

INDEX OF SHEETS

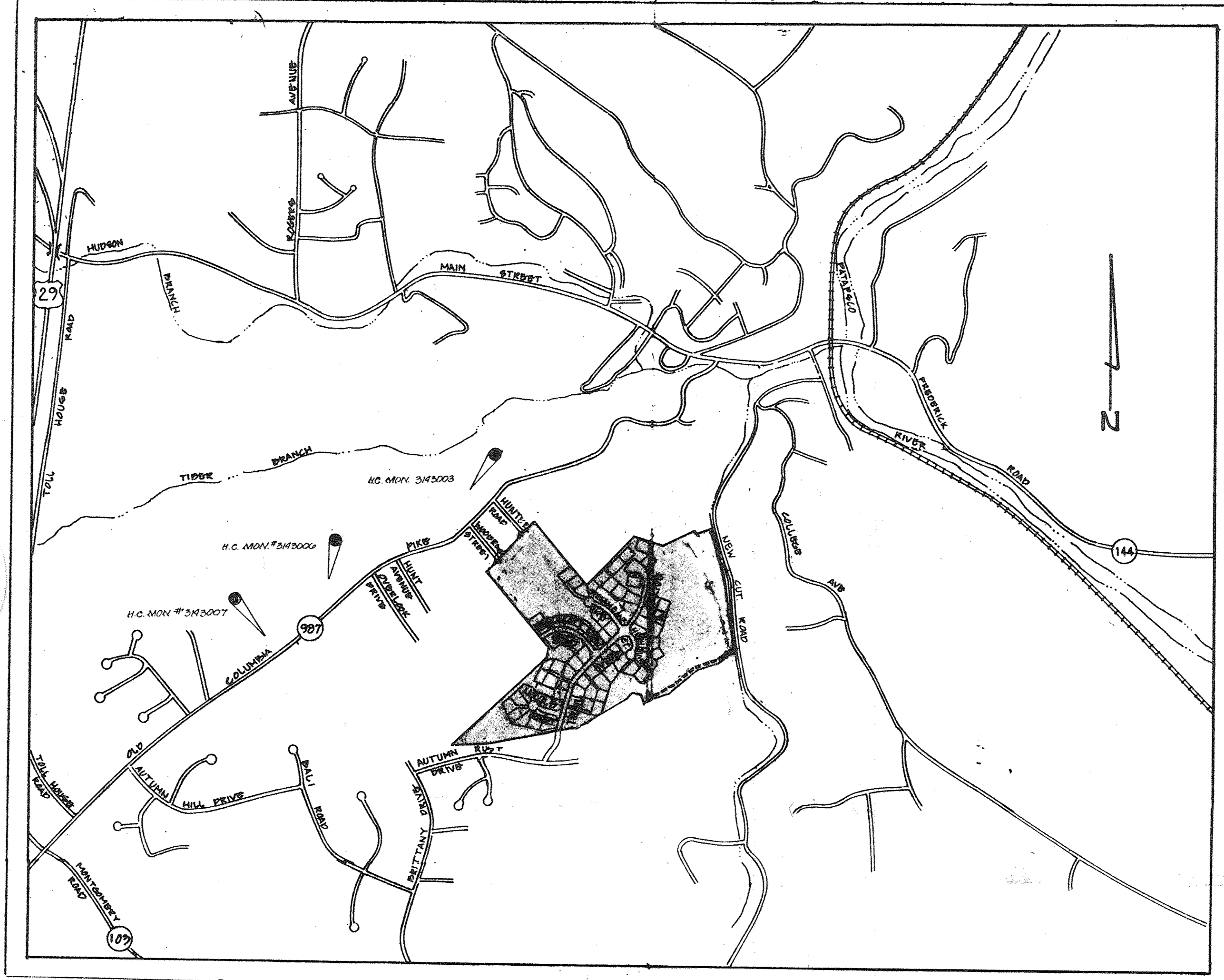
SHEET NO.	TITLE
1.	COVER SHEET
2.	ROAD PLAN & PROFILE TRAIL VIEW DR.
3.	ROAD PLAN & PROFILE TRAIL VIEW DR. AND HIGH TIMBER COURT
4.	ROAD PLAN & PROFILE TRAIL VIEW DR.
5.	ROAD PLAN & PROFILE ELLICOTT VIEW RD. AND STREAMBANK WAY
6.	STORM DRAIN PROFILE
7.	STORM DRAIN PROFILE & ROAD DETAILS
8.	GRADING, SEDIMENT CONTROL, & DRAINAGE AREA MAP
9.	GRADING, SEDIMENT CONTROL, & DRAINAGE AREA MAP
10.	GRADING, SEDIMENT CONTROL, & DRAINAGE AREA MAP
11.	SEDIMENT CONTROL DETAILS
12.	STORMWATER MANAGEMENT PROFILES & DETAIL
13.	DRAINAGE AREA MAP

BENCHMARKS

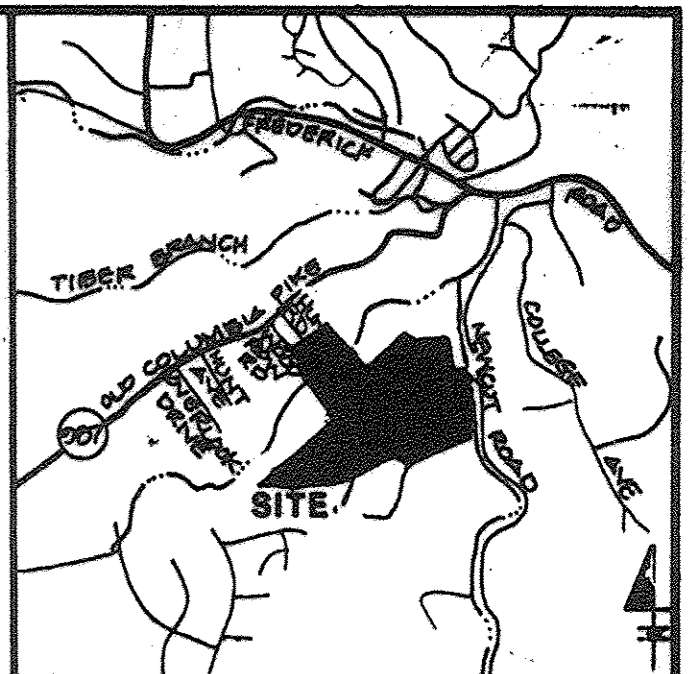
MONUMENTS	DISCRIPTION	COORDINATES	ELEVATIONS
3143003	74" KEBAK 0.3' BELOW SURFACE ON SLOPE 26.5% S OF & ROAD	N 921552.582 E 856084.943	255.880
3143006	MON @ SURFACE 20.5' N OF & OF OLD COLUMBIA PIKE & 108' E OF OF OVERLOOK PK	N 520553.384 E 854021.390	258.553
3143007	10' SE & OF OLD COLUMBIA PIKE, 0.5' BELOW SURFACE	N 520132.273 E 853529.284	286.192

THE HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE FOLLOWING GEODETIC CONTROL STATIONS:

3043001	N 516396.543 E 855656.506
3143006	N 520553.384 E 854021.390



LOCATION MAP
SCALE: 1" = 600'



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF ANY CONSTRUCTION.
- STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 REVISED EDITION.
- STREET TREES TO BE PROVIDED AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- CLASS OF BEDDING FOR STORM DRAIN SYSTEMS TO BE CLASS "C" BEDDING.
- FOR STORM DRAIN INSTALLATION ON FILL, REMOVE UNSUITABLE MATERIAL AND PROVIDE COMPACTED BACKFILL TO 95% AASHTO T-99 (SHOWN AS CONTROLLED FILL ON PROFILE SHEETS).
- NO HOUSE CONSTRUCTION CAN OCCUR WITHIN 20 FT. OF A SEDIMENT TRAP UNTIL THE UPLAND AREA IS STABILIZED.

LANDSCAPE		TABULATION		
SYMBOL	NUMBER	NAME	SIZE	REMARKS
	99	AGER SACCARARUM (SUGAR MAPLE)	2 1/2" CAL. (MIN.)	BALLED/ BURLAPPED
	20	CRATEAGUS PHAENOPYRUM (WASHINGTON HAWTHORN)	2 1/2" CAL. (MIN.)	BALLED/ BURLAPPED
	43	OAK	2 1/2" CAL. (MIN.)	BALLED/ BURLAPPED

12. ALL SIDEWALK RAMPS TO CONFORM TO A.D.A REQUIREMENTS

CAPLAN'S PROPERTY

ROAD CONSTRUCTION DRAWINGS

2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO APPROVE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

Michael J. Sgall 7/27/92
DATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

[Signature] 7/27/92
PROFESSIONAL ENGINEER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 8/1/92
CHIEF, LAND DEVELOPMENT DIVISION

[Signature] 8/15/92
CHIEF, BUREAU OF HIGHWAYS

[Signature] 8-21-92
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

[Signature] 9/4/92
DEPT. DIVISION OF ZONING, PLANNING AND LAND DEVELOPMENT

THIS PLAN IS SUBJECT TO WAIVER W.P. 89-53 DECISIONS RENDERED 12-13-1989, CUL-DE-SAC LENGTH APPROVED TO EXCEED 1500 FEET REGULATION SECTION 16.13.C.10 AND ROAD IMPROVEMENTS TO NEW CUT ROAD, REGULATION SECTION 16.13 B.G. DEDICATION REQUIRED BUT NO IMPROVEMENTS DUE TO SCENIC ROAD CRITERIA.

APRIL 16, 2018: CAPITAL PROJECT DIDO ELLICOTT VIEW RISER RETROFIT. THIS CAPITAL PROJECT INVOLVES RETROFIT OF EXISTING CONCRETE RISER. THE PROPOSED RETROFIT PROVIDES CONTINUOUS MONITORING AND ADAPTING CONTROL (CMAC) TO THE POND BY INSTALLING A 6-INCH ACTUATED BUTTERFLY VALVE OVER THE CURRENT 6-INCH LOW FLOW ORIFICE. A WATER SENSOR WILL ALSO BE INSTALLED IN THE POND TO PROVIDE REAL-TIME MONITORING OF THE WATER LEVEL WITHIN THE POND. THE POND WILL BE ACTIVELY MANAGED USING DATA FROM THE WATER LEVEL SENSOR AND NATIONAL WEATHER FORECAST. THE ON-SITE HARDWARE IS CONNECTED TO OPT'S CLOUD BASED SOFTWARE (OPTIMBUS). THE SOFTWARE WILL BE DESIGNED TO ADJUST THE VALVE PERCENT OPEN TO MINIMIZE DISCHARGE RATES FOR INDIVIDUAL STORM EVENTS.

PLANNING BOARD CASE # 249 APRIL 14, 1989
SKETCH PLAN 5-89-23
PRELIMINARY PLAN P-89-71
FINAL PLAN P-90-159

NO.	DATE	DESCRIPTION
1	21 NOV 95	ADDED STORM DRAIN FROM I-24 TO I-21

DESIGNED		DATE		BY		DESCRIPTION	
DRAWN		DATE		BY		DESCRIPTION	
CHECKED		DATE		BY		DESCRIPTION	
APPROVED		DATE		BY		DESCRIPTION	

OWNER DEVELOPER

FULTE HOME CORPORATION
1501 SOUTH EDGEWOOD STREET, SUITE 1
BALTIMORE, MARYLAND 21227

COVER SHEET
LOTS 1-116
CAPLAN'S PROPERTY
TAX MAP: 25 PARCELS: 38 & 62 & P.O. 278
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
JULY 14, 1992

1603

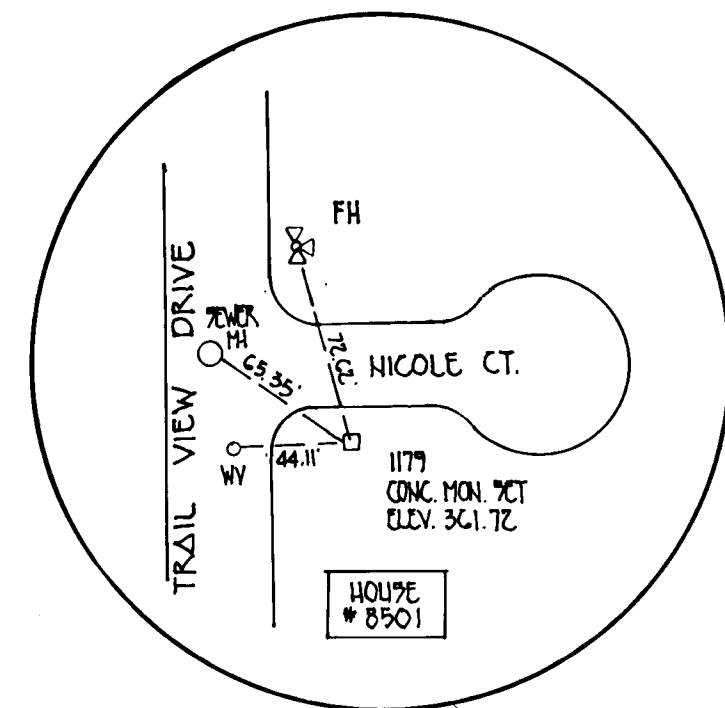
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DETAIL NT2

APPROVED
DEPARTMENT OF PUBLIC WORKS

[Signature]
CHIEF, BUREAU OF HIGHWAYS

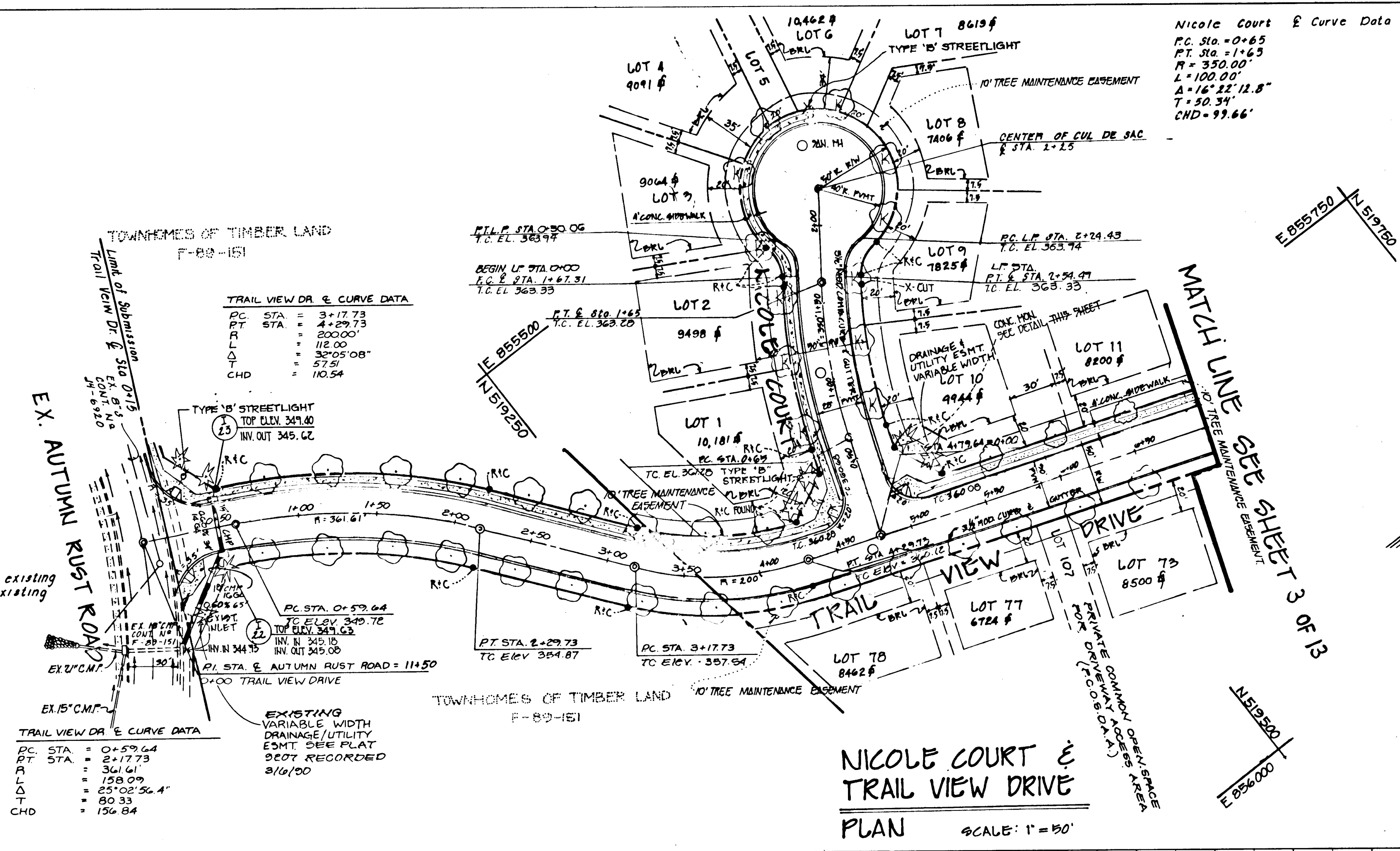
[Signature]
CHIEF, BUREAU OF ENGINEERING

[Signature]
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

8/15/92
DATE

9/4/92
DATE

Note: Contractor to tie into existing curb & sidewalk of existing Autumn Rust Road.



- LIGHTING NOTES**
- Type 'A' 150 watt high pressure sodium vapor luminaires mounted on a 25' high galvanized steel pole.
 - Type 'B' 100 watt high pressure sodium vapor post top mounted on a 14' high fiberglass pole.

NOTE: (PCOS.D.A.A.) PRIVATE COMMON OPEN SPACE DRIVEWAY ACCESS AREA

LEGEND
• RIC • DENOTES FCC • 10G REGULAR • CAP DET



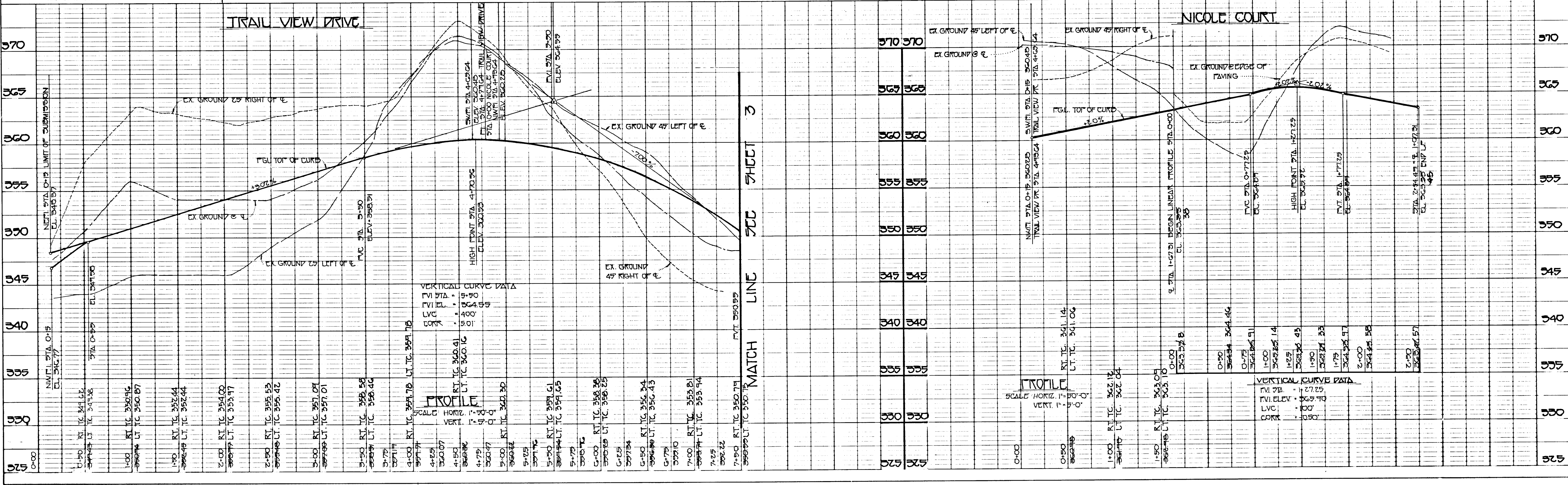
PLAN AND PROFILE
TRAIL VIEW DRIVE AND NICOLE COURT
STA 0+00 TO STA 7+00

**LOTS 1-11
CAPLAN'S PROPERTY**
TAX MAP # 27 PARCELS 30 & 32 TO 370
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
MULTI HOME CORPORATION
1901 SOUTH EDGEWOOD STREET, SUITE 11
BALTIMORE, MARYLAND 21227

SCALE AS SHOWN DATE JULY 14, 1992 DWG. NO. 2 OF 10
DES. M. TAYLOR DRN. J. SMITH CHK. C. CROVO 5R

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
1171 BALTO. NAT. PK., SUITE 100, ELICOTT CITY, MD 21042



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APPROVED
DEPARTMENT OF PUBLIC WORKS

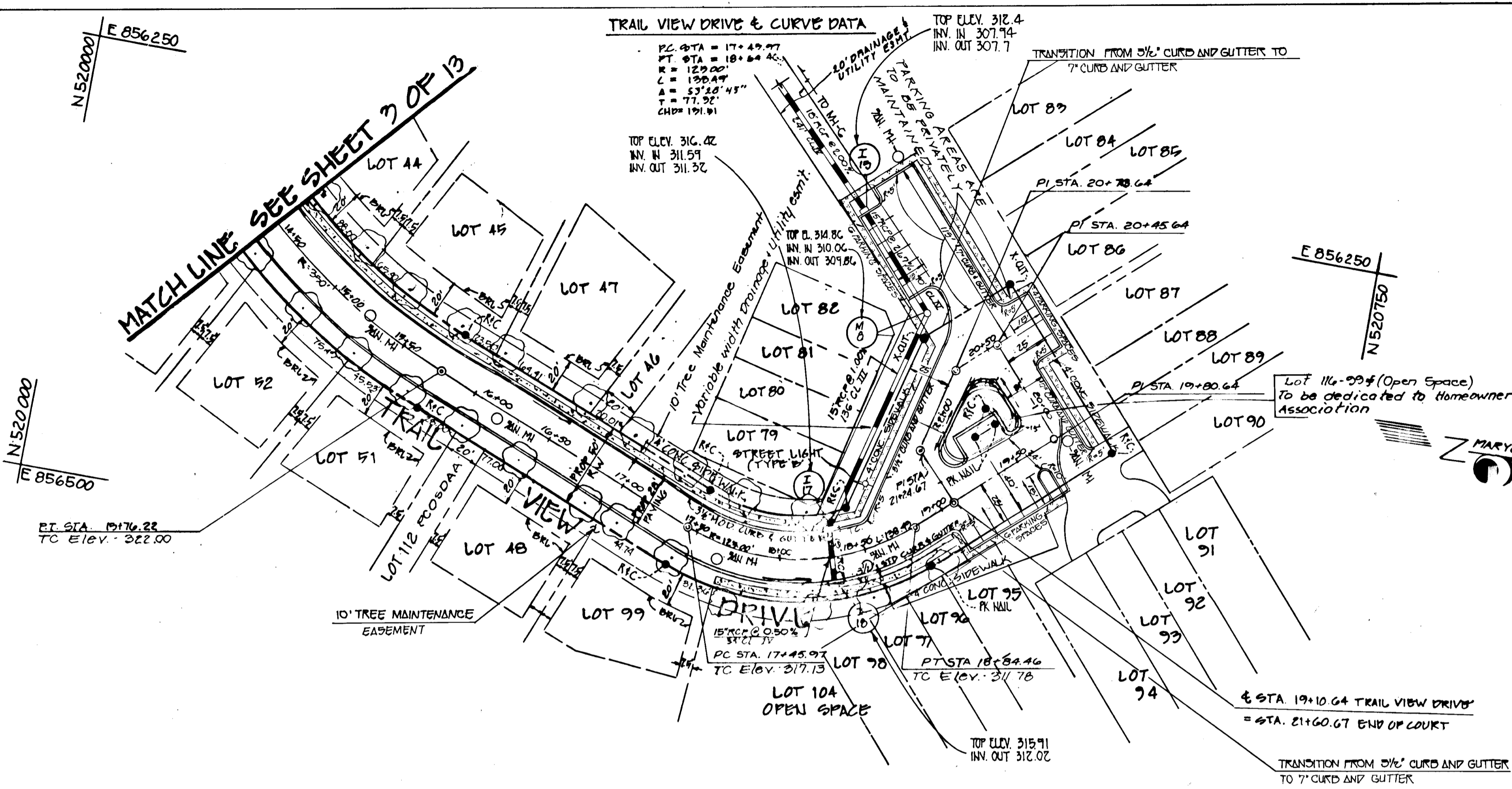
[Signature] 8/14/92
DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS

[Signature] 8/31/92
DATE

APPROVED
OFFICE OF PLANNING AND ZONING

[Signature] 9/4/92
DATE



- LIGHTING NOTES**
- Type 'A' 150 watt high pressure sodium vapor luminaire mounted on a 25' high galvanized steel pole.
 - Type 'B' 100 watt high pressure sodium vapor post top mounted on a 14' high fiberglass pole.

