SCHOOLEY MILL PARK

PHASE II

CLARKSVILLE, MARYLAND

HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

PROJECT NUMBER: N3082 AA

MAY 1991

DESIGN TEAM:

JOHN BRUNNETT, ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

EGLI & GOMPF, INC. (MECH./ELEC.)
5801 MORAVIA ROAD
SUITE 5807
BALTIMORE, MARYLAND 21206

THE WATKINS PARTNERSHIP (STRUC.)
1651 CROFTON BLVD.
SUITE 7
CROFTON, MARYLAND 21114

FARRAND & ENGLISH (CIVIL)
416 LYMAN AVE.
BALTIMORE, MARYLAND 21212

SDP 91-42

ABBREVIATIONS

ACT	ACOUSTICAL TILE
AFF	ABOVE FINISH FLOOR
ALI	ACOUSTICAL LAY-IN
ALUM	ALUMINUM
AnAL	ANODIZED ALUMINUM
BC	BOTTOM OF CURB
BTC	BITUMINOUS CONCRETE
CRPT	CARPET
CT	CERAMIC TILE
CJ	CONTROL JOINT
CL	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
CMU	CONCRETE MASONRY UNIT
DB	DIRECT BURIAL
DS	DOWNSPOUT
EdB	EDGE BAND
ELEV	ELEVATION
ETR	EXISTING TO REMAIN
EXIST	EXISTING
FBGL	FIBERGLASS
FE	FIRE EXTINGUISHER
GB	GRAB BAR
GWB	GYPSUM WALLBOARD
GA	GAUGE
GALV	GALVANIZED
HAP	HELICAL ALUMINUM PIPE
HM	HOLLOW METAL
INSUL	INSULATION
INCL	INCLUDED
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTL	METAL
N.I.C.	NOT IN CONTRACT
OC	ON CENTER
PCC	PORTLAND CEMENT CONCRETE
Plm	PLASTIC LAMINATE
PTD	PAINTED
PT	PRESERVATIVE TREATED
S	SEWER
SAT	SUSPENDED ACOUSTICAL TILE
SD	STORMDRAIN
SIM	SIMILAR
TC	TOP OF CURB
TF	TOP OF FOOTING
TRAN	TRANSITION STRIP
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
WLCVR	WALLCOVERING
W/	WITH
W	WATER
WD	WOOD
WR	WATER RESISTANT
WdVn	WOOD VENEER
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES (5) FIVE DAYS PRIOR TO THE START OF WORK:
   MISS UTILITIES
   HOWARD COUNTY INSPECTIONS AND PERMITS
   HOWARD COUNTY BUREAU OF UTILITIES

2. BUILDING USE GROUP:

		TYPE OF CONSTRUCTION	AREA	HEIGHT
MAINTENANCE BLDG	S-1	2C	3070 SF	32 FT
MULTI-PURPOSE BLDG	A-3	2C	3851 SF	36 FT
CONCESSION BLDG	A-3	2C	1441 SF	32 FT
MARLOW HOUSE	B	5B (EXIST)	680 SF	25 FT

3. ALL PLUMBING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE BOCA NATIONAL PLUMBING CODE, LATEST EDITION, AND SHALL BE SUBJECT TO FIELD INSPECTION.
4. ALL ELECTRICAL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND SHALL BE SUBJECT TO FIELD INSPECTION.
5. ALL MECHANICAL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE BOCA NATIONAL MECHANICAL CODE, LATEST EDITION, AND SHALL BE SUBJECT TO FIELD INSPECTION.
6. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE BOCA NATIONAL BUILDING CODE, LATEST EDITION, AND SHALL BE SUBJECT TO FIELD INSPECTION.
7. ALL INTERIOR FLOOR, WALL AND CEILING FINISHES SHALL MEET BOCA AND NFPA REQUIREMENTS.
8. CONSTRUCTION OF FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UNDERWRITER'S LABORATORIES' FIRE RESISTANCE DIRECTORY, LATEST EDITION. THE CONTRACTOR SHALL PROVIDE MATERIALS AND METHODS IN STRICT COMPLIANCE WITH THE UL DESIGNS DESIGNATED ON THESE DRAWINGS.
9. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THE SCOPE AND LIMITS OF NEW WORK.
10. THE STRUCTURE(S) HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:
    FLOOR - 125 PSF
    ROOF - 30 PSF
    WIND - 70 MPH (CLASS I, EXPOSURE C)

LEGEND

BRICK

CONCRETE MASONRY UNIT

CONCRETE

DRAINAGE FILL

EARTH

INSULATION

PLYWOOD

METAL

FINISH WOOD

WOOD FRAMING

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JOHN BRUNNETT
ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY
DEPARTMENT OF
PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

INDEX OF DRAWINGS
GENERAL NOTES
ABBREVIATIONS
LEGEND

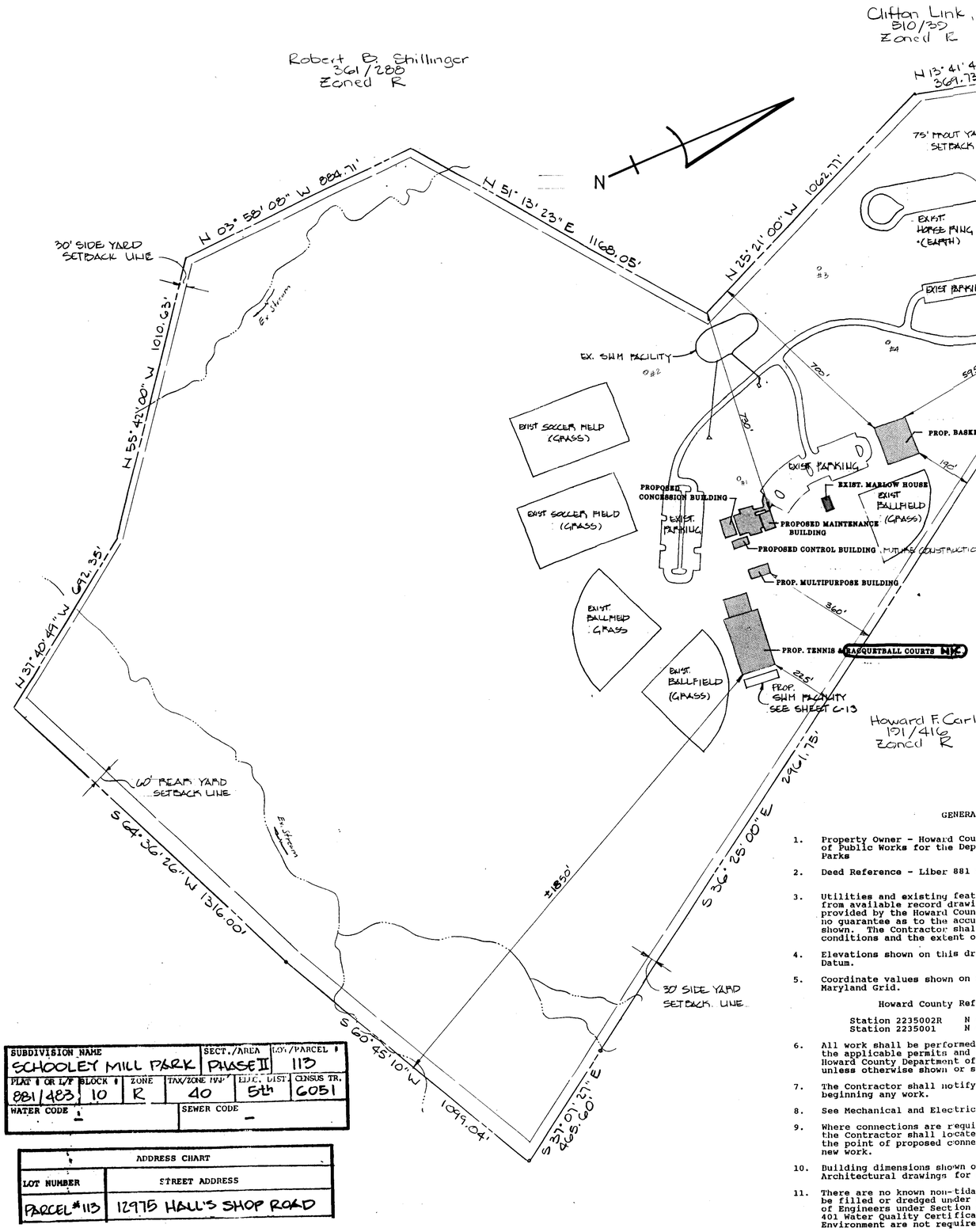
PROJECT NUMBER:
N3082 AA
DATE:

SCALE:
5/91
REVISIONS: DATE:

SHEET #__ OF __

G-1

SDP 91-42



VICINITY MAP SCALE: 1" = 2000'

SITE ANALYSIS

a. Area of Parcel - 172.633 acres ±
7,519,900 sq. ft. ±

b. Present Zoning - R

c. Existing Use - Public Park
Proposed Use - Public Park
Proposed Structures - Maintenance Building
Control Building
Concession Building
Multi-Purpose Building

d. Floor Area - Maintenance Building - 3,000 s.f.
Control Building - 1,200 s.f.
Concession Building - 1,600 s.f.
Multi-Purpose Building - 4,500 s.f.

~~e. Total Number of Units Allowed — N/A~~

~~f. Total Number of Units Provided — N/A~~

~~g. Minimum Square Foot Floor Area — N/A~~

h. Maximum Number of Employees Per Shift - 15

i. Number of Parking Spaces Required - N/A

j. Number of Parking Spaces Provided - 234 Existing STANDARD PARKING SPACES
16 EXIST. HANDICAP SPACES
(-9) PROPOSED STANDARD SPACES DELETED
246 TOTAL PROPOSED SPACES

k. Open Space - 166.04 ac±
96.2 % of Net Area

l. Building/Paving Coverage - 6.59 ac±
3.8 % of Gross Area

m. Site Changes - Proposed Structures (Maintenance Building, Control Building, Concession Building, Multi-Purpose Building)
Basketball Courts (2)
Tennis Courts (4)
Misc. Walkway Relocations
Landscaping

GENERAL NOTES

1. Property Owner - Howard County, Maryland, Department of Public Works for the Department of Recreation and Parks

2. Deed Reference - Liber 881 Folio 483

3. Utilities and existing features shown on these drawings are plotted from available record drawings and a topographic survey of the site provided by the Howard County Department of Public Works. There is no guarantee as to the accuracy or completeness of the information shown. The Contractor shall satisfy himself as to the actual site conditions and the extent of work required under the contract.

4. Elevations shown on this drawing are referred to Howard County Datum.

5. Coordinate values shown on these drawings are referred to State of Maryland Grid.

Howard County Reference Control Points

Station 2235002R	N 486,115.371	E 809,032.308
Station 2235001	N 486,762.154	E 809.405.526

6. All work shall be performed in accordance with the requirements of the applicable permits and shall conform to the requirements of the Howard County Department of Public Works Standard Specifications unless otherwise shown or specified.

7. The Contractor shall notify MISS UTILITY (1-559-0100) before beginning any work.

8. See Mechanical and Electrical drawings for exterior utility work.

9. Where connections are required to existing utilities and drains, the Contractor shall locate, by test pit, the existing utility at the point of proposed connection before beginning construction of new work.

10. Building dimensions shown on this drawing are approximate. See Architectural drawings for exact dimensions.

11. There are no known non-tidal wetlands or water courses which will be filled or dredged under this contract. Permits from the Corps of Engineers under Section 404 of the Clean Water Act and Section 401 Water Quality Certification from the Maryland Department of the Environment are not required.

12. EXTERIOR LIGHTING PROVIDED UNDER THIS DEVELOPMENT PLAN SHALL BE DIRECTED/REFLECTED AWAY FROM ALL SURROUNDING RESIDENTIAL ZONING DISTRICTS.

SUBDIVISION NAME		SECT./AREA	LOT/PARCEL #
SCHOOLEY MILL PARK		PHASE II	113
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
881/483	10	R	40	5th	6051
WATER CODE 1		SEWER CODE -			

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
PARCEL #113	12975 HALL'S SHOP ROAD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Director of Planning — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/11/91

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 1/20/91

Chief, Bureau of Engineering — Date 11-20-90

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

JOHN BRUNNETT ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS # N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

PROJECT NUMBER: N3082 AA

DATE: 9-25-90

SCALE: 1" = 200'

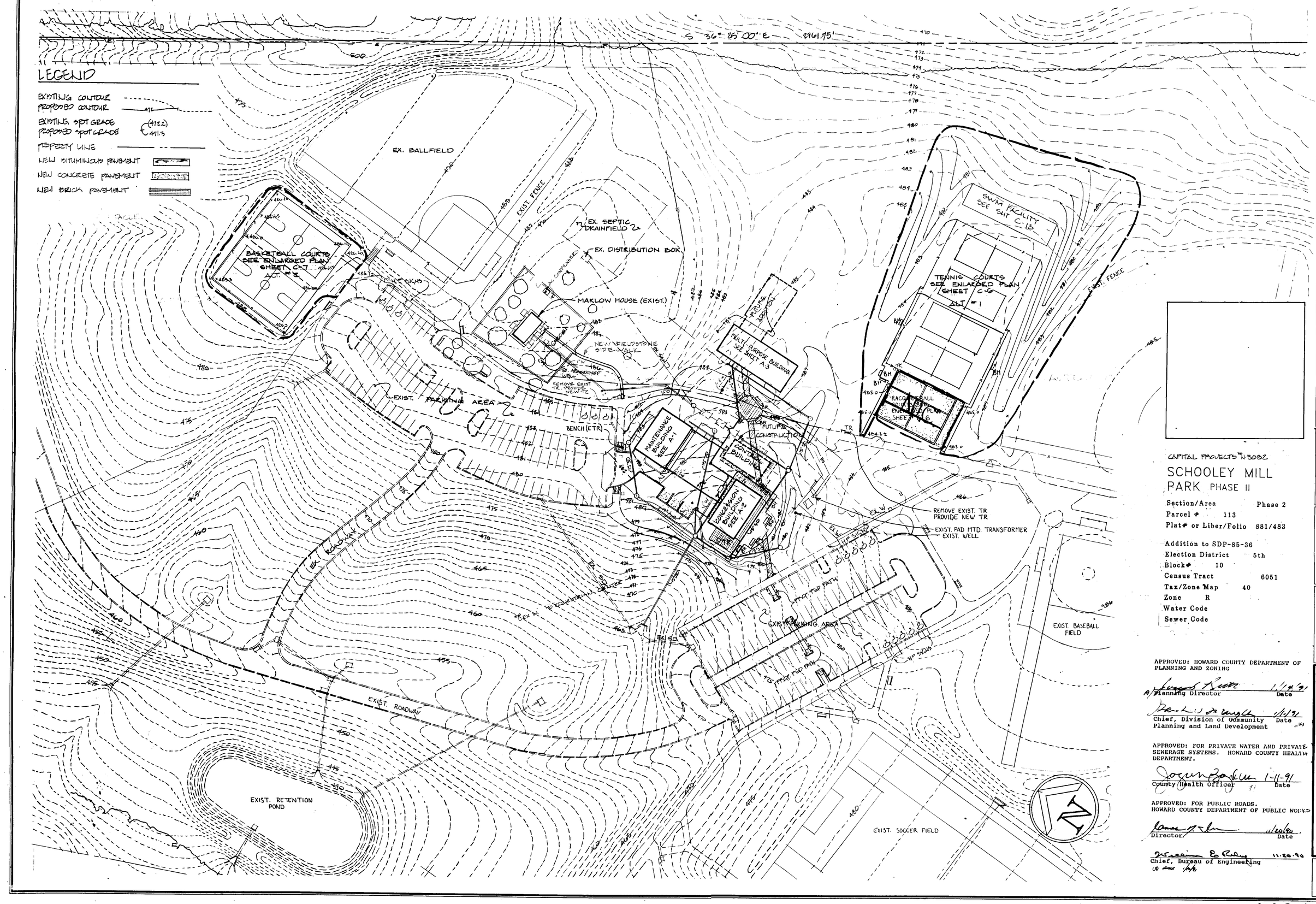
REVISIONS: #1 DATE:

