

- LEGEND**
- PROPERTY LINE
 - PROPOSED BUILDING
 - PROPOSED CURB & GUTTER (HOWARD COUNTY STD. 7" CONC. CURB & GUTTER Dwg. D-47, PAGE 95)
 - STORM DRAINAGE PIPE & STRUCTURE
 - PROPOSED STORM DRAINAGE PIPE & STRUCTURE
 - EXISTING PAVING TO REMAIN
 - EXISTING PAVING TO BE REMOVED (UNDER ELDG. CONTRACT)
 - PROPOSED CONCRETE WALK
 - PROPOSED TUMINOUS CONCRETE PAVING
 - CURVE REFERENCE --SEE CURVE DATA TABLE
 - PROPOSED ROOF DRAINS AND STORM SEWER UNDER BLDG. CONTRACT
 - LIMIT OF PROPOSED BUILDING CONTRACT
 - PROPOSED PAINTED LINES FOR PARKING SPACES

COMPLETE SET OF SITE PREPARATION DRAWINGS CONSIST OF THE FOLLOWING:

- | | |
|---|-------------|
| LAYOUT PLAN--NORTH | PS-1 |
| LAYOUT PLAN--SOUTH | PS-2 |
| GRADING PLAN AND SEDIMENT CONTROL PLAN--NORTH | PS-3 |
| GRADING PLAN AND SEDIMENT CONTROL PLAN--SOUTH | PS-4 |
| SITE DETAILS & STRUCTURE TABLE | PS-5 |
| STORM DRAINAGE PROFILES | PS-6 |
| STORM DRAINAGE PROFILES (CONTINUED) | PS-7 |
| DRAINAGE DIVIDES | DD-1 & DD-2 |
| STORM DRAINAGE COMPUTATIONS | 14 |

IRWIN DASHER
399/480
482/501

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE APR 16 1975 4/16/75

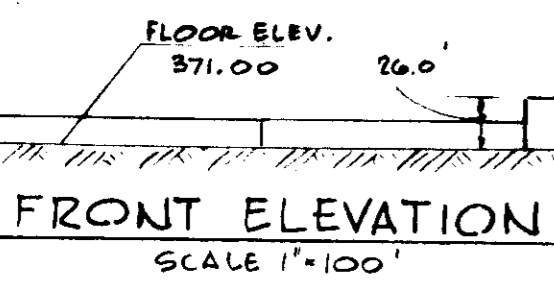
Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
James M. P. [Signature] Date 4-21-75
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT
Approved [Signature] Date 4-21-75
Howard S.C.D. M.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<u>[Signature]</u>	4/20/75
COUNTY HEALTH OFFICER	DATE
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<u>Thomas G. Harris</u>	5-1-75
PLANNING DIRECTOR	DATE
<u>J.H. Clavon</u>	5/1/75
CHIEF DIVISION OF LAND DEVELOPMENT	DATE
TRANSPORTATION PLANNING	
APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<u>Willie A. [Signature]</u>	4/21/75
DIRECTOR	DATE
<u>[Signature]</u>	4/22/75
CHIEF BUREAU OF HIGHWAYS	DATE

VILLAGE OF OWEN BROWN
AREA OF SITE 30.00 Ac.
RECORDED IN PLAT BOOK FOLIO
TAX MAP
ELECTION DISTRICT #6
OWNER: BOARD OF EDUCATION HOWARD COUNTY, MD.
8045 Route 32
Clarksville, MD 21029

SCALE: 1"=50'

