN
ELKRIDGE CORNERS

TAX MAP 38
HOWARD CO., MD.
SCALE: 1" = 40'
FINAL PLAN FILE # - F-89-203

FILE No S-89-08
WP-89-52
WP-89-169

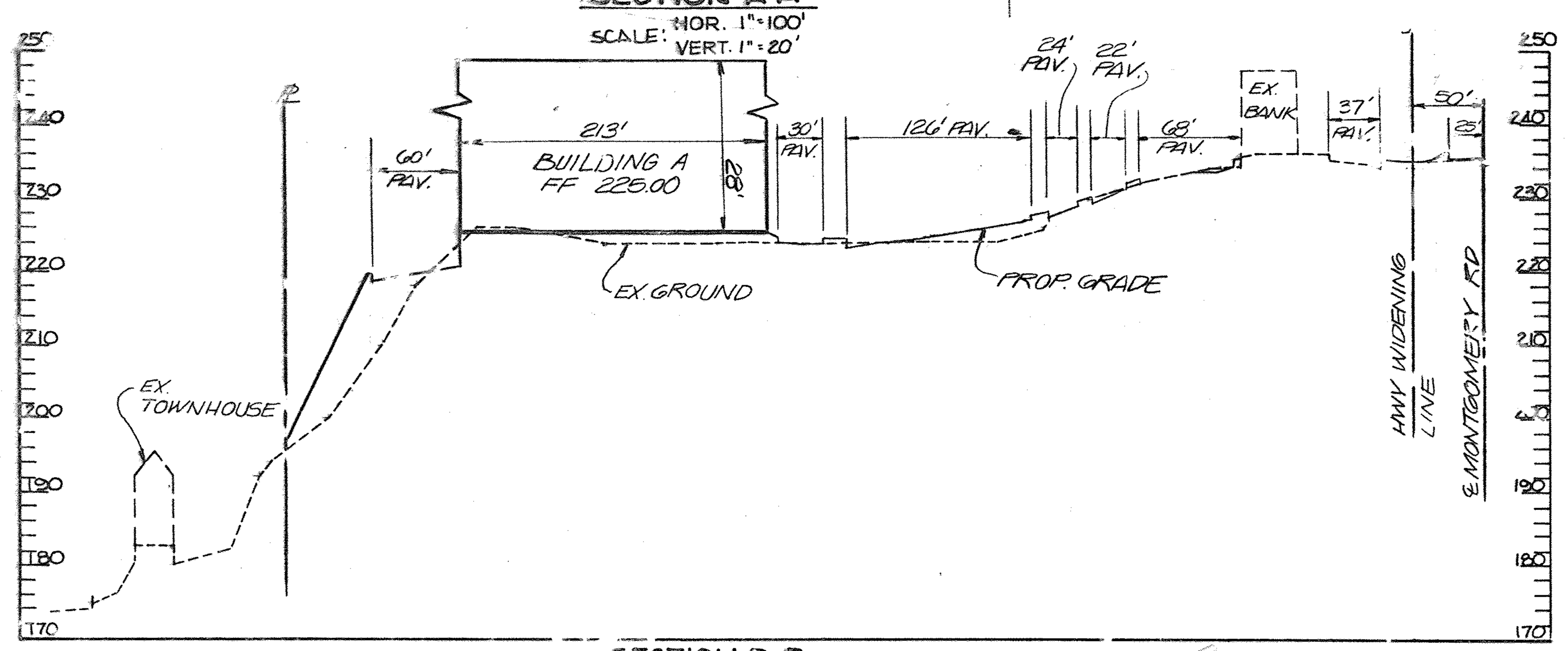
PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4/18/89
SHEET 1 OF 10

SDP 89-205



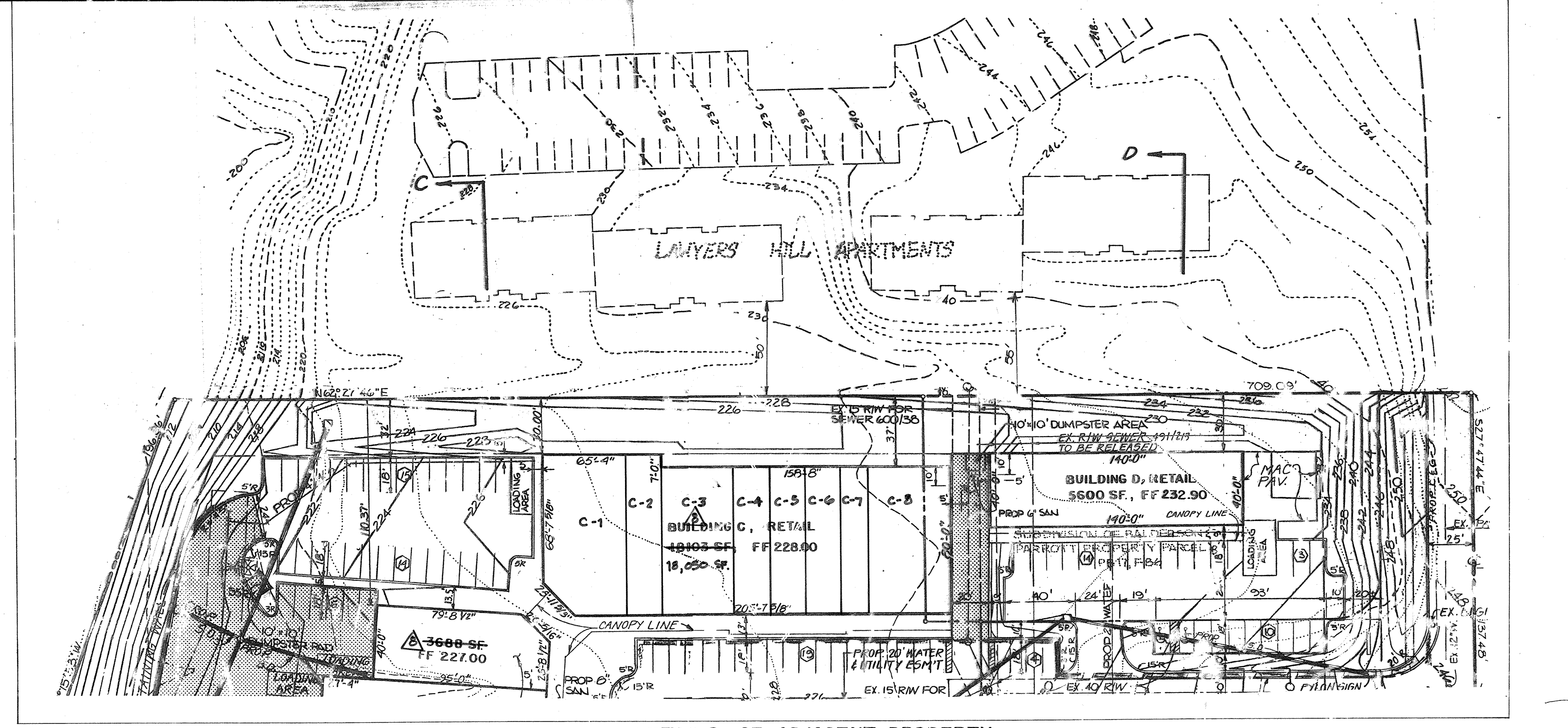
SECTION A-A

SCALE: HOR. 1"=100' VERT. 1"=20'



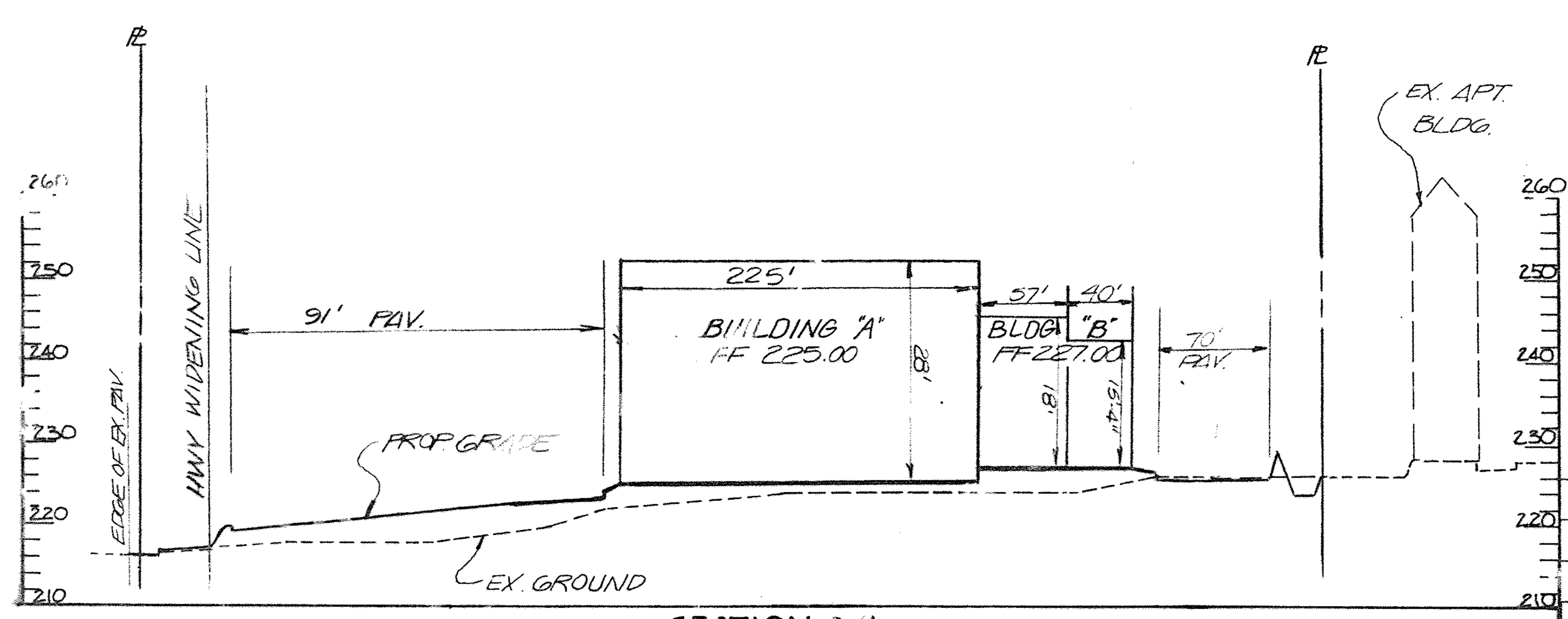
SECTION B-B

SCALE: HOR. 1"=100' VERT. 1"=20'



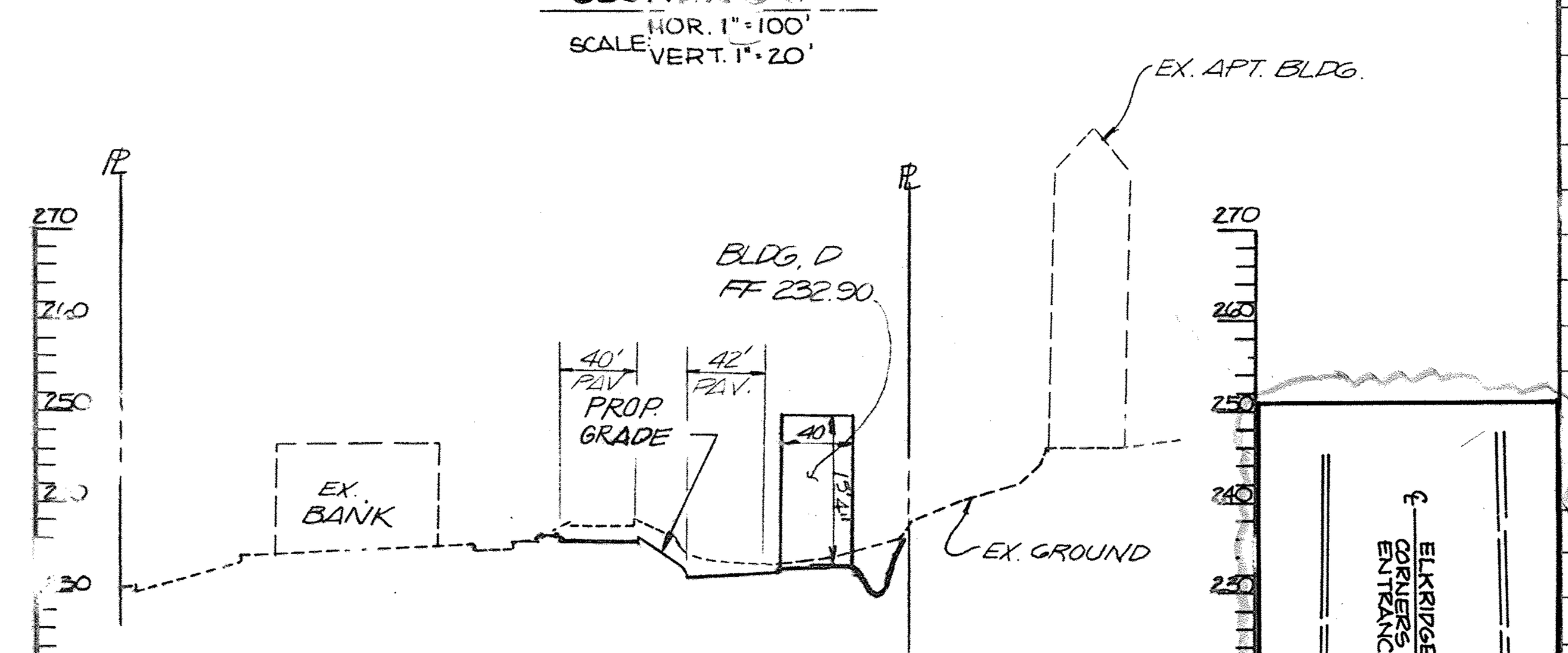
DETAILS OF ADJACENT PROPERTY

SCALE: 1" = 40'



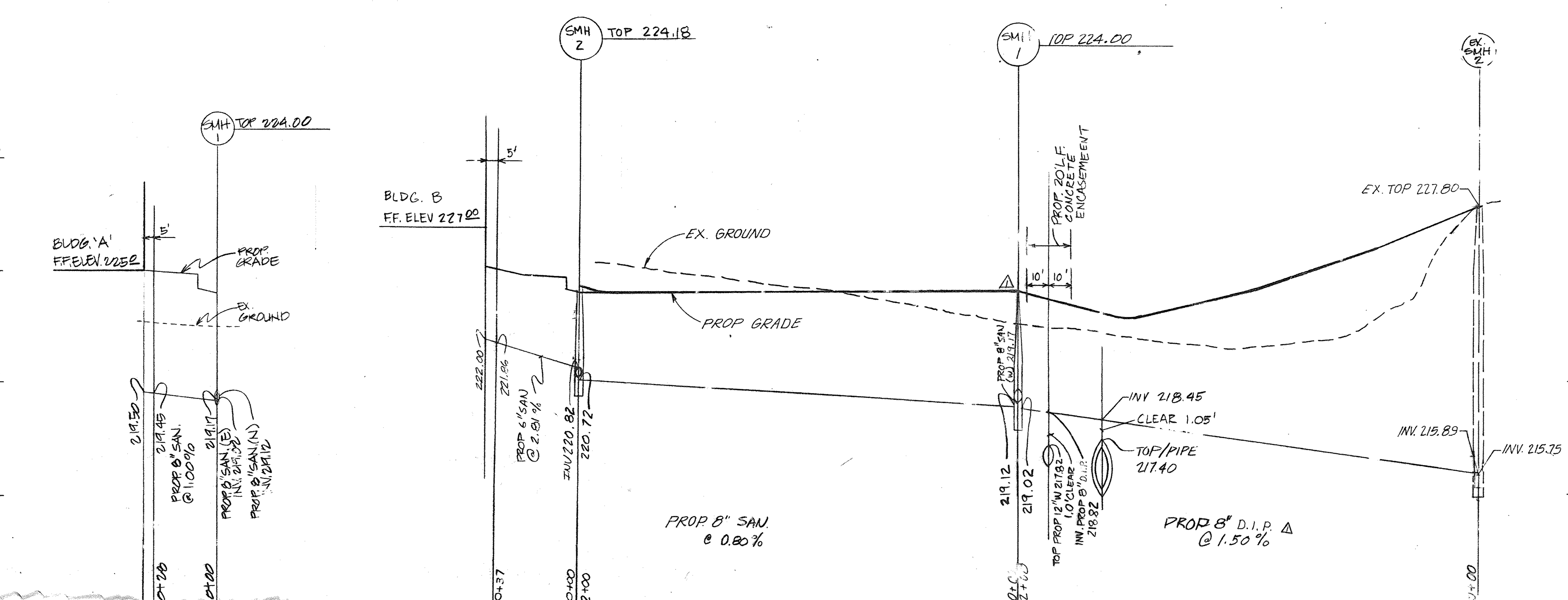
SECTION C-C

SCALE: HOR. 1"=100' VERT. 1"=20'



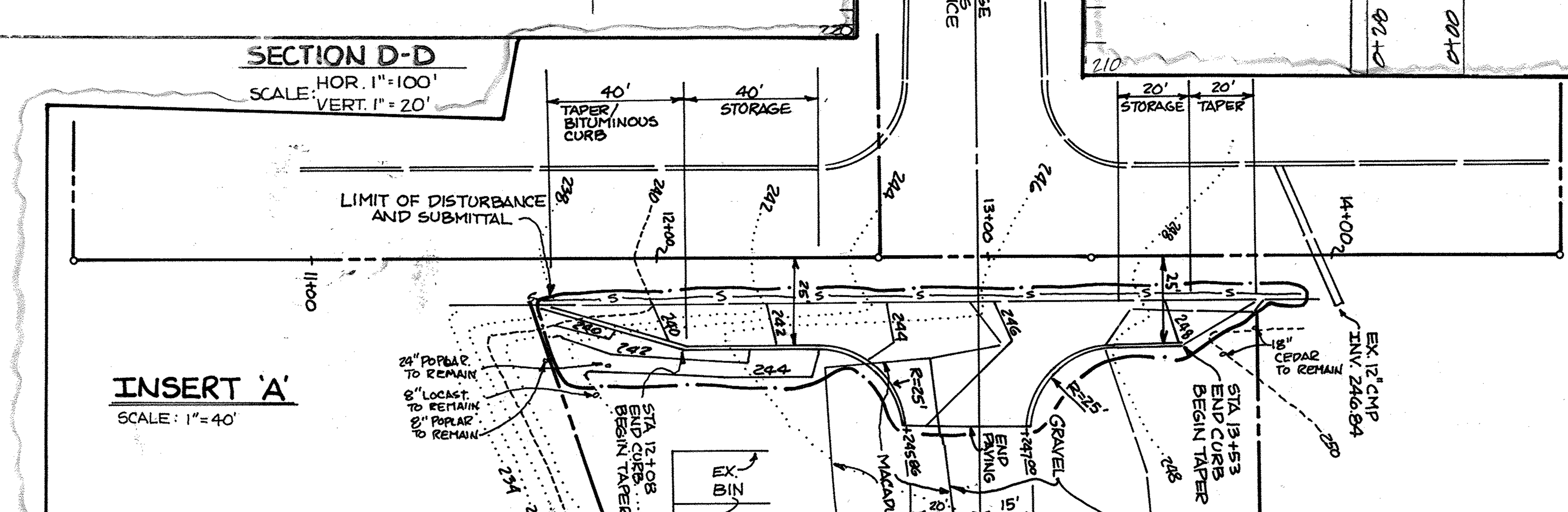
SECTION D-D

SCALE: HOR. 1"=100' VERT. 1"=20'



SANITARY SEWER PROFILE

SCALE: HOR.: 1" = 40' VERT.: 1" = 4'



INSERT 'A'

SCALE: 1"=40'

DATE	REVISION
1-31-2019	(8) BLDG. 'C' DEMISING WALL @ C-3 AND UPDATE PARKING TABULATION

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89 J.B.

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: ______ DATE: 9-20-89
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE: ______ DATE: 9/20/89
UNITED STATED SOIL CONSERVATION SERVICE

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

______ 9.27-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

______ 10.16.89
DIRECTOR DATE

______ 7/28/89
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.

______ 9/25/89
DIRECTOR DATE

______ 9.25.89
CHIEF BUREAU OF ENGINEERING DATE

GWS
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. 8930 TAPOBRATA CHAKRABARTI DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 2300
BALTIMORE, MD. 21201
301-727-8300

DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN [illegible] AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE [illegible] 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. [illegible] 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.
PARCEL A-1 DEVELOPER ______ DATE 4/19/89 PARCEL B-1 DEVELOPER ______ DATE

DESIGNED: D.P.
DRAWN: R.E.B. & M.K.
CHECKED: D.P.
P.N. 05690

REVISIONS
(1) CORRECTED INV. (W) @ SMH 1. CALLED FOR D.I.P. FROM EX. SMH 2 TO SMH 1
(2) 2/25/91 ADDED INSERT 'A'.

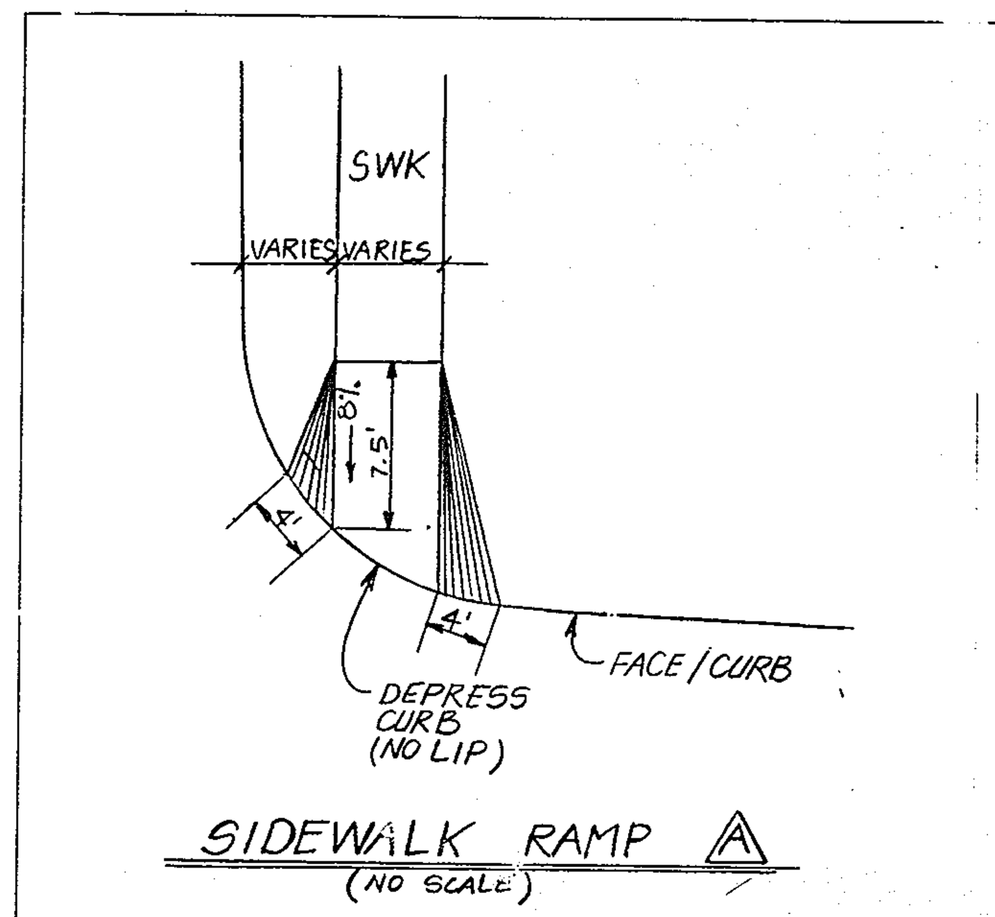
SITE DETAILS AND SANITARY SEWER PROFILE
ELKRIDGE CORNERS

TAX MAP 38
HOWARD CO., MD.
SCALE: AS SHOWN
FILE NO. S-89-08
WP-89-52
WP 89-169
PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4-18-89
SHEET 2 OF 10

SDP-87-205

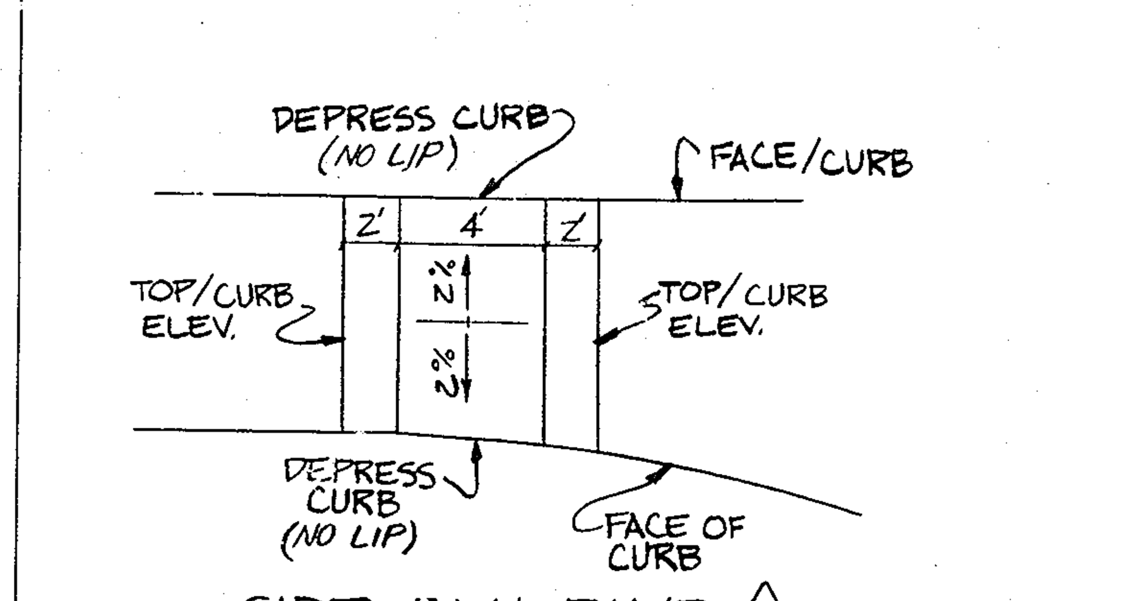
U.S. ROUTE 1 WIDENING

SCALE: 1"=40'