- CURBING NOTES**
- Trail View Drive - T Curb Begin 10' Transition From 3/2" curb to T curb @ Sta 19+19. TYPICAL BOTH SIDES OF ROAD.
- Area within the Public R/W to be Privately Maintained (This sheet only)
- NOTE: (FOODAA) PRIVATE COMMON OPEN SPACE DRIVEWAY ACCESS AREA
- LEGEND**
- R/C DENOTES REDUCED C/P R/C



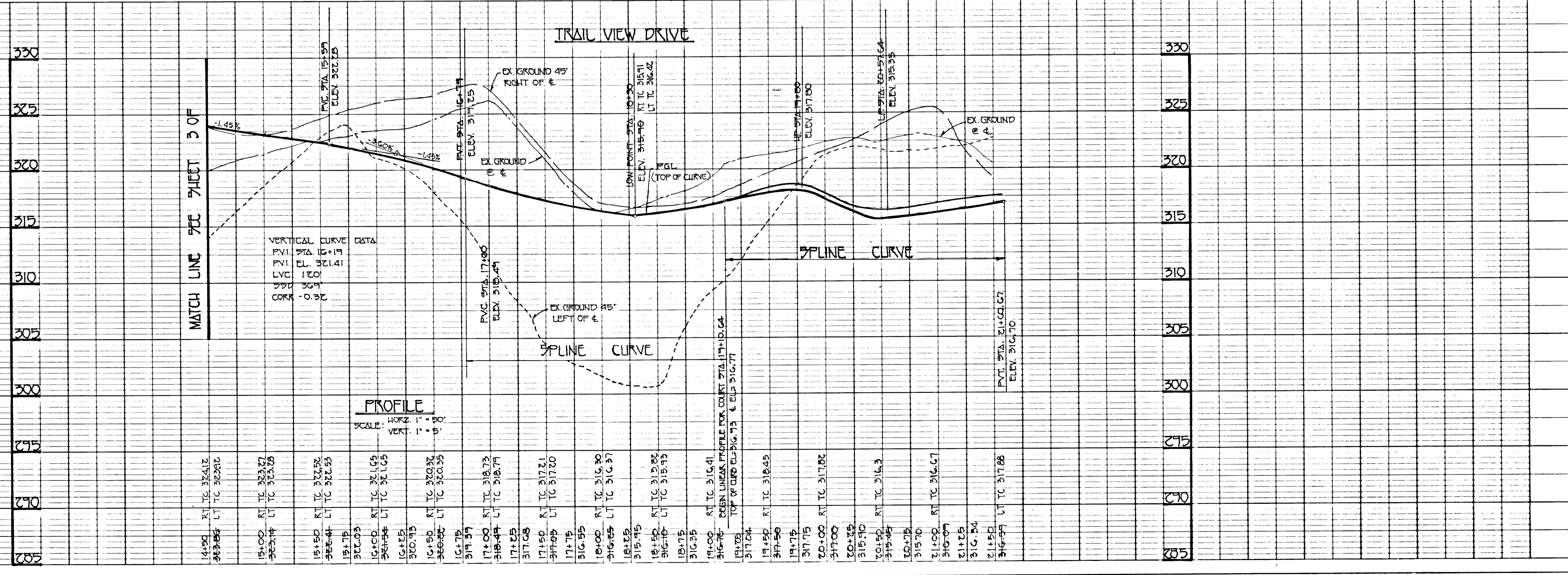
PLAN AND PROFILE
TRAIL VIEW DRIVE
STA. 14+50 TO STA. 21+60.67

LOTS 1-11C
CAPLAN'S PROPERTY
TAX MAP 25 PARCELS 33+02+P.O. 270
2ND ELECTION DIST. HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
PULTE HOME CORPORATION
1901 SOUTH EDGEWOOD STREET
SUITE 12
BALTIMORE, MARYLAND 21227

SCALE AS SHOWN DATE JULY 14, 1992 DWG. NO. 4 OF 13
DES. M. TAYLOR DRN. J. SMITH CHK. C. CROWNO SR.

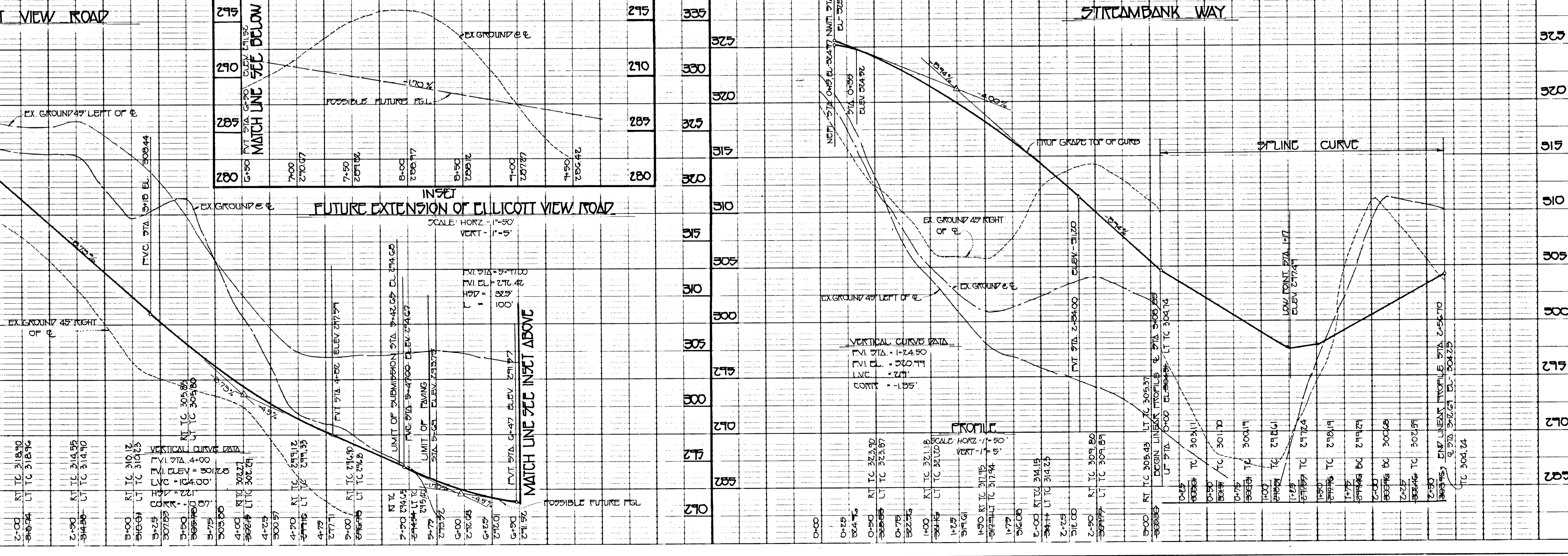
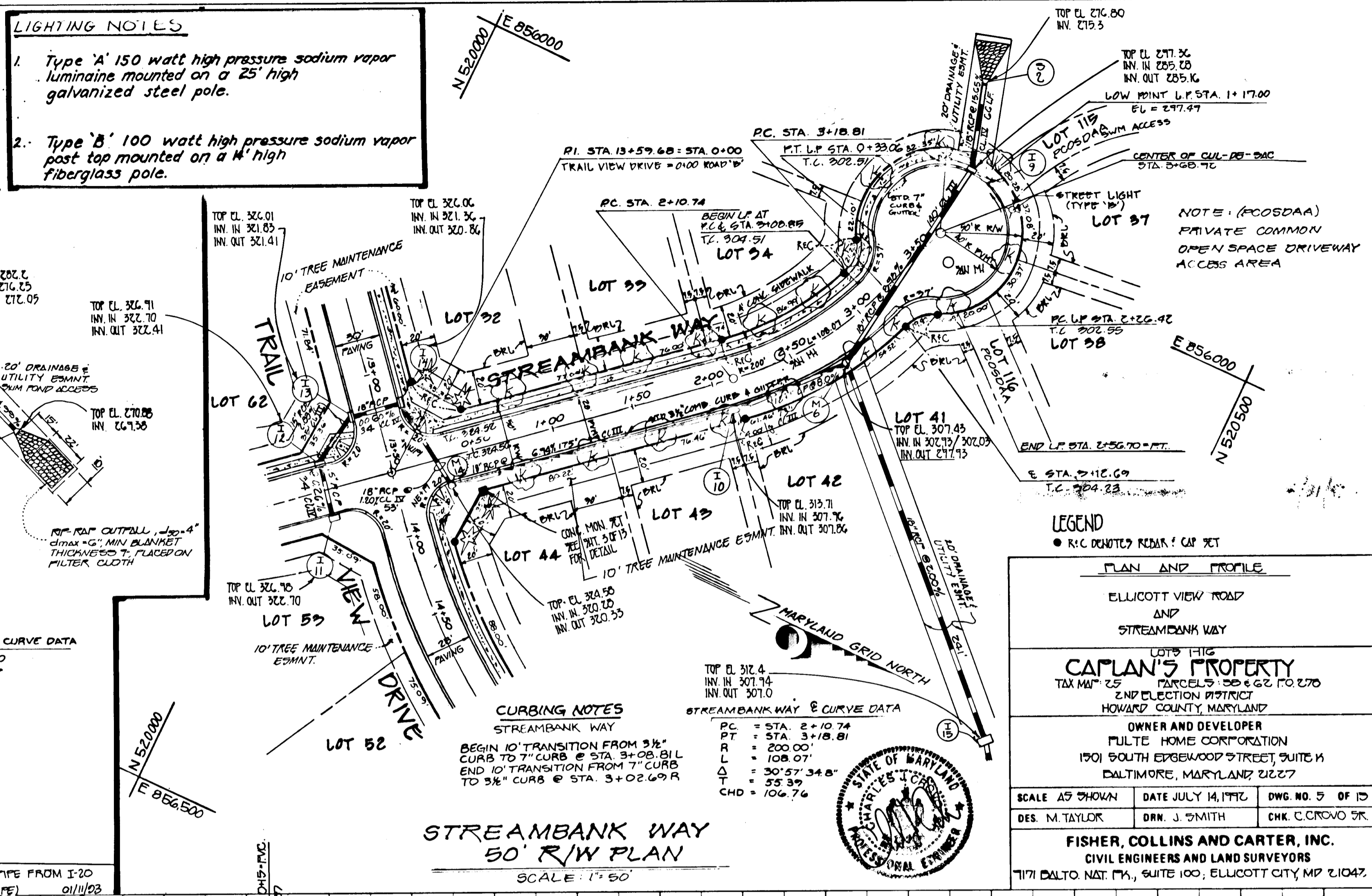
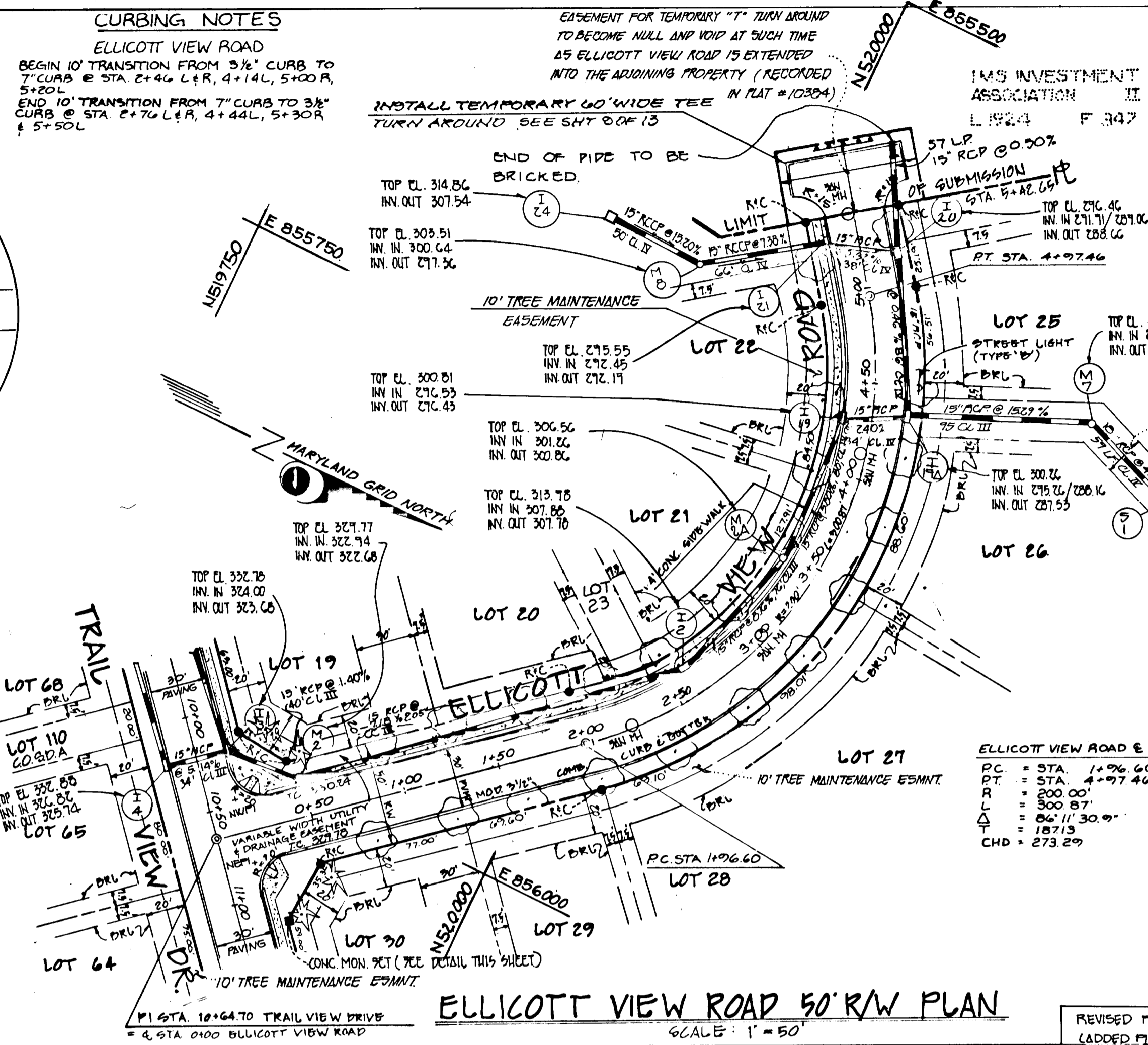
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
9171 BALTO. NAUT PIKE SUITE 100 ELLICOTT CITY, MARYLAND 21042



DATE	
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1603



APPROVED	DEPARTMENT OF PUBLIC WORKS
<i>[Signature]</i>	8/21/92
CHIEF, BUREAU OF HIGHWAYS	DATE
<i>[Signature]</i>	8/21/92
CHIEF, BUREAU OF ENGINEERING	DATE
<i>[Signature]</i>	9/4/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE

LEGEND
 ● R/C DEDICATED ROADWAY CAP SET

PLAN AND PROFILE
 ELLCOTT VIEW ROAD
 ANP
 STREAMBANK WAY

LOTS 19-30
CAPLAN'S PROPERTY
 TAX MAP 25 PARCELS 306 & 32 TO 370
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 FULTE HOME CORPORATION
 1501 SOUTH EDGEWOOD STREET, SUITE 14
 BALTIMORE, MARYLAND 21227