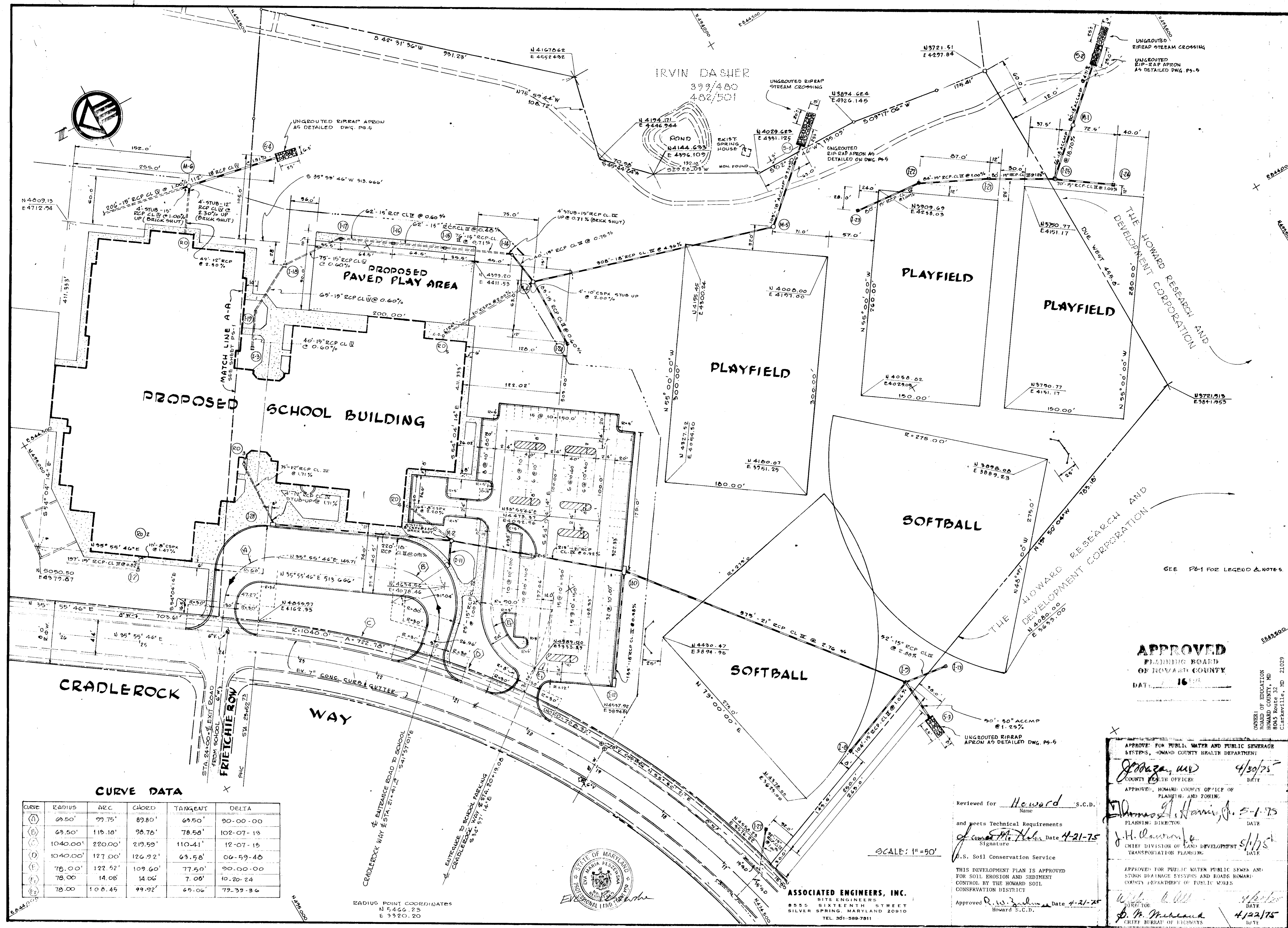
ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
8888 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-589-7311



LAYOUT NOTES

- This set of drawings serves to "Pre-Grade" the property for a Future Middle & Elementary School.
- All disturbed areas outside the Future Building Contract Area shall be topsoiled, limed, fertilized, seeded and mulched.
- All construction and materials shall be in accordance with the Howard County Road Construction Code and the applicable provisions of the Maryland State Highway Administration "Specifications for Materials, Highways, Bridges and Incidental Structures".
- All fill and backfill for storm drainage pipes and structures shall be compacted to 95% density at optimum moisture content.
- All existing paving, curbs, walks and grass areas disturbed by this construction shall be repaired at no extra cost.
- Contractor shall contact "Miss Utility" at least 24 hours prior to beginning of construction.

COLUMBIA COUNTY
 HOWARD COUNTY
 MARYLAND
 ELECTION DISTRICT #6
 LAYOUT PLAN
 NORTH
 DASHER GREEN ELEMENTARY
 OWEN BROWN MIDDLE SCHOOLS
 VILLAGE OF OWEN BROWN, SECTION 1, AREA 4, OPEN SPACE LOT #6
 PS-1
 SDP-75-58C



CURVE DATA

CURVE	RADIUS	ΔZC	CHORD	TANGENT	DELTA
(A)	65.50'	97.75'	89.80'	69.50'	90-00-00
(B)	69.50'	119.10'	98.78'	78.58'	102-07-19
(C)	1040.00'	220.00'	219.59'	110.41'	12-07-19
(D)	1040.00'	127.00'	126.92'	63.58'	06-59-40
(E)	78.00'	122.52'	109.60'	77.50'	90-00-00
(F)	78.00'	14.08'	14.06'	7.06'	10-20-24
(G)	78.00'	108.45'	99.92'	65.06'	79-39-36

RADIUS POINT COORDINATES
N 5466.23
E 9920.20



ASSOCIATED ENGINEERS, INC.
SITE ENGINEERS
8555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-580-7811

SCALE: 1" = 50'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 16

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

J. J. J. J. 4/30/75
COUNTY HEALTH OFFICER DATE

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas G. Harris, Jr. 5-1-75
PLANNING DIRECTOR DATE