SHEET #1 OF —

SITE PLAN

C 1

SDP-91-42



CAPITAL PROJECTS N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area Phase 2
Parcel # 113
Plat# or Liber/Folio 881/483

Addition to SDP-85-36
Election District 5th
Block# 10
Census Tract 6051
Tax/Zone Map 40
Zone R
Water Code
Sewer Code

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

A/ Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/1/91

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/20/90

Chief, Bureau of Engineering — 11-20-90

REVISION | DATE

JOHN BRUNNETT ARCHITECT, P.A.

STATE OF MARYLAND

APPROVED BY

PROJECT NUMBER N-3082 AA
DRAWN BY
SCALE 1" = 50'
DATE 10/88

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

GRADING PLAN

SHEET NUMBER OF C-2

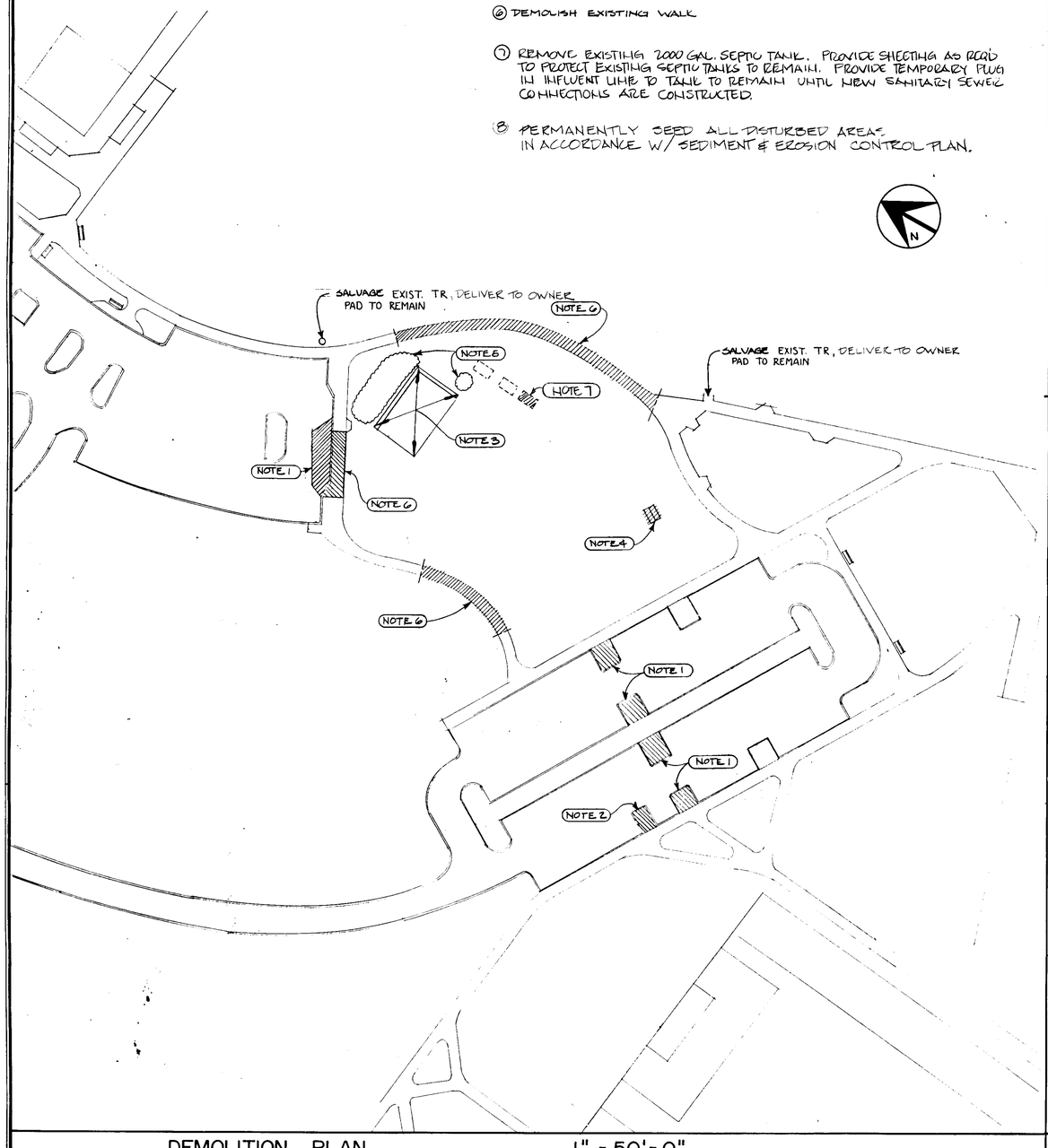
SDP-91-42

DEMOLITION NOTES

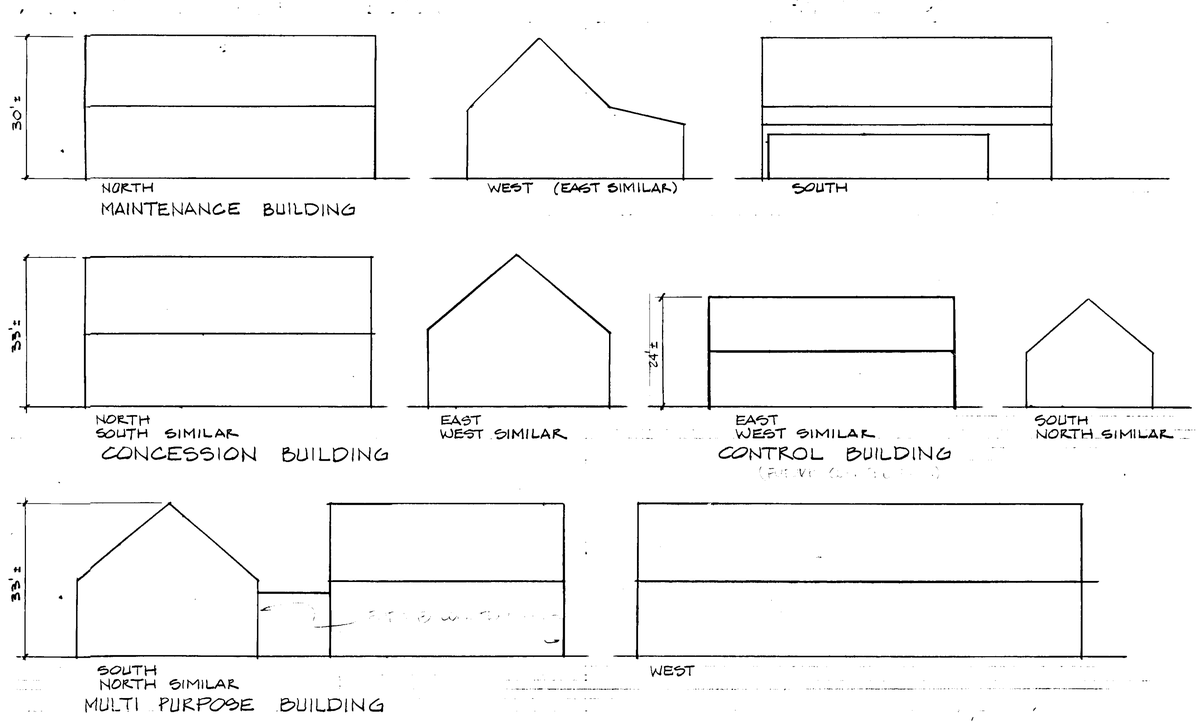
THE CONTRACTOR SHALL COORDINATE THE EXTENT AND THE LIMITS OF DEMOLITION WITH NEW WORK. DISPOSE OF ALL ITEMS INDICATED TO BE DEMOLISHED OR REMOVED, AT OFF-SITE LOCATION IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.

ITEMS INDICATED TO BE "SALVAGED" SHALL BE DELIVERED TO THE OWNER IN GOOD CONDITION.

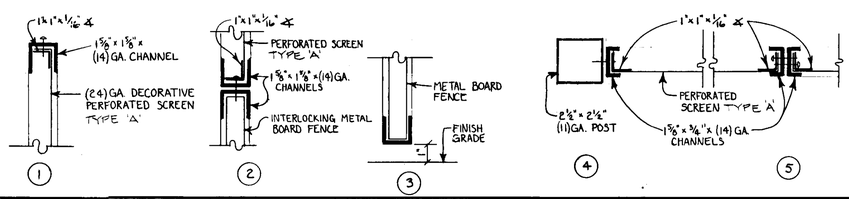
1. SAWCUT EXISTING PAVING. REMOVE PAVING & BASE MATERIALS DOWN TO EARTH.
2. SAWCUT EXISTING P.C.C. CURB/GUTTER. DEMOLISH EXISTING PARKING LOT ISLAND INCLUDING ALL CURB/GUTTER. EXCAVATE TO SUBGRADE FOR NEW PAVING INFILL.
3. DEMOLISH EXISTING STRUCTURE INCLUDING WALLS, FOUNDATIONS, FOOTINGS, & SLAB.
4. DEMOLISH EXISTING SHED, SLAB & FOUNDATION AFTER UTILITIES HAVE BEEN RELOCATED TO NEW MECHANICAL ROOM.
5. REMOVE EXISTING TREES, SHRUBS & BRUSH.
6. DEMOLISH EXISTING WALK.
7. REMOVE EXISTING 2000 GAL. SEPTIC TANK. PROVIDE SHEETING AS REQ'D TO PROTECT EXISTING SEPTIC TANKS TO REMAIN. PROVIDE TEMPORARY PLUG IN INFLUENT LINE TO TANK TO REMAIN UNTIL NEW SANITARY SEWER CONNECTIONS ARE CONSTRUCTED.
8. PERMANENTLY SEED ALL DISTURBED AREAS IN ACCORDANCE W/ SEDIMENT & EROSION CONTROL PLAN.



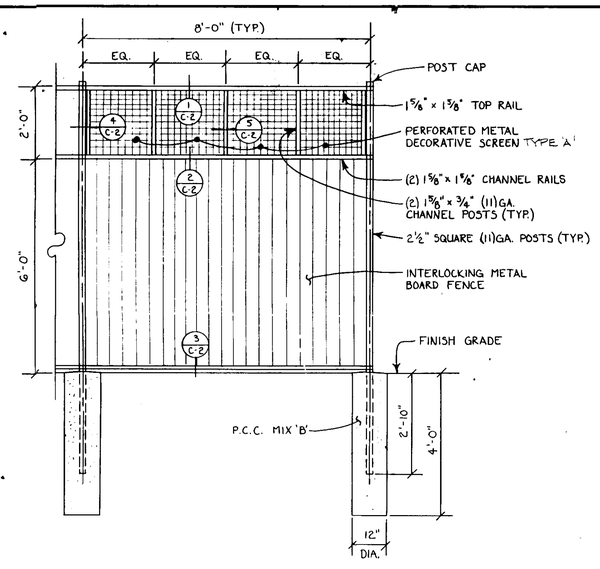
DEMOLITION PLAN 1" = 50'-0"



ELEVATIONS 1/16" = 1'-0"



SECTION DETAILS FENCE TYPE 'A' 3"=1'-0"



ELEVATION FENCE TYPE 'A' 3"=1'-0"

CAPITAL PROJECTS # 11-3082

SCHOOLEY MILL PARK PHASE II

Section/Area Phase 2
Parcel # 113
Plat# or Liber/Folio 881/483

Addition to SDP-85-36
Election District 5th
Block# 10
Census Tract 6051
Tax/Zone Map 40
Zone R
Water Code
Sewer Code

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/11/91

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/26/90

Chief, Bureau of Engineering — Date 11-20-90

REVISION	DATE

JOHN BRUNNETT ARCHITECT, P.A.

