

SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT, THE BUREAU OF INSPECTION, LICENSE AND PERMITS (PHONE: 992-2436) AND THE WATER RESOURCES ADMINISTRATION-ENFORCEMENT DIVISION (PHONE: 301-269-2265) PRIOR TO STARTING ANY WORK.
- 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 SOIL CONSERVATION DISTRICT, ARCHITECT AND WATER RESOURCES ADMINISTRATION-ENFORCEMENT DIVISION MUST BE OBTAINED.
- PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AND FEATURES MUST BE PROVIDED IN ORDER TO INSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED.
- TEMPORARY BERMS AND DIKES SHALL BE COMPACTED BY SEVERAL PASSES WITH THE CONSTRUCTION EQUIPMENT. BERMS SHALL BE STABILIZED IMMEDIATELY BY USING THE FOLLOWING RATES: 1 TON OF LIME, PER ACRE, 500 LBS. OF 5-10-10 FERTILIZER PER ACRE, 1.5 TONS OF MULCH AND 40 LBS. OF RYE GRASS PER ACRE.
- ALL DIKES MUST HAVE POSITIVE GRADE TO AN OUTLET.
- FIELD LOCATIONS OF DIKES SHALL BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- DIVIDED RUNOFF MUST OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA.
- 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. SEE NOTE 15.
- TOPSOIL SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES OF THE MARYLAND STATE HIGHWAY ADMINISTRATION.
- TOPSOIL SHALL BE MINIMUM 6 INCHES THICK (COMPACTED) AND BE PLACED TO FINISHED GRADE FOR SEEDED AREAS. PROPER ALLOWANCE IN FINISHED GRADE SHALL BE MADE FOR SODDED AREAS. ALL EXISTING TOPSOIL SHALL BE REUSED ON THE SITE.
 - LIME SHALL BE SPREAD AT A RATE OF 100 LBS. PER 1,000 SQUARE FEET. SEE SPECIFICATIONS SECTION 2J.
 - FERTILIZER COMPOSITION AND RATE OF APPLICATION SHALL BE DETERMINED BY SOIL TESTS. SEE SPECIFICATIONS SECTION 2J.
 - MIXTURE FOR PERMANENT SEEDING SHALL BE 5% KENTUCKY 31 TALL FESCUE, 15% SPUR TOP, 15% BLUEGRASS OR PERMANENT BERMGRASS. THE RATE OF APPLICATION SHALL BE 4 LBS. PER 1,000 SQUARE FEET. SEE SPECIFICATIONS SECTION 2J.
 - IMMEDIATELY AFTER SEEDING THE AREA SHALL BE UNIFORMLY MULCHED AT A RATE OF 3000 LBS. PER ACRE, ANCHORED BY THE CRIMPED MULCH METHOD.
- FOR SODDED AREAS, THE SOD SHALL BE LAD TO A BECH FEE AND ROLLED IN ORDER TO KNOT TO THE SOIL. SODDED AREAS SHALL BE KEPT WATERED TO ENSURE ROOTING TO THE SOIL BELOW.
- NO PERMANENT SLOPES SHALL BE STEEPER THAN 3:1. ALL SLOPES 4:1 AND STEEPER SHALL BE PEGGED.
- NO TEMPORARY SEDIMENTATION MEASURES ARE TO BE REMOVED WITHOUT PERMISSION BY THE SOIL CONSERVATION DISTRICT AND ONLY JUST PRIOR TO STABILIZATION OF TRIBUTARY AREAS.
- ON SWALES 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.
- REFER TO CONTRACT SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR SUBGRADE AND FINISHED GRADE SOIL PREPARATION, SEED AND SODDING. WHERE ANY CONFLICT APPEARS BETWEEN SPECIFICATIONS AND NOTES, SPECIFICATIONS SHALL GOVERN IN ALL CASES SINCE SPECIFICATIONS MEET OR EXCEED REQUIREMENTS IN NOTES.

SITE INFORMATION

OWNER: BOARD OF EDUCATION
HOWARD COUNTY, MARYLAND
8045 ROUTE 32, COLUMBIA, MD.
LOCATION: 7335 OAKLAND MILLS ROAD
JESSUP, MARYLAND 20794
PROPERTY RECORDED: LIBER: 244 FOLIO: 323; TAX MAP 42, PARCEL 39; ZONING: R-20
AREA OF PROPERTY: 11.0 ACRES

SITE ANALYSIS

TOTAL AREA OF PROPERTY:	11.00 Acres
Existing Building	0.52 Acres
Existing Paving	0.91 Acres
Existing Paving to be Removed	0.91 Acres
Paving Addition	1.99 Acres
Building Addition	0.60 Acres
Disturbed Area of Property	10.64 Acres
Undisturbed Area of Property	0.36 Acres

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 Howard County Soil Conservation District.

Signature: *Ed Penner* Date: August 8, 1980
Professional Seal: EDWARD PENNER, PROFESSIONAL LAND DEVELOPER

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 County Soil Conservation District.

Signature: *Donald J. Begany* Date: 8-11-80

CONSTRUCTION SEQUENCE:

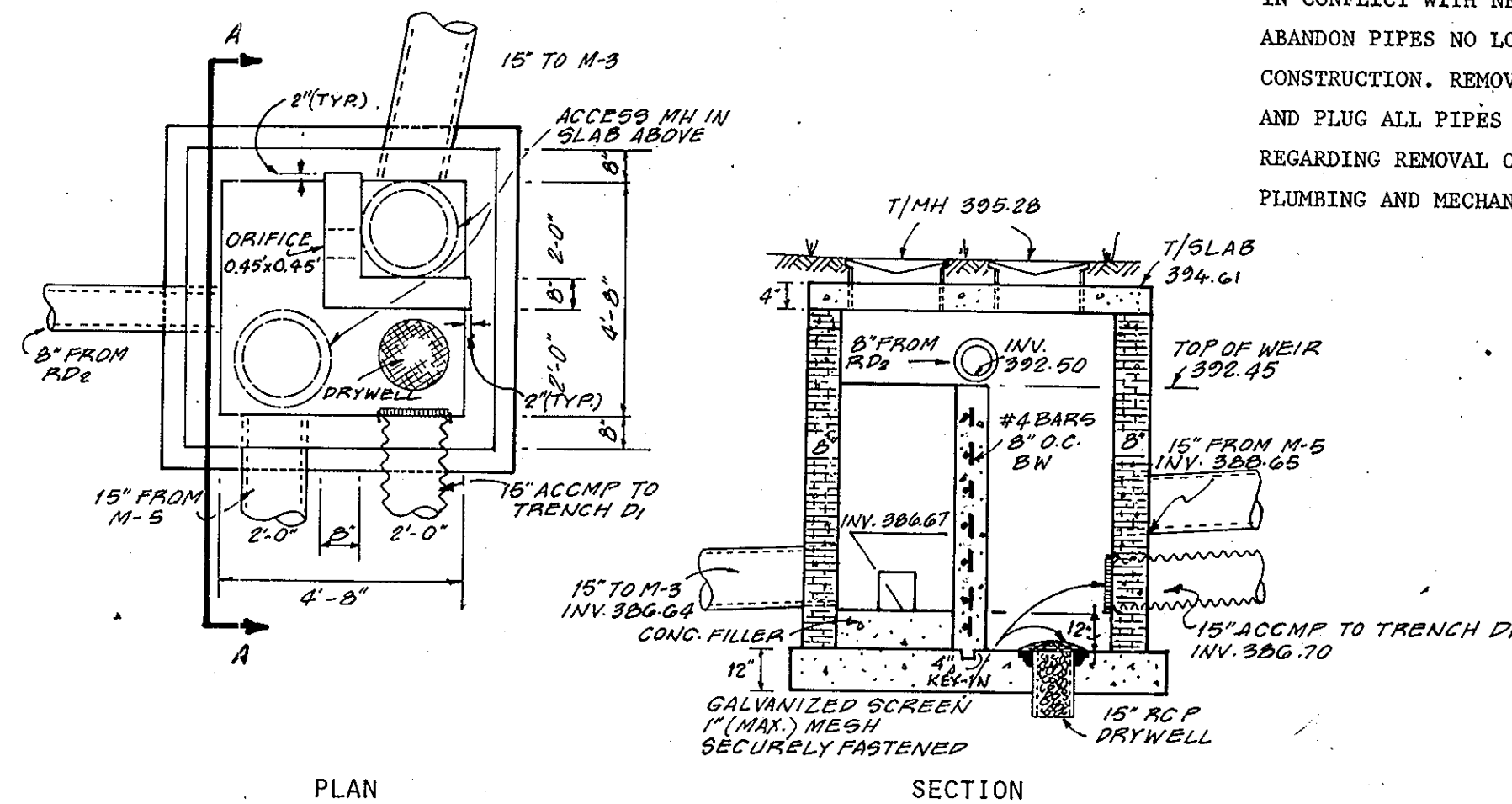
- INSTALL STABILIZED CONSTRUCTION ENTRANCE ON FILTER CLOTH.
- INSTALL SILT FENCE OR STRAW BALE/HAY DIKES.
- CONSTRUCT PERIMETER DIKE WITH STONE OUTFALL SEDIMENT TRAPS A, B, AND C AND STABILIZE.
- START DEMOLITION, STRIPPING AND GRADING; ACCOMPLISH ROUGH GRADING.
- COMMENCE BUILDING CONSTRUCTION.
- CONSTRUCT ALL STORM SEWER PIPE AND STRUCTURES; CAP OR TRAP INLETS AS SHOWN ON TRAP SCHEDULE.
- INSTALL THREE (3) STORMWATER STORAGE TRENCHES LINED WITH FILTER CLOTH. TAKE PRECAUTIONS THAT NO SEDIMENT AND DEBRIS ENTER STONE IN TRENCHES.
- INSTALL OTHER UTILITIES.
- CONSTRUCT CONCRETE CURB AND GUTTER, WALKS AND BITUMINOUS CONCRETE BASE COURSE.
- FINE GRADE DISTURBED UNPAVED AREAS AND STABILIZE.
- AFTER STABILIZATION IS EFFECTIVE WITH THE PERMISSION OF THE SOIL CONSERVATION DISTRICT REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE ALL REMAINING DISTURBED UNPAVED AREAS.
- CONSTRUCT BITUMINOUS CONCRETE SURFACE COURSE.
- CLEAN UP SITE AND START REQUIRED MAINTENANCE.

GENERAL NOTES:

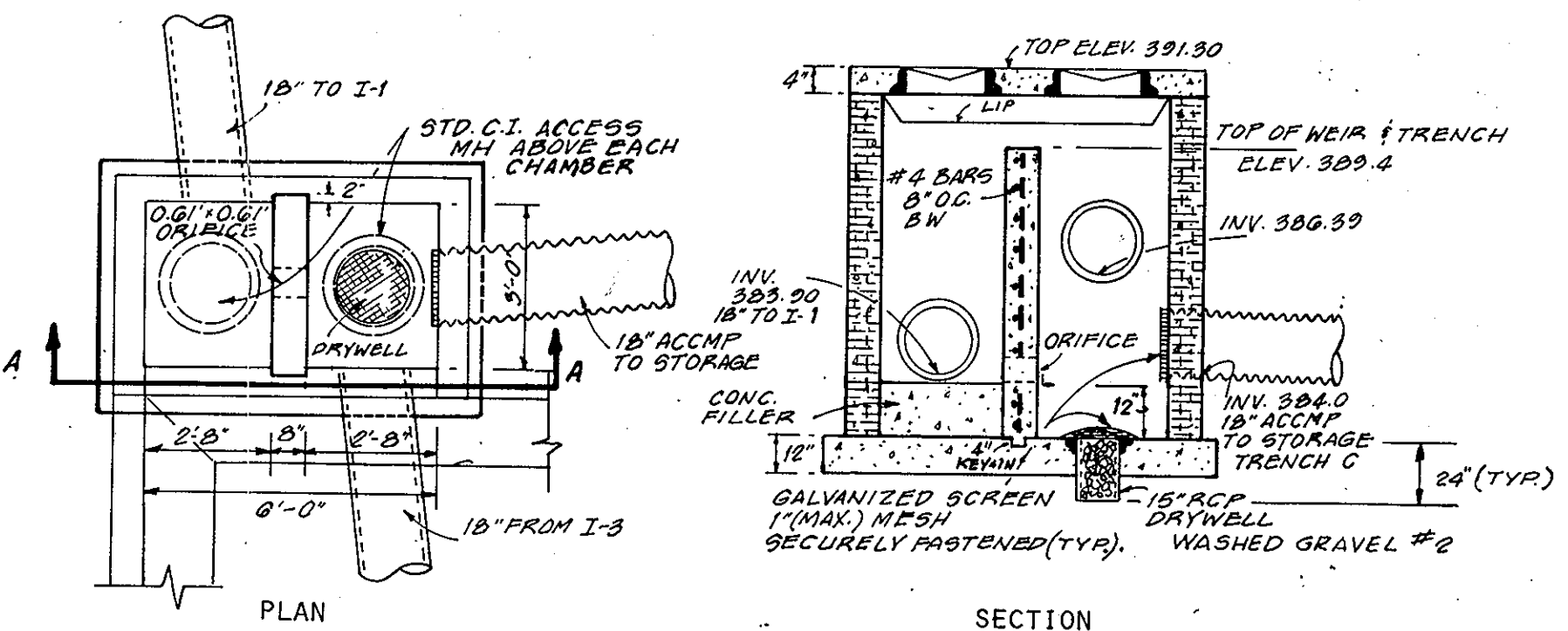
- FOR BUILDING DIMENSIONS AND ADDITIONAL DETAILS REFER TO ARCHITECTURAL DRAWINGS.
- FOR SANITARY SEWER, WATER, AND ROOF DRAINS, REFER TO MECHANICAL PLANS.
- FOR ALL ELECTRICAL WORK REFER TO ELECTRICAL PLANS.
- ALL DISTURBED, UNPAVED AREAS TO BE TOPSOILED, FERTILIZED, LIMED, SEEDED AND MULCHED, UNLESS SHOWN SODDED. SLOPES 3 TO 1 AND STEEPER TO BE SODDED.
- 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".
- 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.
- ALL EXPOSED PORTIONS OF CHANNELS, FRAMES AND GRATES OF STORM DRAINAGE STRUCTURES SHALL RECEIVE TWO COATS OF AN APPROVED PAINT.
- ALL STRUCTURES HAVING A DEPTH OF 3 FEET OR MORE SHALL HAVE C.I. MANHOLE STEPS, STAGGERED AT 12" O.C.
- STANDARD CURB AND GUTTER FOR DRIVES AND PARKING AREA ON SITE TO BE HOWARD COUNTY STANDARD 7" COMBINATION CURB AND GUTTER. CURBS WILL BE PAINTED RED ALONG FIRE LANES AND YELLOW FOR NO PARKING ELSEWHERE.
- CONTACT "MISS UTILITY" AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION.
- EXISTING TOPOGRAPHY BASED ON SURVEY PERFORMED BY ASSOCIATED ENGINEERS, INC., SILVER SPRING, MARYLAND. BENCHMARK USED IS SHOWN ON PLAN. BOUNDARY IS BASED ON DEED INFORMATION FURNISHED.
- FITCH GUTTER OF CURBS TO CONFORM TO ADJACENT DRAINAGE PATTERN.
- THICKNESS OF TOPSOIL SHALL BE 6 INCHES (COMPACTED).
- WHERE STORM SEWER PIPES ARE PLACED IN FILL AREAS, THE FILL SHALL BE COMPACTED TO 95% ITS MAXIMUM DENSITY.
- EXISTING CONDITIONS BASED ON TOPOGRAPHIC SURVEY ENTITLED "GUILFORD ELEMENTARY SCHOOL" DATED MAY 18, 1979 AND REVISED JULY 17, 1979 AS PREPARED BY HUDKINS ASSOCIATES, COLUMBIA, MARYLAND. BENCHMARK USED: BM #1 - TOP OF FIRE HYDRANT, EAST SIDE OAKLAND MILLS ROAD, NORTH SIDE SCHOOL ENTRANCE ROAD - ELEVATION 396.18. BM #2 - 3/4" IRON ROD, 36.31' OFF SOUTHWEST CORNER SCHOOL BUILDING - ELEVATION 394.76.
- ADJUST ALL MANHOLES, VALVE BOXES, INLETS, ETC. TO FINISH GRADES.

DEMOLITION NOTES REGARDING EXISTING UTILITIES:

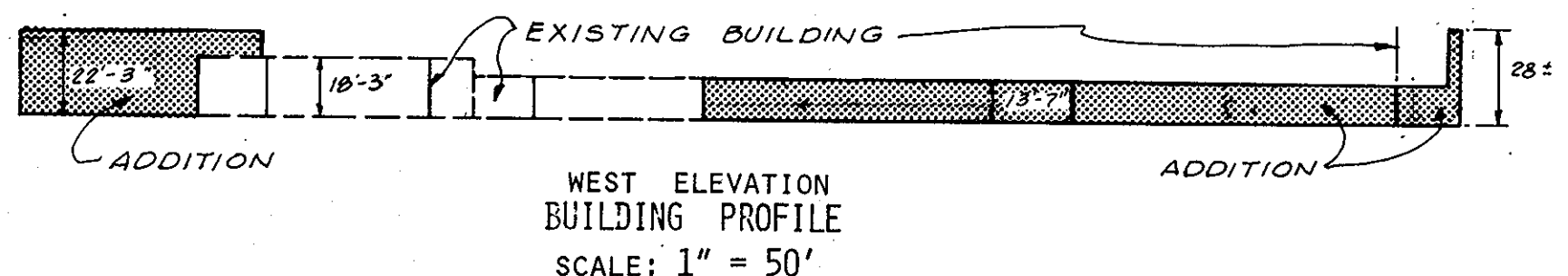
SEPTIC HOLDING TANKS: PUMP OUT, SEAL OUTLET AND INLET PIPES AND FILL TANKS WITH SAND OR GRAVEL. WATER WELL ABANDON OR REMOVE IF IN CONFLICT WITH NEW CONSTRUCTION.
ABANDON PIPES NO LONGER IN USE OR REMOVE IF IN CONFLICT WITH NEW CONSTRUCTION. REMOVE REMAINING MECHANICAL EQUIPMENT (FUEL TANK ETC.) AND PLUG ALL PIPES NO LONGER IN USE. FOR ADDITIONAL INFORMATION REGARDING REMOVAL OR ABANDONMENT OF EXISTING UTILITIES REFER TO PLUMBING AND MECHANICAL DRAWINGS.



