

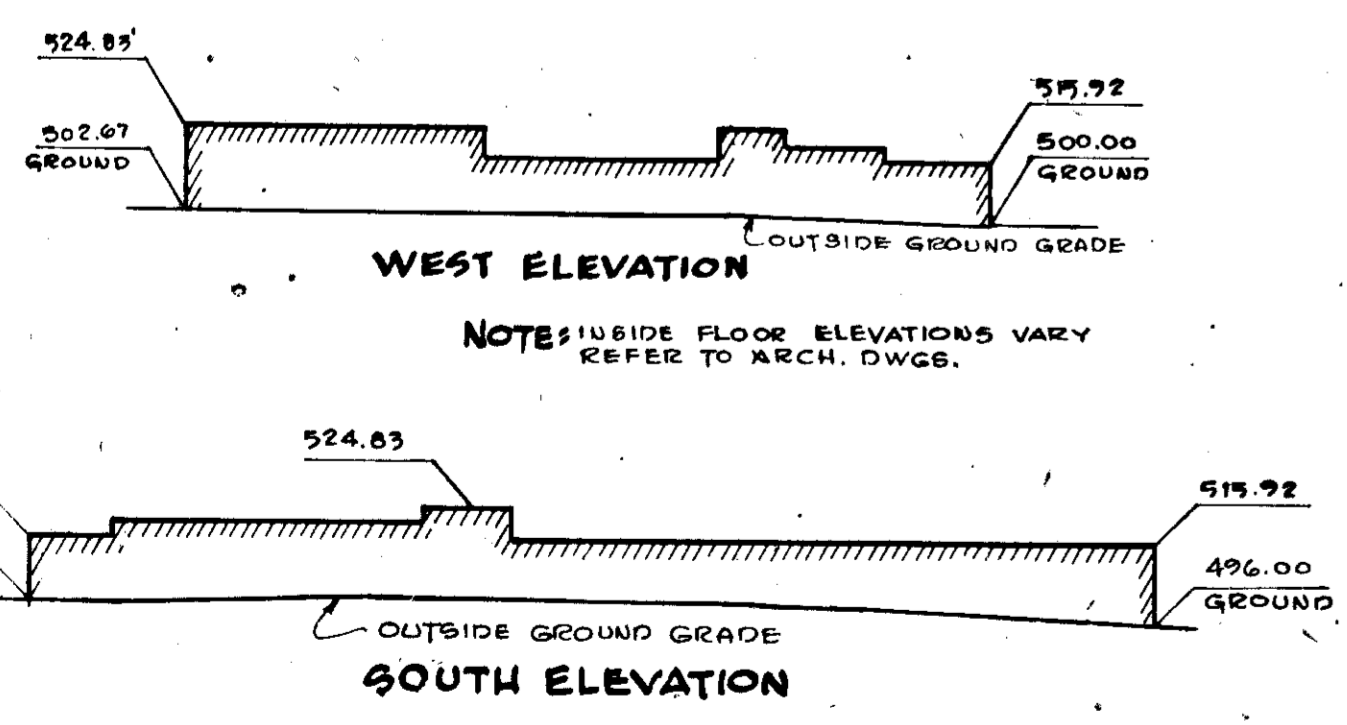
VICINITY MAP
NO SCALE

- COMPLETE SET OF SITE DEVELOPMENT DRAWINGS:
- G-0 COVER SHEET 1 OF 8
 - G-1 LAYOUT PLAN 2 OF 8
 - G-2 GRADING AND SEDIMENT CONTROL PLAN 3 OF 8
 - G-3 STORM SEWERS PROFILES 4 OF 8
 - G-4 STORM SEWER PROFILES 5 OF 8
 - G-5 DETAILS 6 OF 8
 - G-6 DETAILS AND ROUTE #144 ROAD PROFILE TOP
- COMPLETE LIST OF SUPPORTING DRAWINGS:
- 10-1 DRAINAGE DIVIDES 8 OF 8
 - 16 PAGES OF STORM DRAINAGE COMPUTATION

SITE INFORMATION

OWNER: BOARD OF EDUCATION
 117 F. 37, CLARKSVILLE, MD.
 LOCATION: MD. RTE. 144
 ELECTION DISTRICT: 3 RD
 TAX MAP: 19
 PARCEL NO.: R-40
 ZONING: R-40
 PROPERTY RECORDED: LIBER 784 FOLIO 486
 AREA OF PROPERTY: 17.05 AC
 AREA OF BUILDING: 111 AC
 AREA SODDED: 1.00 AC
 AREA SEEDING: 9.82 AC
 AREA UNDISTURBED: 2.96 AC

NUMBER OF PARKING SPACES REQUIRED: 50
 NUMBER OF PARKING SPACES PROVIDED: 50
 ALL DRIVEWAYS AND PARKING FACILITIES ARE PRIVATE



BUILDING ELEVATIONS
SCALE: 1" = 5'

GENERAL NOTES

1. FOR BUILDING DIMENSIONS AND ADDITIONAL DETAILS REFER TO ARCHITECTURAL DRAWINGS.
2. FOR SANITARY SEWER, WATER, AND ROOF DRAINS, REFER TO MECHANICAL PLANS.
3. FOR ALL ELECTRICAL WORK REFER TO ELECTRICAL PLANS.
4. ALL DISTURBED, UNPAVED AREAS TO BE TOPSOILED, FERTILIZED, LIMED, SEEDED AND MULCHED, UNLESS SHOWN SODDED. SLOPES 3 TO 1 AND STEEPER TO BE SODDED.
5. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE, AND APPLICABLE PROVISIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION "SPECIFICATION FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES".
6. ALL EXISTING UTILITIES ARE BASED ON AVAILABLE RECORDS AND WERE FIELD-CHECKED WHERE POSSIBLE. CONTRACTOR MUST DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION AND INVERTS WELL IN ADVANCE OF CONSTRUCTION. IF CLEARANCES ARE NOT AS SHOWN OR IF A CONFLICT IS ANTICIPATED, ARCHITECT SHALL BE NOTIFIED BEFORE PROCEEDING WITH TRENCHING.
7. ALL EXPOSED PORTIONS OF CHANNELS, FRAMES AND GRATES OF STORM DRAINAGE STRUCTURES SHALL RECEIVE TWO COATS OF AN APPROVED PAINT.
8. ALL STRUCTURES HAVING A DEPTH OF 3 FEET OR MORE SHALL HAVE C.I. MANHOLE STEPS, STAGGERED AT 15" O.C.
9. STANDARD CURB AND GUTTER FOR DRIVES AND PARKING AREA ON SITE TO BE HOWARD COUNTY STANDARD 7" COMBINATION CURB AND GUTTER AS SHOWN ON DRAWING D-40, PAGE 95 OF THE COUNTY STANDARDS.
10. CONTACT "MISS UTILITY" AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION.
11. EXISTING TOPOGRAPHY BASED ON SURVEY BY ASSOCIATED ENGINEERS, INC.
12. PITCH GUTTER OF CURBS TO CONFORM TO ADJACENT DRAINAGE PATTERN.
13. REFER TO GRADING PLAN REGARDING CUT AND FILL BALANCE AND ADJUSTMENT OF STORM SEWERS IF NECESSARY.
14. PREFIX OF 4 OR 5 MAY HAVE TO BE ADDED TO ALL DESIGN CONTOURS, AND SPOT GRADES.
15. THICKNESS OF TOPSOIL SHALL BE 4 INCHES (COMPACTED).
16. WHERE STORM SEWER PIPES ARE PLACED IN FILL AREAS, THE FILL SHALL BE COMPACTED TO 95% ITS MAXIMUM DENSITY.

CONSTRUCTION SEQUENCE

1. CONSTRUCT CONSTRUCTION ENTRANCE FROM MD. ROUTE 144 ONTO SITE AS SHOWN.
2. CONSTRUCT PERIMETER DIKES AND STONE OUTFALL STRUCTURES. STABILIZE DIKES. CONSTRUCT TRAPS A, B, C, E, F, G.
3. BEGIN DEMOLITION OF SITE. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION AND RENOVATION OF EXISTING BUILDING.
4. GRADE AREA FOR NEW BUILDING CONSTRUCTION.
5. START BUILDING CONSTRUCTION/RENOVATION.
6. ROUGH GRADE REMAINDER OF SITE AND CONSTRUCT DIVERSION DIKES AND STABILIZE DIKES.
7. FINE GRADE AND STABILIZE ALL SLOPES 3:1 OR GREATER.
8. CONSTRUCT ALL STORM DRAINAGE AND BUILD REMAINING TRAPS.
9. CONSTRUCT ALL CURB AND GUTTER AND BASE COURSE BITUMINOUS CONCRETE PAVEMENT.
10. FINE GRADE REMAINDER OF DISTURBED UNPAVED AREAS AND STABILIZE.
11. REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE AREAS.
12. PLACE BITUMINOUS CONCRETE SURFACE COURSE.
13. CLEAN UP SITE AND START MAINTENANCE.

REVIEWED FOR HOWARD COUNTY AND MEETS TECHNICAL REQUIREMENTS
 DATE 11/1/76
 U.S. SOIL CONSERVATION SERVICE

SEDIMENT CONTROL NOTES

1. CONTRACTOR SHALL NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AND THE BUREAU OF INSPECTION, LICENSE AND PERMITS BEFORE STARTING ANY WORK. (PHONE 465-3180)
2. ALL SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED AND STABILIZED IN ACCORDANCE WITH THE APPROVED PLANS. SEDIMENT CONTROL FEATURES MAY BE ADJUSTED IN THE FIELD, HOWEVER, PERMISSION FROM HOWARD S.C.D. AND ARCHITECT MUST BE OBTAINED.
3. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AND FEATURES MUST BE PROVIDED IN ORDER TO INSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED.
4. TEMPORARY BERMS AND DIKES SHALL BE COMPACTED BY SEVERAL PASSES WITH THE CONSTRUCTION EQUIPMENT. BERMS AND DIKES SHALL BE STABILIZED IMMEDIATELY BY USING THE FOLLOWING RATES: 1 TON OF LIME PER ACRE, 500 LBS. OF 10-10-10 FERTILIZER PER ACRE, 1.5 TONS OF MULCH AND 40 LBS. OF RYE GRASS PER ACRE.
5. ALL DIKES MUST HAVE POSITIVE GRADE TO AN OUTLET.
6. FIELD LOCATIONS OF DIKES SHALL BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
7. DIVERTED RUNOFF MUST OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA.
8. ALL DISTURBED UNPAVED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER FINE GRADING BY TOPSOILING, LIMING, FERTILIZING, SEEDING OR SODDING. REFER TO GRADING PLANS FOR LIMIT OF SODDED AREAS.
9. TOPSOIL SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES OF THE MARYLAND STATE HIGHWAY ADMINISTRATION.
10. A. TOPSOIL SHALL BE 4 INCHES THICK (COMPACTED) AND BE PLACED TO FINISHED GRADE FOR SEEDING AREAS. PROPER ALLOWANCE IN FINISHED GRADE SHALL BE MADE FOR SODDED AREAS.
 B. LIME SHALL BE SPREAD AT A RATE OF ONE (1) TON PER ACRE.
 C. FERTILIZER 10-10-10 OR EQUIVALENT SHALL BE APPLIED AT A RATE OF 1700 LBS. PER ACRE. BOTH LIME AND FERTILIZER SHALL BE UNIFORMLY APPLIED TO THE LOOSENEE SEEDBED AND SHALL BE RAKED SMOOTH PRIOR TO SEEDING OR SODDING.
 D. MIXTURE FOR PERMANENT SEEDING SHALL BE 230 LBS. PER ACRE OF KENTUCKY 31 TALL PESCUE AND 20 LBS. PER ACRE OF RYE.
 E. IMMEDIATELY AFTER SEEDING THE AREA SHALL BE UNIFORMLY MULCHED AT A RATE OF 3000 LBS./ACRE, ANCHORED WITH 480 GAL./ACRE OF ASPHALT.
11. FOR SODDED AREAS, THE SOD SHALL BE LAID TO A TIGHT FIT AND ROLLED IN ORDER TO KNT TO THE SOIL. SODDED AREAS SHALL BE WATERED FOR UP TO 2 WEEKS, TO INSURE ROOTING TO THE SOIL BELOW.
12. NO PERMANENT SLOPES SHALL BE STEEPER THAN 3:1. ALL SLOPES 4:1 AND STEEPER SHALL BE PEGGED.
13. NO TEMPORARY SEDIMENTATION MEASURES ARE TO BE REMOVED WITHOUT PERMISSION BY THE SOIL CONSERVATION DISTRICT AND ONLY JUST PRIOR TO STABILIZATION OF TRIBUTARY AREAS.
14. ON SLOPES HAVING A GRADE STEEPER THAN 2%, THE MULCH SHALL BE OVERLAD WITH PLASTIC OR FIBER NETTING STAPLED TO THE GROUND ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
15. PLYWOOD SHALL BE PLACED OVER THE OPEN END OF ANY UNFINISHED STORM DRAIN AT THE END OF EACH WORKING DAY.

DESIGN CERTIFICATION

I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 H. A. Pinner 6-17-76
 Date

DEVELOPER'S CERTIFICATION

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County 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.
 Daniel J. Paganey 10/20/76
 Date

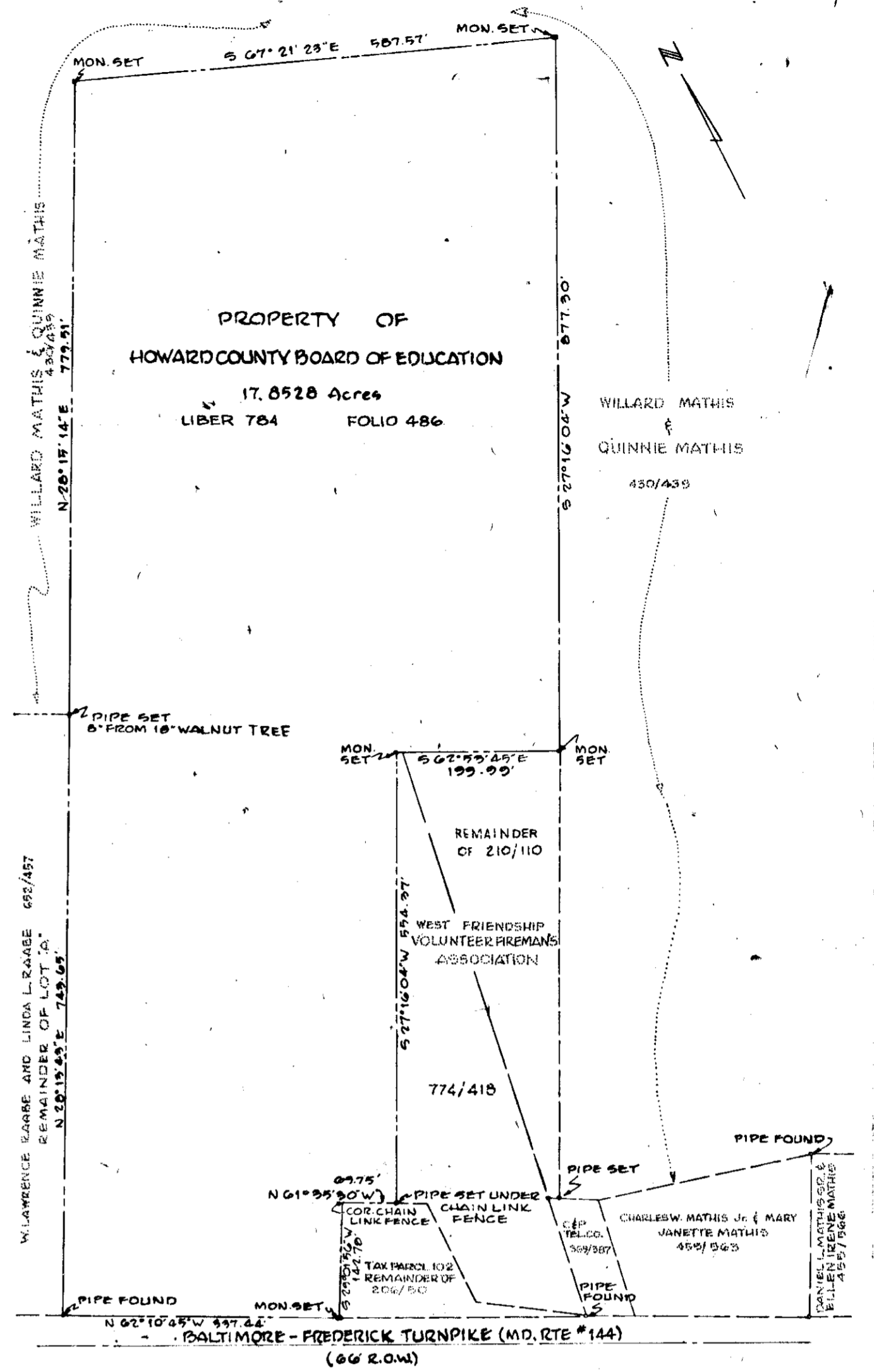
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED [Signature] DATE 11/1/76
 Howard S.C.D.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 10-7-76
 PDC

[Signature]
 DATE 11/1/76

OWNER: BOARD OF EDUCATION, 8045 ROUTE 32
 COLUMBIA, MARYLAND



BOUNDARY PLAT
NO SCALE

Rev. 8-31-76 due to Stormwater Management Addition and Relocation of Septic Field.