APPROVED BY

PROJECT NUMBER N3082 AA
DRAWN BY
SCALE AS SHOWN
DATE 10/88

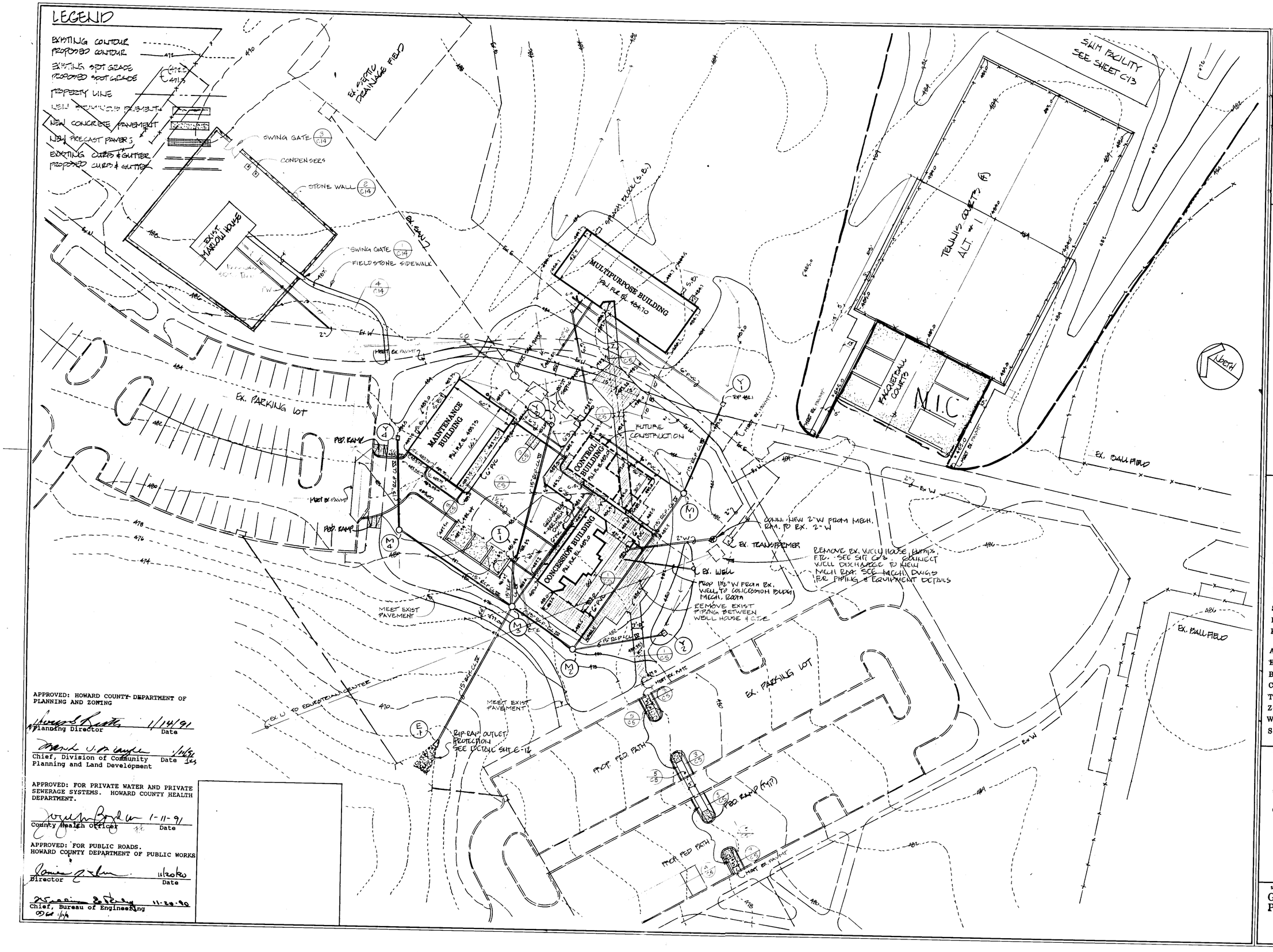
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

DEMOLITION PLAN / DETAILS

SHEET NUMBER C-3 OF

SDP-91-42



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HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
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CAPITAL PROJECT # N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

PROJECT NUMBER: N3082 AA

DATE: 9-25-90

SCALE: 1" = 30'

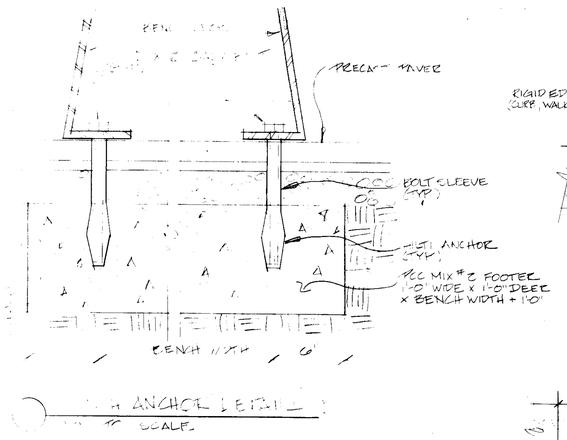
REVISIONS: DATE:

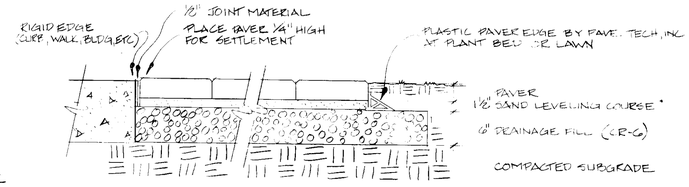
SHEET # ___ OF ___

GRADING and UTILITY PLAN

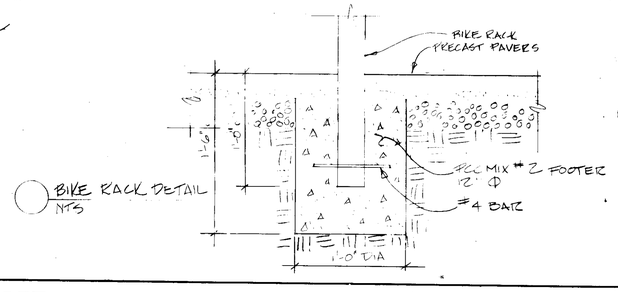
C-4

SDP-91-42

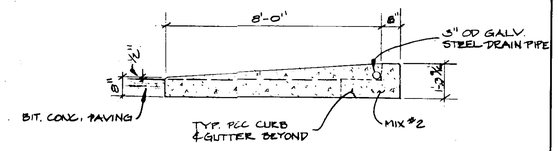




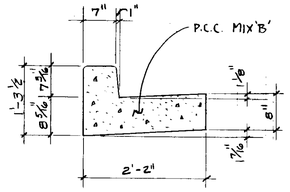
1 PRECAST PAVER SECTION



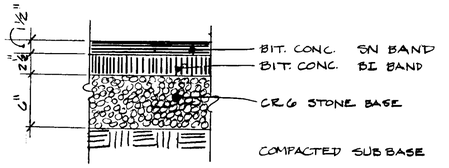
BIKE RACK DETAIL
NTS



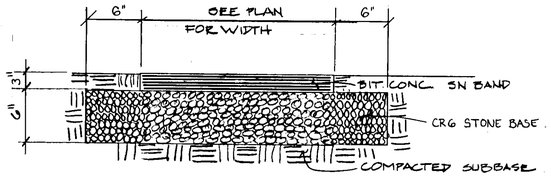
2 SECTION THRU EQPT. CURB RAMP
3/8" = 1'-0"



3 CURB & GUTTER SECTION

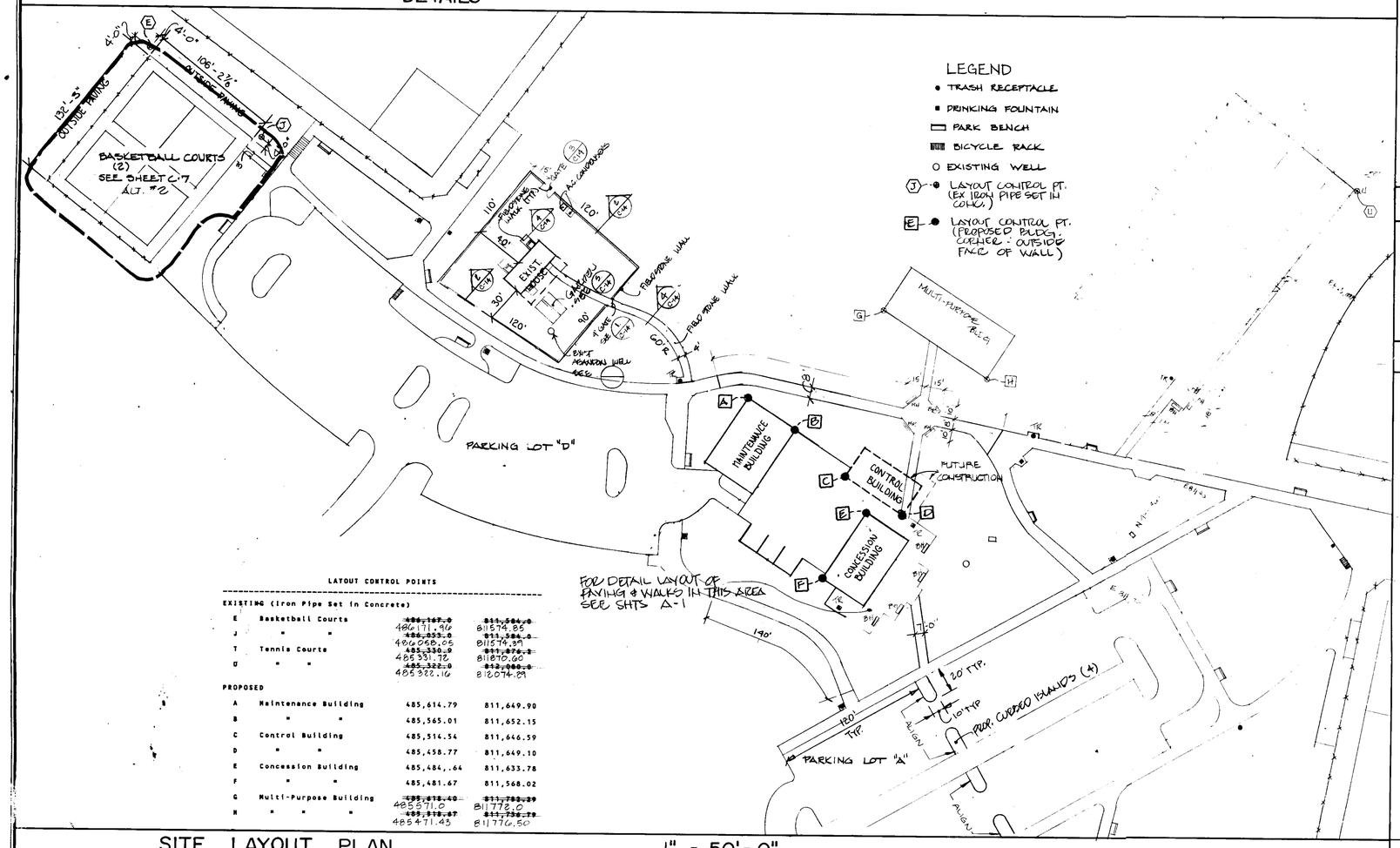


4 PARKING LOT / ROADWAY PAVING SECTION



5 WALKPATH PAVING SECTION

DETAILS

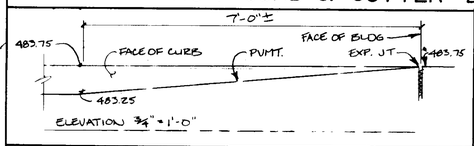


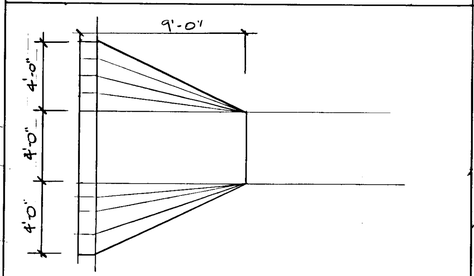
LAYOUT CONTROL POINTS

EXISTING (Iron Pipe Set in Concrete)			
E	Basketball Courts	~~485,167.0~~ 486171.90	~~811,584.0~~ 811574.85
J	" "	~~486,053.0~~ 486065.05	~~811,584.0~~ 811574.39
T	Tennis Courts	~~485,330.0~~ 485331.78	~~811,876.2~~ 811870.60
U	" "	~~485,322.0~~ 485322.16	~~812,090.0~~ 812074.91
PROPOSED			
A	Maintenance Building	485,614.79	811,649.90
B	" "	485,565.01	811,652.15
C	Control Building	485,514.54	811,646.59
D	" "	485,458.77	811,649.10
E	Concession Building	485,484,.64	811,633.78
F	" "	485,481.67	811,568.02
G	Multi-Purpose Building	~~485,618.40~~ 485571.0	~~811,783.29~~ 811772.0
H	" " "	~~485,618.47~~ 485471.45	~~811,736.79~~ 811776.50

SITE LAYOUT PLAN 1" = 50'-0"

PAVING / CURB & GUTTER DETAILS 1/2"=1'-0"





PEDESTRIAN RAMP

CAPITAL PROJECTS # N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/11/91 EKS

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/20/90

Chief, Bureau of Engineering — Date 11-20-90

(D.P.W. 1/4/91)

REVISION	DATE
#1 ELIMINATED 6 LAYOUT REVISED	11/26/91

JOHN BRUNNETT ARCHITECT, P.A.

