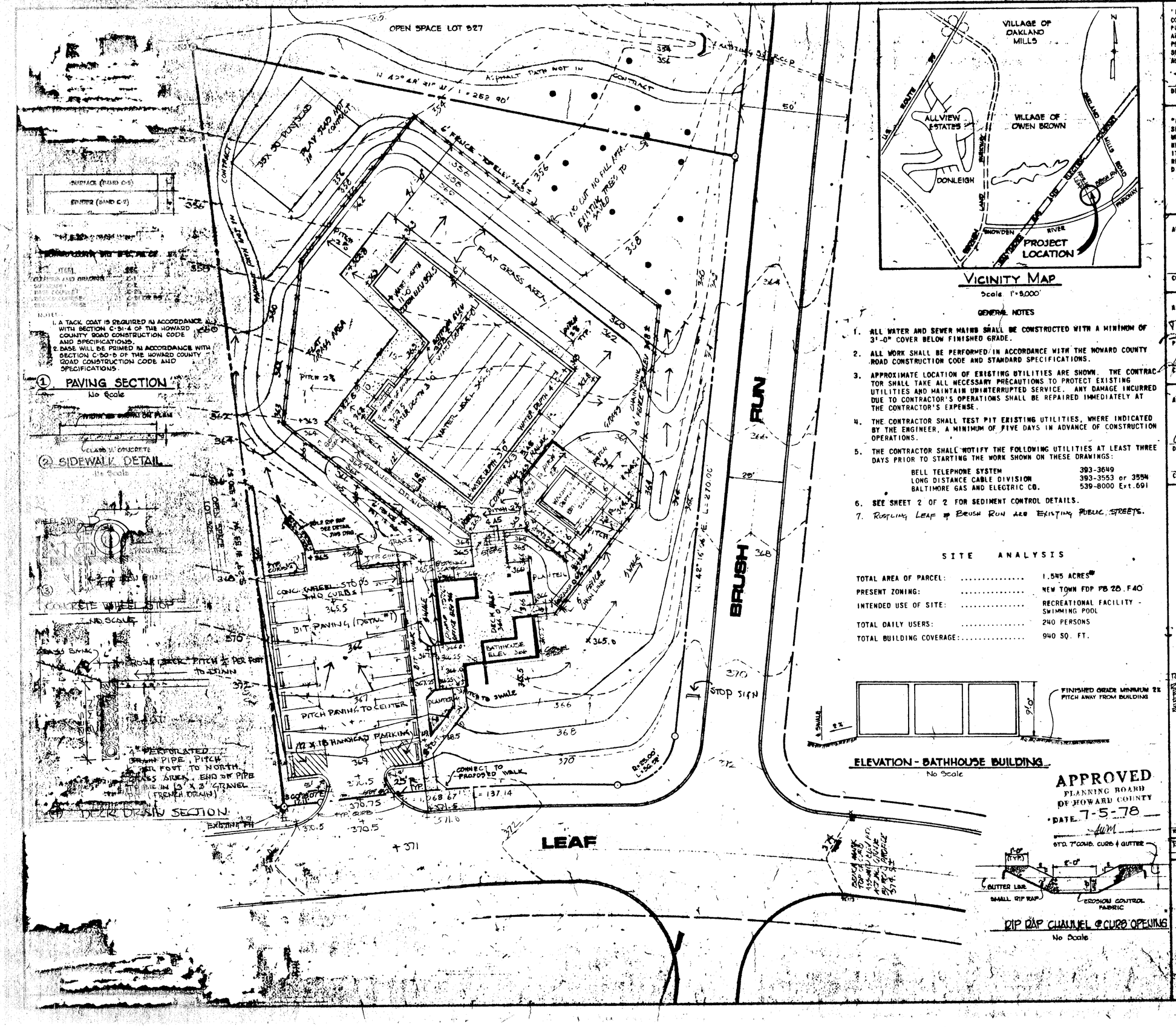


GENERAL NOTES

1. ALL WATER AND SEWER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM OF 3'-0" COVER BELOW FINISHED GRADE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE INDICATED BY THE ENGINEER, A MINIMUM OF FIVE DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS PRIOR TO STARTING THE WORK SHOWN ON THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 355N
BALTIMORE GAS AND ELECTRIC CO.	539-8000 Ext.691

6. SEE SHEET 2 OF 2 FOR SEDIMENT CONTROL DETAILS.
7. RUSTLING LEAF & BRUSH RUN ARE EXISTING PUBLIC STREETS.

SITE ANALYSIS

TOTAL AREA OF PARCEL:	1.545 ACRES
PRESENT ZONING:	NEW TOWN FDP PB 28, F40
INTENDED USE OF SITE:	RECREATIONAL FACILITY - SWIMMING POOL
TOTAL DAILY USERS:	240 PERSONS
TOTAL BUILDING COVERAGE:	940 SQ. FT.

"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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY".

DEVELOPER DATE

"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".

July 12, 1978 DATE

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

COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE

CHIEF, DIV. OF LAND DEVELOPMENT DATE

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

Richard E. Fronckenberger 7/25/78
DIRECTOR DATE

W O Gilbert 7-27-78
CHIEF, BUREAU OF ENGINEERING DATE

REVISED APRIL 19 1978
REVISED 6/26/78
RELOCATE HANDICAPPED SPACES

ARCHITECTURAL REGISTRATION BOARD 2338-A STATE OF MARYLAND

REVISED 5/24/78 ADD STOP LEAF
REVISE ENTRY STEPS AND GRADING
MAKE TROWEL 25' AT GUTTER LINE

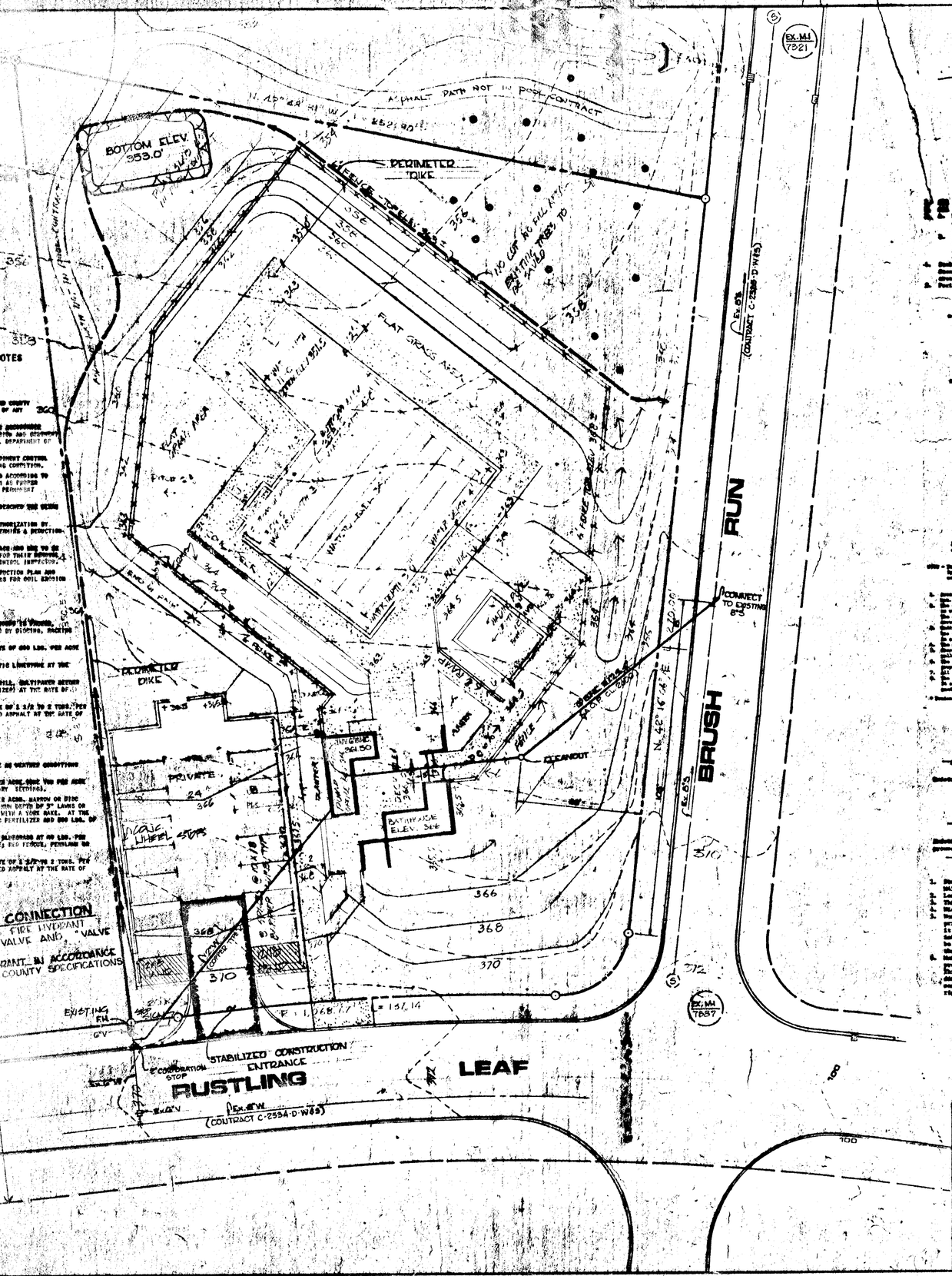
COLUMBIA
VILLAGE OF OWEN BROWN
Lots 237

REVISION TO APPR. SDP 78-88

SECTION 2, AREA 3
LOT 337

PLAT NUMBER 5552
Tax Map No.
ELECTION DISTRICT (CLARKSVILLE)
HOWARD COUNTY, MARYLAND

SDP-78-124c



SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A SEDIMENT CONTROL NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (995-2070).
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
3. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. ALL DISTURBED AREAS ARE TO BE GROSSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS FROSTS WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE LEVEL SET ELEVATIONS SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
7. 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.
8. REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".

TEMPORARY SEEDING

AREA TO BE SEEDED SHALL BE SMOOTH, LOOSE AND FREE OF ROCKS OR OTHER DEBRIS. IF THE GROUND IS COMPACTED OR BARE, THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING, RAKING OR OTHER ACCEPTABLE MEANS.

A. APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.

B. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON. PER ACRE.

C. WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, OR TURFMATE SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 60 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.

D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A COTTAGE ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 8 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE DO WEATHER CONDITIONS PERMIT, AS FOLLOWS:

A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE. USE 1 TON PER ACRE IF APPLICATION OF 1 TON PER ACRE WAS MADE FOR TEMPORARY SEEDING.

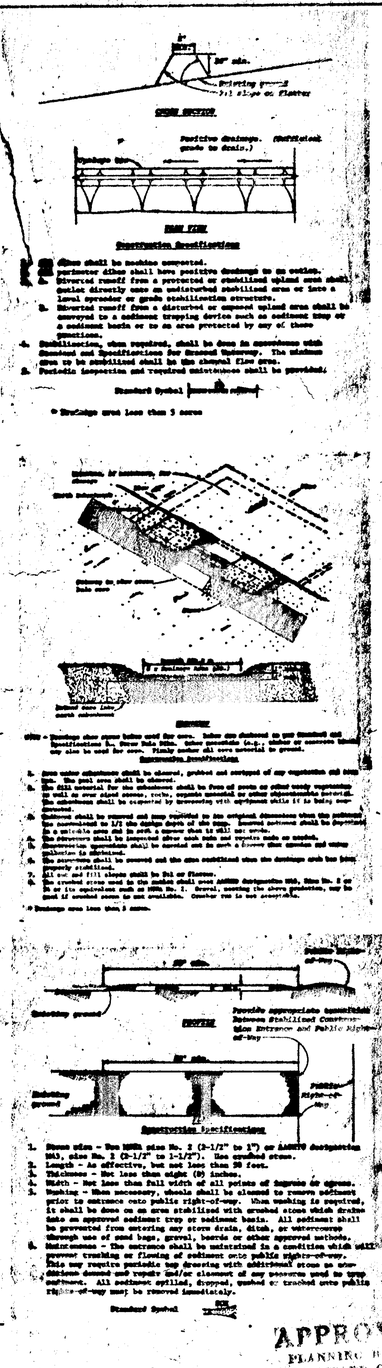
B. APPLY 5-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 5-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3". LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING, APPLY 400 POUNDS OF 34-0-0 UREAFORM FERTILIZER AND 800 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.

C. SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS AT 40 LBS. PER ACRE; CHOICE KENTUCKY BLUEGRASS AT 40 LBS. PER ACRE; RED FESCUE, PERENNIAL OR ANNUAL RYE AT 20 LBS. PER ACRE.

D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A COTTAGE ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 8 GAL. PER 1000 SQ. FT.

SEQUENCE OF CONNECTION

1. REMOVE EXISTING FIRE HYDRANT
2. INSTALL 6" x 7' 6" VALVE AND VALVE WITH STUFFING
3. RESET FIRE HYDRANT IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 7-5-78

THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: [signature] Howard S.C.D. 7-18-78 Date

THIS PLAN HAVE BEEN REVIEWD FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

C. Wayne Ray 7-18-78
U.S. Soil Conservation Service Date

"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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY"

DEVELOPER 7/24/78 DATE

"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".

July 12, 1978

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

COUNTY HEALTH OFFICER 7-28-78 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE

7-31-78
CHIEF, DIV. OF LAND DEVELOPMENT DATE

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

7/25/78
DIRECTOR DATE

7-24-78
CHIEF, BUREAU OF ENGINEERING DATE

SEDIMENT CONTROL STONE OUTLET DATA:

DRAINAGE AREA	-	1.28 AC.
DISTURBED AREA	-	1.28 AC.
VOLUME (C.Y.):		
REQUIRED:	-	86
AVAILABLE:	-	86
CLEANOUT ELEVATION	-	353.0
DEPTH TO CREST	-	2.0'
BOTTOM DIMENSIONS	-	25'x40'

SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE
3. INSTALL STONE OUTLET SEDIMENT TRAP AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
4. INSTALL PERIMETER AND DIVERSION DIKES AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
5. INSTALL EXCAVATED TRAP.

REVISED 6/6/78
REVISE GRADING PER 8/26
DELETE SWALES
REVISE DIKES
REVISE DIKE
RELOCATE HANDICAPPED STOPS

ARCHITECTURAL REGISTRATION 38-A STATE OF MARYLAND

COLUMBIA
VILLAGE OF OWEN BROWN
Lot 337

REVISION TO APPR. SDP-78-88c

SECTION 2, - AREA 3 -

LOT 337

PLAT NUMBER 3852
Tax Map No. 42
ELECTION DISTRICT GUILFORD NO. 6
HOWARD COUNTY, MARYLAND

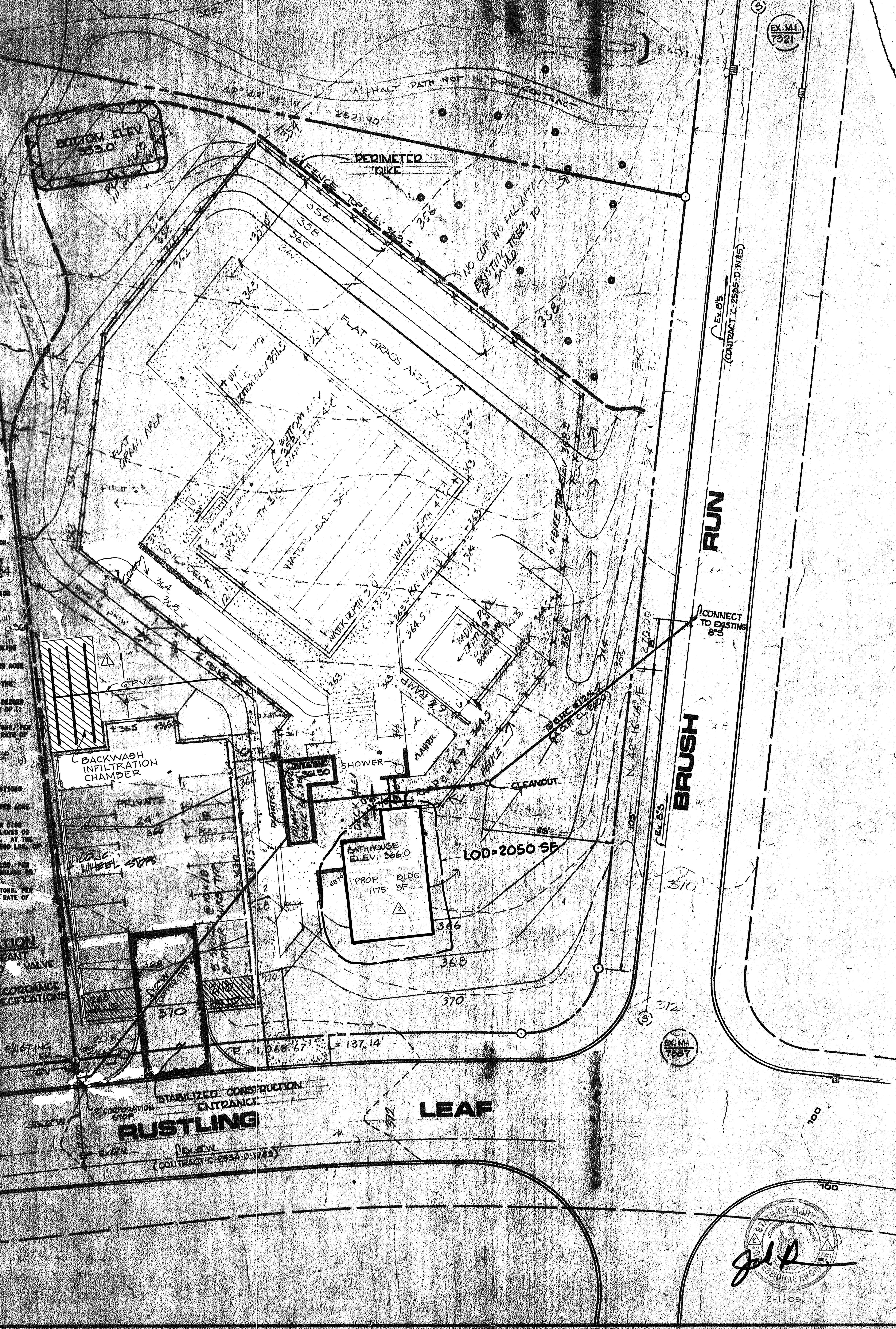
OWEN BROWN
SWIM & TENNIS FACILITY

CROZIER ASSOCIATES
LANDSCAPE ARCHITECTS/PLANNERS
VILLAGE OF CROSS KEYS
SUITE 409 EAST QUADRANGLE
BALTIMORE, MARYLAND 21210
301-323-5515

TITLE
UTILITY AND SEDIMENT CONTROL PLAN

NORTH

SDP-78-124c



SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2070).
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
3. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
4. ALL DISTURBED AREAS ARE TO BE GRADED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
7. 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.
8. REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".

TEMPORARY SEEDING

AREA TO BE SEEDED SHALL BE RECENTLY LOOSENED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

A. APPLY 10-20-20 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 14 LBS. PER 1000 SQ. FT.
B. WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
C. WORK DRY INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 8 GAL. PER 1000 SQ. FT.