ASSOCIATED ENGINEERS, INC.
 SITE ENGINEERS
 3555 SIXTEENTH STREET
 SILVER SPRING, MARYLAND 20910
 TEL. 301-589-7311

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] DATE 11-4-76
 APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 [Signature] DATE 11-4-76
 APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE 11-4-76
 [Signature] DATE 11/8/76

COVER SHEET

ADDITIONS & ALTERATIONS
 WEST FRIENDSHIP
 ELEMENTARY SCHOOL
 ELECTION DISTRICT #3, TAX MAP #15
 HOWARD COUNTY, MARYLAND

DRAWING NO.
 G-0
 1 OF 8

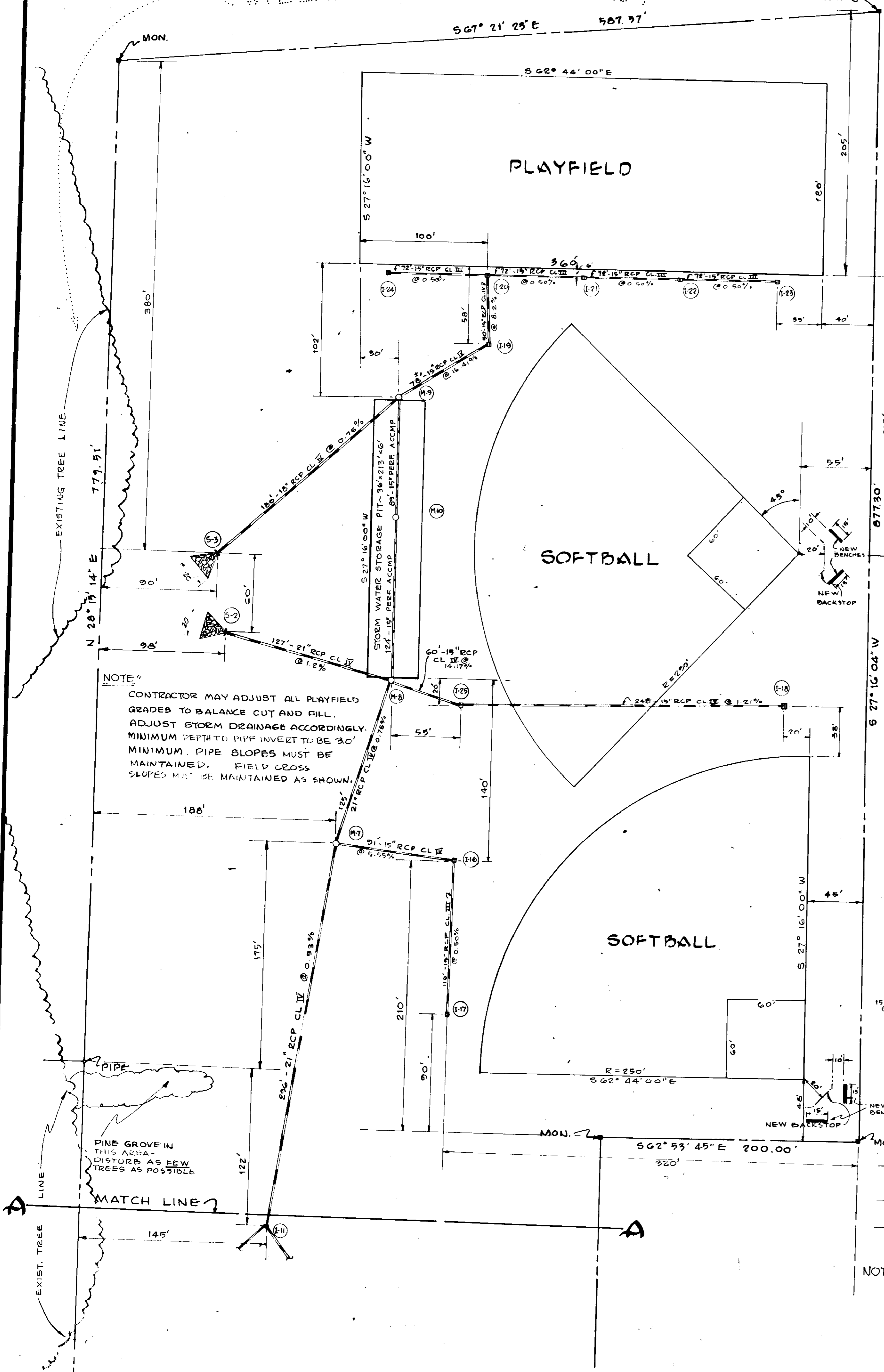
SARGENT & ASSOCIATES INC.
 ARCHITECTS
 10605 CONCORD ST. KENSINGTON, MD. 20885
 933.1558

WILLARD MATHIS & QUINNIE MATHIS
430/459

CURVE NO.	DELTA	RADIUS	ARC	TAN	CHORD BEARING	CHORD
1	83°46'01"	50'	73.10'	44.84'	N70°06'44"E	66.76'
2	180°00'00"	74'	232.48'		N21°59'44"E	237.48'
3	56°18'30"	74'	72.73'	39.60'	N83°50'29"E	65.83'
4	25°00'00"	76.15'	33.25'	16.88'	N69°40'56"W	37.86'
5	90°00'00"	60'	94.25'	60'	N17°10'45"W	24.86'
6	25°00'00"	46.15'	20.14'	10.23'	N69°40'56"W	19.98'

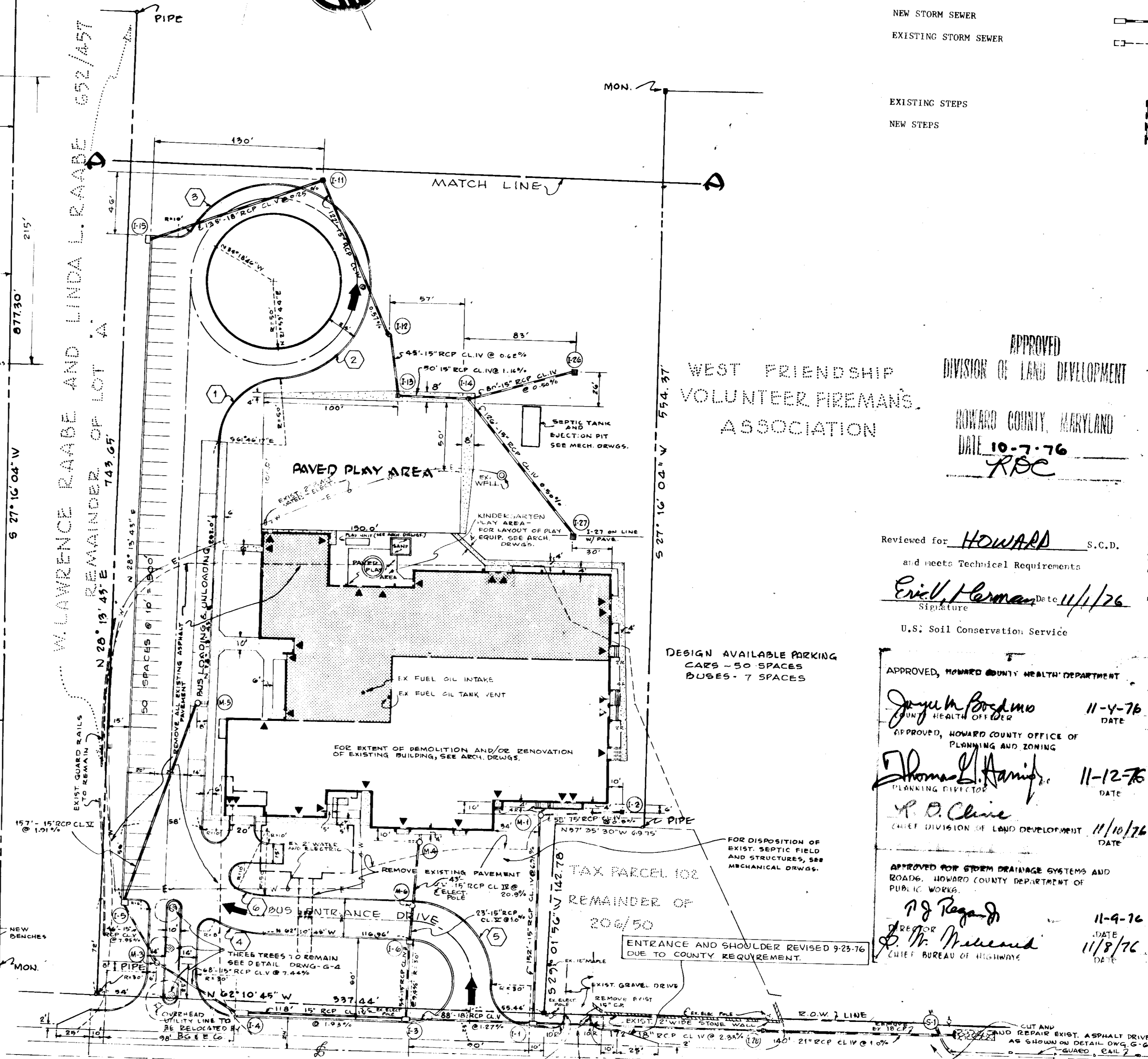
NOTE: ALL CURVE DATA GIVEN IS TO FACE OF CURB

- LEGEND
- EXISTING BUILDING
 - RENOVATED BUILDING
 - NEW BUILDING
 - EXISTING BITUMINOUS CONCRETE TO REMAIN
 - NEW CONCRETE PAVEMENT
 - NEW BITUMINOUS CONCRETE PAVEMENT
 - NEW CONCRETE CURB & GUTTER
 - NEW STORM SEWER
 - EXISTING STORM SEWER
 - EXISTING STEPS
 - NEW STEPS



NOTE:
CONTRACTOR MAY ADJUST ALL PLAYFIELD GRADES TO BALANCE CUT AND FILL. ADJUST STORM DRAINAGE ACCORDINGLY. MINIMUM DEPTH TO PIPE INVERT TO BE 30". MINIMUM PIPE SLOPES MUST BE MAINTAINED. FIELD CROSS SLOPES MUST BE MAINTAINED AS SHOWN.

W. LAWRENCE RAABE AND LINDA L. RAABE
REMAINDER OF LOT A
749.05'



WEST FRIENDSHIP VOLUNTEER FIREMAN'S ASSOCIATION

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 10-7-76
RBC

Reviewed for HOWARD S.C.D.
and meets Technical Requirements
Eric Herman Date 11/1/76
Signature

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
Jorge A. Bordeino 11-4-76
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Hamill 11-12-76
P. O. Clive 11/10/76

APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADWAY, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. J. Ragard 11-9-76
B. W. Malsam 11/8/76

BALTIMORE-FREDERICK TURNPIKE (MD. RTE # 144)
(66' R.O.W.)

NOTE: ALL DRIVEWAYS AND PARKING AREAS ARE PRIVATE.

SCALE: 1" = 30'

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

APPROVED [Signature] DATE 11/1/76
Howard S.C.D.

OWNER: BOARD OF EDUCATION, 8045 ROUTE 22
COLUMBIA, MARYLAND

LAYOUT PLAN 2

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT #5, TAX MAP 15
HOWARD COUNTY, MARYLAND

DRAWING NO.

G-1
2 OF 8

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
1155 SPRINGFIELD STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-580-9231

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULFORD
ELECTRICAL ENGINEER

SARGENT & ASSOCIATES INC
A R C H I T E C T S
10605 CONCORD ST. KENSINGTON, MD.

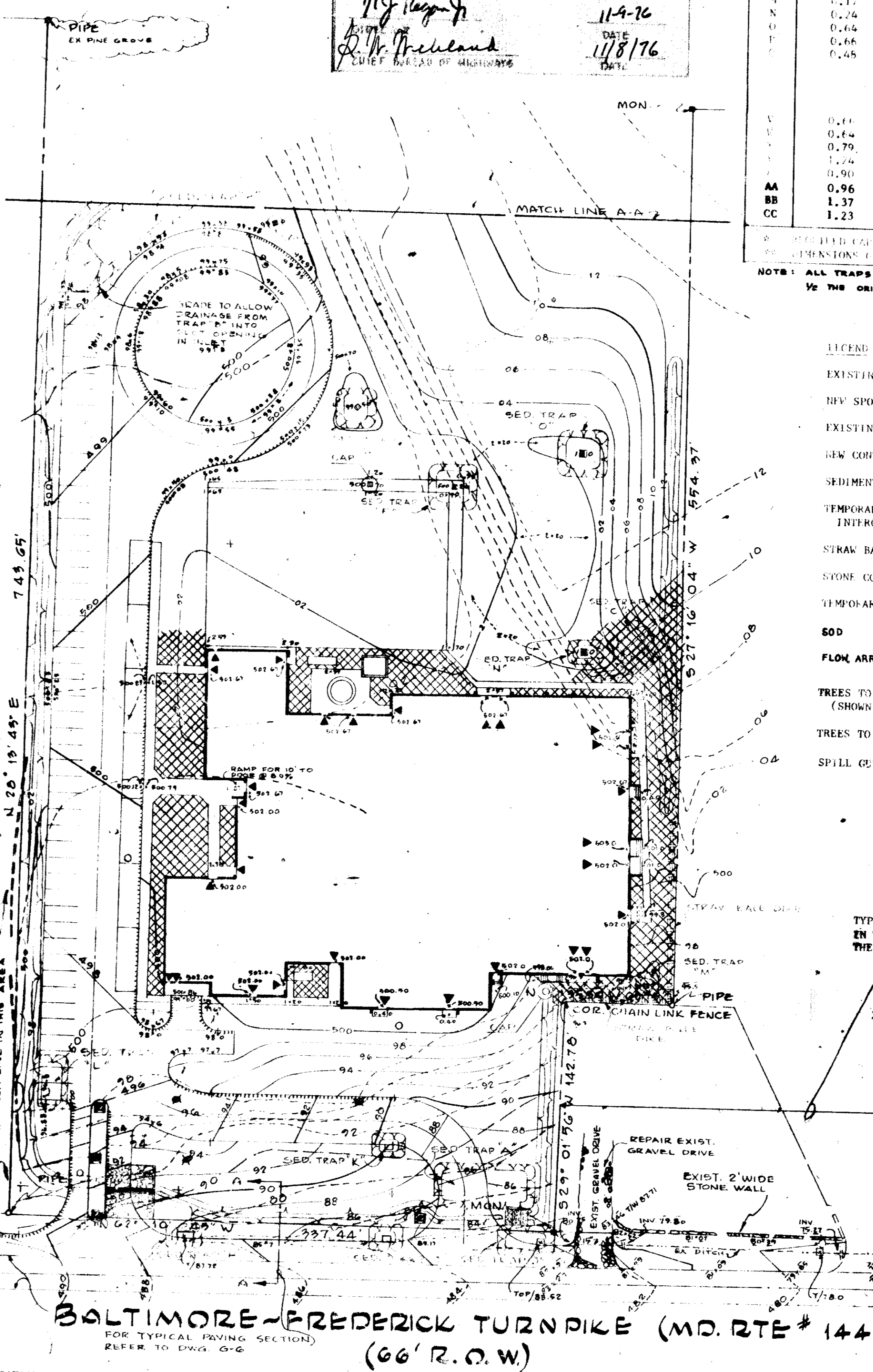
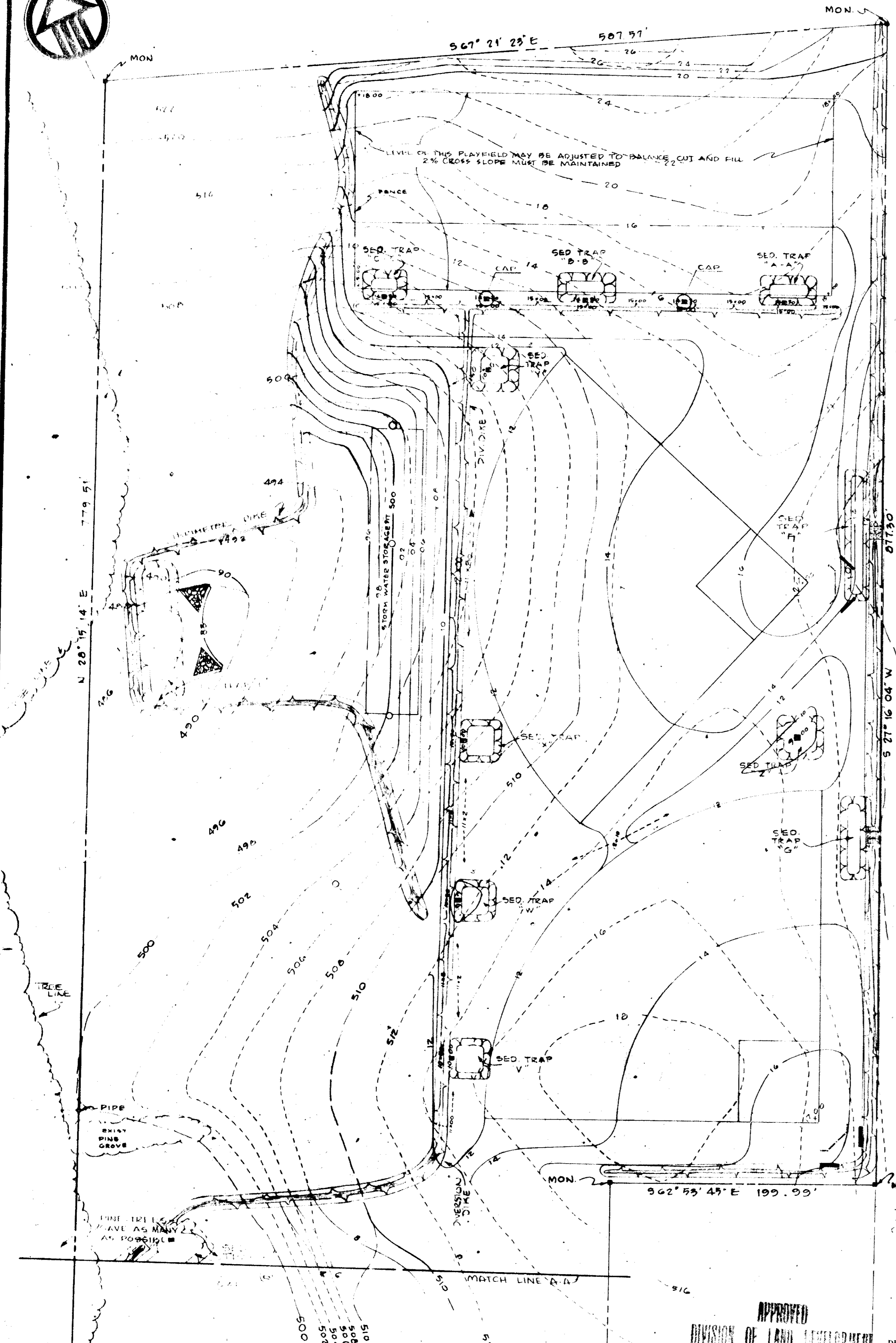


Reviewed for HOWARD S.C.D.
and meets Technical Requirements
Eric K. Hanna Date 4/1/76
Superior
U.S. Soil Conservation Service

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Burgess DATE 11-4-76
HEALTH OFFICER
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Harvick DATE 11-12-76
PLANNING DIRECTOR
APPROVED FOR SEWER SEPARATION SYSTEMS AND STORMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
PJ Regan DATE 11-4-76
D. W. Ireland DATE 11/8/76
CHIEF CLERK OF WORKS

TRAP NO.	TRIB. AREA (ACRES)	REQ'D CAP. (CU. YDS.)	DIMENSIONS (FT)			ACTUAL CAP. (CU. YDS.)	WIDTH OVERALL	STONE WIDTH	CLEANOUT ELEV.
			LENGTH	WIDTH	DEPTH				
1	1.5	10.1	53	20	2	107.1	5	13	484.00
2	3.61	24.1	77	20	3	243.8	8	13	497.90
3	0.33	2.0	16	10	2	22.0	5	17	508.90
4	4.41	295.6	95	20	3	295.8	12	20	485.00
5	1.46	97.8	90	10	2	98.7	5	13	503.00
6	0.90	60.6	54	10	2	61.3	5	13	511.00
7	0.24	16.1	14	8	2	17.2	5	13	511.00
8	0.25	16.8	14	8	2	17.2	5	13	485.05
9	0.48	32.2	26	10	2	32.3	5	13	482.15
10	0.27	14.7	12	8	2	15.4	5	13	480.85
11	0.36	37.5	27	12	2	37.2	5	13	484.81
12	0.17	11.4	8	8	2	11.9	5	13	484.81
13	0.24	16.1	14	8	2	17.2	5	13	485.00
14	0.64	42.9	20	20	2	44.0	5	13	500.00
15	0.68	44.7	21	20	2	45.6	5	13	500.00
16	0.45	32.2	17	16	2	32.3	5	13	498.90
17	0.18	44.2	21	20	2	45.1	5	13	505.00
18	0.44	47.9	20	20	2	44.0	5	13	508.70
19	0.79	52.9	23	22	2	53.2	5	13	509.00
20	1.24	85.1	21	21	3	85.0	5	13	508.50
21	0.90	60.3	25	24	3	61.3	5	13	508.00
22	0.96	64.3	28	10	3	64.4	5	13	508.00
23	1.37	92.0	44	10	3	92.9	5	13	516.80
24	1.23	82.4	39	10	3	84.0	5	13	516.80

NOTES: ALL TRAPS SHALL BE CLEANED OUT WHEN SEDIMENT DEPTH IS EQUAL TO 1/2 THE ORIGINAL DESIGN DEPTH. THIS IS CLEANOUT ELEVATION GIVEN ABOVE.