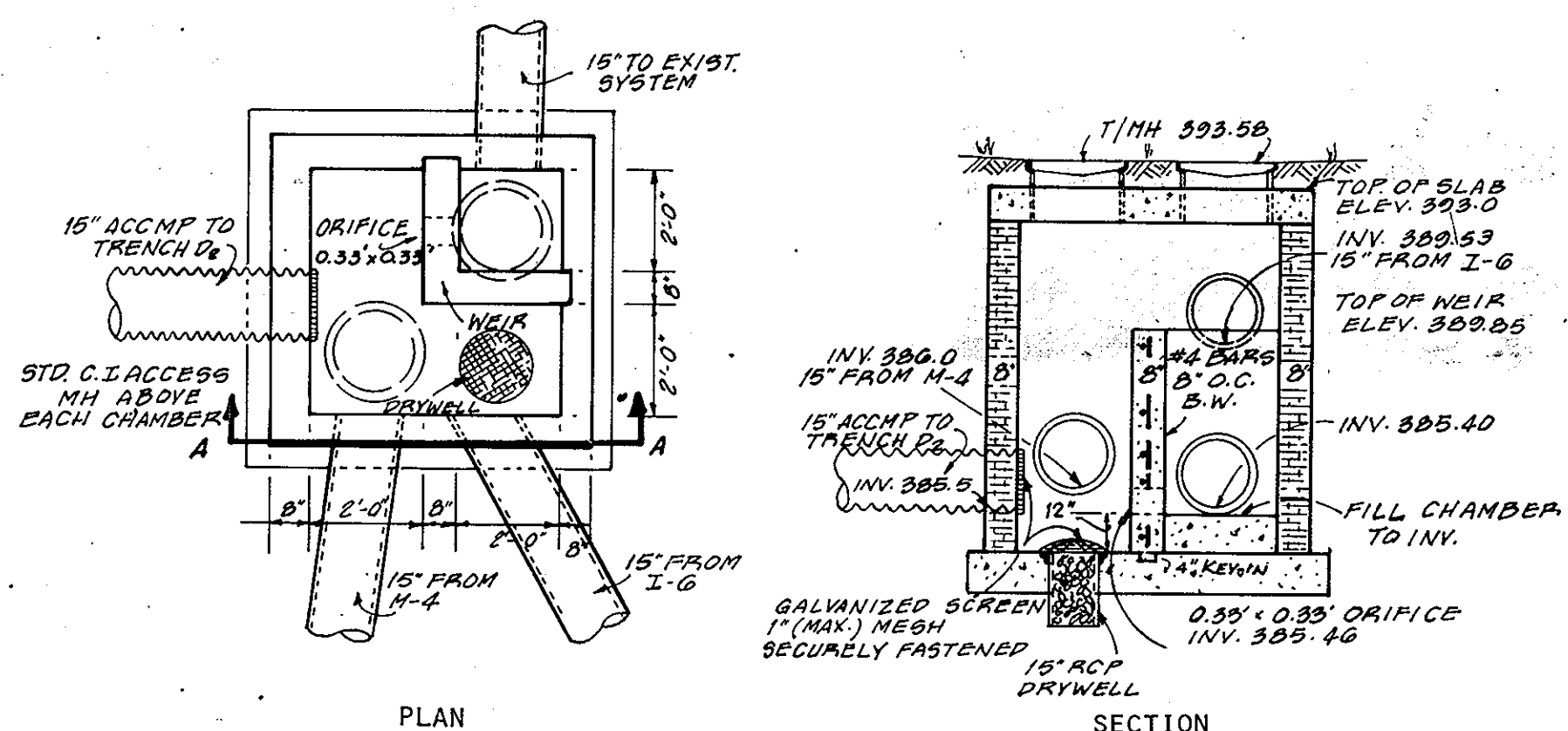
SPECIAL MANHOLE M-4
STORMWATER MANAGEMENT CONTROL STRUCTURE AT STORAGE TRENCH D-1
FOR DETAILS NOT SHOWN REFER TO MANHOLE DETAIL, DRAWING G-4, 5 OF 7
SCALE 1" = 4'



MODIFIED A-5 INLET I-2
STORMWATER MANAGEMENT CONTROL STRUCTURE AT STORAGE TRENCH C
FOR DETAILS NOT SHOWN REFER TO HOWARD COUNTY STANDARD CLASS A-INLET, DRAWING 64-A
SCALE 1" = 4'



WEST ELEVATION BUILDING PROFILE
SCALE: 1" = 50'



SPECIAL MANHOLE M-3
STORMWATER MANAGEMENT CONTROL STRUCTURE AT STORAGE TRENCH D-2
FOR DETAILS NOT SHOWN REFER TO MANHOLE DETAIL, DRAWING G-4, 5 OF 7
SCALE 1" = 4'

Reviewed for: *Howard* S.C.D.
Name

and meets Technical Requirements

Signature: *Howard* Date: 8-20-80
U.S. Soil Conservation Service

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

Approved: *Howard* Date: 8-20-80
Howard S.C.D.

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

Signature: *Howard* Date: 8-29-80
COUNTY HEALTH OFFICER

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Signature: *Howard* Date: 9-2-80
PLANNING DIRECTOR

Signature: *Howard* Date: 9-2-80
CHIEF DIVISION OF LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: *Howard* Date: 8-26-80
DIRECTOR

Signature: *Howard* Date: 8/26/80
CHIEF BUREAU OF ENGINEERING

LIST OF CONTRACT DRAWINGS PERTAINING TO SITE WORK

- G-0 COVER SHEET, NOTES AND DETAILS
- G-1 GRADING PLAN
- G-2 LAYOUT PLAN AND PROFILES
- G-3 SEDIMENT CONTROL PLAN
- G-4 DETAILS
- G-5 DETAILS

LIST OF SUPPORTING DATA

- DD-1 DRAINAGE DIVIDES
- 7 OF 7 DRAINAGE COMPUTATIONS
- 10 OF 10 STORMWATER MANAGEMENT COMPUTATIONS

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-9-80

SDP-80-136
Guilford Elementary School Renovation
Howard County Public Schools
6TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39
COVER SHEET, NOTES AND DETAILS

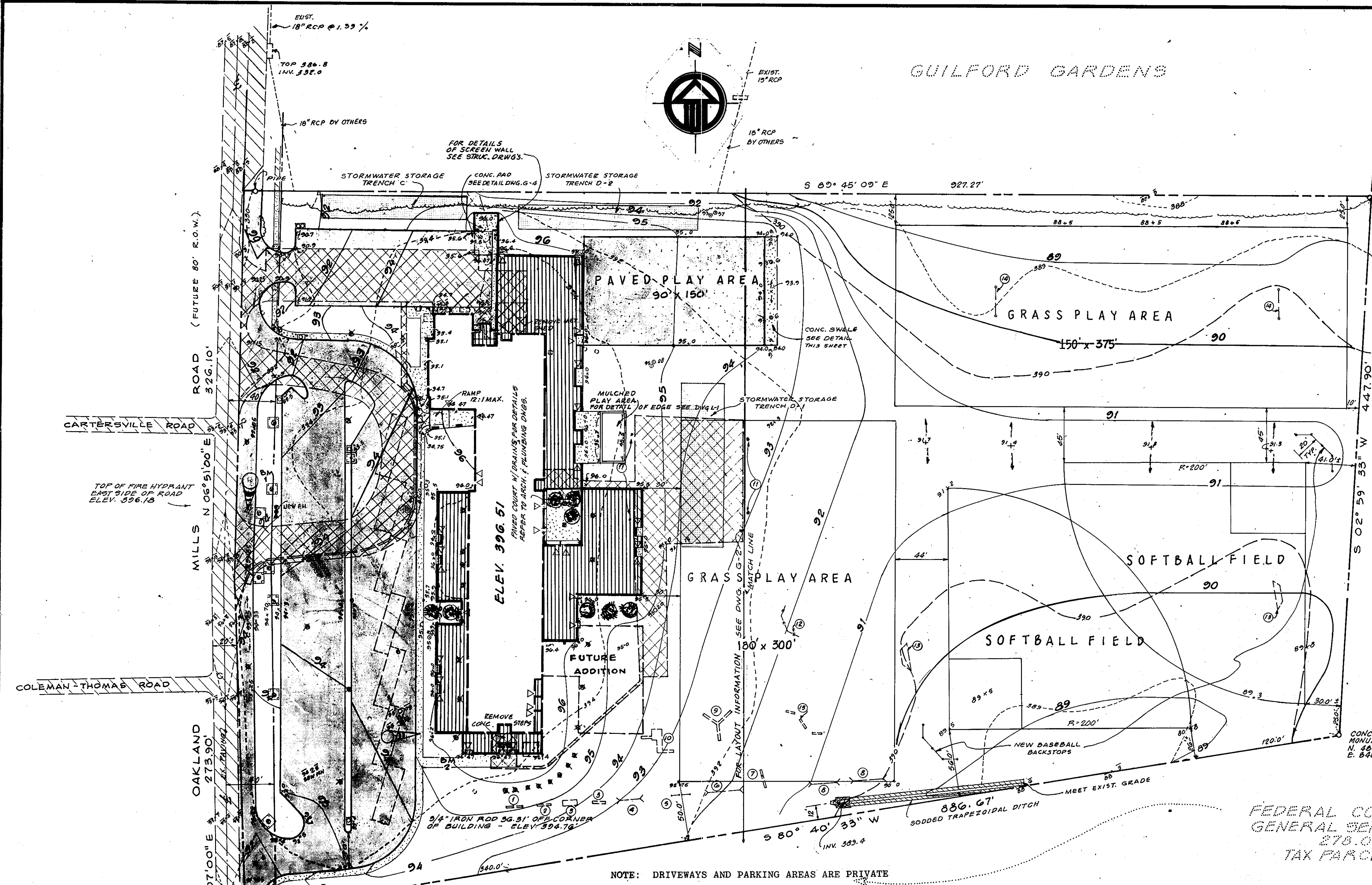
Abrash Eddy & Eckhardt Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336

SCALE: AS SHOWN
DATE: 6/13/80
REV. B. 8.80
G-0
SDP-80-136
I OF 7

ASSOCIATED ENGINEERS, INC.
8555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-569-7311

OWNER: BOARD OF EDUCATION
HOWARD COUNTY, MARYLAND
8045 ROUTE 32, COLUMBIA, MD.

GUILFORD GARDENS



TRENCH	DIMENSIONS (FT.)			VOLUME REQUIRED (CU. FT.)	ACTUAL STORAGE (CU. FT.)	TOP TRENCH ELEVATION	BOTTOM TRENCH ELEVATION
	L	W	D				
C	120.0	19.0	5.2	11,840	11,856	389.40	384.20
D-1	136.0	36.0	5.6	27,417	27,417	392.45	386.85
D-2	148.0	20.0	4.2	12,432	12,432	389.85	385.65

- LEGEND:
- 992--- EXISTING CONTOUR
 - 50.7 EXISTING SPOT GRADES
 - 94 DESIGN CONTOUR
 - 90.9 DESIGN SPOT GRADES
 - [Pattern] EXISTING PAVING TO REMAIN
 - [Pattern] EXISTING PAVING TO BE REMOVED
 - [Pattern] NEW BITUMINOUS CONCRETE PAVING
 - [Pattern] NEW CONCRETE CURB AND GUTTERS
 - [Pattern] STORMWATER MANAGEMENT TRENCH
 - [Pattern] NEW CONCRETE WALK OR SLAB
 - [Symbol] STORM DRAIN STRUCTURES
 - [Symbol] EXISTING TREES TO BE REMOVED
 - [Symbol] EXISTING STORM DRAIN
 - [Symbol] NEW BUILDING ADDITION
 - [Symbol] TEMPORARY TREE PROTECTION
 - [Symbol] EDGE OF EXISTING WOODED AREA
 - [Symbol] DIRECTION OF DRAINAGE FLOW
 - [Symbol] EXISTING PLAYGROUND EQUIPMENT (SEE SCHEDULE)
 - [Symbol] NEW BASEBALL BACKSTOP - SEE SPECIFICATIONS (2 REQ.)
 - [Symbol] NEW TREES - SAUCER MAGNOLIA, 4" CALIPER (MAGNOLIA SAULANGEANA) (8 REQ.)

"WATER AND SEWER SERVICE TO THIS DEVELOPMENT WILL BE GRANTED UNDER THE PROVISION OF SECTION 18.122B OF THE HOWARD COUNTY CODE".

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
James M. ... Date 8-20-80
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved Robert Z... Date 8-20-80
Howard S.C.D.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-9-80
JMM

NOTE: DRIVEWAYS AND PARKING AREAS ARE PRIVATE

SCALE: 1" = 50'

SCHEDULE OF EXISTING PLAYGROUND EQUIPMENT

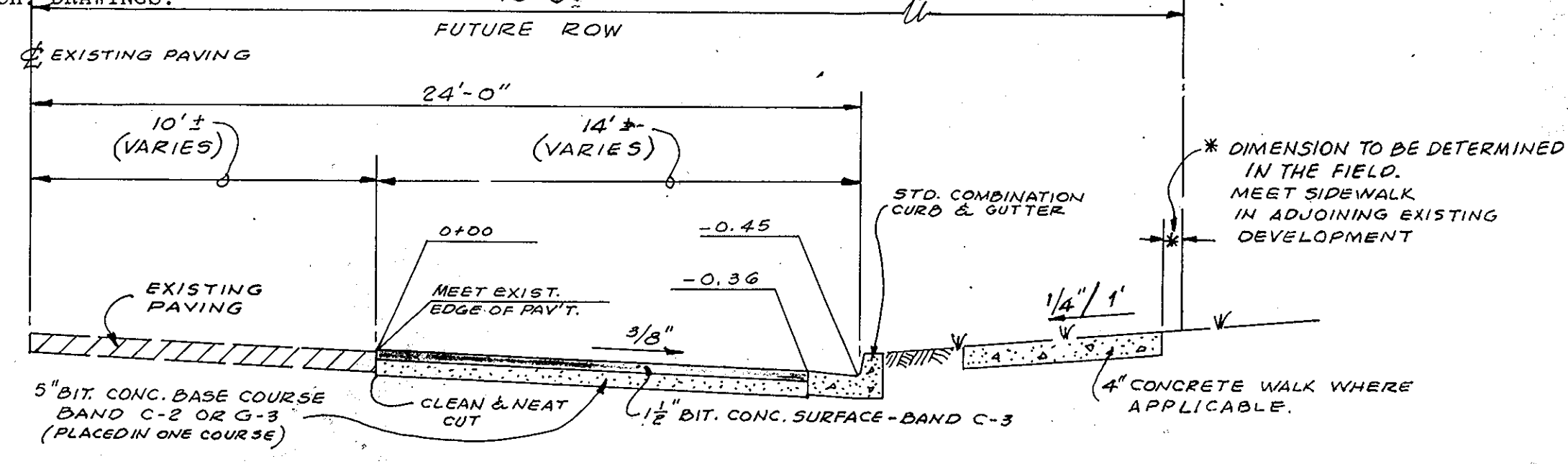
NO.	DESCRIPTION	DISPOSITION
1.	OVERHEAD LADDER	TO BE RELOCATED
2.	CARGO NET	TO BE RELOCATED
3.	BUNKER HILL	TO BE RELOCATED
4.	SWING SET	REMOVE AND DISPOSE
5.	TRIPLE CHINNING BAR	TO BE RELOCATED
6.	SWING SET	REMOVE AND DISPOSE
7.	SLIDE	TO BE RELOCATED
8.	SWING SET	REMOVE AND DISPOSE
9.	CLIMBING STRUCTURE	TO BE RELOCATED
10.	CLIMBING STRUCTURE	TO REMAIN
11.	4 BASKETBALL BACKSTOPS FOR NEW LAYOUT OF PLAYGROUND EQUIPMENT REFER TO ARCH. DRAWINGS.	TO BE RELOCATED (SEE DWG. G-2)

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 Howard County Soil Conservation District.

El-Pearson April 8, 1980
Signature Date

NO.	DESCRIPTION	DISPOSITION
12.	BASEBALL BACKSTOP	REMOVE AND DISPOSE
13.	SOCCOR GOAL POST	TO BE RELOCATED
14.	GOAL POST	TO BE RELOCATED
15.	PIPE TUNNEL	REMOVE AND DISPOSE



TYPICAL SECTION THRU ROAD WIDENING WITHIN OAKLAND MILL PUBLIC R.O.W. SCALE: 1" = 4'

OWNER: BOARD OF EDUCATION
HOWARD COUNTY, MARYLAND
8045 ROUTE 32, COLUMBIA, MD.

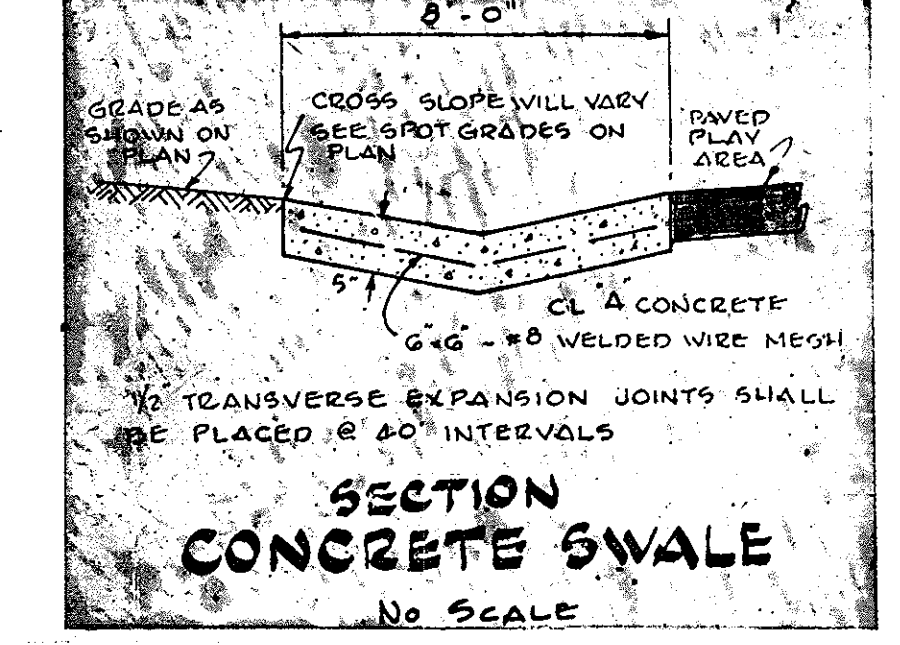
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James ... 8-29-80
COUNTY HEALTH OFFICER DATE
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas ... 9-2-80
PLANNING DIRECTOR DATE
CHIEF DIVISION OF LAND DEVELOPMENT
APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Henry F. ... 8-26-80
DIRECTOR DATE
John ... 8/27/80
CHIEF BUREAU OF ENGINEERING DATE

SDP-80-136
Guilford Elementary School Renovation
Howard County Public Schools
6TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39
GRADING PLAN