APPROVED BY

PROJECT NUMBER N 3082 AA | DRAWN BY | SCALE AS NOTED | DATE

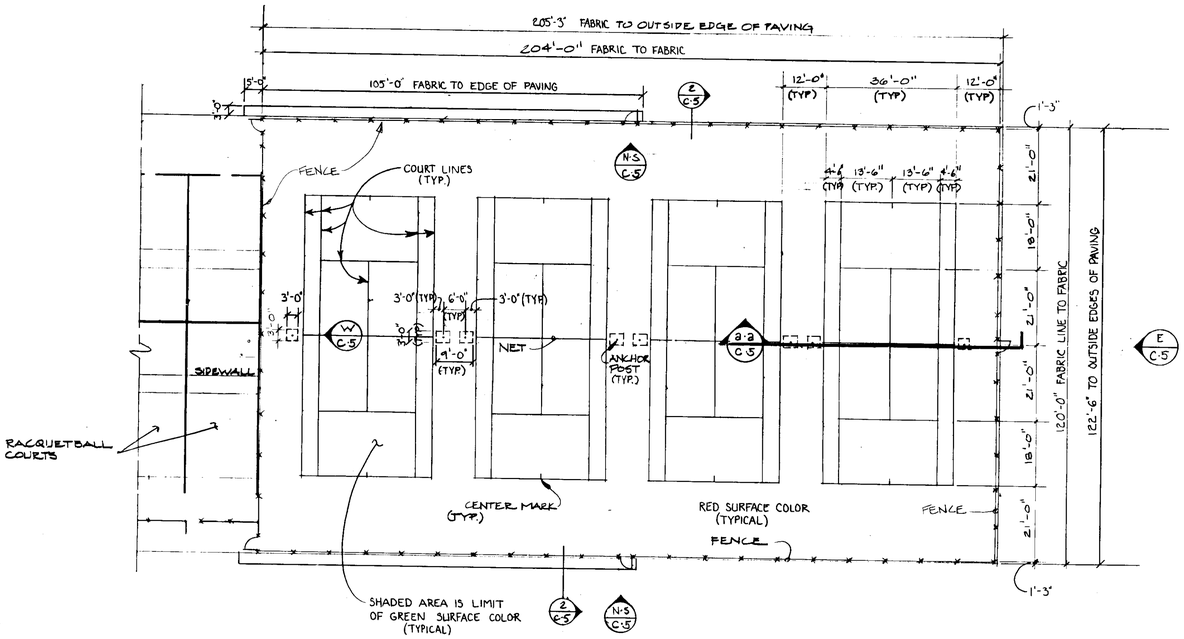
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

LAYOUT PLAN · DETAILS

SHEET NUMBER C-5 OF

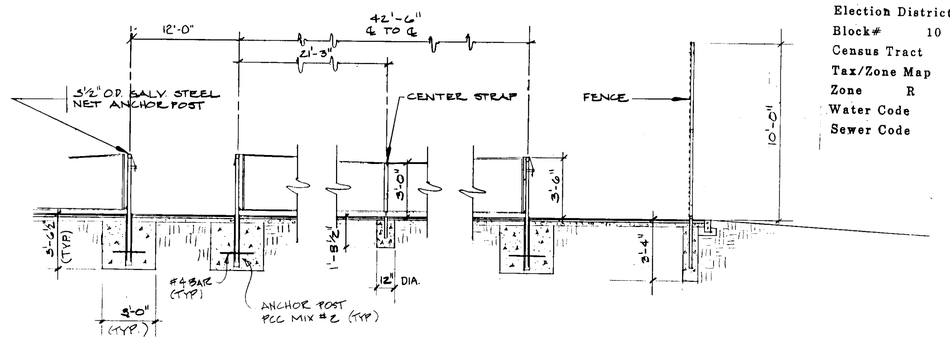
SDP-91-42



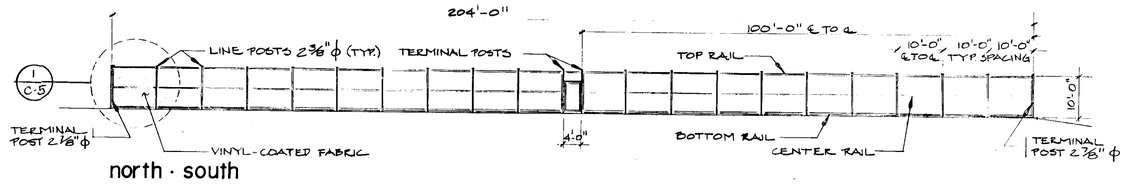
NOTES;
1. ALL LINES SHALL BE WHITE IN COLOR AND 2" WIDE.

ALTERNATE #1

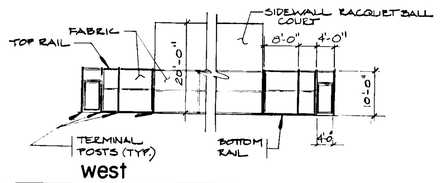
TENNIS COURT PLAN — 1" = 20'-0"



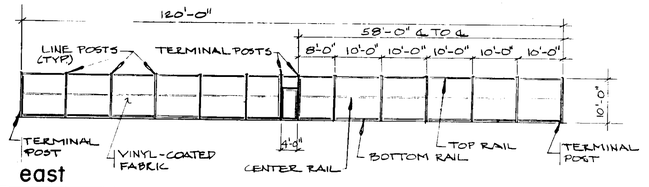
SECTION a·a — 1/4" = 1'-0"



north · south



west



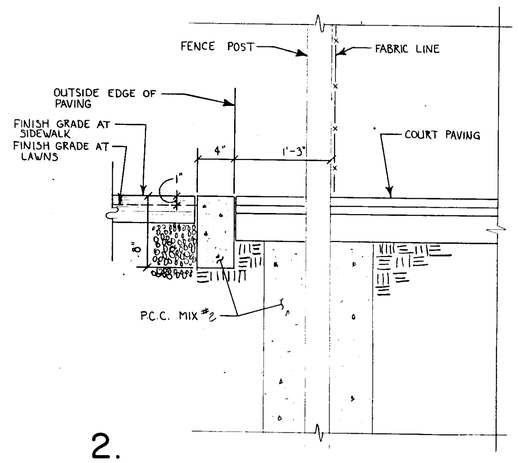
east

ELEVATIONS — 1/16" = 1'-0"

HOT-MIX ASPHALT PAVING SECTION

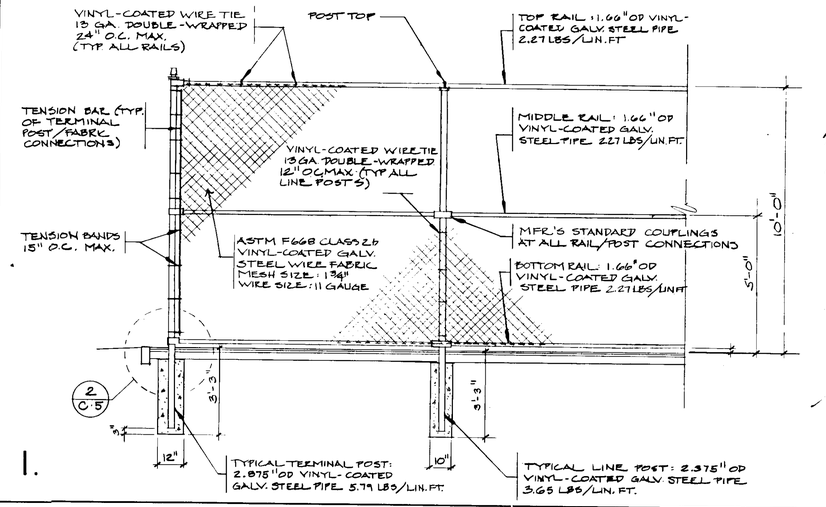
	COMPACTED THICKNESS	MIXTURE DESIGNATION
SURFACE COURSE	1"	ST BAND
LEVELING COURSE	1"	SN BAND
BASE COURSE	3"	BI BAND
COMPACTED SUBGRADE		

PAVING SECTION, TENNIS & BASKETBALL COURTS



2.

SECTION DETAIL



1.

FENCE DETAILS — 3/8" = 1'-0"

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/1/91

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

County Health Officer — Date 1-1-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/26/90

Chief, Bureau of Engineering — Date 11-20-90

CAPITAL PROJECTS # H-3082

SCHOOLEY MILL PARK PHASE II

Section/Area Phase 2
Parcel # 113
Plat# or Liber/Folio 881/483
Addition to SDP-85-36
Election District 5th
Block# 10
Census Tract 6051
Tax/Zone Map 40
Zone R
Water Code
Sewer Code

REVISION	DATE

JOHN BRUNNETT ARCHITECT, P.A.

APPROVED BY

PROJECT NUMBER N 3082 AA
DRAWN BY
SCALE AS NOTED
DATE

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

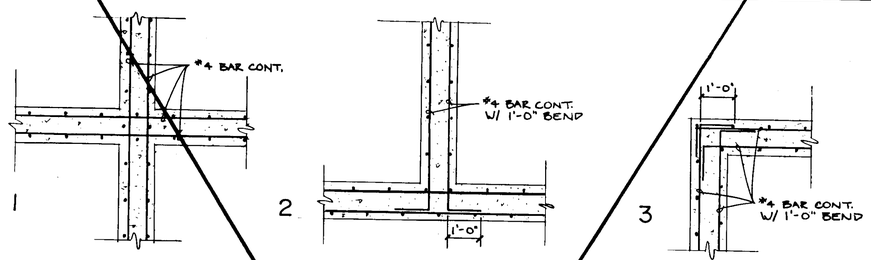
SCHOOLEY MILL PARK PHASE II

TENNIS COURT PLAN · ELEVATIONS

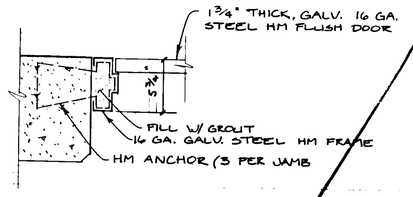
SHEET NUMBER C·6 OF

SDP-91-42

STRUCTURAL NOTES · RACQUETBALL CT.

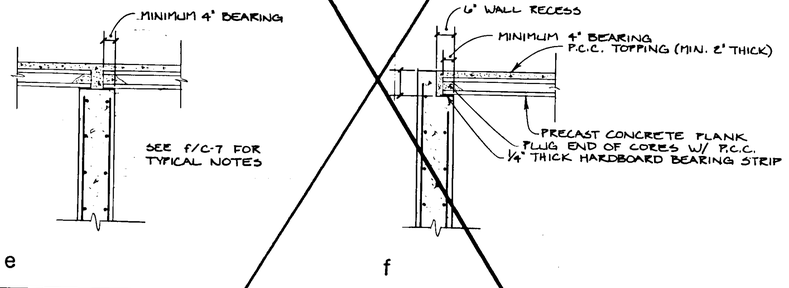


JAMB DETAIL



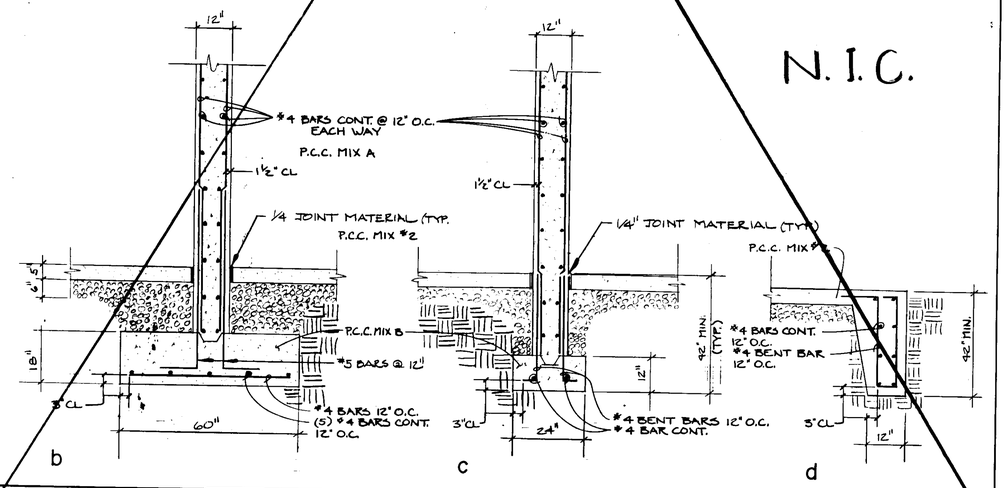
PLAN DETAILS · RACQUETBALL COURT 1/2"=1'-0"

NOTE:
GROUT KEYS BETWEEN PLANKS AFTER ERECTION.

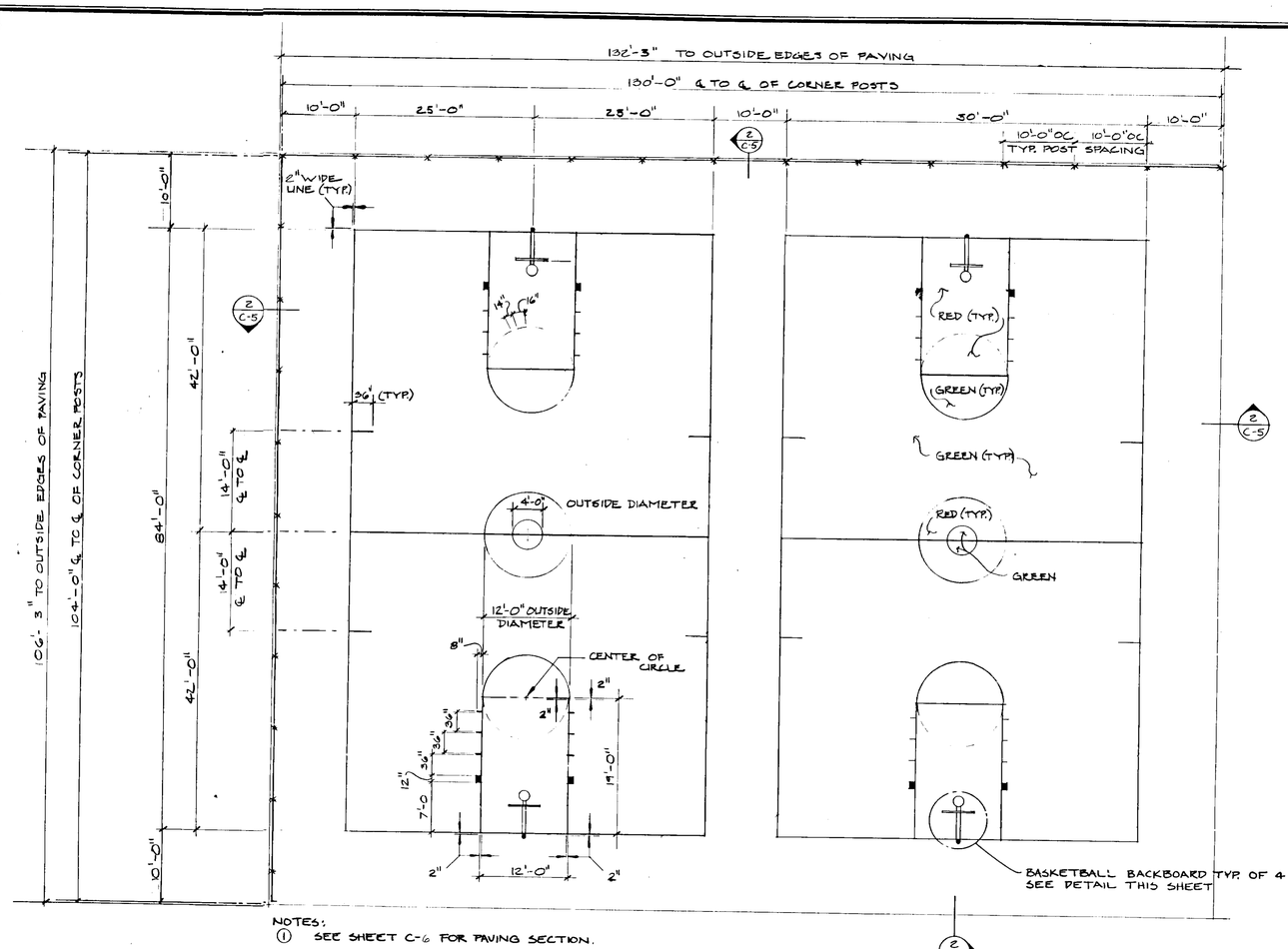


ROOF SECTION DETAILS · RACQUETBALL COURT 1/2" = 1'-0"

N.I.C.