SIDEWALK RAMP A

(NO SCALE)



SIDEWALK RAMP C

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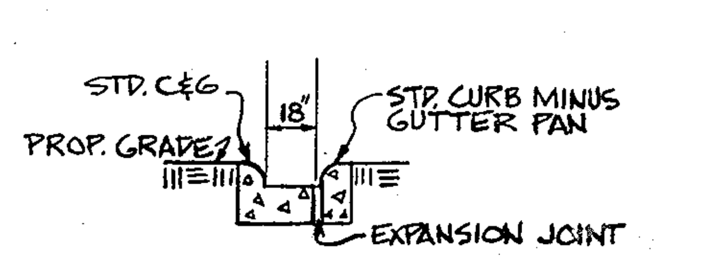
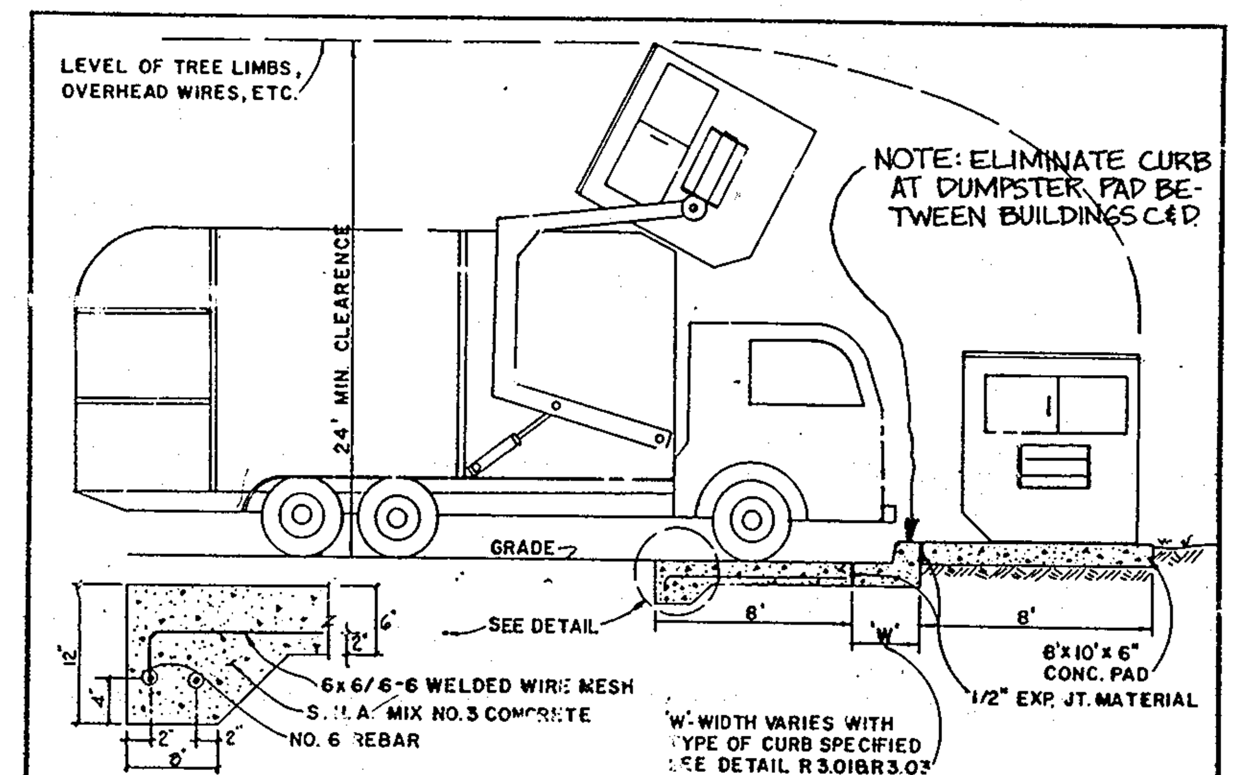


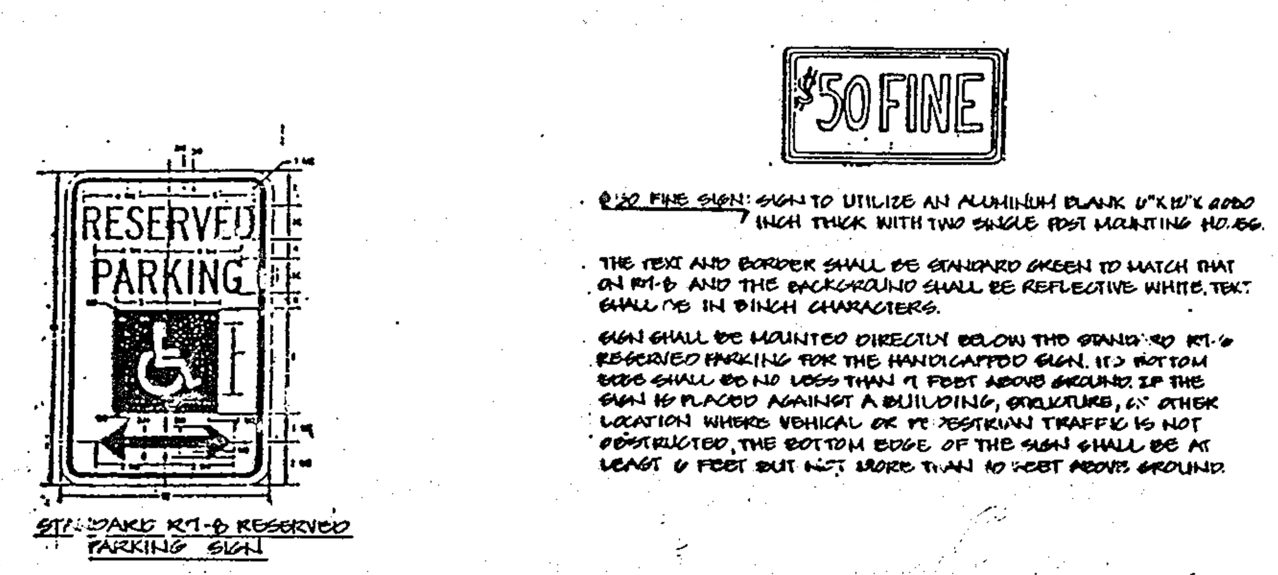
CURB OPENING DETAIL

N.T.S.



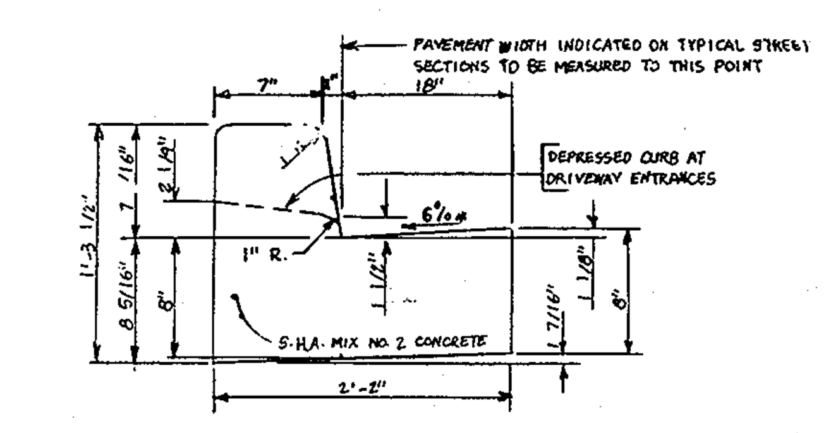
SOLID WASTE SERVICE PAD

NOT TO SCALE

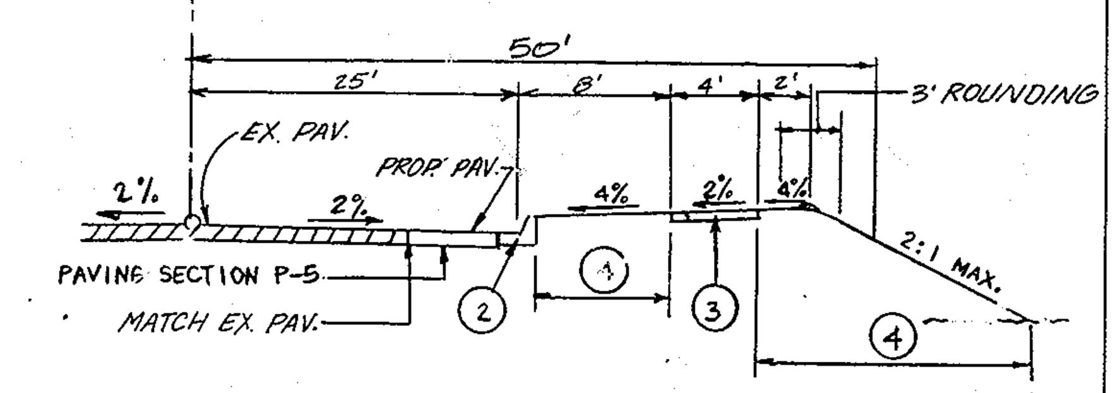


HANDICAPPED PARKING SIGN

NOT TO SCALE



HOWARD COUNTY STANDARD 7" COMBINATION CURB & GUTTER



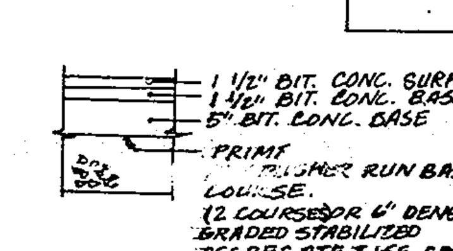
2. STD. COMB. CURB & GUTTER

3. 4" CONCRETE SIDEWALK AS REQUIRED BY SUB-DIVISION REGULATIONS.

4. INDICATES 2" TOPSOIL, SEED AND MULCH.

TYPICAL SECTION
MONTGOMERY ROAD WIDENING

NOT TO SCALE



PAVING SECTION P-5

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-18-89

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [signature] HOWARD SOIL CONSERVATION DISTRICT DATE: 9/20/89

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE: [signature] UNITED STATES SOIL CONSERVATION SERVICE DATE: 9/20/89

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

[signature] 9-27-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

[signature] 10-16-89
DIRECTOR DATE

[signature] 9/20/89
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.

[signature] 9/25/89
DIRECTOR DATE

[signature] 9-25-89
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

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: [signature] TAPOBRATA CHAKRABARTI
REG. NO. 8930 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-ELKRIDGE NATIONAL BANK
7250 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-H L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE, MD. 21201
301-727-8500

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.

PARCEL A-I DEVELOPER [signature] DATE PARCEL B-I DEVELOPER [signature] DATE

DESIGNED: D.P./N.K.
DRAWN: N.K.
CHECKED: D.P.
T.N. 05690
REVISIONS

ROAD WIDENING AND SITE DETAILS FOR
ELKRIDGE CORNERS

TAX MAP 38 FILE NO. S-89-08 PARCELS 826, 865, 799
HOWARD CO., MD. WP-89-52 ELECTION DISTRICT 1
SCALE: AS SHOWN WP 89-169 DATE: 4/18/89
SHEET 3 OF 10

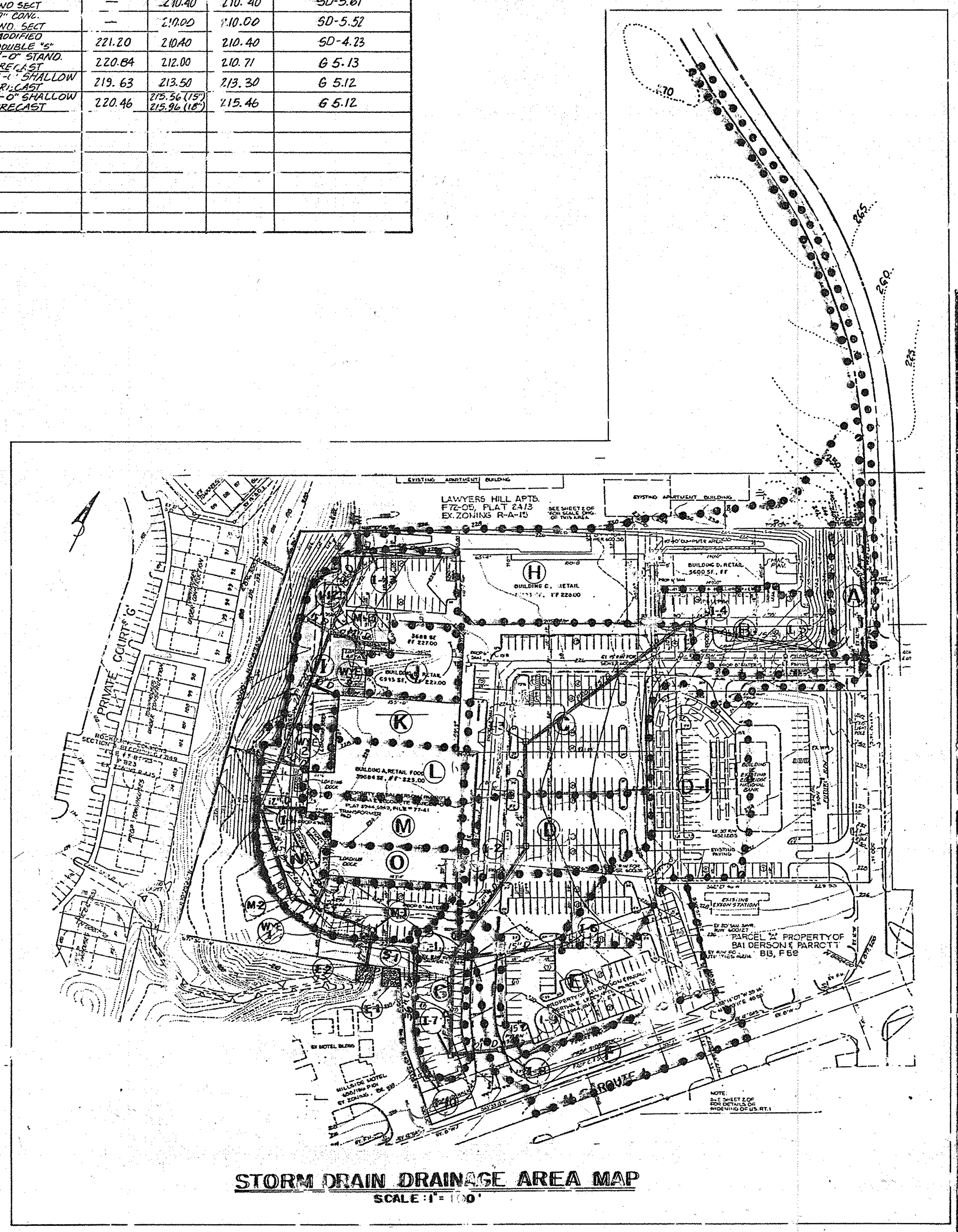
SDP-89-203

INLET SCHEDULE					
NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	SEE HO. CO. STD. DET.
1	MODIFIED "S"**	TOP/GRATE 221.72	21_.50 (24") 216.50 (15") 214.00 (18")	212.50	S.D.-4.22
2	DOUBLE "S" *	TOP/GRATE 222.15	216.20	215.34	S.D.-4.23
3	DOUBLE "S" *	TOP/GRATE 222.15	218.25	217.48	S.D.-4.23
4	"S" COMBINATION*	TOP/CURB 230.50	224.52	224.32	S.D.-4.32
5	DOUBLE "S" COMB.*	TOP/CURB 244.20	—	233.02	S.D.-4.34
6	DOUBLE "S" COMB *	TOP/CURB 222.76	—	217.90	S.D.-4.34
7	MODIFIED "S" *	TOP/GRATE 219.77	214.12	214.00	S.D.-4.22
△8	DOUBLE "S" COMB*	TOP/GRATE 218.00	215.00	214.50	S.D.-4.34
9	DOUBLE "S" COMB*	TOP/CURB 219.60	—	215.25	S.D.-4.34
10	MODIFIED DOUBLE "S" COMB. **	TOP/CURB 219.60	—	—	S.D.-4.34
11	DOUBLE "S" COMB *	TOP/CURB 219.20	214.29	214.09	S.D.-4.34
12	DOUBLE "S" COMB	TOP/CURB 219.60	—	215.76	S.D.-4.34
13	"D" INLET * (W/ 1'-0" HIGH THROAT)	TOP/GRATE 222.00	—	218.00	S.D.-4.[illegible]1

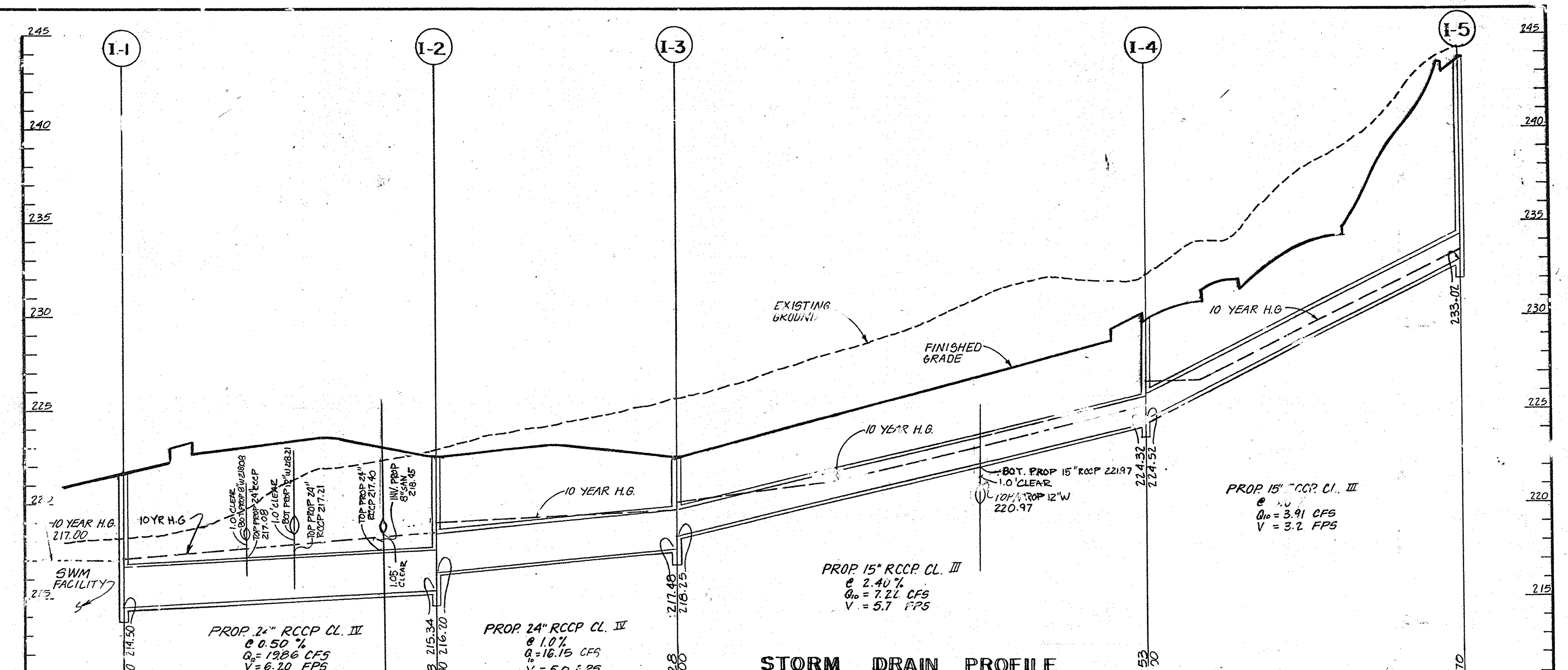
* SEE DETAIL THIS SHEET
** SEE DETAIL SHEET 6 OF 10

NO.	AC.±	'C' FACTOR
A	0.50	0.92
B	0.50	0.82
C	1.35	0.89
D	0.62	0.90
D_1	0.92	0.77
E	0.90	0.89
F	0.62	0.76
G	0.29	0.88
H	1.53	0.57
I	0.63	0.91
J	0.24	0.95
K	0.20	0.95
L	0.25	0.95
M	0.25	0.95
N	0.68	0.91
O	0.13	0.95

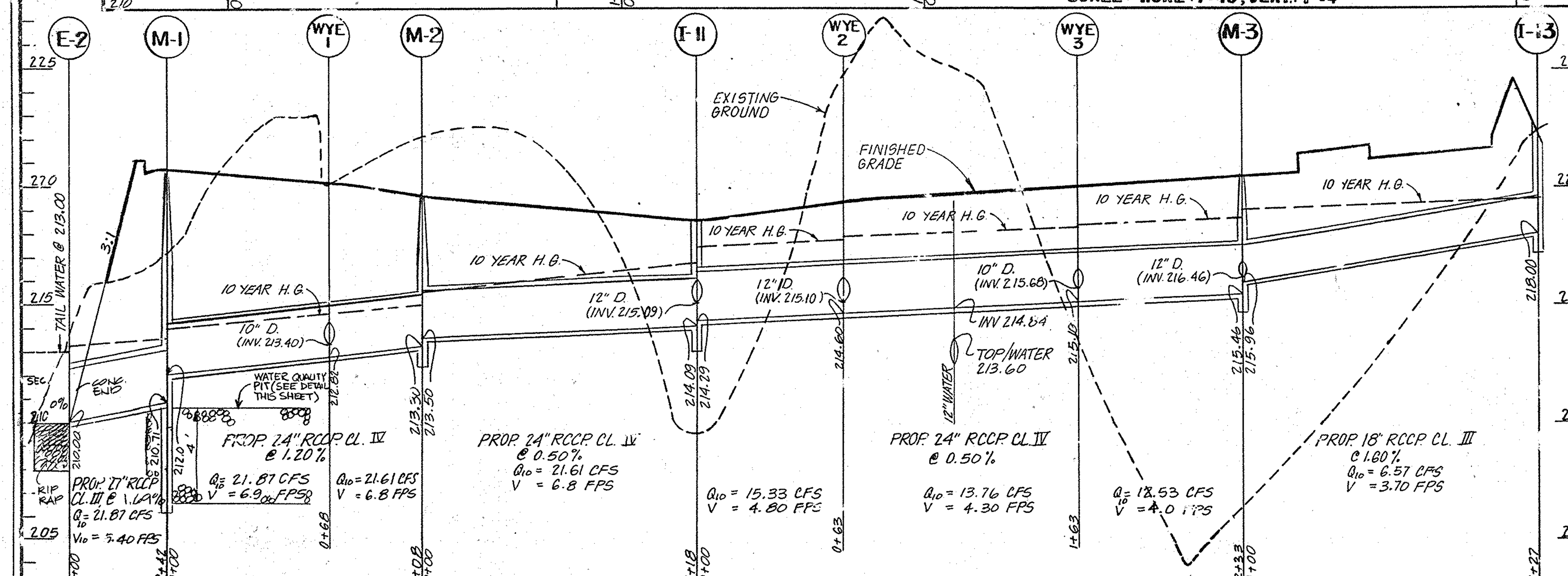
STRUCTURE SCHEDULE					
NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	SEE HO. CO. STD. DET.
E-1	36" METAL END SECT	—	210.40	210.40	SD-5.61
E-2	27" CONC. END. SECT	—	210.00	210.00	SD-5.52
S-1	MODIFIED DOUBLE "S"	221.20	210.40	210.40	SD-4.23
M-1	5'-0" STAND. PRECAST	220.84	212.00	210.71	G 5.13
M-2	4'-0" SHALLOW PRECAST	219.63	213.50	213.30	G 5.12
M-3	4'-0" SHALLOW PRECAST	220.46	215.56 (15") 215.96 (18")	215.46	G 5.12