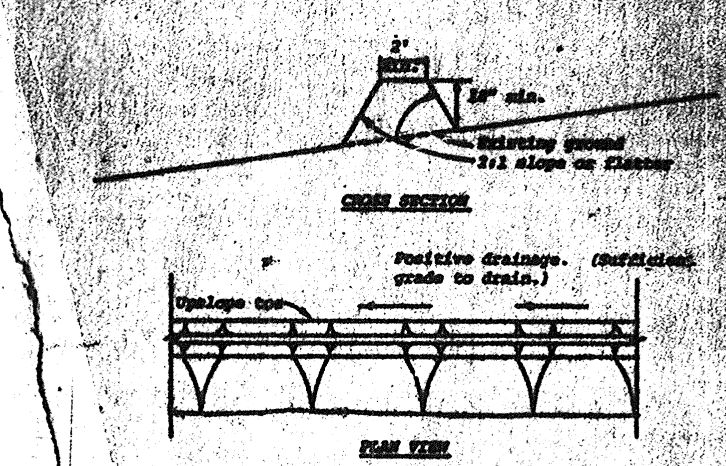
PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

A. APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF [illegible] PER ACRE HAS MADE FOR TEMPORARY SEEDING).
B. APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3". LAWNS OR HIGH MAINTENANCE AREAS WILL BE GRADED AND LEVELED WITH A TINE RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
C. SEED WITH A MIXTURE OF CERTIFIED "KENTON" KENTUCKY BLUEGRASS AT 40 LBS. PER ACRE, COMMON KENTUCKY BLUEGRASS AT 50 LBS. PER ACRE, RED FESCUE, PENNLAWN OR JAMESTOWN AT 20 LBS. PER ACRE.
D. MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 8 GAL. PER 1000 SQ. FT.

SEQUENCE OF CONNECTION

1. REMOVE EXISTING FIRE HYDRANT
2. INSTALL 6" T, 6" VALVE AND VALVE WITH STRAPPING
3. RESET FIRE HYDRANT IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS

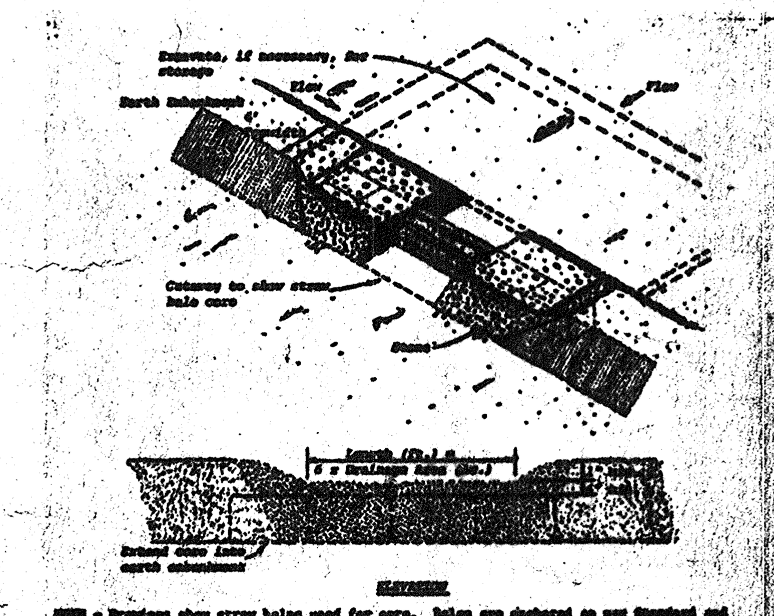


Construction Specifications

1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol

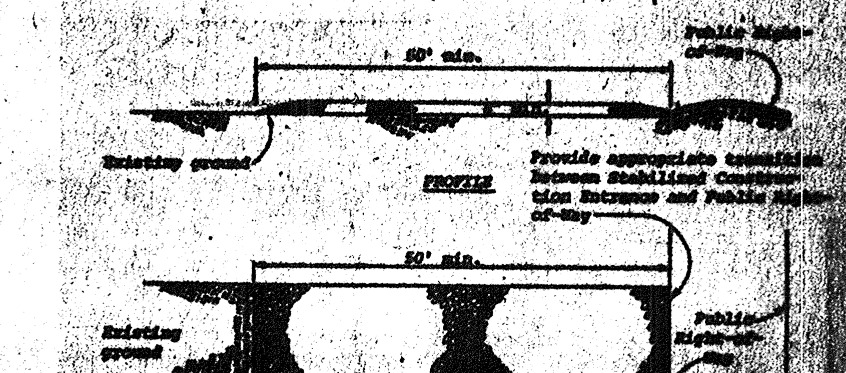
* Drainage area less than 5 acres



Construction Specifications

7. All cut and fill slopes shall be 2:1 or flatter.

* Drainage area less than 5 acres.



Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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.

Standard Symbol SCE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 7-5-78

THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: Wes Earp, Howard S.C.D. — 7-18-78, Date

THIS PLAN HAVE BEEN REVIEWD FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

C. Wayne Ray, U.S. Soil Conservation Service — 7-18-78, Date

STATE OF MARYLAND — PROFESSIONAL ENGINEER — 2-1-05

"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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY"

DEVELOPER — 4/24/78, DATE

"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".

Robert J. Moon, Architect — July 12, 1978

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

COUNTY HEALTH OFFICER — 7-28-78, DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — 7-31-78, DATE

CHIEF, DIV. OF LAND DEVELOPMENT — 7-31-78, DATE

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

Richard E. Freudenberger, DIRECTOR — 7/25/78, DATE

W O Filbert, CHIEF, BUREAU OF ENGINEERING — 7-24-78, DATE

SEDIMENT CONTROL STONE OUTLET DATA:

DRAINAGE AREA	1.28 AC.
DISTURBED AREA	1.28 AC.
VOLUME (C.Y.):	
REQUIRED:	86
AVAILABLE:	86
CLEANOUT ELEVATION	354.0
DEPTH TO CREST	2.0'
BOTTOM DIMENSIONS	25'x46'

SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL STONE OUTLET SEDIMENT TRAP AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
4. INSTALL PERIMETER AND DIVERSION DIKES AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
5. INSTALL EXCAVATED TRAP.

REVISED 6/20/78
ROTATE WADING POOL 90°
DELETE CURB & WHEEL STOPS
REVISE GRASS STEP
REVISE WALKS
RELOCATE HANDICAPPED SPACES

ARCHITECTURAL REGISTRATION BOARD — 2238-A — STATE OF MARYLAND

No.	DATE	REVISION
2	2-1-05	BATHHOUSE AND SHOWER EXPANDED
1	9-27-99	ADDED INFILTRATION CHAMBER

COLUMBIA
VILLAGE OF OWEN BROWN
Lot 337

REVISION TO APPR. SDP-78-88c

SECTION 2, - AREA 3

LOT 337

PLAT NUMBER 3852
Tax Map No. 42

ELECTION DISTRICT GUILFORD NO. 6
HOWARD COUNTY, MARYLAND

HOPEWELL NEIGHBORHOOD CENTER
SWIMMING POOL FACILITY

CROZIER ASSOCIATES
LANDSCAPE ARCHITECTS/PLANNERS
VILLAGE OF CROSS KEYS
SUITE 405 EAST QUADRANGLE
BALTIMORE, MARYLAND 21210
301-323-6515

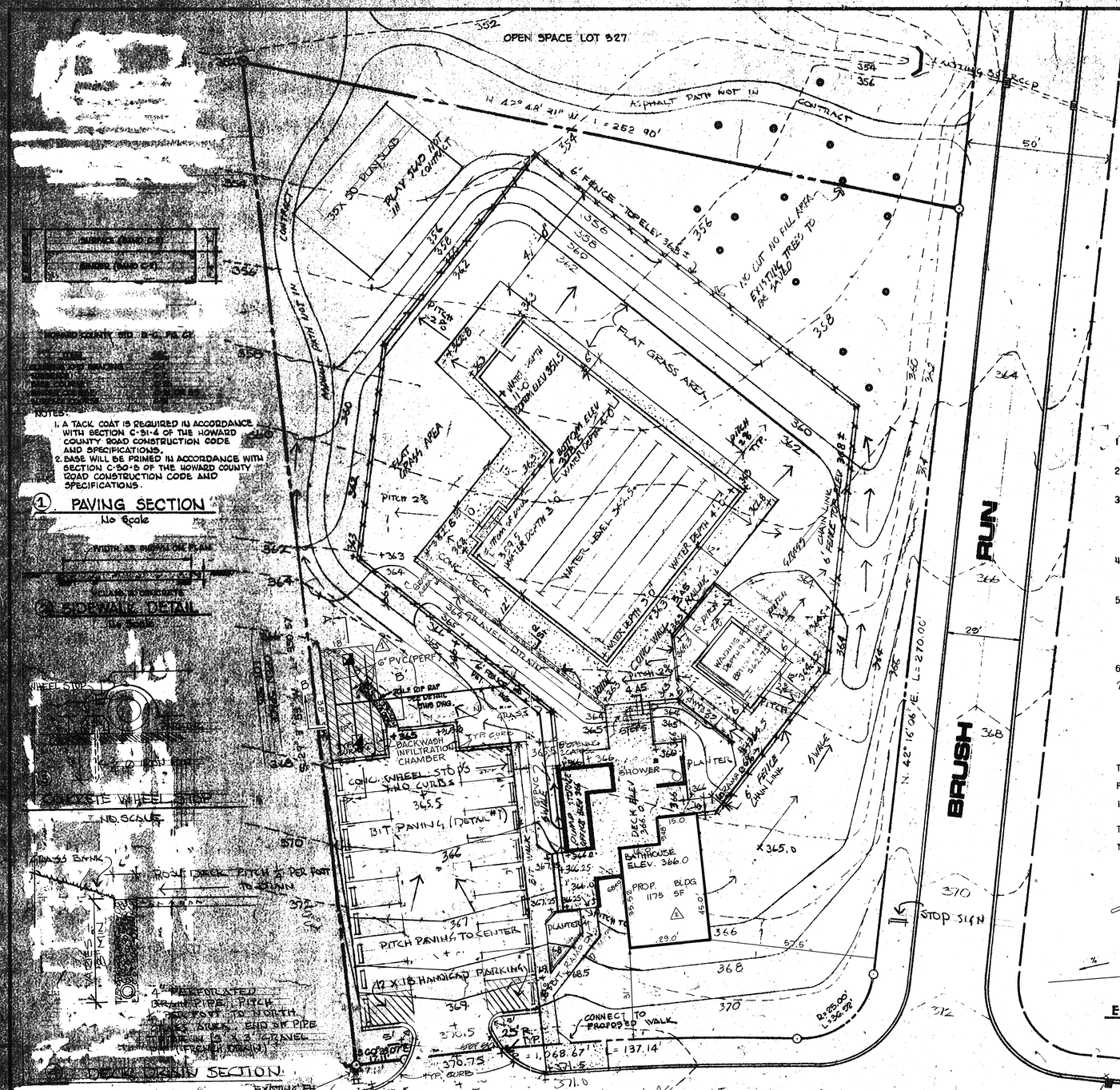
Robert J. Moon
Architect

SHEET TITLE
UTILITY AND SEDIMENT CONTROL PLAN

DRAWN BY
DATE 5/27/78
SCALE 1"=20'
SHEET U-1 (REV)