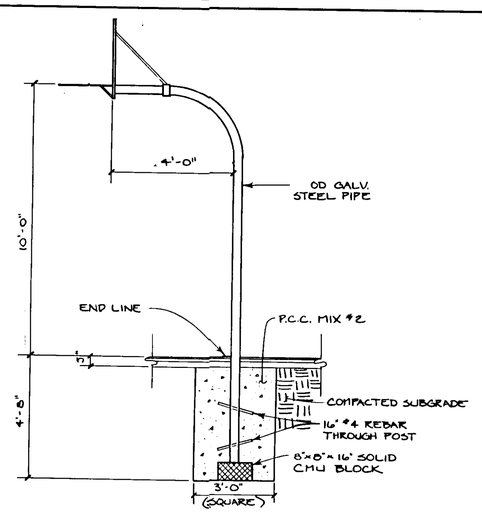
FOUNDATION SECTION DETAILS · RACQUETBALL COURT 1/2" = 1'-0"



NOTES:
1. SEE SHEET C-6 FOR PAVING SECTION.
2. ALL LINES SHALL BE WHITE, 2" WIDE, EXCEPT AS NOTED.
3. SEE DETAIL VC-6 FOR TYPICAL FENCE

ALTERNATE #2

BASKETBALL COURT PLAN 1" = 10'-0"



BASKETBALL BACKBOARD N.T.S.

CAPITAL PROJECTS # H-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 11/4/91

Chief, Division of Community Planning and Land Development — Date 10/31/91 DKS

APPROVED: FOR PRIVATE WATER AND PRIVAT SEWERAGE SYSTEMS. HOWARD COUNTY HEALT DEPARTMENT.

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WOF

Director — Date 11/20/90

Chief, Bureau of Engineering — 11.20.90
00 ac 11/4/91

REVISION	DATE
#1	

JOHN BRUNNETT ARCHITECT, P.A.

APPROVED BY

PROJECT NUMBER N3082AA | DRAWN BY | SCALE AS SHOWN | DATE 10/88

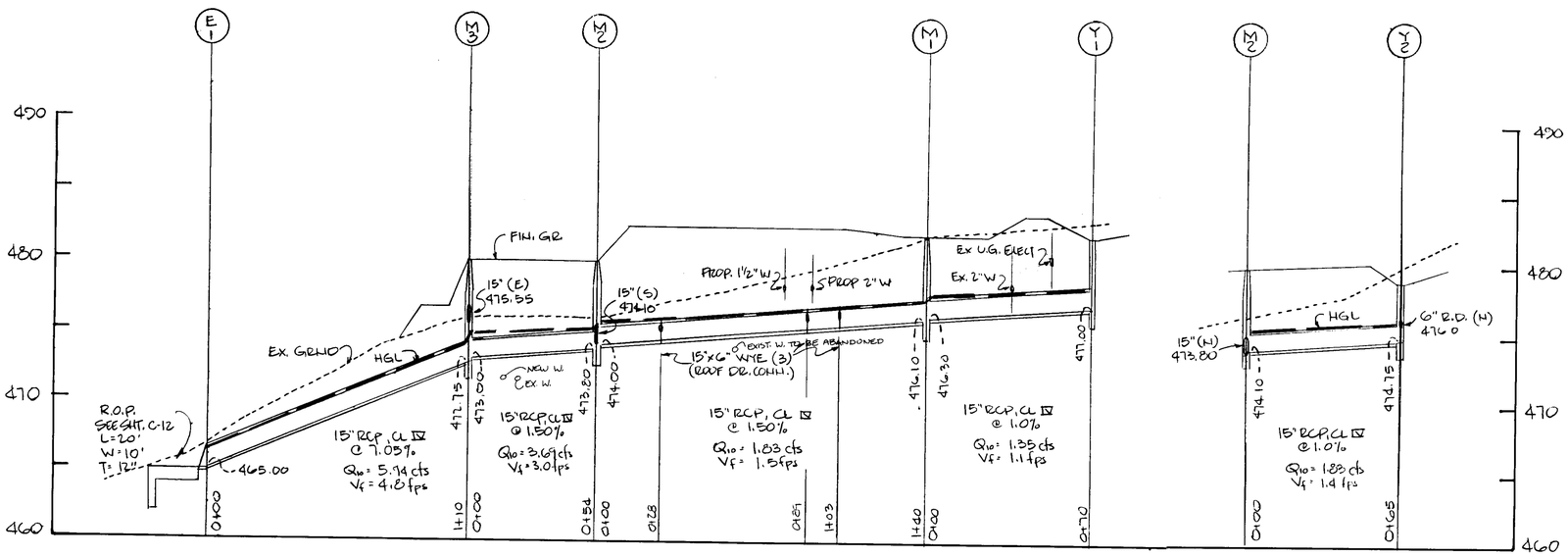
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

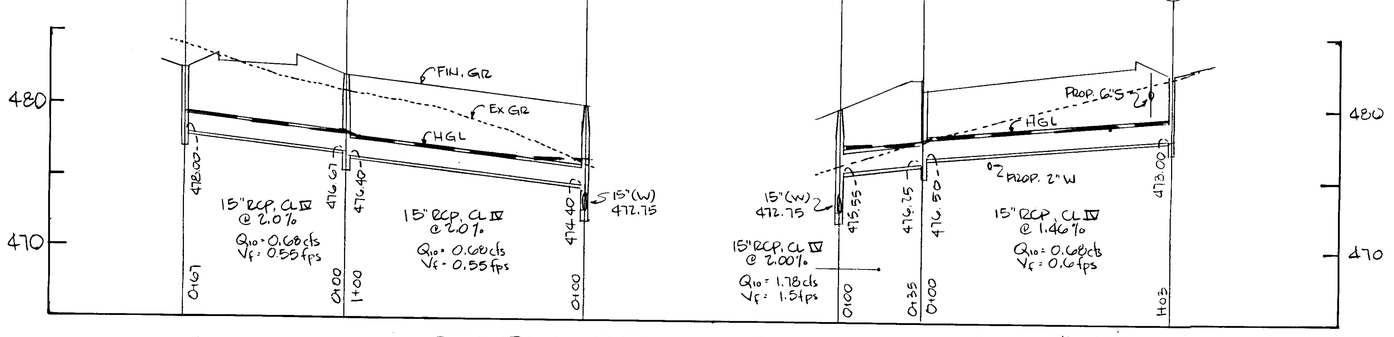
SCHOOLEY MILL PARK PHASE II

BASKETBALL COURT PLAN/ ELEVATIONS

SHEET NUMBER C-7 OF

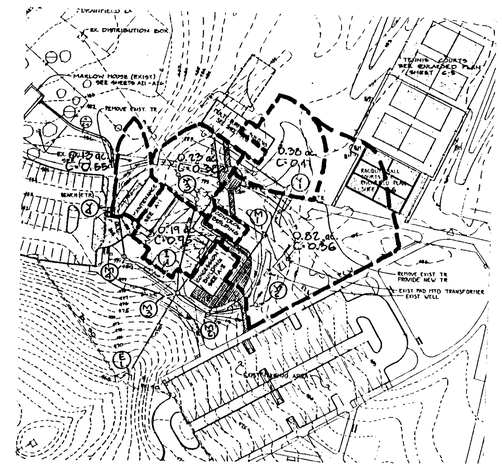
SDP-91-42





STORM DRAIN PROFILES

Scales: 1" = 30' Hor
1" = 5' Vert.

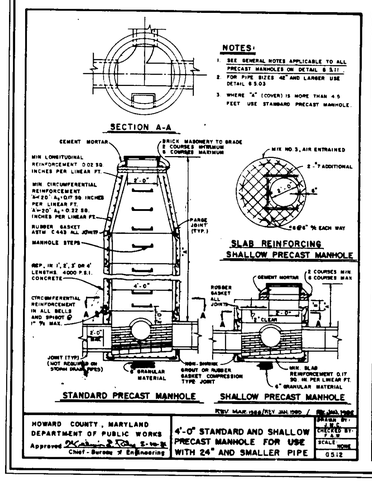


DRAINAGE AREA MAP

Scale 1" = 100

INLET/STRUCTURE SCHEDULE

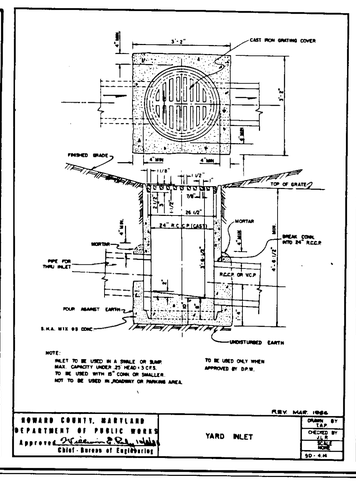
NO.	TYPE	ST'D DETAIL	TOP ELEV.	INVERT IN ELEV.	INVERT OUT ELEV.	REMARKS
Y-1	YARD	SD-4.14	482.00	-	477.00	SUMP INLET
Y-2	YARD	SD-4.14	479.00	-	474.75	SUMP INLET
Y-3	YARD	SD-4.14	482.25	-	478.00	SUMP INLET
Y-4	YARD	SD-4.14	482.50	-	478.00	SUMP INLET
I-1	MR	SD-4.37	481.95 T.C.	476.50	476.25	SUMP INLET
E-1	END SECT	SD-5.2	-	-	465.00	CONC. END SECT.
M-1	MH	G-5.12	481.50	476.30	476.10	ST'D MH
M-2	MH	G-5.12	480.59	474.00	473.80	ST'D MH
M-3	MH	G-5.12	480.50	473.00	472.75	ST'D MH
M-4	MH	G-5.12	480.50	476.67	476.40	ST'D MH



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved 9/26/90
Chief - Bureau of Engineering

4'-0" STANDARD AND SHALLOW PRECAST MANHOLE FOR USE WITH 24" AND SMALLER PIPE

DRAWING BY: TAK
CHECKED BY: RLS
DATE: 5-16-90
SCALE: NONE
NO: S.S.12

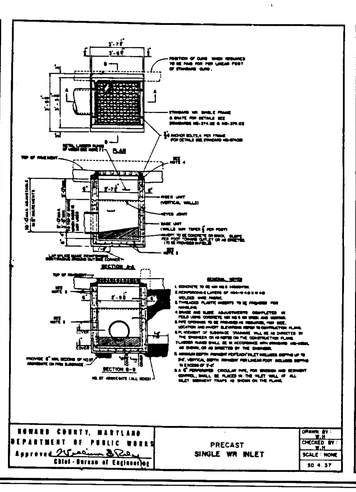


REV. MAR. 1986

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved 9/26/90
Chief - Bureau of Engineering

YARD INLET

DRAWN BY: TAK
CHECKED BY: RLS
DATE: MAY 1986
SCALE: NONE
NO: S.S.11



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved 9/26/90
Chief - Bureau of Engineering

PRECAST SINGLE WR INLET

DRAWN BY: TAK
CHECKED BY: RLS
DATE: MAY 1986
SCALE: NONE
NO: S.S.37

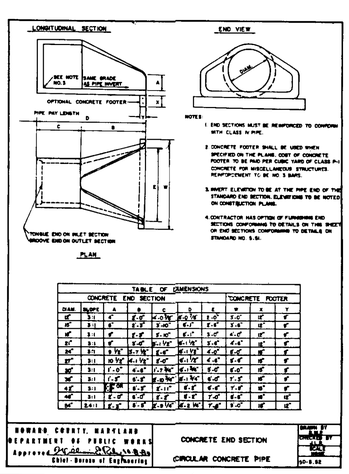


TABLE OF DIMENSIONS

CONCRETE END SECTION						"CONCRETE FOOTER"		
DIAM.	SLOPE	A	B	C	D	E	W	X	Y
12"	3:1	6"	2'-0"	4'-0 3/8"	4'-6 3/8"	3'-0"	1'-0"	12"	9"
15"	3:1	6"	2'-3"	4'-3 3/8"	4'-9 3/8"	3'-3"	1'-0"	12"	9"
18"	3:1	6"	2'-6"	4'-6"	5'-0"	3'-6"	1'-0"	12"	9"
21"	3:1	6"	2'-9"	4'-9"	5'-3"	3'-9"	1'-0"	12"	9"
24"	3:1	9 3/4"	3'-1 3/4"	5'-4"	5'-10 3/4"	4'-4"	1'-0"	12"	9"
27"	3:1	10 3/4"	3'-4 3/4"	5'-8"	6'-4 3/4"	4'-8"	1'-0"	12"	9"
30"	3:1	11'-0"	3'-6"	6'-0 3/4"	6'-6 3/4"	5'-0"	1'-0"	12"	9"
36"	3:1	11'-6"	3'-9"	6'-6 3/4"	7'-0 3/4"	5'-6"	1'-0"	12"	9"
42"	3:1	12'-0"	4'-0"	6'-11"	7'-5"	6'-0"	1'-0"	12"	9"
48"	3:1	12'-6"	4'-3"	7'-3 1/4"	7'-9 1/4"	6'-3"	1'-0"	12"	9"
54"	2.4:1	12'-6"	4'-3"	7'-3 1/4"	7'-9 1/4"	6'-3"	1'-0"	12"	9"

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved 9/26/90
Chief - Bureau of Engineering

CONCRETE END SECTION
CIRCULAR CONCRETE PIPE

DRAWN BY: TAK
CHECKED BY: RLS
DATE: MAY 1986
SCALE: NONE
NO: S.S.02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 11/14/91

Chief, Division of Community Planning and Land Development — Date 11/6/91

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

County Health Officer — Date 11-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/20/90

Chief, Bureau of Engineering — Date 11-20-90

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

STATE OF MARYLAND
PRINTED NAME: JOHN BRUNNETT

JOHN BRUNNETT
ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY
DEPARTMENT OF
PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS # H-3088