- LEGEND
- EXISTING SPOT GRADE 99.50
 - NEW SPOT GRADE 99.50
 - EXISTING CONTOUR 98
 - NEW CONTOUR 04
 - SEDIMENT TRAP
 - TEMPORARY EARTH INTERCEPTOR DIKE
 - STRAW BALE
 - STONE CONSTRUCTION
 - TEMPORARY STRUCTURE CAP
 - SOD
 - FLOW ARROW
 - TREES TO REMAIN (SHOWN W/TREE PROTECTION)
 - TREES TO REMOVE
 - SPILL CUTTER

TYPICAL GRADING WITHIN R.O.W. ROUTE #144 IN THIS AREA WITH THE EXCEPTION OF GRADING AROUND INLET I-28:
1) FROM EDGE OF EXISTING PAVING TO FLOW LINE 24 FEET FROM CENTERLINE PAVING GRADE DOWN MAINTAINING CLOSURE OF EXISTING PAVING
2) FROM FLOW LINE TO NORTHERLY R.O.W. LINE GRADE UP TO MEET EXISTING GRADES.

DESIGN CERTIFICATION
I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Asst. P. Regan 6-17-76
Date

DEVELOPER'S CERTIFICATION
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspections by the Howard County 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.
Donald J. Regan 10/26/76
Date

APPROVED Richard J. Zeman DATE 4/1/76
Howard S.C.D.

OWNER: BOARD OF EDUCATION, 813 ROUTE 32
COLUMBIA, MARYLAND

GRADING & SEDIMENT CONTROL PLAN

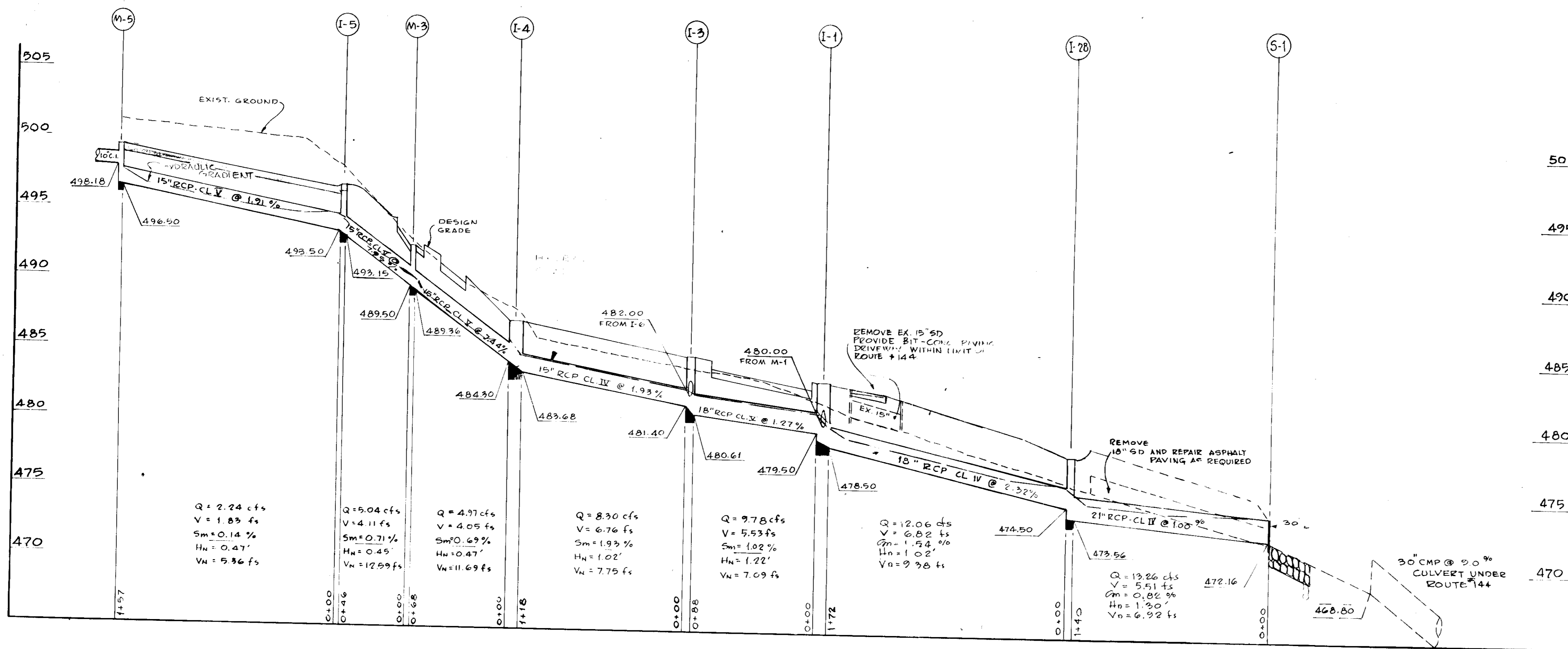
ASSOCIATED ENGINEERS INC.
ENGINEERS
3500 SILVER SPRING MARLAND 20910
TEL 301-568-2311

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT 2, TAX MAP 15
HOWARD COUNTY, MARYLAND

DRAWING NO.
G-2
3
OF 8

SARGENT & ASSOCIATES INC
ARCHITECTS
3605 CONCORD ST. KENSINGTON, MD 20745

SDP-76-96

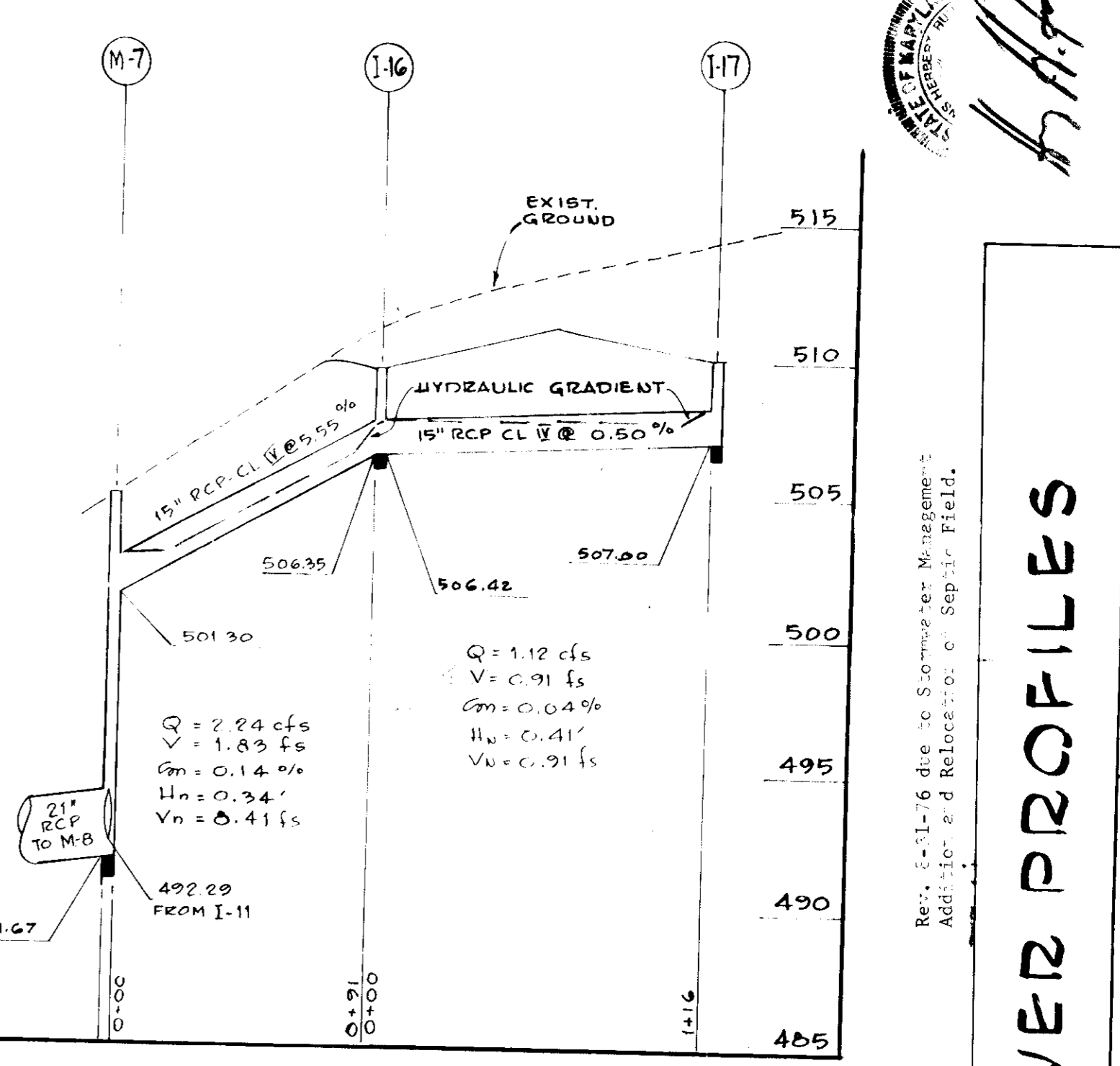
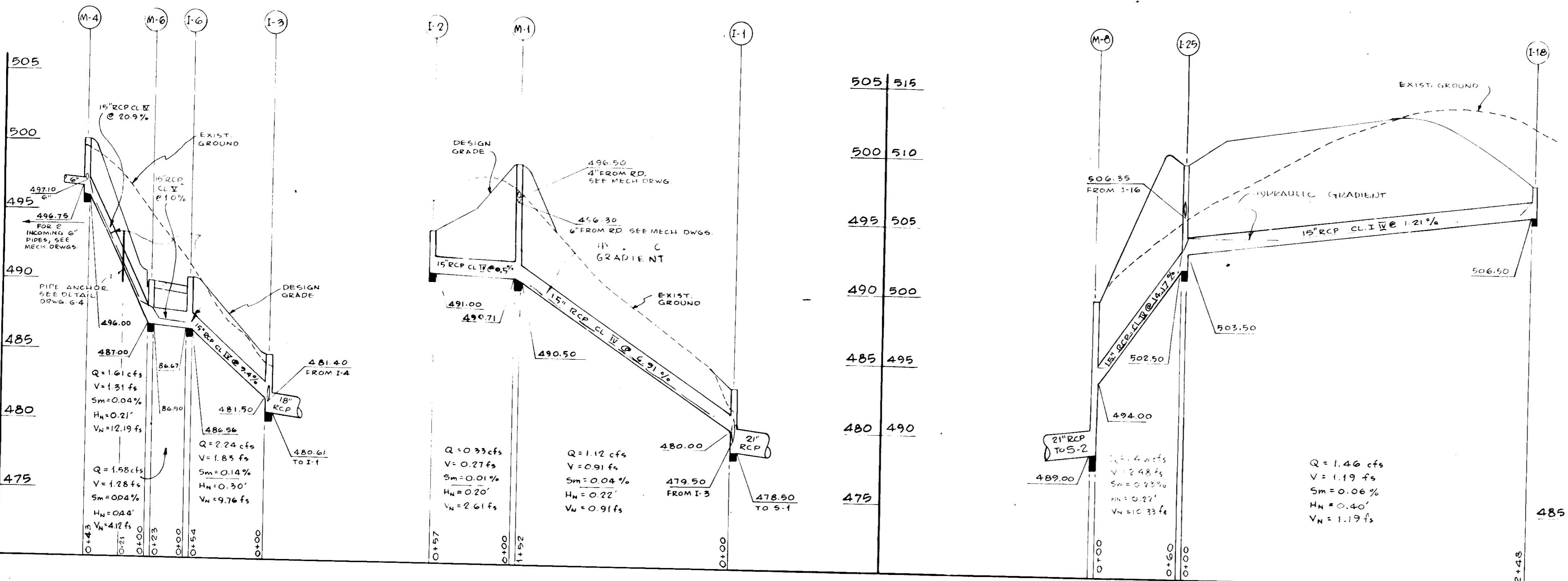


STORM SEWER STRUCTURE TABLE

STRUCTURE NO.	TYPE	TOP ELEVATION	INVERT OUT	REMARKS
S-1	"C" ENWALL	-	472.46	HOWARD COUNTY DETAIL D-10, P.107
S-2	"C" ENWALL	-	467.65	H.C.D. D-103 P.107
S-3	"C" ENWALL	-	462.80	H.C.D. D-103 P.107
M-1	MANHOLE	498.00	490.50	H.C.D. D-103 P.158
M-2	MANHOLE	491.50	483.75	H.C.D. D-103 P.158
M-3	MANHOLE	482.50	485.46	H.C.D. D-103 P.158
M-4	MANHOLE	509.20	496.00	H.C.D. D-103 P.158
M-5	MANHOLE	498.50	496.50	H.C.D. D-103 P.158
M-6	MANHOLE	499.00	496.00	H.C.D. D-103 P.158
M-7	A-10 INLET	483.52	478.50	H.C.D. 66-A P.119 A
1-7	YARD DRAIN	496.00	491.00	AS DETAILED DRWG. G-5
A-1	ELEP	486.86	480.61	H.C.D. 66-A P.119 A
A-1	11" I.P.	487.72	483.68	H.C.D. 66-A P.119 A
A-5	11" I.P.	496.88	493.15	H.C.D. 66-A P.119 A
A-7	11" I.P.	490.38	486.6	H.C.D. 66-A P.119 A
1-11	YARD DRAIN	491.00	493.86	AS DETAILED DRWG. G-5
1-12	YARD DRAIN	494.50	495.15	AS DETAILED DRWG. G-5
1-13	YARD DRAIN	500.70	497.58	AS DETAILED DRWG. G-5
1-14	YARD DRAIN	500.70	496.66	AS DETAILED DRWG. G-5
1-15	A-7 INLET	498.33	494.45	H.C.D. 66-A P.119 A
1-16	YARD DRAIN	509.70	506.35	AS DETAILED DRWG. G-5
1-17	YARD DRAIN	510.00	507.00	AS DETAILED DRWG. G-5
1-18	YARD DRAIN	510.00	506.40	AS DETAILED DRWG. G-5
1-19	YARD DRAIN	510.00	507.42	AS DETAILED DRWG. G-5
1-20	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-21	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-22	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-23	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-24	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-25	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-26	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-27	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
1-28	YARD DRAIN	514.30	511.30	AS DETAILED DRWG. G-5
M-7	MANHOLE	505.00	491.67	H.C.D. D-103, p.158
M-8	CONTROL STRUCTURE	503.00	485.72	AS DETAILED DRWG. G-6
M-9	CONTROL STRUCTURE	503.00	485.72	AS DETAILED DRWG. G-6
M-10	MANHOLE	503.00	485.72	H.C.D. D-103, p.158

*SEE STORAGE PIT SECTION THROUGH M-10 ON DRAWING G-6 FOR MODIFICATIONS

PIPE LEGEND
 RCP - REINFORCED CONCRETE PIPE
 CMP - CORRUGATED METAL PIPE
 PERF. ACCMP - PERFORATED ASPHALT FULLY COATED CORRUGATED METAL PIPE



Reviewed for: HOWARD S.C.D.
 and meets Tech. Spec. Requirements:
Eric V. [Signature] Date: 11/1/76
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] DATE: 11/1/76
 HOWARD S.C.D.