J. H. Lawrence 5/1/75
CHIEF DIVISION OF LAND DEVELOPMENT TRANSPORTATION PLANNING DATE

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

William B. Williams 4/22/75
DIRECTOR DATE

P. M. McKeown 4/22/75
CHIEF BUREAU OF HIGHWAYS DATE

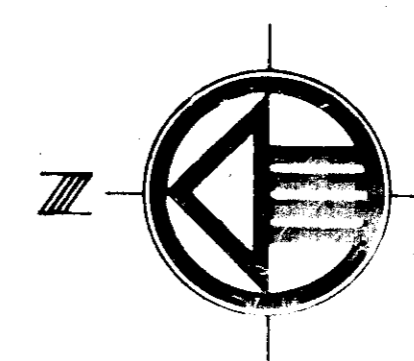
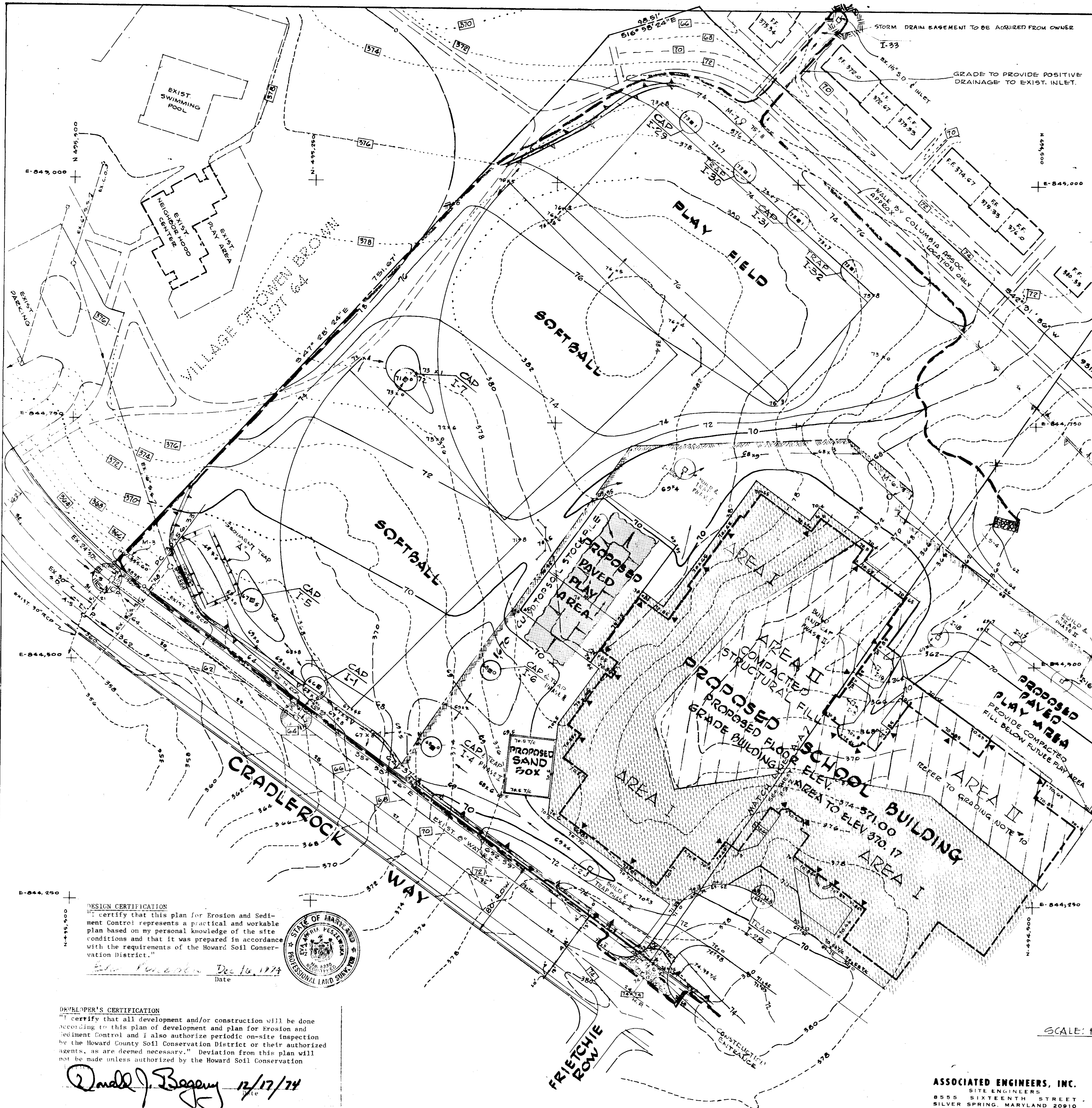
Reviewed for *Howard* S.C.D.
Name