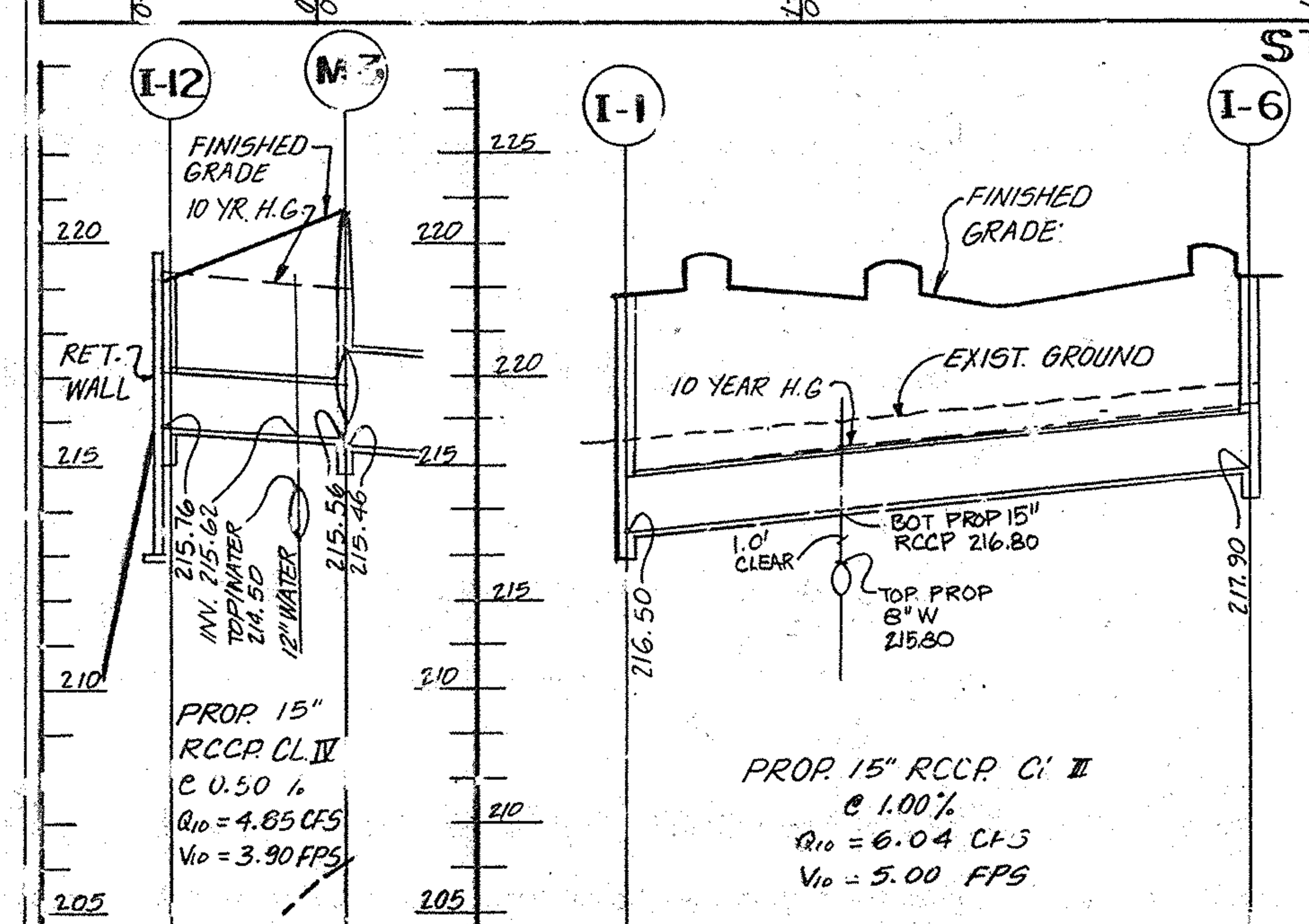
STORM DRAIN DRAINAGE AREA MAP
SCALE: 1" = 100'



STORM DRAIN PROFILE
SCALE: HORZ: 1" = 40', VERT.: 1" = 4'

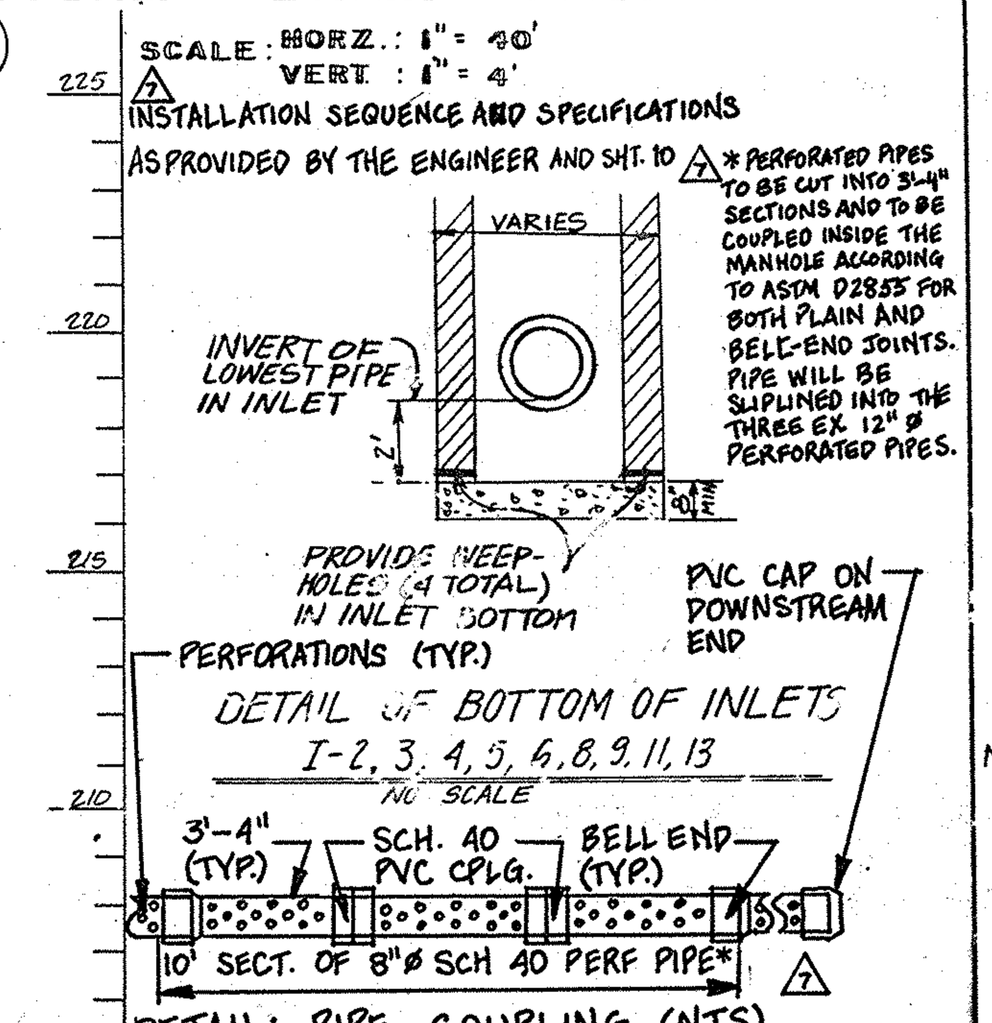


STORM DRAIN PROFILE
SCALE: HORZ.: 1" = 40'
VERT.: 1" = 4'



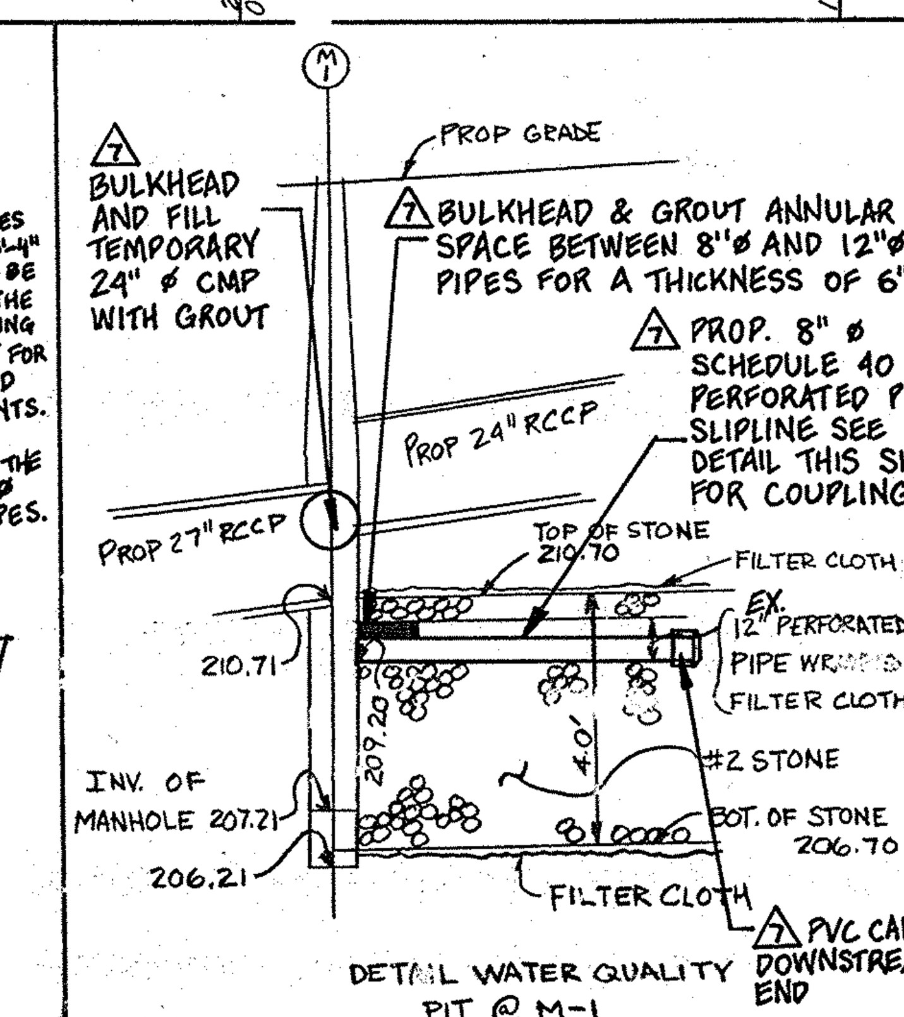
STORM DRAIN PROFILE
SCALE: HORZ.: 1" = 40'
VERT.: 1" = 4'

INSTALLATION SEQUENCE AND SPECIFICATIONS
AS PROVIDED BY THE ENGINEER AND SHT. 10



DETAIL OF BOTTOM OF INLETS
I-2, 3, 4, 5, 6, 8, 9, 11, 13
NO SCALE

DETAIL: PIPE COUPLING (NTS)



DETAIL WATER QUALITY PIT @ M-1
(NO SCALE)

For Rev △ Only
STATE OF MARYLAND EUGENE L. FLEAGLE PROFESSIONAL ENGINEER 44269
5/20/14

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: [signature] DATE: 9-20-89
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE: [signature] DATE: 9/20/89
UNITED STATED SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
[signature] 9-27-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.
[signature] 10.16.89
DIRECTOR DATE
[signature] 9/20/89
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.
[signature] 9/25/89
DIRECTOR DATE
[signature] 9.25.89
CHIEF BUREAU OF ENGINEERING DATE

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

STATE OF MARYLAND TAPOBRATA CHAKRABARTI REGISTERED PROFESSIONAL ENGINEER 8936

ENGINEERS'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: [signature] TAPOBRATA CHAKRABARTI
REG. NO. 8936 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-6300

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.
PARCEL A-1 DEVELOPER: [signature] DATE: [illegible] PARCEL B-1 DEVELOPER: [signature] DATE: [illegible]

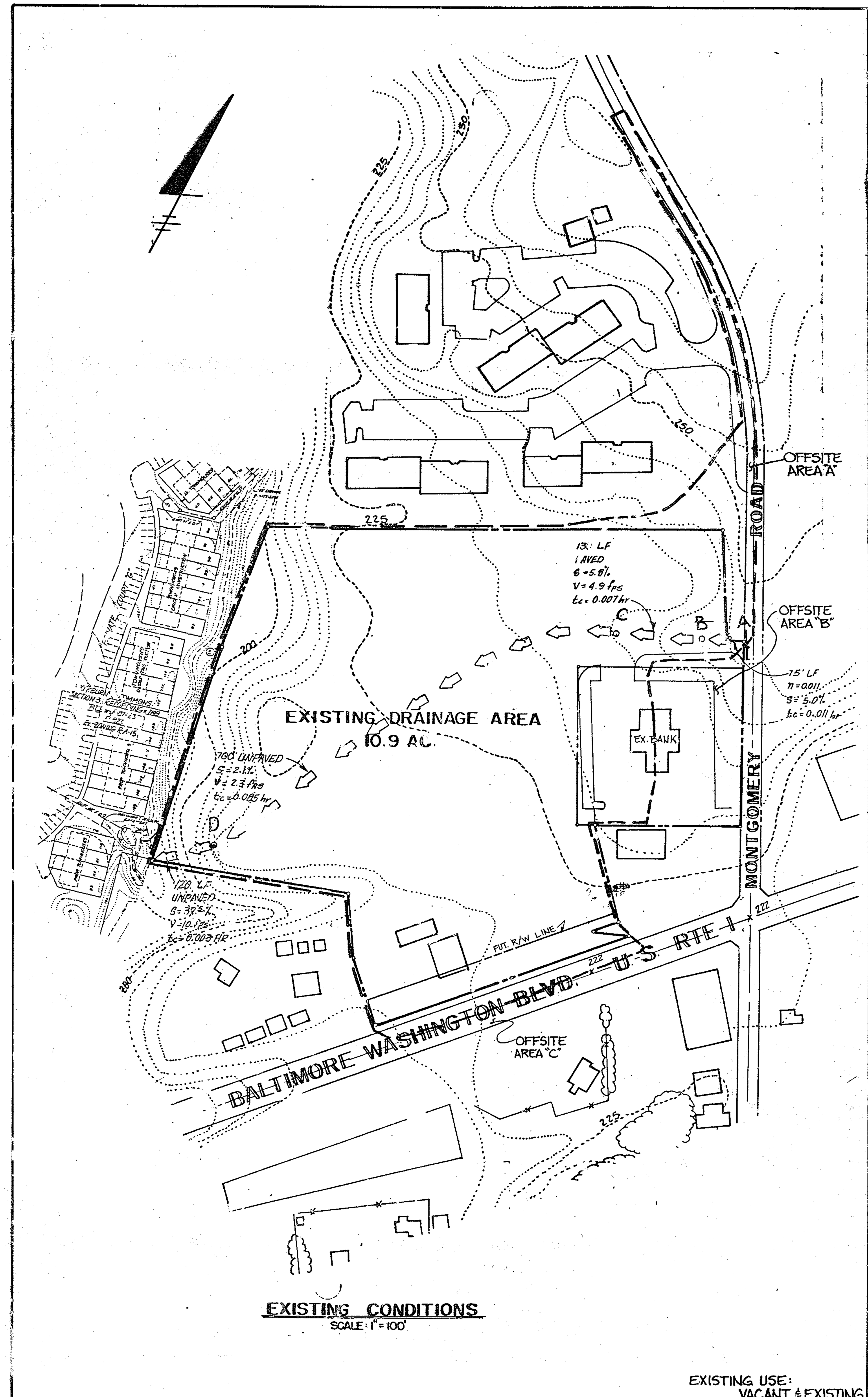
DESIGNED: N.K.
DRAWN: N.K.
CHECKED: D.P.
P.N. 05690

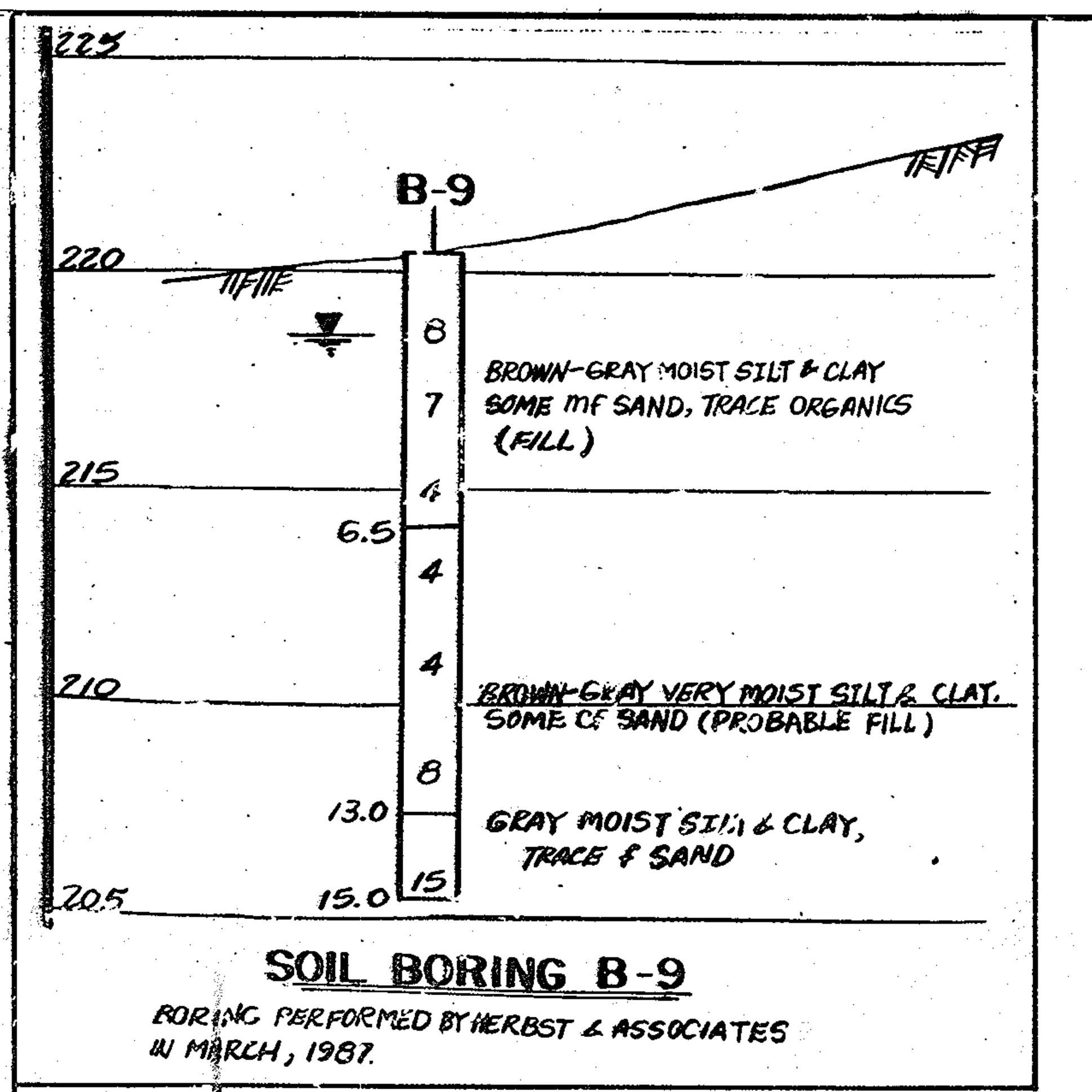
REVISIONS
△ REV. TOP GRATE ELEV. I-8 ON INLET SCHEDULE
△7 5/20/14 SWM REV. S-1 + M1

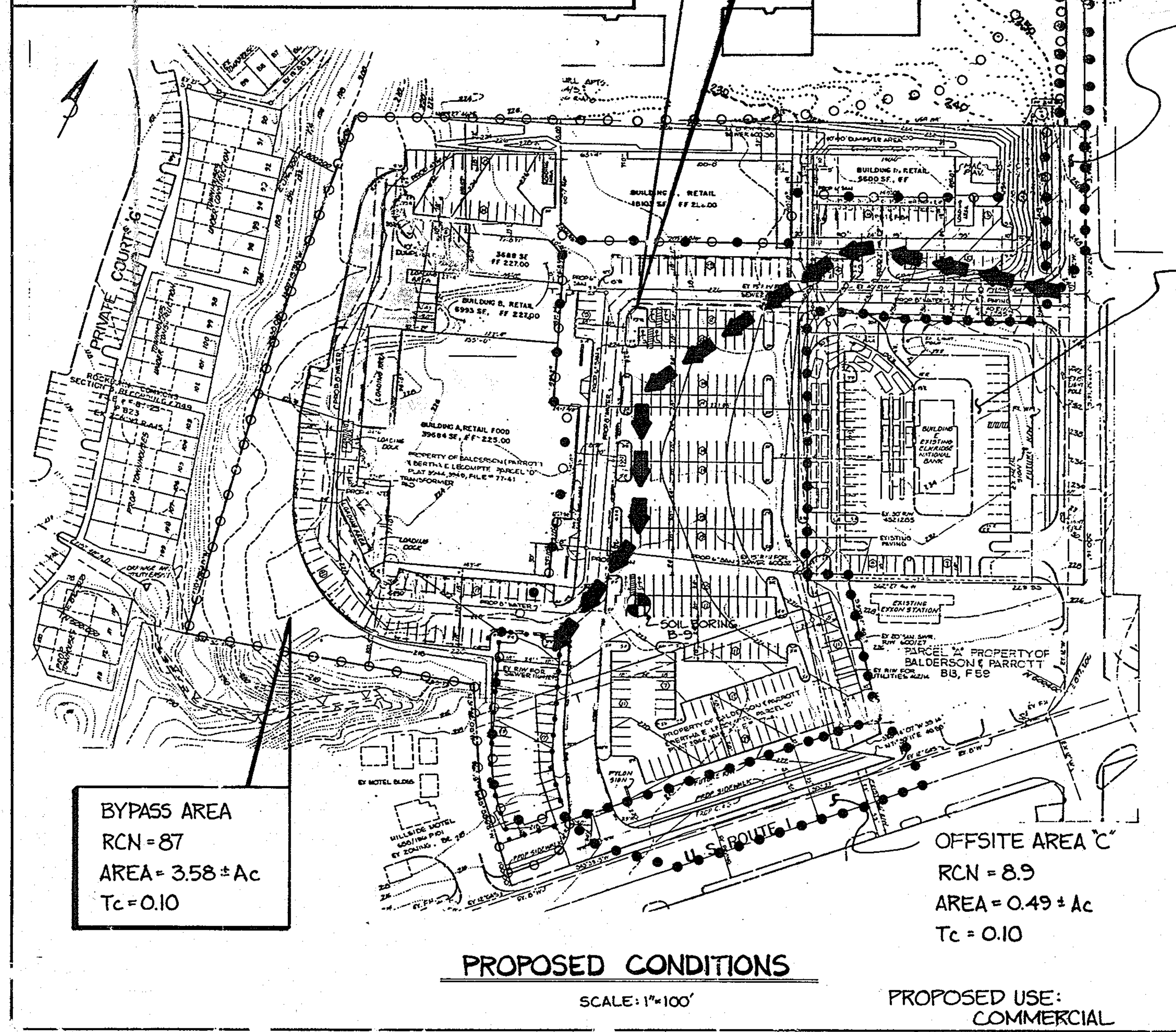
STORM DRAINS FOR
ELKRIDGE CORNERS

TAX MAP 38 | FILE NO. S-89-08 | PARCELS 826, 805, 799
HOWARD CO., MD. | WP-89-52 WP-89-169 | ELECTION DISTRICT 1
SCALE: AS SHOWN | | DATE: 4/18/89
SHEET 4 OF 10

SDP 89-205







UNDERGROUND STONE

STORM WATER MANAGEMENT

CONSTRUCTION SPECIFICATIONS

I. SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 2:1.

AREAS TO BE COVERED BY STORM WATER MANAGEMENT DEVICES WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.

II. EARTH FILL - APPLICABLE WITHIN 20' (MEASURED HORIZONTALLY) FROM AN UNDERGROUND STONE STORAGE DEVICE.

MATERIAL:

THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZE STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL SHALL BE UNIFIED SOILS CLASSIFICATION SC OR CL.

PLACEMENT:

AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED FARTHEST FROM THE STORAGE DEVICE.

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 95% OF AASHTO SPECIFICATION T-99. 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 [illegible] SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY AND IS TO BE CERTIFIED BY THE ENGINEER.

III. STRUCTURAL BACKFILL

BACKF[illegible] 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. PIPE CONDUITS

A. CORRUGATED METAL PIPE

1. MATERIALS (STEEL PIPE) - 24" OUTFALL PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENT OF AASHTO SPECIFICATION M-190 TYPE C-1 WITH WATERTIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. STEEL PIPE WHICH OUTFALLS INTO STORM WATER MANAGEMENT FACILITY SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE 'A' GA.14. THIS PIPE SHALL BE PERFORATED WITH A MINIMUM OF 16 PERFORATIONS OF 1/4 INCH IN DIAMETER PER LINEAR FOOT OF PIPE. PERFORATIONS SHALL BE IN BOTTOM HALF OF PIPE AT LEAST 22 1/2° BELOW THE HORIZONTAL AXIS.

2. CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. WATERTIGHT COUPLING BANDS SHALL BE USED AT ALL JOINTS. ANTI-SEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT.

3. BEDDING - PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. LAYING [illegible] - THE PIPE SHALL BE PLACED WITH INSIDE CIRCUMFERENTIAL LAPS POINTING DOWNSTREAM AND WITH LONGITUDINAL LAPS AT THE SIDES.

5. BACKF[illegible]ING SHALL CONFORM TO STRUCTURAL BACKFILL AS SHO[illegible]VE.

V. #2 STONE

#2 STONE SHALL MEET MSHA #2 STONE STANDARDS, FOR USE IN STONE STORAGE PITS.