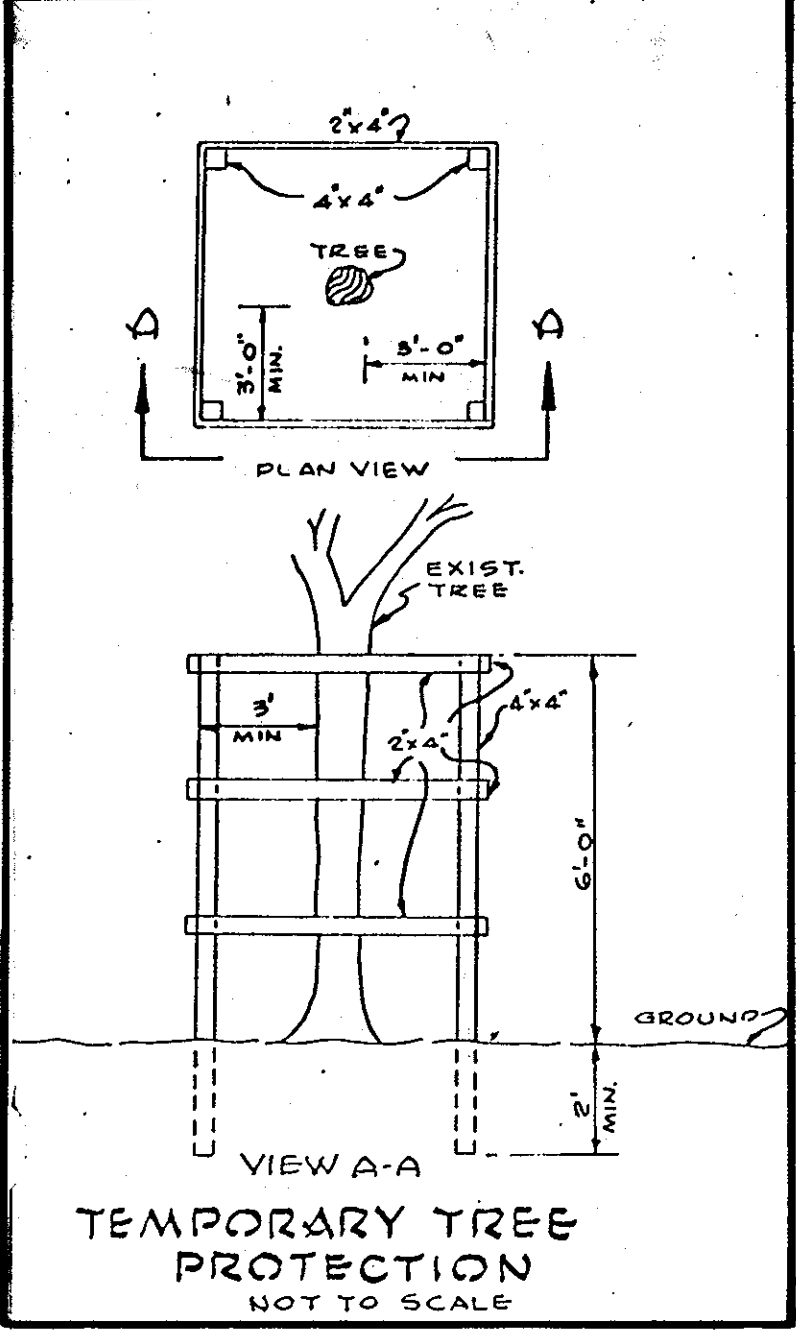
Abrash Eddy & Eckhardt Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336

SCALE: AS SHOWN
DATE: 6/13/80
REV. B.B.80
G-1
2 OF 7

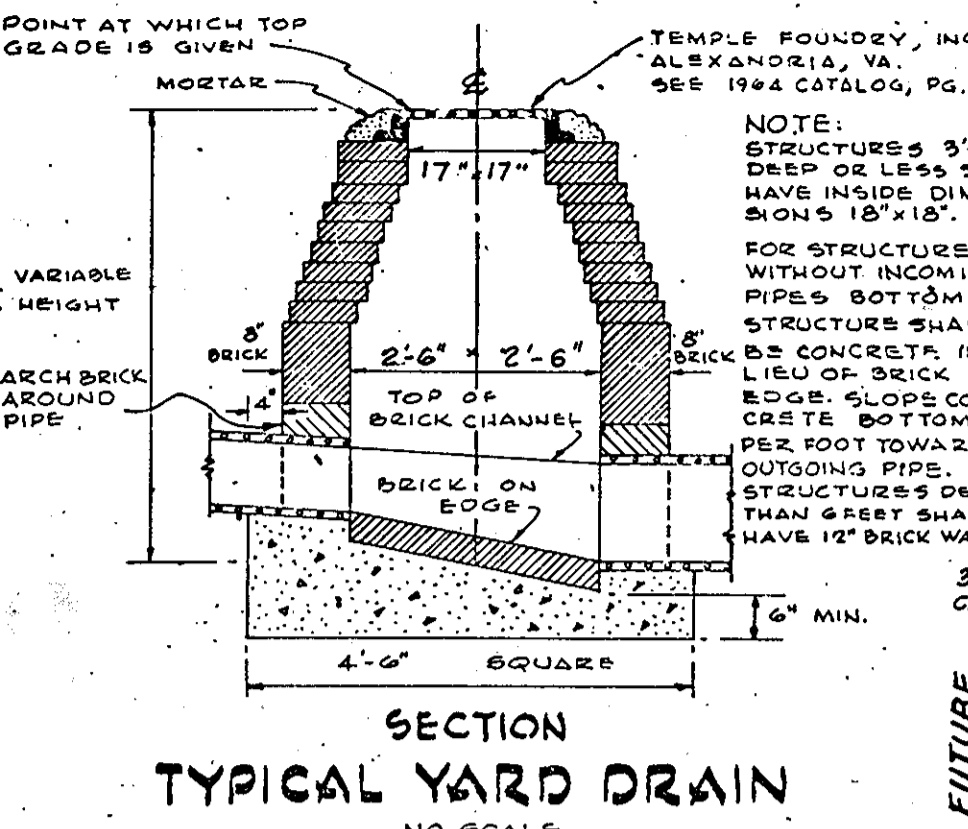
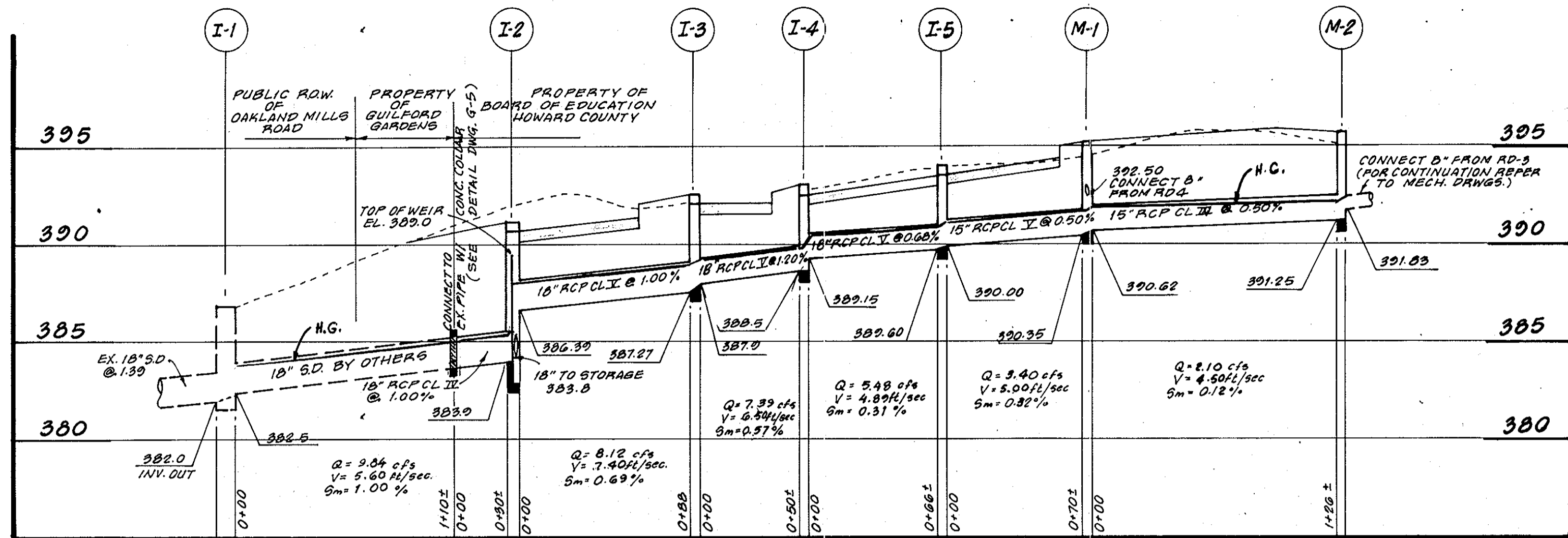
ASSOCIATED ENGINEERS, INC.
8555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-588-7311



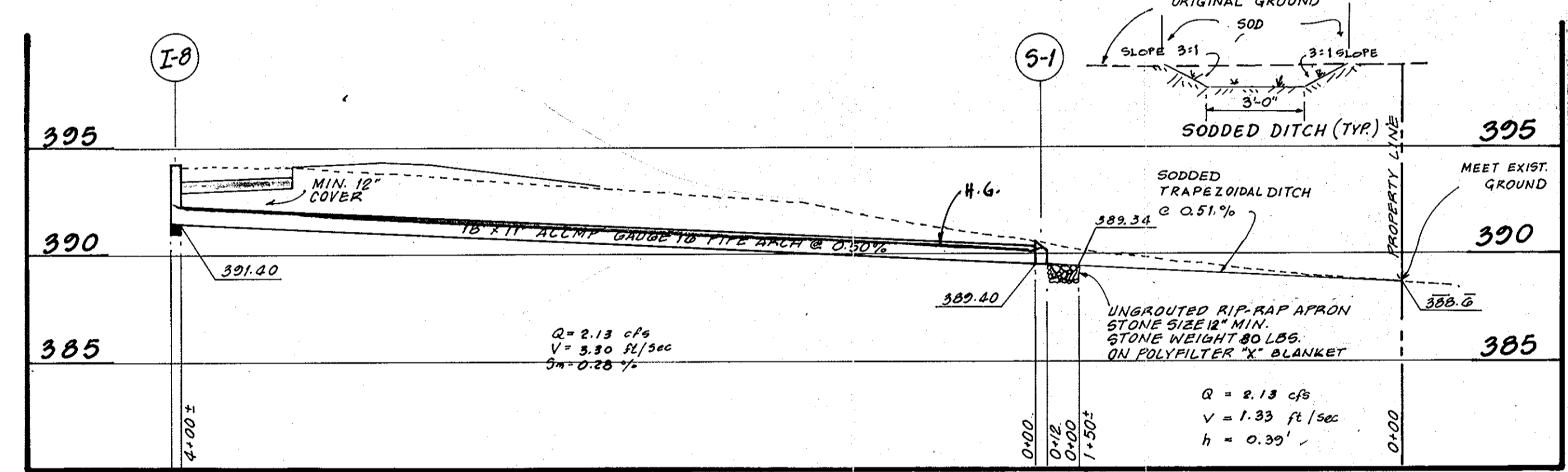
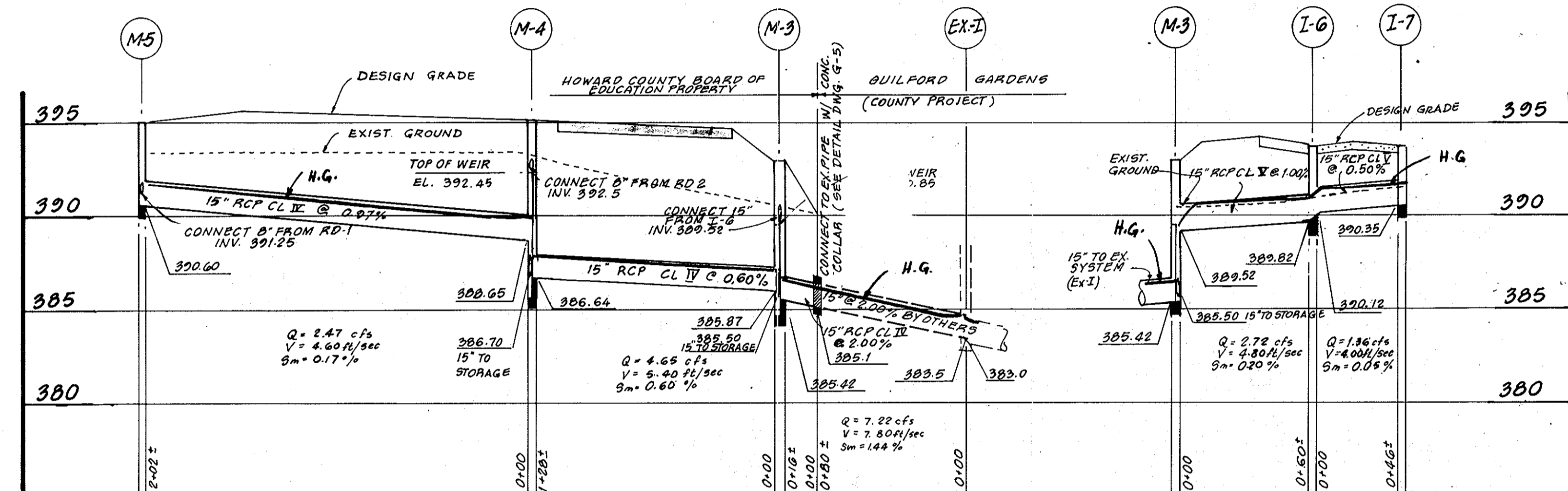
DEVELOPER'S CERTIFICATION
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard County Soil Conservation District.
Robert ... 8-11-80
Signature Date



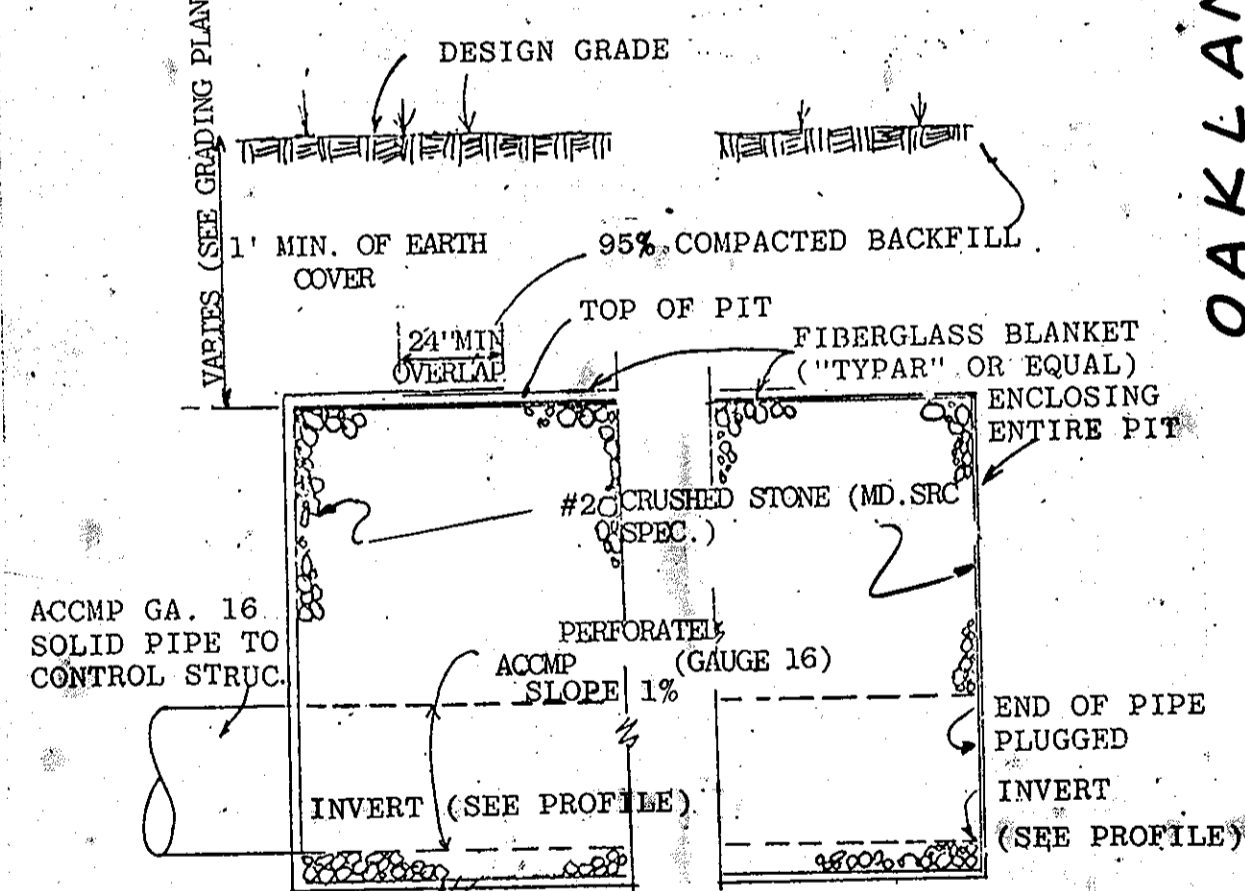
TEMPORARY TREE PROTECTION NOT TO SCALE



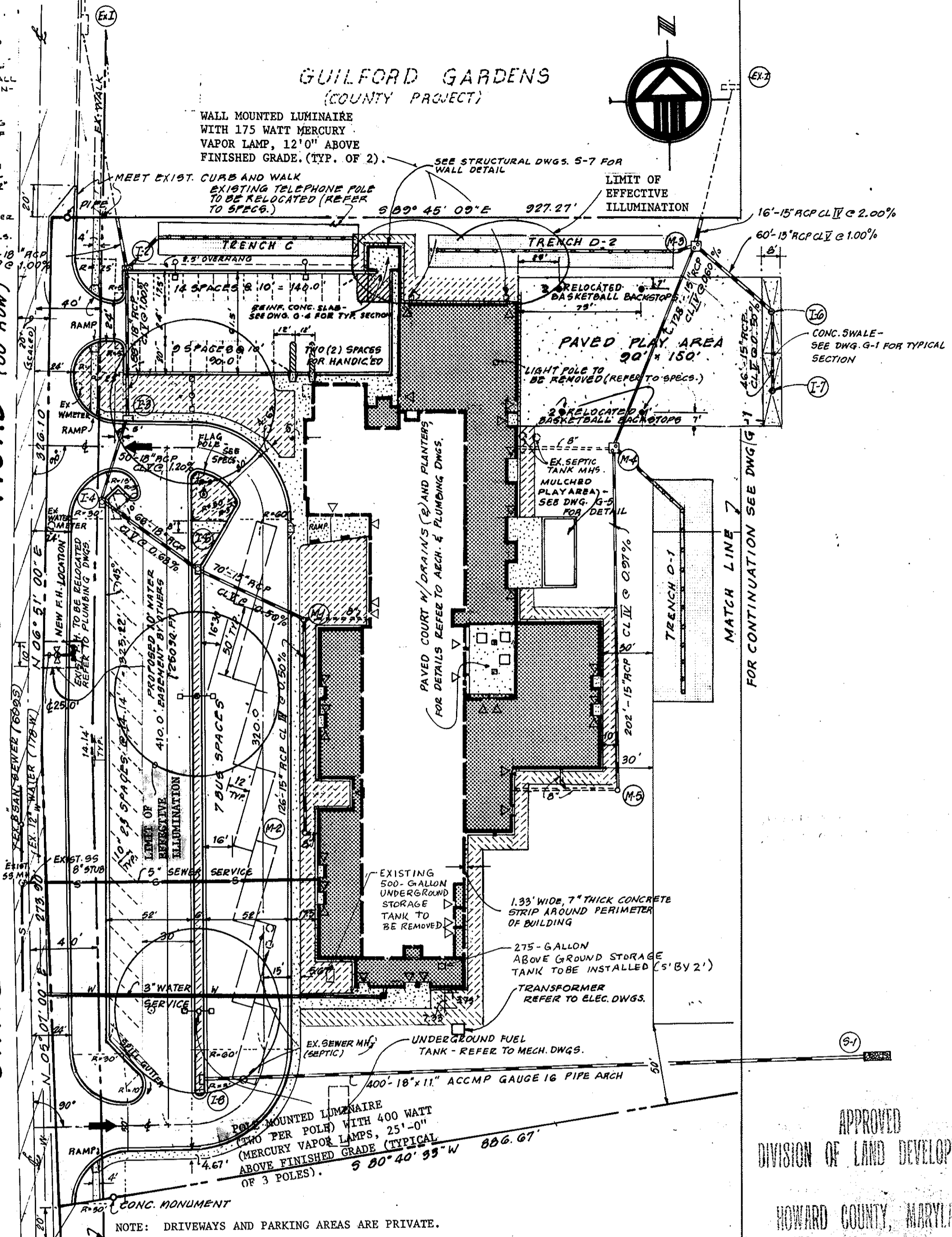
- LEGEND:
- COMBINATION CURB AND GUTTER
 - BITUMINOUS CONCRETE PAVING (HEAVY DUTY)
 - BITUMINOUS CONCRETE PAVING (LIGHT DUTY)
 - CONCRETE WALK OR PAD
 - BUILDING ADDITION
 - STORM DRAIN PIPE AND STRUCTURE
 - PERFORATED PIPE
 - STORMWATER STORAGE TRENCH
 - EXISTING STORM DRAIN
 - EXISTING SANITARY SEWER
 - EXISTING WATER
 - SANITARY SEWER CONNECTION
 - WATER CONNECTION
 - PAINTED LINES FOR PARKING OR ISLANDS
 - SOODED AREA
 - EXISTING PAVING TO REMAIN
 - NW EXTERIOR LIGHTS
 - PAINTED TRAFFIC DIRECTION SIGNS ON PAVEMENT