and meets Technical Requirements
James M. H. H. Date 4-21-75
Signature

U.S. Soil Conservation Service

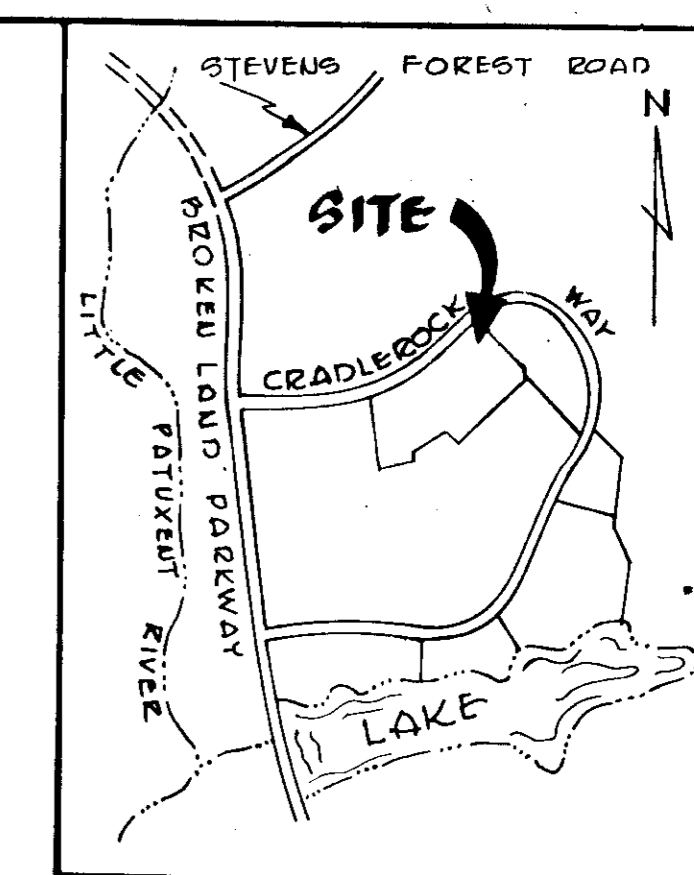
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT

Approved *R. W. J. J.* Date 4-21-75
Howard S.C.D.



SITE ANALYSIS (ULT.)

A. RECORDED SCHOOL SITE	30.0 AC
B. TOTAL AREA USED	33.2 AC
C. AREA OF ROOFS AND PAVING	6.3 AC
D. AREA OF SEEDING	23.0 AC
E. AREA UNDISTURBED	3.9 AC



VICINITY MAP
SCALE: 1"=2000'

LEGEND

- - - 370	EXISTING CONTOURS
- - - 70	DESIGN CONTOURS
- - - 74.5	EXISTING SPOT GRADES
- - - 75.4	FINISH DESIGN GRADES
---	LIMIT OF AREA WHICH DOES NOT RECEIVE TOPSOIL NOR SEEDING
---	LIMIT OF GRADING
---	TEMPORARY EARTH DIVERSION OR INTERCEPTOR DIKE
---	TEMPORARY CAP AT INLET
---	TEMPORARY TRAP AT INLET
---	TEMPORARY STONE DIKE
---	TEMPORARY SILT TRAP WITH STONE OUTFALL
- - - 14	EXISTING CONTOURS BASED ON DESIGN BY AVAILABLE CONTRACT DRAWINGS
---	FUTURE BUILDING ENTRANCE
---	TREES TO REMAIN
---	TREES TO BE REMOVED
---	TEMPORARY STRAW BALE SILT BARRIER
---	TEMPORARY STRAW BALE DIES FOR USE DURING BUILDING CONSTRUCTION ONLY

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 4/21/75

- SEDIMENT CONTROL NOTES**
- Contractor shall notify the Howard Soil Conservation District at least 24 hours before starting any work. (PH 455-3180).
 - All Sediment Control Features shall be constructed in accordance with the approved plans; sediment control features may be adjusted in the field. However, prior permission from Howard S.C.D. and Architect must be obtained.
 - Periodic inspection and maintenance of all sediment control structures and features must be provided in order to insure that the intended purpose is accomplished.
 - No temporary sedimentation measures are to be removed without permission by the Soil Conservation District and only just prior to stabilization of Tributary Areas.
 - All disturbed areas shall be stabilized immediately following fine grading.
 - Topsoil shall meet all applicable requirements of the Specifications for Materials, Highways, Bridges and Incidental Structures of the Maryland State Highway Administration.
 - Lime shall be spread at a rate of one (1) ton per acre.
 - Fertilizer 5-10-10 or equivalent shall be applied to the loosened seedbed and shall be taked smooth prior to seeding or sodding. Mixture for permanent seeding shall be 230 lbs. per acre of Kentucky 31 Tall Fescue and 20 lbs. per acre of Rye.
 - Immediately after seeding, the area shall be uniformly mulched at a rate of 3000 lbs./acre, anchored with 480 gal./acre of asphalt. Where swales have a grade steeper than 2% the mulch shall be overlaid with plastic or fiber netting stapled to the ground according to the manufacturer's recommendations.
 - Temporary Berms and dikes shall be compacted by several passes with the construction equipment. Berms and dikes shall be stabilized immediately by using the following rates: 1 ton of lime per acre, 500 lbs. of 5-10-10 fertilizer per acre, 1.5 tons of mulch and 40 lbs. of Rye grass per acre.
 - At slopes having a grade steeper than 3 to 1, 15 lbs./acre of inoculated crownvetch shall be added to the seed mixture shown above.