VI. CONCRETE

CONCRETE SHALL MEET MINIMUM REQUIREMENTS SET FORTH IN MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL [illegible] ARTICLE 20.07 (PORTLAND CEMENT CONCRETE MIXTURES), MIX NO. 3. [illegible]FORCING STEEL SHALL BE ASTM A 615, GRADE 60, STEEL ANGLES AND ANCHOR BARS SHALL BE ASTM A 36.

VII. FILTER CLOTH

FILTER CLOTH SHALL MEET OR EXCEED ALL REQUIREMENTS IN SECTION 20.25-5 OF THE BALTIMORE COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SUITABLE FILTER FABRICS FOR DRAINAGE PURPOSES INCLUDE, BUT ARE NOT LIMITED TO, MIRAFI 140S, DUPONT TYPAR #3341 OR #3401.

VIII. GABIONS

GABIONS SHALL BE PVC COATED, CL. IV ON FILTER CLOTH, AS REQUIRED.

IX. STABILIZATION

ALL EXPOSED ONSITE SURFACES AND BORROW AREAS SHALL BE GRADED FOR PROPER DRAINAGE AND LEFT IN A STABLE CONDITION.

EXPOSED SURFACES NOT STABILIZED IN ACCORDANCE WITH THESE PLANS SHALL BE SEEDED, LIMED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN.

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-16-89

STORM WATER MANAGEMENT DATA
ELKRIDGE CORNERS
****

EXISTING CONDITIONS:

a) MONTGOMERY ROAD
D.A. = 0.44 AC
RCN = 98.0
2 YEAR FLOW = 1.58 cfs
10 YEAR FLOW = 2.54 cfs

b) ELKRIDGE BANK
D.A. = 0.69 AC
RCN = 97.0
2 YEAR FLOW = 2.45 cfs
10 YEAR FLOW = 3.95 cfs

c) BALTO. WASH. BLVD.
D.A. = 0.49 AC
RCN = 89.0
2 YEAR FLOW = 1.42 cfs
10 YEAR FLOW = 2.54 cfs

d) ELKRIDGE CORNERS
D.A. = 8.41 AC
RCN = 75.0
2 YEAR FLOW = 13.50 cfs
10 YEAR FLOW = 30.85 cfs

PROPOSED CONDITIONS:

a) ELKRIDGE CORNERS;BY PASS
D.A. = 3.58 AC
RCN = 87.0
2 YEAR FLOW = 9.71 cfs
10 YEAR FLOW = 17.85 cfs

b) ELKRIDGE CORNERS;TO BE ROUTED
D.A. = 4.51 AC
RCN = 95.0
2 YEAR FLOW = 15.43 cfs
10 YEAR FLOW = 25.42 cfs

c) TOTAL FLOW TO BE ROUTED (OFFSITE & ONSITE)

BEFORE MANAGEMENT (TO THE SWM FACILITY)
2 YEAR FLOW = 20.88 cfs
10 YEAR FLOW = 34.44 cfs

AFTER MANAGEMENT (FROM THE SWM FACILITY)
2 YEAR FLOW = 10.66 cfs
10 YEAR FLOW = 24.16 cfs

TWO YEAR STORAGE 26,052 CF (AT ELEV 215.41)
TEN YEAR STORAGE 59,800 CF (AT ELEV 217.01)

d) TOTAL FLOW COMPARISON (RELEASE FROM SITE, EXISTING FLOW VERSES PROPOSED FLOW - NOTE: TOTAL FLOW ARE ADDED HYDROGRAPHS)

TOTAL EX. FLOW	TOTAL PROP. FLOW
2 YEAR FLOW = 18.91 cfs	2 YEAR FLOW = 18.85 cfs
10 YEAR FLOW = 39.85 cfs	10 YEAR FLOW = 39.40 cfs

REQUIRED STORM WATER MANAGEMENT - TWO & TEN YEAR STORM FREQUENCY
PROVIDED STORM WATER MANAGEMENT - TWO & TEN YEAR STORM FREQUENCY

LEGEND

○ ○ ○ ○ ○ ○ ○	AREA TO BY PASS STORM WATER MANAGEMENT FACILITY
● ● ● ● ● ● ●	AREA TO BE MANAGED VIA THE STORM WATER MANAGEMENT FACILITY
⇨ ⇨ ⇨	EX. Tc PATH
➡ ➡ ➡	PROP. Tc PATH
• • • • • • •	LIMIT OF STORM WATER MANAGEMENT FACILITY

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

[signature] 9/20/89
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] 9-20-89
HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER

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

[signature] 9-27-89
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

[signature] 10.16.89
DIRECTOR

[signature] 9/28/89
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.

[signature] 9/25/89
DIRECTOR

[signature] 9-25-89
CHIEF BUREAU OF ENGINEERING

GWS

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

ENGINEERS'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: [signature] TAPOBRATA CHAKRABARTI
REG. NO 8930 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-8300

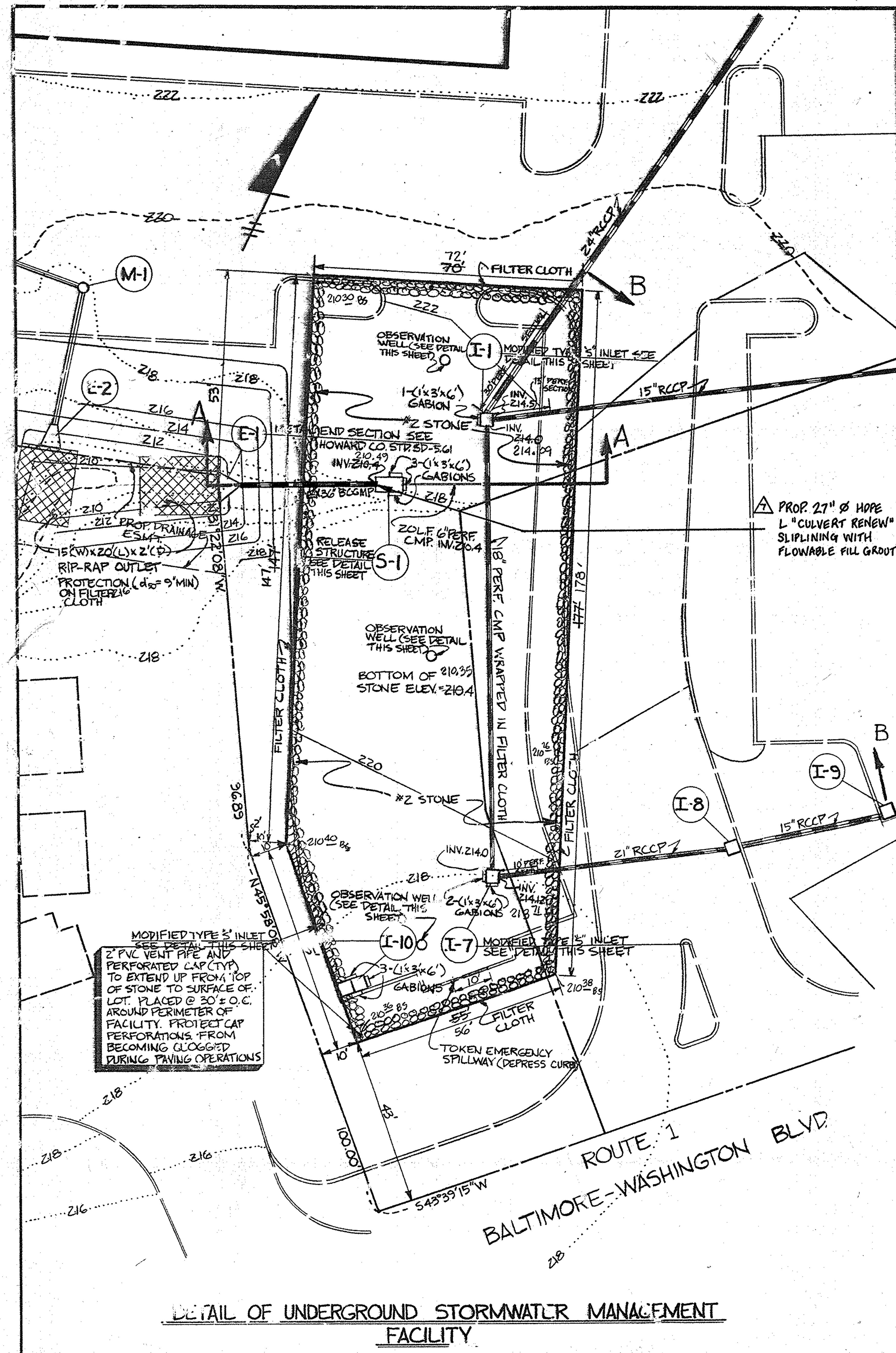
DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE [illegible] PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED PROGRAM FOR THE CONTROL OF SEDIMENT AND 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.
PARCEL A-1 DEVELOPER [signature] PRES. DATE 4/18/89 PARCEL B-1 DEVELOPER [signature] DATE 4/18/89

DESIGNED BY: C.J.B.
DRAWN BY: RGB
CHECKED BY: D.J.P.
REVISIONS:

STORM WATER MANAGEMENT DRAINAGE AREA MAP
- FOR -
ELKRIDGE CORNERS

TAX MAP 38
HOWARD CO., MD.
SCALE: 1"=100'
FILE NO. S-89-08
WP-89-52
WP-89-169
PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4/18/89
SHEET 5 OF 10

SDP 89-205

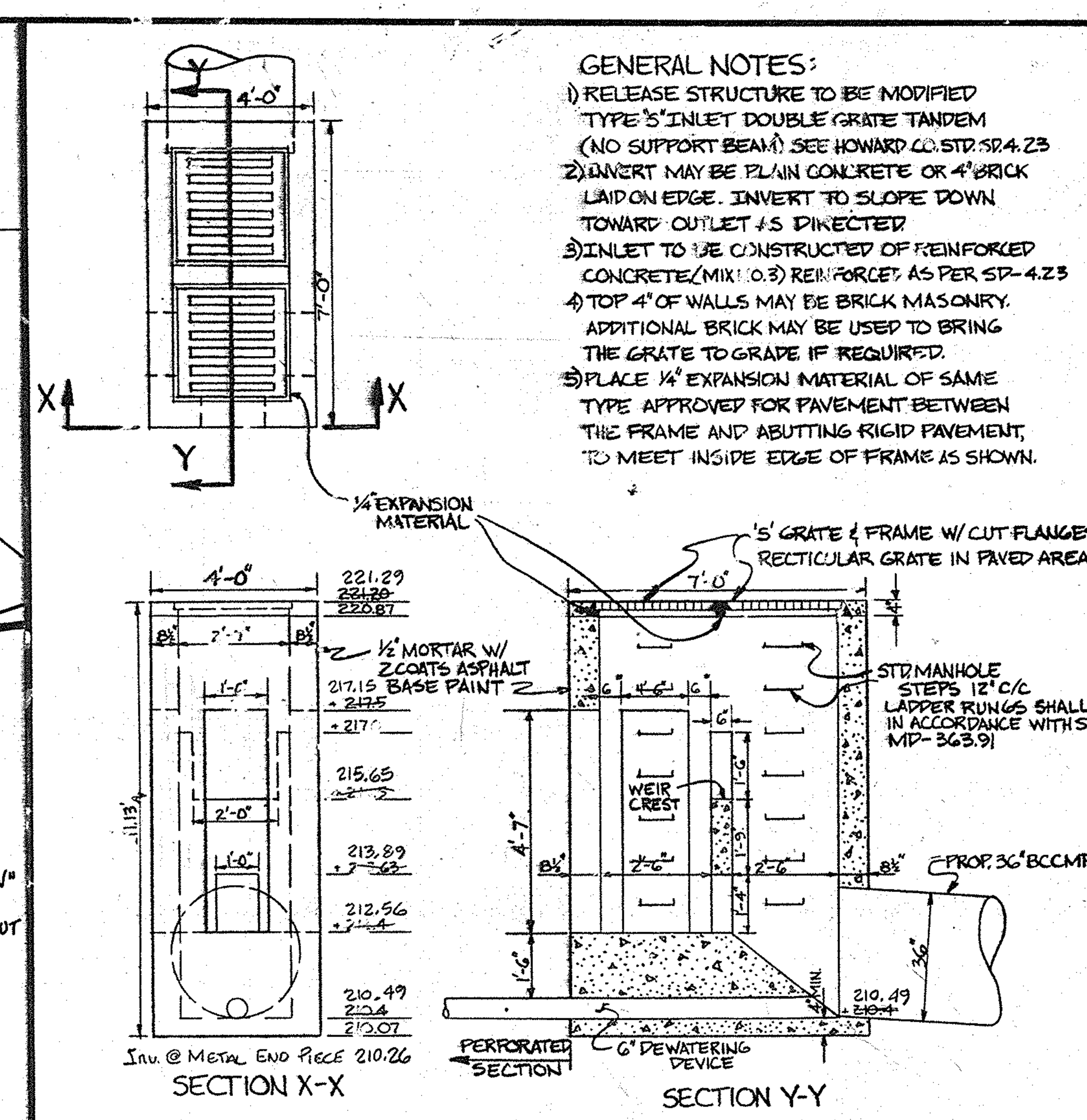


DETAIL OF UNDERGROUND STORMWATER MANAGEMENT FACILITY

SCALE: 1"=20'

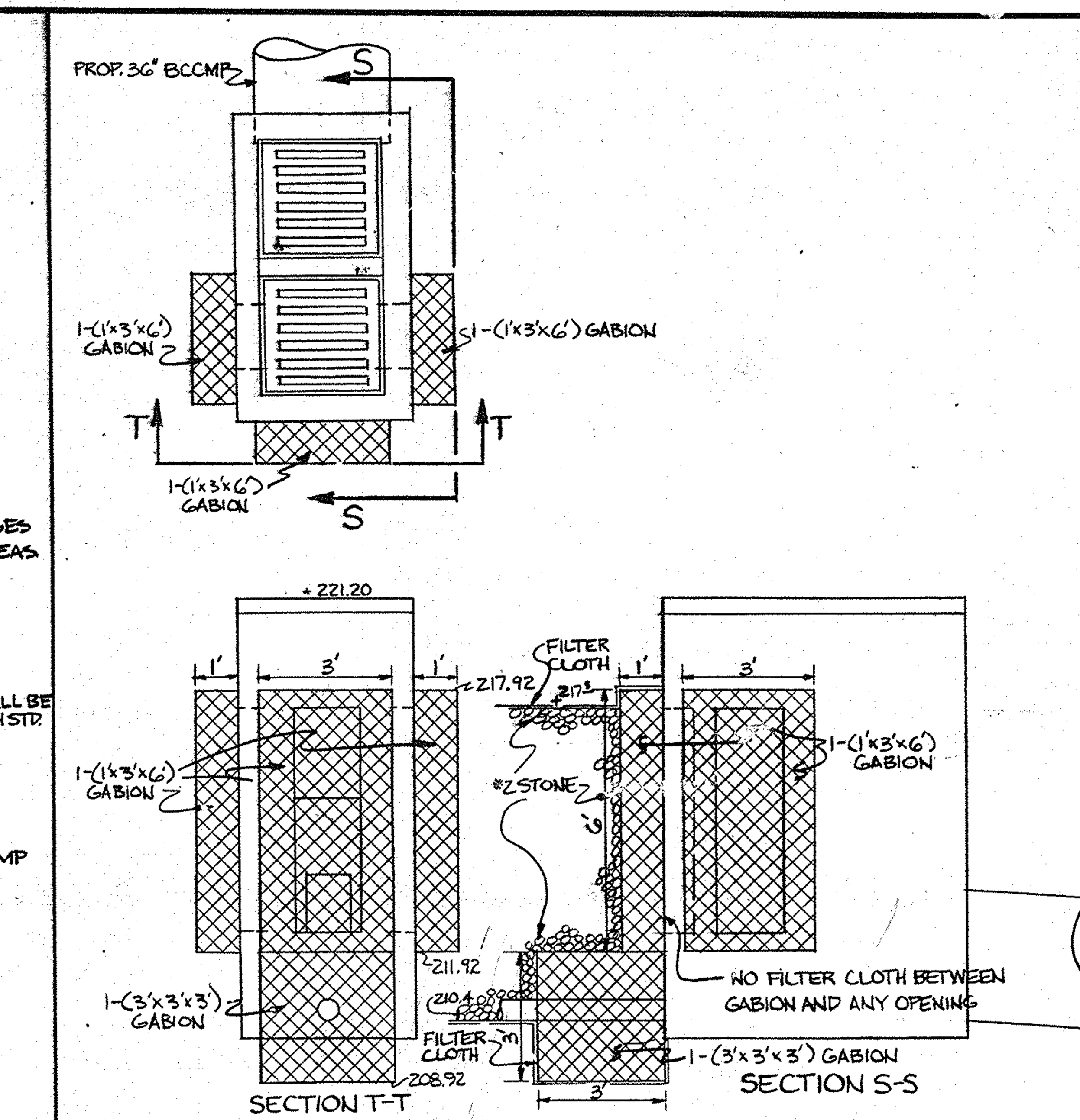
GENERAL NOTES:

1) RELEASE STRUCTURE TO BE MODIFIED TYPE 'S' INLET DOUBLE GRATE TANDEM (NO SUPPORT BEAM) SEE HOWARD CO. STD. SD.4.23
2) INVERT MAY BE PLAIN CONCRETE OR 4" BRICK LAID ON EDGE. INVERT TO SLOPE DOWN TOWARD OUTLET AS DIRECTED
3) INLET TO BE CONSTRUCTED OF REINFORCED CONCRETE (MIX NO.3) REINFORCED AS PER SD-4.23
4) TOP 4" OF WALLS MAY BE BRICK MASONRY. ADDITIONAL BRICK MAY BE USED TO BRING THE GRATE TO GRADE IF REQUIRED.
5) PLACE 1/4" EXPANSION MATERIAL OF SAME TYPE APPROVED FOR PAVEMENT BETWEEN THE FRAME AND ABUTTING RIGID PAVEMENT, TO MEET INSIDE EDGE OF FRAME AS SHOWN.



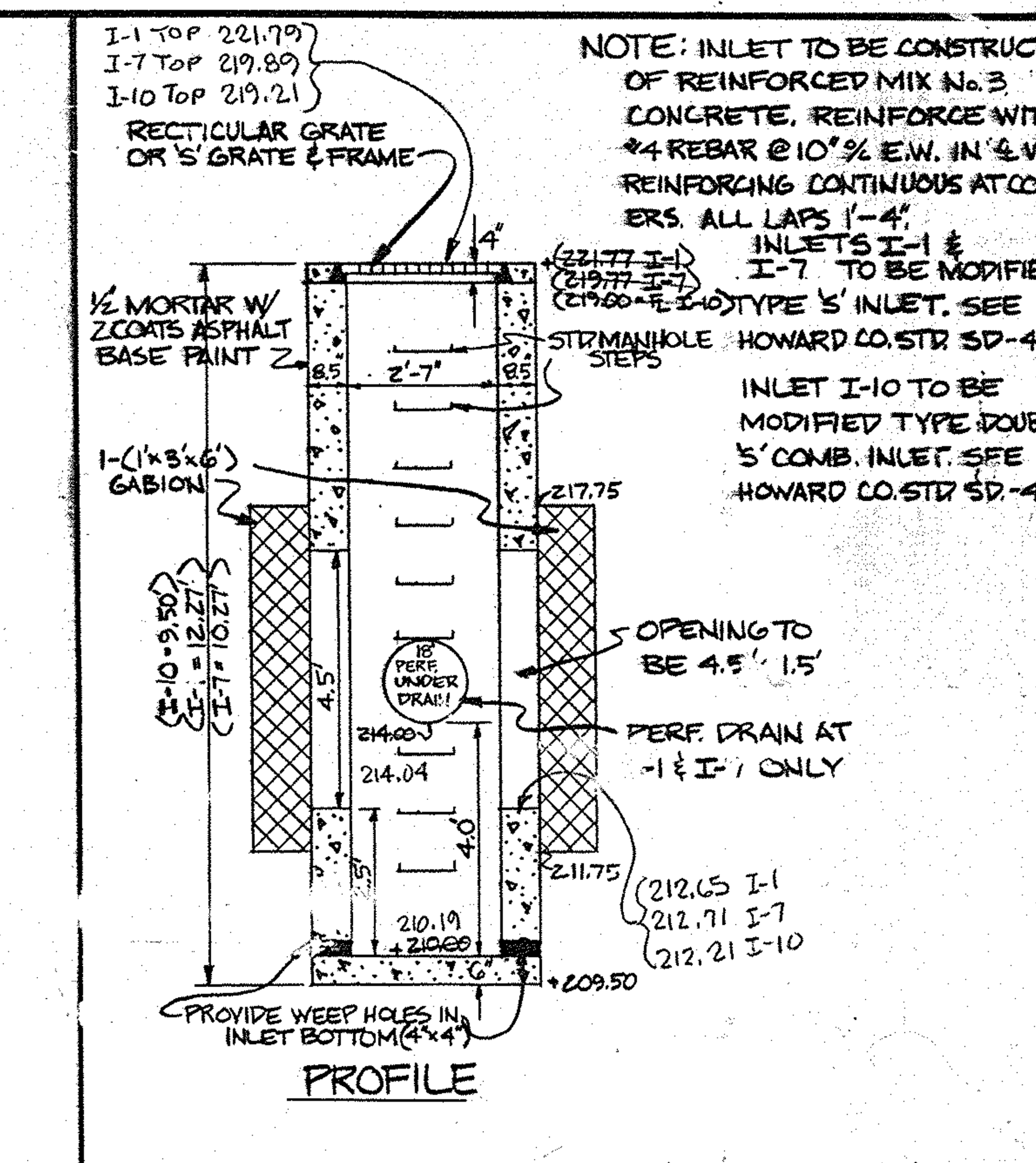
RELEASE STRUCTURE DETAIL

NO SCALE

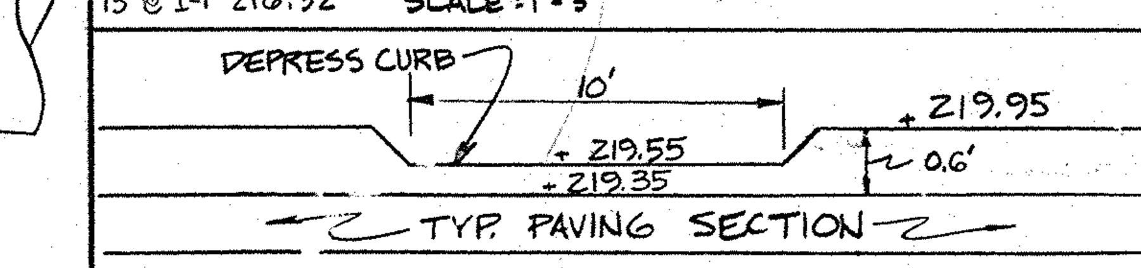


DETAIL OF GABION AT RELEASE STRUCTURE

NO SCALE

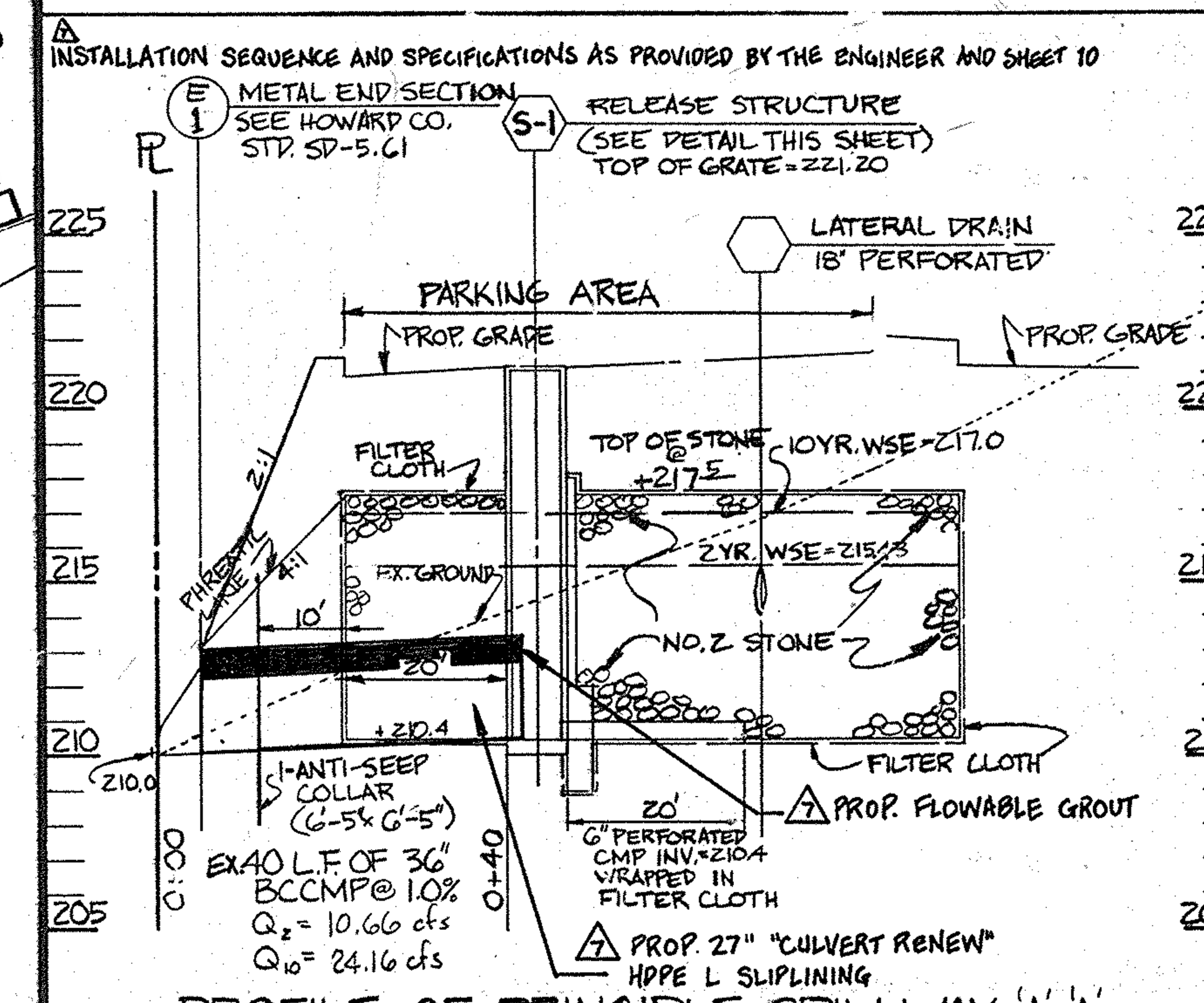


TYPICAL MODIFIED TYPE 'S' INLETS (I-1, I-7, & I-10)