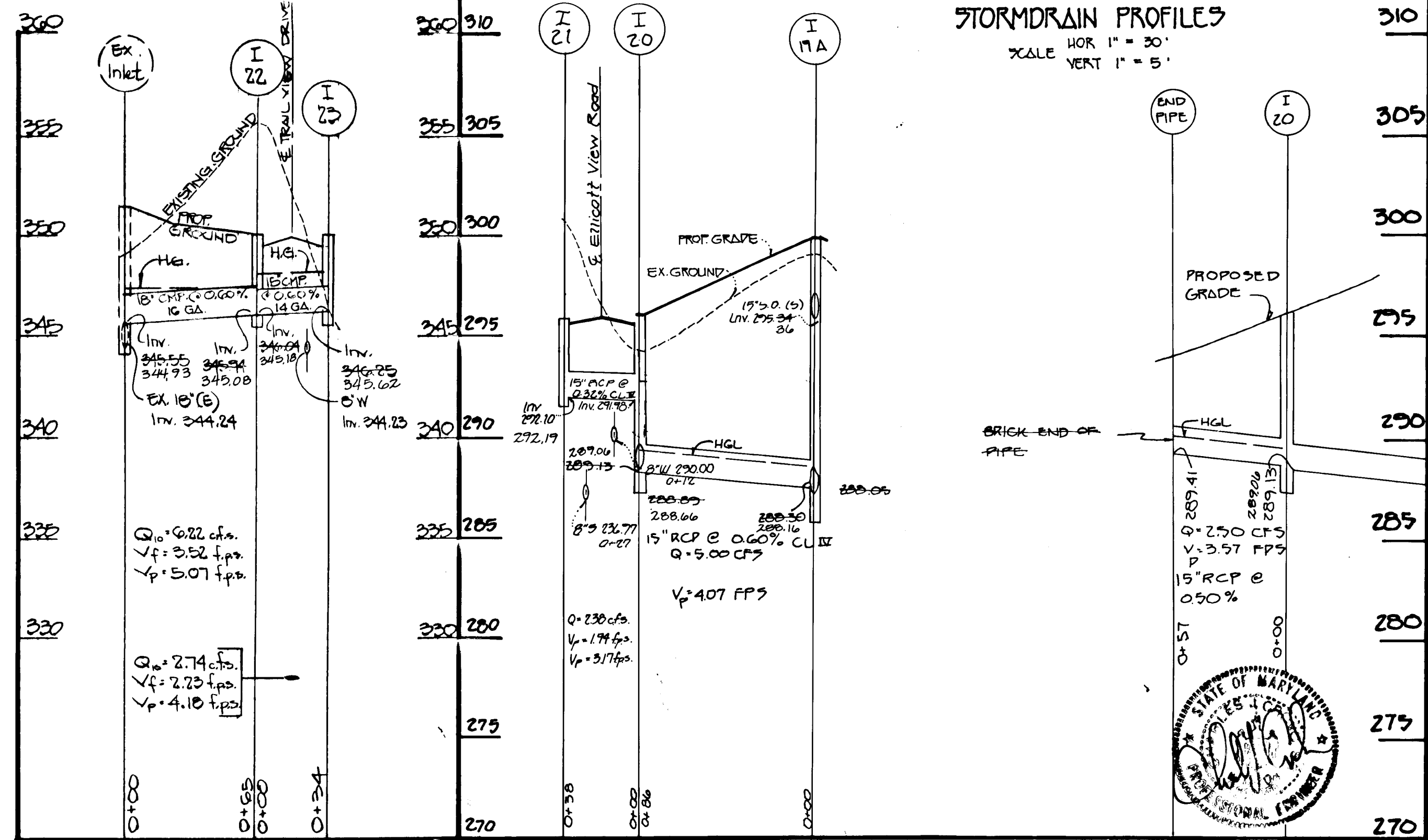
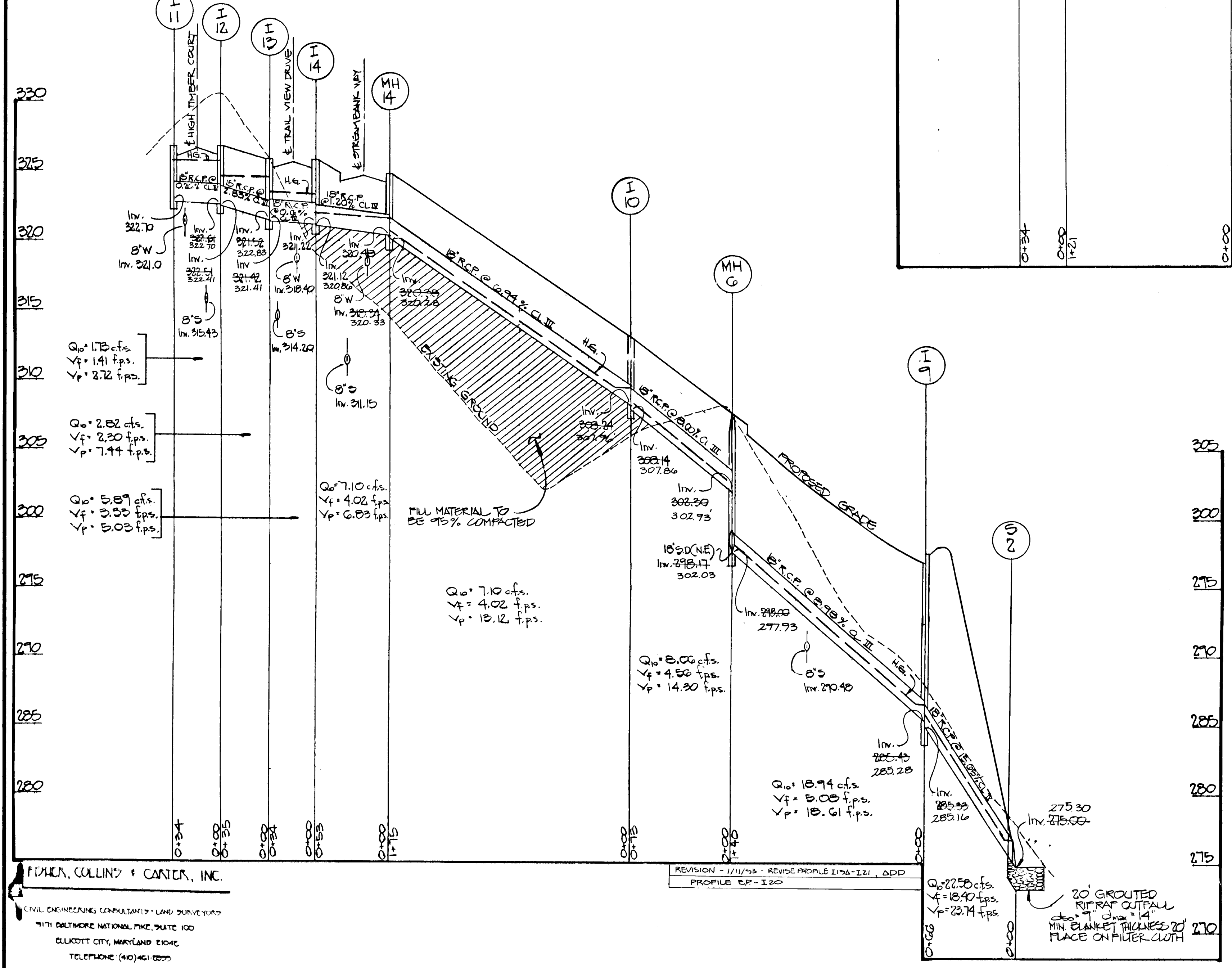
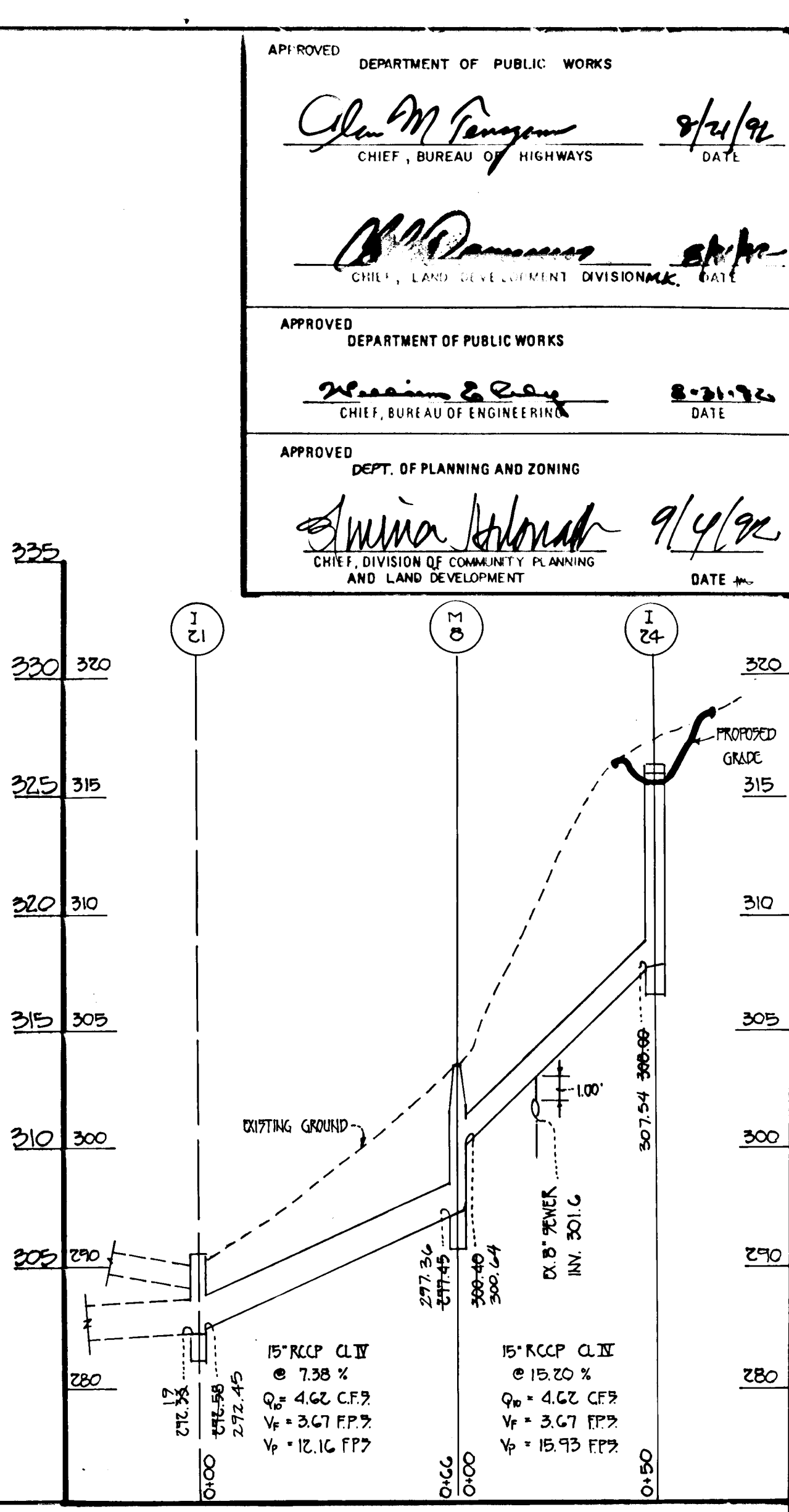
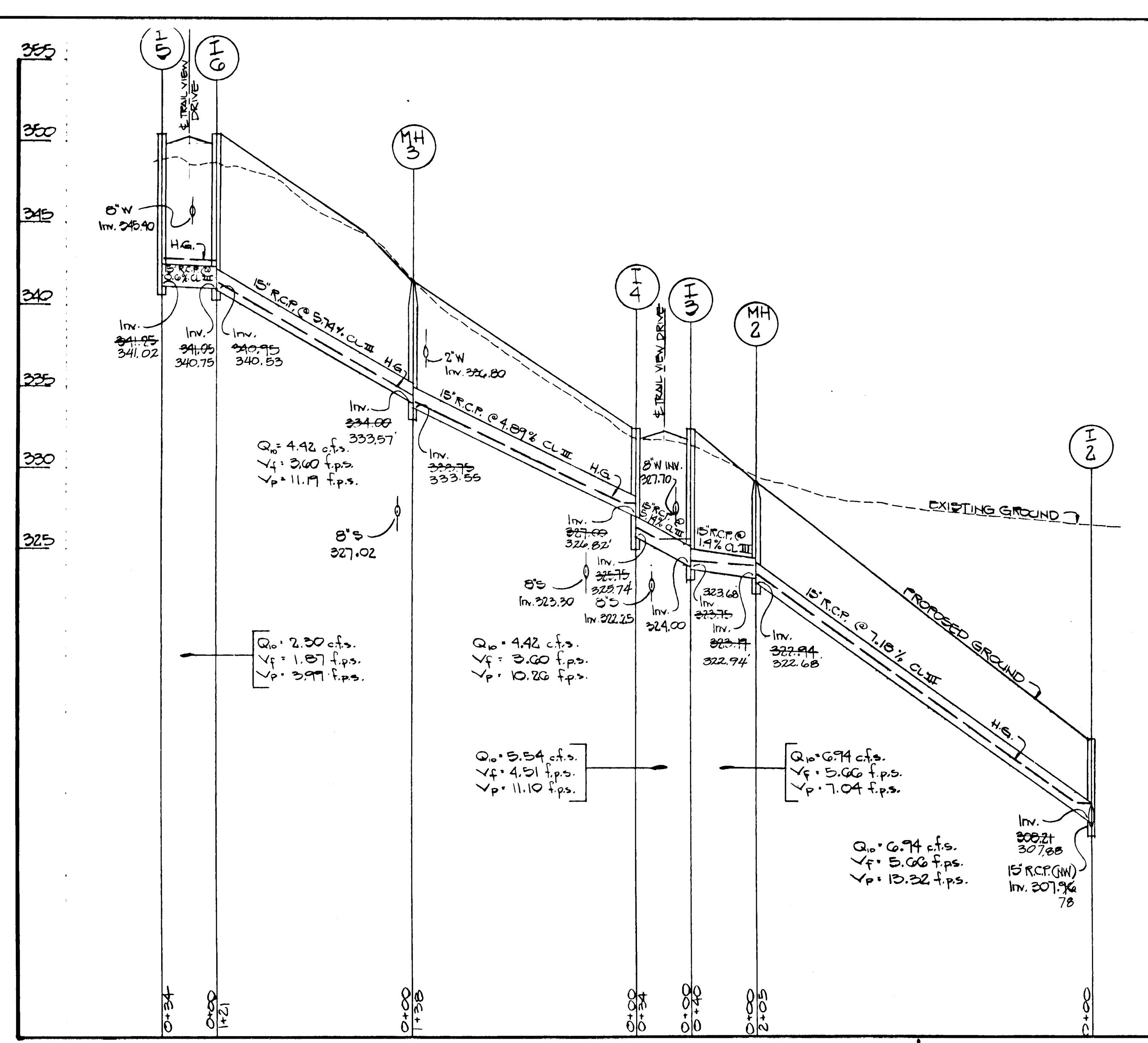
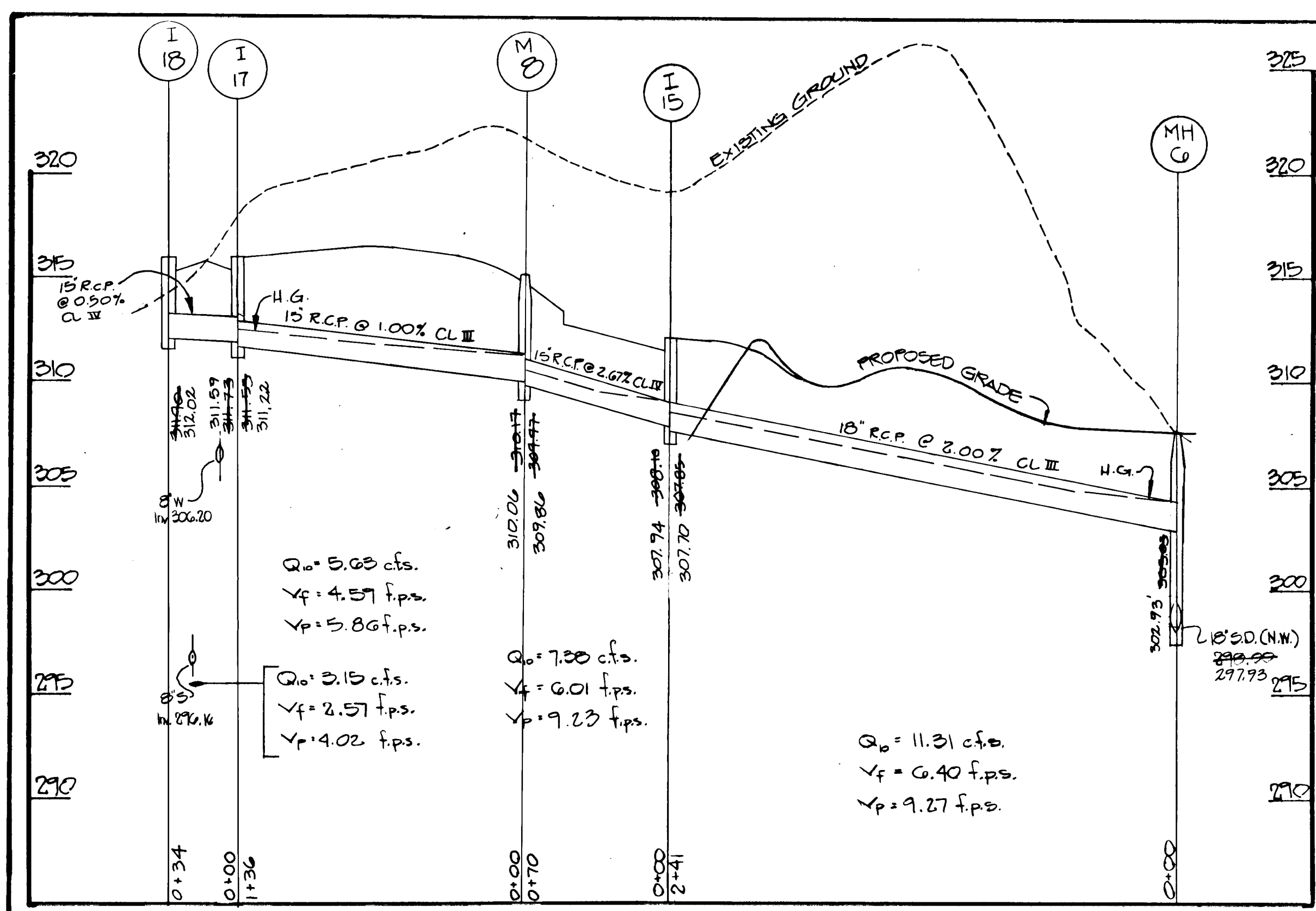
SCALE AS SHOWN DATE JULY 14, 1992 DWG. NO. 5 OF 15
 DES. M. TAYLOR DRN. J. SMITH CHK. C. CROWD OR

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 1171 BALTO. NAT. TR., SUITE 100, ELLCOTT CITY, MD 21047

APPROVED DEPARTMENT OF PUBLIC WORKS
John M. Tangeman 9/4/92
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
John M. Tangeman 9/4/92
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPT. OF PLANNING AND ZONING
John M. Tangeman 9/4/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



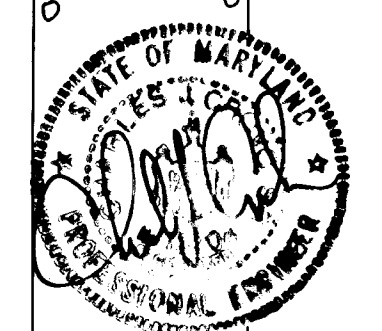
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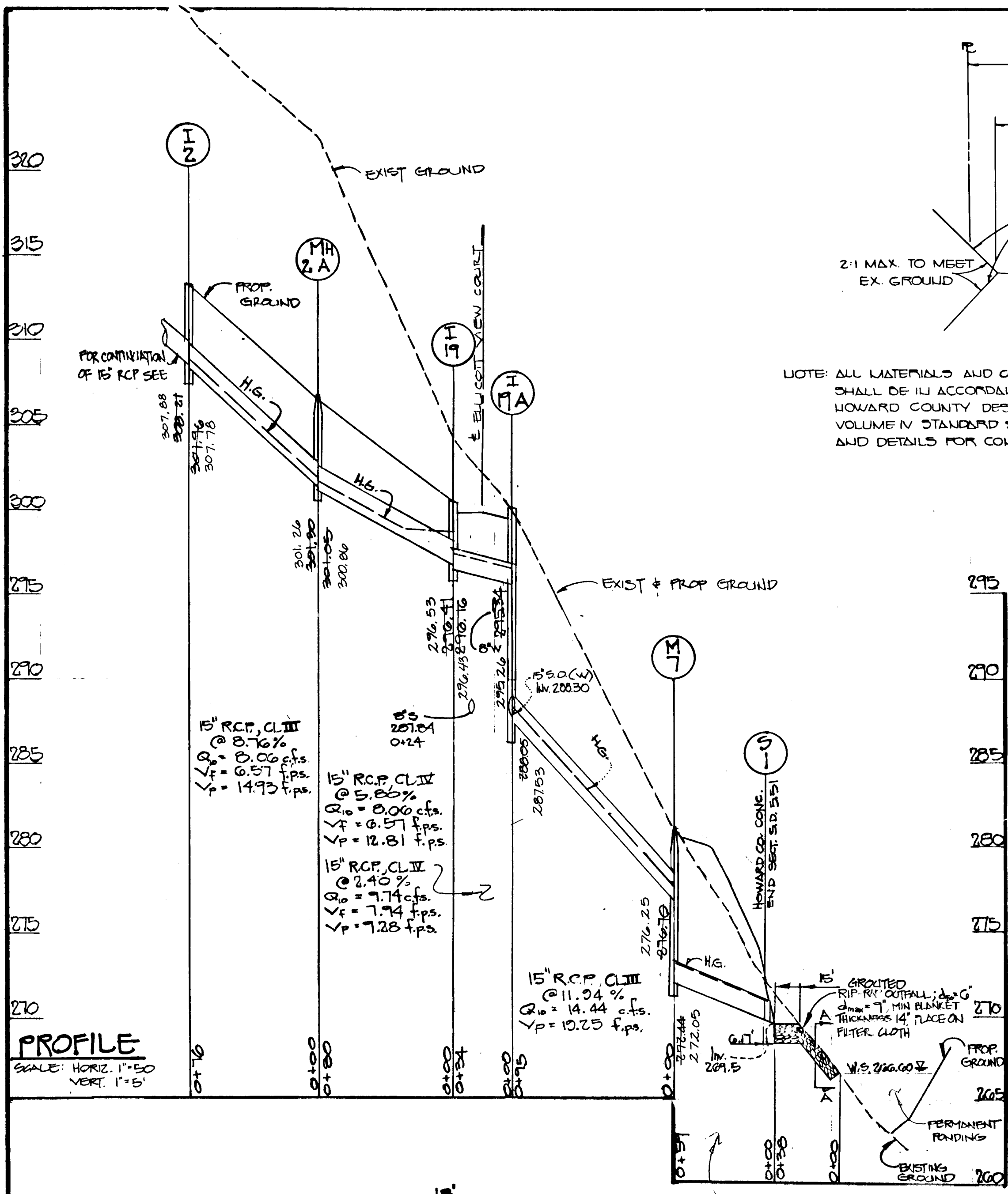
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS - LAND SURVEYORS
 7171 DELMONT NATIONAL PIKE, SUITE 100
 CLARKSBURG, MARYLAND 21031
 TELEPHONE (410) 461-0225
 FAX (410) 790-3784

REVISION - 1/11/93 - REVISE PROFILE I 18-121, ADD PROFILE EF-120

OWNER - DEVELOPER
 FULTE HOME CORPORATION
 1501 SOUTH EDGEWOOD STREET, SUITE K
 BALTIMORE, MARYLAND 21227

STORM DRAIN PROFILES
 LOTS 1-116
CAPLAN'S PROPERTY
 TAX MAP 25 PARCELS 38 & 62 & P.O. 278
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 JULY 14, 1992



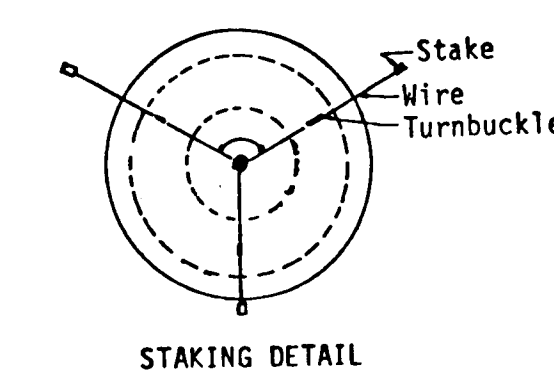
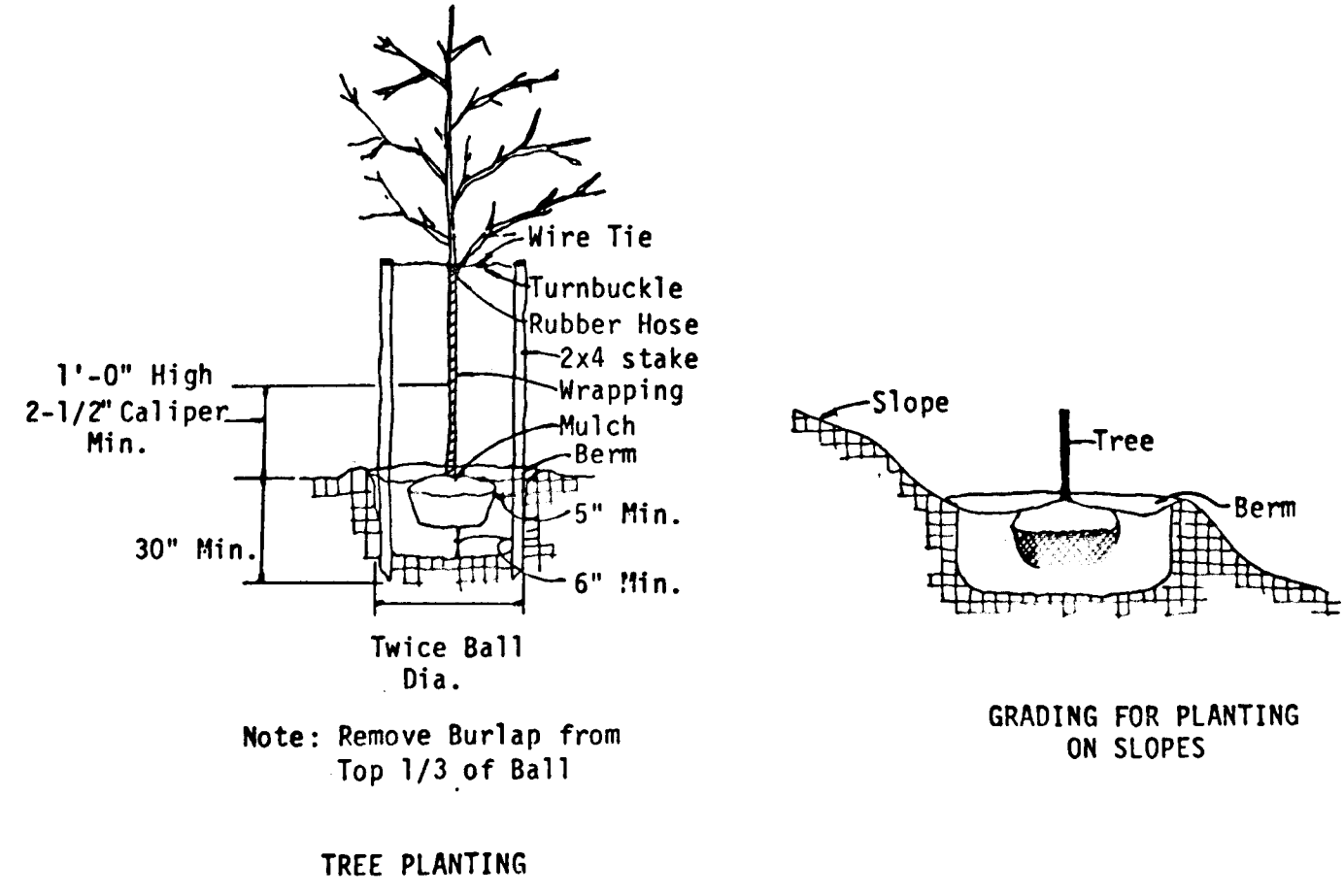


PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

SECTION A-A
NO SCALE

10' R.C.P. @ 4.00%
CL II
Q₁ = 14.44 cfs
Q₂ = 11.77 cfs

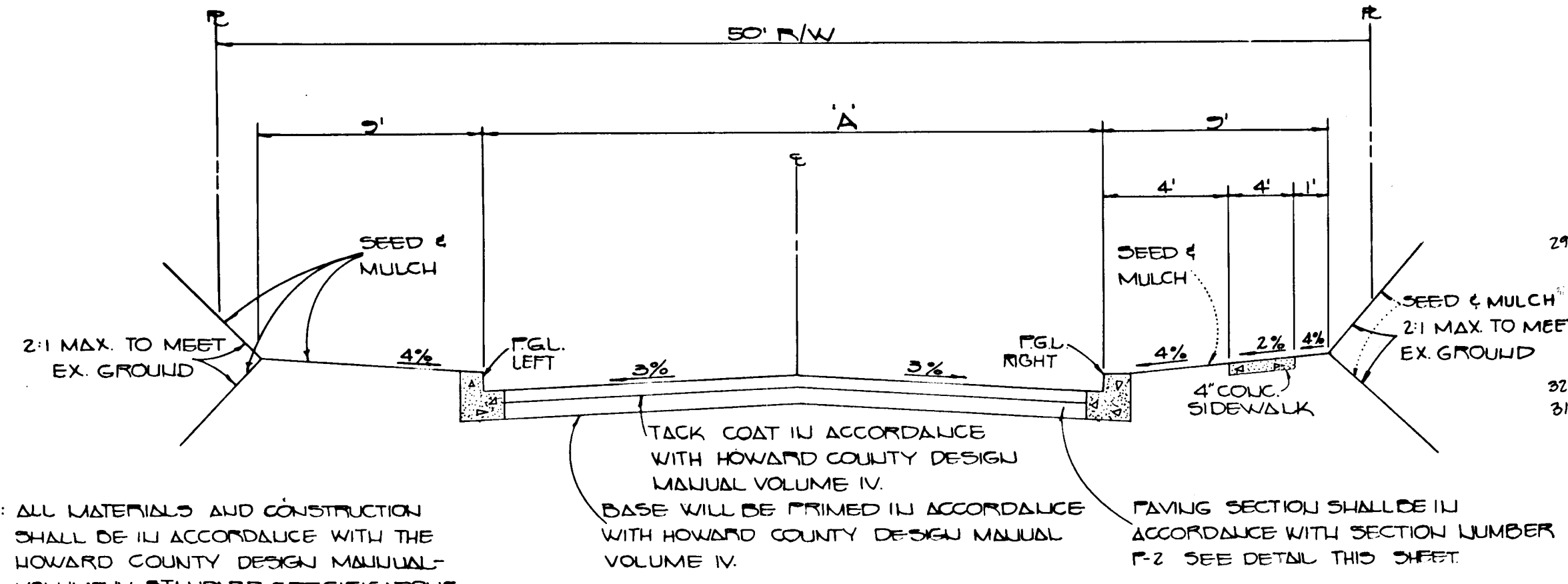
0.040' DEPTH
A = 3.60 WF = 10.028 S = 11.8% n = 0.025
V = 1.400 (3.60) / 10.028 (0.118)⁵
V = 4.98 f.p.s. Q = 17.93 cfs.