SCHOOLEY MILL PARK PHASE II

Section/Area Phase 2
Parcel # 113
Plat# or Liber/Folio 881/483

Addition to SDP-85-36
Election District 5th
Block# 10
Census Tract 6051
Tax/Zone Map 40
Zone R
Water Code
Sewer Code

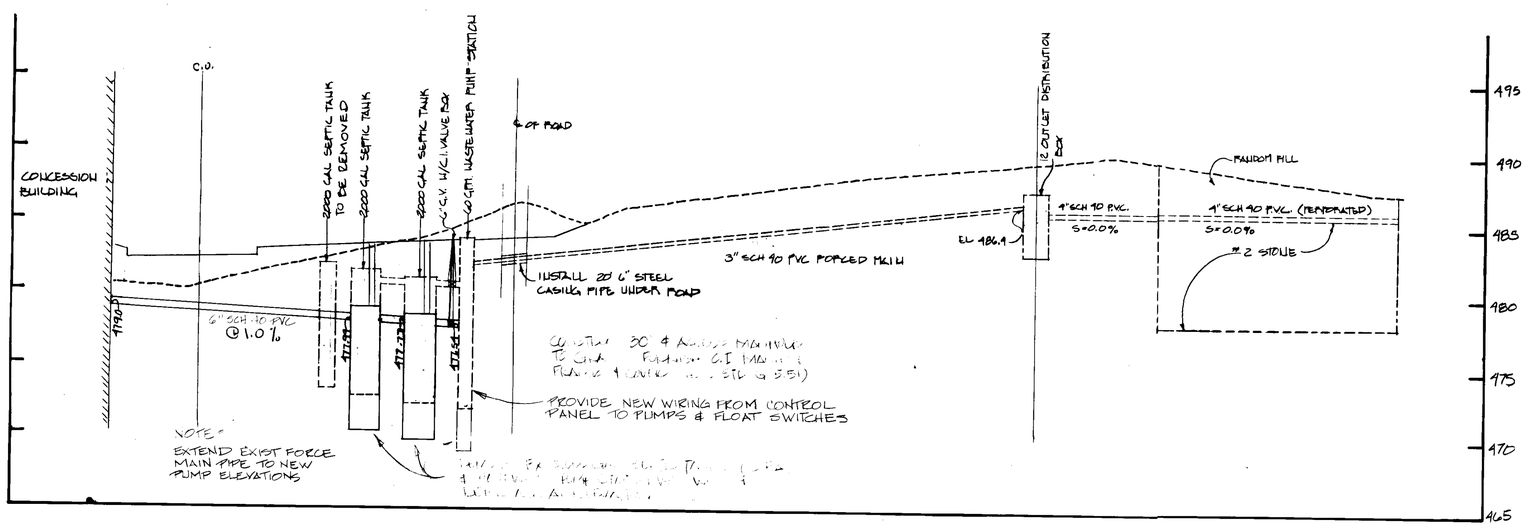
PROJECT NUMBER: H3088 AA
DATE: 9-25-90
SCALE:
REVISIONS: #1 DATE: 4-3-91

SHEET 8 OF —

STORM DRAIN PROFILES and DETAILS

C 8

SDP-91-42



PROFILE: SEPTIC SYSTEM

SCALE: 1"=30' HOR. 1"=5' VERT.

PRIVATE SEWAGE DISPOSAL SYSTEM

BASIS OF DESIGN

DESIGN FLOW COMPUTATIONS:

PARK POPULATION - MAXIMUM DAY - 500

5 gal/day/person X 500 = 2,500 gal (max. day)

CONCESSION STAND MEALS - MAXIMUM DAY - 250

3 gal/meal X 250 = 750 gal. (max. day)

FULL-TIME EMPLOYEES - 15

15 gal/day/person X 15 = 225 gal

TOTAL DESIGN FLOW - MAXIMUM DAY - 3,475 GAL

REQUIRED SEPTIC TANK CAPACITY:

TANK CAPACITY = 1125 GAL + 0.75 x DESIGN FLOW

= 1125 + (0.75 X 3,475)

= 3731 GAL

TANK CAPACITY PROVIDED - 4,000 GAL *

PUMP PIT WET WELL CAPACITY: 300 GAL **

SOIL ABSORPTION AREA: **

TILE FIELD - NUMBER OF TRENCHES - 6

TOTAL LENGTH - 600'

TRENCH WIDTH - 2'

GRAVEL DEPTH - 7'

ABSORBENT AREA - 4200 S.F.

MAXIMUM ALLOWABLE DESIGN FLOW TO TILE FIELD

4200 GAL/DAY

* 3-2000 gal septic tanks installed under Phase I park construction. One tank to be removed to permit construction of new Control Building.

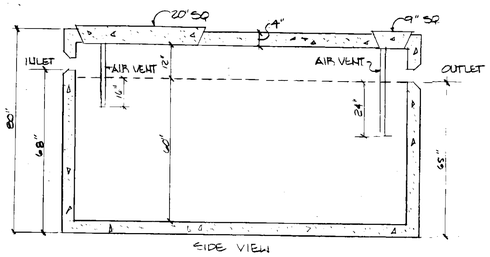
** Installed under Phase I park construction 5/85. There are currently no connections to the existing septic disposal system.

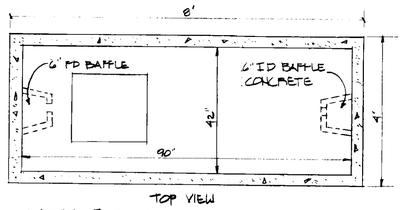
CONCRETE SPECIFICATIONS

28 DAY - COMPRESSIVE STRENGTH - 4000 P.S.I.

REINFORCED WITH 6X6 # 10 GA. WIRE MESH

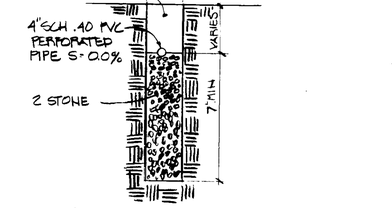
TOP & BOTTOM OF TANK WIRE MESH - PLUS #3 RODS





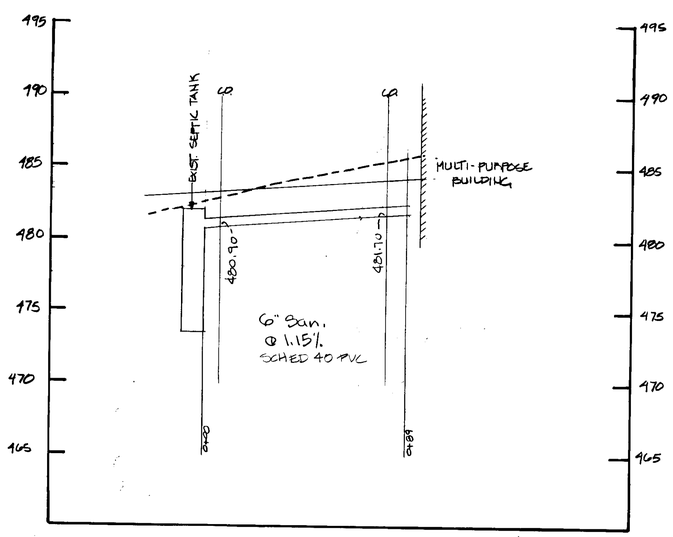
1000 GALLON PRE-CAST CONC. SEPTIC TANK

(NOT TO SCALE)



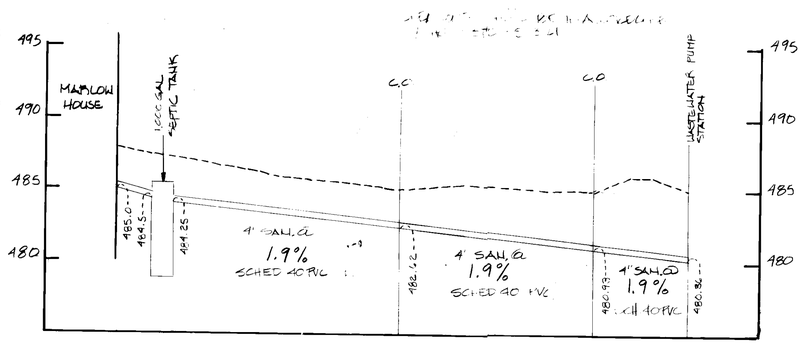
EXIST. SEEPAGE TRENCH DETAIL

(NOT TO SCALE)



MULTI-PURPOSE BUILDING SEWAGE COLLECTION

SCALE: 1"=30' HOR. 1"=5' VERT.



MARLOW HOUSE SEWAGE COLLECTION

SCALE 1"=30 HOR. 1"=5' VERT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date 1/15/91

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 1/16/91

Chief, Bureau of Engineering — Date 11-20-90

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

JOHN BRUNNETT ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS # H-3082

SCHOOLEY MILL PARK PHASE II

Section/Area Phase 2
Parcel # 113
Plat# or Liber/Folio 881/483

Addition to SDP-85-36
Election District 5th
Block# 10
Census Tract 6051
Tax/Zone Map 40
Zone R
Water Code
Sewer Code

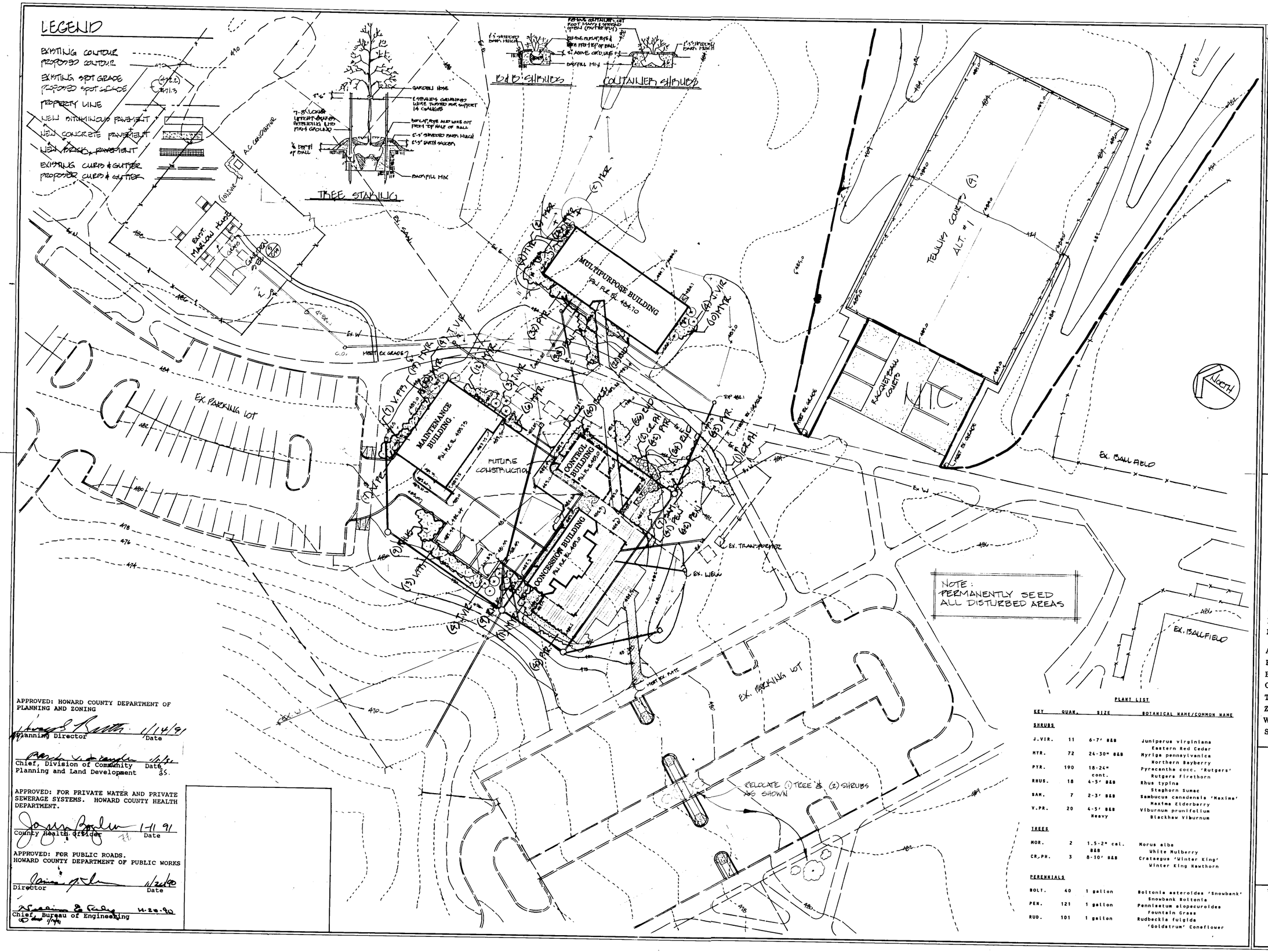
PROJECT NUMBER: H3082 AA
DATE: 9-25-90
SCALE: AS SHOWN
REVISIONS: #1 DATE: 4-3-91

SHEET 9 OF

SEWAGE DESPOSAL SYSTEM PROFILES

C·9

SDP-91-42



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 1/14/91

Chief, Division of Community Planning and Land Development — Date

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 1/26/90

Chief, Bureau of Engineering — Date 11-26-90

PLANT LIST

KEY	QUAN.	SIZE	BOTANICAL NAME/COMMON NAME
SHRUBS			
J.VIR.	11	6-7' B&B	Juniperus virginiana Eastern Red Cedar
MYR.	72	24-30" B&B	Myriga pennsylvanica Northern Bayberry
PYR.	190	18-24" cont.	Pyracantha cocc. 'Rutgers' Rutgers Firethorn
RHUS.	18	4-5' B&B	Rhus typina Staghorn Sumac
SAM.	7	2-3' B&B	Sambucus canadensis 'Maxima' Maxima Elderberry
V.PR.	20	4-5' B&B Heavy	Viburnum prunifolium Blackhaw Viburnum
TREES			
MOR.	2	1.5-2" cal. B&B	Morus alba White Mulberry
CR.PH.	3	8-10' B&B	Crataegus 'Winter King' Winter King Hawthorn
PERENNIALS			
BOLT.	40	1 gallon	Boltonia asteroides 'Snowbank' Snowbank Boltonia
PEN.	121	1 gallon	Pennisetum alopecuroides Fountain Grass
RUD.	101	1 gallon	Rudbeckia fulgida 'Goldstrum' Coneflower