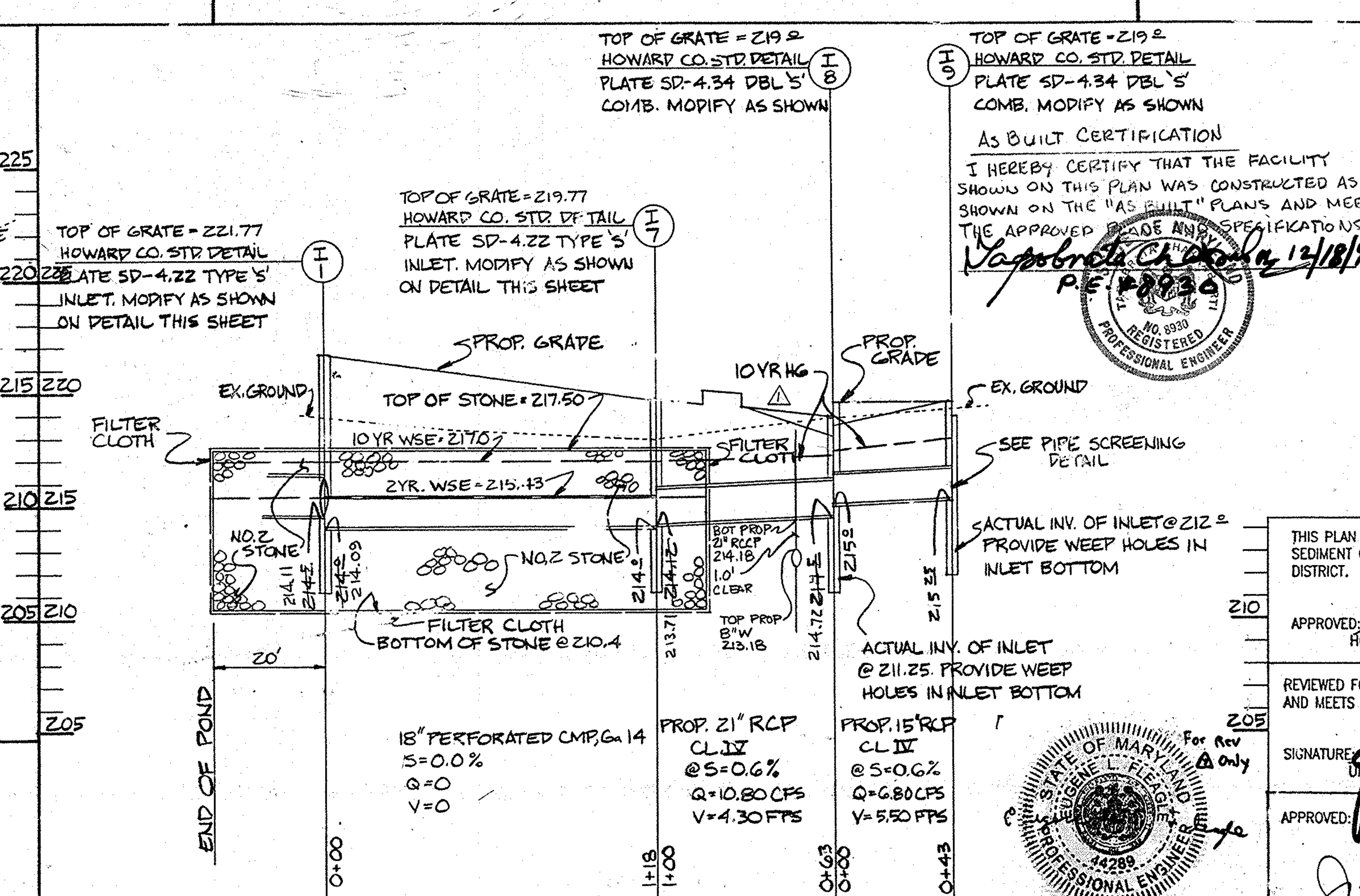
TOKEN EMERGENCY SPILLWAY

NO SCALE



PROFILE OF PRINCIPLE SPILLWAY 'A'-'A'

SCALE: HORZ. 1"=20' VERT. 1"=5'



As Built Certification

I hereby certify that the facility shown on this plan was constructed as shown on the "As Built" plans and meets the approved plans and specifications

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89

STORM DRAIN PROFILE AND PROFILE OF POND 'B'-'B'

UNDERGROUND STORMWATER MANAGEMENT

SCALE: HORZ. 1"=20' VERT. 1"=5'

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: ________ DATE: 9-20-89
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE: ________ DATE: 9/20/89
UNITED STATED SOIL CONSERVATION SERVICE

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

________ 9-27-89
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

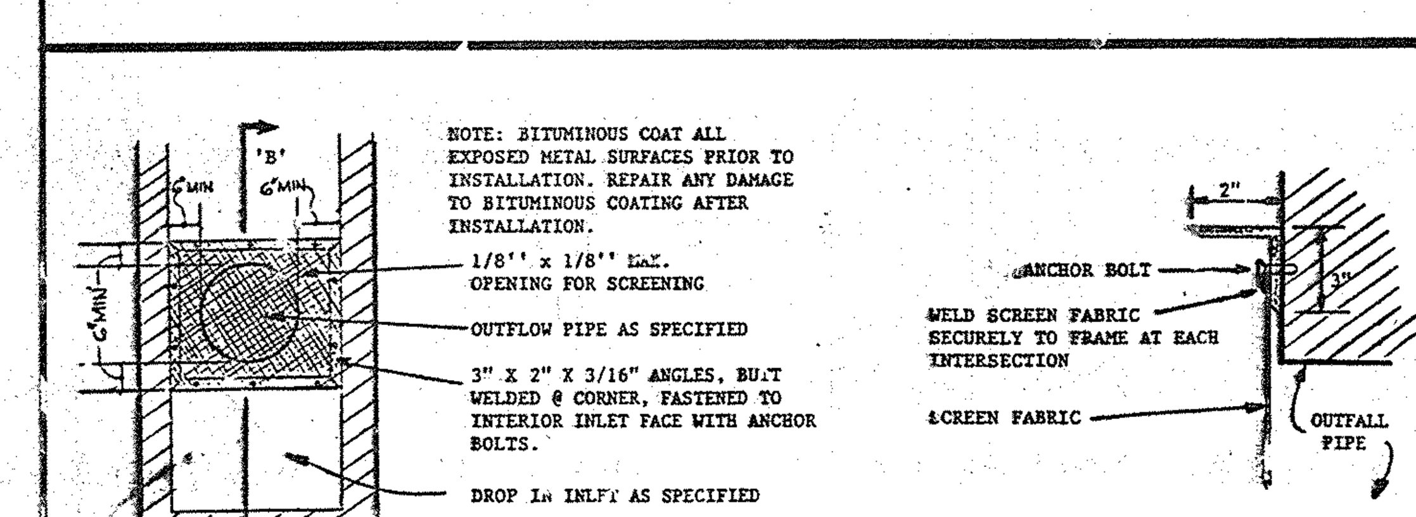
________ 10.16.89
DIRECTOR

________ 9/28/89
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.

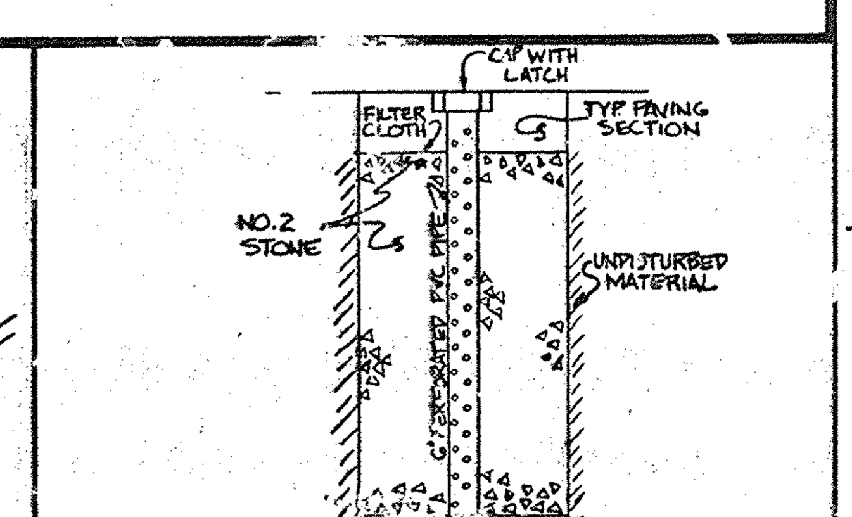
________ 9/25/89
DIRECTOR

________ 9.25.89
CHIEF BUREAU OF ENGINEERING



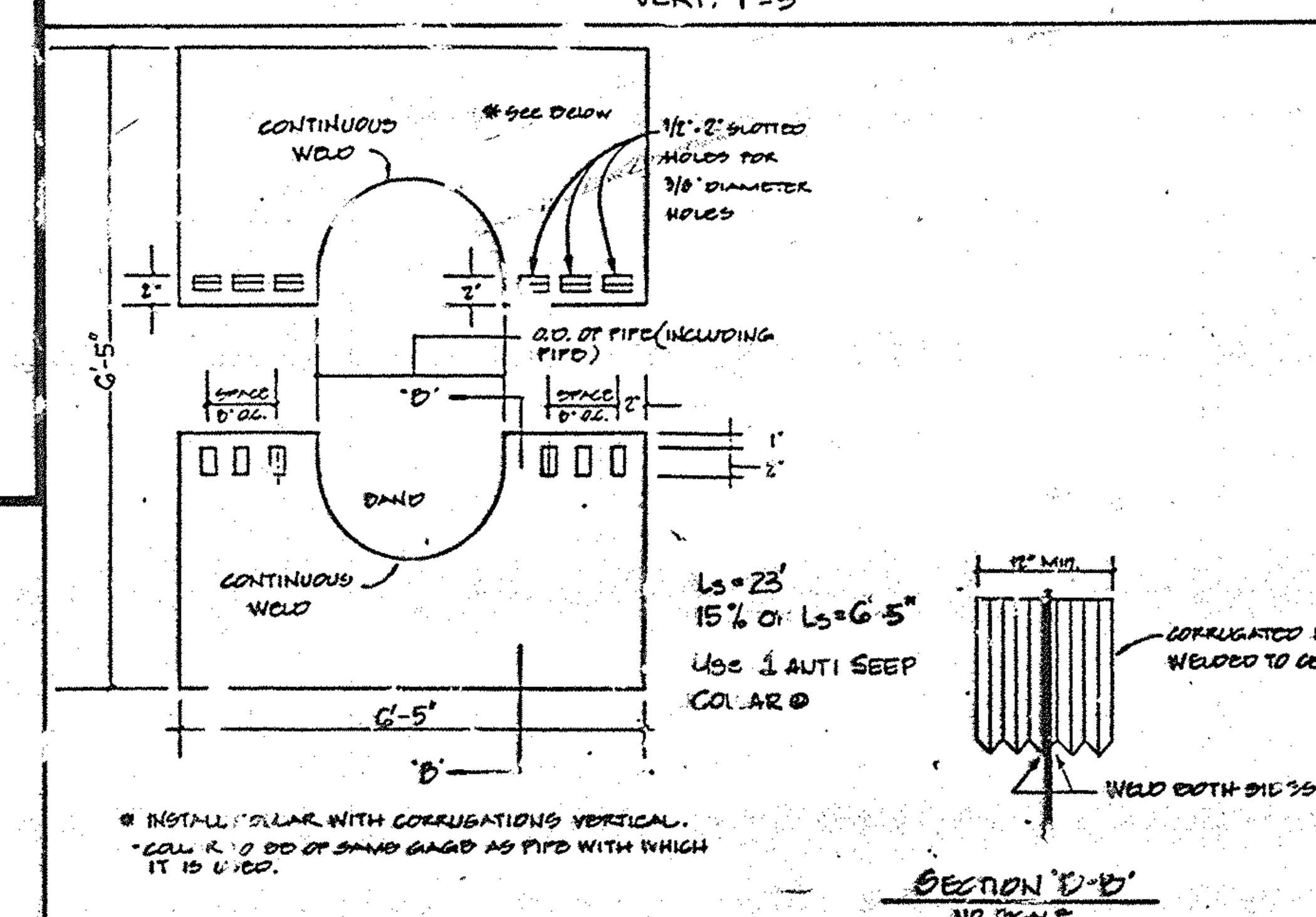
PIPE SCREENING DETAIL AT INLET

NO SCALE



OBSERVATION WELL DETAIL

NO SCALE

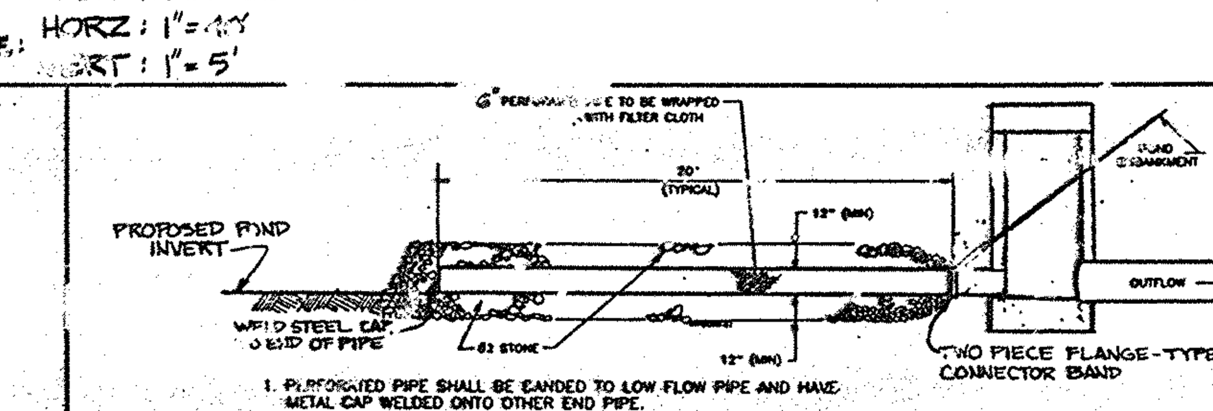


Notes:

1. All materials to be in accordance with Construction and Construction Material Specifications
2. When specified on plans, coating of collars shall be in accordance with Construction and Construction Material Specifications
3. Unassembled collars shall be marked by painting or tagging to identify matching pairs
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation
5. Each collar shall be furnished with 2 (two) 1/2" diameter rods with standard tank lugs for connecting collars to pipe
6. Collars shall be located 2' min. from all pipe joints

ANTI-SEEP COLLAR DETAIL

NO SCALE



1. PERFORATED PIPE SHALL BE BANDED TO LOW FLOW PIPE AND HAVE METAL CAP WELDED ONTO OTHER END PIPE.
2. PERFORATED PIPE SHALL BE SECURELY WRAPPED WITH APPROVED FILTER CLOTH AND COVERED ON ALL SIDES WITH 12" MINIMUM OF NO. 2 STONE.
3. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
4. SET PERFORATED PIPE AT INVERTS SPECIFIED ON STORM WATER MANAGEMENT PLANS – PRINCIPAL SPILLWAY PROFILE.

TYPICAL DETAIL
EXTENDED DETENTION POND DEWATERING DEVICE

NOT TO SCALE

GWS

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: TAPOBRATA CHAKRABARTI
REG. NO. 8930 DATE: 6/15/89

OWNERS / DEVELOPERS

PARCEL A-1 ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200

PARCEL B-1 L. & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-8300

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.

PARCEL A-1 DEVELOPER ________ DATE ________ PARCEL B-1 DEVELOPER ________ DATE ________

DESIGNED BY: C.I.B
DRAWN BY: RGB
CHECKED BY: D.J.K

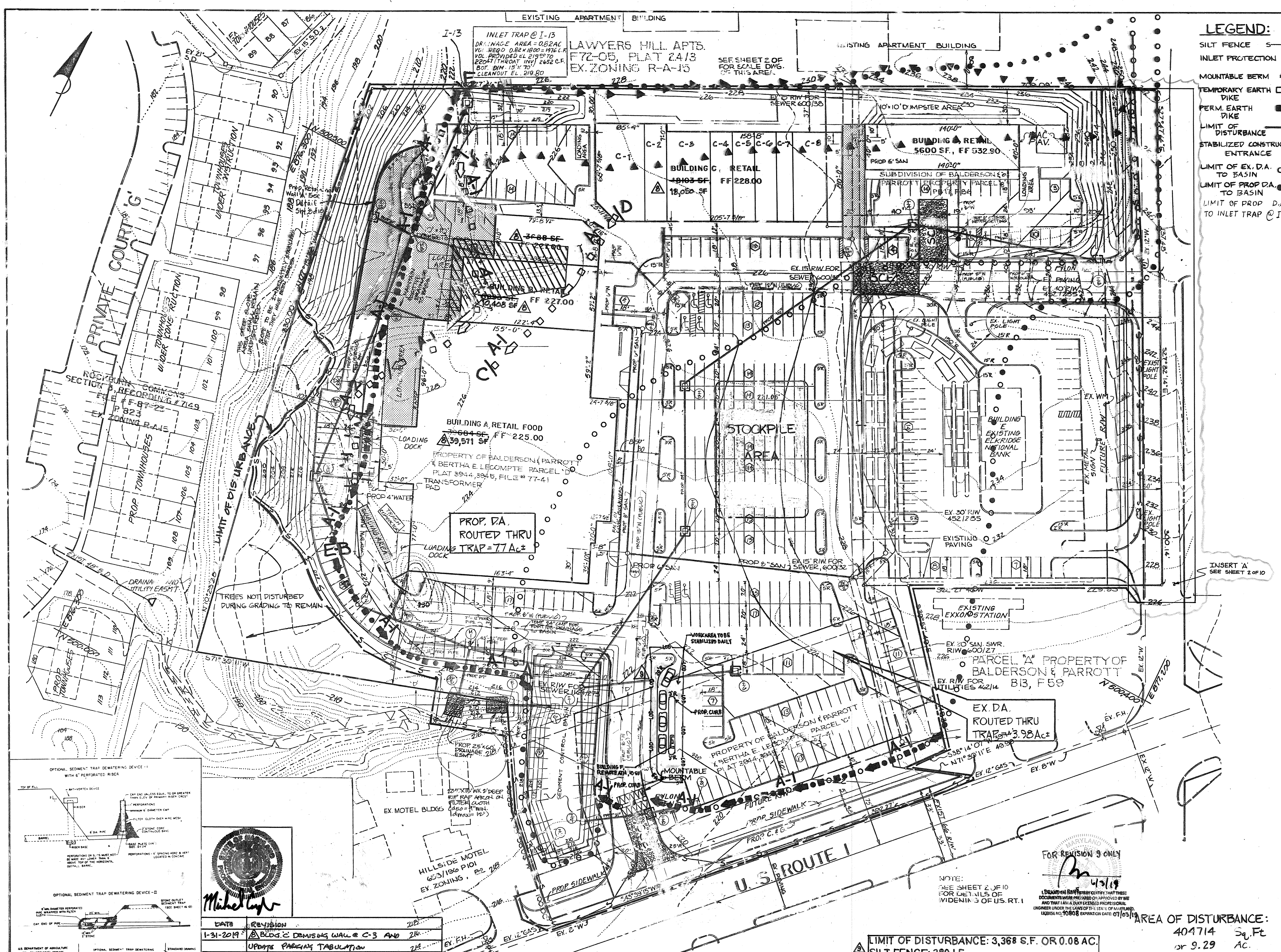
REVISIONS:
△ REV. PROP. GRADE I-8
△ 5/20/14 REV. SWM S-1 + M1

STORMWATER MANAGEMENT PROFILES AND DETAILS
- FOR -
ELKRIDGE CORNERS

TAX MAP 38 | FILE NO. S-89-08 | PARCELS 826, 885, 799
HOWARD CO., MD. | WP-89-52 WP-89-169 | ELECTION DISTRICT 1
SCALE: AS SHOWN | | DATE: 4/18/89

AS-BUILT SDP 89-205

DETAILS



FOR REVISION 9 ONLY 6/3/19
I, BRANDON ROVE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 40808 EXPIRATION DATE: 07/03/19

AREA OF DISTURBANCE: 404714 Sq. Ft or 9.29 Ac.

LIMIT OF DISTURBANCE: 3,368 S.F. OR 0.08 AC.
SILT FENCE: 280 LF

DATE	REVISION
1-31-2019	8 BLDG. C DEMISING WALL @ C-3 AND UPDATE PARKING TABULATION
4/2/19	9 ADD REMOTE ATM AND UPDATE PARKING TABULATION

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD SOIL CONSERVATION DISTRICT DATE: 9-20-89

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE: UNITED STATED SOIL CONSERVATION SERVICE DATE: 9/20/89

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

COUNTY HEALTH OFFICER 9-27-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

DIRECTOR 10.16.89

CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT 9/20/89

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

DIRECTOR 9/26/89

CHIEF BUREAU OF ENGINEERING 9.25.89

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

ENGINEERS'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: TAPOBRATA CHAKRABARTI
REG. NO. 8936 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE, MD. 21201
301-727-8300

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.
PARCEL A-1 DEVELOPER DATE 4/19/89
PARCEL B-1 DEVELOPER DATE 4/18/89

DESIGNED BY: CIB
DRAWN BY: RGB
CHECKED BY: DJP

REVISIONS:
1. 2/25/91 ADDED INSERT 'A'.

EROSION AND SEDIMENT CONTROL -FOR- ELKRIDGE CORNERS

TAX MAP 38 FILE No. S-89-08
HOWARD CO., MD. WP-89-52 WP-89-169
SCALE: 1"=40'
PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4/18/89
SHEET 7 OF 10

SDP-89-205

CONSTRUCTION SPECIFICATIONS

Site Preparation

Areas under the embankment shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. In order to facilitate clean-out and restoration, the pool area (measured at the top of the pipe spillway) will be cleared of all brush, trees, and other objectionable materials.

Cut-off-Trench

A cut-off trench shall be excavated along the centerline of earth fill embankments. The minimum depth shall be two feet. The cut-off trench shall extend up both abutments to the riser crest elevation. The minimum bottom width shall be four feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Compaction requirements shall be the same as those for embankment. The trench shall be dewatered during the backfilling-compaction operations.

Embankment

The fill material shall be taken from approved areas shown on the plans. It shall be clean mineral soil free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classes GW, GP, SW & SP) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed six-inch to eight-inch thick continuous layers over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 10 percent higher than the design height to allow for settlement.

Pipe Spillways

The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight band assemblies. (See page 18.22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

A minimum depth of two feet of hand compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment. Steel base plates on risers shall have at least 2-1/2 feet of compacted earth, stone or gravel placed over it to prevent flotation.

Emergency Spillway

The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of ± 0.2 feet.

Vegetative Treatment

Stabilize the embankment and emergency spillway in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven(7) days.

Erosion and Pollution Control

Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws shall be complied with concerning pollution abatement.

Safety

State and local requirements shall be met concerning fencing and signs, warning the public of hazards of soft sediment and floodwater.

Maintenance

1. Repair all damages caused by soil erosion and construction equipment at or before the end of each working day.
2. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or flood plain.