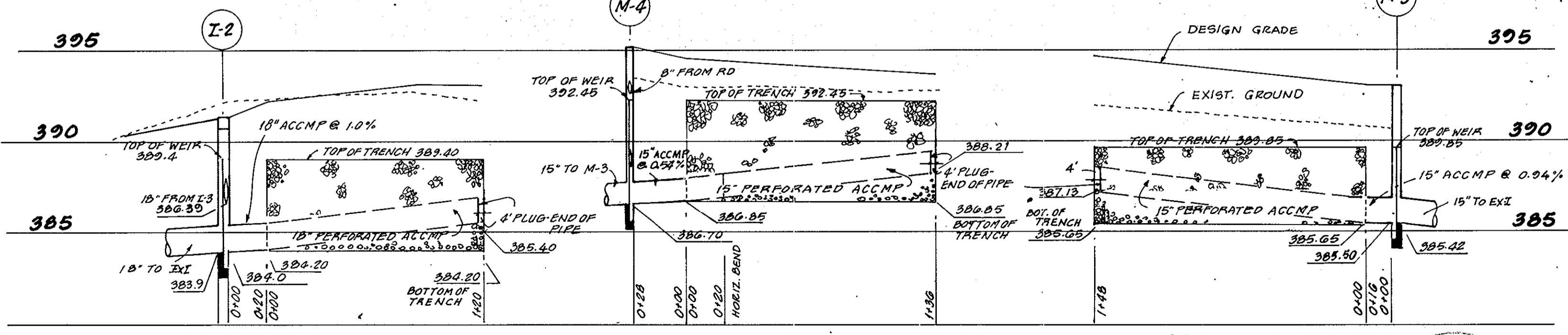
STORM DRAIN PROFILES
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



LEGEND:
RCP REINFORCED CONCRETE PIPE
ACCP ASPHALT COATED CORRUGATED METAL PIPE



LAYOUT PLAN
SCALE: 1" = 50'



STORMWATER MANAGEMENT TRENCH PROFILES
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

ASSOCIATED ENGINEERS, INC.
8335 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-589-7311

OWNER: BOARD OF EDUCATION
HOWARD COUNTY, MARYLAND
8045 ROUTE 32, COLUMBIA, MD.

APPROVED
8/18/1980

"WATER AND SEWER SERVICE TO THIS DEVELOPMENT WILL BE GRANTED UNDER THE PROVISION OF SECTION 18.122B OF THE HOWARD COUNTY CODE".

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
James M. Noh Date 8-20-80
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
Approved Robert Sehn Date 8-20-80
Howard S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James J. Jones 8-29-80
COUNTY HEALTH OFFICER DATE
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Harris 9-2-80
PLANNING DIRECTOR DATE
Sharon M. ... 9-2-80
CHIEF DIVISION OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Mary F. Nemyer 8-26-80
DIRECTOR DATE
John H. ... 8/25/80
CHIEF BUREAU OF ENGINEERING DATE



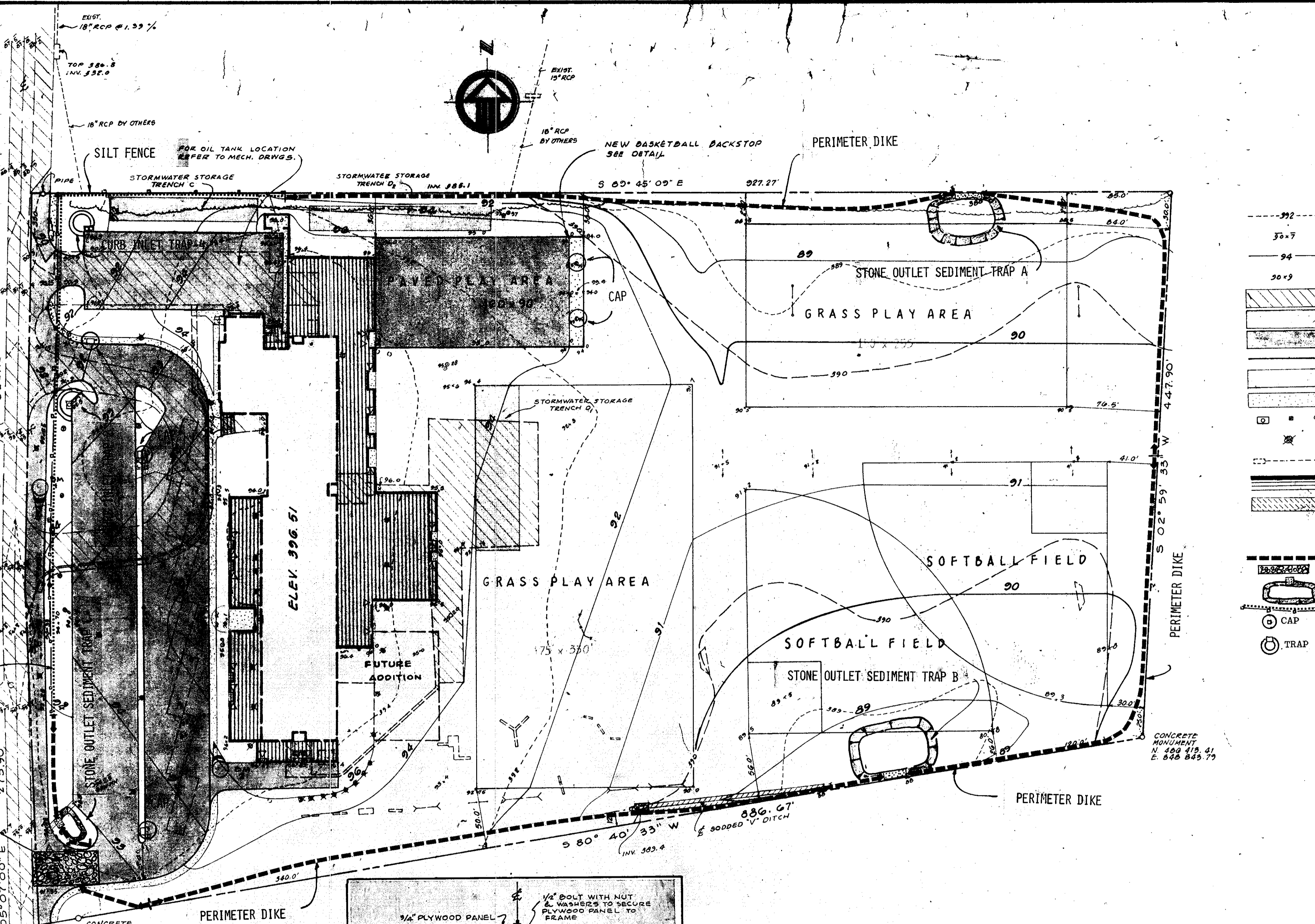
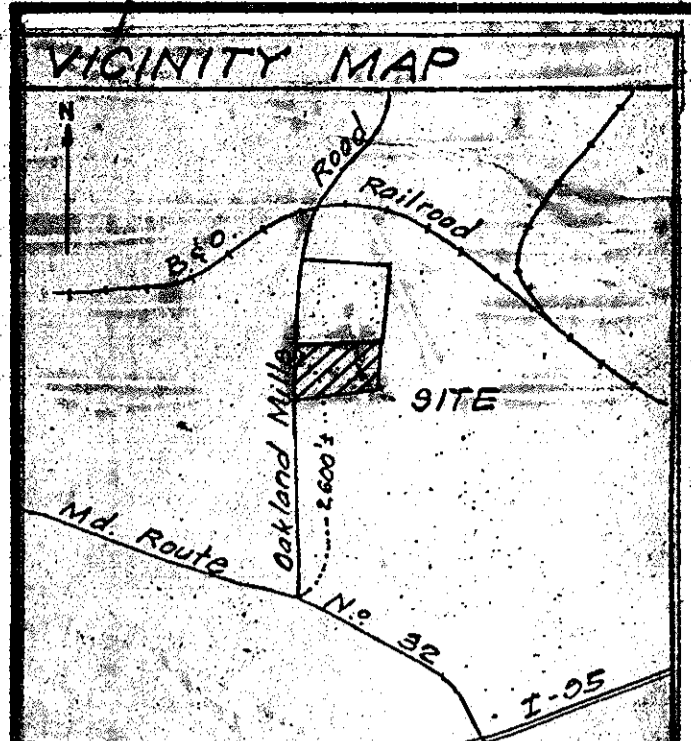
FOR REMOVAL OF 500-GAL UNDERGROUND STORAGE TANK AND INSTALLATION OF 275-GAL ABOVE-GROUND TANK. 11-13-98

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-9-80
Jim

SDP-80-136
Guilford Elementary School Renovation
Howard County Public Schools
6TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39
LAYOUT PLAN AND PROFILES

Abrahs Eddy & Eckhardt Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336

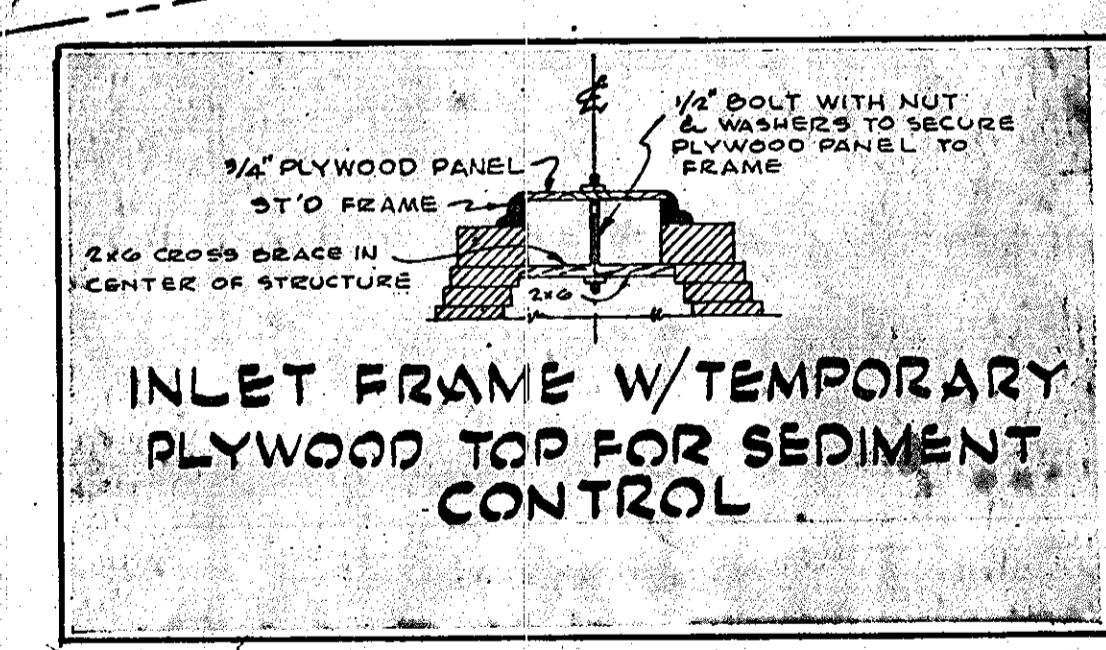
SCALE: AS SHOWN
DATE: 6/13/80
REV. 3.8.80
6-2
3 OF 7



- LEGEND:
- 99.2 --- EXISTING CONTOUR
 - 90.7 --- EXISTING SPOT GRADES
 - 94 --- DESIGN CONTOUR
 - 90.9 --- DESIGN SPOT GRADES
 - [Hatched] EXISTING PAVING TO REMAIN
 - [Dotted] EXISTING PAVING TO BE REMOVED
 - [Stippled] NEW BITUMINOUS CONCRETE PAVING
 - [Horizontal lines] NEW CONCRETE CURB AND GUTTERS
 - [Vertical lines] STORMWATER MANAGEMENT TRENCH
 - [Diagonal lines] NEW CONCRETE WALK OR SLAB
 - [Circle with cross] STORM DRAIN STRUCTURES
 - [Star] EXISTING TREES TO BE REMOVED
 - [Dashed line] EXISTING STORM DRAIN
 - [Solid line] NEW BUILDING ADDITION
 - [Blank] SOD
- SEDIMENT CONTROL LEGEND:
- [Dashed line] TEMPORARY PERIMETER DIKE (PD-1)
 - [Circle with cross] TEMPORARY STABILIZED CONSTRUCTION ENTRANCE (SCE-1)
 - [Circle with cross] TEMPORARY STONE OUTLET SEDIMENT TRAP (ST-3)
 - [Circle with cross] TEMPORARY STRAW BALE (SBD-1) OR SILT FENCE (SF-1)
 - [Circle with cross] TEMPORARY PLYWOOD CAP (SEE DETAIL)
 - [Circle with cross] TEMPORARY STORM INLET SEDIMENT TRAP (ST-4)

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
John M. Zilm Date 8-20-80
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Approved Richard Zilm Date 8-20-80
Howard S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John Brown 8-29-80
COUNTY HEALTH OFFICER DATE
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Donald J. Bagery 9-28-80
PLANNING DIRECTOR DATE
CHIEF DIVISION OF LAND DEVELOPMENT
Donald J. Bagery 9-28-80
DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Ray F. Neumeier 9-26-80
DIRECTOR DATE
John M. Zilm 8-25-80
CHIEF BUREAU OF ENGINEERING DATE



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 Howard County Soil Conservation District.
Ed Penick 8/11/80
Signature Date
STATE OF MARYLAND PROFESSIONAL LAND SURVEYOR

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 County Soil Conservation District.
Donald J. Bagery 8-11-80
Signature Date

SEDIMENT TRAP SCHEDULE								
TRAP	TYPE	TRIBUTARY AREA (AC)	STORAGE REQUIRED (CU. FT.)	TRAP DIMENSIONS			ACTUAL CAPACITY (CU. FT.)	REMARKS
				L	W	D		
A	ST-3	3.58	6444	49	34	3	6708	L = 22'
B	ST-3	4.02	7236	50	37	3	7332	L = 24'
C	ST-3	0.60	1080	16	10	3	1162	L = 4'
2	ST-4	0.67	1206	16	12	3	1296	-
4	ST-4	0.69	1242	16	12	3	1296	-

- NOTES FOR SEDIMENT TRAPS:
- TRAP SIZE IS BASED ON 1800 CUBIC FEET PER TRIBUTARY ACRE TO TRAP.
 - DIMENSIONS GIVEN ARE AT BASE OF TRAP.
 - TRAPS MAY BE SLIGHTLY RELOCATED TO MAINTAIN A MINIMUM OF 1 FOOT OF COVER OVER PIPES.
 - FOR FURTHER DETAILS, SPEC., AND DEFINITIONS OF SYMBOLS AND ABBREVIATIONS, REFER TO THE SOIL CONSERVATION SERVICE'S JULY, 1975 EDITION OF STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.
 - INLET TRAP NUMBERS ARE THE SAME AS THE INLET NUMBER.
 - CONTRACTOR SHALL PROVIDE A 42" HIGH SAFETY FENCE AROUND ALL TRAPS.
 - TEMPORARILY CAP INLETS 1-3, 1-9, 1-6 AND 1-7 WITH PLYWOOD COVERS.

SCALE: 1" = 50'

NOTE:
THIS DRAWING SHALL BE USED FOR SEDIMENT AND EROSION CONTROL ONLY.
FOR NOTES AND CONSTRUCTION SEQUENCE REFER TO DRAWING G-0; FOR SEDIMENT CONTROL DETAILS REFER TO DRAWING G-4.