DESIGN CERTIFICATION
I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Date: Dec 16, 1974



DEVELOPER'S CERTIFICATION
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Date: 12/17/74

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

Reviewed for Howard S.C.D.
Name
and Meets Technical Requirements
Signature: James M. Adams 4-21-75
U. S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved: Don J. Adams Date: 4-21-75
Howard S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<u>James M. Adams</u>	4/20/75
COUNTY HEALTH OFFICER	DATE
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<u>James M. Adams</u>	5-1-75
PLANNING DIRECTOR	DATE
CHIEF DIVISION OF LAND DEVELOPMENT	
<u>James M. Adams</u>	5/1/75
TRANSPORTATION PLANNING	DATE
APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<u>William A. Adams</u>	4/21/75
DIRECTOR	DATE
<u>James M. Adams</u>	4/22/75
CHIEF BUREAU OF HIGHWAYS	DATE

COLUMBIA HOWARD COUNTY MARYLAND
ELECTION DISTRICT 7C
GRADING & SEDIMENT CONTROL PLAN NORTH
DASHER GREEN ELEMENTARY
OWEN BROWN MIDDLE SCHOOLS
 VILLAGE OF OWEN BROWN, SECTION 1, AREA 24, OPEN SPACE LOT 6.1.
PS-3
 SDP-75-58c