NORTH

SDP-78-124c 2 of 2

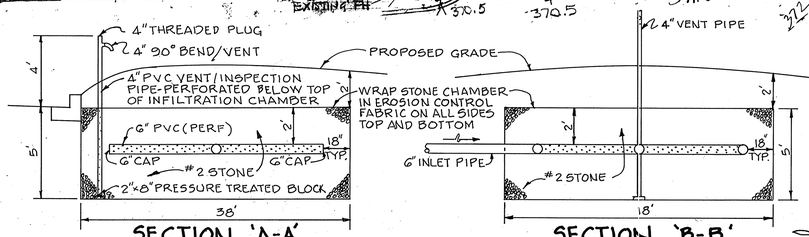


NOTES:

1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-5 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

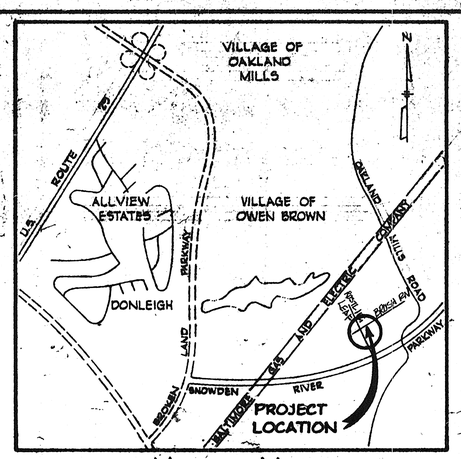
① PAVING SECTION
No Scale

② SIDEWALK DETAIL
No Scale



SECTION 'A-A' SECTION 'B-B'

BACKWASH INFILTRATION CHAMBER DETAIL
NO SCALE



VICINITY MAP
Scale: 1"=2,000'

GENERAL NOTES

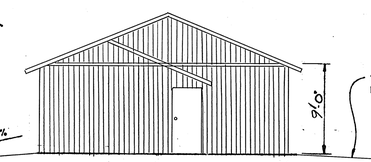
1. ALL WATER AND SEWER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM OF 3'-0" COVER BELOW FINISHED GRADE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE INDICATED BY THE ENGINEER, A MINIMUM OF FIVE DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS PRIOR TO STARTING THE WORK SHOWN ON THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000 Ext.691

6. SEE SHEET 2 OF 2 FOR SEDIMENT CONTROL DETAILS.
7. RUSTLING LEAF & BRUSH RUN ARE EXISTING PUBLIC STREETS.

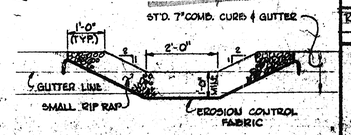
SITE ANALYSIS

TOTAL AREA OF PARCEL:	1.545 ACRES*
PRESENT ZONING:	NEW TOWN FDP PB 28, F40 SEE FDP 118, PART V & FDP 118-A-1, PART III
INTENDED USE OF SITE:	RECREATIONAL FACILITY - SWIMMING POOL
TOTAL DAILY USERS:	240 PERSONS
TOTAL BUILDING COVERAGE:	1680 SQ. FT.



ELEVATION - BATHHOUSE BUILDING
No Scale

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 7-5-78



RIP RAP CHANNEL @ CURB OPENING
No Scale

"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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY".

DEVELOPER DATE

"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".

July 17, 1978
DATE

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

COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE

CHIEF, DIV. OF LAND DEVELOPMENT DATE

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

Richard E. Fronckenberger 7/25/78
DIRECTOR DATE

W O Gilbert 7-27-78
CHIEF, BUREAU OF ENGINEERING DATE

No.	DATE	REVISIONS
1	9-27-99	ADDED INFILTRATION CHAMBER
2	2-1-05	BATHHOUSE AND SHOWER EXPANDED

REVISED APRIL 19 1978
REVISED 6/2/78
REVISE PARKING PER 90°
REVISE TREES AND PIPE STOPS
REVISE RAMP STEP
RELOCATE HANDICAPED SPACES

ARCHITECTURAL REGISTRATION BOARD 2338-A STATE OF MARYLAND

REVISED 4/10/78
REVISED 5/24/78 ADD STD. CURB
REVISE PARKING STALL ARRANGEMENT
MAKE TRAVEL 28' AT CURB OPENING

COLUMBIA
VILLAGE OF OWEN BROWN
Lots 227

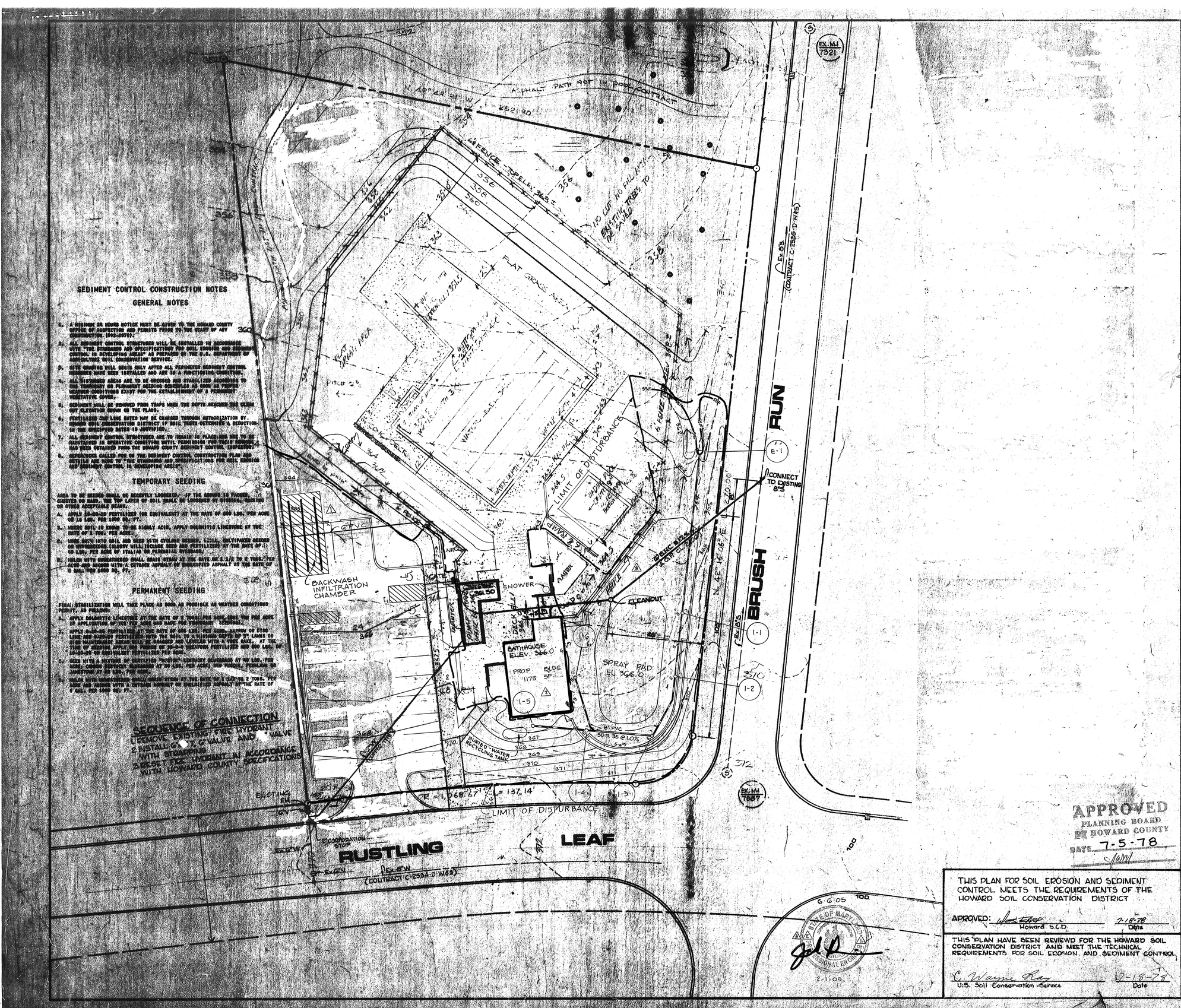
REVISION BY ARB 6/27/78

SECTION 2 AREA 2
LOT 227

PLAT NUMBER 5962
Tax Map No.
ELECTION DISTRICT
Owner

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER 11-9-99

SDP-78-124c 1 of 2



SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

1. A MINIMUM OF TWO WEEKS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2070).
2. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE.
3. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONAL CONDITION.
4. ALL DISTURBED AREAS ARE TO BE GROSSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS FAVORABLE WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
5. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
6. FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A DEFICIENCY IN THE SPECIFIED RATES IS IDENTIFIED.
7. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATING CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
8. OPERATIONS CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE NOT TO THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

TEMPORARY SEEDING

AREA TO BE SEEDED SHALL BE GENERALLY LOOSENED. IF THE GROUND IS FROZEN, SCARIFY OR DISC. THE TOP LAYER OF SOIL SHALL BE LOOSENED BY HARROW, RAKING OR OTHER ACCEPTABLE MEANS.

A. APPLY 10-20-20 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
B. WHERE SOIL IS FOUND TO BE HIGHLY ACID, APPLY AGRICULTURAL LIMESTONE AT THE RATE OF 2 TONS PER ACRE.
C. WORK SOIL INTO SOIL AND SEED WITH CYCLONE SEEDER, HYDROSEEDER OR SPRINKLER. (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 1 LB. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
D. MULCH TEMPORARILY SEEDED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A STRAW ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GALS. PER 1000 SQ. FT.

PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

A. APPLY AGRICULTURAL LIMESTONE AT THE RATE OF 2 TONS PER ACRE (90 LBS. PER 1000 SQ. FT.) IMMEDIATELY AFTER THE AREA HAS BEEN FINAL GRADED.
B. APPLY 5-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND FERTILIZER INTO SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR OTHER GRASSED AREAS SHOULD BE ROLLED TO A FIRM SURFACE. AT THE TIME OF SEEDING, APPLY THE FOLLOWING 5-20-20 FERTILIZER AND 600 LBS. OF UREA OR EQUIVALENT FERTILIZER PER ACRE.
C. SEED WITH A MIXTURE OF KENTUCKY BLUEGRASS, CREEPING RED FESCUE AT 90 LBS. PER ACRE, PERENNIAL RYEGRASS AT 20 LBS. PER ACRE, AND ALSO INCLUDE 50 ADDITIONAL LBS. OF SEED PER ACRE.
D. MULCH WITH UNCHOPPED, UNROTTED STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A STRAW ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GALS. PER 1000 SQ. FT.

SEQUENCE OF CONNECTION

1. REMOVE EXISTING FIRE HYDRANT.
2. INSTALL 6" X 6" VALVE AND STOP WITH STOP BOX.
3. RESET FIRE HYDRANT IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS.

APPROVED
PLANNING BOARD
HOWARD COUNTY
DATE 7-5-78

THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: Howard S.C.D. 2-16-78 Date

THIS PLAN HAVE BEEN REVIEWD FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

C. Wayne Ray — U.S. Soil Conservation Service — 12-18-77 Date

STATE OF MARYLAND — PROFESSIONAL ENGINEER — 2-1-05

"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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY".

DEVELOPER — DATE 4-24-78

"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".

July 12, 1978

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

COUNTY HEALTH OFFICER — DATE 7-28-78

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 7-31-78

CHIEF, DIV. OF LAND DEVELOPMENT — DATE 7-31-78

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

DIRECTOR — DATE 7/25/78

CHIEF, BUREAU OF ENGINEERING — DATE 7-24-78

SEDIMENT CONTROL STONE OUTLET DATA:

DRAINAGE AREA	-	1.28 AC
DISTURBED AREA	-	1.28 AC.
VOLUME (C.Y.):		
REQUIRED:		86
AVAILABLE:		86
CLEANOUT ELEVATION	-	354.0
DEPTH TO CREST	-	2.0'
BOTTOM DIMENSIONS	-	25'x46'

SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE
3. INSTALL STONE OUTLET SEDIMENT TRAP AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
4. INSTALL PERIMETER AND DIVERSION DIKES AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
5. INSTALL EXCAVATED TRAP.

REVISED 6/78
REVISED PARKING PER SDP 78
REVISED 2/79 PER SDP
REVISED 2/79 PER SDP
DELINEATE HANDICAPPED SPACES

No.	DATE	REVISION
3	9-7-05	ADDED SPRAY PAD & EXPANDED PARKING
2	2-6-05	BATHHOUSE AND SHOWER EXPANDED
1	9-27-99	ADDED INFILTRATION CHAMBER

ARCHITECTURAL REGISTRATION 130-A — STATE OF MARYLAND

COLUMBIA
VILLAGE OF OWEN BROWN
Lot 337

REVISION TO APPR. SDP-78-88
REVISED 6-6-05
SECTION 2, AREA 3
LOT 337

PLAT NUMBER 3852
Tax Map No. 42
ELECTION DISTRICT GUILFORD NO. 6
HOWARD COUNTY, MARYLAND

HOPEWELL NEIGHBORHOOD CENTER SWIMMING POOL FACILITY

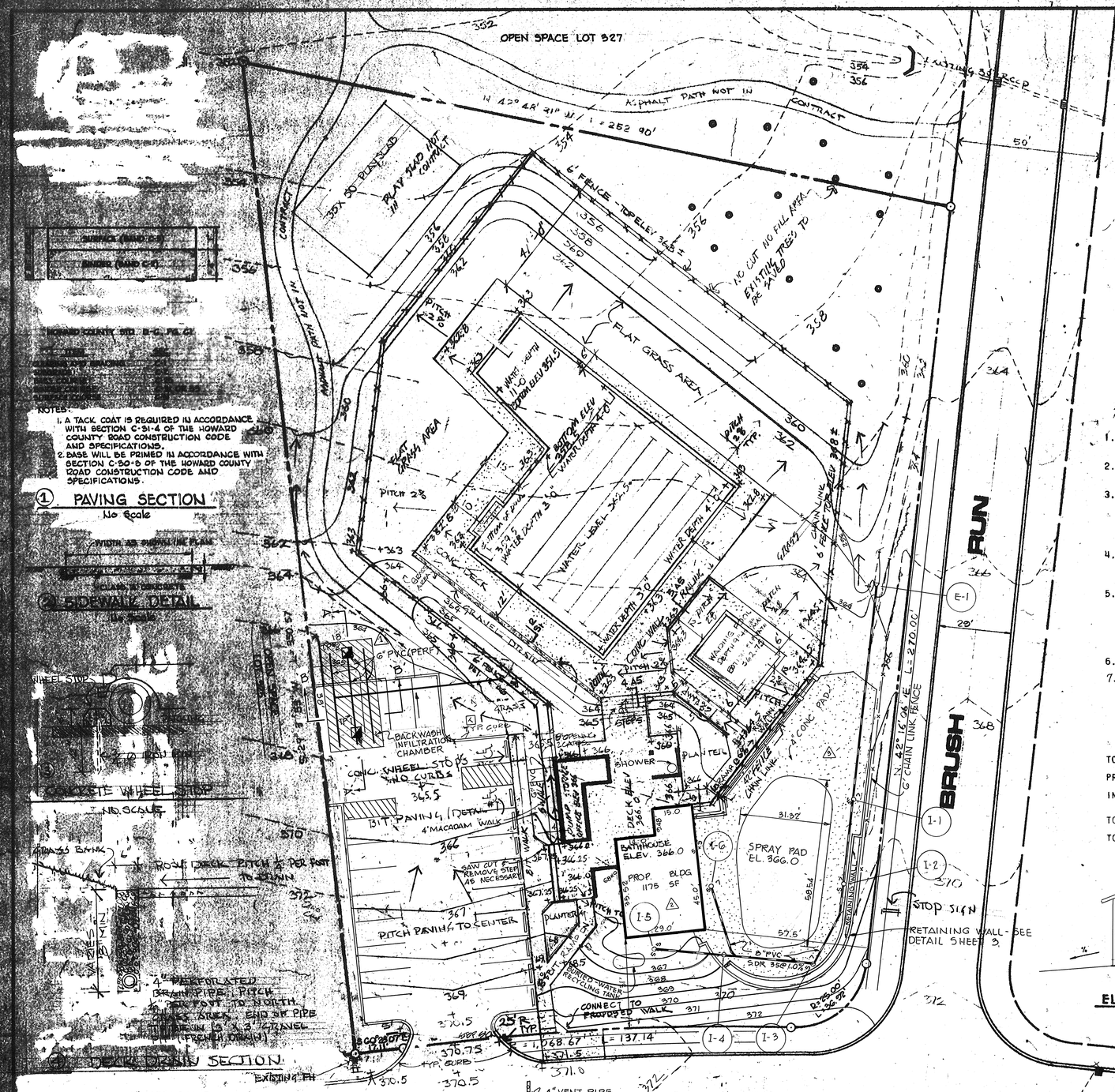
CROZIER ASSOCIATES
LANDSCAPE ARCHITECTS/PLANNERS
VILLAGE OF CROSS KEYS
SUITE 405 EAST, QUADRANGLE
BALTIMORE, MARYLAND 21210
301-323-6616

Robert J. Moon
Architect

SHEET TITLE: UTILITY AND SEDIMENT CONTROL PLAN

DRAWN BY: [illegible]
DATE: [illegible]
SCALE: 1" = 20'
SHEET: 1 OF 1

SDP-78-124c 2 OF 5

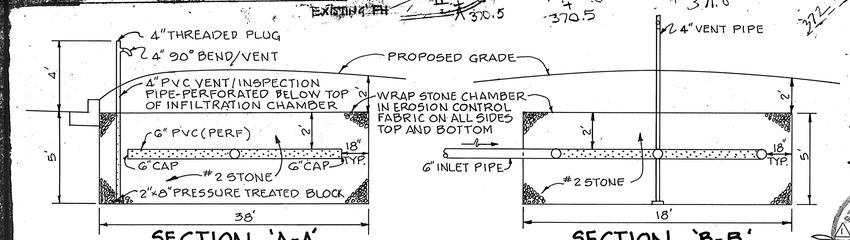


NOTES:

1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-8 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.

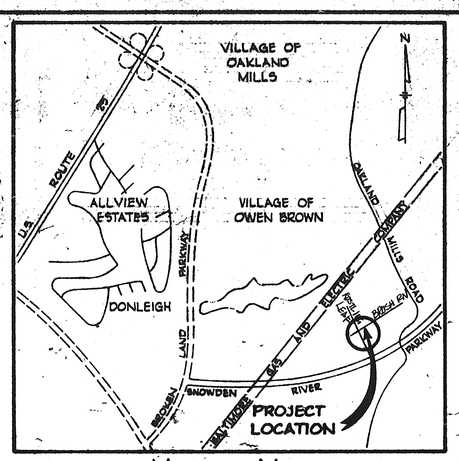
① PAVING SECTION
No Scale

② SIDEWALK DETAIL
No Scale



SECTION 'A-A' SECTION 'B-B'

BACKWASH INFILTRATION CHAMBER DETAIL
NO SCALE



VICINITY MAP
Scale: 1"=2,000'

GENERAL NOTES

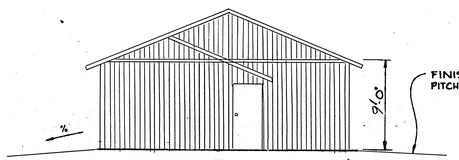
1. ALL WATER AND SEWER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM OF 3'-0" COVER BELOW FINISHED GRADE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE INDICATED BY THE ENGINEER, A MINIMUM OF FIVE DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS PRIOR TO STARTING THE WORK SHOWN ON THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 or 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000 Ext.691

6. SEE SHEET 2 OF 2 FOR SEDIMENT CONTROL DETAILS.
7. ROSTLING LEAF & BRUSH RUN ARE EXISTING PUBLIC STREETS.

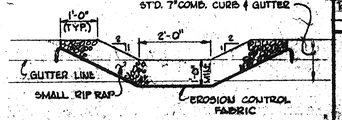
SITE ANALYSIS

TOTAL AREA OF PARCEL:	1.545 ACRES*
PRESENT ZONING:	NEW TOWN FDP PB 28, F40 SEE FDP 118, PART V & FDP 118-A-1, PART III
INTENDED USE OF SITE:	RECREATIONAL FACILITY - SWIMMING POOL
TOTAL DAILY USERS:	240 PERSONS
TOTAL BUILDING COVERAGE:	1680 SQ. FT.