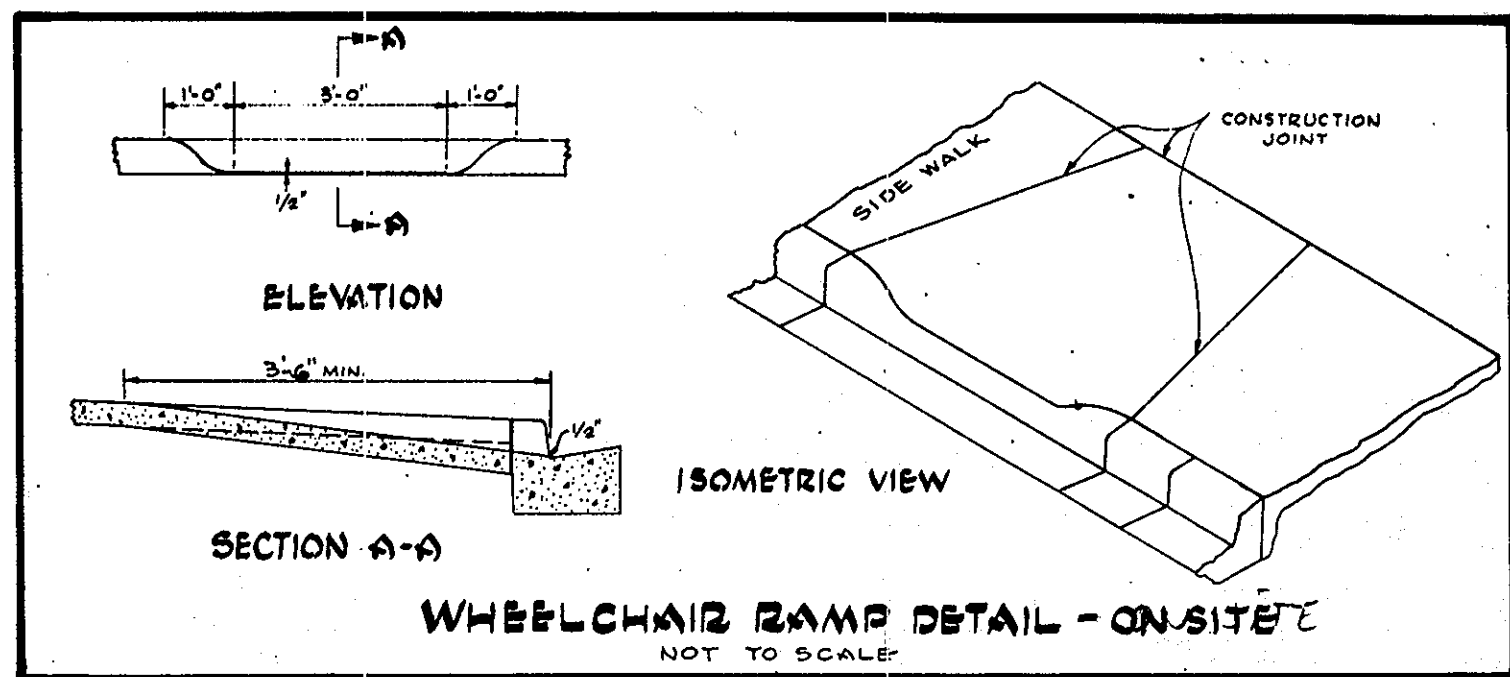
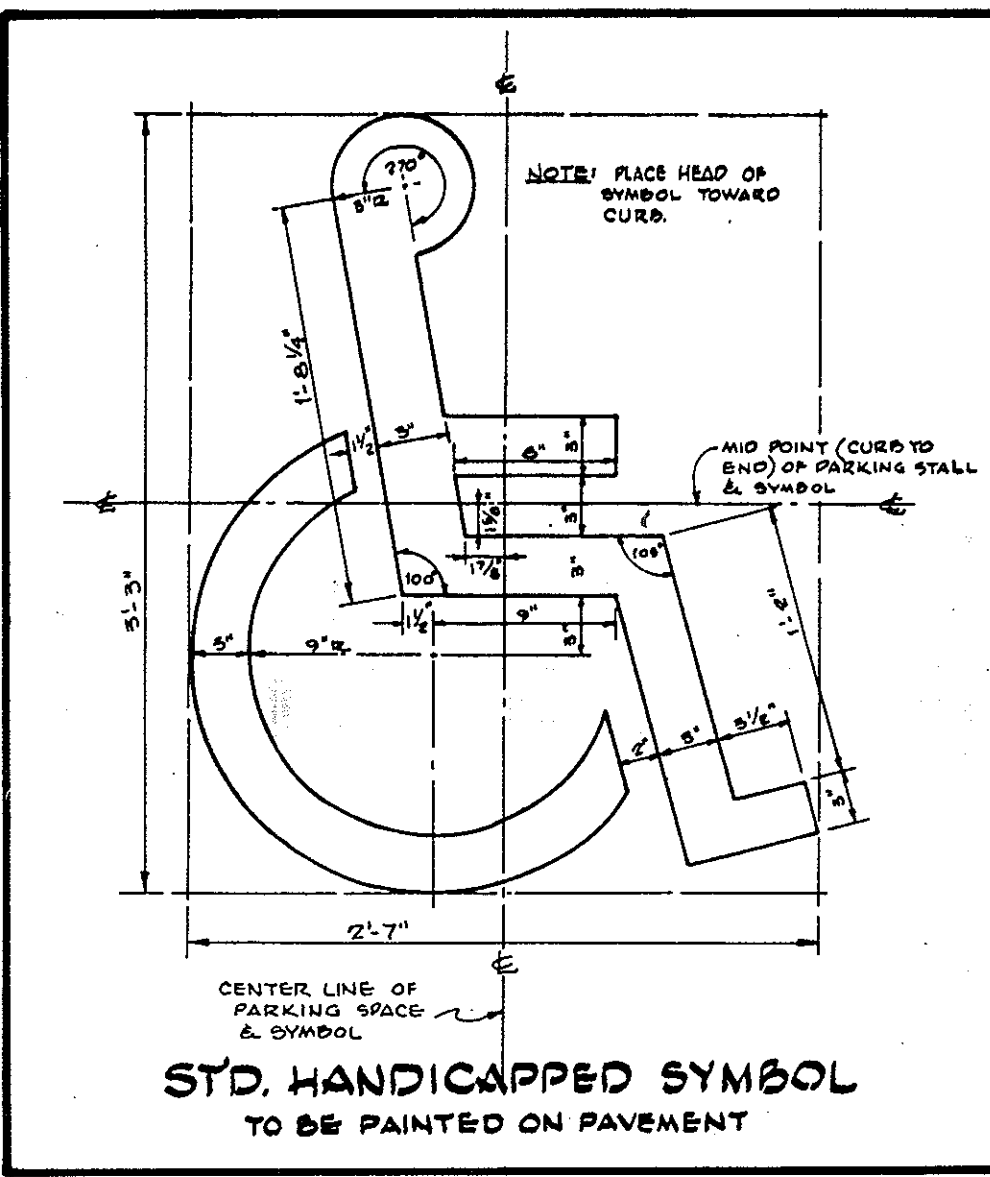
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 7-9-80
JMM

SDP-80-136
Guilford Elementary School Renovation
Howard County Public Schools
8TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39
SEDIMENT CONTROL PLAN

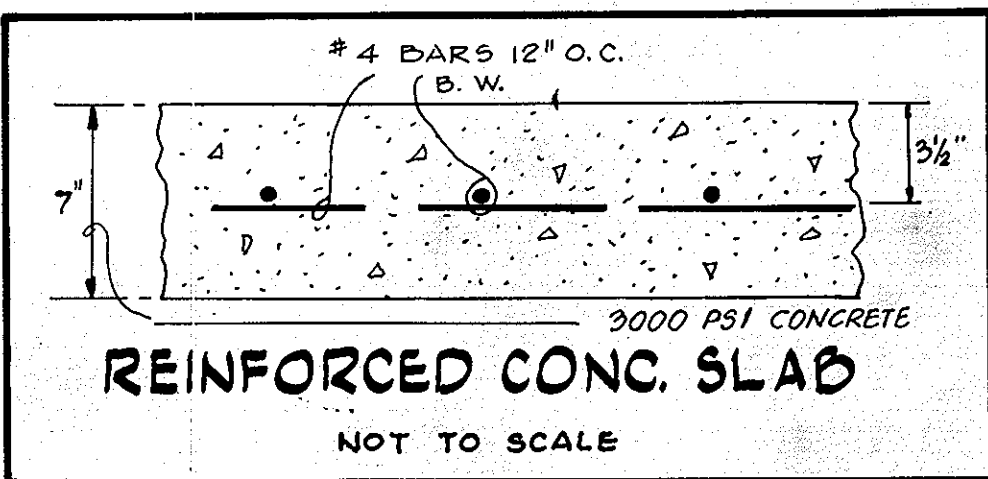
Abrash Eddy & Eckhardt Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336

SCALE: AS SHOWN
DATE: 6/12/80
REV. B.B.80
G-3
SDP-80-136

ASSOCIATED ENGINEERS, INC.
8555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-569-7311

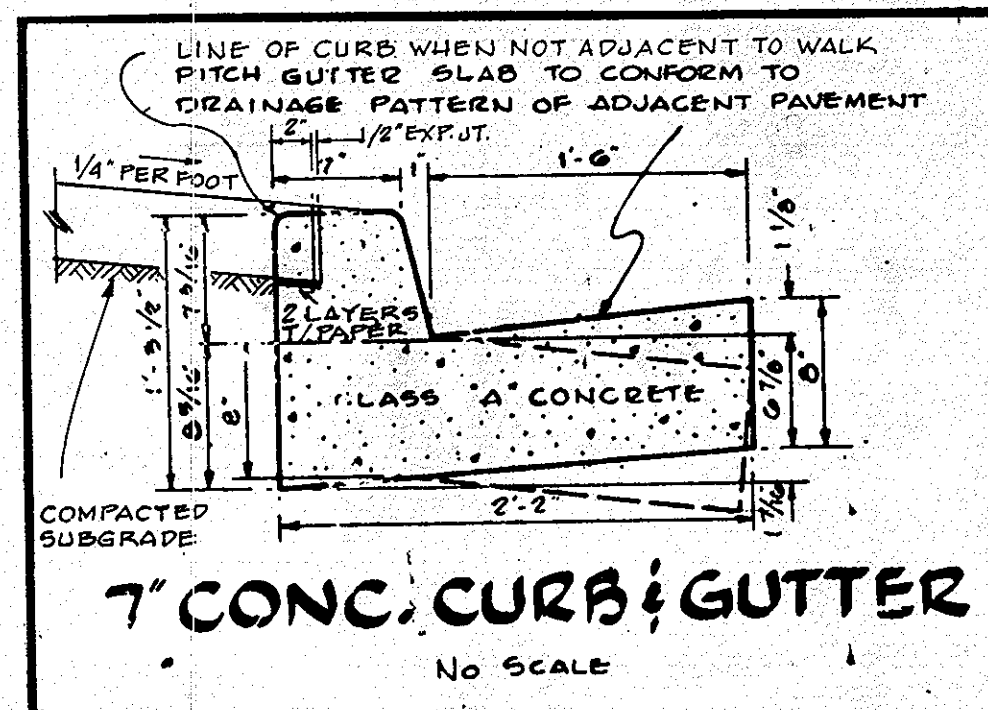
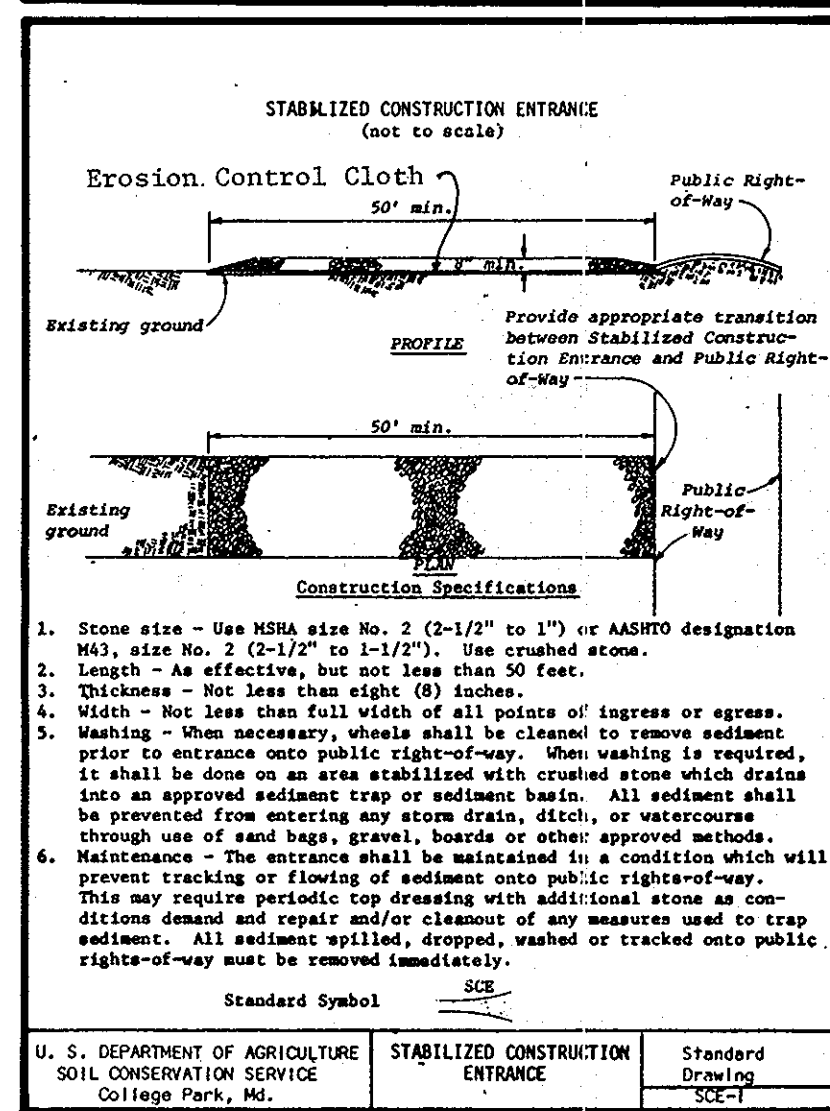
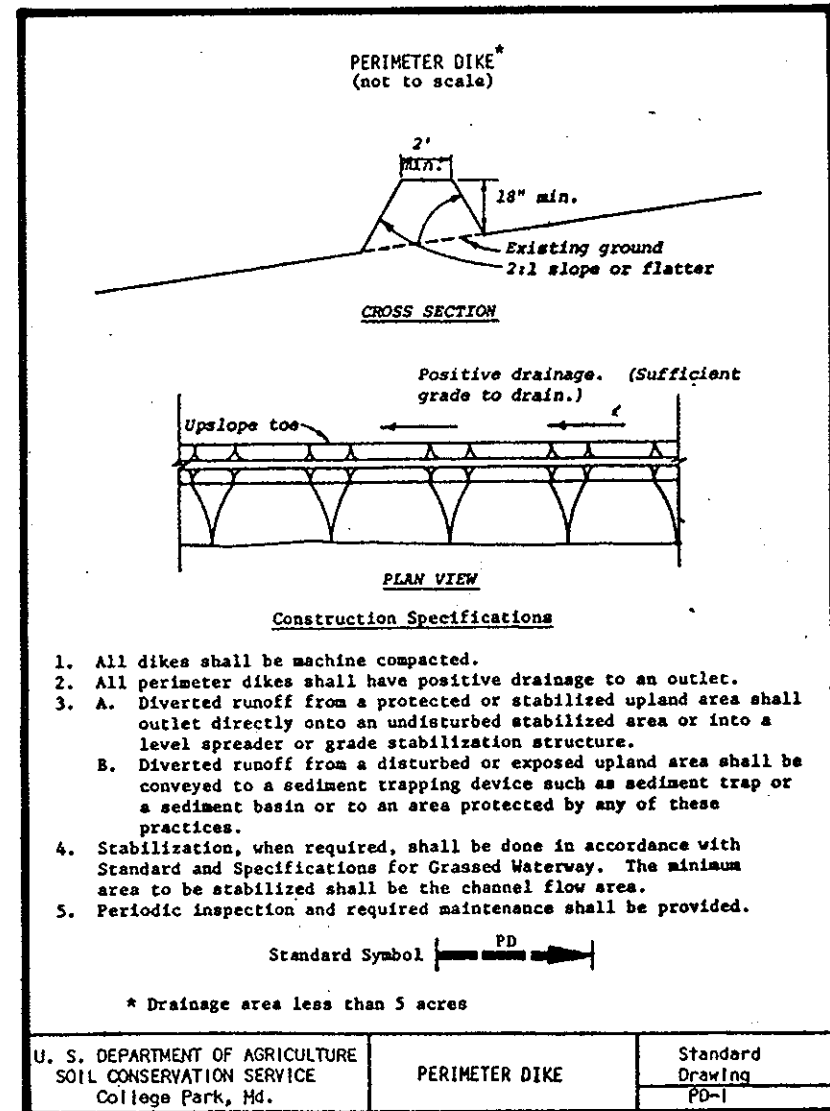
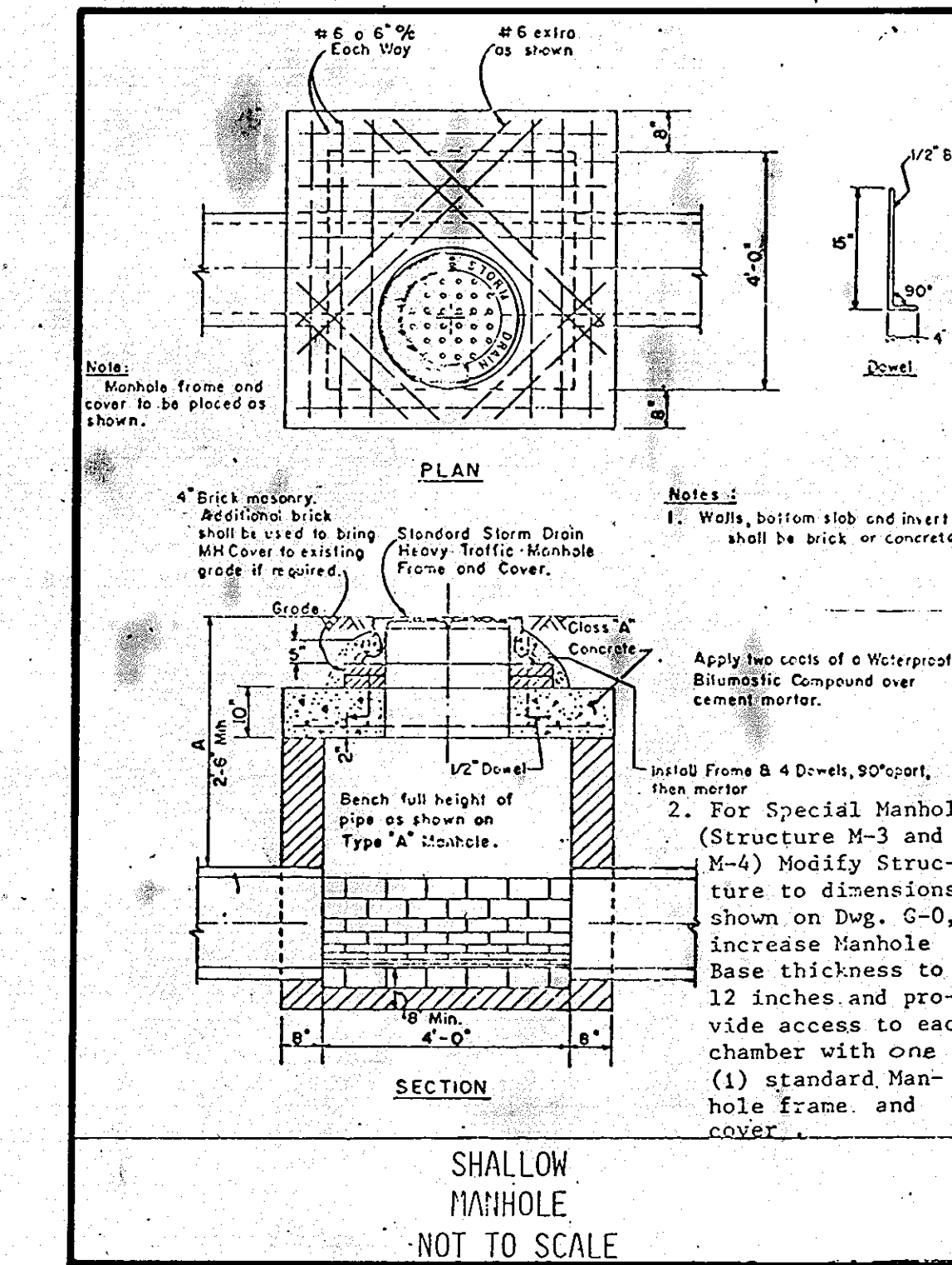
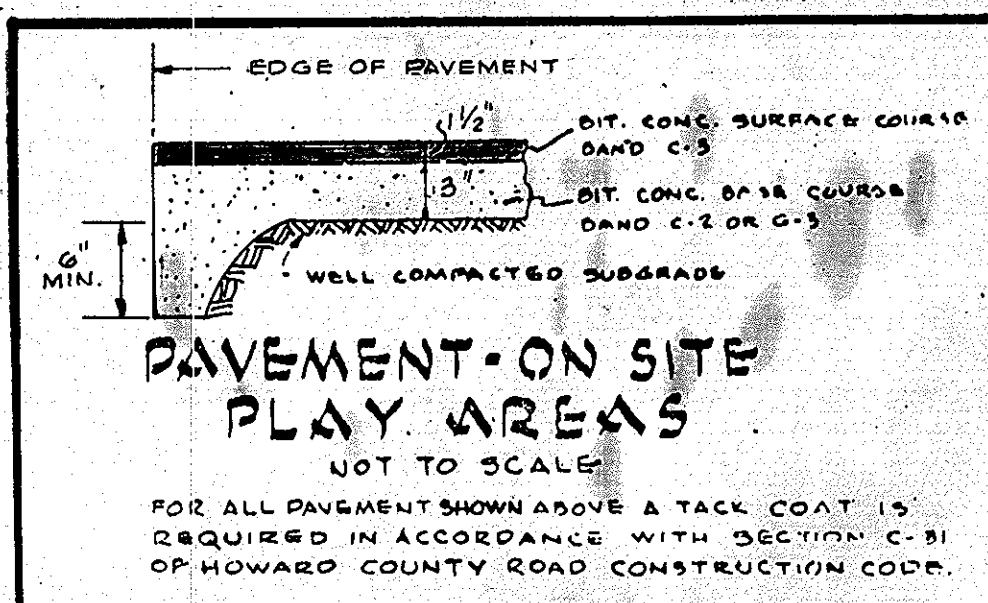
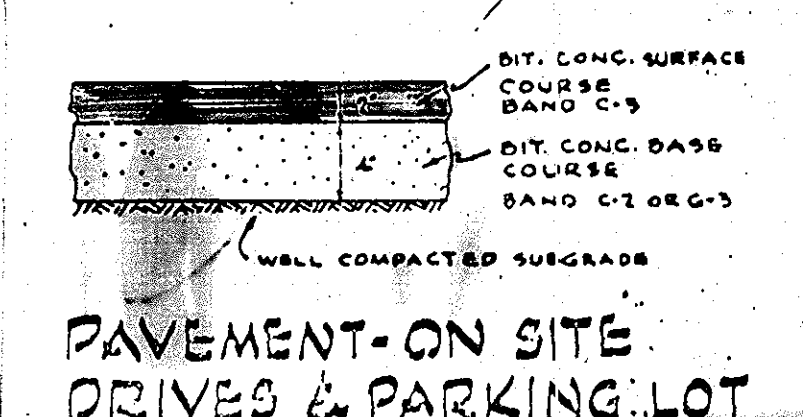
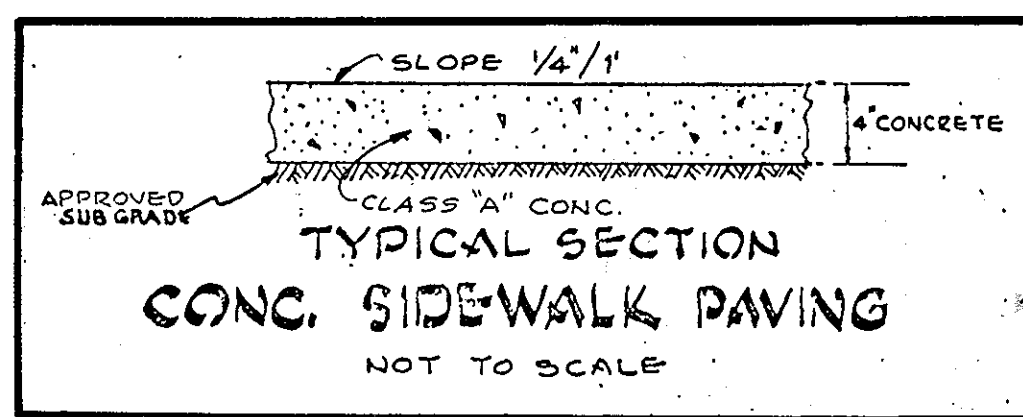
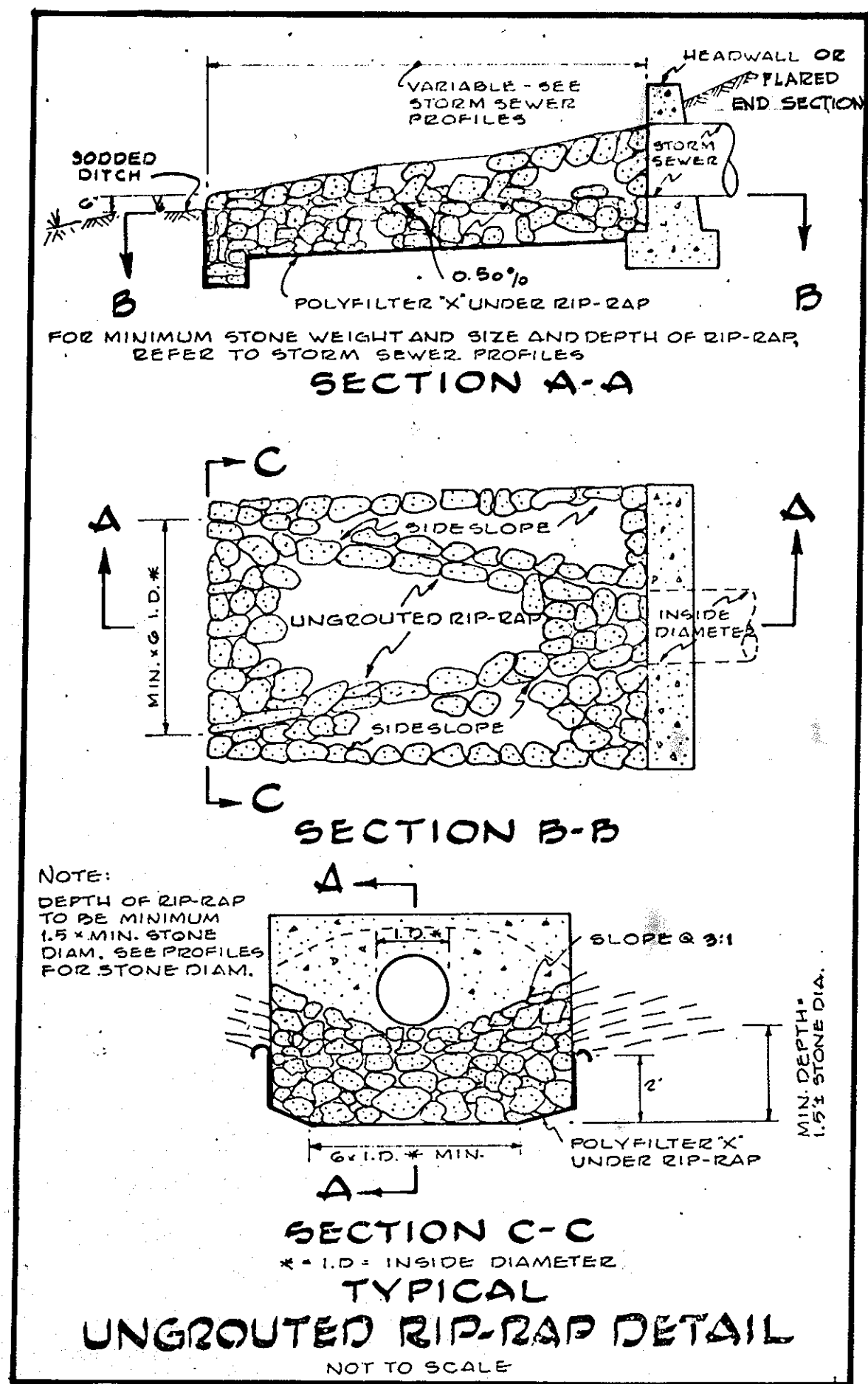