TREE PLANTING

STAKING DETAIL

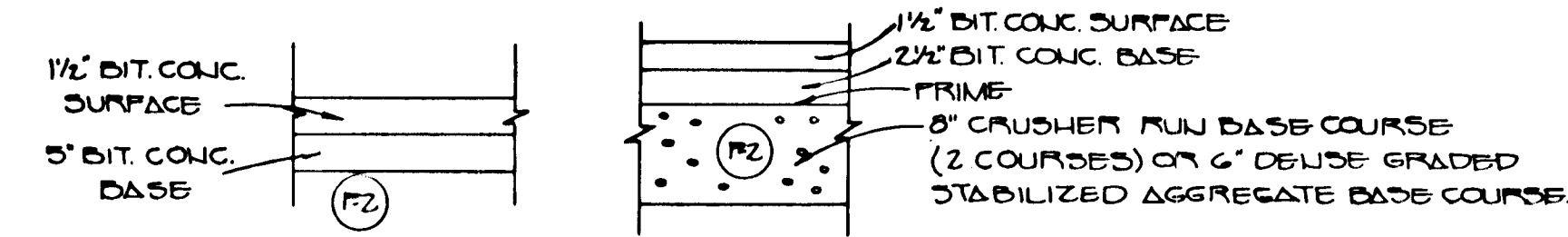
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.



TYPICAL PAVING ROAD SECTION
NO SCALE

NO.	TOP ELV.	ROAD	ROAD STATION	OFFSET	TYPE	REMARKS
I-2	315.75	ELLIOTT VIEW	CL-STA. 2+61	16.3' L	A-5	S.D. 4.01
I-3	332.47	TRAIL VIEW DR.	CL-STA. 10+20	16.3' L	A-5	S.D. 4.01 & 4.83
I-4	332.47	TRAIL VIEW DR.	CL-STA. 10+20	16.3' R	A-5	S.D. 4.01 & 4.83
I-5	349.85	TRAIL VIEW DR.	CL-STA. 7+60	16.3' L	A-5	S.D. 4.01 & 4.83
I-6	349.85	TRAIL VIEW DR.	CL-STA. 7+60	16.3' R	A-5	S.D. 4.01 & 4.83
I-9	327.77	STREAMBANK WAY	LP-STA. 1+12.5	15.5'	A-5	S.D. 4.01 & 4.83
I-10	327.77	STREAMBANK WAY	LP-STA. 2+05	15.5'	A-5	S.D. 4.01 & 4.83
I-11	327.77	HIGH TIKKER CT.	CL-STA. 0+42	14.4'	A-5	S.D. 4.01 & 4.83
I-12	327.77	HIGH TIKKER CT.	CL-STA. 0+42	14.4'	A-5	S.D. 4.01 & 4.83
I-13	327.77	TRAIL VIEW DR.	CL-STA. 13+20	15.5'	A-5	S.D. 4.01 & 4.83
I-14	327.77	TRAIL VIEW DR.	CL-STA. 13+20	15.5'	A-5	S.D. 4.01 & 4.83
I-15	327.77	TRAIL VIEW DR.	CL-STA. 00+71	50' R	STD. MANHOLE	G. 5.12
M-8	304.60	ELLIOTT VIEW	CL-STA. 18+30	14.4'	A-5	S.D. 4.01 & 4.83
I-18	304.60	ELLIOTT VIEW	CL-STA. 18+30	14.4'	A-5	S.D. 4.01 & 4.83
I-19	304.60	ELLIOTT VIEW	CL-STA. 4+25	16.3' L	A-5	S.D. 4.01 & 4.83
I-20	304.60	ELLIOTT VIEW	CL-STA. 5+15	16.3' R	A-5	S.D. 4.01 & 4.83
I-21	304.60	ELLIOTT VIEW	CL-STA. 5+15	16.3' L	A-5	S.D. 4.01 & 4.83
I-22	349.40	TRAIL VIEW DR.	CL-STA. 0+49	16.3' R	A-10	S.D. 4.02 & 4.83
I-23	349.40	TRAIL VIEW DR.	CL-STA. 0+49	16.3' L	A-10	S.D. 4.02 & 4.83
I-19A	304.60	ELLIOTT VIEW	CL-STA. 4+36	16.3' L	A-5	S.D. 4.01
M-2	304.60	ELLIOTT VIEW	CL-STA. 0+83	18' L	STD. MANHOLE	G. 5.12
M-3	341.82	TRAIL VIEW DR.	CL-STA. 8+81	18' R	STD. MANHOLE	G. 5.12
M-6	307.62	STREAMBANK WAY	CL-STA. 2+25	21' R	STD. MANHOLE	G. 5.12
M-7	292.25	R 520, 182 E 855, 853	21+50		STD. MANHOLE	G. 5.12
M-14	324.65	STREAMBANK WAY	CL-STA. 0+35	18' R	STD. MANHOLE	G. 5.12
M-2A	304.60	ELLIOTT VIEW	CL-STA. 3+45	18' L	STD. MANHOLE	G. 5.12
R-1	270.88	SEE PLAN			CONC. ROAD SECTION	S.D. 5.31
R-2	270.88	SEE PLAN			CONC. ROAD SECTION	S.D. 5.31
R-3	270.88	P.W.M. POND OUTFALL			CONC. END SECT.	S.D. 5.31

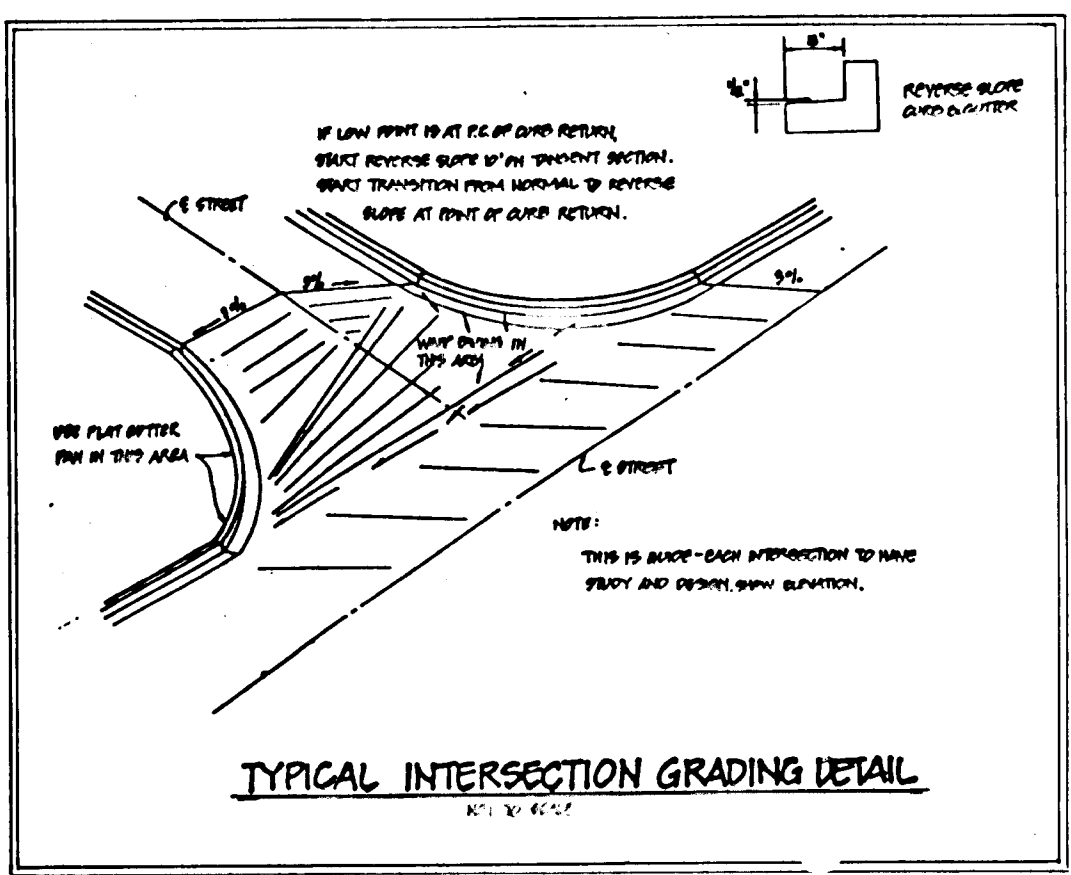
* STANDARD CURB AND GUTTER @ CUL-DE-SAC (L.P. STA. 0+00 TO L.P. STA. 2+56.70)



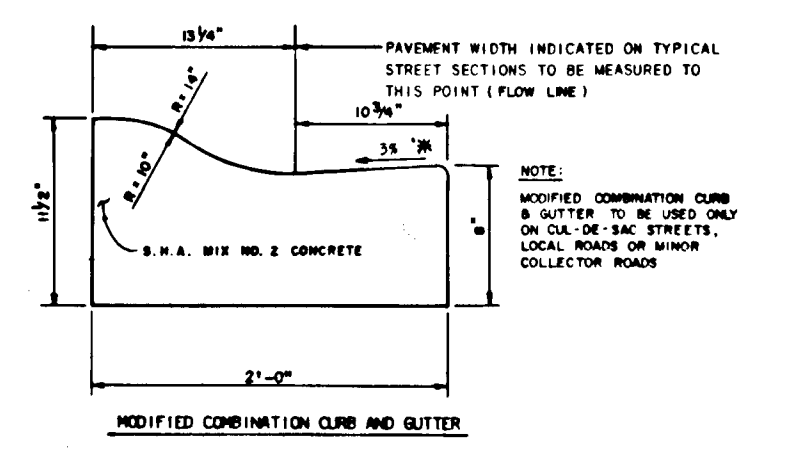
P-2 PAVING SECTION
NO SCALE

STRUCTURE SCHEDULE

NO.	TOP ELV.	ROAD	ROAD STATION	OFFSET	TYPE	REMARKS
I-2	315.75	ELLIOTT VIEW	CL-STA. 2+61	16.3' L	A-5	S.D. 4.01
I-3	332.47	TRAIL VIEW DR.	CL-STA. 10+20	16.3' L	A-5	S.D. 4.01 & 4.83
I-4	332.47	TRAIL VIEW DR.	CL-STA. 10+20	16.3' R	A-5	S.D. 4.01 & 4.83
I-5	349.85	TRAIL VIEW DR.	CL-STA. 7+60	16.3' L	A-5	S.D. 4.01 & 4.83
I-6	349.85	TRAIL VIEW DR.	CL-STA. 7+60	16.3' R	A-5	S.D. 4.01 & 4.83
I-9	327.77	STREAMBANK WAY	LP-STA. 1+12.5	15.5'	A-5	S.D. 4.01 & 4.83
I-10	327.77	STREAMBANK WAY	LP-STA. 2+05	15.5'	A-5	S.D. 4.01 & 4.83
I-11	327.77	HIGH TIKKER CT.	CL-STA. 0+42	14.4'	A-5	S.D. 4.01 & 4.83
I-12	327.77	HIGH TIKKER CT.	CL-STA. 0+42	14.4'	A-5	S.D. 4.01 & 4.83
I-13	327.77	TRAIL VIEW DR.	CL-STA. 13+20	15.5'	A-5	S.D. 4.01 & 4.83
I-14	327.77	TRAIL VIEW DR.	CL-STA. 13+20	15.5'	A-5	S.D. 4.01 & 4.83
I-15	327.77	TRAIL VIEW DR.	CL-STA. 00+71	50' R	STD. MANHOLE	G. 5.12
M-8	304.60	ELLIOTT VIEW	CL-STA. 18+30	14.4'	A-5	S.D. 4.01 & 4.83
I-18	304.60	ELLIOTT VIEW	CL-STA. 18+30	14.4'	A-5	S.D. 4.01 & 4.83
I-19	304.60	ELLIOTT VIEW	CL-STA. 4+25	16.3' L	A-5	S.D. 4.01 & 4.83
I-20	304.60	ELLIOTT VIEW	CL-STA. 5+15	16.3' R	A-5	S.D. 4.01 & 4.83
I-21	304.60	ELLIOTT VIEW	CL-STA. 5+15	16.3' L	A-5	S.D. 4.01 & 4.83
I-22	349.40	TRAIL VIEW DR.	CL-STA. 0+49	16.3' R	A-10	S.D. 4.02 & 4.83
I-23	349.40	TRAIL VIEW DR.	CL-STA. 0+49	16.3' L	A-10	S.D. 4.02 & 4.83
I-19A	304.60	ELLIOTT VIEW	CL-STA. 4+36	16.3' L	A-5	S.D. 4.01
M-2	304.60	ELLIOTT VIEW	CL-STA. 0+83	18' L	STD. MANHOLE	G. 5.12
M-3	341.82	TRAIL VIEW DR.	CL-STA. 8+81	18' R	STD. MANHOLE	G. 5.12
M-6	307.62	STREAMBANK WAY	CL-STA. 2+25	21' R	STD. MANHOLE	G. 5.12
M-7	292.25	R 520, 182 E 855, 853	21+50		STD. MANHOLE	G. 5.12
M-14	324.65	STREAMBANK WAY	CL-STA. 0+35	18' R	STD. MANHOLE	G. 5.12
M-2A	304.60	ELLIOTT VIEW	CL-STA. 3+45	18' L	STD. MANHOLE	G. 5.12
R-1	270.88	SEE PLAN			CONC. ROAD SECTION	S.D. 5.31
R-2	270.88	SEE PLAN			CONC. ROAD SECTION	S.D. 5.31
R-3	270.88	P.W.M. POND OUTFALL			CONC. END SECT.	S.D. 5.31



TYPICAL INTERSECTION GRADING DETAIL
NO SCALE

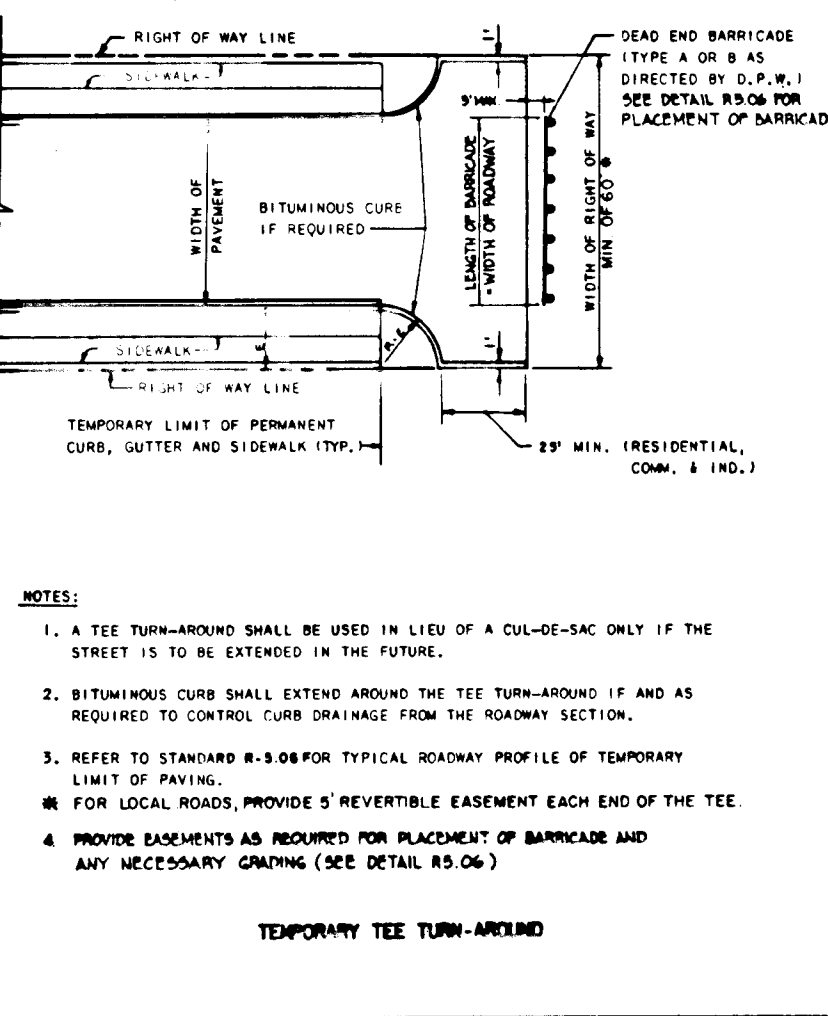


MODIFIED COMBINATION CURB AND GUTTER

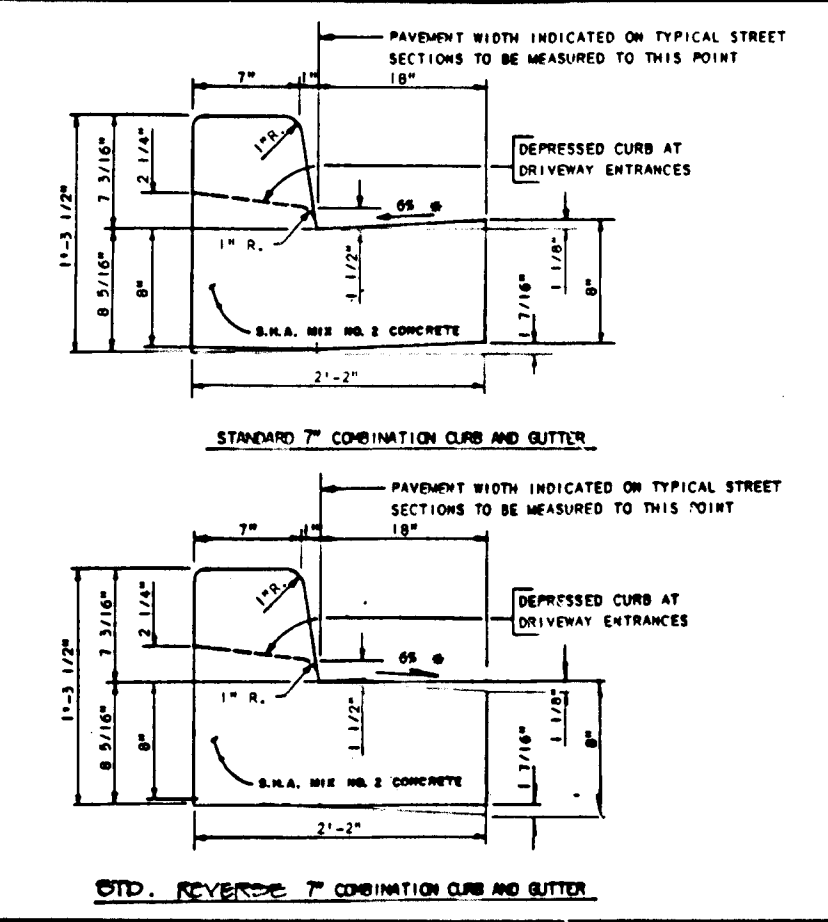
APPROVED DEPARTMENT OF PUBLIC WORKS
Alan M. Tanager 8/21/92
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
M. D. ... 8-21-92
 CHIEF, BUREAU OF ENGINEERING DATE

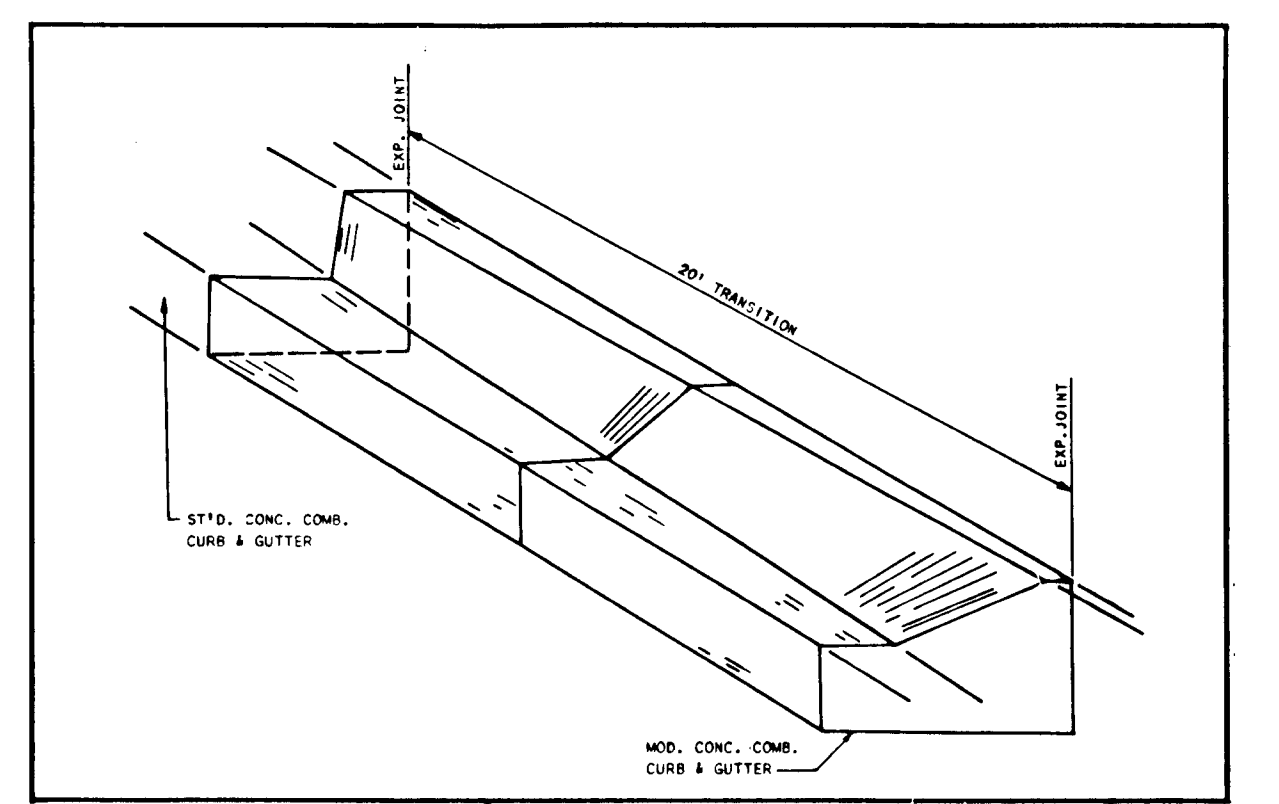
APPROVED DEPT. OF PLANNING AND ZONING
Anna ... 9/4/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