ELEVATION - BATHHOUSE BUILDING
No Scale

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 7-5-78



RIP RAP CHANNEL @ CURB OPENING
No Scale

THE PURPOSE OF THIS REVISION IS TO EXPAND THE EXISTING PARKING LOT AND TO ADD A SPRAY PAD WATER FEATURE TO THE SITE.

2-1-05

STATE OF MARYLAND — GEORGE RAY HEWITT — REGISTERED PROFESSIONAL ENGINEER — No. 11676

6-6-05

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE MADE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

DEVELOPER — DATE

"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".

DATE

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

COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE

CHIEF, DIV. OF LAND DEVELOPMENT — DATE

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

Richard E. Fruedenberg 7/25/78
DIRECTOR — DATE

W O Gilbert 7-27-78
CHIEF, BUREAU OF ENGINEERING — DATE

No.	DATE	REVISIONS
1	9-27-99	ADDED INFILTRATION CHAMBER
2	2-1-05	BATHHOUSE AND SHOWER EXPANDED
3	5-7-05	ADD SPRAY PAD & EXPANDED PARKING

REVISED APRIL 19 1978
REVISED 6/26/78 REVISE PROFILE PER DPW
RELOCATE HYD. REVISE STREET STOPS
REVISE GRASS STEP
RELOCATE HANDICAPED SPACES

ARCHITECTURAL REGISTRATION BOARD — 2338-A — STATE OF MARYLAND

REVISED 6/20/78

REVISED 3/24/78 ADD STEP & RAMP
REVISE ENTRY STEPS AND RAMP
MAKE PARKING 25' AS SHOWN

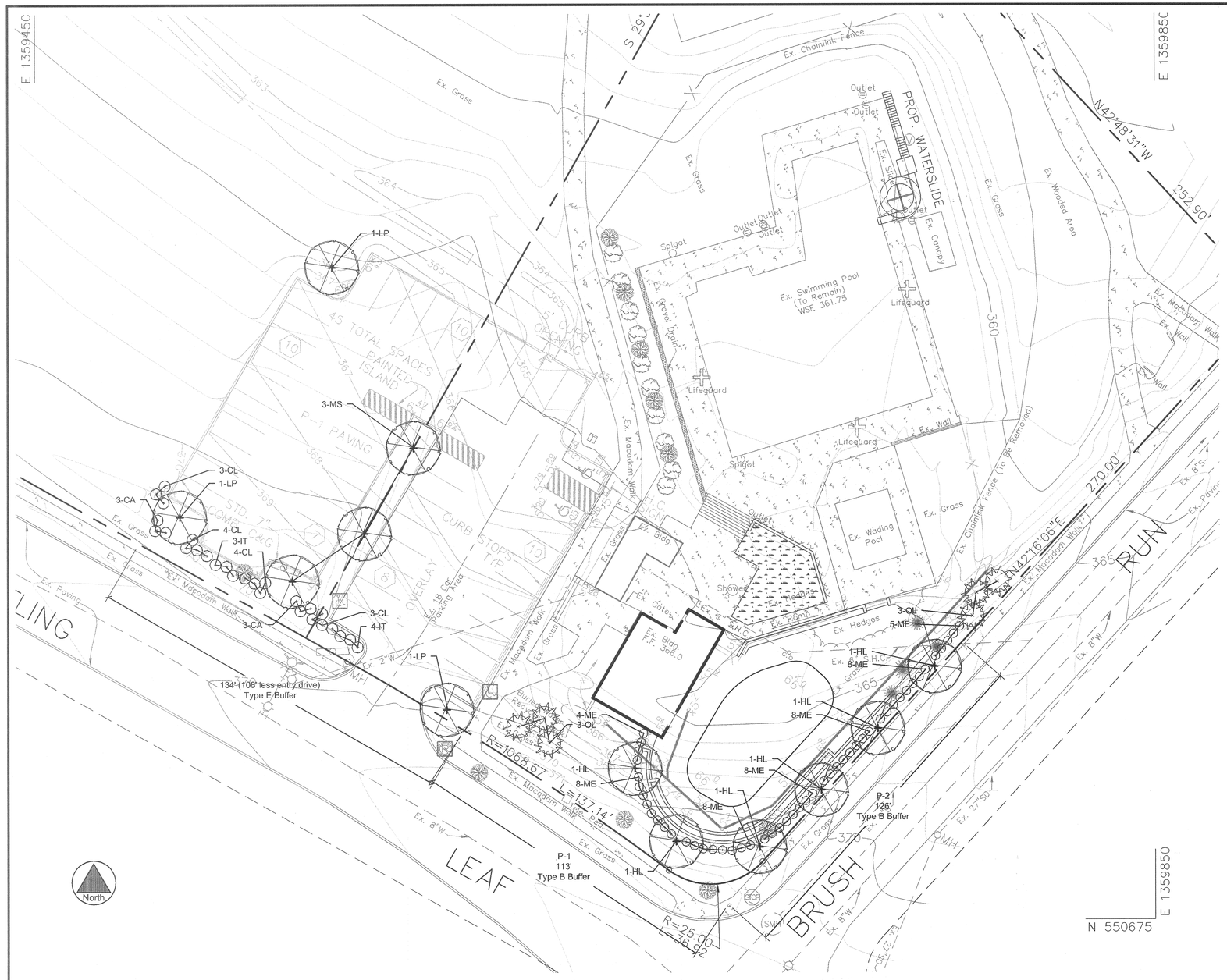
COLUMBIA
VILLAGE OF OWEN BROWN
Lots 227

REVISION BY APPROVAL 7/5/78

REVISED 2-1-05
SECTION 2 AREA 3
LOT 227

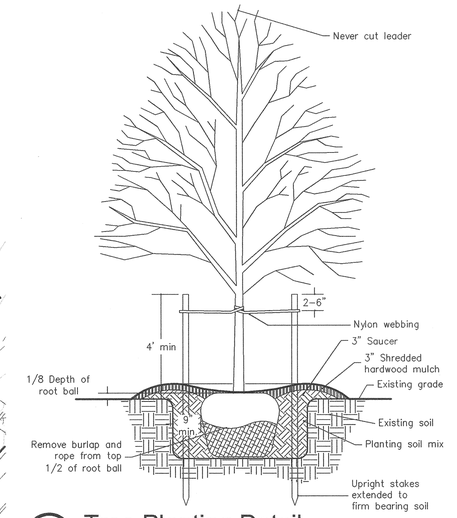
PLAT NUMBER 5002
Tax Map No.
ELECTION DISTRICT 6 TH
HOWARD COUNTY, MARYLAND

SDP-78-124c 1 OF 5



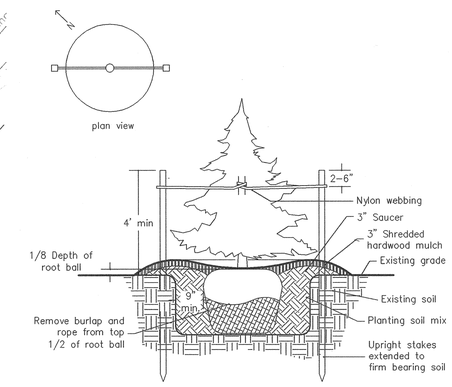
Landscape Plan

Scale: 1"= 20'-0"



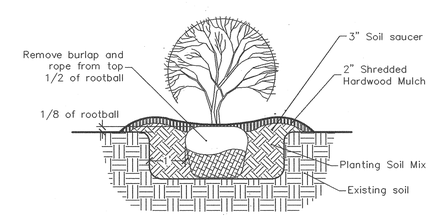
1 Tree Planting Detail

Scale: 1/2"= 1'-0"



2 Evergreen Tree Planting Detail

Scale: 1/2"= 1'-0"



3 Shrub Planting Detail

Scale: 1/2"= 1'-0"

Landscape Notes

1. Contractor shall be responsible for making himself familiar with all existing on-site conditions prior to submission of bid. The contractor is responsible for the location of all underground utilities, pipes, and structures. Contractor shall take sole responsibility for any cost incurred due to damage of said utilities. Call Miss Utility, 48 hours, prior to digging. (1-800-257-7777)
2. Size and standards of plant materials shall conform to latest edition of "USA Standards For Nursery Stock", by the American Association of Nurserymen, Inc. (AAN).
3. All planting procedures and specifications shall conform to "Landscape Guidelines for Baltimore-Washington Metropolitan Area" latest edition.
4. Contractor shall guarantee all plant material for one (1) year from planting approval/acceptance.
5. Contractor shall confirm quantity of plant materials by plan count.
6. Plant pit backfill shall be a uniform mixture of one (1) part topsoil, two (2) parts existing soil and one (1) part Leafgrow® or approved alternative organic compost.
7. All mulch to be shredded hardwood mulch.
8. All plants shall be thoroughly watered by the contractor immediately following installation.
9. Contractor to adjust plant locations in field as necessary.
10. All plants shall be placed as not to obstruct drainage.
11. No plant substitutes without prior approval.
12. Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Engineer prior to installation of plant material.
13. All areas not otherwise indicted are to be seeded or sodded as per plan project specifications and in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control.
14. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual.