NOTE: FOR PAVING WITHIN FUTURE OAKLAND MILLS RIGHT-OF-WAY REFER TO DWG. G-1 (TYPICAL SECTION THRU ROAD WIDENING).

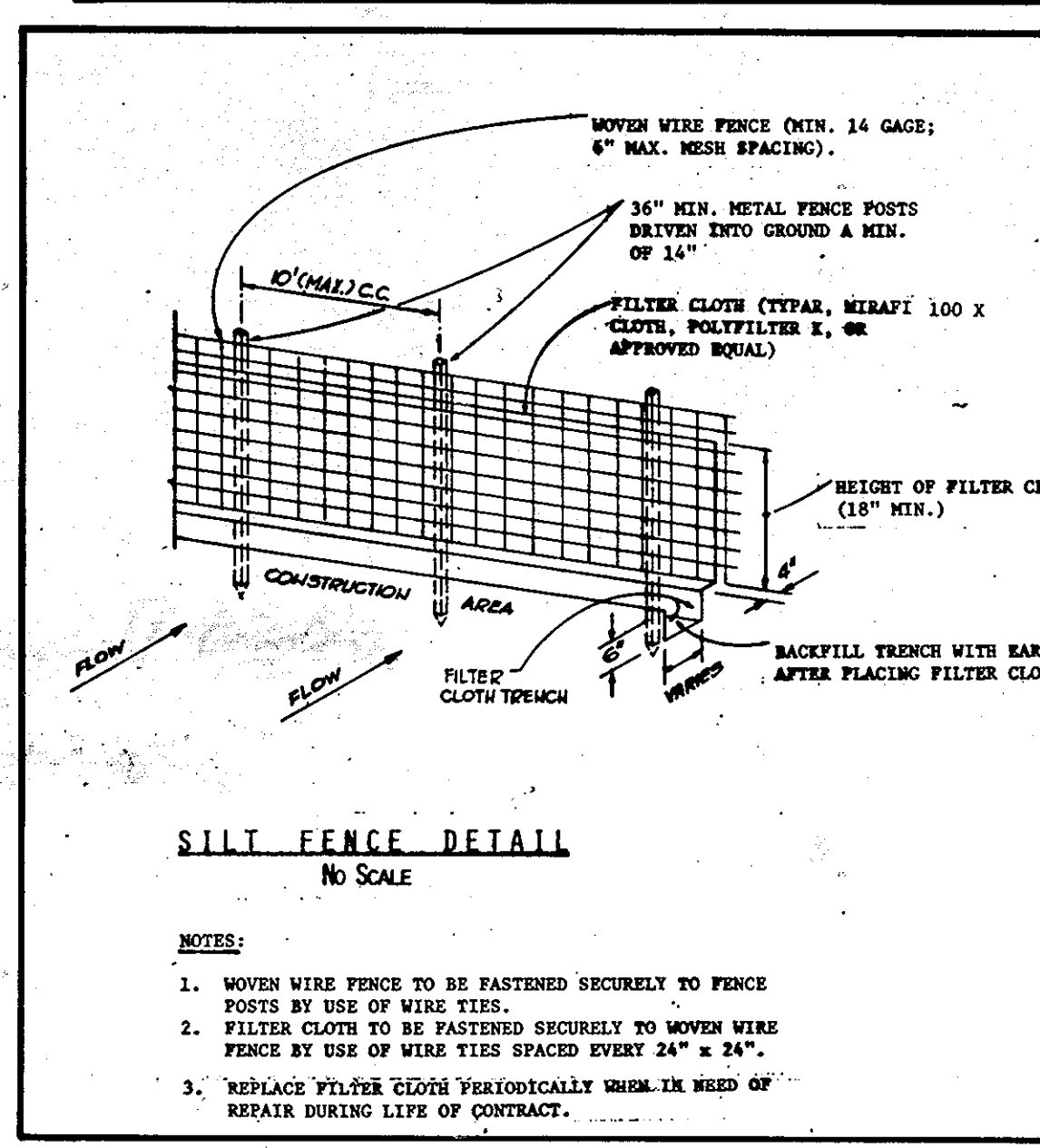
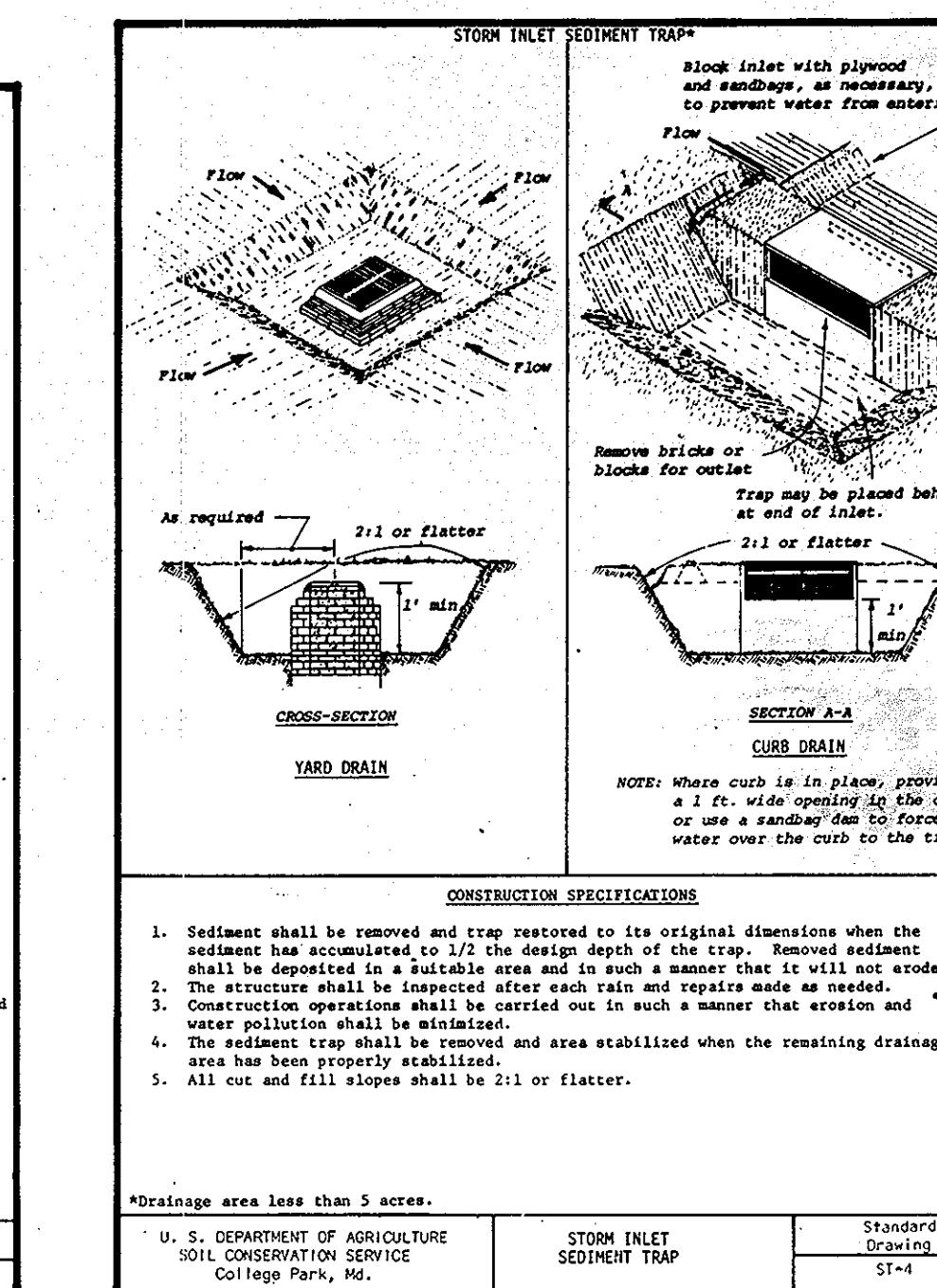
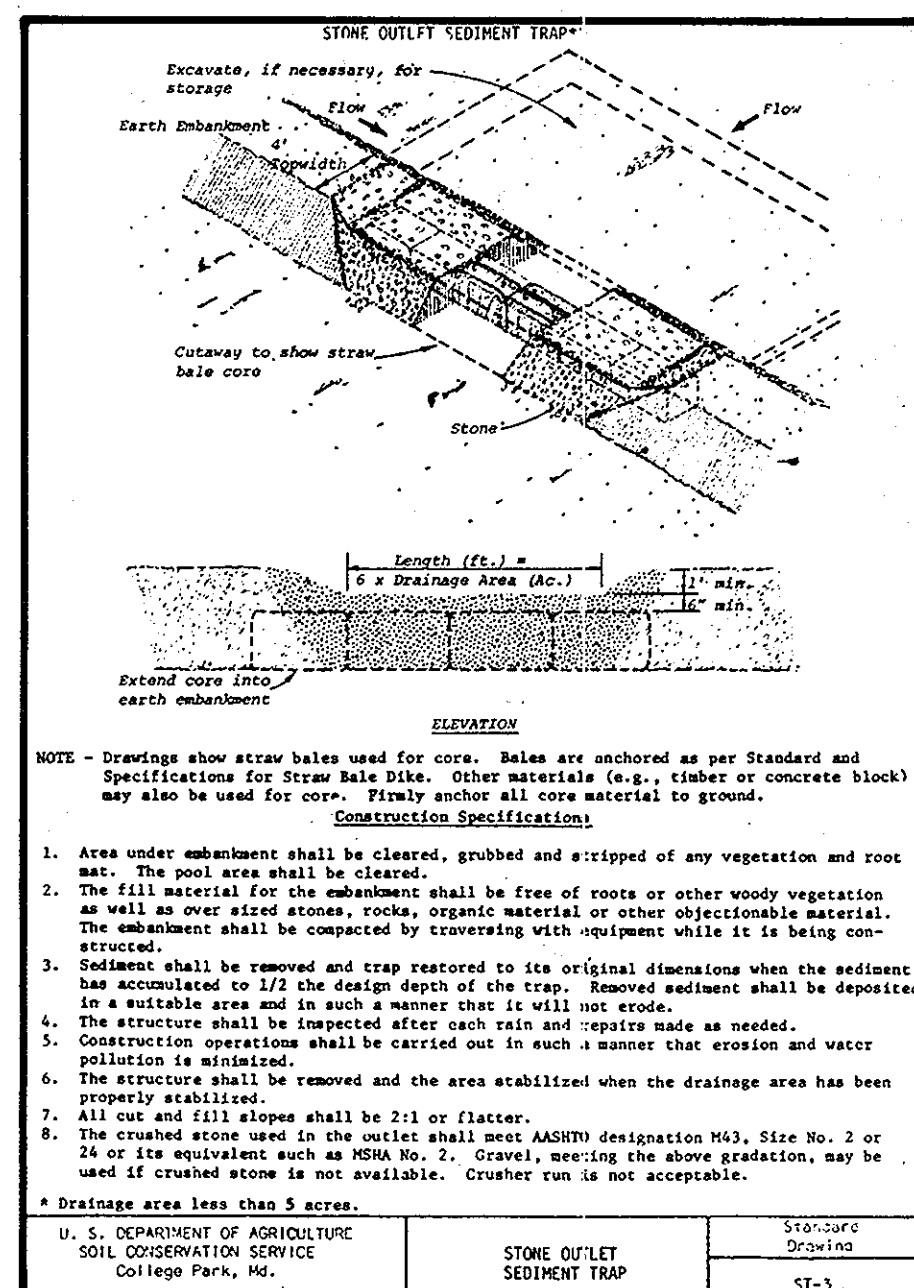
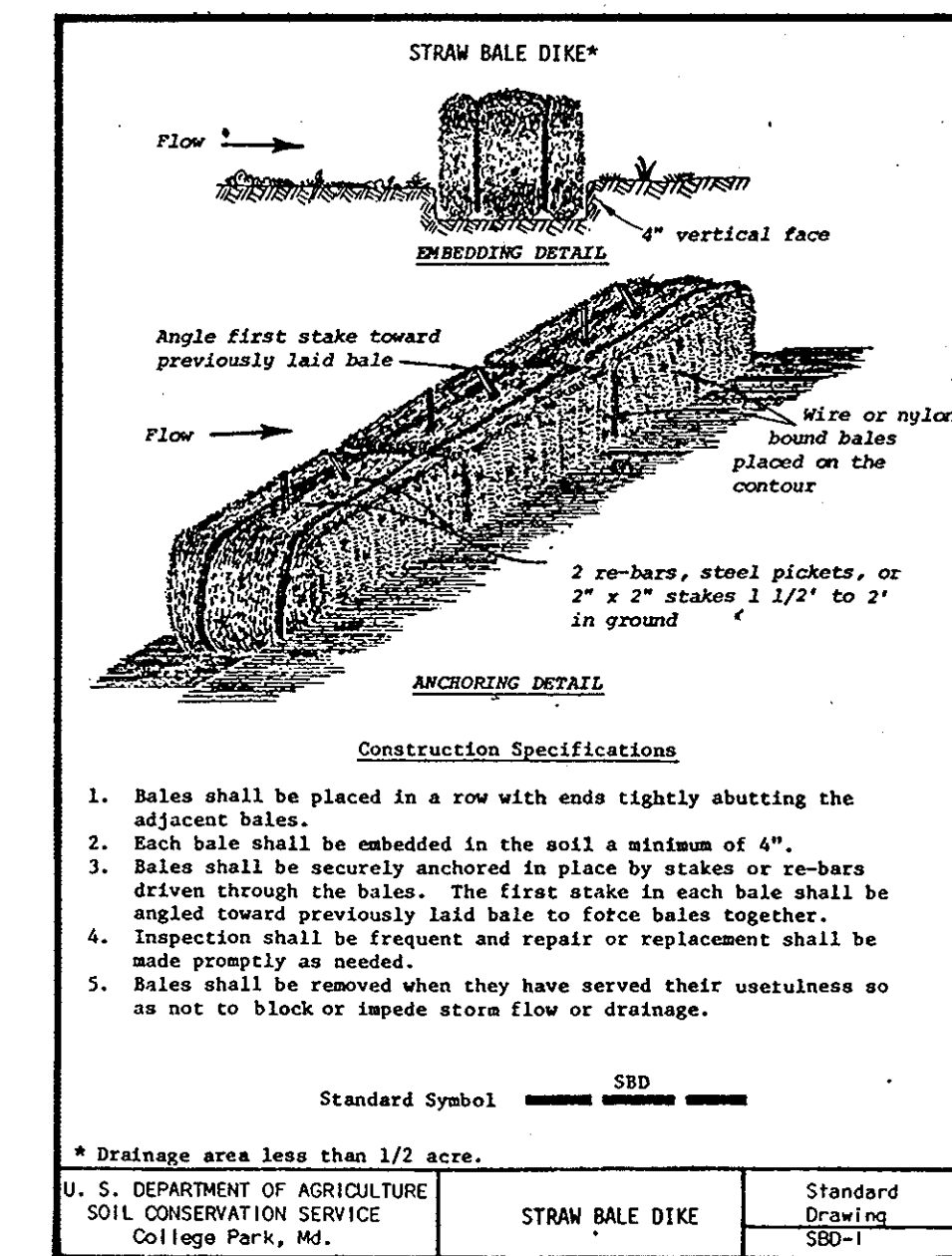