ASSOCIATED ENGINEERS, INC.
 SITE ENGINEERS
 8555 SIXTEENTH STREET
 SILVER SPRING, MARYLAND 20910
 TEL. 301 589-7311

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
[Signature] DATE: 11-4-76
 CITY HEALTH OFFICE
 APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] DATE: 11-12-76
 PLANNING DIRECTOR
[Signature] DATE: 11/10/76
 CELL DIVISION OF LAND DEVELOPMENT

APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 11-9-76
[Signature] DATE: 11/8/76
 COUNTY ENGINEER

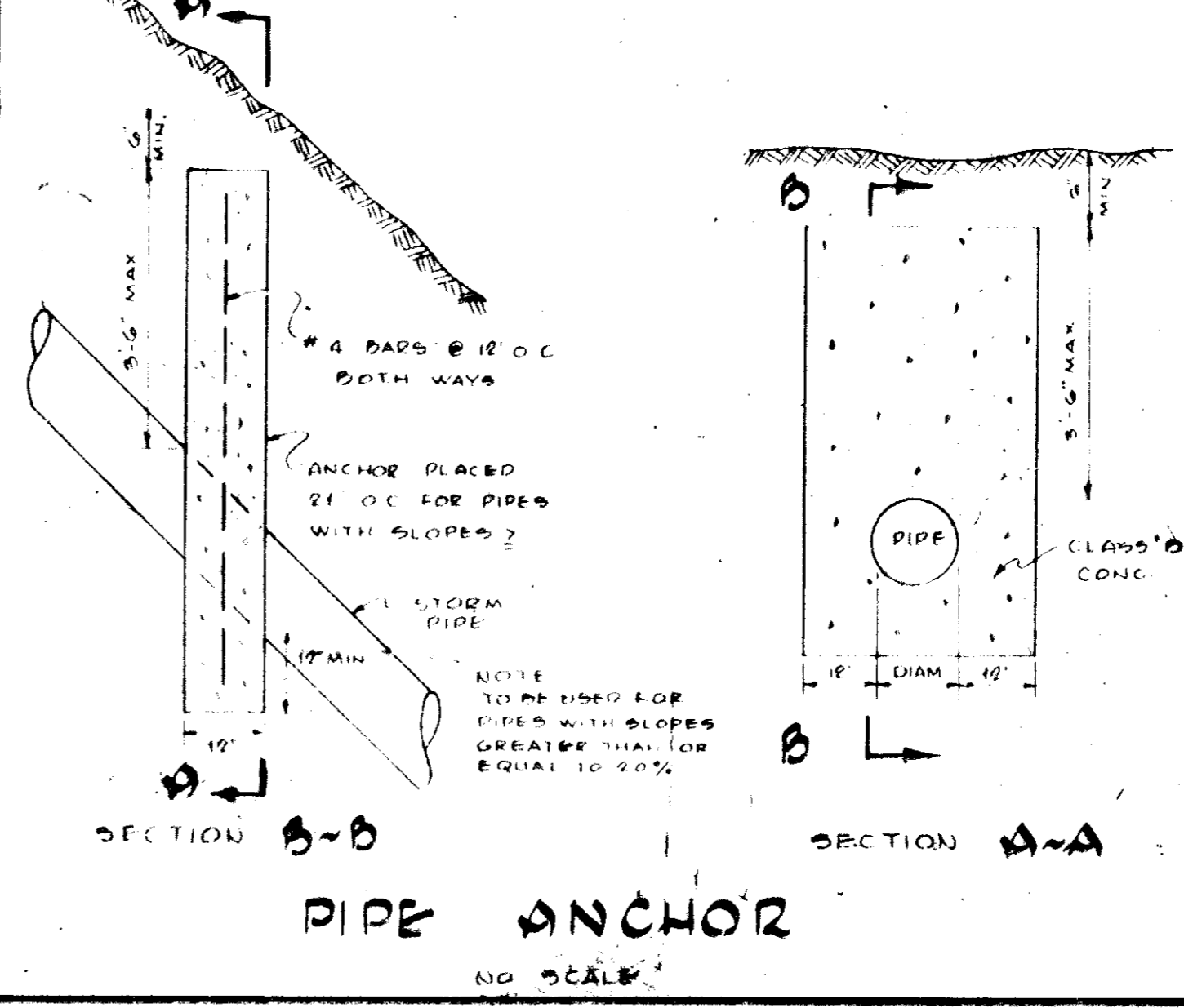
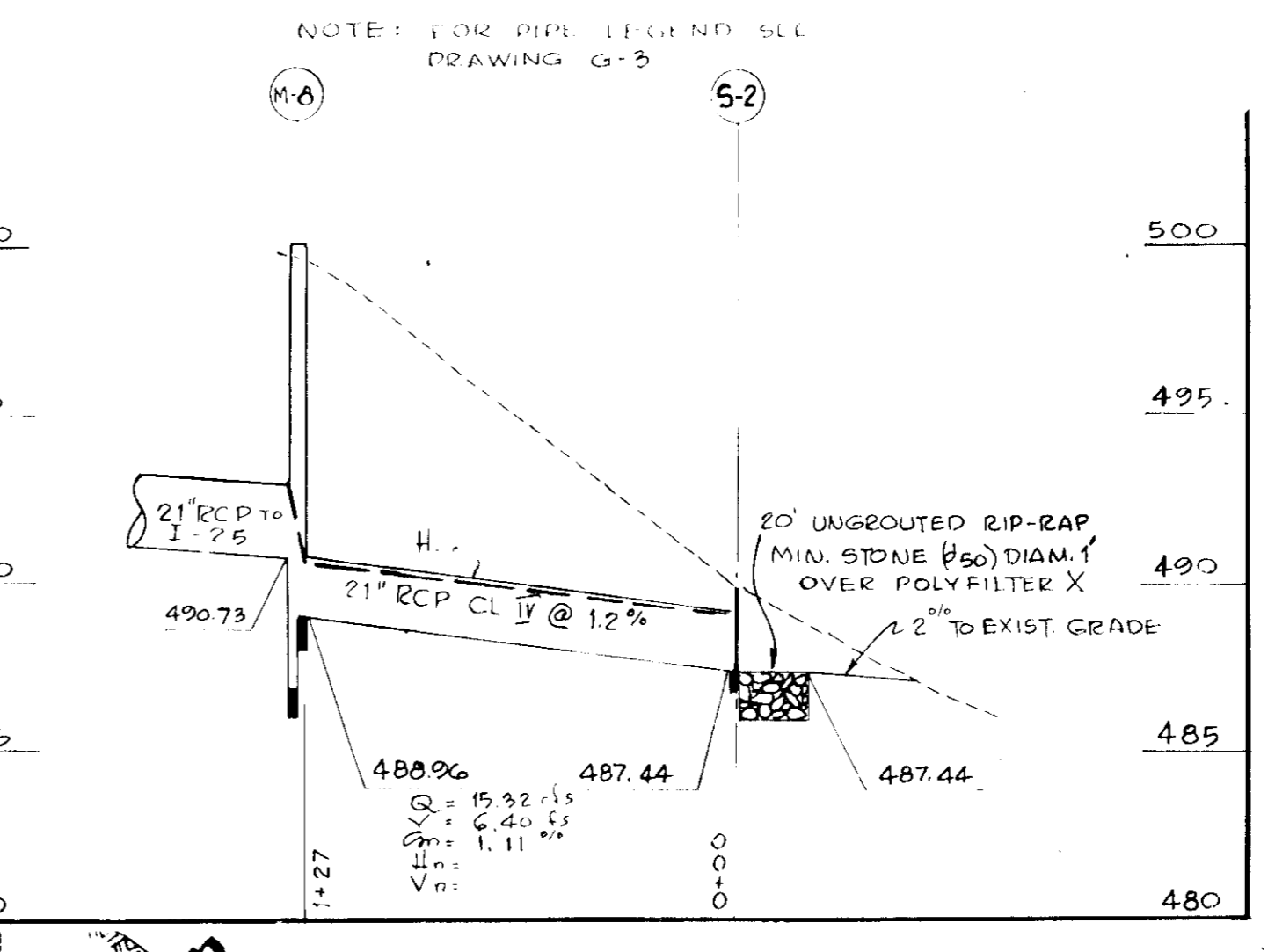
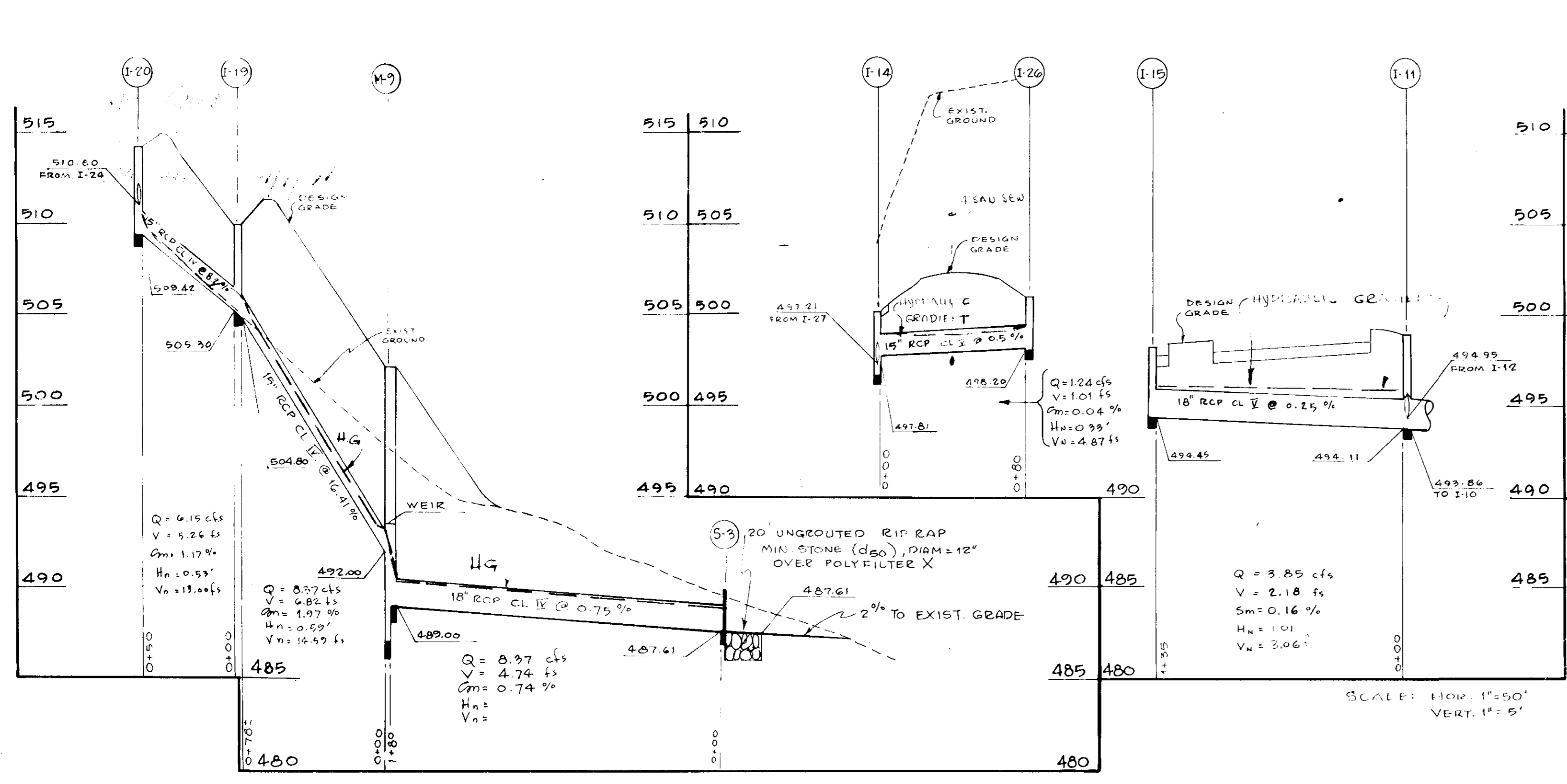
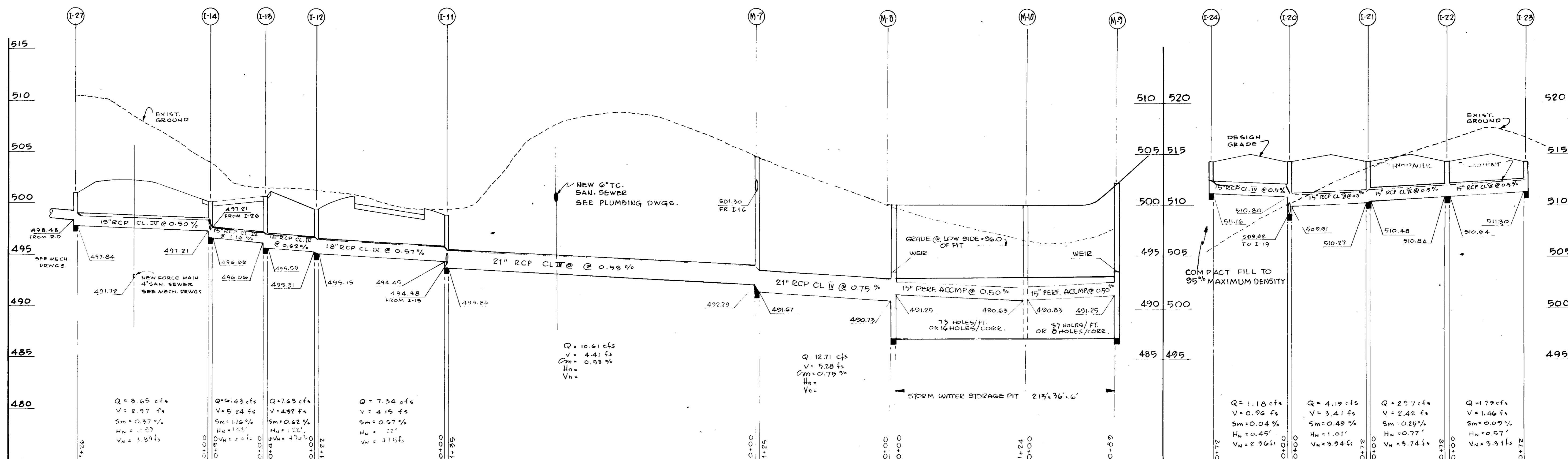
STORM SEWER PROFILES

ADDITIONS & ALTERATIONS
 WEST FRIENDSHIP ELEMENTARY SCHOOL
 ELECTION DISTRICT 15, TAX MAP #15
 HOWARD COUNTY, MARYLAND

ASSOCIATED ENGINEERS, INC.
 SITE ENGINEERS
 KELLER & MARCHIGIANI
 STRUCTURAL ENGINEERS
 RICHARD L. LUTZ
 MECHANICAL ENGINEER
 HARRY G. FULLFORD
 ELECTRICAL ENGINEER

DRAWING NO. **G-3**
 4 OF 8

SARGENT & ASSOCIATES INC.
 ARCHITECTS
 10605 CONCORD ST. KENSINGTON, MD. 20885



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

APPROVED: *Robert E. Johns* DATE: 11/12/76
HOWARD S.C.D.

Reviewed for HOWARD S.C.D. and meets Technical Requirements

Eric H. Howard DATE: 11/12/76
S.C.D. OFFICER

OWNER: BOARD OF EDUCATION, 2065 ROUTE 37, COLUMBIA, MARYLAND

U.S. Soil Conservation Service

APPROVED
HOWARD COUNTY, MARYLAND
DATE: 10-7-76
ABC

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
Joseph B. Boggs DATE: 11-4-76
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Harris DATE: 11-12-76
R.D. Clark DATE: 11/10/76

APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
P.J. Regan DATE: 11-9-76
J.M. McLeod DATE: 11/8/76