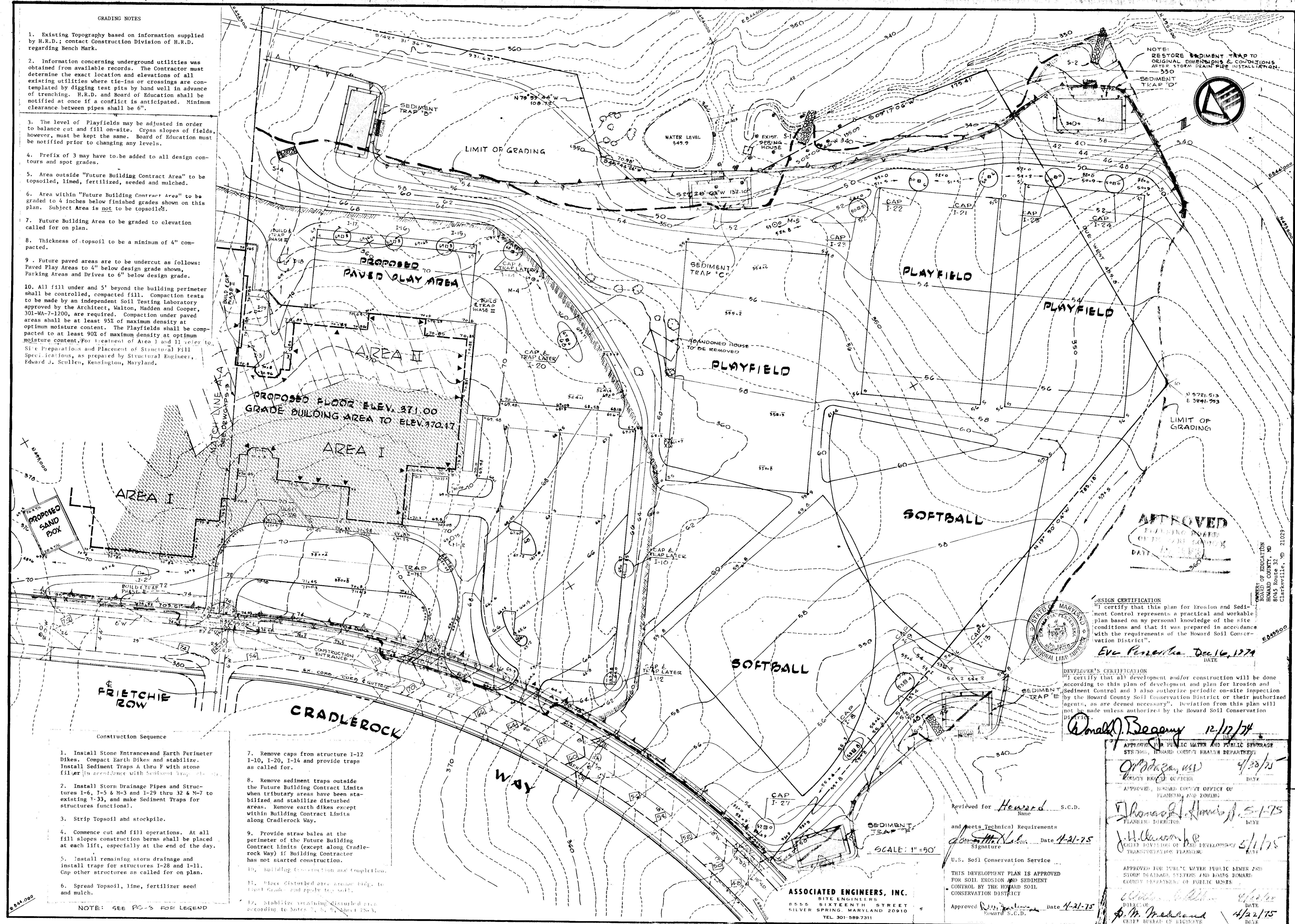
GRADING NOTES

- Existing Topography based on information supplied by H.R.D.; contact Construction Division of H.R.D. regarding Bench Mark.
- Information concerning underground utilities was obtained from available records. The Contractor must determine the exact location and elevations of all existing utilities where tie-ins or crossings are contemplated by digging test pits by hand well in advance of trenching. H.R.D. and Board of Education shall be notified at once if a conflict is anticipated. Minimum clearance between pipes shall be 6".
- The level of Playfields may be adjusted in order to balance cut and fill on-site. Cross slopes of fields, however, must be kept the same. Board of Education must be notified prior to changing any levels.
- Prefix of 3 may have to be added to all design contours and spot grades.
- Area outside "Future Building Contract Area" to be topsoiled, limed, fertilized, seeded and mulched.
- Area within "Future Building Contract Area" to be graded to 4 inches below finished grades shown on this plan. Subject Area is not to be topsoiled.
- Future Building Area to be graded to elevation called for on plan.
- Thickness of topsoil to be a minimum of 4" compacted.
- Future paved areas are to be undercut as follows: Paved Play Areas to 4" below design grade shown, Parking Areas and Drives to 6" below design grade.
- All fill under and 5' beyond the building perimeter shall be controlled, compacted fill. Compaction tests to be made by an independent Soil Testing Laboratory approved by the Architect, Walton, Madden and Cooper, 301-WA-7-1200, are required. Compaction under paved areas shall be at least 95% of maximum density at optimum moisture content. The Playfields shall be compacted to at least 90% of maximum density at optimum moisture content. For placement of Area I and II refer to Site Preparation and Placement of Structural Fill Specifications, as prepared by Structural Engineer, Edward J. Scullion, Kensington, Maryland.

Construction Sequence

- Install Stone Entrances and Earth Perimeter Dikes. Compact Earth Dikes and stabilize. Install Sediment Traps A thru F with stone fill in accordance with Sediment Trap details.
- Install Storm Drainage Pipes and Structures I-6, I-5 & M-3 and I-29 thru 32 & M-7 to existing I-33, and make Sediment Traps for structures functional.
- Strip Topsoil and stockpile.
- Commence cut and fill operations. At all fill slopes construction berms shall be placed at each lift, especially at the end of the day.
- Install remaining storm drainage and install traps for structures I-28 and I-11. Cap other structures as called for on plan.
- Spread Topsoil, lime, fertilizer seed and mulch.
- Remove caps from structure I-12, I-10, I-20, I-14 and provide traps as called for.
- Remove sediment traps outside the Future Building Contract Limits when tributary areas have been stabilized and stabilize disturbed areas. Remove earth dikes except within Building Contract Limits along Cradlerock Way.
- Provide straw bales at the perimeter of the Future Building Contract Limits (except along Cradlerock Way) if Building Contractor has not started construction.
- Building construction and completion.
- Place disturbed areas, grade berms to level grade and apply topsoil.
- Stabilize remaining disturbed areas according to Notes 2, 3, 5, 6 and PS-3.

NOTE: SEE PS-3 FOR LEGEND



NOTE: RESTORE SEDIMENT TRAP TO ORIGINAL DIMENSIONS & CONDITIONS AFTER STORM DRAIN RISE INSTALLATION.

APPROVED
FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 12/12/74

DESIGN CERTIFICATION
I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Eva Penner, Dec 16, 1974
DATE

DEVELOPER'S CERTIFICATION
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Ronald J. Begany, 12/12/74
DATE

Reviewed for Howard S.C.D. Name
and meets Technical Requirements
Signature Date 4-21-75
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved Date 4-21-75 Howard S.C.D.