Schedule A - Perimeter Landscape Edge

Category	Parking Adjacent to Roadways	Adjacent to Roadways P-1	Adjacent to Roadways P-2
Landscape Type	E	B	B
Linear Feet of Roadway Frontage/Perimeter	108	113	126
Credit for Existing Vegetation (Yes, No, Linear Feet)	No	No	No
Credit for Wall, Fence, or Berm (Yes, No, Linear Feet)	No	No	No
Number of Plants Required			
Shade Trees	3	2	3
Evergreen Trees	0	3	3
Shrubs	27	0	0
Number of Plants Provided			
Shade Trees	3	2	4
Evergreen Trees	0	3	3
Shrubs	27	20	29
Other Trees (2:1 Sub.)	0	0	0

Schedule B - Parking Lot Internal Landscaping

Number of Parking Spaces	45
Number of Trees Required	2
Number of Trees Provided	
Shade Trees	3
Other Trees (2:1 Sub.)	0

Plant List

Quan.	Key	Botanical Name	Common Name	Size	Remarks
Trees					
6	HL	Gleditsia tricanthos inermis 'Shademaster'	Shademaster Honeylocust	2 1/2-3"	B&B or cont.
3	LP	Platanus acerifolia 'Bloodgood'	Bloodgood London Planetree	2 1/2-3"	B&B or cont.
3	MS	Fraxinus pennsylvantica 'Marshall's Seedless'	Marshal's Seedless Ash	2 1/2-3"	B&B or cont.
6	OL	Ilex x 'Oak Leaf'	Oak Leaf Red Holly	6-8' ht.	B&B or cont.
Shrubs					
6	CA	Clethera alnifolia 'Pink Spires'	Pink Spires Summersweet	24-30" ht.	B&B or cont.
14	CL	Prunus laurocerasus 'Otto Luykens'	Cherry Laurel	24-30" ht.	B&B or cont.
7	IT	Itea virginiana 'Little Henry'	Virginia Sweetspire	24-30" ht.	B&B or cont.
49	ME	Euonymus kiautschovicus 'Manhattan'	Manhattan Euonymus	18-24" ht.	B&B or cont.

TP+A
Landscape Architecture
Environmental Planning
TIMOTHY PRIGG+ASSOCIATES
208 Mallow Hill Road - Baltimore, Maryland 21229
410/368-4850 fax: 410/368-4859

6.6.05
Date

STATE OF MARYLAND
TIMOTHY T. PRIGG
REGISTERED LANDSCAPE ARCHITECT
NO. 1000

TIMOTHY T. PRIGG
Landscape Architect No. 1000

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 6/20/05
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 7/13/05
DIRECTOR	DATE 7/15/05

Date	No	Revision Description
3-7-2005	3	Add Spray Pad And Expanded Parking

PROJECT:

HOPEWELL NEIGHBORHOOD CENTER SWIMMING POOL

COLUMBIA, MARYLAND 21044
VILLAGE OF OWEN BROWN
LOTS 325 & 337 SECTION 2 AREA 3
PLAT #3852 Grid 42, Elec. Dist. No. 6
HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER:

COLUMBIA ASSOCIATION
ATTN: DENNIS MATTEY
10221 WINCOPIN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 381-0591

TITLE:

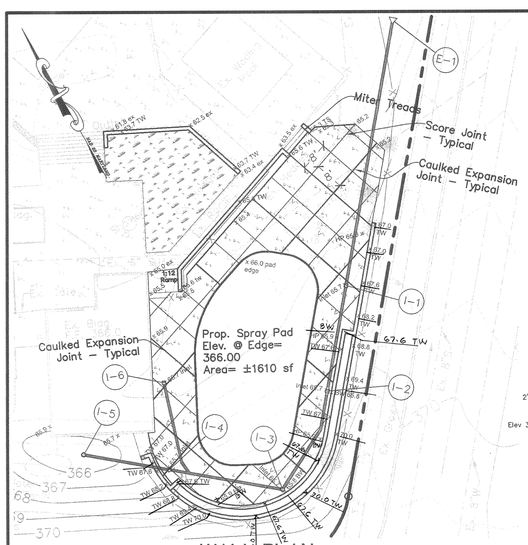
LANDSCAPE PLAN

PREPARED BY:

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
1420-A JOH AVENUE
BALTIMORE, MARYLAND 21227
(410) 247-8833 FAX 247-9397

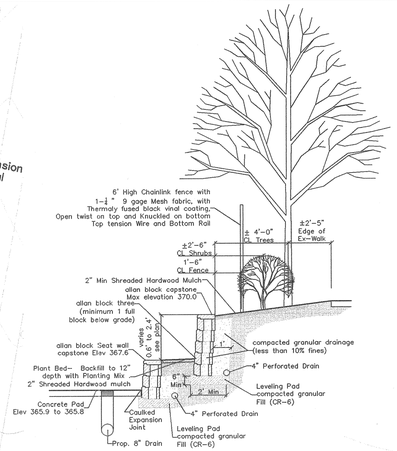
Des By D.J.M.	Scale 1" = 20'	Proj No 04-040	
Drn By D.J.M.	Date APRIL, 2005	Drawing No. De01.dwg	
Chk By T.T.P.		5 OF 5	

SDP 78-124c



WALL PLAN

1" = 20'



TYP. SECTION @ RETAINING WALL

NOT TO SCALE

PHASE 2– SEQUENCE OF CONSTRUCTION

(1 DAY)	DAY 1	OBTAIN A GRADING PERMIT
(2 DAYS)	DAY 2–3	CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE WITH A MOUNTABLE BERM (SCE).
(3 DAYS)	DAY 4–6	CLEAR AND GRUB AREA FOR, AND INSTALL REMAINING SEDIMENT CONTROL DEVICES, AND GET PERMISSION FROM SEDIMENT CONTROL INSPECTOR BEFORE PROCEEDING.
(5 DAYS)	DAY 7–12	GRADE WATER QUALITY SWALE AND STABILIZE AS PER TEMPORARY SEEDING NOTES.
(12 DAYS)	DAY 13–25	ROUGH GRADE SITE AND STABILIZE AS PER TEMPORARY SEEDING NOTES.
(20 DAYS)	DAY 26–46	CONSTRUCT PARKING LOT AND SPRAY POOL.
(8 DAYS)	DAY 47–55	FINE GRADE SITE AND SEED DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
(6 DAYS)	DAY 56–61	WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.

NOTES:

1. RETAINING WALL TO BE AS DESIGNED AND MANUFACTURED BY THE ALLAN BLOCK CORPORATION, 5300 EDINA INDUSTRIAL BLVD, SUITE 100, EDINA, MN. 55439 952-835-5309 OR APPROVED EQUAL.

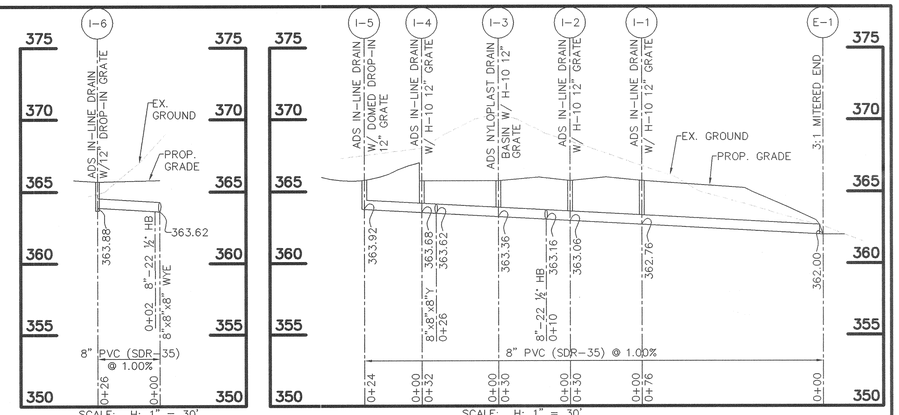
2. THE LEVELING PAD SUB-GRADE BEARING MUST BE CERTIFIED BY A MARYLAND REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

3. THE RETAINING WALL CONSTRUCTION MUST BE INSPECTED BY A QUALIFIED ENGINEER DURING CONSTRUCTION.

4. RETAINING WALLS SHALL ONLY BE CONSTRUCTED UNDER THE OBSERVATION OF A REGISTERED PROFESSIONAL ENGINEER OR A (NICET, WACEL, OR EQUIVALENT) CERTIFIED SOILS TECHNICIAN.

5. THE REQUIRED BEARING PRESSURE BENEATH THE FOOTING OF THE WALL SHALL BE VERIFIED IN THE FIELD BY A CERTIFIED SOILS TECHNICIAN. TESTING DOCUMENTATION SHALL BE PROVIDED TO THE HOWARD COUNTY INSPECTOR PRIOR TO THE START OF CONSTRUCTION. THE REQUIRED TEST PROCEDURE SHALL BE THE DYNAMIC CONE PENETROMETER TEST ASTM STP-399.

6. THE SUITABILITY OF THE FILL MATERIAL SHALL BE CONFIRMED BY THE ON-SITE SOILS TECHNICIAN. EACH EIGHT INCH LIFT MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY AND THE TESTING REPORT SHALL BE MADE AVAILABLE TO THE HOWARD COUNTY INSPECTOR UPON COMPLETION OF CONSTRUCTION.