Final Disposal

When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to remain open space the pond may be pumped dry, graded and back filled.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

1) Preferred — Apply 2 tons per acres dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
2) 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. Harrow of disk 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) Use sod. Option (3) 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.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: -- Apply 60 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 October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/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 gal 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.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

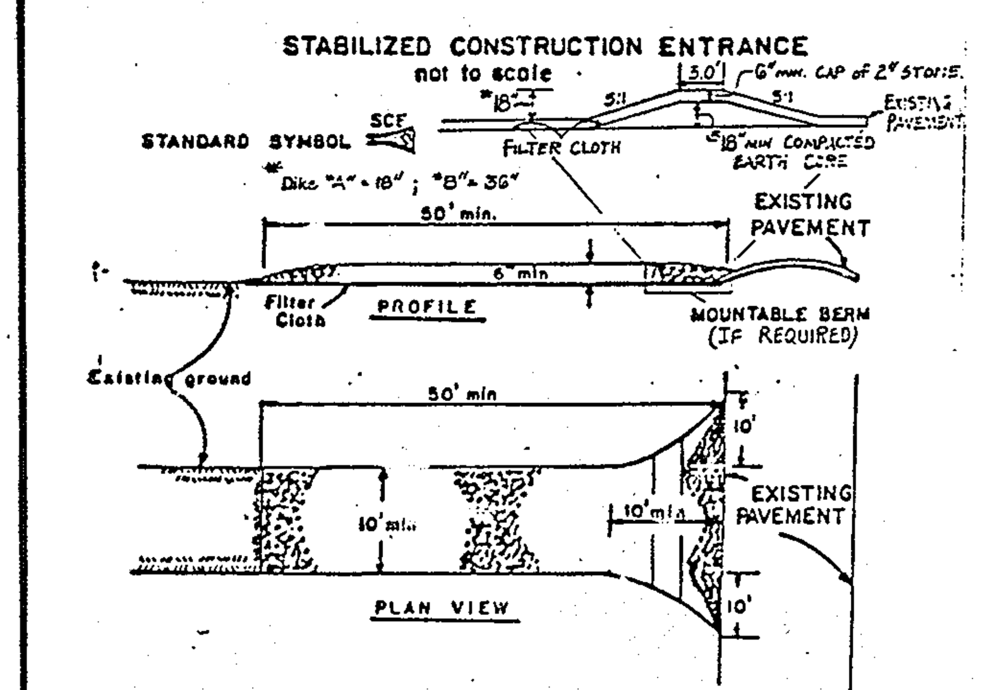
1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redisturbance, 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 site.
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 Analysis:

Total Area of Site	10.472	Acres
Area Disturbed	9.29	Acres
Area to be roofed or paved	7.742	Acres
Area to be vegetatively stabilized	2.21	Acres
Total Cut	17,500	Cu. yds
Total Fill	17,500	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 DPW 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.

STABILIZED CONSTRUCTION ENTRANCE

not to scale

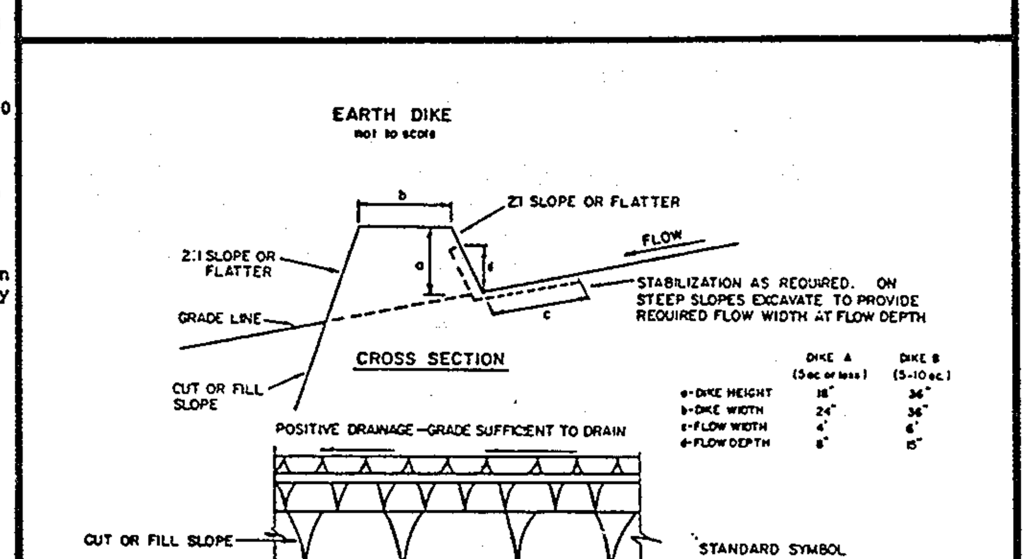


CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 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. Filter 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 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
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 with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1

EARTH DIKE



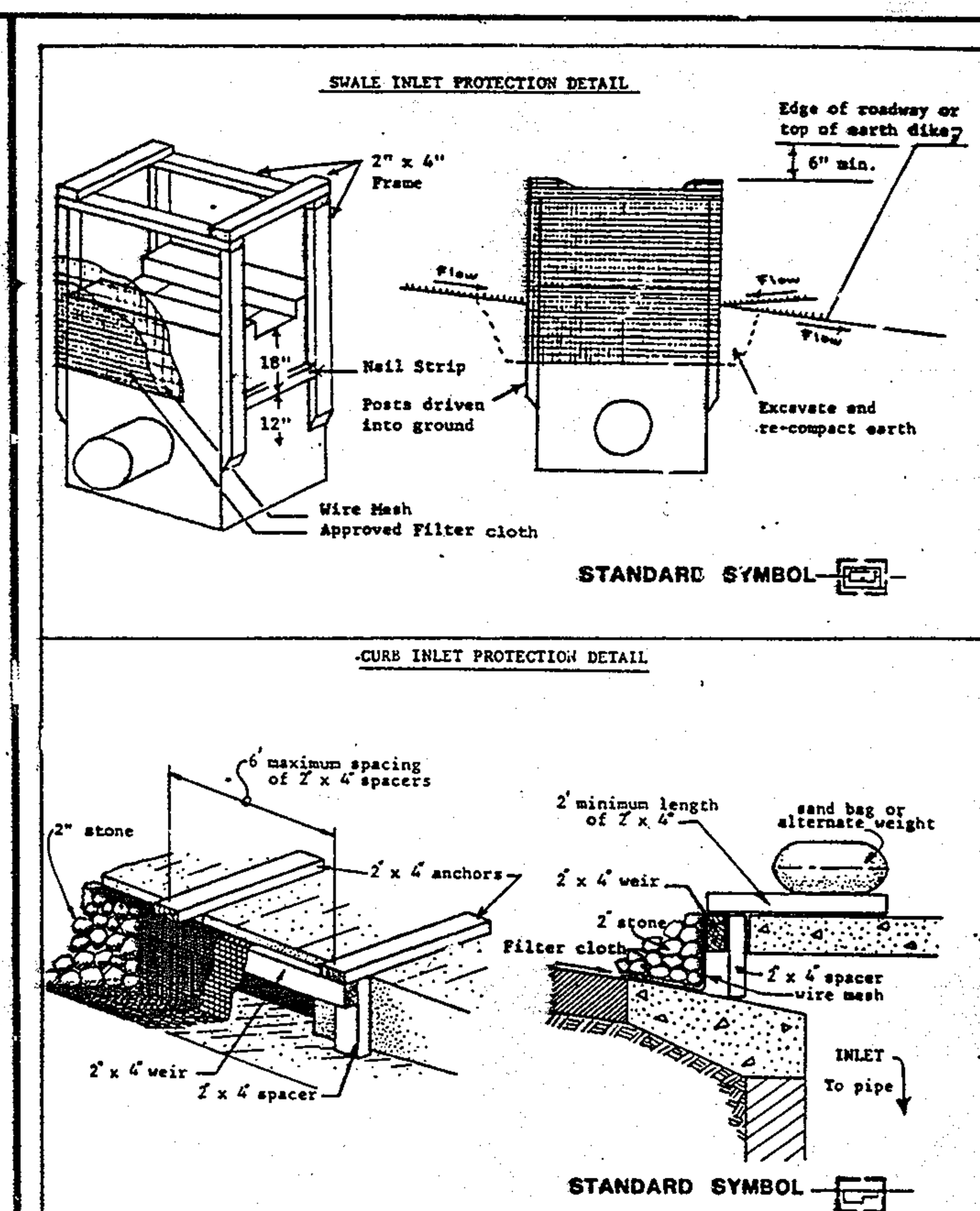
CONSTRUCTION SPECIFICATIONS

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE	STANDARD DRAWING ED-1

SWALE INLET PROTECTION DETAIL / CURB INLET PROTECTION DETAIL



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	INLET PROTECTION DETAIL	STANDARD DRAWING IPD—1

Construction Specifications INLET PROTECTION

I. Materials

A. Wooden frame is to be constructed of 2" x 4" construction grade lumber.

B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.

C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40-85, to allow sufficient passage of water and removal of sediment.

4. Stone is to be 2" in size and clean, since fines would clog the cloth.

II. Procedure

A. A swale, ditchline or yard inlet protection.

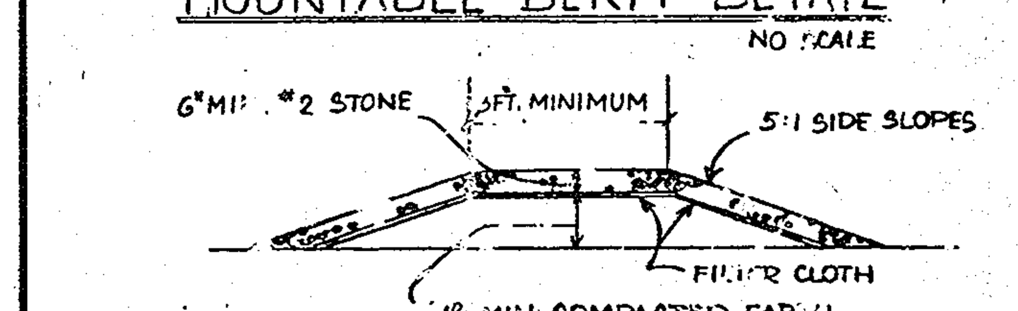
1. Excavate completely around inlet to a depth of 18" below notch elevation.
2. Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
6. If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
7. This structure must be inspected frequently and the filter fabric replaced when clogged.

B. Curb Inlet Protection.

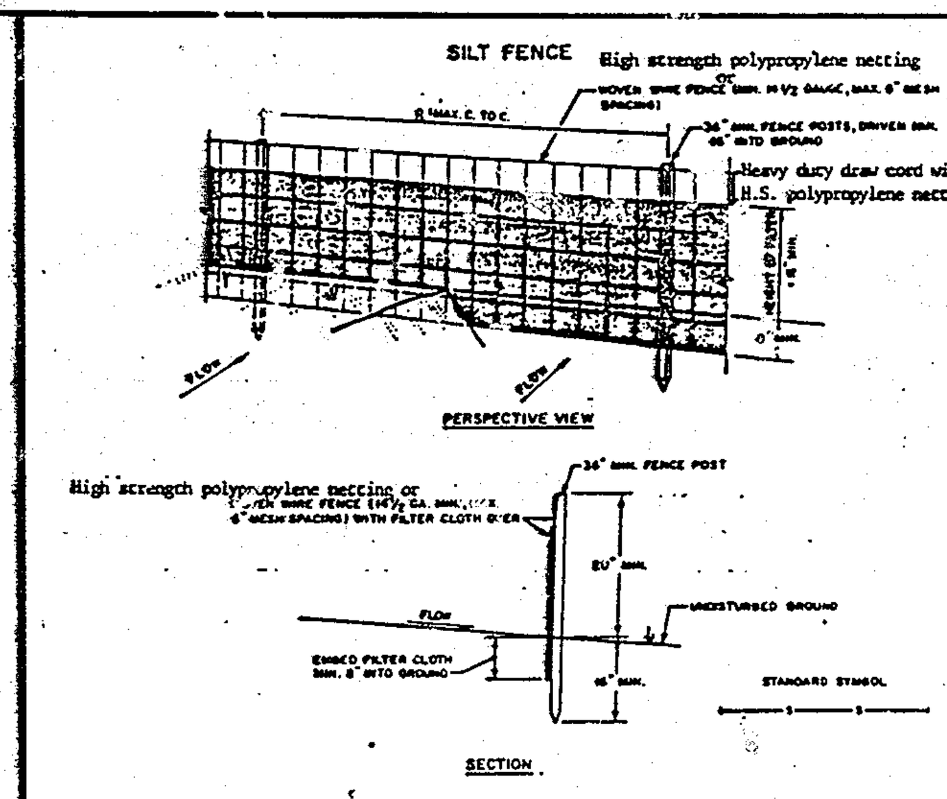
1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

MOUNTABLE BERM DETAIL

NO SCALE



SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. High strength polypropylene netting or woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When two sections of filter cloth adjoin each other they shall be over-lapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

POSTS: Steel either T or U type or 2" hardwood
FENCE: Woven wire, or high strength polypropylene netting
FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or approved equal.
PREFABRICATED UNIT: Geofab, Envirofence, or approved equal.

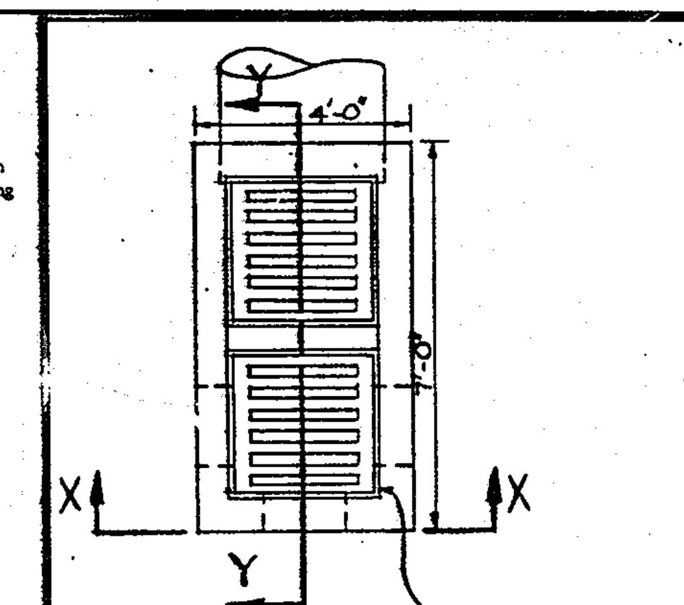
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-1

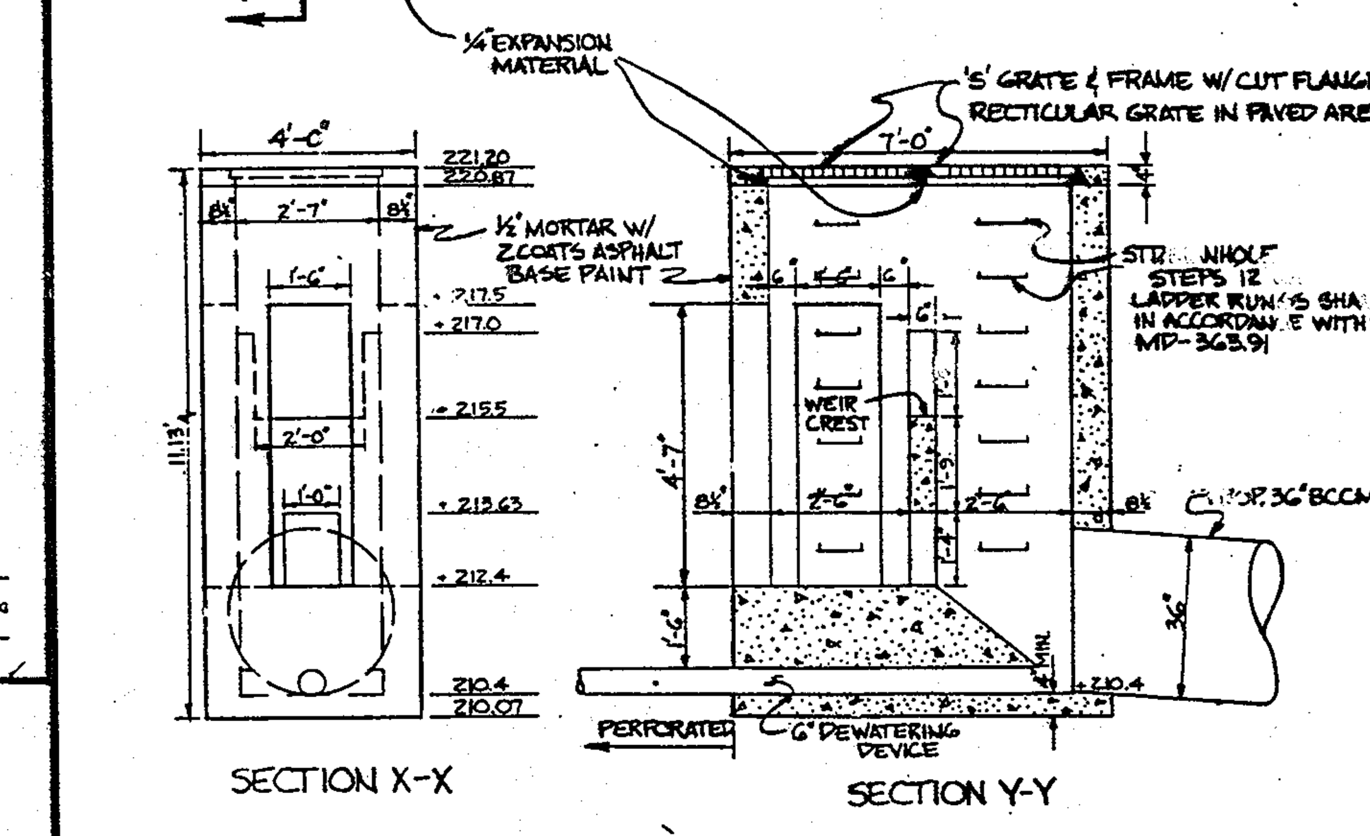
SEQUENCE OF OPERATION

1. OBTAIN GRADING PERMIT
2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, PERMIT INSPECTOR 48 HOURS PRIOR TO BEGINNING ANY WORK.
3. CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES ONLY.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
5. INSTALL THE SEDIMENT BASIN: EXCAVATE SEDIMENT BASIN AREA ACCORDING TO APPROVED SEDIMENT & EROSION CONTROL PLAN.
6. INSTALL RISER, 36" OUTFALL PIPE WITH ANTI-SEEP COLLAR, METAL END SECTION, AND GABIONS.
7. INSTALL EARTH DIKES "A" TO "B", "C" TO "D", AND FILL THE AREA THAT IS CROSS HATCHED ON THE APPROVED SEDIMENT CONTROL PLANS. MAINTAIN POSITIVE DRAINAGE TO SEDIMENT BASIN AT ALL TIMES.
8. INSTALL EARTH DIKE "E" TO "F", AND ALL OTHER DEVICES. BEGIN MAJOR GRADING AND ADJUST DIKES AS WORK PROGRESSES MAINTAINING POSITIVE DRAINAGE TO THE SEDIMENT ~~TRAP~~ BASIN AT ALL TIMES. WHEN ROADS ARE GRADED, PLACE MOUNTABLE BERMS WHERE SHOWN, AS TO DIRECT FLOW TO THE SEDIMENT TRAPPING DEVICES.
9. INSTALL FOUNDATIONS AND OTHER UTILITIES. PROTECT ALL INLETS WITH INLET PROTECTION DETAILED ON THIS SHEET. CONSTRUCT BUILDINGS. INSTALL INLET SEDIMENT TRAP AT I-13
10. FINE GRADE AND INSTALL CURB/GUTTER AND STONE BASE ON THE ROADS AND PARKING AREAS.
11. STABILIZE ALL DISTURBED AREAS OUTSIDE OF BUILDING AREAS WITH PERMANENT SEEDING.
12. WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE INLET PROTECTION IN THE ROADS AND THEN PAVE ROADS. (INLET PROTECTION TO REMAIN ON ALL INLETS NOT IN ROAD WAYS)
13. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, PERFORM FINAL SEDIMENT BASIN DREDGE AND CONVERT BASIN TO STORM WATER MANAGEMENT FACILTIY AS PER THE APPROVED PLANS. REMOVE ALL SUPPORTING DEVICES. MODIFY RELEASE STRUCTURE, STABILIZE POND AS SHOWN ON THE APPROVED STORM WATER MANAGEMENT PLANS.
14. WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES AND STABILIZE ANY DISTURBED AREAS WITH PERMANENT SEEDING. (SEE SPECIFICATIONS THIS SHEET)

GENERAL NOTES:

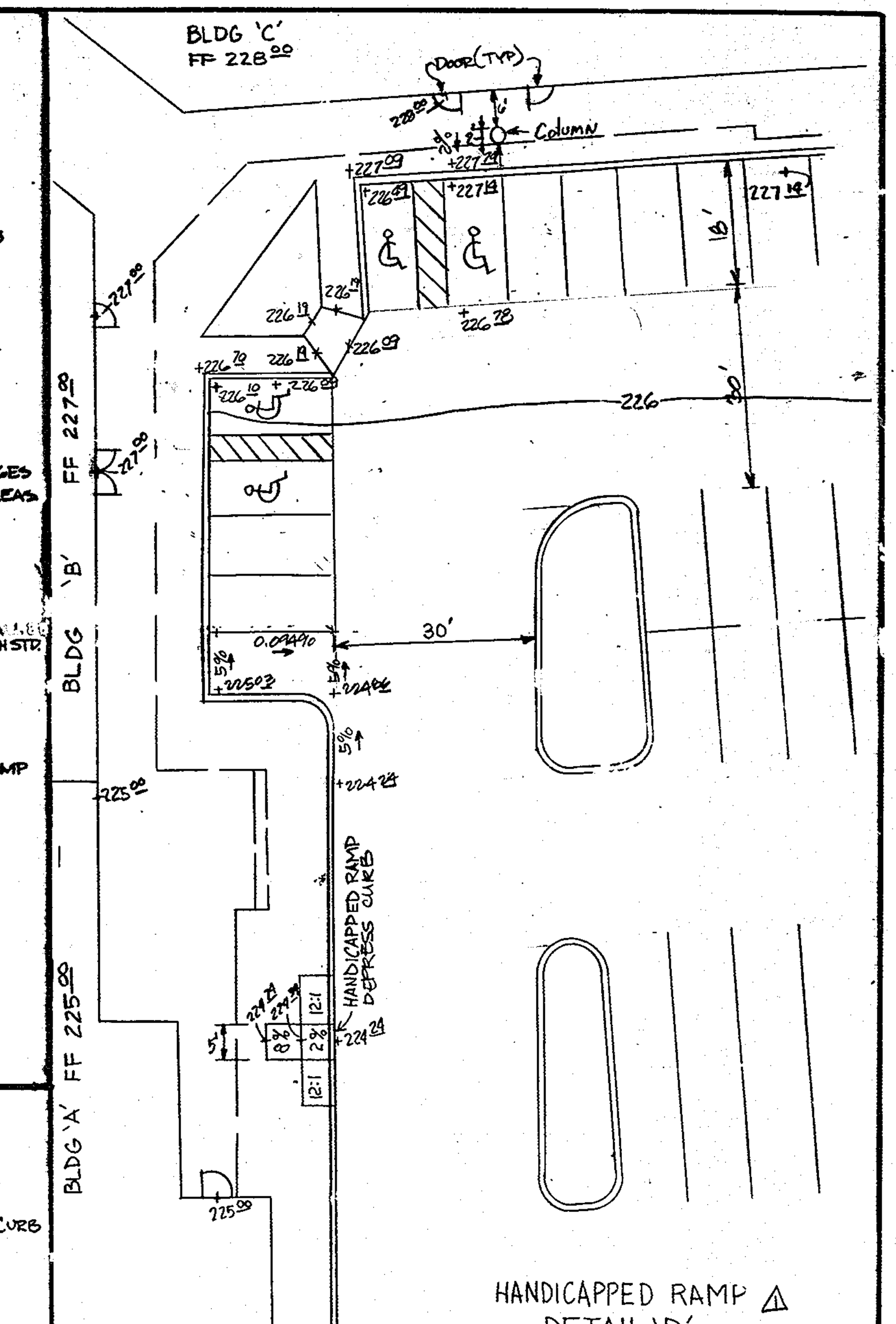
1) RELEASE STRUCTURE TO BE MODIFIED TYPE 'S' INLET DOUBLE GRATE TANDEM (NO SUPPORT BEAM) SEE HOWARD CO. STD. SD 4.23
2) INVERT MAY BE PLAIN CONCRETE OR 4" BRICK LAID ON EDGE. INVERT TO SLOPE DOWN TOWARD OUTLET AS DIRECTED
3) INLET TO BE CONSTRUCTED OF REINFORCED CONCRETE (MIX NO. 3) REINFORCED AS PER SD-4.23
4) TOP 4' OF WALLS MAY BE BRICK MASONRY. ADDITIONAL BRICK MAY BE USED TO BRING THE GRATE TO GRADE IF REQUIRED.
5) PLACE 1/4" EXPANSION MATERIAL OF SAME TYPE APPROVED FOR PAVEMENT BETWEEN THE FRAME AND ABUTTING RIGID PAVEMENT, TO MEET INSIDE EDGE OF FRAME AS SHOWN.