ASSOCIATED ENGINEERS, INC.
5555 SIXTEENTH STREET
SILVER SPRING, MARYLAND 20910
TEL. 301-589-7311

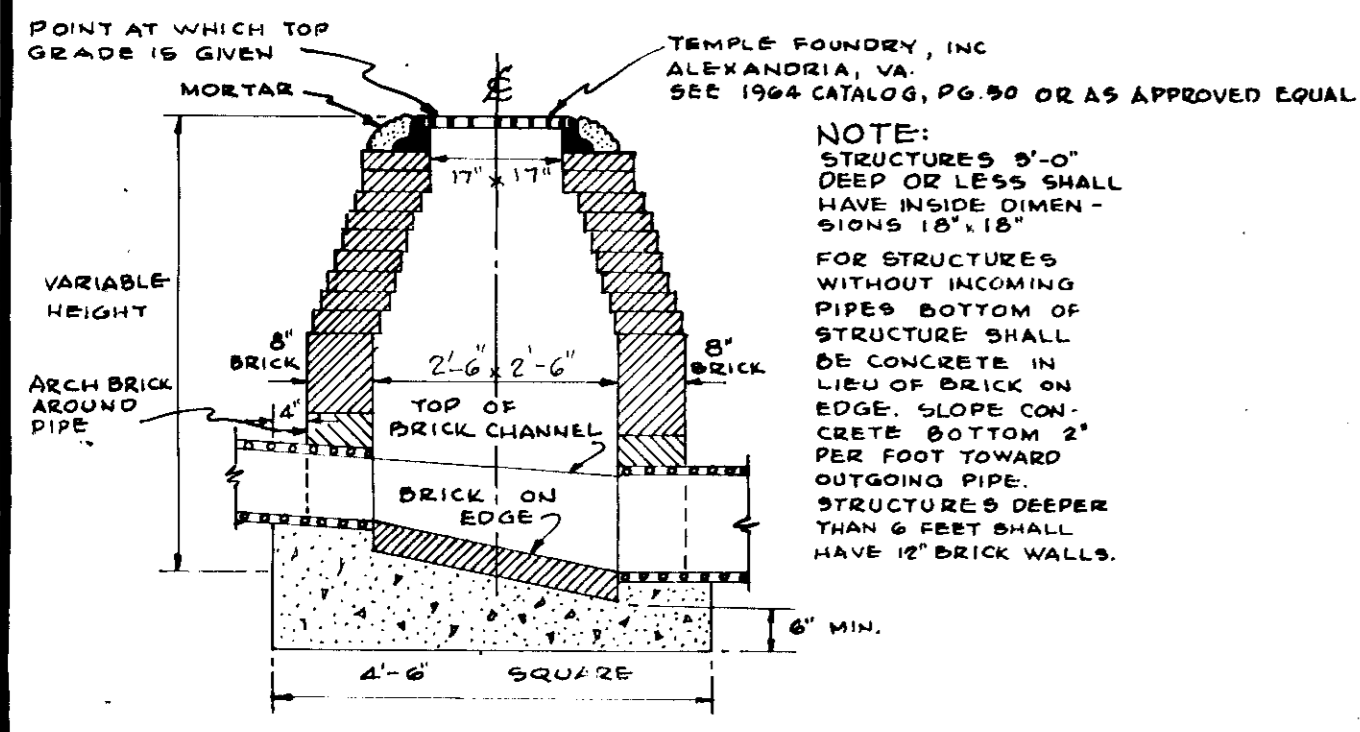
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 4/20/75
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
DATE: 5/1/75
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES
DATE: 4/22/75

COLUMBIA
HOWARD COUNTY
MARYLAND
ELECTION DISTRICT #6

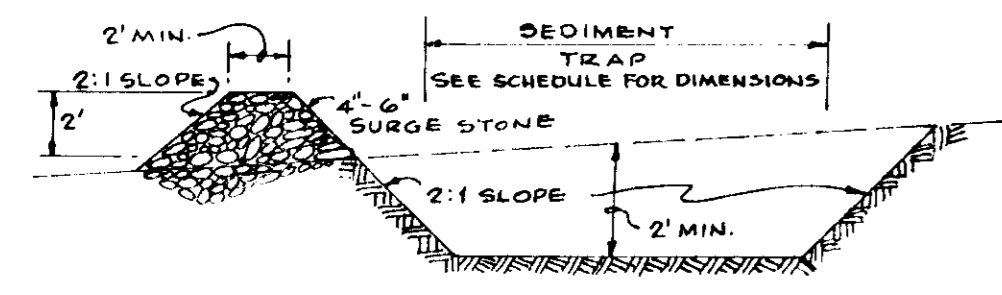
GRADING & SEDIMENT CONTROL PLAN SOUTH

DASHER GREEN ELEMENTARY
OWEN BROWN MIDDLE SCHOOLS
VILLAGE OF OWEN BROWN, SECTION 1, AREA 2, OPEN SPACE LOT 62.