NO.	TYPE	TOP ELEV.	REMARKS
I-1	EXISTING INLET	-	CONNECTION TO PROPERTY LINE W/18" BY OTHERS
I-2	MODIFIED A-5 INLET*	391.30	HOWARD COUNTY STANDARD DWG. 64-A MODIFIED - SEE DETAIL, DWG. G-0
I-3	A-5 INLET	392.50	HOWARD COUNTY STANDARD DWG. 64-A
I-4	A-5 INLET	393.10	HOWARD COUNTY STANDARD DWG. 64-A
I-5	A-5 INLET	394.10	HOWARD COUNTY STANDARD DWG. 64-A
I-6	YARD DRAIN	393.75	AS DETAILED, DWG. G-2
I-7	YARD DRAIN	393.75	AS DETAILED, DWG. G-2
M-1	SHALLOW MANHOLE	396.30	AS DETAILED, DWG. G-4
M-2	SHALLOW MANHOLE	395.80	AS DETAILED, DWG. G-4
M-3	SPECIAL MANHOLE*	393.57	SEE DETAIL, DWG. G-0
M-4	SPECIAL MANHOLE*	395.28	SEE DETAIL, DWG. G-0
M-5	SHALLOW MANHOLE	395.20	AS DETAILED, DWG. G-4
I-8	A-5 INLET	394.00	HOWARD COUNTY STANDARD DWG. 64-A
S-1	END SECTION	** 389.40	GALVANIZED STEEL (18 x 11) GAUGE 16 WITH END FLANGE ENGRAVED RIP RAP APRON

* STRUCTURE TO SERVE AS CONTROL STRUCTURE
 ** INVERT ELEVATION



Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
 Signature [Signature] Date 8-20-80
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Approved [Signature] Date 8-20-80
 Howard S.C.D.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER [Signature] DATE 8-29-80
 APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR [Signature] DATE 9-2-80
 CHIEF DIVISION OF LAND DEVELOPMENT TRANSPORTATION [Signature] DATE 9-2-80
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR [Signature] DATE 8-26-80
 CHIEF BUREAU OF ENGINEERING [Signature] DATE 8/25/80

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 7-9-80
 SDP-80-136
Guilford Elementary School Renovation
 Howard County Public Schools
 6TH ELECTION DISTRICT
 TAX MAP 42, PARCEL 39,
 DETAILS
Abrash Eddy & Eckhardt Architects
 11418 Washington Plaza
 Reston Virginia 22090
 703 471 6336
 SCALE: AS SHOWN
 DATE: 6/17/80
 REV. B.B.80
 G-4
 5 OF 7

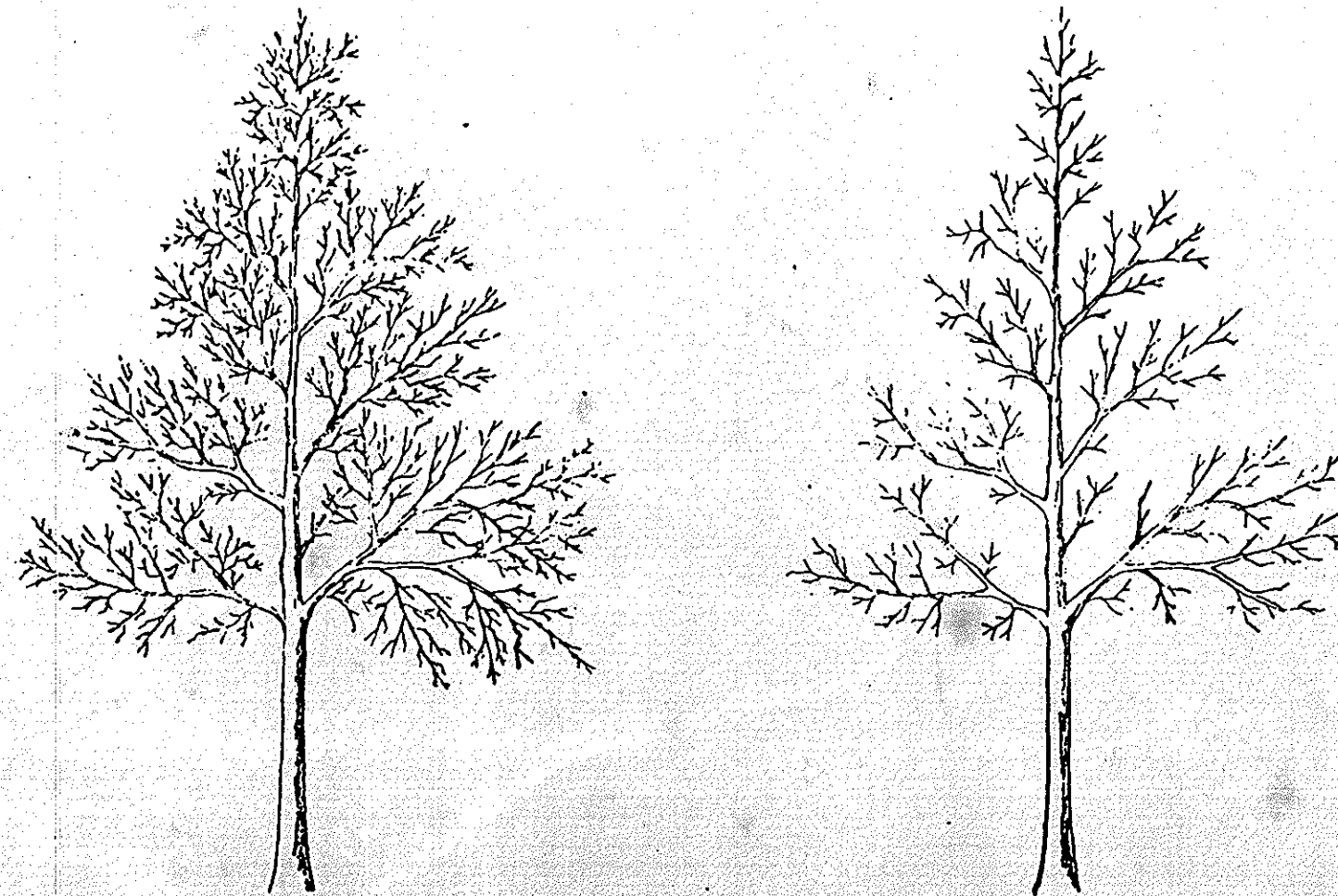
OWNER: BOARD OF EDUCATION
 HOWARD COUNTY, MARYLAND
 8045 ROUTE 32, COLUMBIA, MD.

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

PROCEDURE FOR BRACING TREES

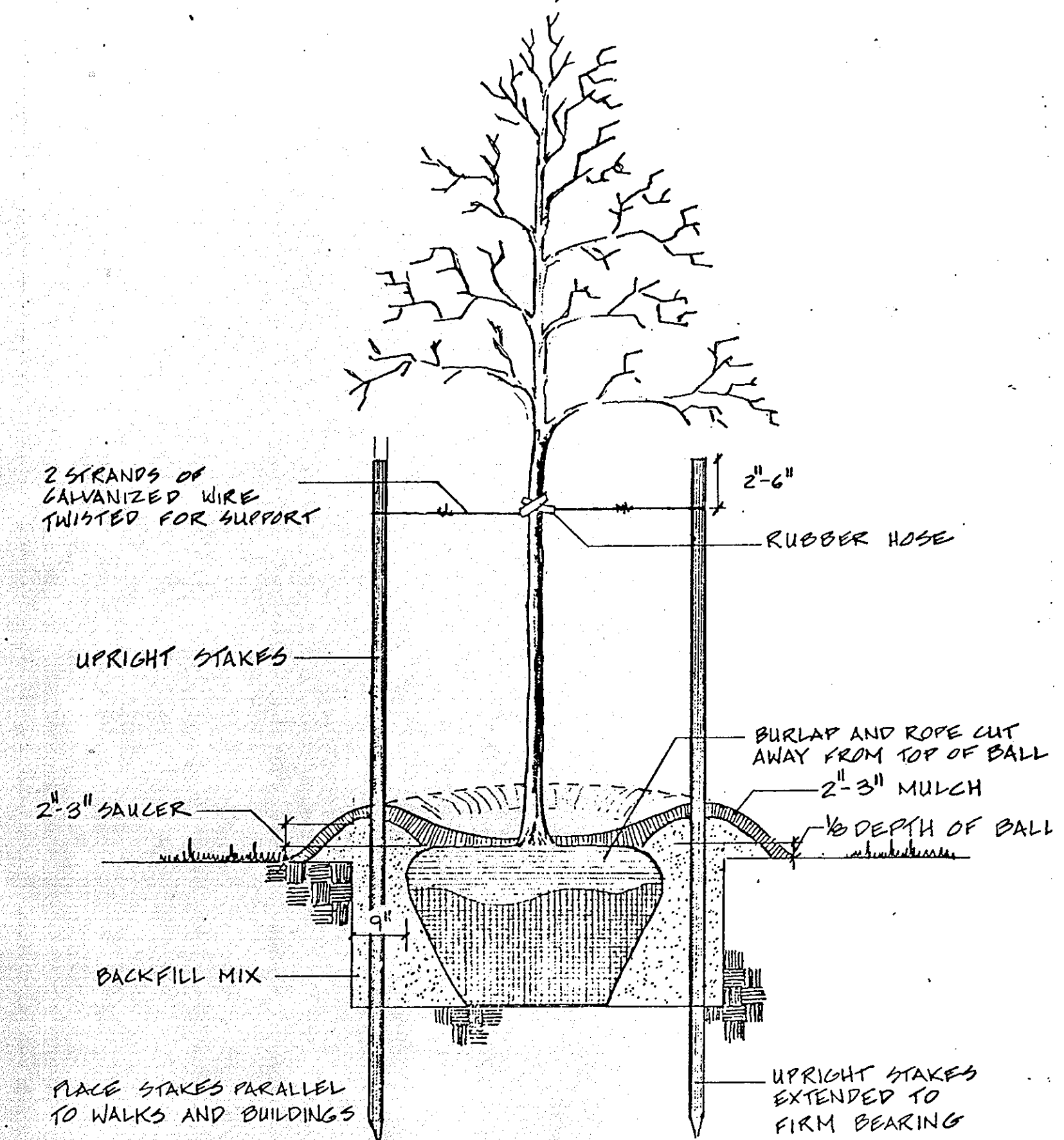
- I. Trees Braced by Staking
 - A. Choose the correct size and number of stakes and size of hose and wire according to the Tree Support Schedule. Staking shall be completed within 48 hours of planting the tree. Place stakes parallel to walks and buildings.
 - B. Space stakes evenly and vertically on the outside of the tree ball and drive firmly into the ground (stakes can be slightly angled away from tree). NOTE: Never drive a stake through the tree ball, as it will damage the tree's root system.
 - C. Cut pieces of hose long enough to loop around the trunk of the tree.
 - D. Place the hose around the trunk at the height required to provide optimum support. Then run the wire through the hose and pull both ends horizontally beyond the stake by about 2'.
 - E. Cut the ends of the wire and then twist the wire at the rubber hose to keep it in place.
 - F. Run both ends of the wire together around the stake twice and then twist wire back onto itself to secure it. Cut off excess wire and stake.
 - G. The above procedures are to be followed for each stake.

PRUNING DETAIL FOR B+B TREES



1. PRUNE TREES JUST AFTER DIGGING
2. THIN TREES BY REDUCING APPROXIMATELY 30% OF THE CROWN
3. DO NOT CUT THE MAIN LEADER
4. IF SIDE BRANCHES ARE CUT TO BALANCE TREE MAKE ALL CUTS FLUSH WITH A LATERAL BRANCH

TYPICAL UPRIGHT STAKING DETAIL
SEE SUPPORT SCHEDULE



STATE OF MARYLAND
DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401
(301) 269-2265
April 22, 1980

Associated Engineers, Inc.
8555 Sixteenth Street
Silver Springs, Maryland 20910
ATTN: Mr. Hans H. Runow

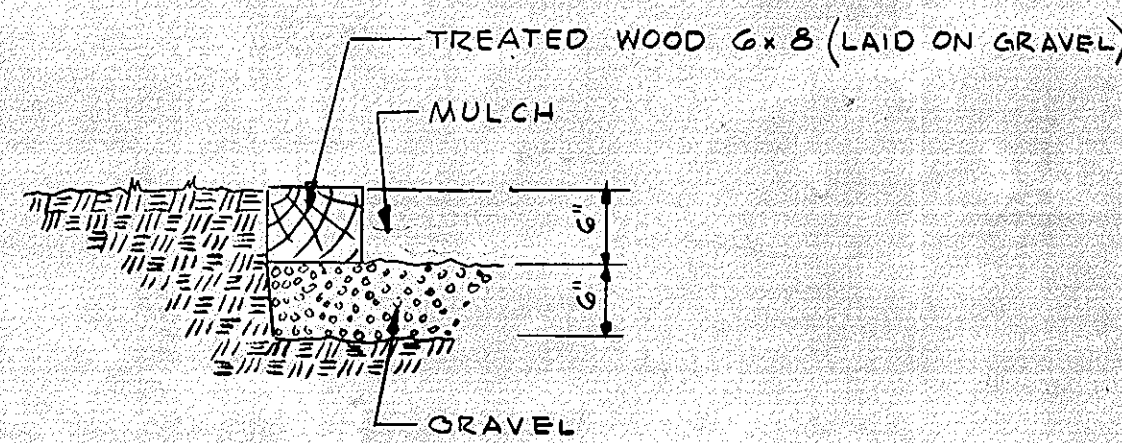
RF: Project No.: 80-SF-0789;
Guilford Elementary School
Additions and Alterations

Gentlemen:
In accordance with Sections 3-905 of the Natural Resources Article, Annotated Code of Maryland, the above referenced project in Howard County has received the necessary review relative to Storm Water Management.

The Administration hereby approves the plans and provisions as presented.