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

JOHN BRUNNETT ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS # N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

PROJECT NUMBER: N3082 AA

DATE: 9-25-90

SCALE: 1"=30'

REVISIONS: DATE:

SHEET ___ OF ___

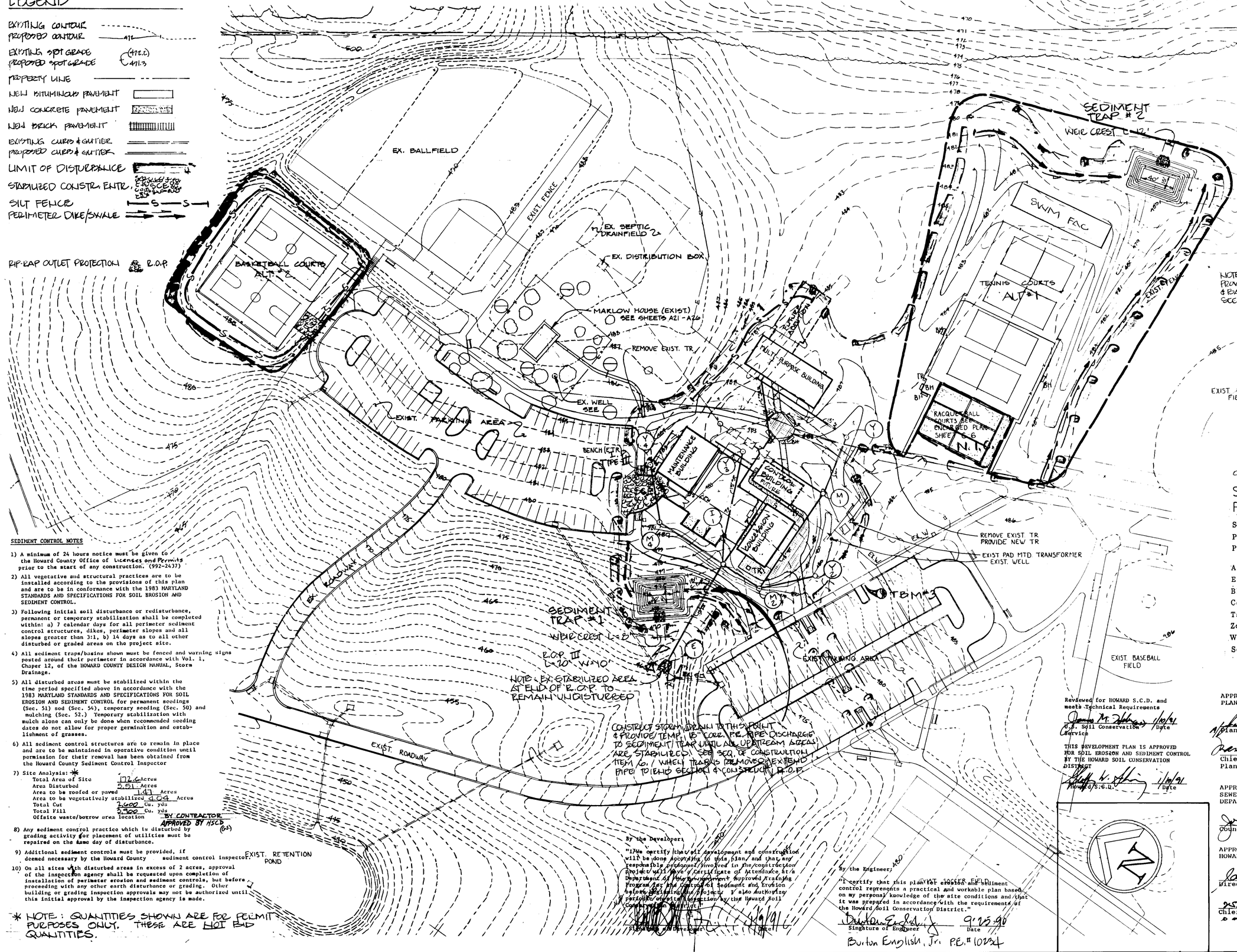
PLANTING PLAN

C-10

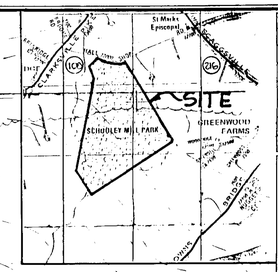
SDP-91-42

LEGEND

EXISTING CONTOUR
PROPOSED CONTOUR — 472
EXISTING SPOT GRADE (472.0)
PROPOSED SPOT GRADE 471.3
PROPERTY LINE
NEW BITUMINOUS PAVEMENT
NEW CONCRETE PAVEMENT
NEW BRICK PAVEMENT
EXISTING CURBS & GUTTER
PROPOSED CURBS & GUTTER
LIMIT OF DISTURBANCE
STABILIZED CONSTR. ENTR. SCE
SILT FENCE — S — S —
PERIMETER DIKE/SWALE
RIP-RAP OUTLET PROTECTION R.O.P.



NOTE: SWM QUALITY & PEAK MANAGMT PROVIDED IN EX. WET POND FOR BUILDING & BASKETBALL COURT AREAS. SEE SDP 85-36



VICINITY MAP
SCALE 1" = 2000'

BENCHMARK
TBM # 3 ELEV. 482.65
FR NAIL IN JOINT ON CONC. CURB

SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Licenses and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector
7) Site Analysis: *

Total Area of Site	172.6	Acres
Area Disturbed	2.51	Acres
Area to be roofed or paved	1.47	Acres
Area to be vegetatively stabilized	1.04	Acres
Total Cut	2,600	Cu. yds
Total Fill	2,500	Cu. yds
Offsite waste/borrow area location	BY CONTRACTOR APPROVED BY HSCD	

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9) Additional sediment controls must be provided, if deemed necessary by the Howard County sediment control inspector.
10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

* NOTE: QUANTITIES SHOWN ARE FOR PERMIT PURPOSES ONLY. THESE ARE NOT BID QUANTITIES.

By the Developer:
"I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District."
Developer — Date 9/9/91

By the Engineer:
"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."
Signature of Engineer — Date 9.25.90
Burton English, Jr. P.E. # 10224

Reviewed for HOWARD S.C.D. and meets Technical Requirements
U.S. Soil Conservation Service — Date 11/6/91

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Howard S.C.D. — Date 11/6/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Director — Date 11/14/91
Chief, Division of Community Planning and Land Development — Date 11/5/91

APPROVED: FOR PRIVATE WATER AND PRIVAT SEWERAGE SYSTEMS. HOWARD COUNTY HEALT DEPARTMENT.
County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WOR
Director — Date 11/26/90
Chief, Bureau of Engineering — Date 11/6

REVISION	DATE
# 1	A-2

JOHN BRUNNETT ARCHITECT, P.A.

CAPITAL PROJECTS # 3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

APPROVED BY

PROJECT NUMBER N. 3082 AA | DRAWN BY | SCALE 1" = 50' | DATE 9.25.90

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

Sediment & Erosion Control Plan

SHEET NUMBER C-11 OF

SDP-91-42

SILT FENCE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. High strength polypropylene netting or WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 1½"x1½" Min. (Actual) Hardwood

FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING or high strength polypropylene netting

FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

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

STABILIZED CONSTRUCTION ENTRANCE

not to scale

CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 ft. (except on a single residence lot where a 30 ft minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) ft. minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

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

STONE OUTLET SEDIMENT TRAP V

OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. 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 on the small riprap or embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING ST-V

SEDIMENT TRAP SCHEDULE

TRAP NUMBER	#1	#2
TYPE OF TRAP	STONE OUTLET	STONE OUTLET
ST'D DETAIL	ST-V	ST-V
DRAINAGE AREA	1.8 AC.±	2.2 AC.±
STORAGE REQUIRED	3240 C.F.	3960 C.F.
STORAGE PROVIDED	3750 C.F.	4670 C.F.
BOTTOM DIMENSIONS	30' X 15'	40' X 15'
SIDE SLOPES	2:1	2:1
BOTTOM ELEVATION	467.0	473.0
WEIR CREST ELEVATION	472.0	478.0
BERM ELEVATION	473.0	479.0
CLEANOUT ELEVATION	469.0	475.0
EX. GROUND ELEV. AT WEIR	471.0	477.0
WEIR LENGTH	8'	12'

PERMANENT SEEDING NOTES

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

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

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

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

2) Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching -- Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring

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

TEMPORARY SEEDING NOTES

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

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

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 15 thru Novermber 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

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

SEQUENCE OF CONSTRUCTION

1. Obtain Grading Permit.
2. Clear and grub for perimeter sediment control devices. Install stabilized construction entrance, silt fence and perimeter dike/swales. construct temporary Sediment Traps.
3. Provide temporary stabilization within 7 calendar days for surfaces of all dikes, swales, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical.
4. Notify Howard County DPW Sediment Control Inspector and obtain approval of completed sediment control devices before proceeding with construction.
5. Clear and grub remaining site areas. Rough grade site.
6. Install new utilities. End storm drain construction 40'± downstream of Manhole 3. Provide temporary 18" corrugated polyethylene pipe from storm drain to Sediment Trap 1. Any sediment control device disturbed by utility construction shall be repaired before the end of that work day.
7. Construct new buildings.
8. Prepare subgrade for new vehicular paving and paved court areas. Construct new curbs and paving.
9. Install new fencing, court markings, and site furnishings.
10. Construct SWM Infiltration Facility for new tennis court area. Install sod strip between court paving and infiltration bed. Direct all surface water away from infiltration bed until the upstream areas have been stabilized.
11. Fine grade site. Stabilize all disturbed areas with permanent seeding or plantings as indicated on the landscaping plan.
12. Flush storm drain system to remove any accumulated sediment and debris. Extend storm drain to End Section E-1 and construct rip-rap outlet protection. Open only the length of trench for which pipe can be laid during that work day. Backfill and stabilize trench at the end of each day.
13. After all site areas have been stabilized, remove sediment control devices after obtaining permission from the Howard County DPW Sediment Control Inspector. Stabilize all areas disturbed during removal of sediment control devices.

RIPRAP OUTLET PROTECTION

DESIGN DATA:
Q = 5.94 Cfs
D = 15"
STONE d50 = 0.5'
dmax = 0.75'

T = 1.25'
La = 10'
W = 12'

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	RIPRAP OUTLET PROTECTION-I	STANDARD DRAWING ROP-I

PERIMETER DIKE/SWALE

not to scale

CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTRUBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

Max. Drainage Area Limit: 2 Acres

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	PERIMETER DIKE/SWALE	Standard Drawing PDS-1

By the Developer:

"I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District."

[signature] 1/10/91
Signature of Developer — Date
Print name below signature

By the Engineer:

"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."

[signature] 9-25-90
Singature of Engineer — Date
Print name below signature
Burton English Jr. P.E. # 10234

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

[signature] 1/10/91
U.S. Soil Conservation Service — Date

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

[signature] 1/10/91
Howard S.C.D. — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[signature] 1/14/91
Planning Director — Date

[signature] 1/10/91
Chief, Division of Community Planning and Land Development — Date

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

[signature] 1-11-91
County Health Officer — Date

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[signature] 11/20/90
Director — Date

[signature] 11-20-90
Chief, Bureau of Engineering
CO [illegible] 1/10/91

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

JOHN BRUNNETT ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS # H-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

PROJECT NUMBER: H3082 AA

DATE: 9-25-90

SCALE:

REVISIONS: #1 DATE: 4-3-91

SHEET # OF

SEDIMENT and EROSION CONTROL DETAILS

C-12

SDP-91-42

STORMWATER MANAGEMENT FACILITIES
CONSTRUCTION SPECIFICATIONS

1. INSPECTION BY DESIGNATED ENGINEER - The construction of all stormwater management facilities shall be under the supervision of a registered Professional Engineer. The Engineer must certify that the facilities have been built in accordance with the plans and submit written certification immediately following the completion of the project.

2. TIMING - Runoff shall not be allowed to enter underground SWM facilities until all upstream drainage areas have been stabilized.

3. EROSION CONTROL FACILITIES - All disturbed areas shall be controlled by erosion and sediment control devices in accordance with an approved plan.

4. CARE OF WATER DURING CONSTRUCTION - All work shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, berms, and drainage structures necessary to protect the work areas, and shall furnish, operate and maintain all necessary pumping and other equipment required for removal of water from various parts of the work. After having served their purpose, all temporary facilities and equipment shall be removed.

5. MATERIALS

PLASTIC PIPE - Polyvinyl chloride plastic pipe shall meet the requirements of ASTM D 2729. Perforated PVC pipe shall also meet the requirements of AASHTO M 189.

STONE FILL - Stone shall be MSHA Size #2.

FILTER FABRIC - Filter fabric shall be Polyfilter - x, Mirafi 140X or equivalent.

BACKFILL MATERIAL - Fill shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectional materials, and shall meet the requirements for subgrade materials.

6. INSTALLATION

EXCAVATION - Prepare excavations to design dimensions. Excavated materials shall be placed away from the excavated sides to enhance wall stability. Large tree roots shall be trimmed flush with the sides to prevent fabric tearing or puncturing during subsequent installation proceedures.

FABRIC LAYDOWN - The filter fabric roll shall be cut to the proper width prior to installation. Fabric shall be placed to completely line the trench and to conform to any irregularities in the excavation. Fabric shall be anchored with metal staples or other approved methods. Where overlaps between two rolls are required, the upstream roll shall lap a minimum of 2 feet over the downstream roll in order to provide a shingle effect. Overlaps on the top of trenches and beds shall be a minimum of 6 inches.

STONE PLACEMENT - Stone shall be placed with care to avoid tearing or displacing filter fabric. Stone fill shall be placed in lifts not exceeding 12 inches in thickness.

CONTAMINATION - Care shall be exercised to prevent natural or fill soils from intermixing with the stone fill. All contaminated stone fill shall be removed and replaced with uncontaminated stone.

BACKFILL - After stone fill has been placed, the top of the stone storage bed shall be covered with filter cloth. Filter fabric shall be anchored in place with a 6" layer of MdSHA Aggregate Mix No. 6 (AASHTO M 43, Mix NO. 57)

OBSERVATION WELL - An observation well shall be installed in accordance with the drawings.