ASSOCIATED ENGINEERS, INC.
8555 SILVER SPRING STREET
SILVER SPRING, MARYLAND 20910
TEL: 301-589-7211

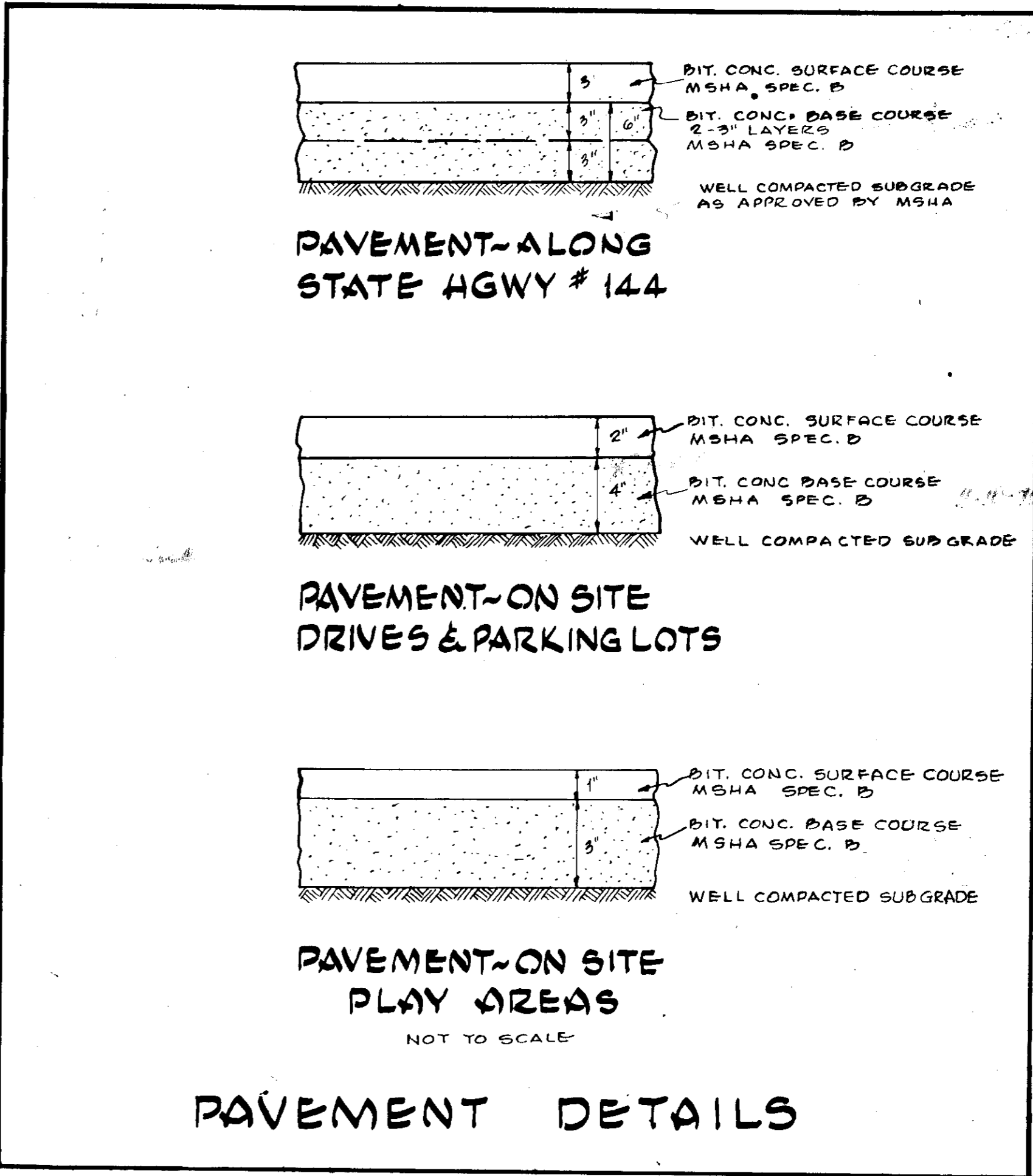
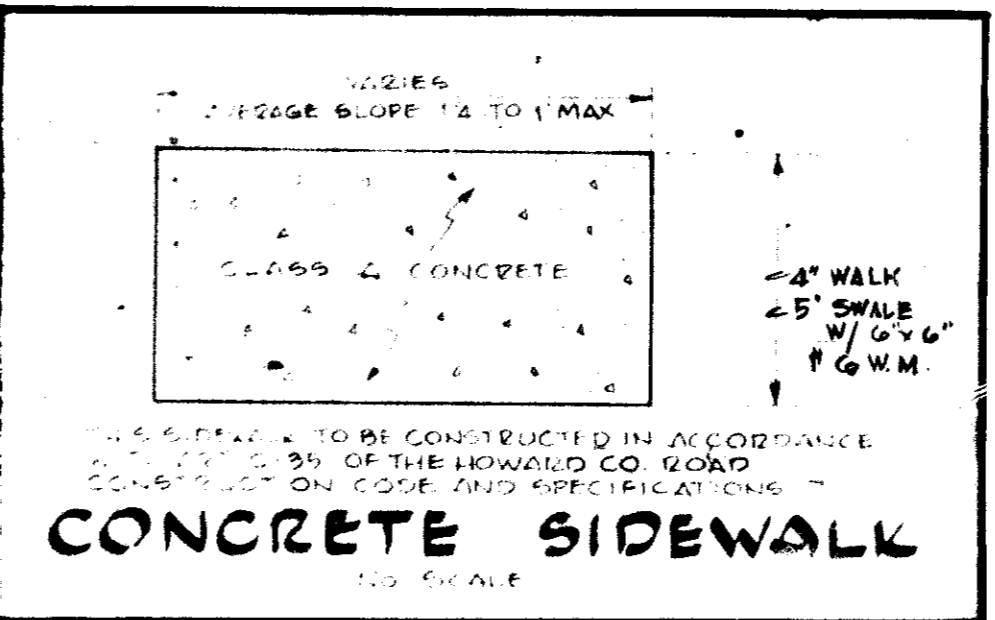
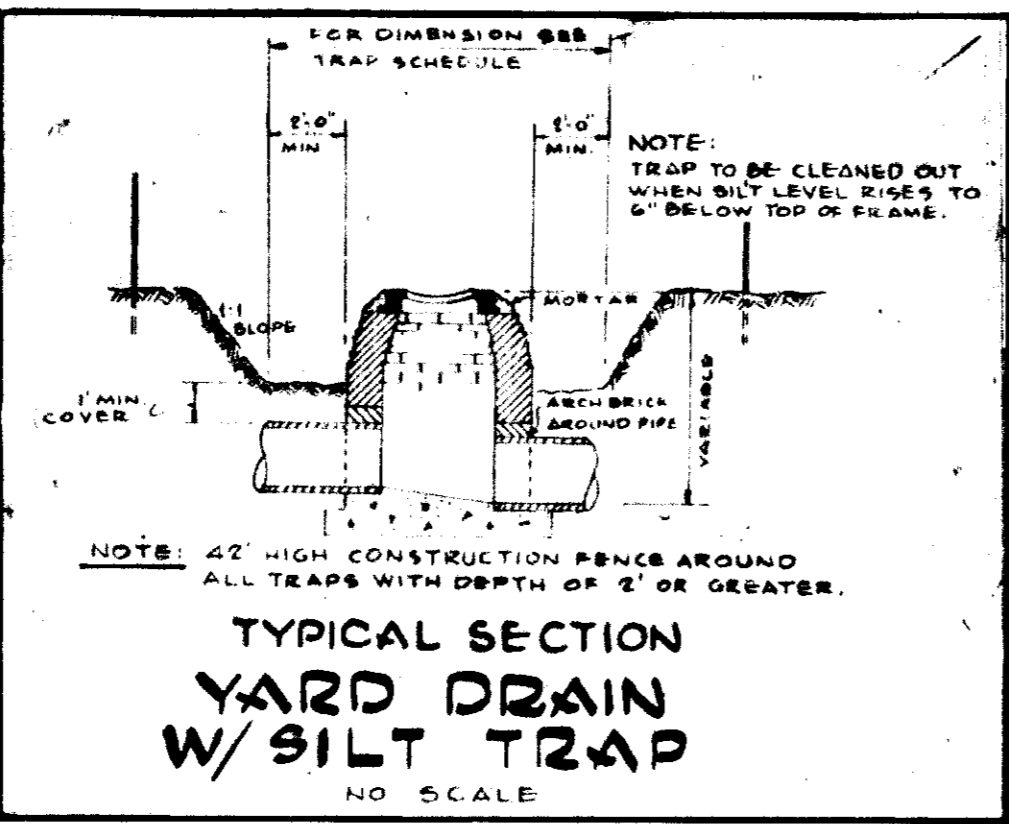
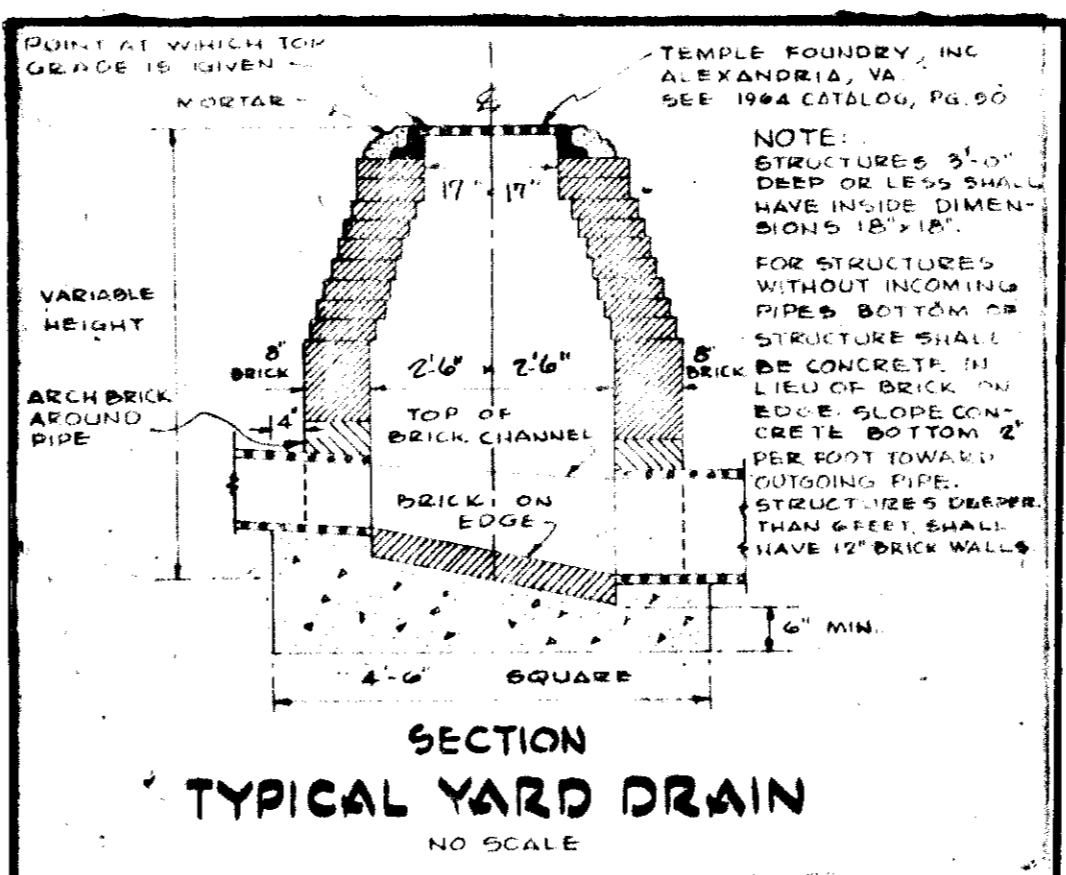
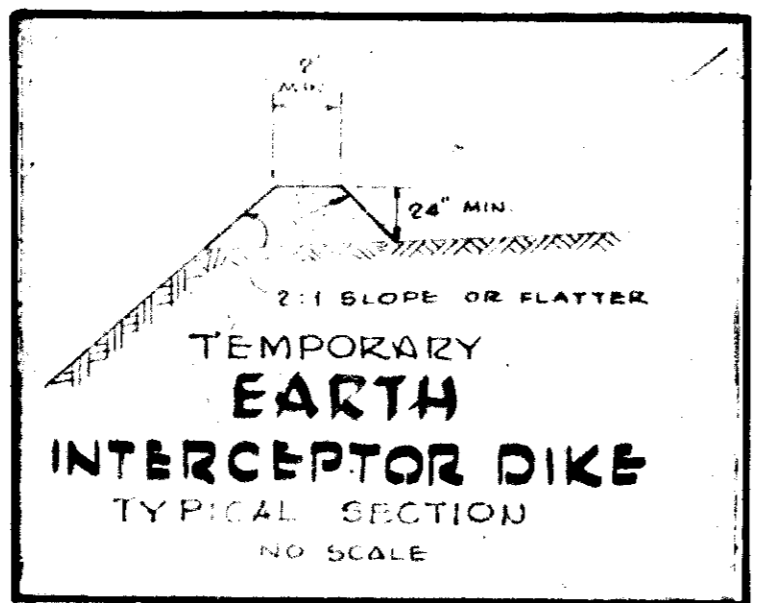
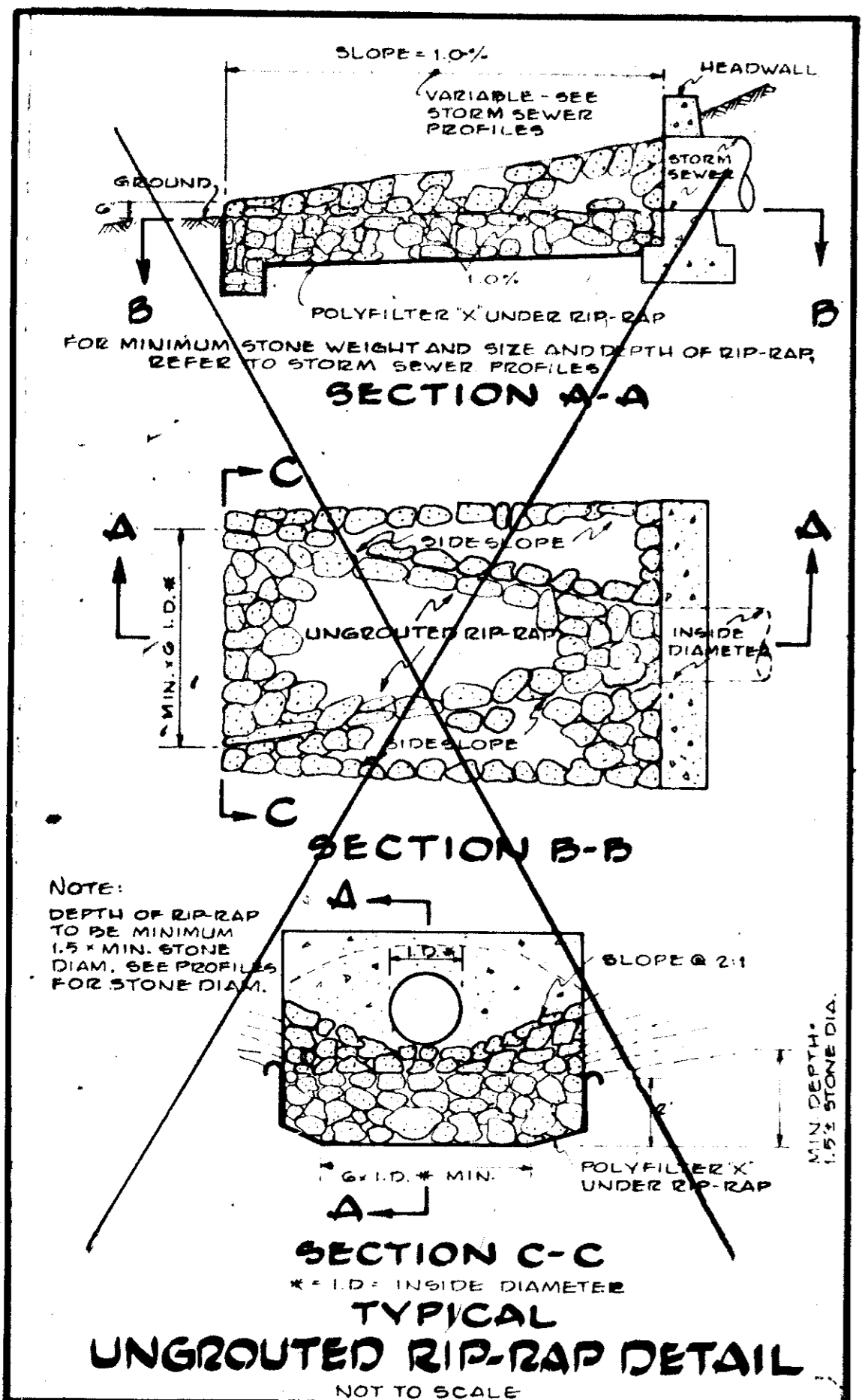
STORM SEWER PROFILES

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT #3, TAX MAP 15
HOWARD COUNTY, MARYLAND

DRAWING NO.