Very truly yours,
H. E. Shaver, Acting Chief
Watershed Permits Division

HFS:mgs

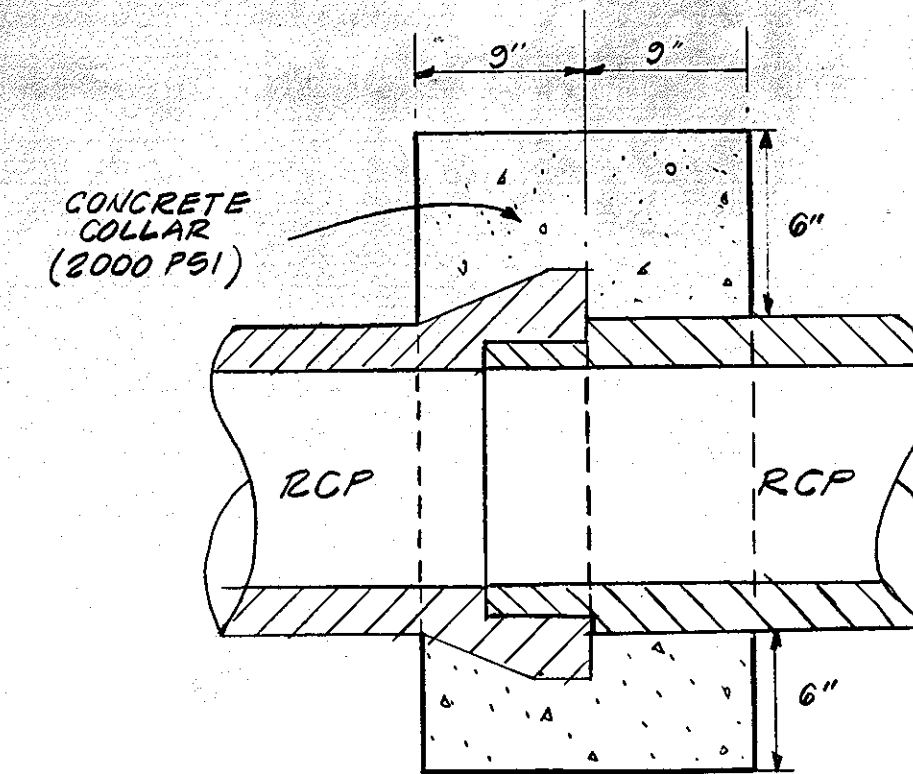


MULCHED PLAY AREA EDGE DETAIL
SCALE: 3/4" = 1'-0"

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature [Signature] Date 8-20-80
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 8-20-80
Howard S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer [Signature] Date 8-29-80
APPROVED, HOWARD COUNTY OFFICE OF
PLANNING AND ZONING
Planning Director [Signature] Date 9-2-80
CHIEF, DIVISION OF LAND
DEVELOPMENT [Signature] Date 9-2-80

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND
STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
Director [Signature] Date 8-26-80
CHIEF, BUREAU OF
ENGINEERING [Signature] Date 8/25/80



TYP. SECTION -
CONCRETE COLLAR
NOT TO SCALE
DETAIL FOR CONNECTION OF REINFORCED
CONC. PIPES OF SAME SIZE AND ALIGNMENT
(REFER TO PROFILES - DRWG. G-3, FOR
LOCATION)

OWNER: BOARD OF EDUCATION
HOWARD COUNTY, MARYLAND
8045 ROUTE 32, COLUMBIA, MD.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-9-80
[Signature]

SDP-80-136

Guilford
Elementary
School
Renovation

Howard County
Public Schools
6TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39

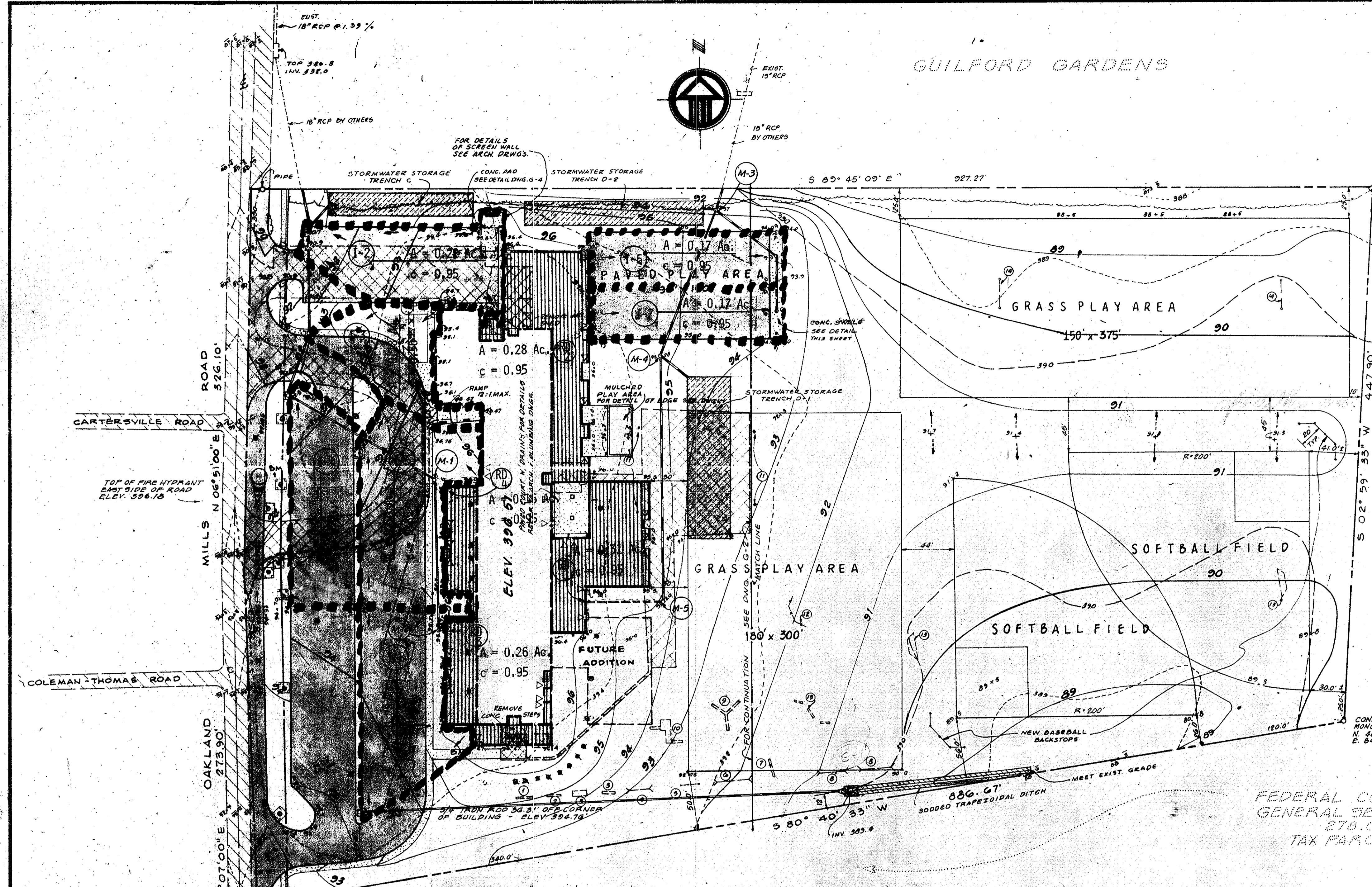
DETAILS

Abraash Eddy & Eckhardt
Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336

ASSOCIATED ENGINEERS, INC.
8555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-586-7311

SCALE: AS SHOWN	
DATE: 6/15/80	G-5
REV: 8-8-80	
SDP-80-136	6 OF 7

GUILFORD GARDENS



TRENCH	DIMENSIONS (FT.)	VOLUME REQUIRED (CU. FT.)	ACTUAL STORAGE (CU. FT.)	TOP TRENCH ELEVATION	BOTTOM TRENCH ELEVATION
C	170.0 x 19.0 x 5.2	11,840	11,856	389.40	384.20
D-1	136.0 x 36.0 x 5.6	27,417	27,417	392.43	386.85
D-2	158.0 x 20.0 x 5.2	17,432	17,432	389.83	385.45

- LEGEND:
- 99.2 --- EXISTING CONTOUR
 - 50.7 --- EXISTING SPOT GRADES
 - 94 --- DESIGN CONTOUR
 - 30.9 --- DESIGN SPOT GRADES
 - [Pattern] EXISTING PAVING TO REMAIN
 - [Pattern] EXISTING PAVING TO BE REMOVED
 - [Pattern] NEW BITUMINOUS CONCRETE PAVING
 - [Pattern] NEW CONCRETE CURB AND GUTTERS
 - [Pattern] STORMWATER MANAGEMENT TRENCH
 - [Pattern] NEW CONCRETE WALK OR SLAB
 - [Symbol] STORM DRAIN STRUCTURES
 - [Symbol] EXISTING TREES TO BE REMOVED
 - [Symbol] EXISTING STORM DRAIN
 - [Symbol] NEW BUILDING ADDITION
 - [Symbol] DRAINAGE DIVIDE
 - [Symbol] FLOW DIRECTION
 - [Symbol] TRIBUTARY AREA
 - [Symbol] RUNOFF COEFFICIENT
 - [Symbol] NEW STORM DRAIN PIPE AND STRUCTURE INLET #4
 - [Symbol] STORMWATER STORAGE TRENCH

Reviewed for Howard S.C.D.
Name

and meets Technical Requirements
James D. Zahn Date 8-20-80
Signature

U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved Robert J. Zahn Date 8-20-80
Howard S.C.D.

FEDERAL COM. COMM.
GENERAL SERVICES ADM.
278.03 AC
TAX PARCEL 230

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 7-9-80
JMM

SCHEDULE OF EXISTING PLAYGROUND EQUIPMENT

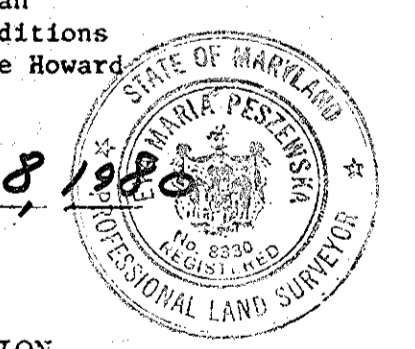
NO.	DESCRIPTION	DISPOSITION
1.	OVERHEAD LADDER	TO BE RELOCATED
2.	CARGO NET	TO BE RELOCATED
3.	BUNKER HILL	TO BE RELOCATED
4.	SWING SET	REMOVE AND DISPOSE
5.	TRIPLE CHINNING BAR	TO BE RELOCATED
6.	SWING SET	REMOVE AND DISPOSE
7.	SLIDE	TO BE RELOCATED
8.	SWING SET	REMOVE AND DISPOSE
9.	CLIMBING STRUCTURE	TO BE RELOCATED
10.	CLIMBING STRUCTURE	TO REMAIN
11.	4 BASKETBALL BACKSTOPS	TO BE RELOCATED

FOR NEW LAYOUT OF PLAYGROUND EQUIPMENT REFER TO ARCH. DRAWINGS.

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 Howard County Soil Conservation District.

Er. Robert J. Zahn August 8, 1980
Signature Date

NO.	DESCRIPTION	DISPOSITION
12.	BASEBALL BACKSTOP	REMOVE AND DISPOSE
13.	SOCCOR GOAL POST	TO BE RELOCATED
14.	GOAL POST	TO BE RELOCATED
15.	PIPE TUNNEL	REMOVE AND DISPOSE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James D. Zahn 8-19-80
DATE

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James D. Zahn 9-2-80
DATE

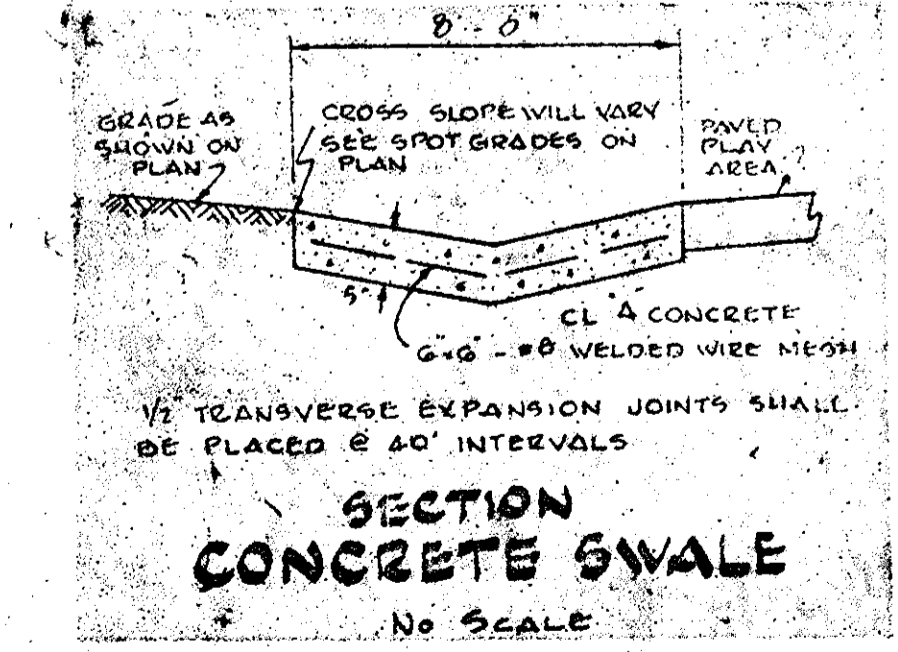
CHIEF DIVISION OF LAND DEVELOPMENT
James D. Zahn 9-2-80
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Steve F. Neumyer 8-26-80
DATE

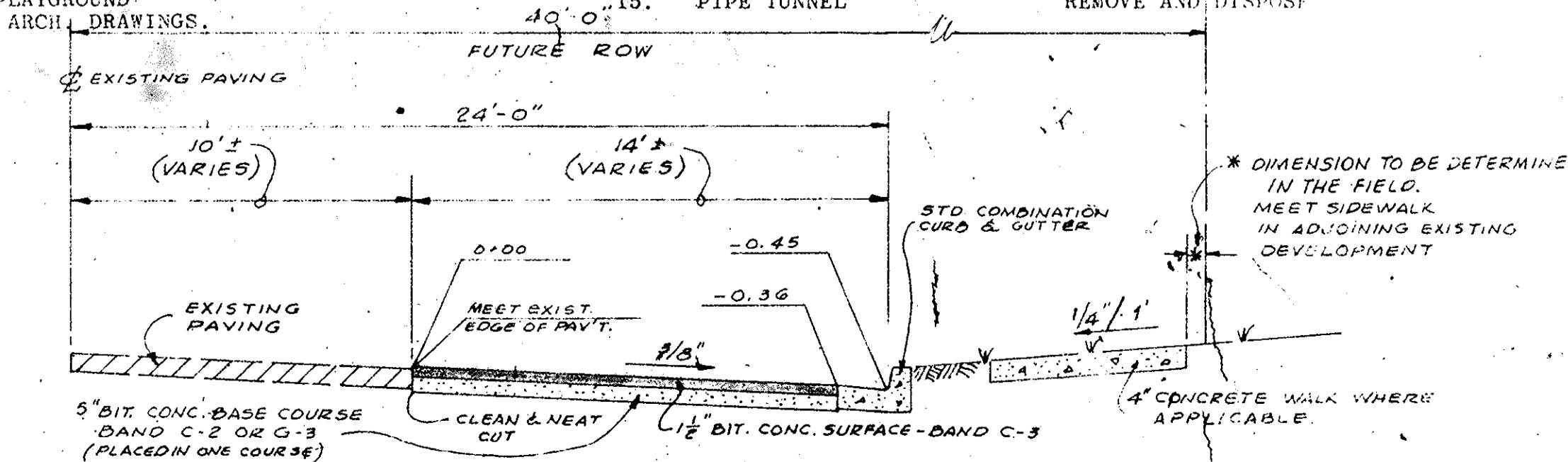
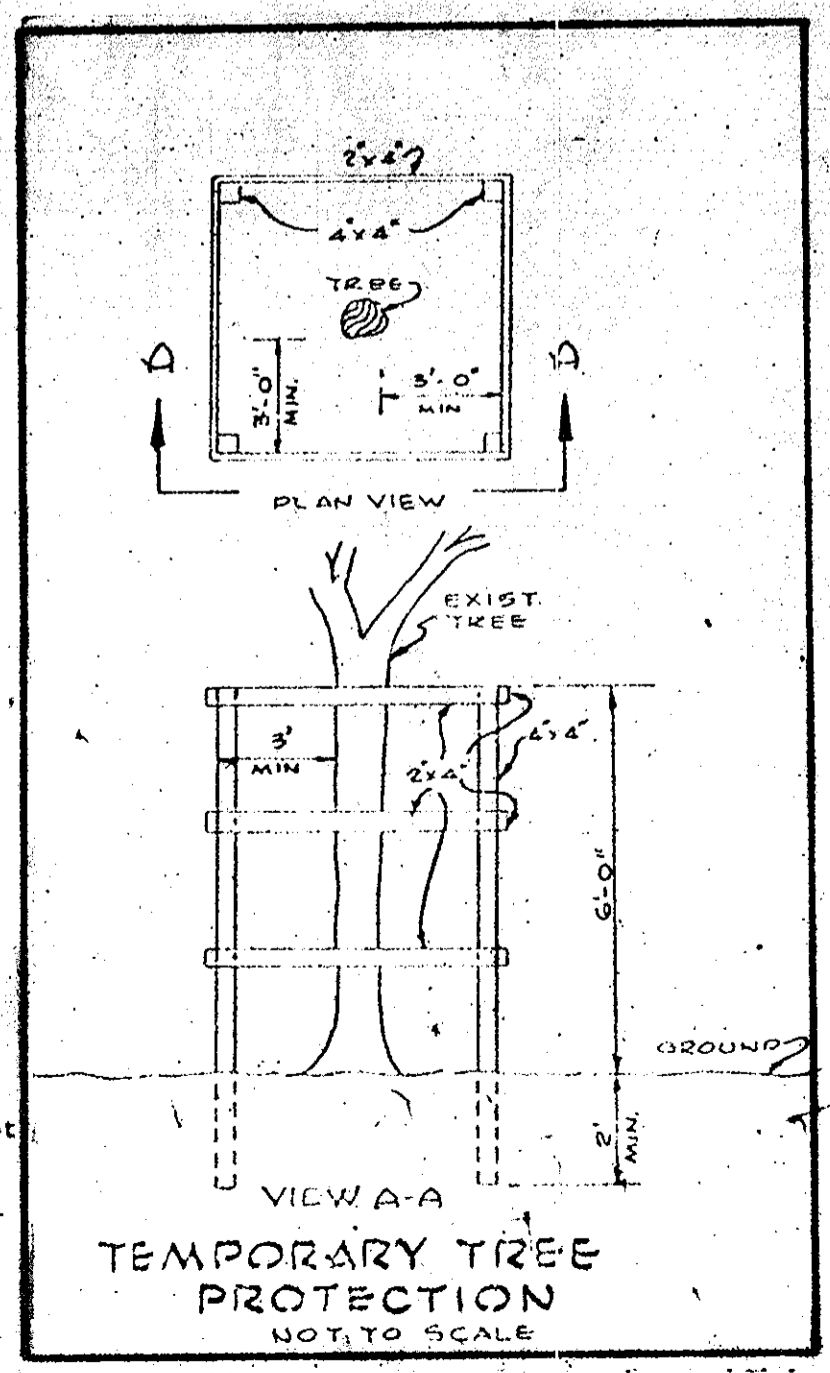
John J. Kelly 8-12-80
DATE

SDP-80-136
Guilford Elementary School Renovation
Howard County Public Schools
6TH ELECTION DISTRICT
TAX MAP 42, PARCEL 39
DRAINAGE DIVIDES.

Abrash Eddy & Eckhardt Architects
11418 Washington Plaza
Reston Virginia 22090
703 471 6336



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 County Soil Conservation District.
Donald J. Begany 8-11-80
Signature Date



APPROVED FOR PUBLIC WATER AND PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Steve F. Neumyer 8-26-80
DATE

John J. Kelly 8-12-80
DATE

ASSOCIATED ENGINEERS, INC.
8535 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL 301 589-7311

SCALE: AS SHOWN
DATE: 6/13/80
REV. 8-8-80
DD-1
7 OF 7