7. CONSTRUCTION INSPECTION SCHEDULE - As a minimum, inspection of the stormwater management facility shall be made at the following specified stages of construction:

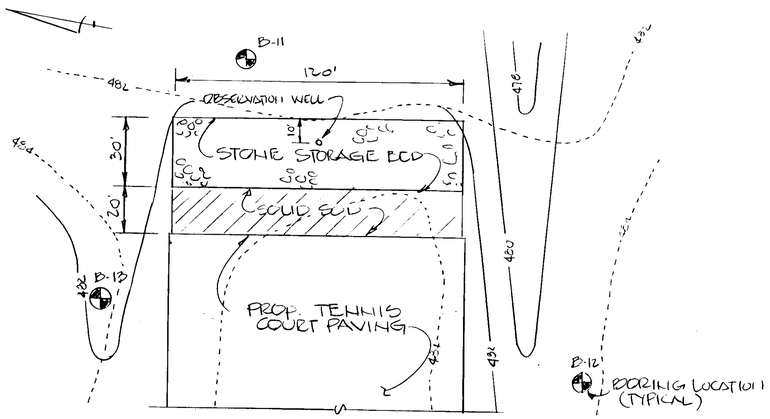
(1) Upon completion of excavation for the underground stone storage facility and the installation of the filter cloth, before placement of stone fill.

(2) During placement of the stone fill.

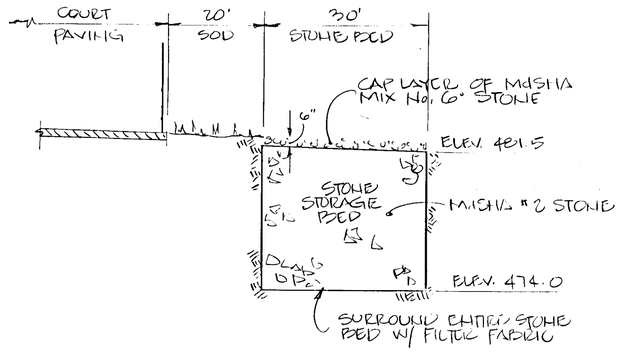
(3) Upon completion of the placement of the stone fill, just prior to backfilling.

(4) Upon completion of final grading and establishment of permanent stabilization.

8. MAINTENANCE SCHEDULE - All stormwater management facilities sha be inspected every three months and after every major storm during the first year of operation. Thereafter, facilities shall be inspected semiannually.

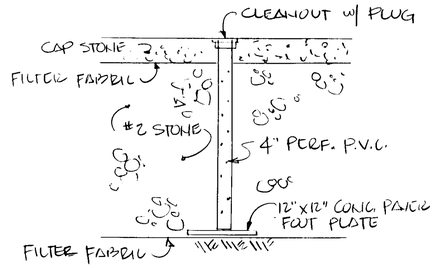


PLAN - SWM FACILITY
SCALE 1" = 30'



NOTE: SWM FACILITY SHALL NOT BE INSTALLED UNTIL TENNIS COURTS ARE PAVED & SURROUNDING AREAS FINE GRADED.
INSTALL SOD FILTER STRIP BEFORE PLACING STONE FILL IN STORAGE BED.

SECTION THRU STONE STORAGE BED
NO SCALE

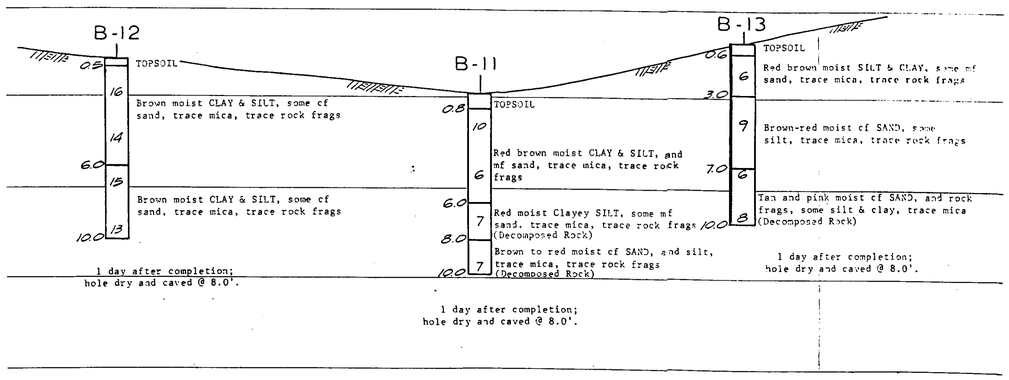


OBSERVATION WELL DETAIL
NO SCALE

ESTIMATED INFILTRATION DATA

Boring No.	Depth (Ft) From	To	USDA Classification	**Minimum Infiltration Rate (Inches/Hour)
B-11	0.8	6.0	Sandy Loam	1.02
	6.0	8.0	Silt Loam	0.27
	8.0	10.0	Sandy Loam	1.02
B-12	0.5	6.0	Clay Loam	0.09
	6.0	10.0	Clay Loam	0.09
B-13	0.6	3.0	Silt Loam	0.27
	3.0	7.0	Sandy Loam	1.02
	7.0	10.0	Sandy Loam	1.02

**As set forth by the Maryland Department of Natural Resources in "Standards and Specifications for Infiltration Practices," dated February 1984.



BORING LOGS

NOTE: WORK ON THIS SHEET ALT. # 1

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date 11/14/91

Chief, Division of Community Planning and Land Development — Date 11/14/91

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

County Health Officer — Date 1-11-91

APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date 11/20/90

Chief, Bureau of Engineering — 11-20-90

FARRAND & ENGLISH
416 LYMAN AVE.
BALTIMORE MD. 21212

JOHN BRUNNETT ARCHITECT P.A.
2205 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

CAPITAL PROJECTS #N-3082

SCHOOLEY MILL PARK PHASE II

Section/Area	Phase 2
Parcel #	113
Plat# or Liber/Folio	881/483
Addition to SDP-85-36	
Election District	5th
Block#	10
Census Tract	6051
Tax/Zone Map	40
Zone	R
Water Code	
Sewer Code	

PROJECT NUMBER: N3082 AA
DATE: 9-25-90
SCALE:
REVISIONS: DATE:

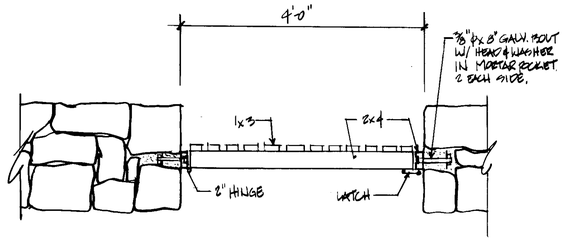
SHEET 4 OF

STORM WATER MANAGEMENT DETAILS

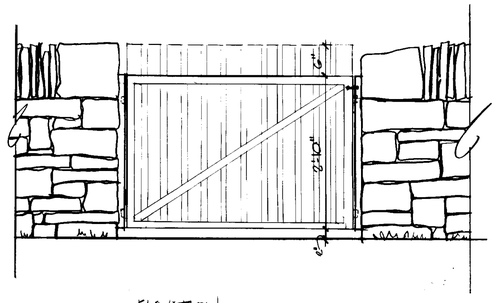
C-13

SDP-91-42

WOOD: NO 2 SOUTHERN PINE, PRESSURE TREATED CCA 0.40
FINISH: 2 COATS CABOTS 'DRIFTWOOD GRAY' STAIN.
HARDWARE: HOT DIPPED GALVANIZED.

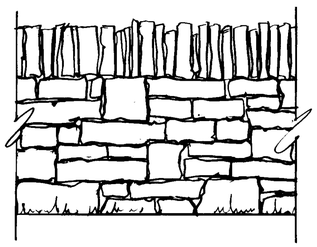


PLAN

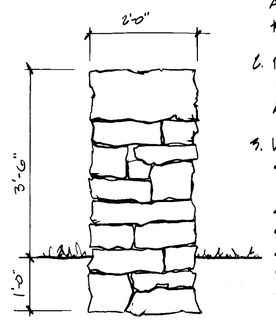


ELEVATION

1. 4' WOOD GATE 3/4"=1'



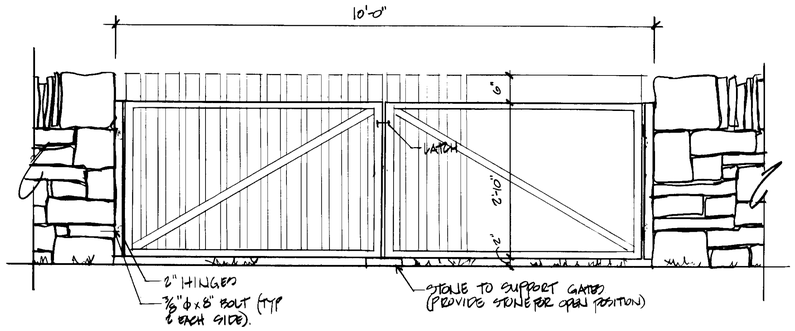
ELEVATION



SECTION

NOTES:
1. STONE: LOCAL 'FIELDSTONE', ANGULAR, LIMESTONE, APPROVED BY ARCHITECT.
2. PROVIDE MOCK-UP SAMPLE 10' SECTION OF WALL FOR APPROVAL BY ARCHITECT.
3. WALL:
- DRY STACKED, 1 OVER 2 & 2 OVER 1
- SLOPE TOWARD INTERIOR
- MINIMAL CHINKING
- TIE THROUGH WALL @ 3-4' O.C.
- AVOID EXCESS RUN - 3 COURSE MAX.
- EDGE STACK TOP COURSE.

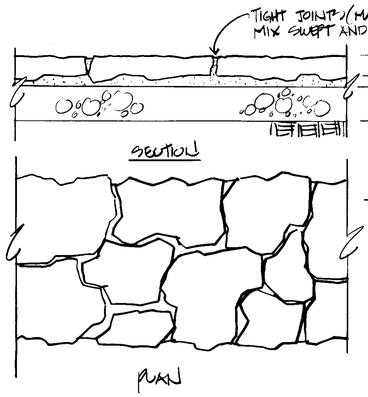
2. FIELDSTONE WALL 3/4"=1'



ELEVATION

NOTE: SAME CONSTRUCTION AS 4' GATE.

3. 10' WOOD GATE 3/4"=1'



SECTION

PLAN

NOTE:
1. PROVIDE 4'x8' SAMPLE FOR APPROVAL BY ARCHITECT.
2. STONE TO MATCH FIELDSTONE WALLS.

4. FIELDSTONE WALK 1½"=1'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Planning Director — Date

Chief, Division of Community Planning and Land Development — Date

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

County Health Officer — Date

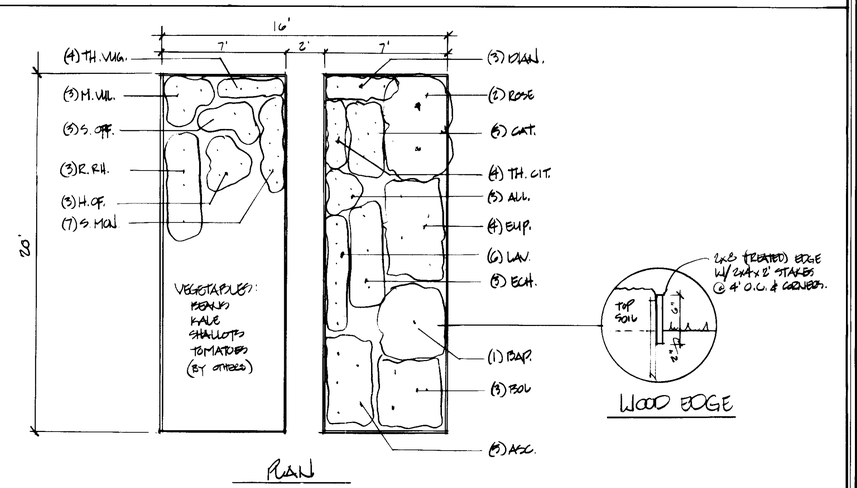
APPROVED: FOR PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director — Date

Chief, Bureau of Engineering — Date

GARDEN PLANT LIST

KEY	QUAN.	SIZE	BOTANICAL NAME/COMMON NAME
Perennials			
ASC.	5	1 qt.	Asclepias tuberosa/Butterfly Weed
BAP.	1	1 gal.	Baptisia australis/Blue False Indigo
BOL.	3	1 qt.	Boltonia asteroides/Boltonia
CAT.	5	1 qt.	Catananche caerula/Cupid's Dart
DIAN.	3	1 qt.	Dianthus plumaris/Cottage Pinks
ECH.	3	1 qt.	Echinacea purpurea/Purple Coneflower
EUP.	4	1 qt.	Eupatorium coelestinus/Mist Flower
Herbs			
ALL.	3	1 qt.	Allium schoeno./Chives
H.OF.	3	1 qt.	Hyssopus officinalis/Hyssops
LAV.	6	1 qt.	Lavendula/Hidcote Lavender
M.VUL.	3	1 qt.	Marrubium vulgare/Horehound
R.RH.	3	1 gal.	Rheum rhaponticum/Rhubarb
S.MON.	7	1 qt.	Satureja montana/Winter Savory
S.OFF.	3	1 qt.	Salvia officinalis/Sage
TH.CIT.	4	1 qt.	Thymus citriodorus/Lemon Thyme
TH.VUL.	4	1 qt.	Thymus vulgaris/Common Thyme
Shrubs			
J.VIR.	10	3-4' B&B	Juniperus virginiana/Red Cedar (SCREEN FOR A/C CONDENSER)
ROSE	2	Bare Root	Rose 'Carefree Beauty'



PLAN

WOOD EDGE

5. GARDEN PLANTING PLAN 1/4"=1'

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3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND

SCHOOLEY MILL PARK PHASE II

CAPITOL PROJECT NO.: N 3082 AA
SECTION/AREA: PHASE 2
PARCEL NO.: 113
PLAT NO. OR LIBER/FOLIO: 881/483
ADDITION TO SDP-85-36
ELECTION DISTRICT: 5th
BLOCK NO.: 10
CENSUS TRACT: 6051.
TAX/ZONE MAP: 40
ZONE: R
WATER CODE:
SEWER CODE:

PROJECT NUMBER: N 3082 AA
DATE: APR. 1991
SCALE: AS SHOWN
REVISIONS: DATE:

SHEET 14 OF 14
DETAILS
C-14