G-4
3 OF 8

SARGENT & ASSOCIATES INC
ARCHITECTS

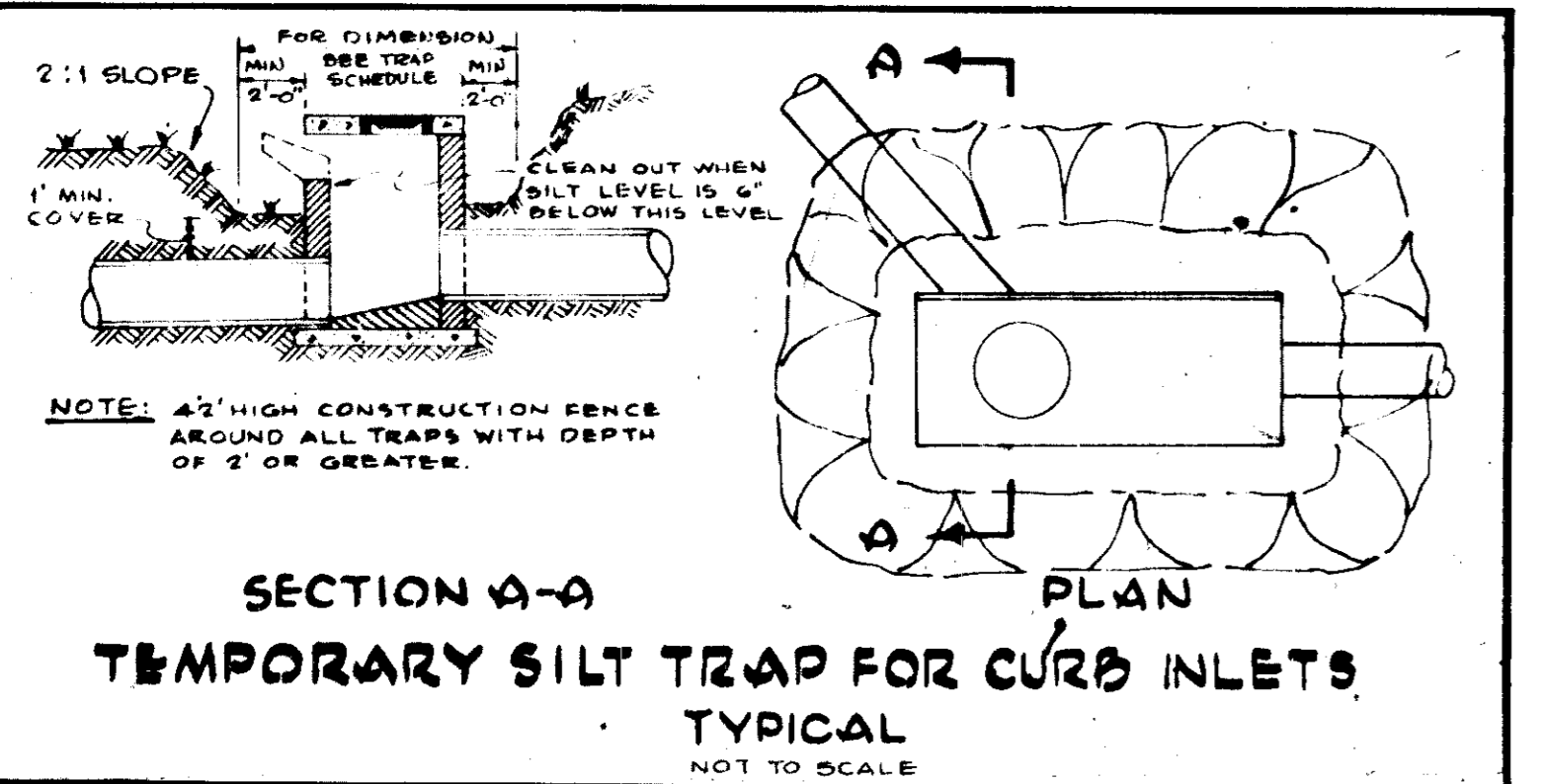
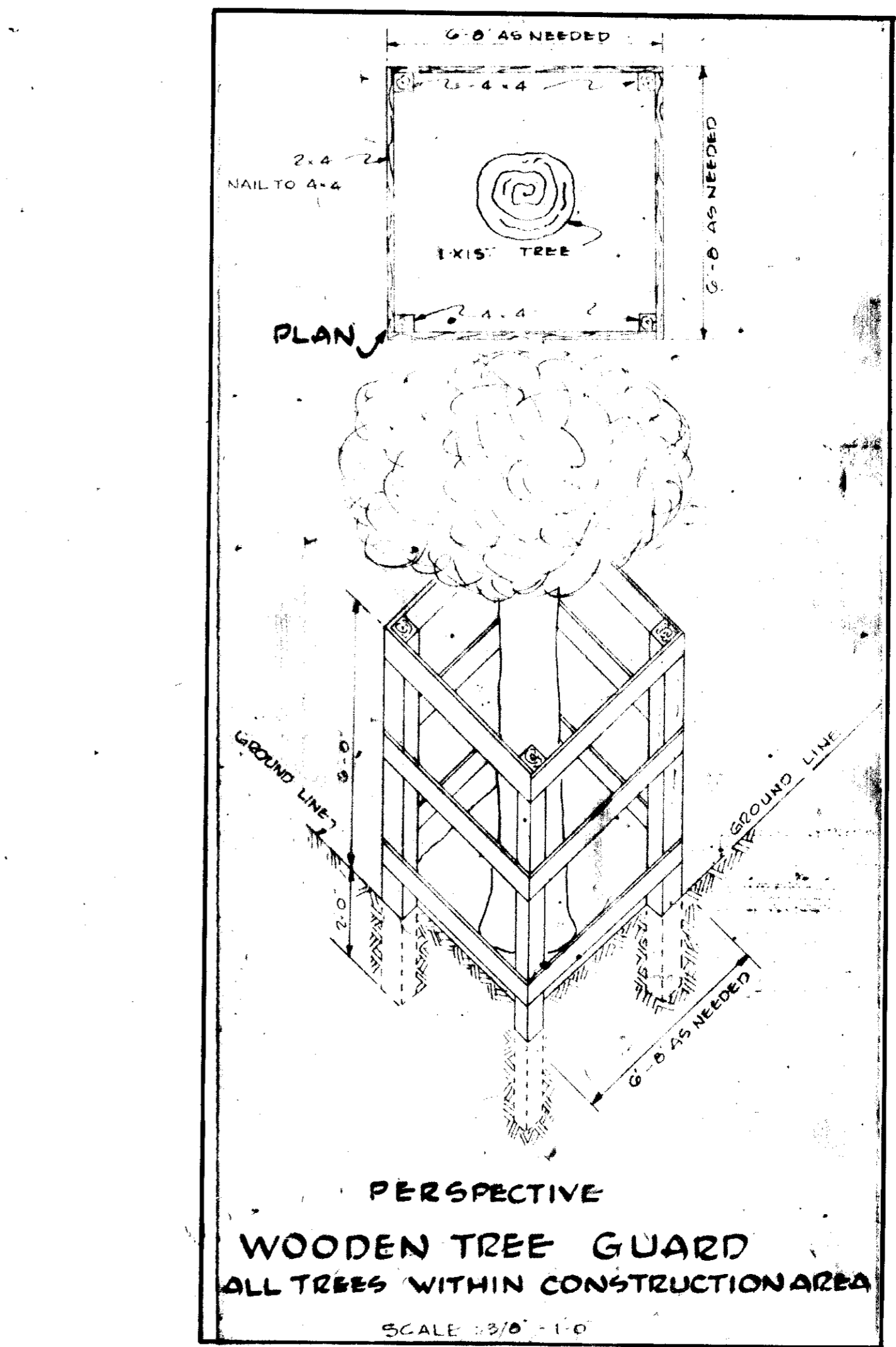
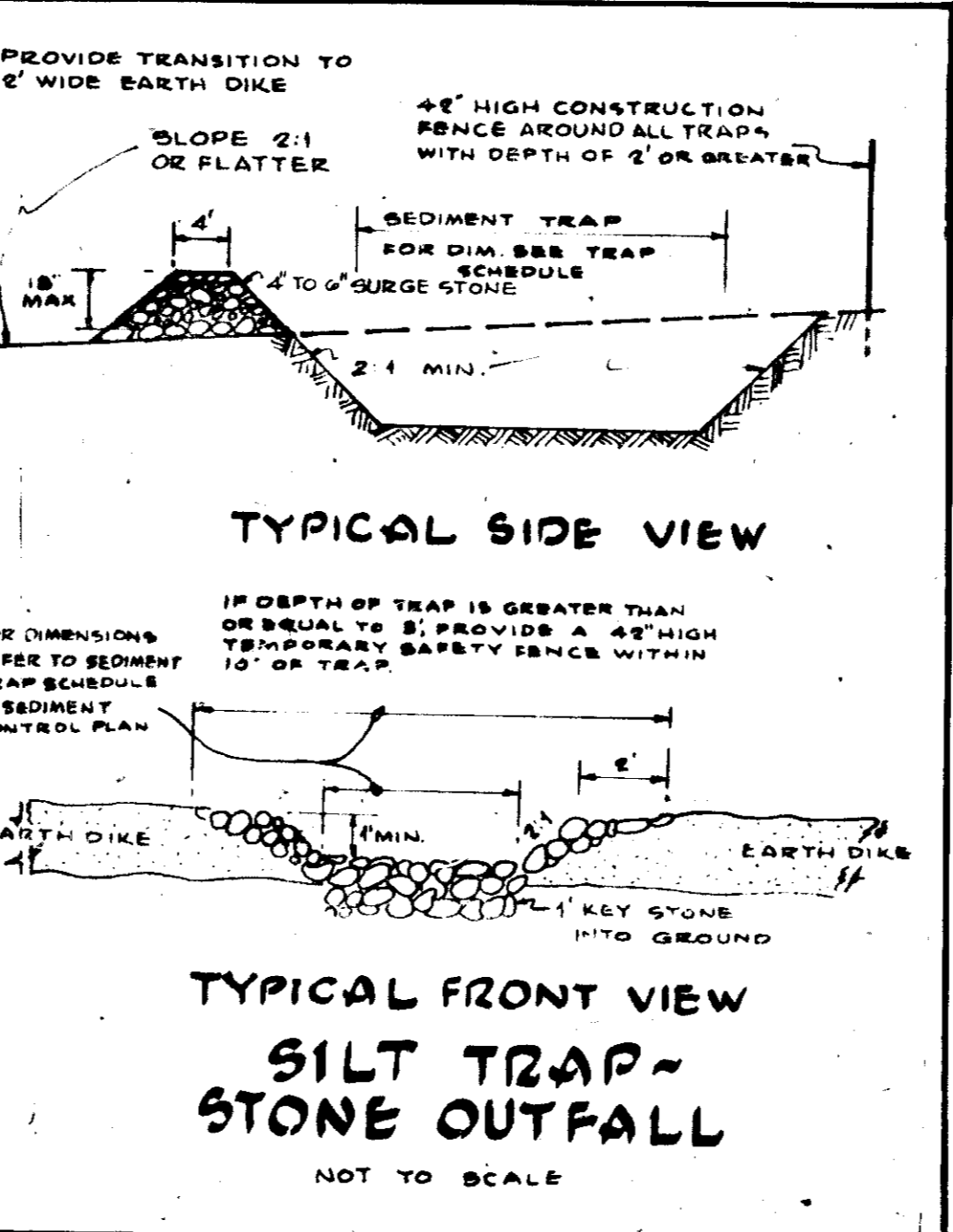
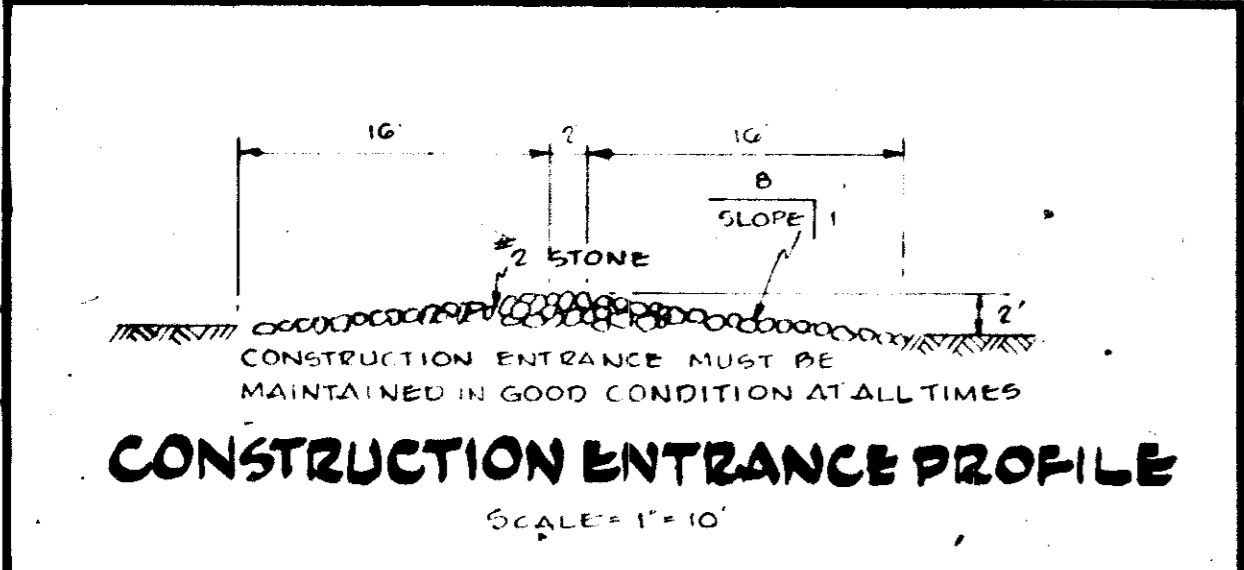
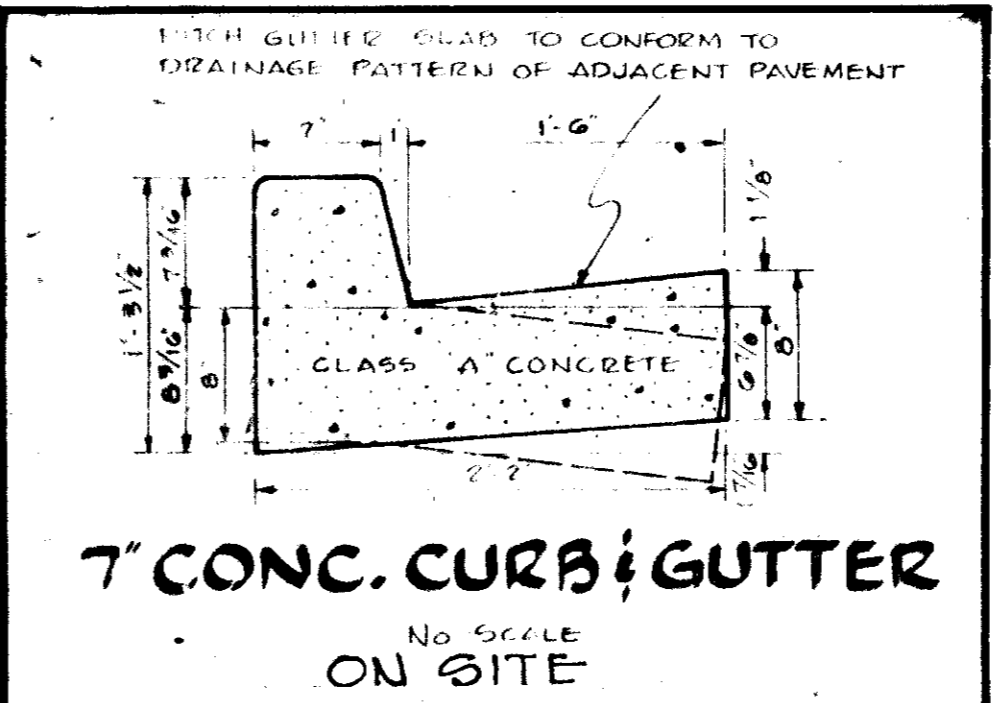
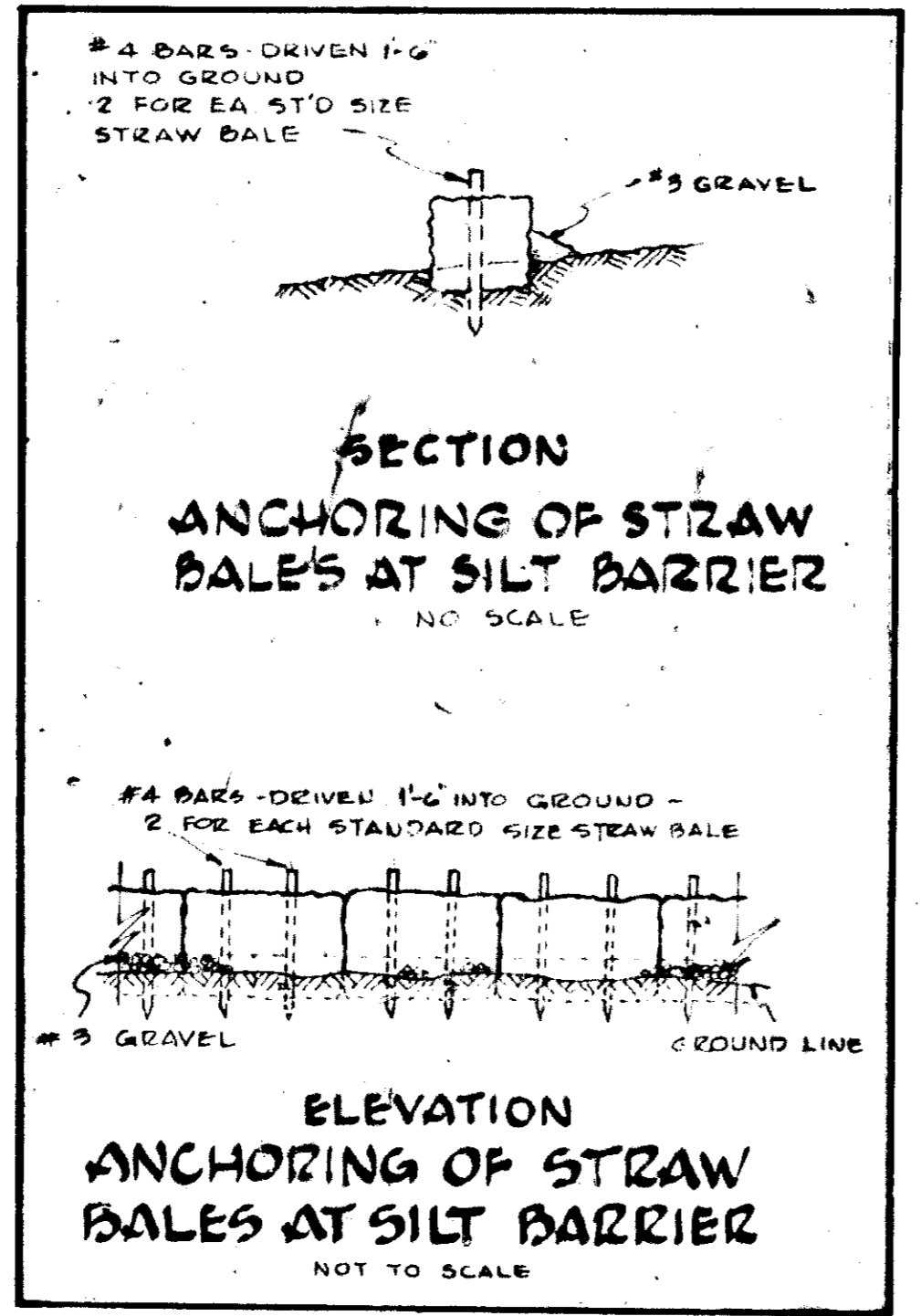


REFER TO DESIGN DETAIL OF OUTLET PROTECTION APPENDIX A-38. STD. & SPECS. FOR SOIL EROSION CONTROL, 1975 EDITION.

Reviewed for HOWARD S.C.D. and meets Technical Requirements

Eric V. Herman Date 11/17/76
Signature

U.S. Soil Conservation Service



APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
James Brodsky 11-4-76
COUNTY HEALTH OFFICER DATE

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas M. Hancock 11-12-76
PLANNING DIRECTOR DATE

R. B. Cline 11/10/76
CHIEF DIVISION OF LAND DEVELOPMENT TRANSPORTATION PLANNING DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND BOARDS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
P. J. Reagan 11-9-76
DIRECTOR DATE

R. M. Meekland 11/8/76
CHIEF BUREAU OF HIGHWAYS DATE

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
825 S. SILVER SPRING
BALTIMORE, MARYLAND 21201
TEL. 301-588-7311

APPROVED Colin J. Schem DATE 11/17/76
HOWARD COUNTY

APPROVED DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 10-7-76
RBC

SARGENT & ASSOCIATES INC
ARCHITECTS

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULLER
ELECTRICAL ENGINEER

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT #3
HOWARD COUNTY, MARYLAND