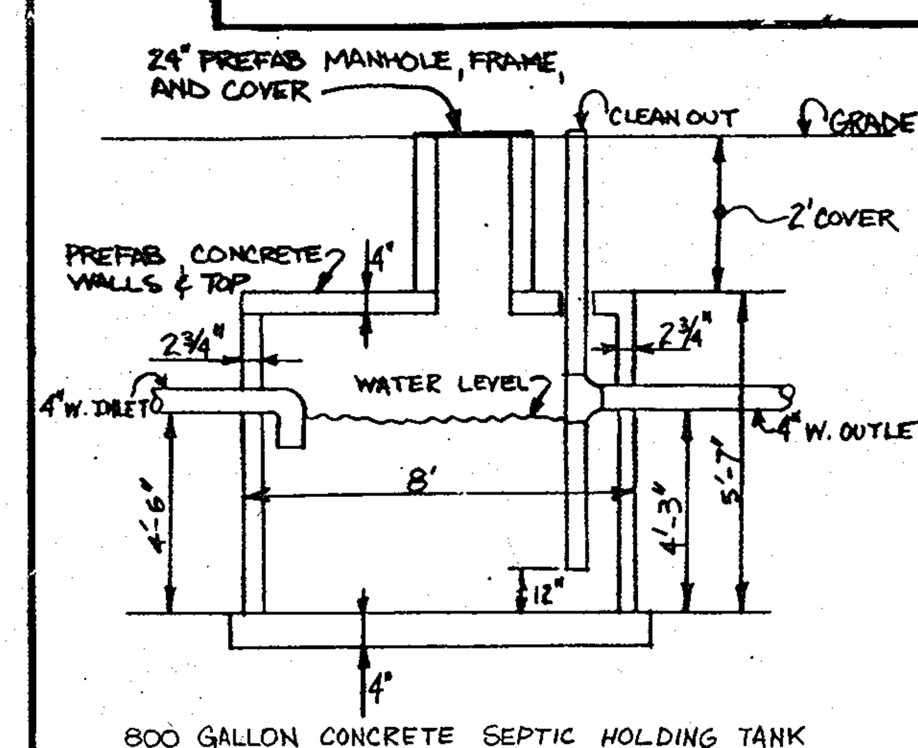
RELEASE STRUCTURE DETAIL

NO SCALE



HANDICAPPED RAMP DETAIL 'D'

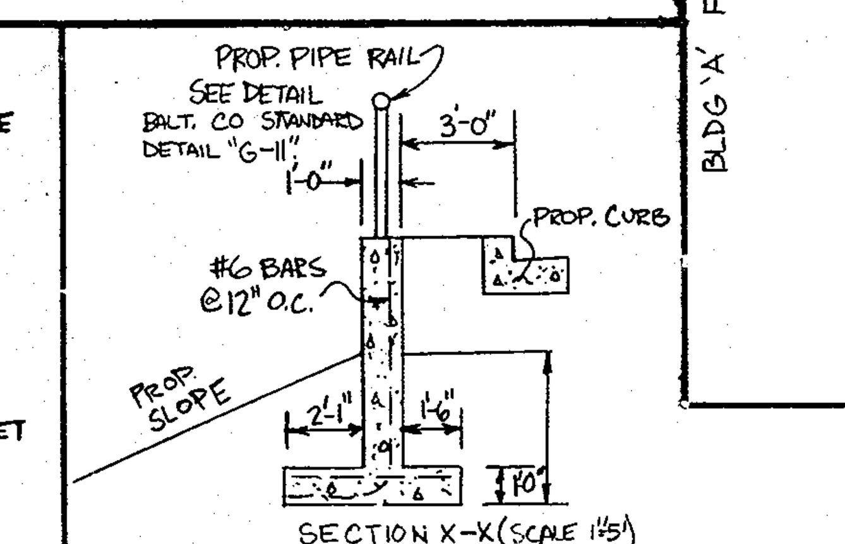
SCALE 1"=20'

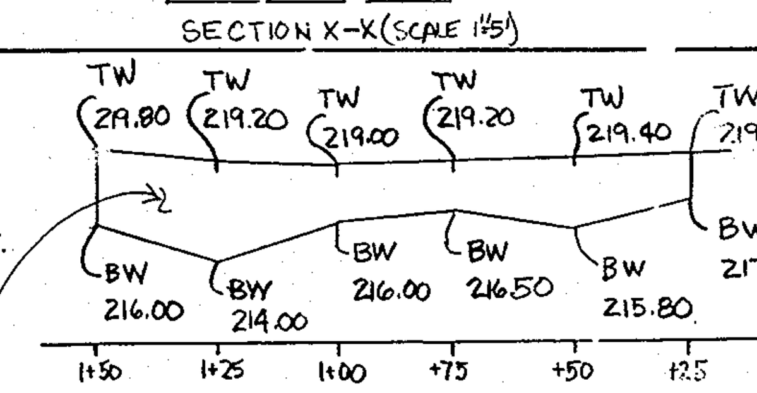


800 GALLON CONCRETE SEPTIC HOLDING TANK AS MANUFACTURED BY EVCO (TO BE USED AS GREASE INTERCEPTOR.

4'x3'x5'-1" GREASE INTERCEPTOR-DETAIL

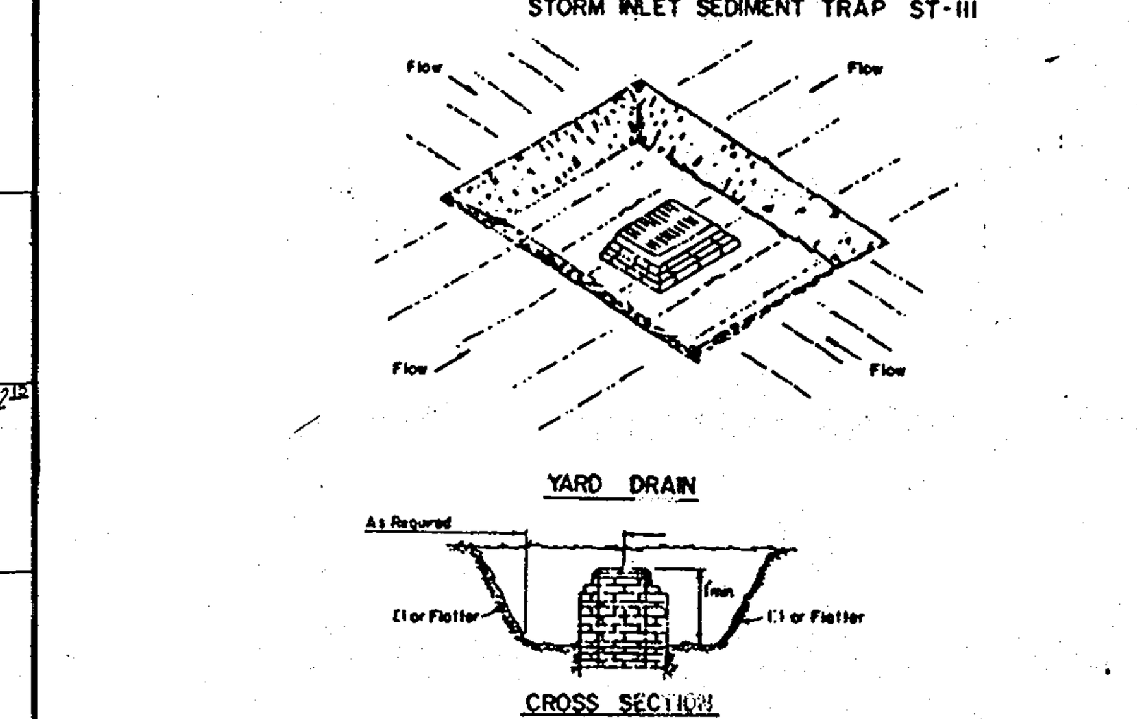
NO SCALE





PROFILE
RETAINING WALL 'A'
SCALE: HOR.: 1"=40'
VERT.: 1"=5'

STORM INLET SEDIMENT TRAP ST-III

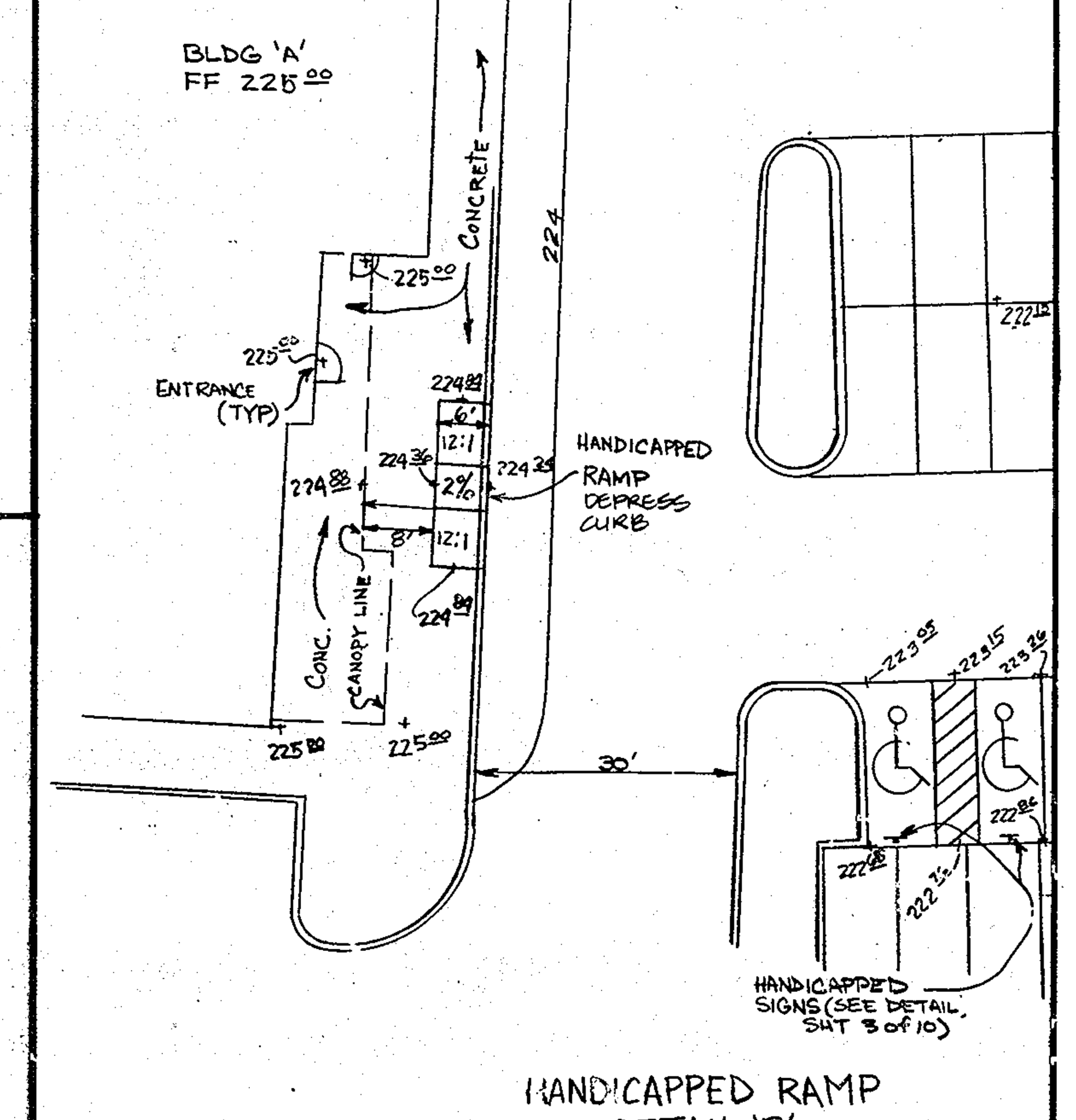


CONSTRUCTION SPECIFICATION FOR ST-III

1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STORM INLET SEDIMENT TRAP	STANDARD DRAWING ST-III



HANDICAPPED RAMP DETAIL 'B'

SCALE 1"=20

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [signature] DATE: 9-20-89
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE [signature] DATE: 9/20/89
UNITED STATED SOIL CONSERVATION SERVICE

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

[signature] 9.27.89
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

[signature] 10.10.89
DIRECTOR

[signature] 9/28/89
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.

[signature] 9/28/89
DIRECTOR

[signature] 9.25.89
CHIEF BUREAU OF ENGINEERING

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: [signature] TAPOBRATA CHAKRABARTI
REG. NO. 15926 DATE: 6/15/89

OWNERS / DEVELOPERS
PARCEL A-1 ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1 L. & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-6300

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.
PARCEL A-1 DEVELOPER [signature] DATE
PARCEL B-1 DEVELOPER [signature] DATE

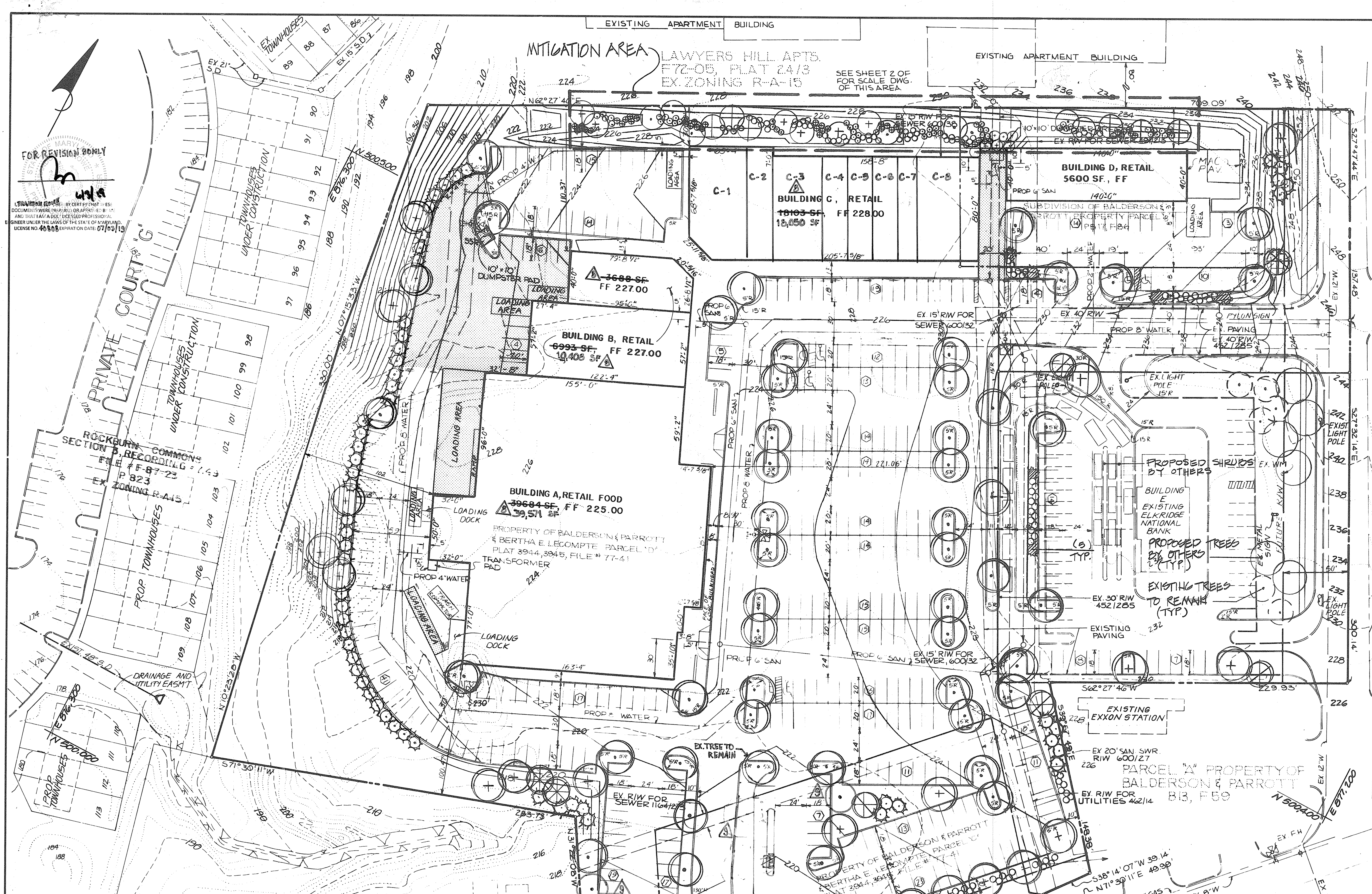
DESIGNED BY: CIB
DRAWN BY: RGB
CHECKED BY: DJP

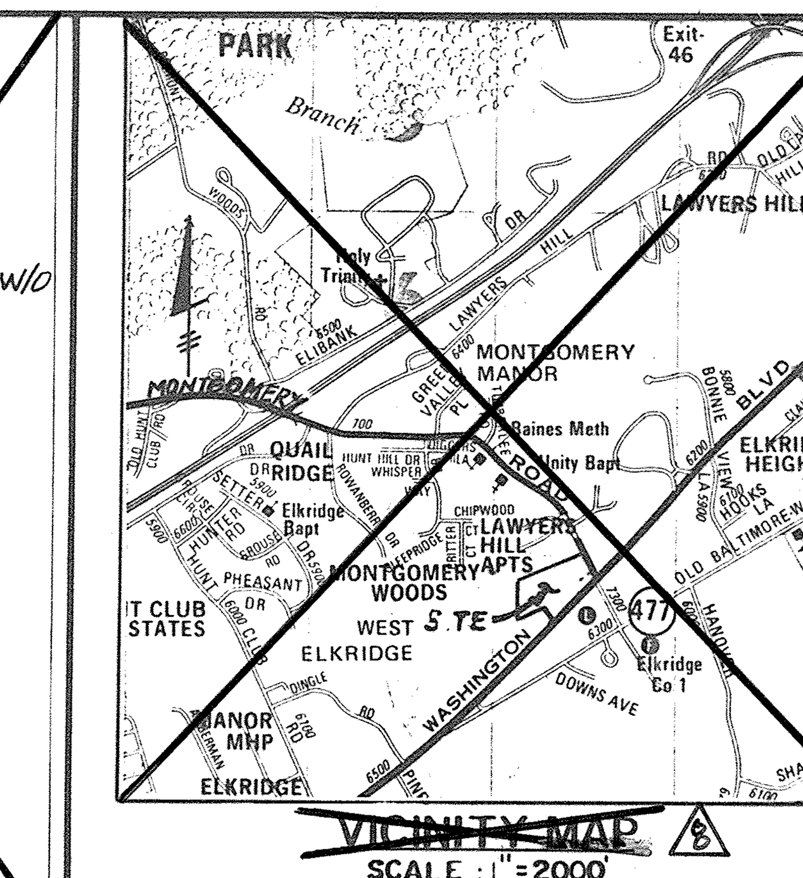
REVISIONS
△ REV. HANDICAPPED RAMP, DETAIL 'D' 7/9/90

EROSION AND SEDIMENT CONTROL DETAILS -FOR- ELKRIDGE CORNERS

TAX MAP 38
HOWARD CO., MD.
SCALE
FILE NO. S-89-08
WP-89-52
WP 89-169
PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4/18/89
SHEET 8 OF 10

SDP 89-205


EXISTING APARTMENT BUILDING
MITIGATION AREA
LAWYERS HILL APTS.
F72-05, PLAT 2413
EX. ZONING R-A-15
SEE SHEET 2 OF FOR SCALE DWG. OF THIS AREA
BUILDING D, RETAIL
5600 SF., FF
BUILDING C, RETAIL
18103 SF.
18,250 SF
FF 228.00
BUILDING B, RETAIL
6993 SF.
10,405 SF
FF 227.00
BUILDING A, RETAIL FOOD
39684 SF.
39,571 SF
FF 225.00
PROPERTY OF BALDERSON, PARROTT & BERTHA E. LECOMPTE PARCEL 'B'
PLAT 3944, 3945, FILE # 77-41
10'x10' DUMPSTER PAD
LOADING AREA
LOADING DOCK
TRANSFORMER
PROP 4" WATER
PRIVATE COURT 'G'
ROCKBURN COMMONS SECTION 3, RECORDING
TOWNHOUSES UNDER CONSTRUCTION
PROP TOWNHOUSES
PROPOSED SHRUBS BY OTHERS
BUILDING E EXISTING ELKRIDGE NATIONAL BANK
PROPOSED TREES BY OTHERS (TYP)
EXISTING TREES TO REMAIN (TYP)
EX. 30' R/W 452/285
EXISTING PAVING
EX. 15' R/W FOR SEWER 600/32
EXISTING EXXON STATION
EX. TREE TO REMAIN
PARCEL 'A' PROPERTY OF BALDERSON & PARROTT B13, F59
EX. 20' SAN. SWR. R/W 600/27
EX. R/W FOR UTILITIES 462/14
EX. R/W FOR SEWER 1104/27
PROPERTY OF BALDERSON & PARROTT & BERTHA E. LECOMPTE PARCEL 'C'
EX. MOTEL BLDGS
HILLSIDE MOTEL 658/196 P101
EX ZONING B2
PROP SIDEWALK
FUTURE R/W
U.S. ROUTE 1
DRAINAGE AND UTILITY EASM'T
NOTE: SEE SHEET 2 OF 10 FOR DETAILS OF WIDENING OF US RT. 1



~~VICINITY MAP~~ ⚠8
SCALE : 1" = 2000'

~~SITE DATA~~ ⚠8

TOTAL AREA OF SITE:
AREA OF HIGHWAY WIDENING:
NET AREA OF SITE:
EXISTING USE:
PROPOSED USE:
TOTAL FLOOR AREA
FLOOR AREA RATIO (BLDG. COVERAGE W/O PAVING):
BUILDING COVERAGE WITH PAVING:

AREA OF PARKING LOT:
AREA OF LANDSCAPED ISLANDS WITHIN PARKING LOT:
PERCENTAGE OF LANDSCAPING WITHIN PARKING LOT:
PERCENTAGE OF OPEN SPACE:
AREA TO BE DISTURBED:
AREA TO BE VEGETATIVELY STABILIZED:
EXISTING ZONING: B-2
PROPERTY REFERENCE:

~~GENERAL NOTES~~ ⚠8

1. MAXIMUM BUILDING HEIGHT
2. ALL AREAS NOT PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
3. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY AND/OR ADJACENT PROPERTIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL MAINTAIN AT LEAST A 2' LEVEL BENCH BEHIND ALL CURB AND GUTTER IN FILL AREAS.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION.
6. ALL SLOPES SHALL BE 2:1 OR FLATTER
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, OR AS SHOWN ON THESE PLANS.
8. THE CONTRACTOR SHALL NOTIFY THE C&P TELEPHONE CO. AND THE GAS AND ELECTRIC COMPANY FIVE DAYS PRIOR TO STARTING WORK SHOWN ON THESE PLANS BY CALLING "MISS UTILITY" CALL COLLECT 1-559-0100
9. FOR DETAILS OF RAMPS AND SIGNS FOR THE HANDICAPPED SEE THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED AND DETAILS AS SHOWN HEREON.
10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3.5' COVER OVER ALL PROPOSED WATER LINES.
11. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-2630
12. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVING, CURB AND GUTTER, ETC. THAT MAY INTERFERE WITH PROPOSED CONSTRUCTION.
13. ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
14. ALL WATER MAIN TEES, BENDS, CAPS, ETC. SHALL BE BUTTRESSED IN ACCORDANCE WITH HOWARD COUNTY DESIGN REGULATIONS.
15. THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWER SYSTEM IF THIS WASTE 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 PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE 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 TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWER SYSTEM PRIOR TO THE INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES.
THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS

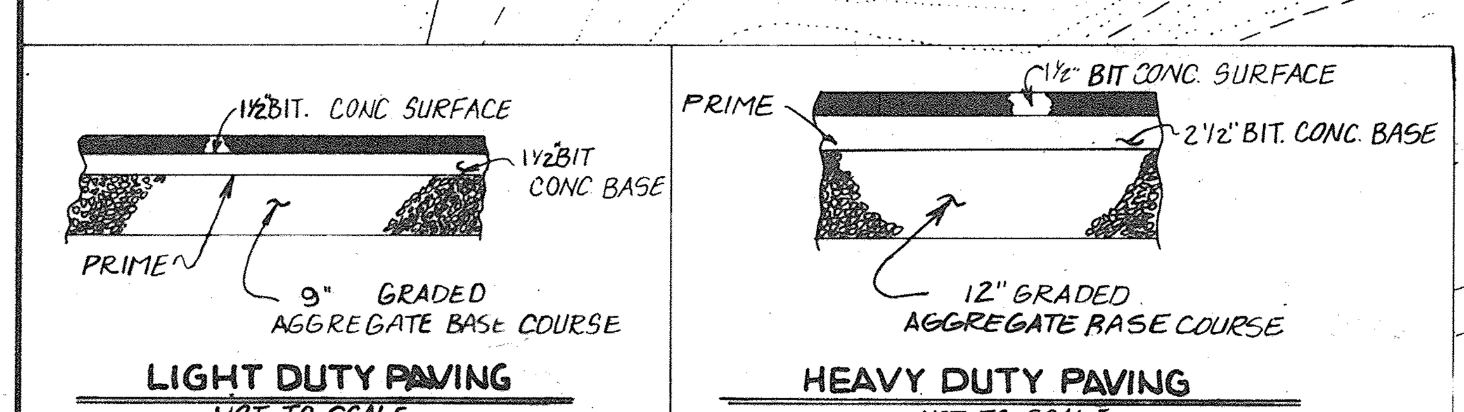
~~PARKING TABULATION~~ ⚠8

PARKING REQUIRED:	
PARCEL 'A':	
EXIST. BANK AREA AVAILABLE TO PUBLIC:	2315 S.F. @ 1 SPC/200 S.F. = 12 SPC.
REMAINDER OF EXIST. BANK AREA:	22 EMPLOYEES @ 0.7 SPC/EMP. = 16 SPC.
PARCEL B:	
RETAIL FOOD: (AREA AVAILABLE TO PUBLIC)	29929 S.F. @ 1 SPC./150 S.F = 200 SPC.
RETAIL FOOD: (AREA NOT AVAILABLE TO PUBLIC)	9755 S.F. @ 1 SPC./500 S.F = 20 SPC.
RETAIL:	34984 S.F. @ 1 SPC./200 S.F. = 175 SPC.
TOTAL PARKING REQUIRED	= 423 SPC.
PARKING PROVIDED:	SPC. (INCL. 8 H.C. SPC.)