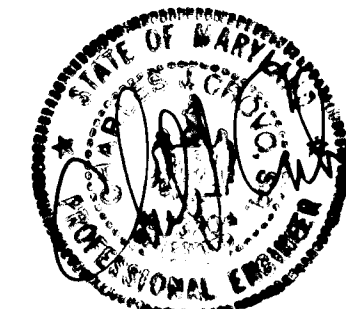
- NOTES:
- A TEE TURN-AROUND SHALL BE USED IN LIEU OF A CUL-DE-SAC ONLY IF THE STREET IS TO BE EXTENDED IN THE FUTURE.
 - BITUMINOUS CURB SHALL EXTEND ABOVE THE TEE TURN-AROUND IF AND AS REQUIRED TO CONTROL CURB DRAINAGE FROM THE ROADWAY SECTION.
 - REFER TO STANDARD R-10 FOR TYPICAL ROADWAY PROFILE OF TEMPORARY LIMIT OF PAVING.
 - FOR LOCAL ROADS, PROVIDE 5' REVERSIBLE EASEMENT EACH END OF THE TEE.
 - PROVIDE EASEMENTS AS REQUIRED FOR PLACEMENT OF BARRICADE AND ANY NECESSARY GRADING (SEE DETAIL R5.06)



STANDARD 7' COMBINATION CURB AND GUTTER



CONCRETE CURB AND GUTTER TRANSITION



OWNER/DEVELOPER

MULTE HOME CORPORATION
 1501 SOUTH EDGEWOOD STREET SUITE 114
 BALTIMORE, MARYLAND 21227

STORM DRAIN PROFILE AND ROAD DETAILS
 LOTS 1-116
CAPLAN'S PROPERTY
 TAX MAP: 25 PARCELS: 38 & 62 & P.O. 278
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 JULY 14, 1992

REVISED PROFILE I-10A TO M-7
 JANUARY 12, 1993

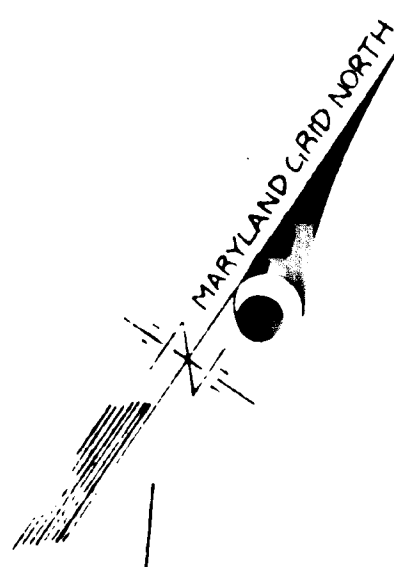
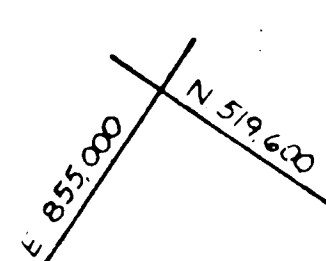
SCALE AS SHOWN CONTRACT NO. FILE NO. SHEET 7 OF 13

1603

FIXLER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS CONSULTANTS & LAND SURVEYORS
 7411 BELTWAY NATIONAL AVE. SUITE 100
 ELLICOTT CITY, MARYLAND 21042
 TELEPHONE: (410) 461-0500
 FAX: (410) 750-3784

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMITS OF DISTURBED AREA
- LIMITS OF WETLANDS
- PROPOSED STORM DRAIN
- EARTH DIKE
- SILT FENCE
- STRAW BALE DIKE CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE
- STEEP SLOPES 25% OR GREATER
- (CONTOURS 2.000 B.F. OR MORE)
- TREE PROTECTION FENCE
- (SEE DETAIL SHEET 12)



STONE OUTLET TRAP #3

DA = 1,300 AC
 STORAGE REQ. = 2,340 CU FT
 STORAGE PRVD = 2,370 CU FT
 BOTTOM ELEV. = 335
 CREST ELEV. = 338
 CREST WIDTH = 20
 BOTTOM DIM. = 40' x 6'
 CUMULATIVE ELEV. = 336.5
 SIDE SLOPES = 2:1

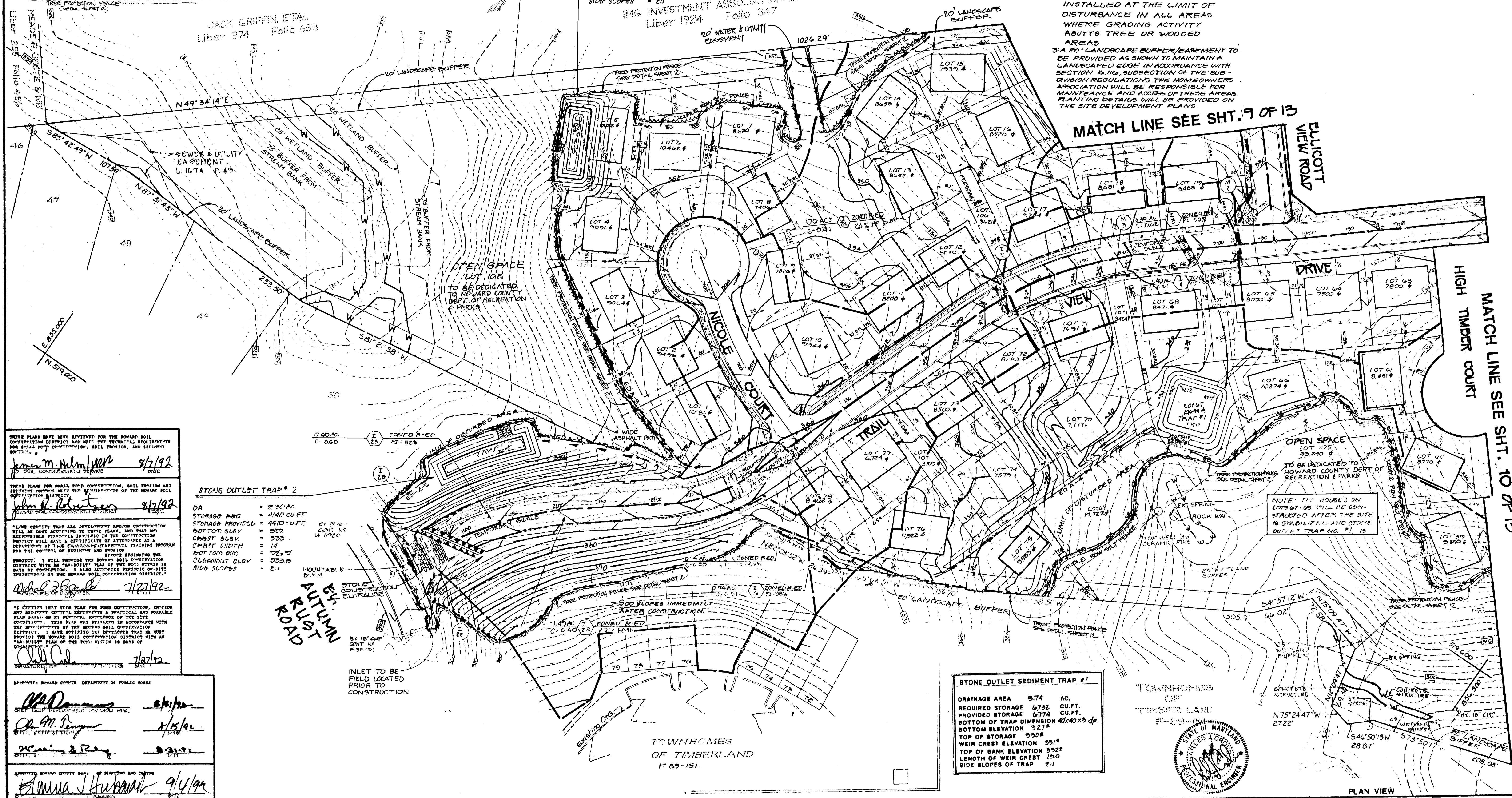
IMG INVESTMENT ASSOCIATION II
 Liber 1924 Folio 847

NOTES: 1. LOTS 5, 24, 35, 36, 37, 47 + 48 MAY NOT BE CONSTRUCTED UNTIL SEDIMENT TRAPS ARE REMOVED WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR.
 2. LIMIT OF DISTURBANCE FENCE (SEE DETAIL SHEET 15) TO BE INSTALLED AT THE LIMIT OF DISTURBANCE IN ALL AREAS WHERE GRADING ACTIVITY AFFECTS TREE OR WOODED AREAS.
 3. A 20' LANDSCAPE BUFFER/EASEMENT TO BE PROVIDED AS SHOWN TO MAINTAIN A LANDSCAPED EDGE IN ACCORDANCE WITH SECTION 16.116, SUBSECTION OF THE SUB-DIVISION REGULATIONS. THE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR MAINTENANCE AND ACCESS OF THESE AREAS. PLANTING DETAILS WILL BE PROVIDED ON THE SITE DEVELOPMENT PLANS.

MATCH LINE SEE SH. 9 OF 13

ELLIOTT VIEW ROAD

MATCH LINE SEE SH. 10 OF 13
HIGH TIMBER COURT



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

James M. Nelson 9/7/92
 SOIL CONSERVATION SERVICE

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

John P. Blanton 8/7/92
 HOWARD SOIL CONSERVATION DISTRICT

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AS A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION.

BEFORE BEGINNING THE PROJECT, I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE WORK WITHIN 30 DAYS OF COMPLETION. I ALSO ADVISE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Michael J. Blanton 7/27/92
 SIGNATURE OF DEVELOPER

I CERTIFY THAT THIS PLAN FOR SOIL CONSERVATION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT THAT I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE WORK WITHIN 30 DAYS OF COMPLETION.

John P. Blanton 7/27/92
 SIGNATURE OF PROFESSIONAL ENGINEER

STONE OUTLET TRAP #2

DA = 2,300 AC
 STORAGE REQ. = 4,140 CU FT
 STORAGE PROVIDED = 4,410 CU FT
 BOTTOM ELEV. = 325
 CREST ELEV. = 328
 CREST WIDTH = 14
 BOTTOM DIM. = 26' x 7'
 CUMULATIVE ELEV. = 323.5
 SIDE SLOPES = 2:1

EX. AUTUMN ROAD

INLET TO BE FIELD LOCATED PRIOR TO CONSTRUCTION

STONE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA 3.74 AC.
 REQUIRED STORAGE 6,792 CU.FT.
 PROVIDED STORAGE 6,774 CU.FT.
 BOTTOM OF TRAP DIMENSION 40' x 10' x 3' dp.
 BOTTOM ELEVATION 327'
 WEIR CREST ELEVATION 330.8'
 TOP OF STORAGE 327'
 TOP OF BANK ELEVATION 331'
 LENGTH OF WEIR CREST 12.0'
 SIDE SLOPES OF TRAP 2:1



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

W.D. Dammons 8/1/92
 CHIEF DEPT. DEVELOPMENT DIVISION MGR.

Ch. M. Duggan 8/15/92
 DEPT. SUPERVISOR

William J. Ray 8/21/92
 DEPT. SUPERVISOR

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Anna J. Hubbard 9/4/92
 PLANNING

OWNER/DEVELOPER

FULTE HOME CORPORATION
 1701 SOUTH EDGEWOOD STREET, SUITE 100
 BALTIMORE, MARYLAND 21227

CAPLAN'S PROPERTY

LOT 1-116
 TAX MAP: 25 PARCELS: 38 & 62 & P.O. 7-3
 2ND ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
 JULY 14, 1992

DESIGNED		DATE		BY	DESCRIPTION
DRAWN		DATE			
CHECKED		DATE			
APPROVED		DATE			

1603

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 Signature: *Michael J. ...* Date: 7/21/92

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 Signature: *John R. Slack* Date: 7/21/92

THREE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 Signature: *James M. ...* Date: 7/17/92

THREE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John R. Slack* Date: 8/17/92

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *Thomas J. ...* Date: 9/4/92

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *James R. ...* Date: 8/31/92

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *John M. ...* Date: 8/16/92

POND CONSTRUCTION CERTIFICATION
 I CERTIFY THAT UPON COMPLETION OF CONSTRUCTION I WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE (O&M) OF THE SMALL POND. O&M WILL BE PERFORMED BY ME IN ACCORDANCE WITH THE SPECIFICATIONS ON THIS PLAN. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS OF THE POND BY STATE AND LOCAL AGENCIES.
 Signature: *Michael J. ...* Date: 7/27/92

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Signature: *John R. Slack* Date: 7/21/92

RIFFRAP OUTLET SEDIMENT TRAP #6
 DRAINAGE AREA - 0.71AC
 STORAGE REQ'D - 16,080 CF
 STORAGE PROVIDED - 17,875 CF
 BOTTOM ELEV. - 272
 CREST ELEV. - 275
 CLEANOUT ELEV. - 275
 CREST WIDTH - 36"
 BOTTOM DIM. - 40'x42"
 SIDE SLOPE - 2:1
 TOP DIM. - 60'x100"
 DEPTH - 6"

RIFFRAP OUTLET SEDIMENT TRAP #4
 DRAINAGE AREA - 1.00AC
 STORAGE REQ'D - 2700 CF
 STORAGE PROVIDED - 2800 CF
 BOTTOM ELEV. - 296
 CREST ELEV. - 300
 CLEANOUT ELEV. - 297.5
 CREST WIDTH - 60.0 FT
 BOTTOM DIM. - 20'x20'x3
 SIDE SLOPE - 2:1

RIFFRAP OUTLET SEDIMENT TRAP #5
 DRAINAGE AREA - 0.74AC
 STORAGE REQ'D - 17,040 CF
 STORAGE PROVIDED - 18,575 CF
 BOTTOM ELEV. - 254
 CREST ELEV. - 257
 CLEANOUT ELEV. - 257
 CREST WIDTH - 36"
 BOTTOM DIM. - 40'x42"
 SIDE SLOPE - 2:1
 TOP DIM. - 60'x100"
 DEPTH - 6"

ISABELLE W. SPROGH
 Liber 1047 Folio 692

HELEN M CHOYCE ET AL
 Liber 585 Folio 055

GERALD J CHOYCE
 Liber 1663 Folio 291

WOODROW STREET
 Ex. 35' R/W (varies)

JEFFREY G FIRMAN
 Liber 1214 Folio 602

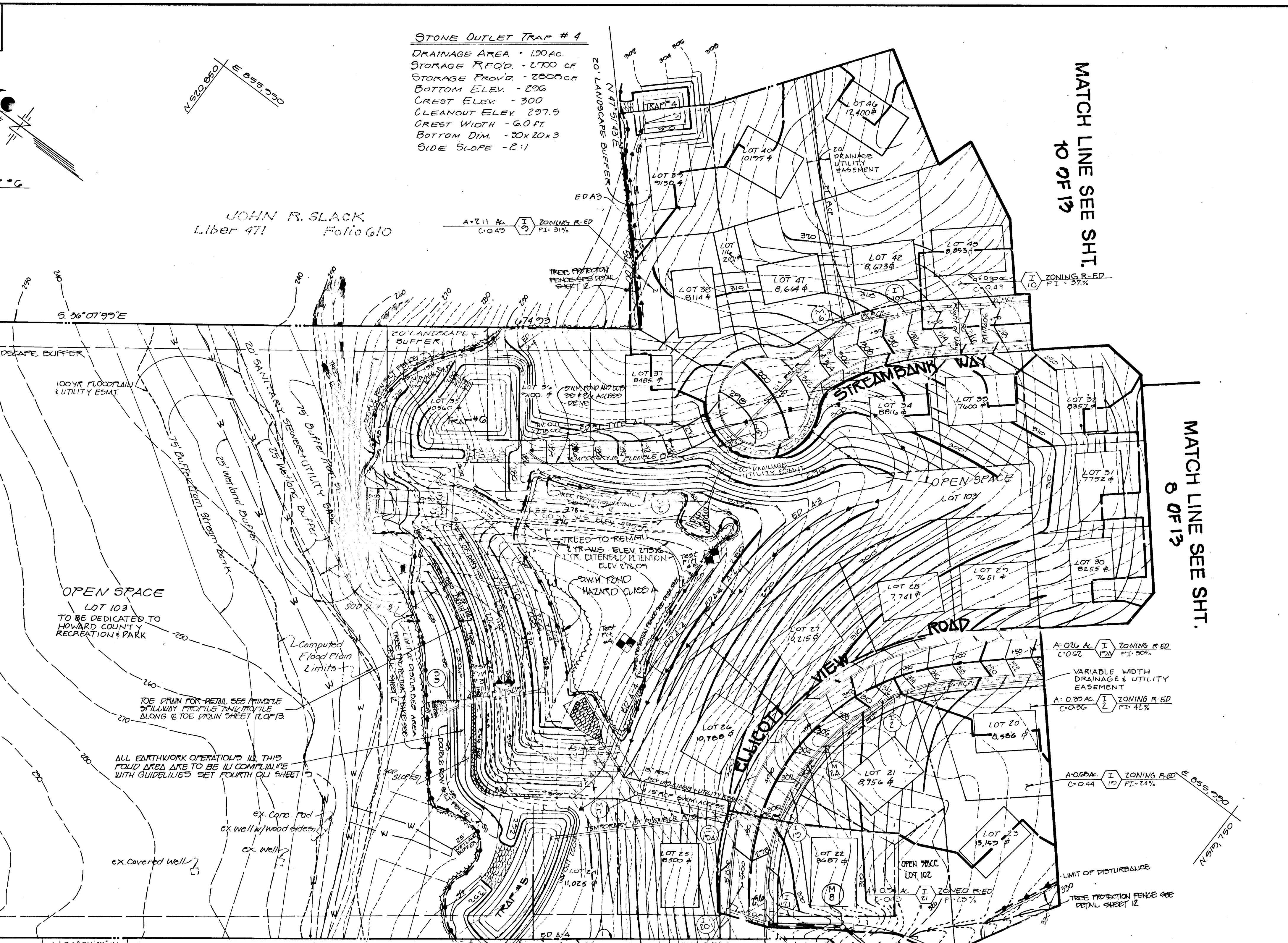
WILLIAM EVERHART
 Liber 844 Folio 084

WILLIAM EVERHART
 Liber 844 Folio 084

WILLIAM EVERHART
 Liber 854 Folio 286

Project Name: Caplan's Property

DATE	DEPTH	SOIL DESCRIPTION	STRA	DEPTH	SCALE	REMARKS
7/21/92	3.0	Brown moist micaceous silty sand with trace clay and rock	3.0	3.0	1:1	Topsoil 3"
7/21/92	3.5	Groundwater coming in from side walls at 3.5'	3.5	3.5	1:1	Groundwater encountered at 3.5'
7/21/92	5.0	Grayish brown moist micaceous silty sand with trace clay and rock	5.0	5.0	1:1	
7/21/92	7.5	Reddish brown moist micaceous sand with trace silt and rock fragments	7.5	7.5	1:1	
7/21/92	10.0	Brown moist micaceous sand and decomposed rock	10.0	10.0	1:1	
7/21/92	11.0	Brown moist micaceous sand with dense decomposed reddish brown rock	11.0	11.0	1:1	
7/21/92	12.4	Bottom of test hole at 12.4'	12.4	12.4	1:1	



Project Name: Caplan's Property

DATE	DEPTH	SOIL DESCRIPTION	STRA	DEPTH	SCALE	REMARKS
7/21/92	3.0	Brown moist micaceous silty sand with trace clay and rock	3.0	3.0	1:1	Topsoil 3"
7/21/92	3.5	Groundwater coming in from side walls at 3.5'	3.5	3.5	1:1	Groundwater encountered at 3.5'
7/21/92	5.0	Grayish brown moist micaceous silty sand with trace clay and rock	5.0	5.0	1:1	
7/21/92	7.5	Reddish brown moist micaceous sand with trace silt and rock fragments	7.5	7.5	1:1	
7/21/92	10.0	Brown moist micaceous sand and decomposed rock	10.0	10.0	1:1	
7/21/92	11.0	Brown moist micaceous sand with dense decomposed reddish brown rock	11.0	11.0	1:1	
7/21/92	12.4	Bottom of test hole at 12.4'	12.4	12.4	1:1	

OWNER/DEVELOPER
 PULTE HOME CORPORATION
 1501 SOUTH EDGEWOOD STREET, SUITE K
 BALTIMORE, MARYLAND 21227

GRADING, SEDIMENT CONTROL, DRAINAGE AREA MAP, STORM DRAIN
 LOTS 1-116
CAPLAN'S PROPERTY
 TAX MAP: 25 PARCELS: 38 & 62 & P.O. 278
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 JULY 14, 1992