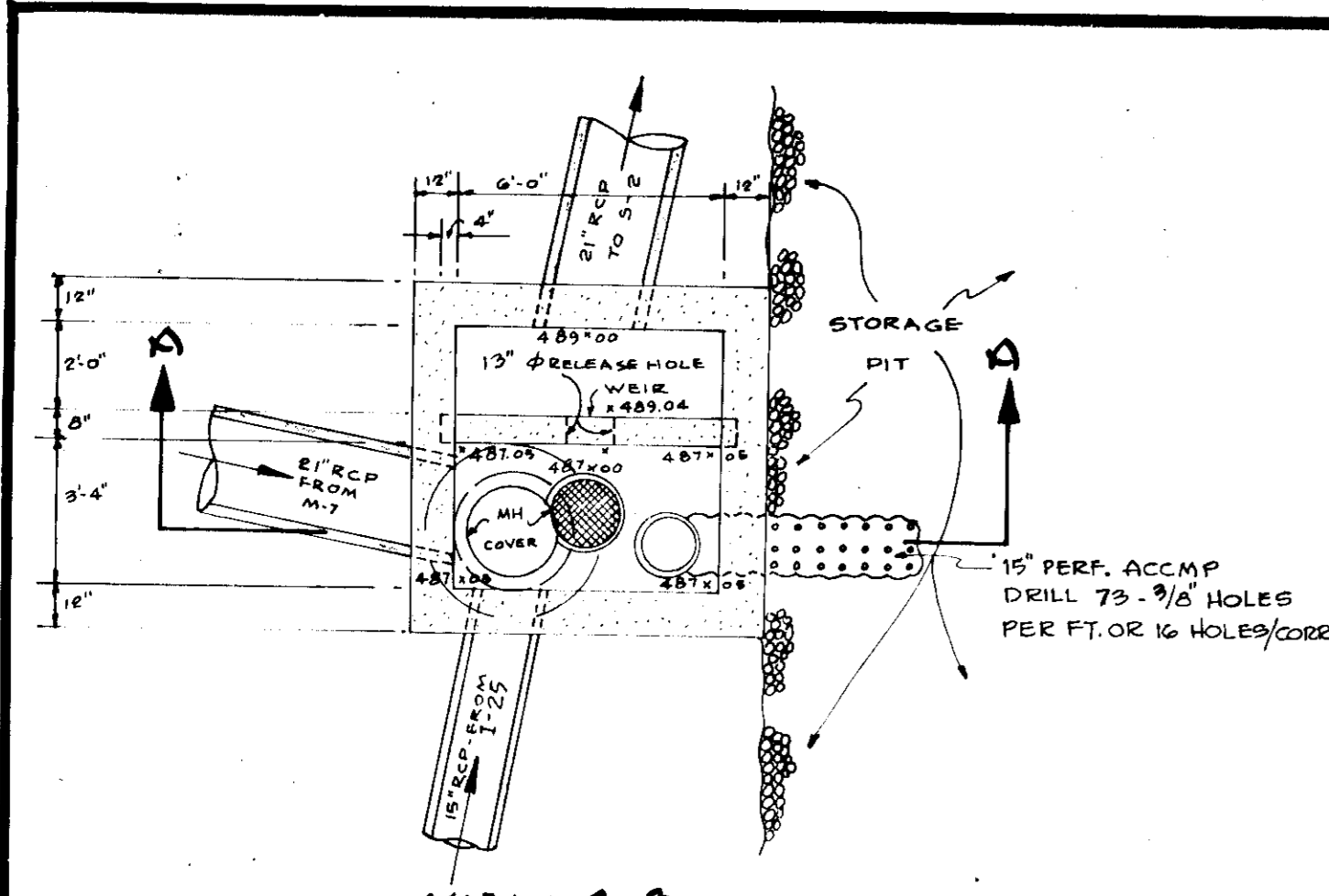
DETAILS

DRAWING NO. G-5
OF 8

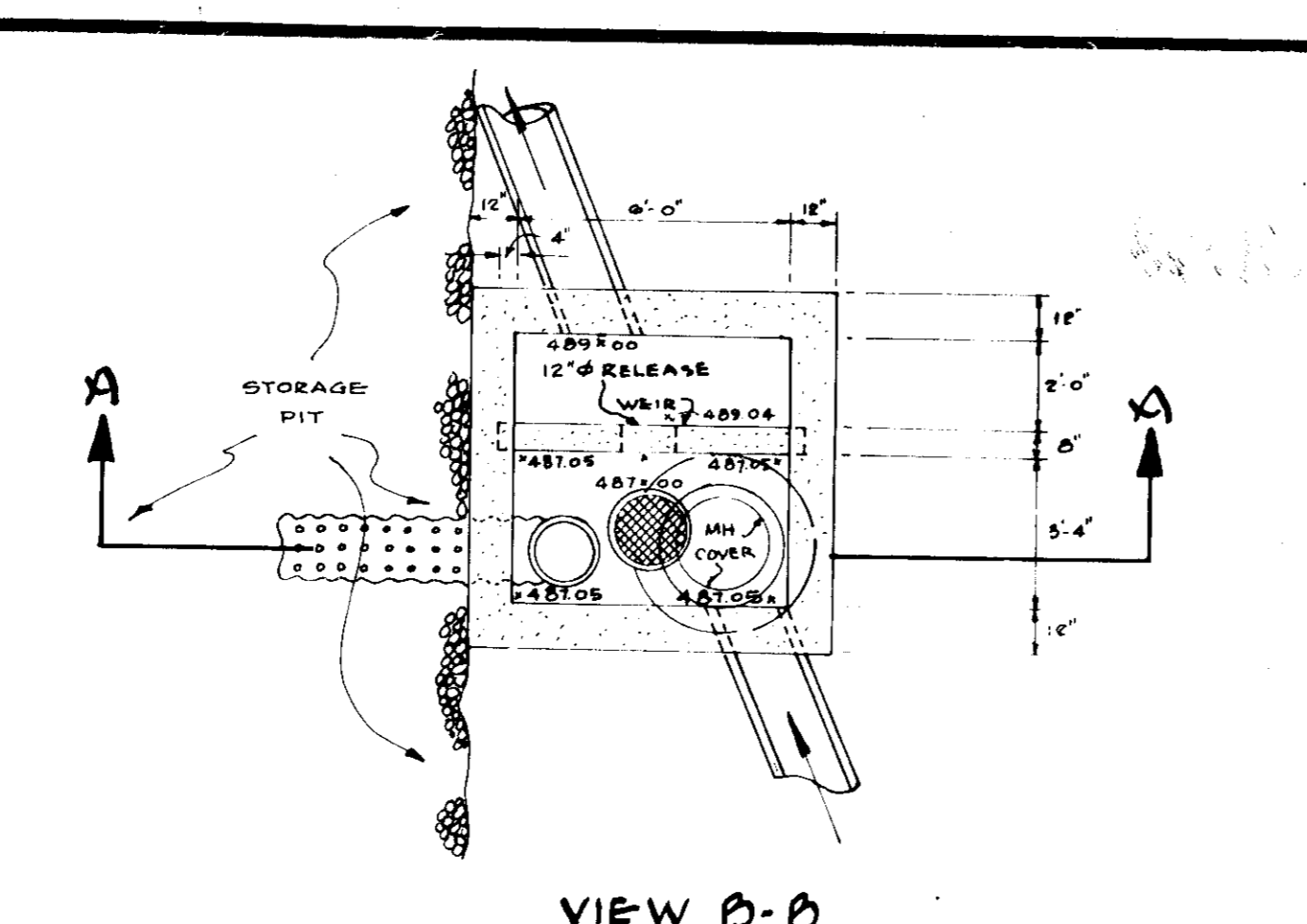
OWNER: BOARD OF EDUCATION, 8045 ROUTE 32
COLUMBIA, MARYLAND

DATE 10-7-76

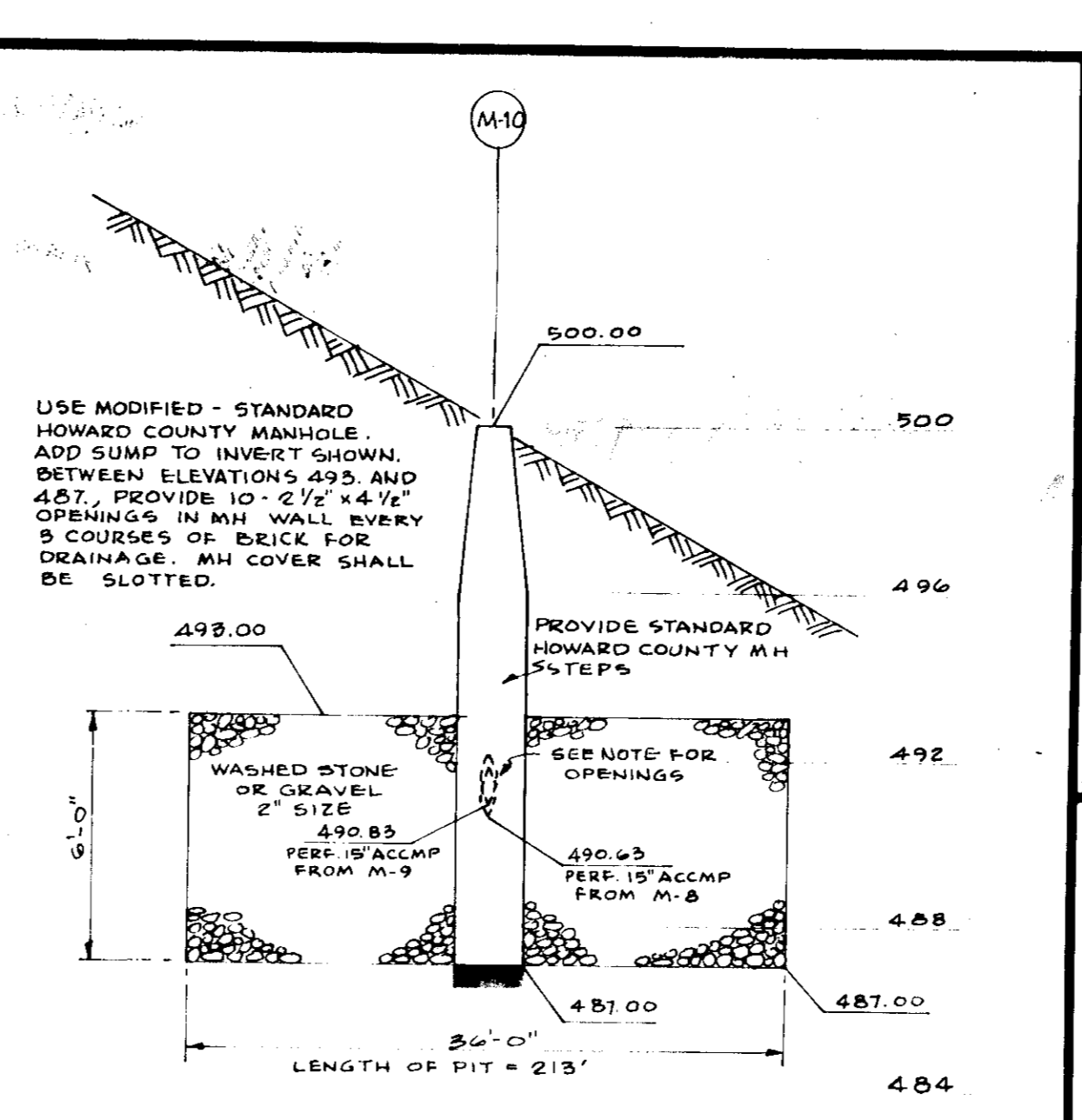
SCALE 1/8" = 1'-0"



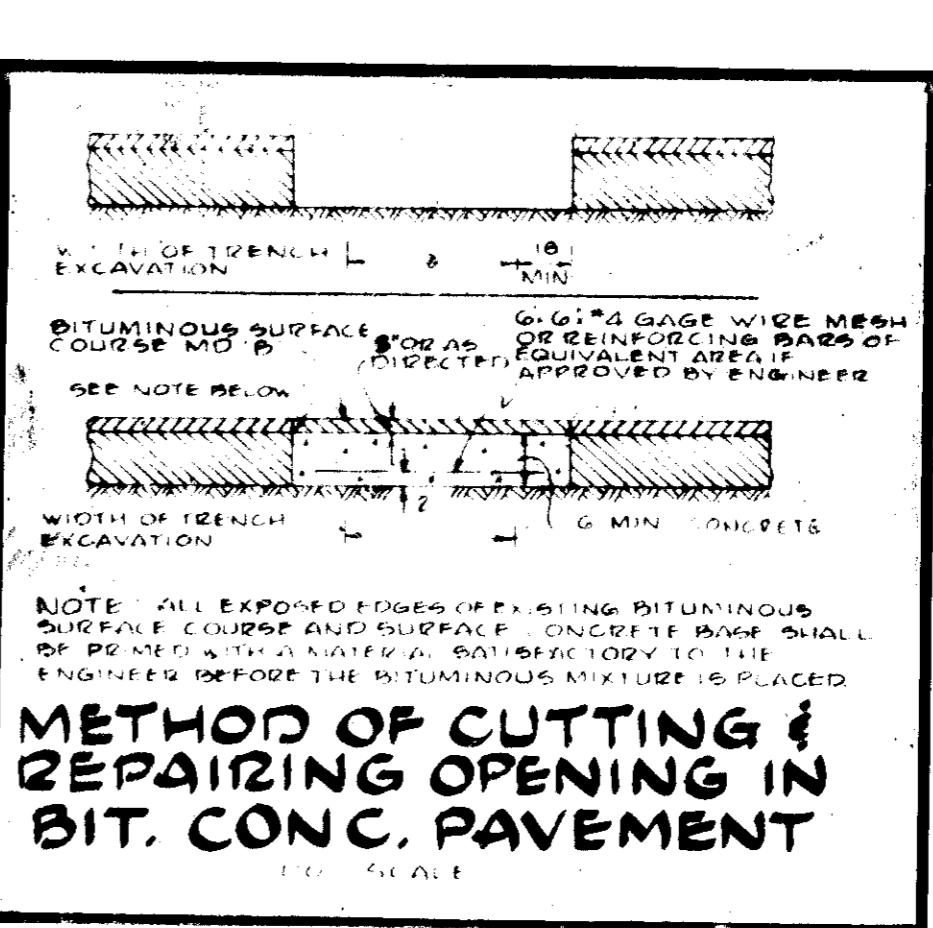
VIEW B-B



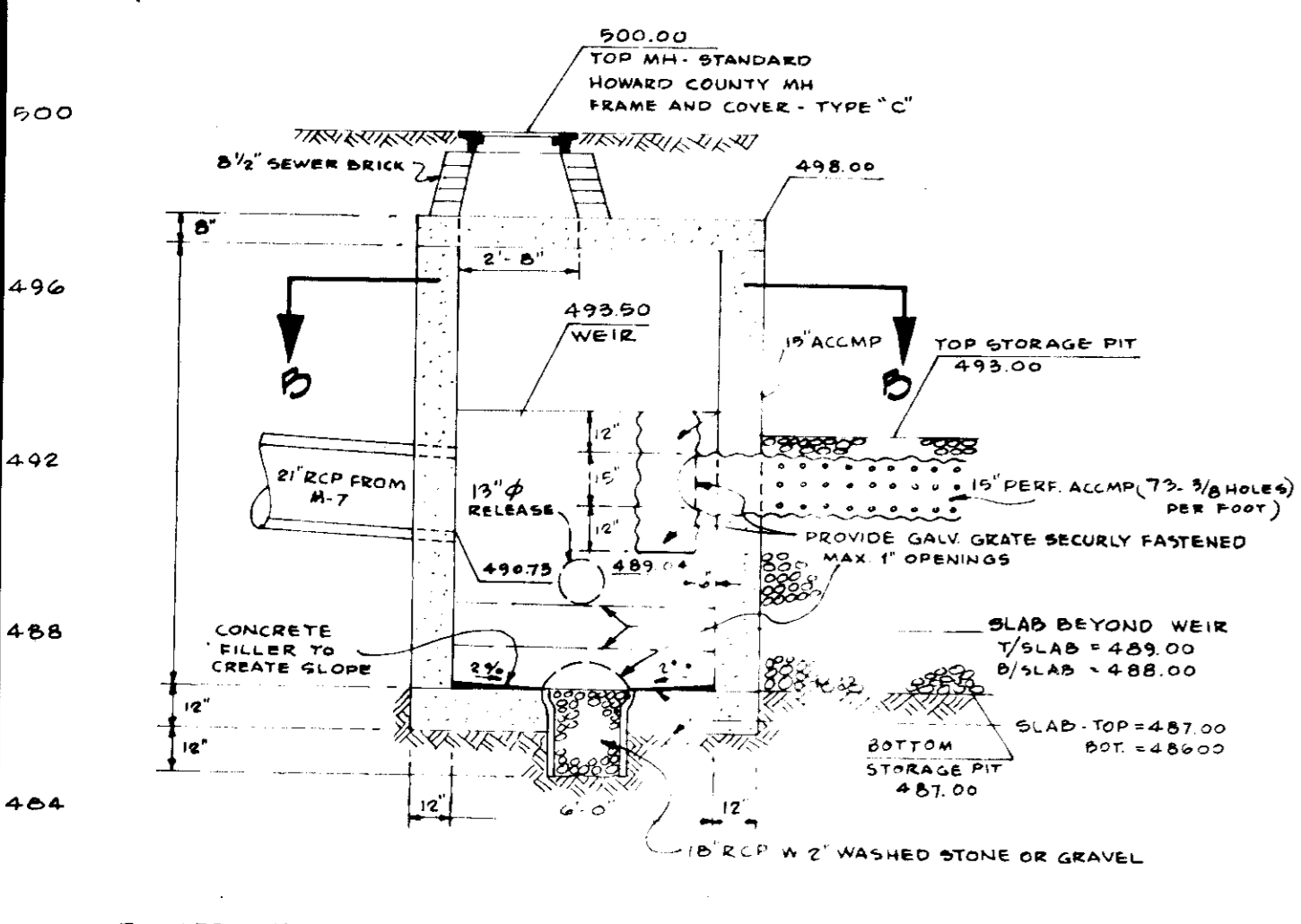
VIEW B-B



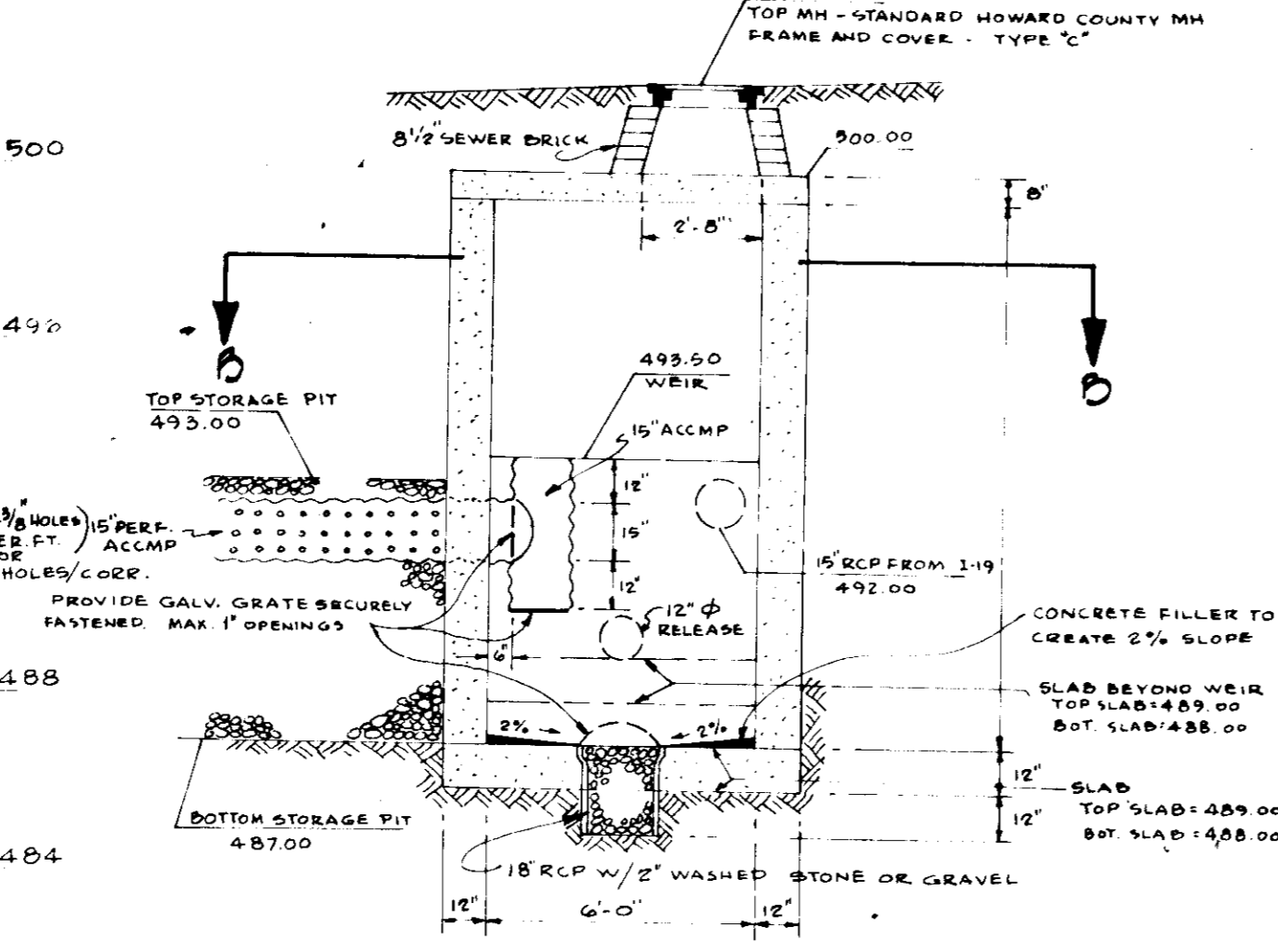
TYPICAL SECTION THRU STORAGE PIT AT MANHOLE 10
SCALE: 1"=10'; VERT. 1"=4'



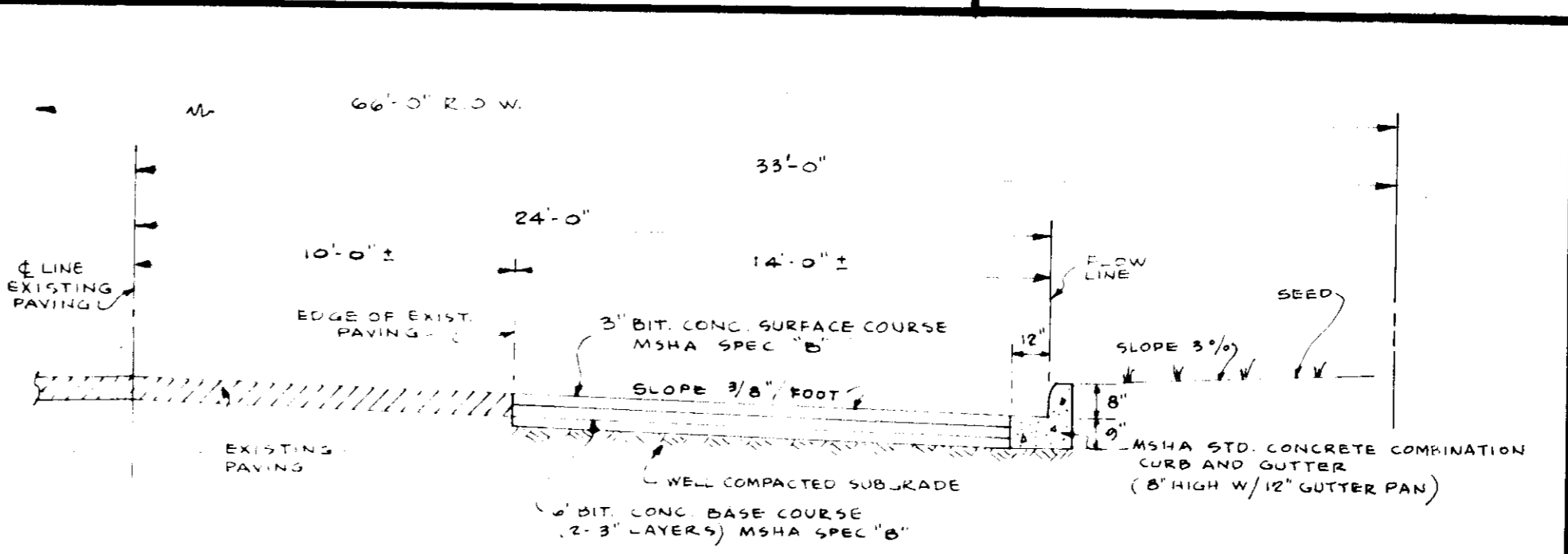
METHOD OF CUTTING & REPAIRING PAVEMENT IN BIT. CONC. PAVEMENT



CONTROL STRUCTURE M-8
SCALE: 1"=4'



CONTROL STRUCTURE M-9
SCALE: 1"=4'



TYPICAL PAVING SECTION IN FRONT OF SCHOOL WITHIN R.O.W. OF ROUTE # 144
SCALE: 1"=5' HORIZ.