LEGEND

TRACT OUTLINE	
R/W LINE	
EASEMENTS	
MINIMUM BUILDING RESTRICTION LINE	
EXISTING GROUND	270
PROPOSED GRADE	272
NUMBER PARKING SPACES	(5)
HANDICAPPED PARKING	♿
LIGHT DUTY PAVING	
HEAVY DUTY PAVING	
CONCRETE PAVING	
M.S.H.A. TYPICAL PAVING	
HANDICAPPED DETAIL NO.	⚠1

APPROVED
DIVISION of
COMMUNITY PLANNING
& LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89
J.B.



FOR REVISION 8 ONLY
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 38291 EXPIRATION DATE: 07/03/19

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

[signature] 9/25/89
DIRECTOR

[signature] 9-25-89
CHIEF BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

[signature] 10.16.89
DIRECTOR

[signature] 9/28/89
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [signature] 9-20-89
HOWARD SOIL CONSERVATION DISTRICT DATE

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

[signature] 9-22-89
COUNTY HEALTH OFFICER DATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE [signature] 9/20/89
UNITED STATED SOIL CONSERVATION SERVICE DATE

ADDRESS CHART

BUILDING #	STREET ADDRESS

SUBDIVISION NAME				SECT./AREA		LOT/PARCEL #
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST.		CENSUS TRACT
WATER CODE				SEWER CODE		

DATE	REVISION
1-31-2019	⚠8 BLDG. 'C' DEMISING WALL AND PARKING TABULATION UPDATE
5/22/19	⚠9 ADD REMOTE ATM AND ADJUSTED TREE LOCATIONS

STATE OF MARYLAND PROFESSIONAL ENGINEER 38291 [signature]

OWNERS / DEVELOPERS

PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200

PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-8300

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.
PARCEL A-1 DEVELOPER [signature] DATE 4/4/89 PARCEL B-1 DEVELOPER [signature] DATE

PLANTING PLAN
ELKRIDGE CORNERS

TAX MAP 38
HOWARD CO., MD.
SCALE: 1" = 40'

FILE No. S-89-08
WP-89-52
WP 89-169

PARCELS 826, 885, 799
ELECTION DISTRICT 1
DATE: 4/18/89
SHEET 9 OF 10

SDP 89-205

PLANT LIST

KEY	QUANTITY	BOTANICAL NAME / COMMON NAME	SIZE	COND.	REMARKS
	54	PLATANUS ACERIFOLIA 'BLOODGOOD' BLOODGOOD LONDON PLANE	2 1/2 - 3"CAL	B & B	
	23	ZELKOVA SERRATA VILLAGE GREEN VILLAGE GREEN ZELKOVA	2 1/2 - 3"CAL	B & B	
	11	PRUNUS YEDOENSIS YOSHINO CHERRY	1 3/4 - 2"CAL	B & B	
	62	PINUS STROBUS WHITE PINE	6-7' HT	B & B	SPACE 8-10' O.C.
	74	EUONYMUS ALATUS COMPACTA WINGED EUONYMUS - DWARF	2 1/2 - 3' HT	B & B	SPACE 42" O.C.
	3	PINUS MUGO MUGHUS MUGO PINE	2 - 2 1/2' HT	B & B	SPACE 36"-42" O.C.
	39	JUNIPERUS SABINA TAMARISCIFOLIA TAMS JUNIPER	15 - 18"	CAN	SPACE 36" O.C.
		ANNUAL FLOWERS		POTS	SPACE 12" O.C.

MITIGATION AREA PLANTING

KEY	QTY	BOTANICAL NAME / COMMON NAME	SIZE	CONDITION	REMARKS
	10	SALIX NIGRA BLACK WILLOW	1 - 1 1/2" CAL	B & B	
	11	ACER RUBRUM RED MAPLE	1 - 1 1/2" CAL.	B & B	
	6	FRAXINUS PENNSYLVANICA GREEN ASH	1 - 1 1/2" CAL.	B & B	
	48	ALNUS SERRULATA SMOOTH ALDER	18-24" HT.	CAN/BR	SPACE 4' O.C.
	42	LINDERA BENZOIN SPICEBUSH	18-24" HT	CAN/BR	SPACE 4' O.C.
	52	VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY	18-24" HT	CAN/BR	SPACE 4' O.C.

MITIGATION NOTES:

1. THE LANDSCAPE CONTRACTOR HAS THE OPTION OF PROVIDING NURSERY STOCK OR REMOVING THE PROPOSED PLANTS FROM THE EXISTING WETLANDS AND HOLDING FOR PLANTING AFTER THE MITIGATION AREA IS CONSTRUCTED
2. THE GRADING AND EXCAVATION CONTRACTOR IS TO REMOVE 8" OF EXISTING WETLAND TOPSOIL TO BE STOCK PILED AND RESPREAD OVER THE PROPOSED MITIGATION AREA.
3. CALL ED MURDY @ McCARTY & ASSOC (1-301-627-7505) 48 HOURS BEFORE PLANTING

APPROVED
DIVISION of COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-15-89

SPECIFICATION FOR PLANTING

Plant Identification: All plants shall be properly marked for identification and checking.

List of Plant Materials: The Contractor will verify plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work as shown on the drawings. Substitutions shall not be made without the written approval of the Landscape Architect. This contract will be based on the bidder having verified, prior to bidding, the availability of the required plant materials as specified on the Plant List.

Plant Quality: All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and shall be vigorous, health and of good color. All plants shall be sound, free of plant disease or insect eggs and shall have a healthy normal root system. Plants shall be nursery grown. Plants shall not be pruned prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. All plants including container grown shall conform to the branching, caliber, ball size, height, specifications of the American Standard for Nursery Stock (ANSI Z60.1-1973), and shall have a well-shaped, heavy branch structure for the species. Evergreen trees are to have an internode no greater than 24" and shall be uniformly well-shaped. All plant sizes shall average at least the middle of the range given in the plant list.

Plant Spacing: Plant spacing is to scale on plan or as shown on the Plant List.

Soil Mix: Soil mix will be 2/3 existing soil, 1/3 leafmold or equal organic material, thoroughly mixed and homogenized.

Ball Size: The ball size shall conform to the American Association of Nurserymen's publication entitled American Standard for Nursery Stock, ANSI Z60.1-1973.

Excavation: Holes for all plants shall be 18" larger in diameter than size of ball or container and shall have vertical sides. Hedges shall be planted in a trench 12" wider than ball diameter. Beds for mass planting shall be entirely rototilled to a depth of 8" and shall be 18" beyond the average outside edge of plant balls. Organic material (i.e. Leafmold) will be incorporated into plant beds by tilling again. Proportions of soil to organic material will be 2 parts to 1 part.

Planting: Backfilling shall be done with soil mix, reasonably free of stones, subsoil, clay, lumps, stumps, roots, weeds, bermuda grass, litter, toxic substances, or any other mateiral which may be harmful to plant growth or hinder grading, planting, or maintenance operations. Should any unforseen or unsuitable planting conditions arise such as faulty soil drainage or chemical residues, they should be called to the attention of the Landscape Architect and Owner for adjustments before planting. The plant shall be set plumb and straight and shall be staked at the time of planting. Backfill shall be well worked about the roots and settled by watering. Plants will be planted higher than surrounding grade. Shrubs will be 1" higher and trees will be 3" higher. Remove rope from around tree trunks and lay back burlap from top of all B&B material. Nylon or vinyl rope and/or burlap will be completely removed from all plant material prior to planting.

Transplanting Trees By Tree Machines: Trees shall be moved by machines that provide a minimum of 9" per 1" of tree caliber. Holes are to be dug by the same size machine as the one transporting the plant. The plant material shall be transplanted in approximately the same growing condition as it is presently growing, in terms of soil type and moisture content. Fertilize and guy as described in these plans and specifications.

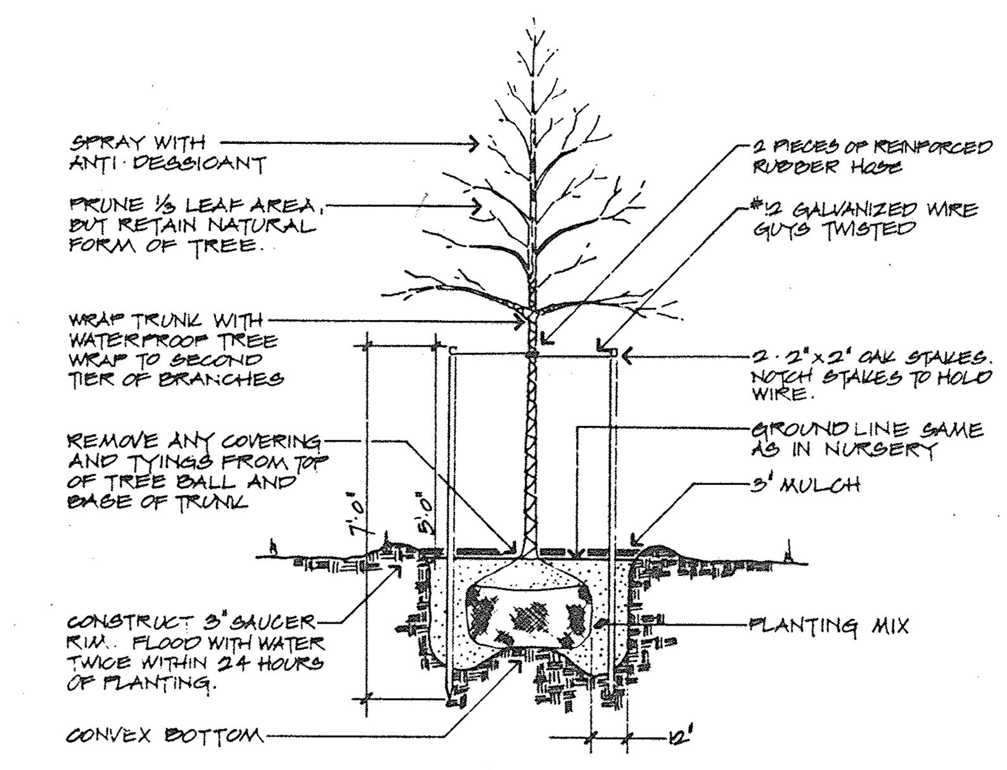
Cultivation: All trenches and shrub beds shall be cultivated, edged and mulched to a depth of 3" with shredded hardwood bark. The area around isolated plants shall be mulched to at least 6" greater diameter than that of the hole. Plant beds adjacent to buildings shall be mulched to the building wall.

Maintenance: The Contractor shall be responsible during the contract and up to the time of acceptance, for keeping the planting and work incidintal therto in good condition, by replanting, plant replacement, watering, weeding, cultivating, pruning and spraying, restaking and cleaning up and by performing all other necessary operations of care for promotion of good plant growth so that all work is in satisfactory condition at time of acceptance, at no additional cost to the Owner.

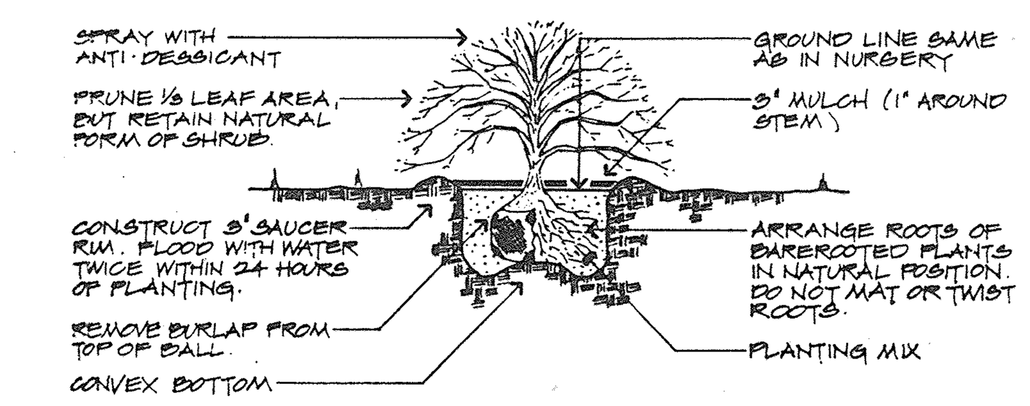
Fertilizer: Fertilizer shall be a slow release type contained in polyethelene perforated bags with micropore holes for controlled feeding such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 355, Suffern, New York 10901 or approved equal. The bags shall contain 1 ounce of soluable fertilizer analysis 16-18-16 per unit to last three years and shall be applied during planting as recommended by the manufacturer. If fertilizer packets are not used the Contractor shall apply grandular fertilizer to the soil mix with 10-6-4 analysis, 50% organic, at the following rates: Tree Pits, 2-3 lbs. per caliber inch; Shrub Beds, 3-5 lbs. per 100 sq. ft.; Ground Cover, 2-3 lbs. per 100 sq. ft.

Ground Cover: All areas of ground cover shall be rototilled to a depth of 6". Apply 2" of organic material and rototill until thoroughly mixed. Apply fertilizer as stated above.

Guarantee and Replacement: All material shall be unconditionally guaranteed for one year.



PLANTING DETAIL FOR TREES - 1 1/4"- 4" CALIPER
NOT TO SCALE



PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS
NOT TO SCALE

NOTES:

1. Contractor shall notify Miss Utility a minimum of 72 hours prior to digging. Telephone: 1-800-257-7777.
2. The location of all plant material is to be approved in the field by the Landscape Architect.
3. The Landscape Architect is to be notified 48 hours before planting begins.
4. This plan is to be used for planting only.

GENERAL NOTES △

1. UNLESS OTHERWISE NOTED, ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE LATEST HOWARD COUNTY VOLUME IV DESIGN MANUAL AND STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION UPDATED JULY 29 2011.
2. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
3. IN THE CASE OF A DISCREPANCY BETWEEN SCALED AND FIGURED DIMENSIONS SHOWN ON THE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
4. FAILURE TO MENTION SPECIFIC WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PERFORM SUCH WORK.
5. ALL WORK SHALL OCCUR UNDER THE SUPERVISION OF THE ENGINEER.
6. THE WORK PROPOSED HEREON SHALL BE PERFORMED ONLY BY STORMWATER MAINTENANCE, LLC UNLESS OTHERWISE APPROVED BY THE ENGINEER.

27" ϕ SLIPLINING INSTALLATION △7

1. INSTALL THE 27" SLIPLINING:
   A. INSPECT THE BARREL TO ENSURE THE LINER CAN BE INSERTED WITHOUT OBSTRUCTION.
   B. ATTACH WOOD SKIDS TO A SECTION OF THE LINER OR TO THE EXISTING BARREL AND INSERT ONE END OF THE BARREL LINER INTO EXISTING BARREL LEAVING ABOUT FIVE (5) FEET EXPOSED.
   C. POSITION THE NEXT SECTION OF LINER PIPE (OPPOSING END) TO THE EXPOSED END OF THE FIRST SECTION.
   D. SCREW THE PULLING HEAD TO THE FIRST SECTION OF THE LINER. ATTACH THE CABLE TO THE PULLING HEAD AND PULL THE FIRST SECTION OF THE LINER INTO THE CULVERT. THREAD THE FOLLOWING LINER SECTIONS USING A CHAIN OR STRAP WRENCH WITH A FOUR FOOT BAR TO TURN THE PIPE. THE PREVIOUSLY INSERTED LINER MAY HAVE TO BE BLOCKED OR WEDGED IN THE CULVERT TO PREVENT IT FROM TWISTING.
   E. PUSH JOINED LINER PIPES INTO EXISTING BARREL AND REPEAT UNTIL COMPLETELY LINED.
2. SEAL BARREL ENDS AND GROUT THE ANNULAR SPACE BETWEEN THE BARREL LINER AND EXISTING BARREL.
   A. PLACE BULKHEADS IN ANNULAR SPACE BETWEEN EXISTING PIPE AND SLIPLINING PIPE AT BOTH THE UPSTREAM AND DOWNSTREAM ENDS OF THE BARREL. INSTALL AT LEAST ONE VENT PIPE THROUGH THE TOP OF EACH BULKHEAD.
   B. PUMP GROUT INTO THE ANNULAR SPACE USING LOW GROUT PRESSURE (<5 PSI). GROUT TO BE INSTALLED IN A STAGED PROCESS STARTING WITH THE LOWEST ZONE FIRST FILL APPROXIMATELY 1/4 TO 1/3 OF THE TOTAL
   C. AFTER LOWER ZONE IS COMPLETE, PUMP REMAINING PORTION OF ANNULAR SPACE WITH GROUT UNTIL FULL.
3. GROUT SHALL BE FLOWABLE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. ANTICIPATED VOLUME AND STOP.

8" ϕ SLIPLINING INSTALLATION △7

1. INSTALL THE 8" ϕ PERFORATED SCHEDULE 40 PVC PIPE.
   A. INSPECT THE THREE 12" ϕ BARRELS TO ENSURE THE HIGHWAY UNDERDRAIN PIPE CAN BE INSERTED WITHOUT OBSTRUCTION.
   B. CUT EACH 10 FOOT LENGTH PIPE SECTION INTO 3 EQUAL LENGTHS (3'-4") WITH A FINE TOOTH SAW OR POWER SAW. SQUARE WITH ITS AXIS TO ALLOW THE PIPE INSERTATION INTO THE 5' ϕ MANHOLE.*
   C. INSTALL A PVC END CAP ON THE FIRST 3'-4" NON BELL END SECTION AND COUPLE ACCORDING TO ASTM D2855.
   D. INSERT THE PVC END CAPPED PIPE INTO THE EXISTING 12" ϕ PERFORATED PIPE WITH THE PVC END CAPPED END FACING DOWNSTREAM.
   E. INSERT THE NEXT 3'-4" NON BELL END SECTION INTO THE MANHOLE AND COUPLE THE TWO SECTIONS OF PIPE WITH SOLVENT CEMENT ACCORDING TO ASTM D2855 AND THE COUPLING DETAIL ON SHEET 6.
   F. LET THE JOINTS CURE PER THE SOLVENT CEMENT'S RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER.
   G. SLIDE THE COUPLED PIPES INTO THE 12" ϕ CMPs AS REQUIRED TO FIT THE NEXT SECTION OF 3'-4" PIPE.
   H. INSERT THE 3'-4" BELL END SECTION INTO THE MANHOLE AND COUPLE THE NON BELL END SECTION TO THE COUPLED PIPES WITH SOLVENT CEMENT ACCORDING TO ASTM D2855 AND THE COUPLING DETAIL ON SHEET 6.
   I. LET THE JOINTS CURE PER THE SOLVENT CEMENT'S RECOMMENDATIONS AND AS DIRECTED BY THE ENGINEER.
   J. SLIDE THE COUPLED PIPES INTO THE 12" ϕ AS REQUIRED TO FIT THE NEXT SECTION OF 3'-4" PIPE.*
   K. REPEAT STEPS E THROUGH J FOR THE REQUIRED LENGTH. TWO NON BELL END SECTIONS OF PIPE SHOULD BE ALTERNATED WITH ONE BELL END SECTION TO ASSIST IN THE SLIDING OF THE COUPLED HIGHWAY UNDERDRAIN PIPE INTO THE EXISTING 12" ϕ PERFORATED CMP. THE LAST SECTION OF PIPE SHOULD BE CUT TO THE REQUIRED LENGTH TO BE FLUSH WITH THE MANHOLE SIDE WALLS.
2. BULKHEAD AND GROUT THE UPSTREAM BARREL END ANNULAR SPACE BETWEEN THE 8" ϕ PIPE AND EXISTING BARREL FOR A MINIMUM THICKNESS OF 6". THE UPSTREAM BARREL BULKHEAD SHALL BE FLUSH WITH THE MANHOLE SIDEWALLS.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

* CONSTRUCTION SEQUENCE SHOWN HERE IS FOR A 10' BELL END PIPE CUT INTO 3'-4" SECTIONS. LONGER SECTION OF PIPE (I.E. 20' PIPES CUT INTO 4'-0" SECTION) MAY BE USED IF THE ENGINEER DETERMINES THAT IT CAN BE SAFELY INSERTED AND CONSTRUCTED INSIDE THE MANHOLE.

FOR REVISION 9 ONLY
6/3/19
BRANDON ROWE
DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 40808 EXPIRATION DATE: 07/03/19

PARKING TABULATION △8

TENANT	USE	BLDG.	STREET ADDRESS	GROSS S.F.	PARKING RATE	PARKING SPACES REQ.
GREEN VALLEY MARKETPLACE	RETAIL GENERAL	A	7280 MONTGOMERY RD	39,571	5/1,000 SF	198
RITE AID	RETAIL GENERAL	B	7270 MONTGOMERY RD	10,408	5/1,000 SF	52
DOLLAR SHOP	RETAIL GENERAL	C-1	7260 MONTGOMERY RD	3,500	5/1,000 SF	18
ATI PHYSICAL THERAPY	PHYSICAL THERAPY	C-2	7260 MONTGOMERY RD	1,750	5/1,000 SF	9
RESTAURANT	RESTAURANT SITDOWN	C-3	7260 MONTGOMERY RD	3,200	14/1,000 SF	45
CITI NAILS	PERSONAL SERVICE	C-4	7260 MONTGOMERY RD	1,600	5/1,000 SF	8
CHOP STIXX	RESTAURANT STANDARD	C-5	7260 MONTGOMERY RD	1,600	14/1,000 SF	23
JOY CLEANERS	DRY CLEANER	C-6	7260 MONTGOMERY RD.	1,600	5/1,000 SF	8
SPORTS CLIPS	PERSONAL SERVICE	C-7	7260 MONTGOMERY RD.	1,200	5/1,000 SF	6
PIZZA HUT	RESTAURANT STANDARD	C-8	7260 MONTGOMERY RD	3,200	14/1,000 SF	45
CINDY'S SPIRITS	RETAIL GENERAL	D	7250 MONTGOMERY RD.	5,600	5/1,000 SF	28
TOTAL PARKING REQUIRED (PER CODE SECTION 133.0 "OFF-STREET PARKING & CODE FACILITIES")						440
TOTAL PARKING PER PARKING DEMAND STUDY (NOV. 27, 2018)						244
TOTAL EXISTING PARKING (PER THE TRAFFIC GROUP REPORT)						385*

*PER 03/21/19 LETTER PREPARED BY THE TRAFFIC GROUP REGARDING THE EVALUATION OF THE REDLINE REVISION TO THE DEVELOPMENT PLAN; 385 PARKING SPACES IS SUFFICIENT.

△9

TENANT	USE	BLDG	STREET ADDRESS	GROSS S.F.	PARKING RATE	PARKING SPACES REQ.
BANK OF AMERICA	REMOTE ATM	F	7260 MONTGOMERY ROAD	10 S.F.	3.3 SPACES/ 1,000 SF	N/A

STATE OF MARYLAND — EUGENE L. FLEAGLE — 44289 — PROFESSIONAL ENGINEER
For Rev △ Only
6/17/2014

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR 9/25/89
CHIEF BUREAU OF ENGINEERING 9-25-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.
DIRECTOR 10.16.89
CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: HOWARD SOIL CONSERVATION DISTRICT 9-20-89 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER 9-27-89 DATE

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE UNITED STATED SOIL CONSERVATION SERVICE 9/20/89 DATE

ADDRESS CHART

BUILDING #	STREET ADDRESS

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #

PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TRACT

WATER CODE | SEWER CODE

DATE	REVISION
1-31-2019	△8 BLDG. 'C' DEMISING WALL AT C-3 AND UPDATE PARKING TABULATION.

STATE OF MARYLAND — MICHAEL GRAY — PROFESSIONAL ENGINEER

OWNERS / DEVELOPERS
PARCEL A-1: ELKRIDGE NATIONAL BANK
7290 MONTGOMERY ROAD
ELKRIDGE, MD. 21227
301-796-1200
PARCEL B-1: L & M DEVELOPMENT CO. LIMITED PARTNERSHIP
ONE NORTH CHARLES STREET SUITE 1100
BALTIMORE MD. 21201
301-727-8300

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.
PARCEL A-1 DEVELOPER ____ DATE ____ PARCEL B-1 DEVELOPER ____ DATE ____

STATE OF MARYLAND — REGISTERED LANDSCAPE ARCHITECT — No. 353

PLANTING PLAN
ELKRIDGE CORNERS

TAX MAP 38 | FILE No S-89-08 | PARCELS 826, 885, 799
HOWARD CO., MD. | WP-89-52 | ELECTION DISTRICT 1
SCALE: 1" = 40' | WP 89-169 | DATE: 4/18/89
SHEET 10 OF 10

△ 5/20/14 SWM REV. S-1 + M1 (REV. 6/17/14 NOTES SHORTENED)

SDP 89-205