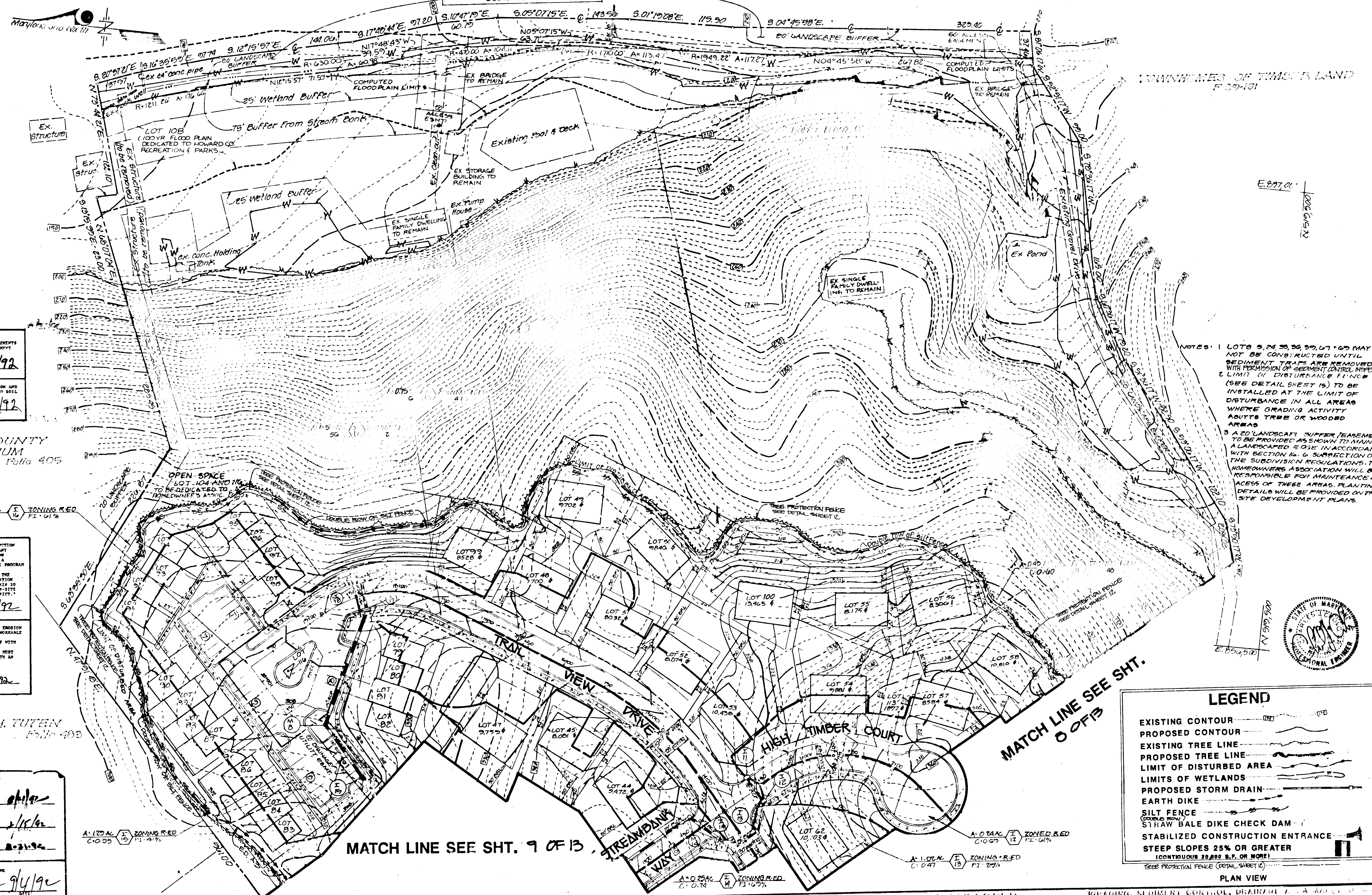
LEGEND
 EXISTING CONTOUR
 PROPOSED CONTOUR
 EXISTING TREE LINE
 PROPOSED TREE LINE
 LIMIT OF DISTURBED AREA
 LIMITS OF WETLANDS
 PROPOSED STORM DRAIN
 EARTH DIKE
 SILT FENCE
 STRAW BALE DIKE CHECK DAM
 STABILIZED CONSTRUCTION ENTRANCE
 STEEP SLOPES 25% OR GREATER
 (CONTINUOUS 20.000 S.F. OR MORE)
 100 YR. FLOODPLAIN & UTILITY EASEMENT
 TREE PROTECTION FENCE (SEE DETAIL SHEET 12)

SCALE: 1" = 50'
 CONTRACT NO. FILE NO. SHEET 7 OF 13

ASBUILT 2-5-97 F30-155

NEW CUT ROAD

NOTE: AREA FOR ROADWAY TO BE DEDICATED TO PUBLIC USE



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

Jane M. Nelson 8/7/92
SOIL CONSERVATION DISTRICT DISTRICT

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

John W. Anderson 9/7/92
HOWARD SOIL CONSERVATION DISTRICT DISTRICT

HOWARD COUNTY
SANITARIUM
Liber 887 Folio 405

A: 0.85% ZONING R.E.D. P1-01%
C: 0.57%

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT.

I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO WILL PROVIDE PERIODIC "AS-BUILT" INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Michael J. ... 7/22/92
SIGNATURE OF DEVELOPER

I HEREBY CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL IS PREPARED BY A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

William H. Tuten 7/27/92
SIGNATURE

WILLIAM H. TUTEN
Liber 187 Folio 403

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief Engineer 8/1/92
CHIEF ENGINEER

Chief Surveyor 2/15/92
CHIEF SURVEYOR

Chief Engineer 8/21/92
CHIEF ENGINEER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Planning Director 9/4/92
PLANNING

NOTES: 1. LOTS 5, 24, 35, 36, 39, 47 & 49 MAY NOT BE CONSTRUCTED UNTIL SEDIMENT TRAPS ARE REMOVED WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR.

2. LIMIT OF DISTURBANCE FENCE (SEE DETAIL SHEET 15) TO BE INSTALLED AT THE LIMIT OF DISTURBANCE IN ALL AREAS WHERE GRADING ACTIVITY AFFECTS TREE OR WOODED AREAS.

3. A 20' LANDSCAPE BUFFER/EASEMENT TO BE PROVIDED AS SHOWN TO MAINTAIN A LANDSCAPED EDGE IN ACCORDANCE WITH SECTION 16.6 SUBSECTION OF THE SUBDIVISION REGULATIONS. THE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR MAINTENANCE AND ACCESS OF THESE AREAS. PLANTING DETAILS WILL BE PROVIDED ON THE SITE DEVELOPMENT PLANS.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBED AREA
- LIMITS OF WETLANDS
- PROPOSED STORM DRAIN
- EARTH DIKE
- SILT FENCE
- STRAW BALE DIKE CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE
- STEEP SLOPES 25% OR GREATER (CONTINUOUS 25.0% R.F. OR MORE)
- TREE PROTECTION FENCE (DETAIL SHEET 12)

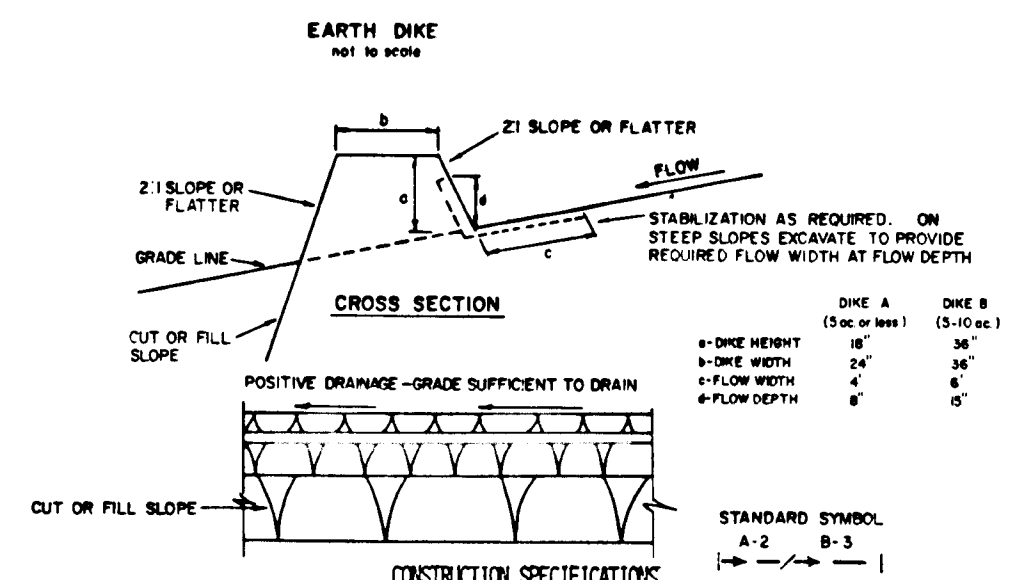
PLAN VIEW

REVISIONS		
DESIGNED	DATE	DESCRIPTION

OWNER/DEVELOPER
MULTE HOME CORPORATION
1501 SOUTH EDGEWOOD STREET, SUITE 14
BALTIMORE, MARYLAND 21227

GRADING, SEDIMENT CONTROL, DRAINAGE
LOTS 1-116
CAPLAN'S PROPERTY
TAX MAP: 25 PARCELS: 38 & 62 & P.O. 78
2ND ELECTION DISTRICT
HOWARD COUNTY MARYLAND
JULY 14, 1992

1603



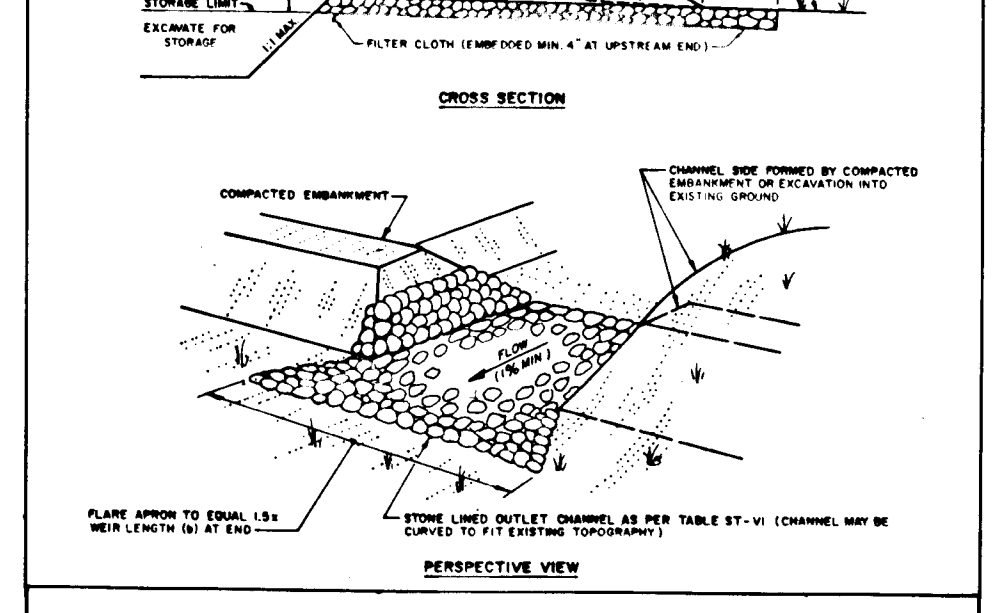
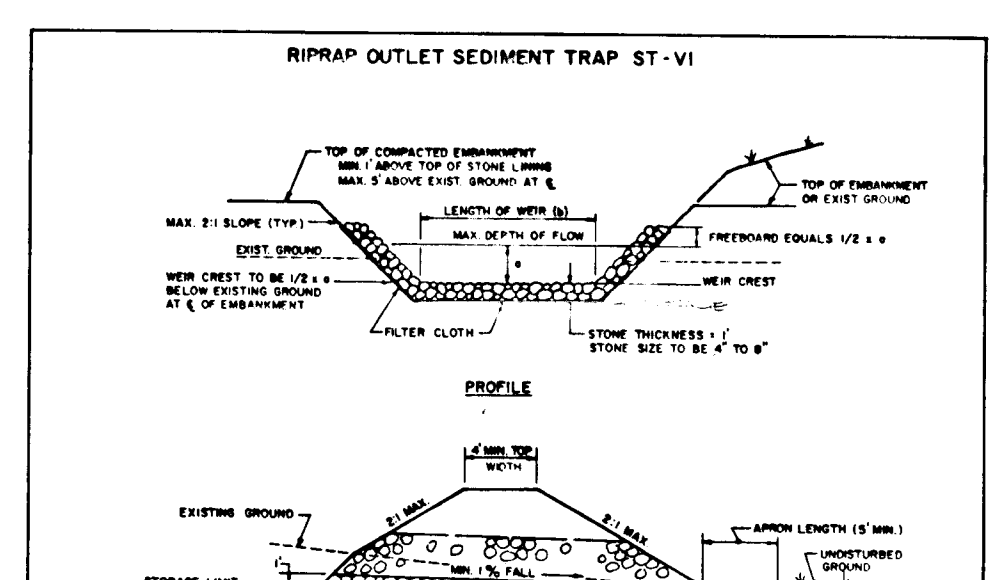
CONSTRUCTION SPECIFICATIONS

- All dikes shall be constructed by earthmoving equipment.
- Dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Field location should be adjusted as needed to utilize a stabilized safe outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be: (a) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (b) flow channel as per the chart below.

FLOW CHANNEL STABILIZATION

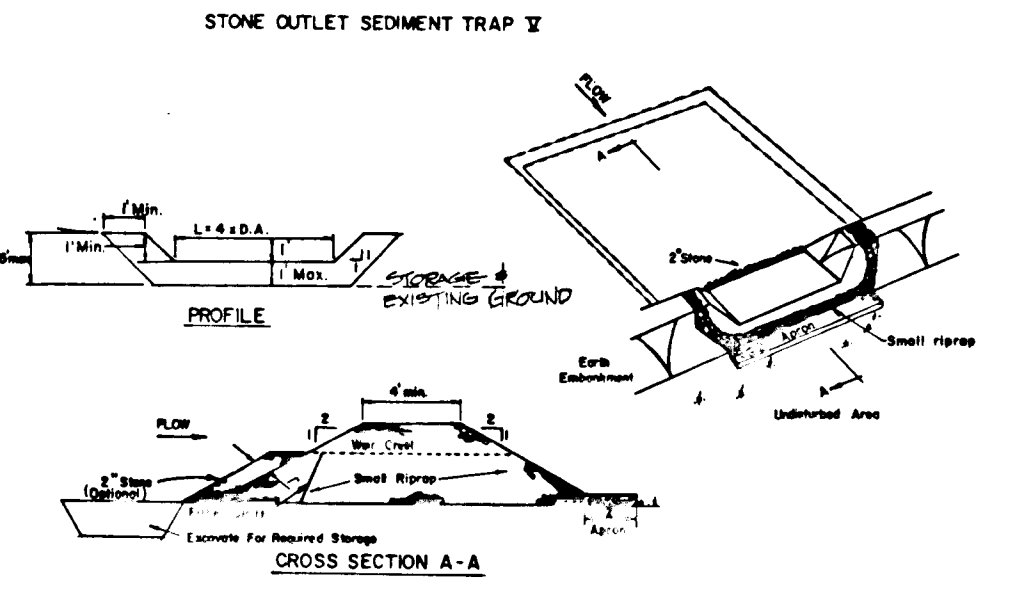
TYPE OF TREATMENT	CHANNEL	DIKE A	DIKE B
1	5-3.0E	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0E	SEED USING JUTE, OR EXCELLENT SOIL	SEED USING JUTE, OR EXCELLENT SOIL
3	5.1-8.0E	SEED WITH JUTE, OR SOIL	LINED RIP-RAP 4-8"
4	8.1-20E	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PLACED IN THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone on a one (1) foot thick layer of two (2) inch rip aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.



CONSTRUCTION SPECIFICATIONS FOR ST-V

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small riprap 4-8" along with a 1" thickness of 2" aggregate placed on the up-grade side of the small riprap 2" embedded filter cloth in the riprap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

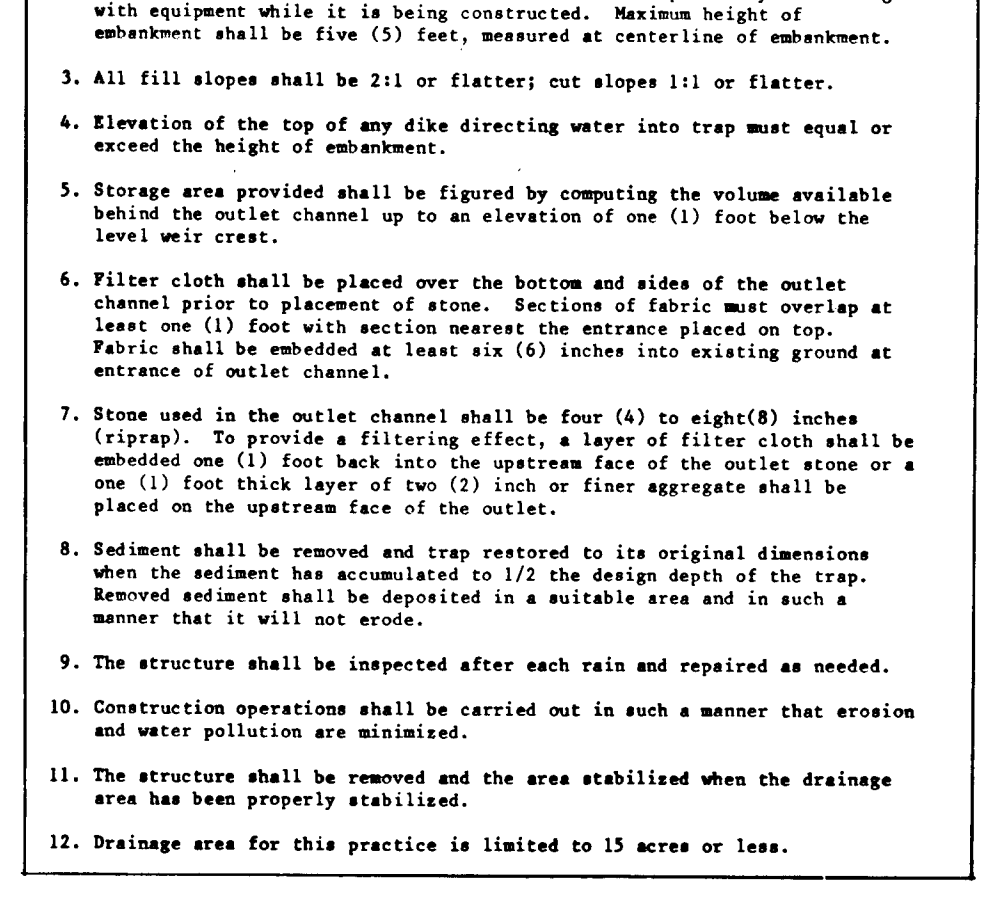
OPTION: A one foot layer of 3" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
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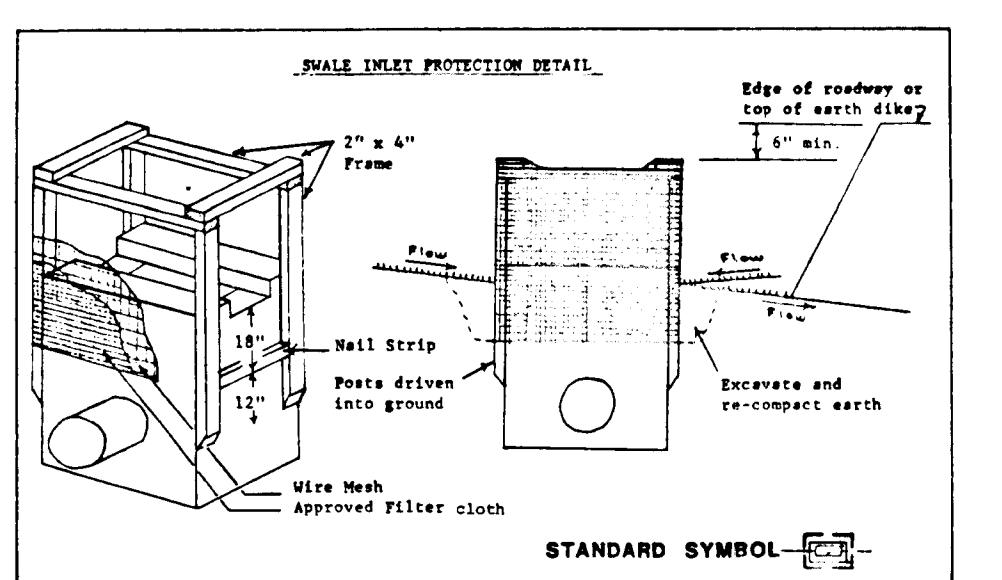
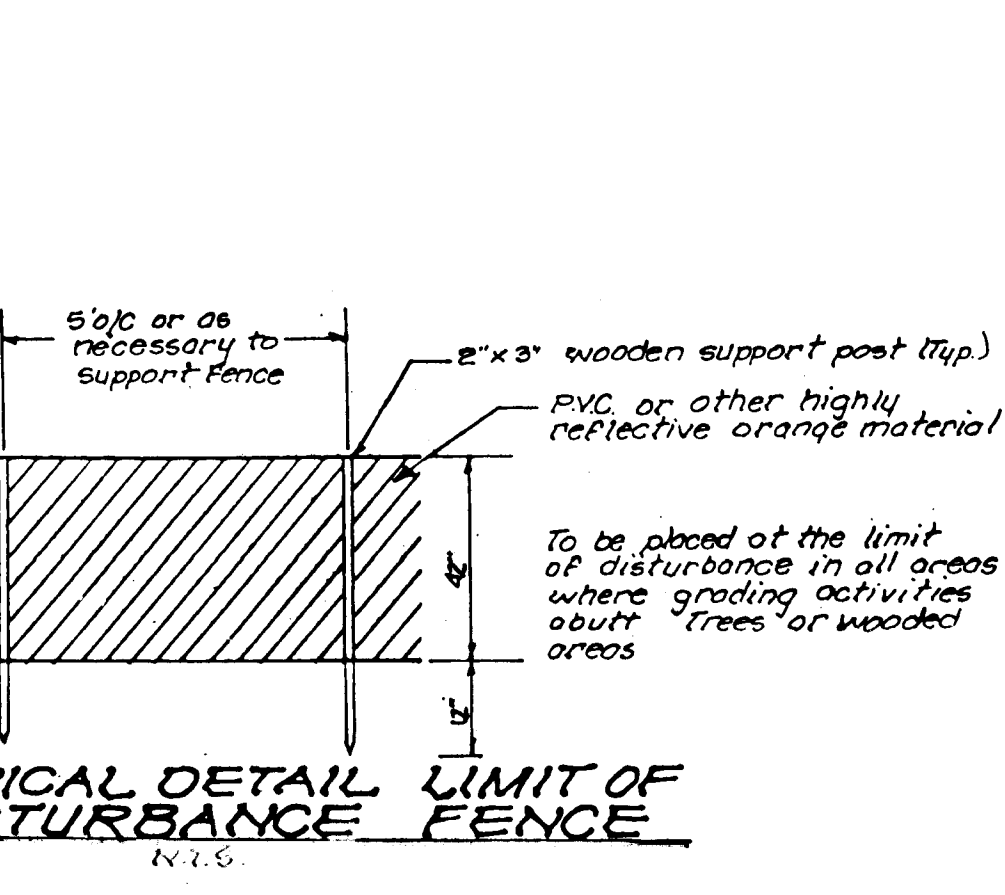
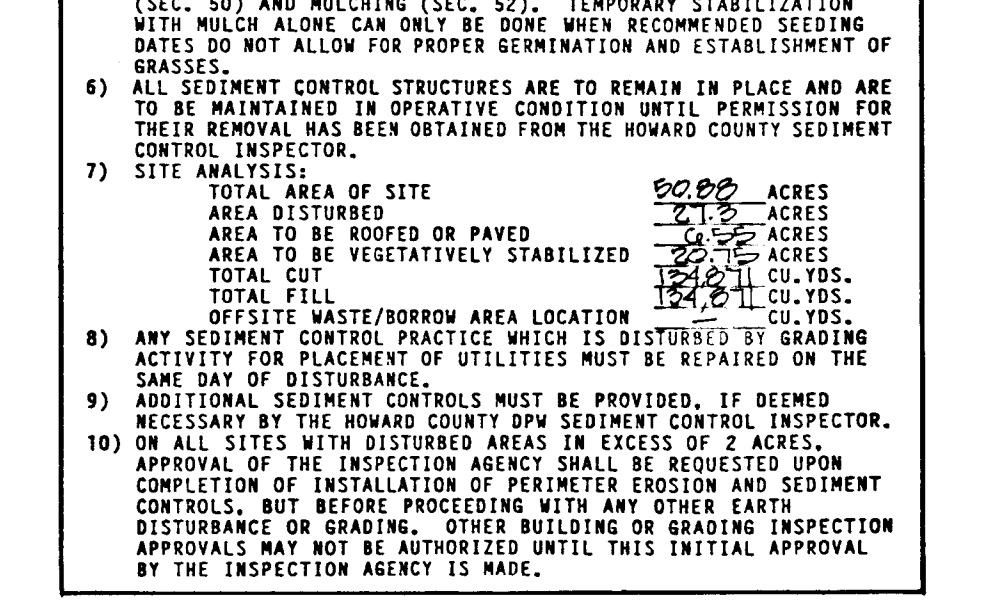
Maximum Drainage Area: 5 Acres

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PLAN.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM.
 - INSTALL ALL BARTH DIKES WITH TEMPORARY SEEDING, SOO OR RIP-RAP AS SPECIFIED, SILT FENCES, SEDIMENT TRAPS AND TEMPORARY SWALES.
 - UPON SEDIMENT CONTROL INSPECTORS APPROVAL, CLEAR, GRUB AND ROUGH GRADE ENTIRE SITE. REMOVE BARTH DIKE # 1 AND MAINPAIN BARTH DIKE BEHIND LOTS 26, 27 AND 28 AT THE END OF EACH WORKING DAY (SHEET 111).
 - STABILIZE ALL DISTURBED AREAS.
 - DURING CONSTRUCTION OF THIS SITE, SEDIMENT SHALL BE REMOVED FROM THE TRAPS WHEN THE CLEANOUT ELEVATIONS HAVE BEEN REACHED. ALSO, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AFTER EACH RAINFALL.
 - CONSTRUCT HOUSES-AND DRIVEWAYS AND FINE GRADE ALL LOTS, EXCEPT LOTS 5, 24, 35, 36, 39, 67 AND 69. PERFORM FINAL STABILIZATION ON ALL DEVELOPED LOTS AND DISTURBED AREAS.
 - UPON FINAL STABILIZATION OF SITE CONTRACTOR SHALL REMOVE BARTH DIKES, SILT FENCE (EXCEPT BEHIND LOTS 24, 35, 39, 67 AND 69) AND SEDIMENT TRAPS. CONTRACTOR SHALL REMOVE THE TEMPORARY STORM DRAIN PIPE THAT OUTFALLS INTO TRAPS 45 AND 6 AND INSTALL PERMANENT STORM DRAIN OUTFALL.
 - INSTALL SILT FENCE ON LOT 5. CONSTRUCT HOUSES ON LOTS 5, 24, 35, 36, 39, 67 AND 69, DRIVEWAYS AND FINE GRADE LOTS.
 - ALL AREAS DISTURBED DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED WITH PERMANENT SEEDING MIXTURE.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL DEVICES, DIKES, SWALES, AND ALL SLOPES GREATER THAN 3:1.
 - FOURTEEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS.