Reviewed for HOWARD COUNTY
Name: Eric L. Herman Date: 11/1/76
and meets Technical Requirements

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
Joyce L. Bergano COUNTY HEALTH OFFICER DATE: 11-9-76

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas L. Harris PLANNING DIRECTOR DATE: 11-12-76

APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
P. J. Regard CHIEF BUREAU OF HIGHWAYS DATE: 11-9-76

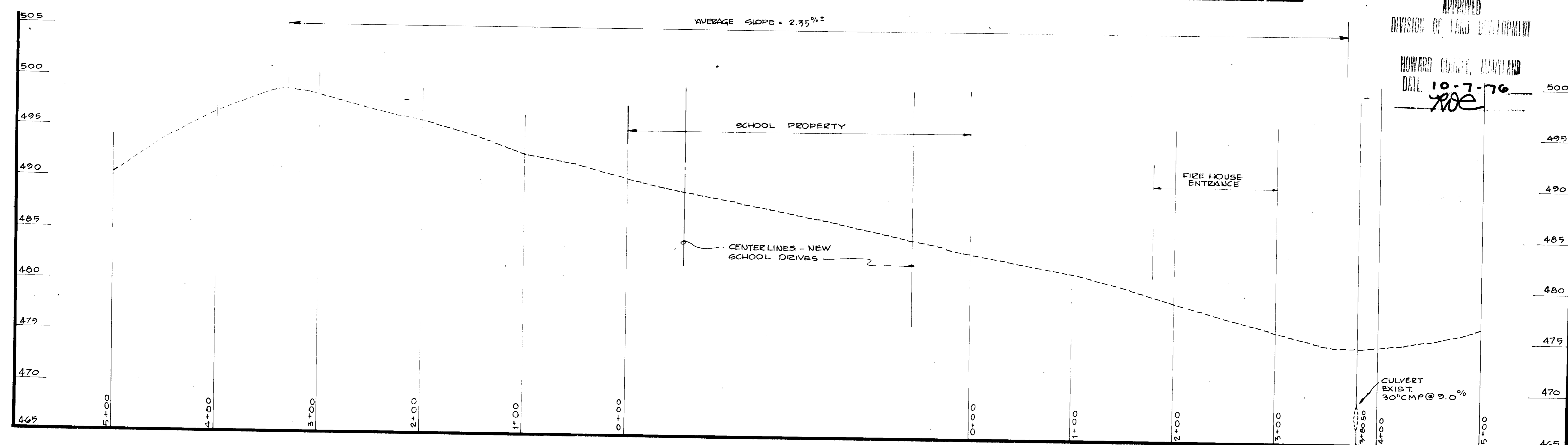
APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
D. W. Nelson CHIEF BUREAU OF HIGHWAYS DATE: 11-8-76

APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert Zelman HOWARD SOIL CONSERVATION DISTRICT DATE: 11/1/76

ASSOCIATED ENGINEERS, INC.
5505 SILVER SPRING STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-982-2311

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULFORD
ELECTRICAL ENGINEER

SARGENT & ASSOCIATES INC.
A R C O L L E C T S



CENTERLINE PROFILE ROUTE # 144 SCALES: HOR. - 1"=50' VERT. - 1"=5'

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 10-7-76
ROE

OWNER: BOARD OF EDUCATION, 8045 RTE. 92
COLUMBIA, MARYLAND

ROUTE # 144 ROAD AND PROFILES

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT # 3, TRAP 5
HOWARD COUNTY, MARYLAND

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULFORD
ELECTRICAL ENGINEER

DRAWING NO.

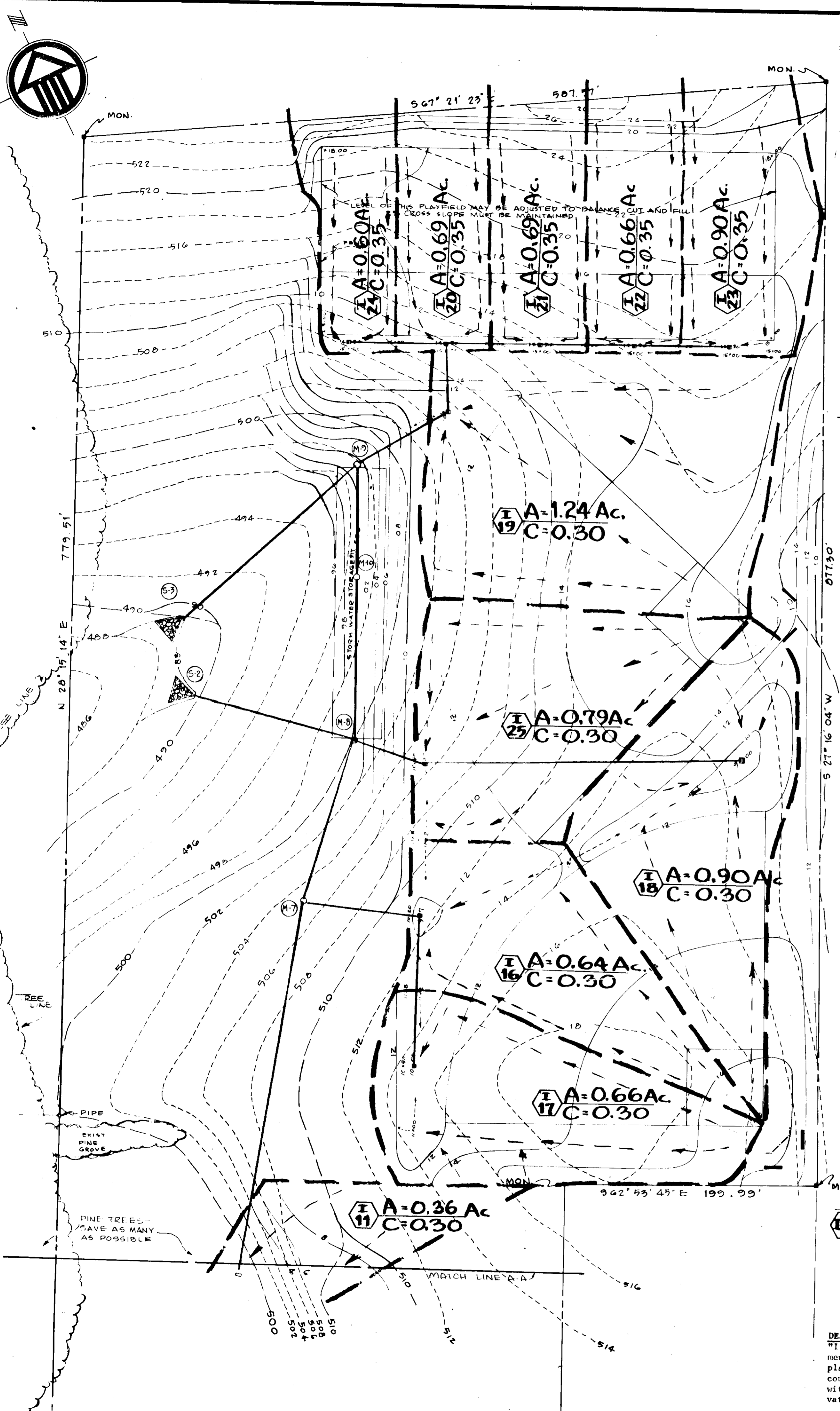
G-6

7 OF 8

Rev. 8-31-76 due to Stormwater Management
Addition and Relocation of Septic Field.

AEI JOB NO. 2006-A

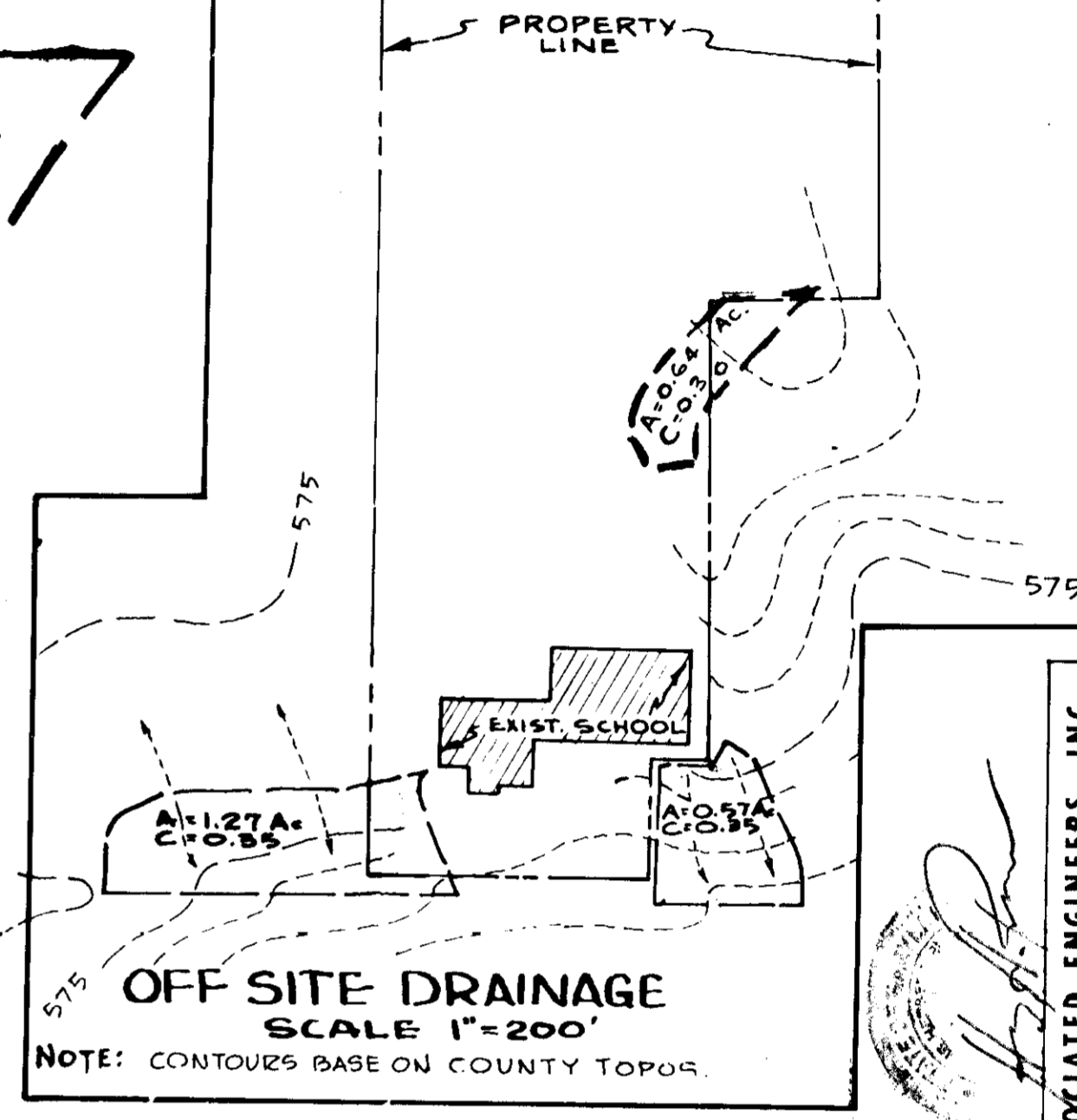
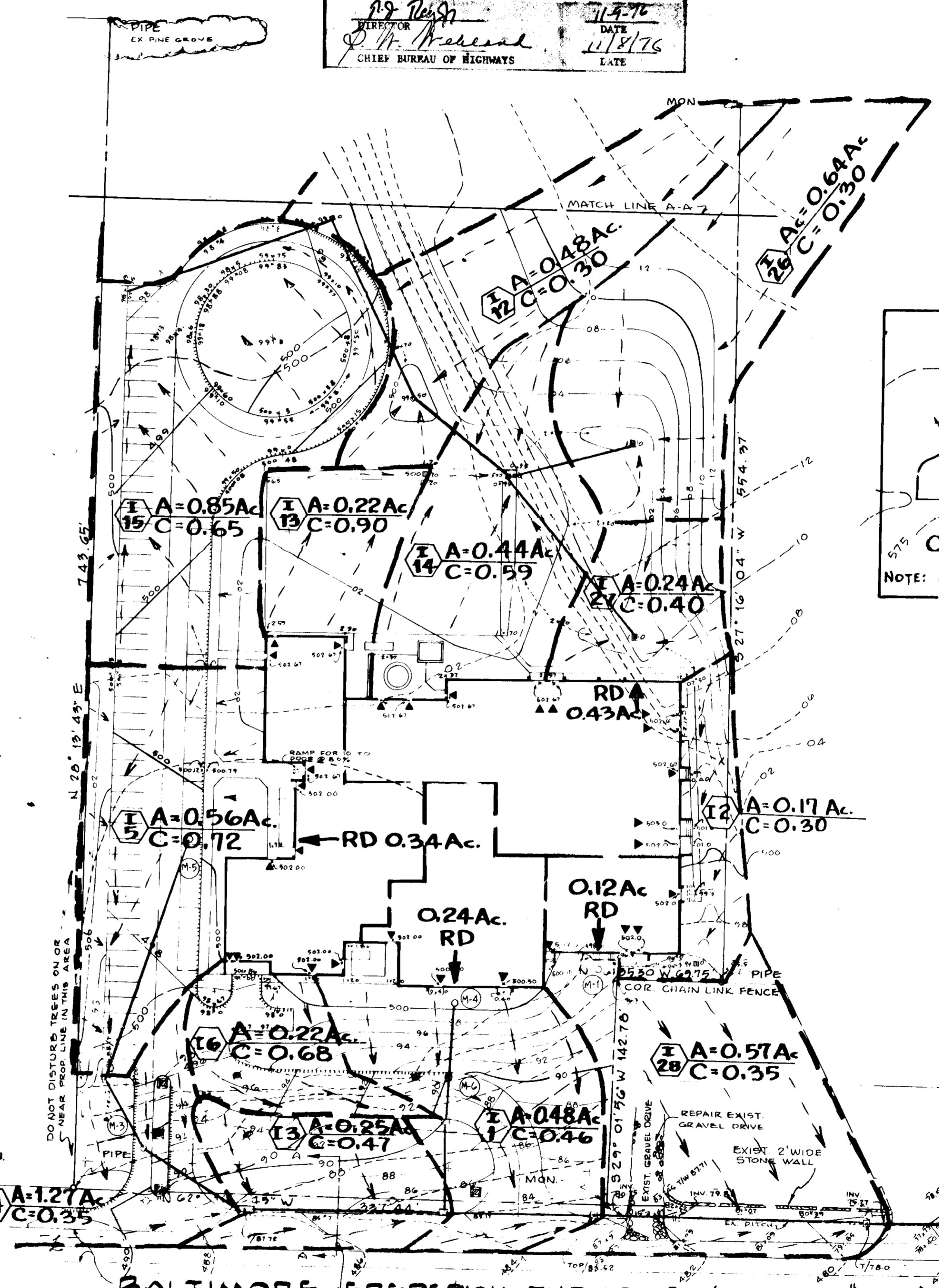
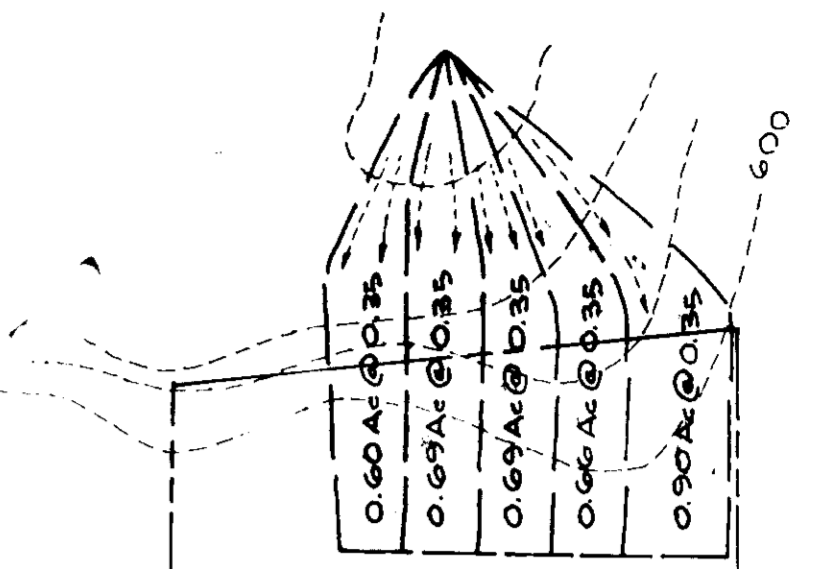
SDP-76-96



Reviewed for HOWARD S.C.D.
and meets Technical Requirements
Eric V. Herman Date 11/1/76
Signature
U.S. Soil Conservation Service

APPROVED, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
[Signature] DATE 11-1-76
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
[Signature] DATE
CHIEF DIVISION OF LAND DEVELOPMENT
DATE
APPROVED FOR STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
[Signature] DATE 11/8/76
DIRECTOR
[Signature] DATE 11/8/76
CHIEF BUREAU OF HIGHWAYS

DRAINAGE DIVIDES LEGEND
DRAINAGE DIVIDES
FLOW DIRECTION
AREA
COEFFICIENT OF RUN-OFF
DRAINAGE DIVIDE DESIGNATION AND INLET NO.



DESIGN CERTIFICATION
"I certify that this plan for Erosion and Sediment Control represents a practical and verifiable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
[Signature] Date 6-17-76

DEVELOPER'S CERTIFICATION
"I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County 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.
[Signature] Date 10/26/76

APPROVED [Signature] DATE 11/1/76
HOWARD S.C.D.

OWNER: BOARD OF EDUCATION, 8075 ROUTE 17
COLUMBIA, MARYLAND

DRAINAGE DIVIDES

ADDITIONS & ALTERATIONS
WEST FRIENDSHIP
ELEMENTARY SCHOOL
ELECTION DISTRICT 13 TAX MAP 15
HOWARD COUNTY, MARYLAND

DRAWING NO.
DD-1
8
OF 8

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULFORD
ELECTRICAL ENGINEER

ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
KELLER & MARCHIGIANI
STRUCTURAL ENGINEERS
RICHARD L. LUTZ
MECHANICAL ENGINEER
HARRY G. FULFORD
ELECTRICAL ENGINEER

SARGENT & ASSOCIATES INC
ARCHITECTS
10605 CONCORD ST. KENSINGTON, MD. 21115
933.1358