SCALE: H: 1" = 30' V: 1" = 5'

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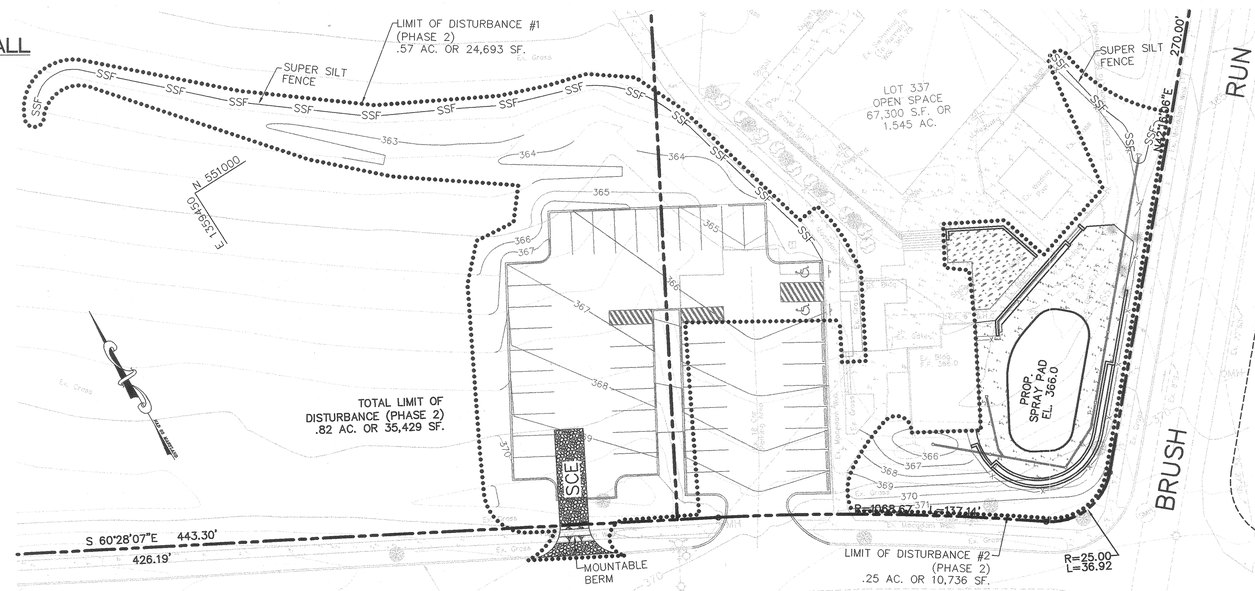


SEDIMENT CONTROL PLAN-PHASE 2

1" = 30'

1. FREESTANDING SIGN 7'-0" ABOVE FINISHED GRADE MOUNTED ON WALL OR STRUCTURE 6'-0" ABOVE GROUND.

2. TWO SEPARATE SIGNS TO BE APPLIED TO METAL SIGN BOARD MOUNTED TO METAL POST.

CHARACTERS:

$98 FINE SIGN

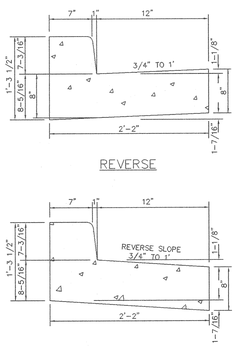
SIGN TO UTILIZE AN ALUMINUM BLANK 6"x12"x0.060 INCH THICK WITH TWO SINGLE POST MOUNTING HOLES.

THE TEXT AND BORDER SHALL BE STANDARD GREEN TO MATCH THAT ON R7-8 AND THE BACKGROUND SHALL BE REFLECTIVE WHITE. TEXT SHALL BE IN 3" SIGN

SHALL BE MOUNTED DIRECTLY BELOW THE STANDARD R7-8 RESERVED PARKING FOR HANDICAPPED SIGN. ITS BOTTOM EDGE SHALL BE NO LESS THAN 7 FEET ABOVE GROUND. IF THE SIGN IS PLACED AGAINST A BUILDING, STRUCTURE, OR OTHER LOCATION WHERE VEHICLE OR PEDESTRIAN TRAFFIC IS NOT OBSTRUCTED THE BOTTOM EDGE OF SIGN SHALL BE AT LEAST 6 FEET BUT NOT MORE THAN 10 FEET ABOVE GROUND.

HANDICAP SIGN DETAIL

NOT TO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)

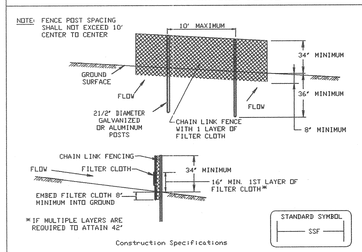
GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

STANDARD 7" COMBINATION CURB AND GUTTER

NOT TO SCALE

DETAIL 33 – SUPER SILT FENCE

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER



Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" Fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test- MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test- MSMT 509
Flow Rate	0.3 gal/ft²/minute (max.)	Test- MSMT 322
Filtering Efficiency	75% (min.)	Test- MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE

Construction Specification

1. Length - minimum of 50' (*30' for single residence lot).

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.

4. Stone - crushed aggregate (2" to 3"), or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F - 17 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

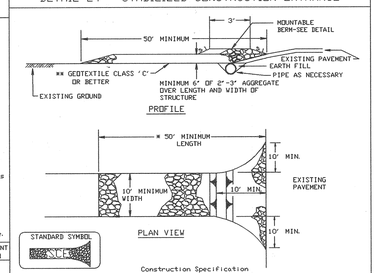
SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F - 17 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ENGINEER'S CERTIFICATE

"I/WE 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 COUNTY SOIL CONSERVATION DISTRICT."

ENGINEER: JOHN R. HEINRICHS, VICE PRESIDENT
PHOENIX ENGINEERING, INC. — DATE 6.6.05

DEVELOPER'S CERTIFICATE

"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 MARYLAND 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: DENNIS MATTEY
COLUMBIA ASSOCIATION — DATE 6.6.05

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

NATURAL RESOURCES CONSERVATION SERVICES — DATE 6/22/05

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 6/22/05

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE 7/1/05

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 6/27/05

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 7/13/05

DIRECTOR — DATE 7/15/05

Date	No	Revision Description
3-7-2005	3	Add Spray Pad And Expanded Parking

PROJECT:

HOPEWELL NEIGHBORHOOD CENTER SWIMMING POOL

COLUMBIA MARYLAND 21044
VILLAGE OF OWEN BROWN
LOTS 325 & 337 SECTION 2 AREA 3
PLAT #3852 Grid 42, Elec. Dist. No. 6
HOWARD COUNTY, MARYLAND

OWNER/DEVELOPER:

COLUMBIA ASSOCIATION
ATTN: DENNIS MATTEY
10221 WINCOPIN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 381-0591

TITLE: **REVISED**

SEDIMENT CONTROL PLAN, PROFILE, DETAIL, & RETAINING WALL PLAN

6.6.05
Date

STATE OF MARYLAND — JOHN RAY HEINRICHS — No. 14920 — REGISTERED PROFESSIONAL ENGINEER

JOHN R. HEINRICHS
Professional Engr. No. 14920

PREPARED BY:

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
1420-A 10H AVENUE
BALTIMORE, MARYLAND 21227
(410) 247-8833 FAX 247-9397

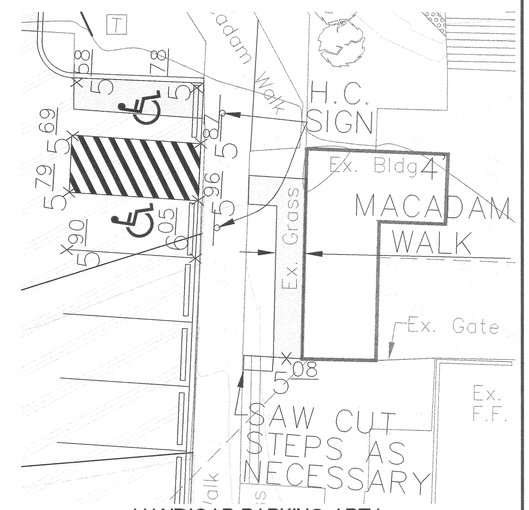
Des By R.J.W.	Scale AS SHOWN	Proj No 04-040	
Drn By S.E.W.	Date APRIL, 2005	Drawing No. D601.dwg	
Chk By J.R.H.		4 OF 5	

SDP 78-124c

BM #36IB — ELEV. 385.723' NAVD 88
STAMPED DISC IN NORTHEASTERN ISLE AT INTERSECTION OF SNOWDEN RIVER PARKWAY & McGRAW ROAD.
N 553348.637 — NAD 83
E 1364085.26

BM #42CA — ELEV. 376.493' NAVD 88
STAMPED DISC 5.5' BEHIND FACE OF EASTERN MOST CURB OF THE NORTH BOUND LANE OF SNOWDEN RIVER PARKWAY, 22.4' NORTH OF EXIT RAMP FROM ROBERT FULTON DRIVE.
N 551695.734 — NAD 83
E 1362506.43

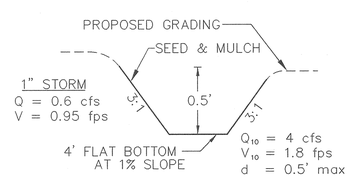
PLAN
1" = 30'



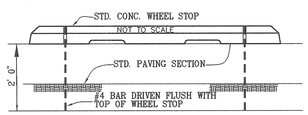
HANDICAP PARKING AREA
1" = 10'

LEGEND

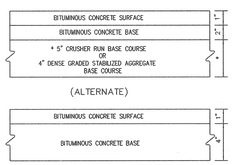
P-1 PAVING		PROPERTY LINE	
1" PAVING OVERLAY		PROPOSED CHAINLINK FENCE	
PROPOSED CONCRETE		SPOT ELEVATION	x52.61
PROPOSED SOD		EXISTING CONTOUR	190
EX. HEDGEROW		PROPOSED CONTOUR	190



GRASS CHANNEL DETAIL
(NOT TO SCALE)



CURB STOP
NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

P-1 PAVING
NOT TO SCALE

6.7.05
Date

STATE OF MARYLAND — JOHN R. HEINRICHS — No. 14920 — REGISTERED PROFESSIONAL ENGINEER

JOHN R. HEINRICHS
Professional Engr. No. 14920

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER — DATE 7/11/05
HOWARD COUNTY HEALTH DEPARTMENT SFO

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 6/20/05
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 7/13/05
DIRECTOR — DATE 7/15/05

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3-7-05	1	Added Spray Pad And Expanded Parking

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ATTN: DENNIS MATTEY
10221 WINCOPIN CIRCLE
COLUMBIA, MARYLAND 21044
(410) 381-0591

TITLE:
REVISED
PROPOSED DEVELOPMENT PLAN

PREPARED BY:
PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
1420-A JOH AVENUE
BALTIMORE, MARYLAND 21227
(410) 247-8833 FAX 247-9397

Des By R.J.W.	Scale 1"=30"	Proj No 04-040	
Drn By S.E.W.	Date APRIL, 2005	Drawing No. Ps02.dwg	
Chk By J.R.H.		3 OF 5	

SDP 78-124c