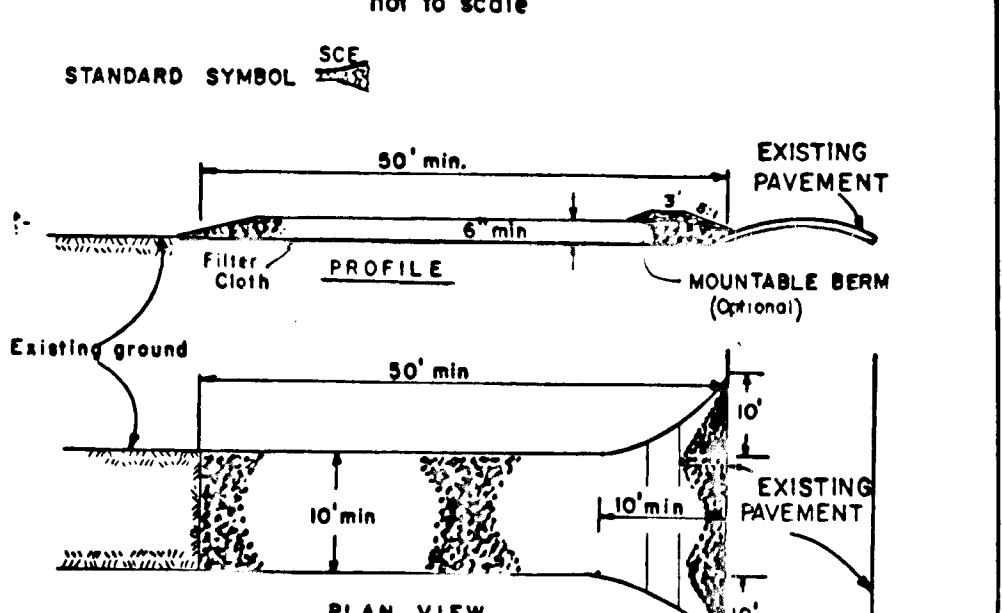
CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
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- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone on a one (1) foot thick layer of two (2) inch rip aggregate shall be placed on the upstream face of the outlet.
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- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.



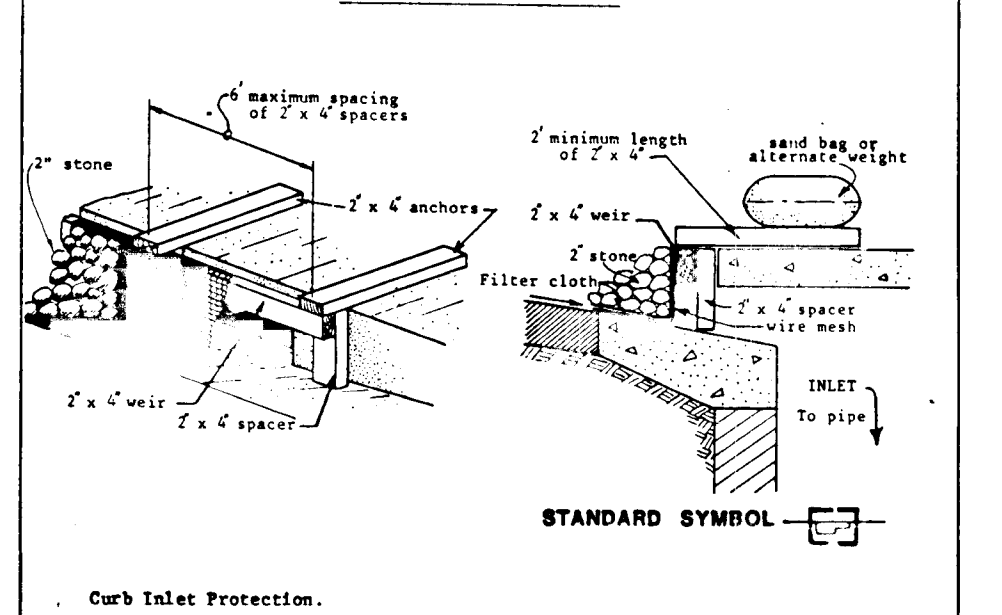
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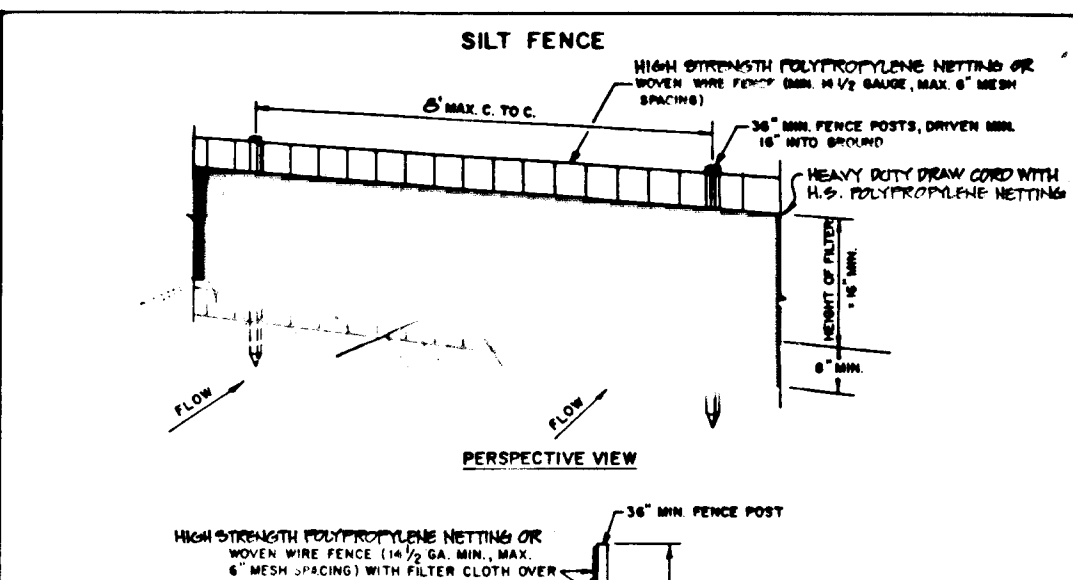
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- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
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- Drainage area for this practice is limited to 15 acres or less.



CONSTRUCTION NOTES FOR FABRICATED SILTY FENCE

- High strength polypropylene netting or woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 2' at top and mid section.
- When two sections of filter cloth meet, the sections shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when holes develop in the silt fence.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING OPTIONS:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SO. FT.) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SO. FT.) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER 300-sq-ft. AREAS OF FERTILIZER (9 LBS/1000 SO. FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SO. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SO. FT.) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS. PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE; FOR 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 LOVERGARD; 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 SOO; OPTION (3) SEED WITH 80 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 UNROTATED 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 GAL. 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 SUBJECT TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.); FOR PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEeping LOVERGARD; (4.0 LBS/1000 SQ. FT.); FOR 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 SOO.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTATED 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.

TRAP NOS.	1	2	3	4	5	6
TYPE	STONE	STONE	STONE	STONE	RIP-RAP	RIP-RAP
DRAINAGE AREA	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET
STORAGE REQUIRED	6732	1600	2340	3438	17,046	16,038
STORAGE PROVIDED	6774	4410	2376	3624	18,575	17,825
BOTTOM ELEVATION	327.0	329.0	247	297.0	254.00	272.00
CLANOUT ELEVATION	328.5	330.5	248.5	298.5	257.00	275.00
CRKST ELEVATION	330.0					

I. SITE PREPARATION

Areas under the subbasement and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The subbasement shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the subbasement shall be increased at least 10 percent above the design elevation (including free-board) unless otherwise shown on the plans. All fill materials shall be C-1, C-2, C-3, or C-4, as approved by Soils Engineer.

III. 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 contiguous over the entire length of the fill. The most porous borrow material shall be placed in the down-stream portions of the subbasement.

Core Trench

Where specified, a core trench shall be excavated along or parallel to the centerline of the subbasement, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being 4 feet. The depth shall be at least 4 feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be compacted either by equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. C-1, C-2, C-3, or C-4 materials only shall be used in the core trench as approved by Soils Engineer.

IV. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4 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 4 feet to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a structure or pipe unless there is a compacted fill of 2 feet or greater over the structure or pipe.

V. PIPE CONDUITS

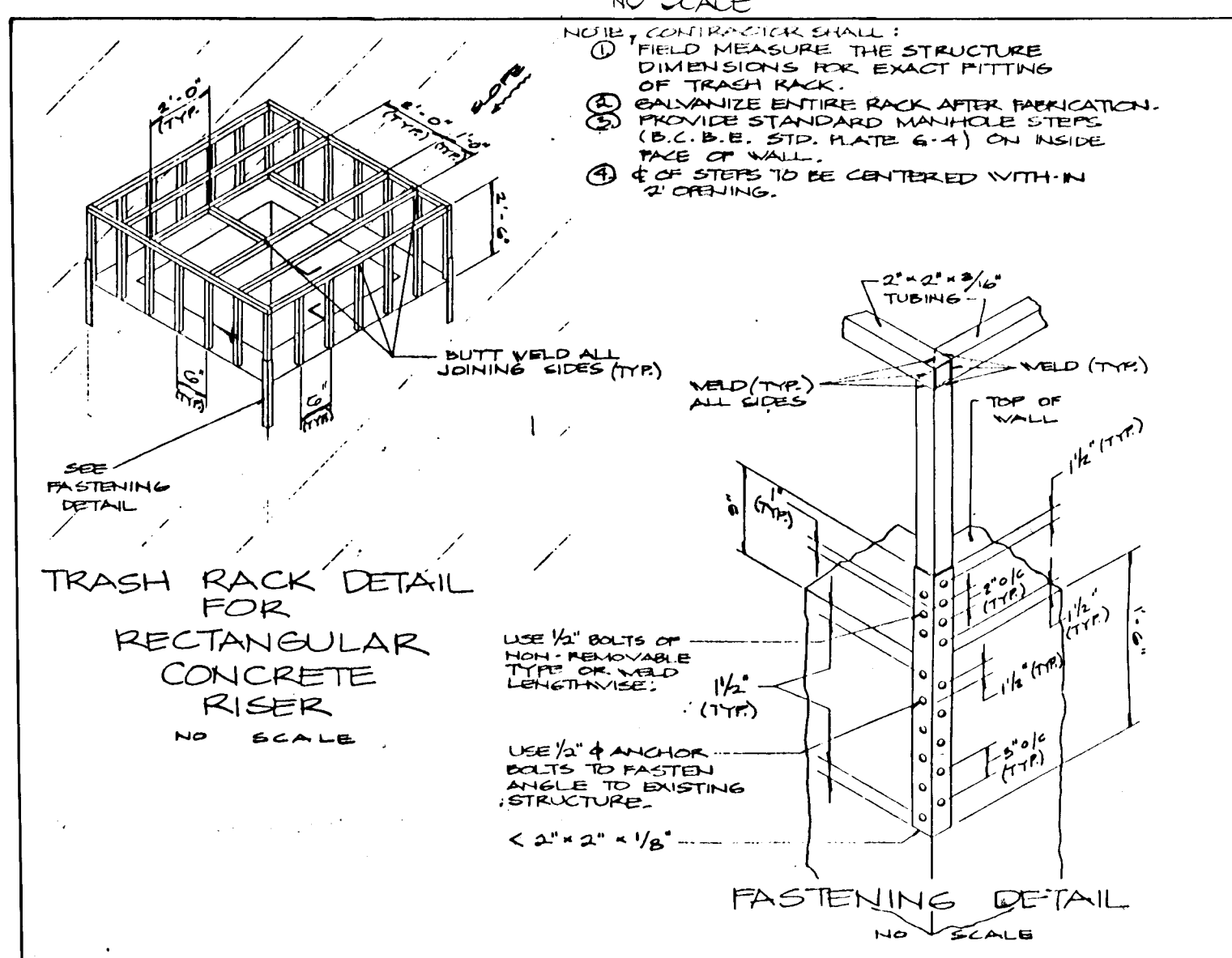
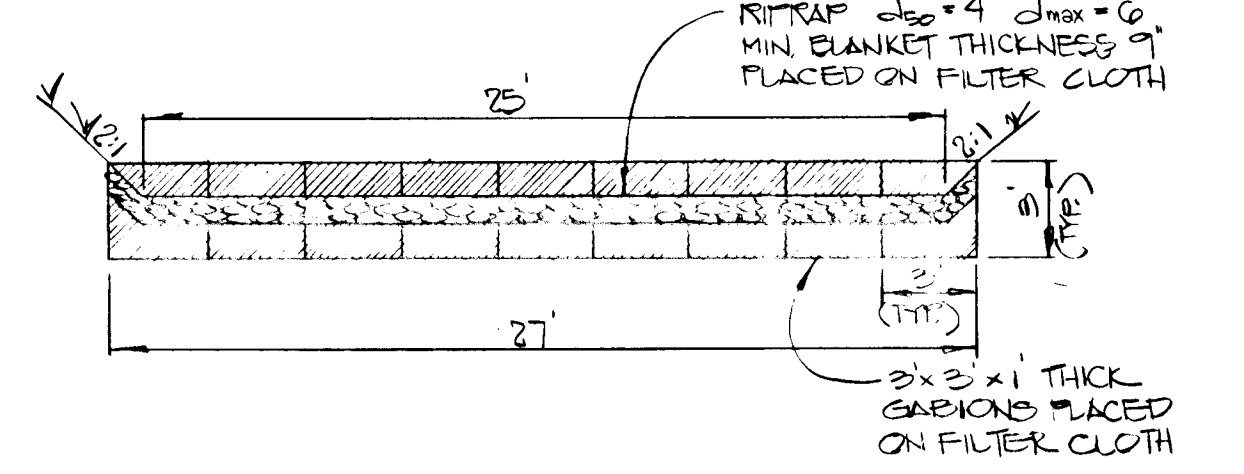
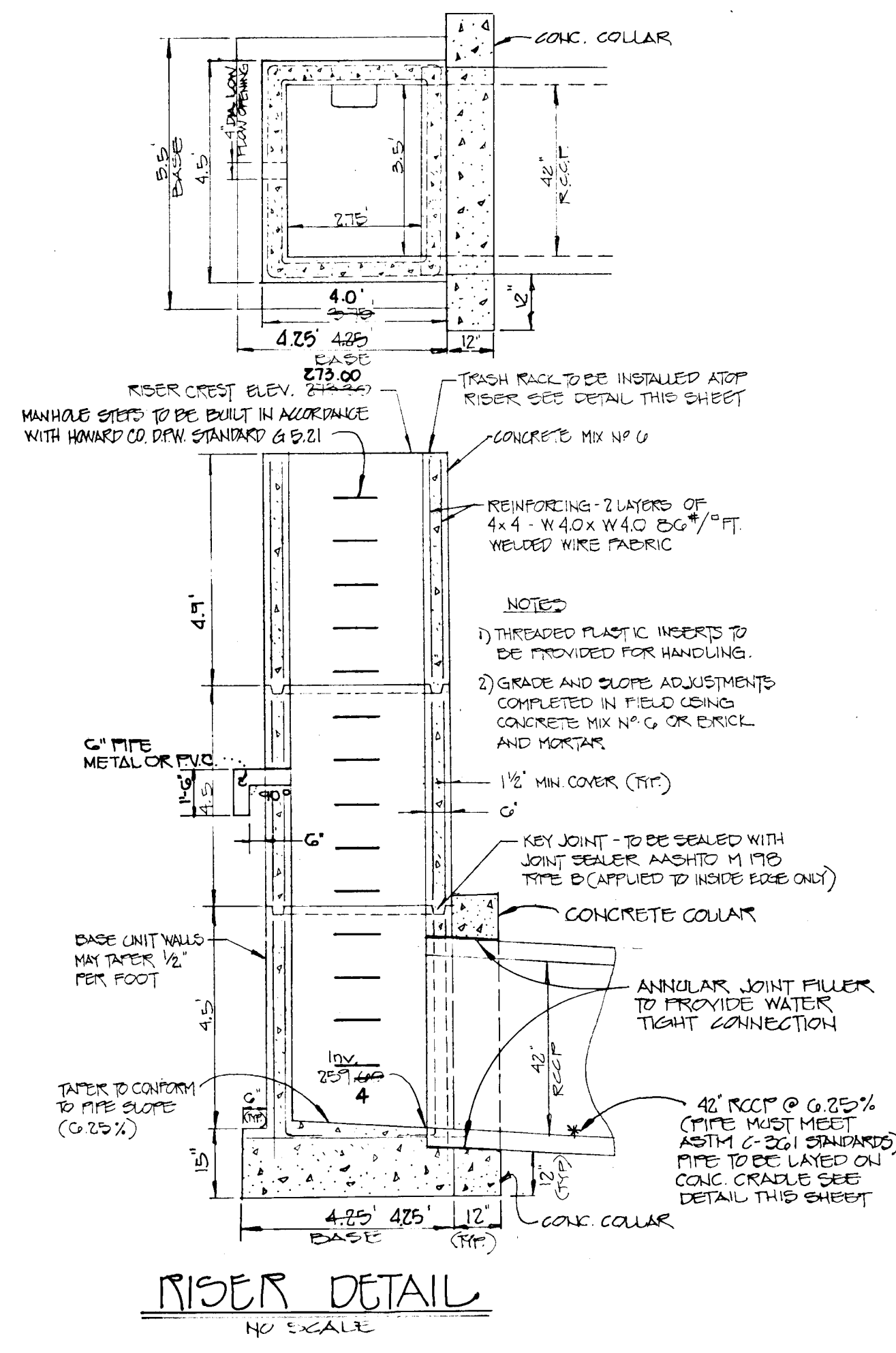
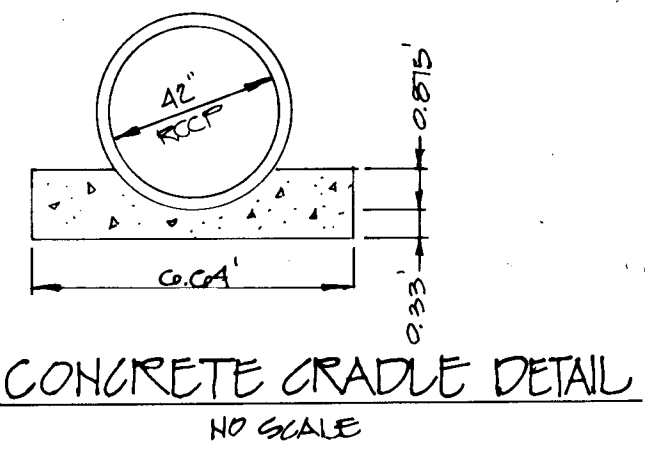
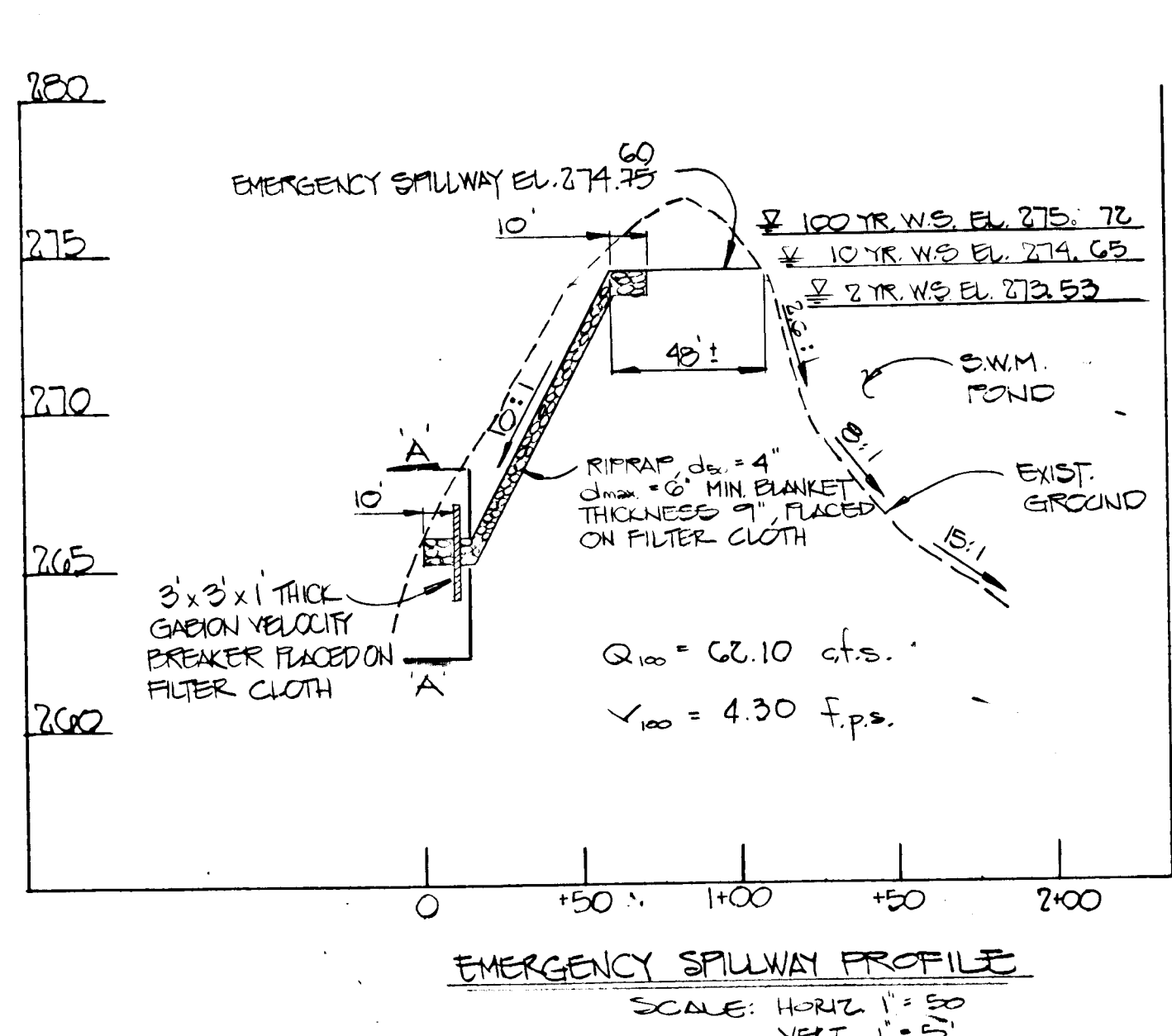
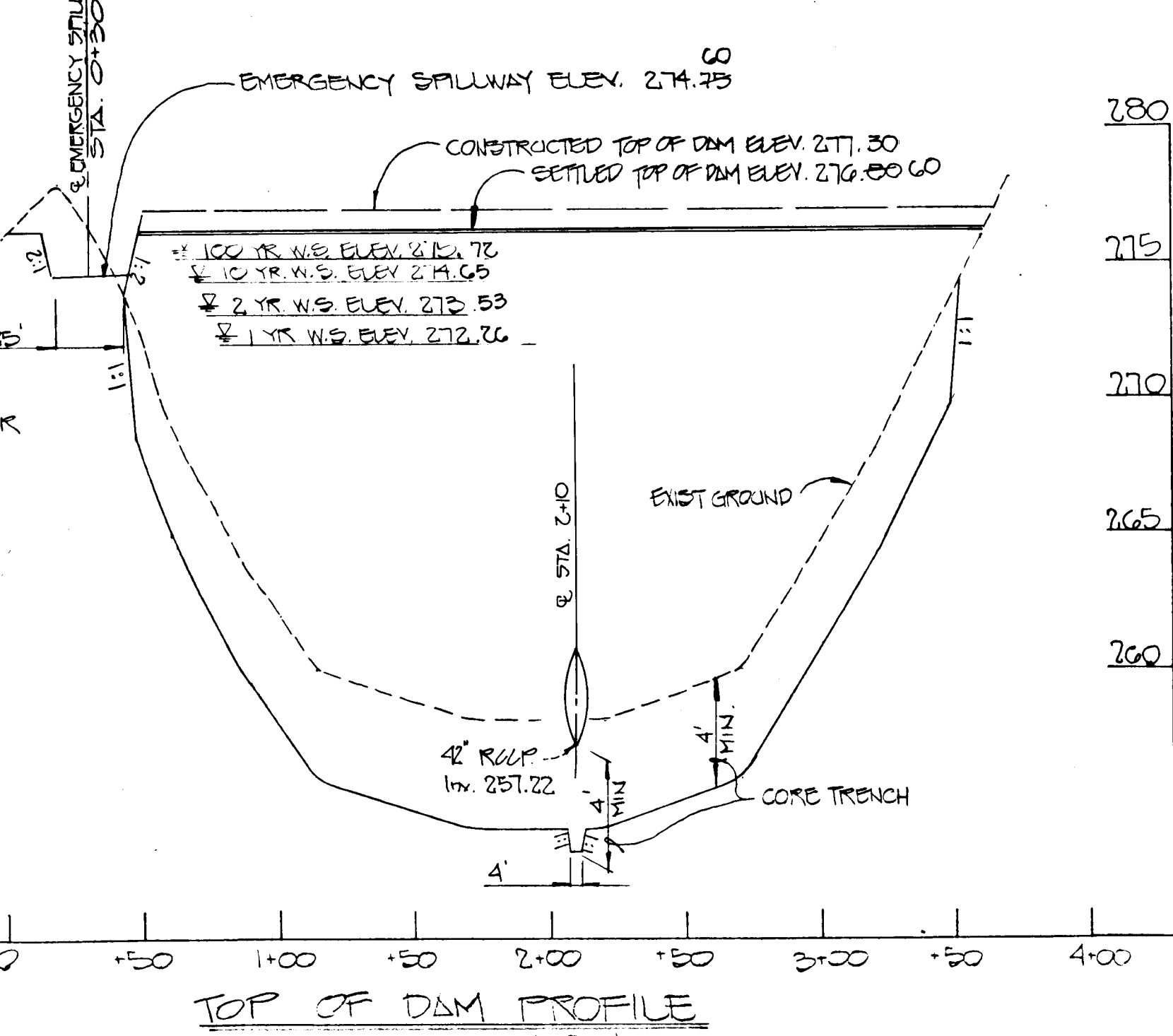
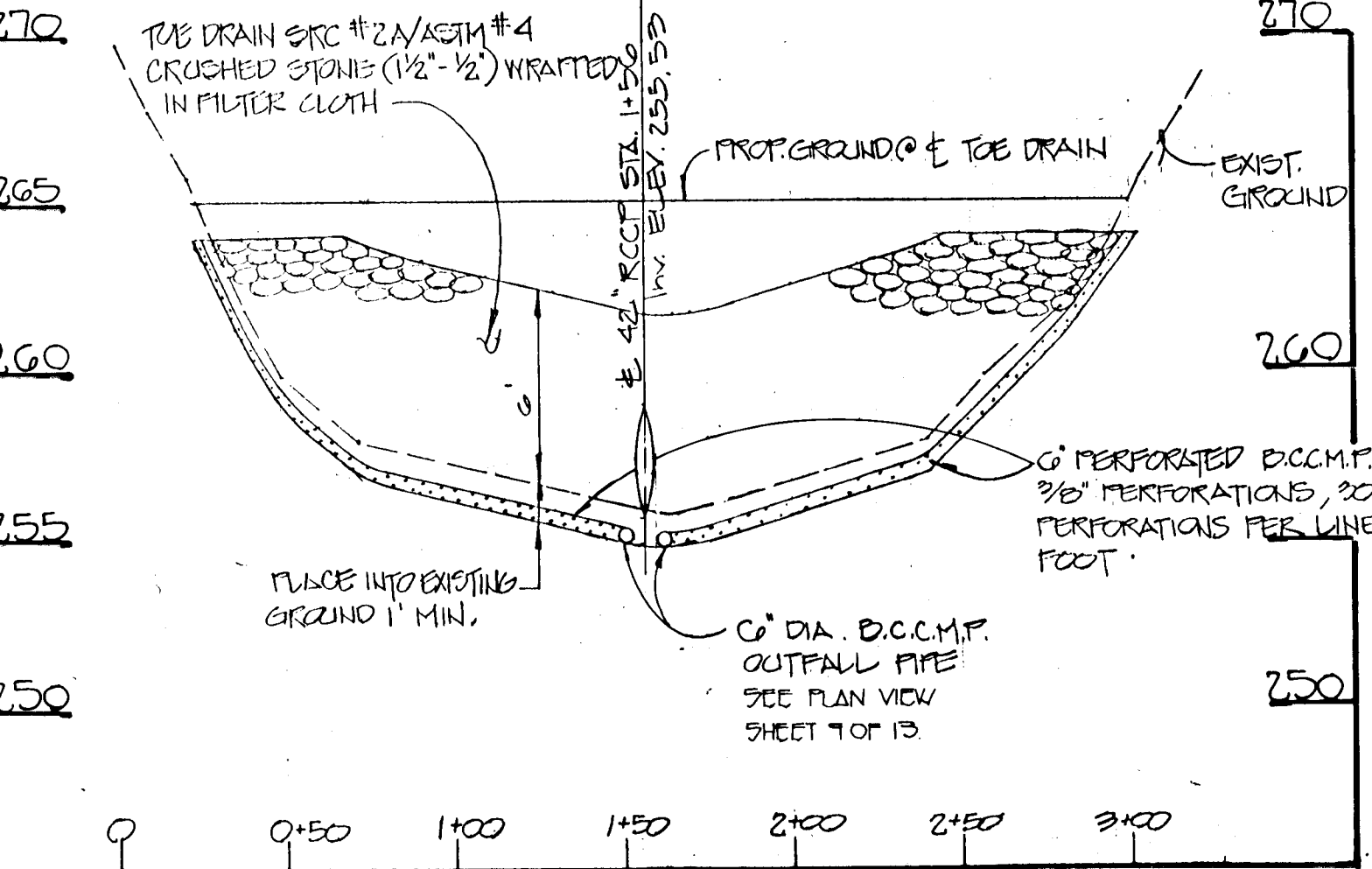
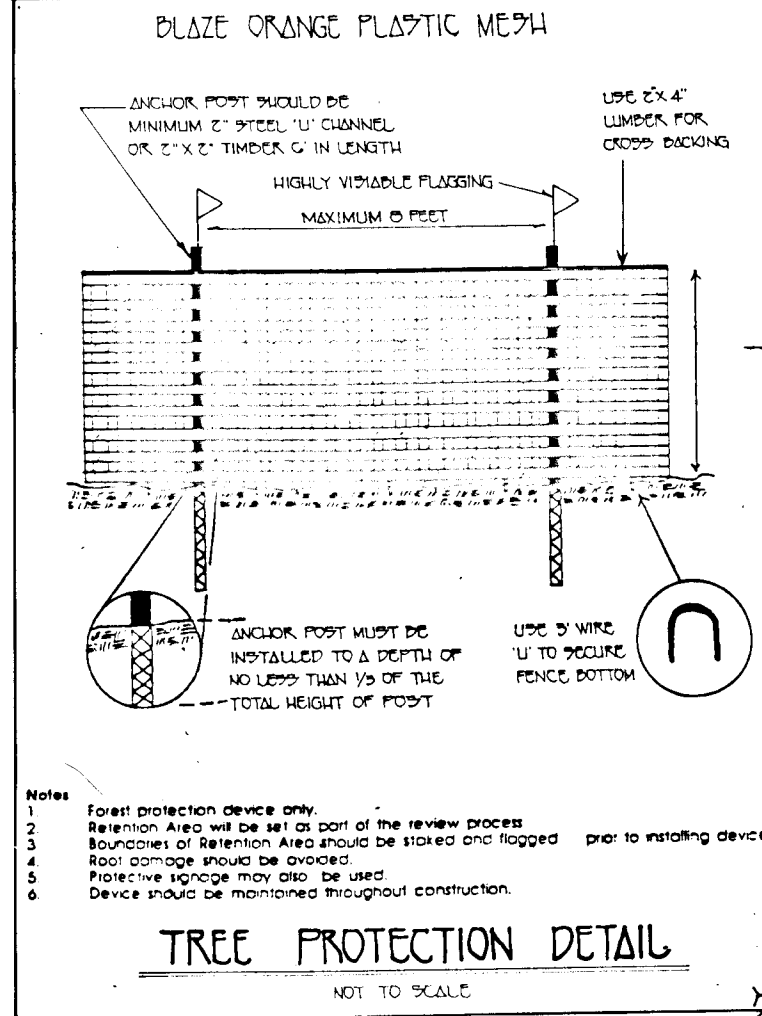
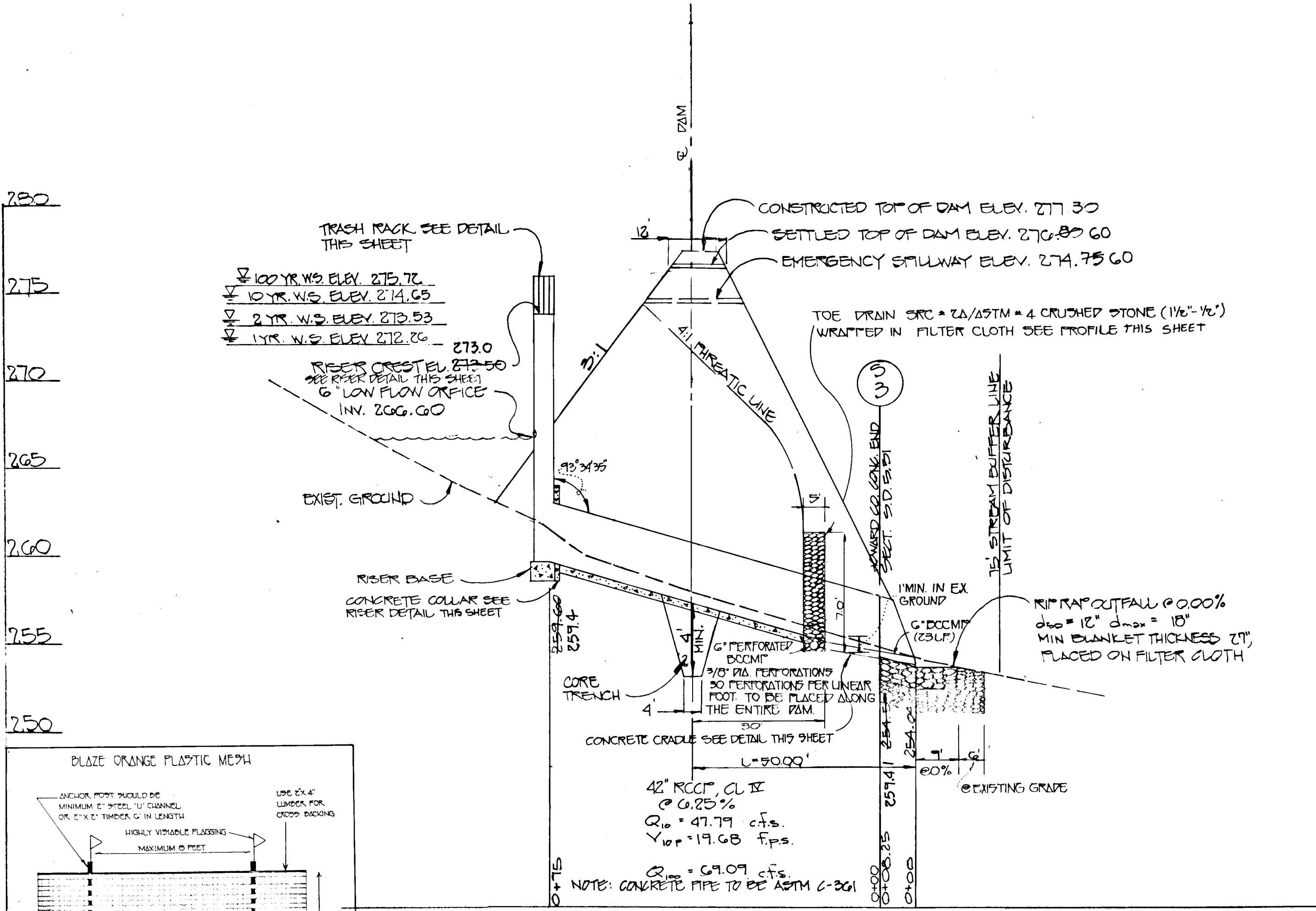
- Reinforced Concrete Pipe**
1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-301. An approved equivalent is AWA Specification C-301.
2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3", or as shown on the drawings.
3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are made for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.
4. Backfilling shall conform to structural backfill as shown above.
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- For pipes of other materials, specific specifications shall be shown on the drawings.

VI. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VII. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the subbasement, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after final grading.
Fertilizer: 10-10-10 @ 1.5 lbs./1000 sq.ft.
Seed: Crownvetch inoculated @ 0.5 lbs./1000 sq.ft.
Mulch: "K"-31 Tall Fescue @ 1.0 lbs./1000 sq.ft.
Straw @ 80 lbs./1000 sq.ft.
Asphalt Tie-down: Slopes @ 8 gal./1000 sq.ft.
Flat areas @ 5 gal./1000 sq.ft.



STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
Signature of Developer: [Signature] DATE: 7/27/92

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
Signature of Engineer: [Signature] DATE: 7/27/92

THREE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
Approved: [Signature] DATE: 9/7/92
Chief, SOIL CONSERVATION DIVISION

THREE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Approved: [Signature] DATE: 8/7/92
Chief, SOIL CONSERVATION DIVISION

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 9/4/92
Chief, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 8-31-92
Chief, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 8/15/92
Chief, BUREAU OF HIGHWAYS

POND CONSTRUCTION CERTIFICATION
I CERTIFY THAT UPON COMPLETION OF CONSTRUCTION I WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE (O&M) OF THE SMALL POND. O&M WILL BE PERFORMED BY ME IN ACCORDANCE WITH THE SPECIFICATIONS OF THIS PLAN. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS OF THE POND BY STATE AND LOCAL AGENCIES.
Signature of Developer: [Signature] DATE: 7/21/92

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 8/1/92
Chief, LAND DEVELOPMENT DIVISION

FITCHER, COLLINS & CARTER, INC.
LEVEL ENGINEERING CONSULTANTS - LAND SURVEYORS
717 BALTIC NATIONAL PIKE, SUITE 100
ELLICOTT CITY, MARYLAND 21046
TELEPHONE: (410) 461-0200
FAX: (410) 750-7284

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

OWNER/DEVELOPER
FULTS HOME CORPORATION
1901 SOUTH EDGEWOOD STREET, SUITE K
BALTIMORE, MARYLAND 21227

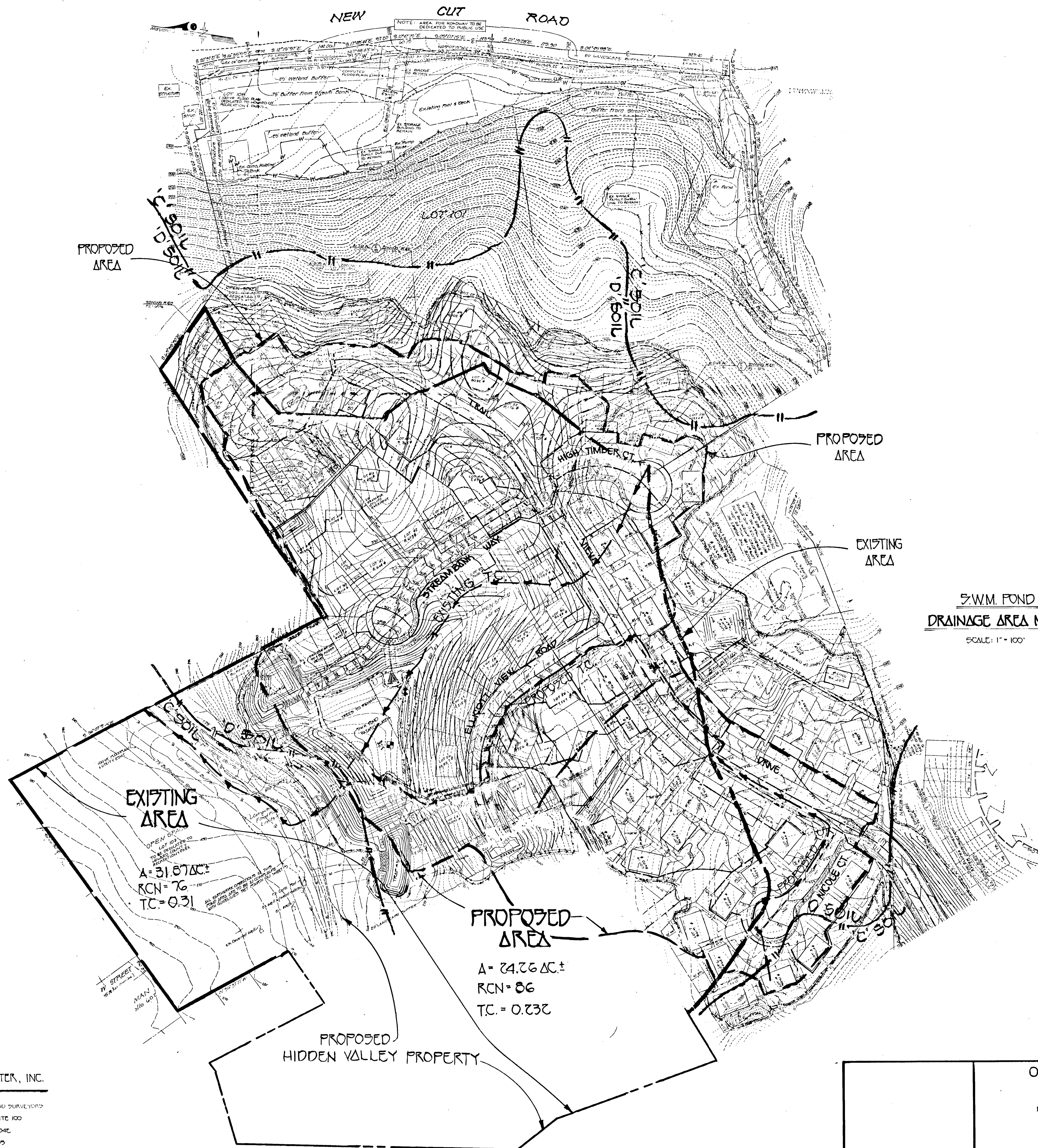
STORM WATER MANAGEMENT PROFILES AND DETAILS
CAPLAN'S PROPERTY
TAX MAP 25 PARCELS 38 & 62 & P.O. 278
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
JULY 13, 1992

APPROVED DEPARTMENT OF PUBLIC WORKS
Alvin J. Taylor 9/15/92
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
Charles W. Williams 9/15/92
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
William E. Ray 9-21-92
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED DEPT. OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



S.W.M. FOND
 DRAINAGE AREA MAP
 SCALE: 1" = 100'



1603

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING, SURVEYING & LAND SURVEYORS
 7171 BALTIMORE NATIONAL PIKE, SUITE 100
 ELLICOTT CITY, MARYLAND 21042
 TELEPHONE: (410) 461-0225
 FAX: (410) 750-9704

OWNER/DEVELOPER
 FULTE HOME CORPORATION
 1901 SOUTH EDGEWOOD STREET, SUITE 104
 BALTIMORE, MARYLAND 21227

DRAINAGE AREA MAP
 LOTS 1-116
CAPLAN'S PROPERTY
 TAX MAP: 25 PARCELS: 38 & 62 & P.O. 278
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 JULY 14, 1992

SCALE: 1" = 100' CONTRACT NO. FILE NO. SHEET 13 OF 13