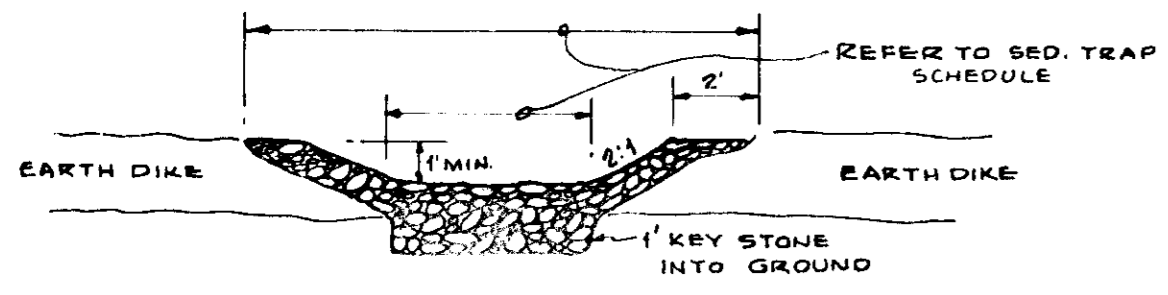
PS-4
SDP-75-58C



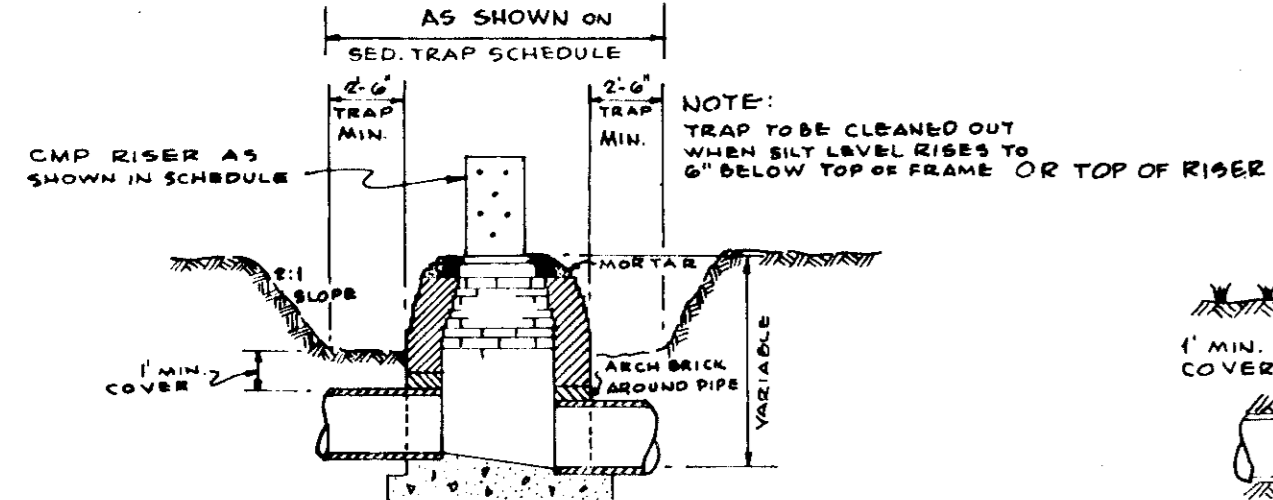
**SECTION
TYPICAL YARD DRAIN**
NOT TO SCALE



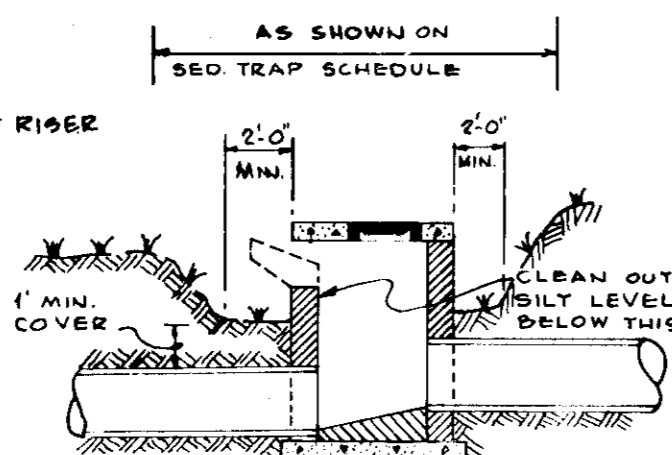
**TYPICAL SIDE VIEW
SEDIMENT TRAP**
NOT TO SCALE



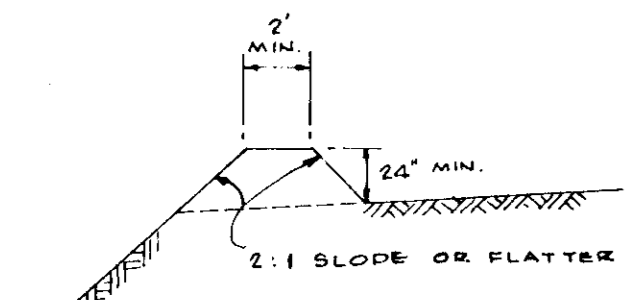
**TYPICAL FRONT VIEW
SILT TRAP-
STONE OUTFALL**
NOT TO SCALE



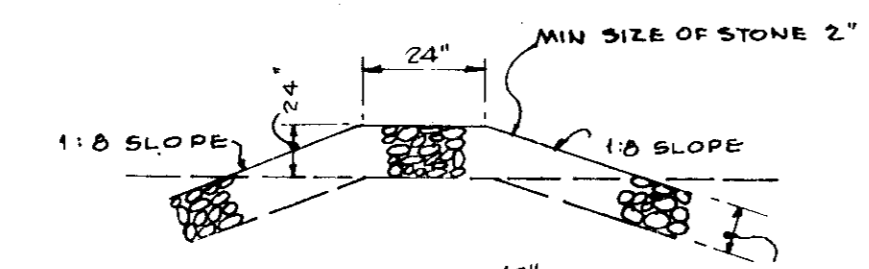
**TYPICAL SECTION
YARD DRAIN OR SILT INLET
W/ SILT TRAP**
NOT TO SCALE



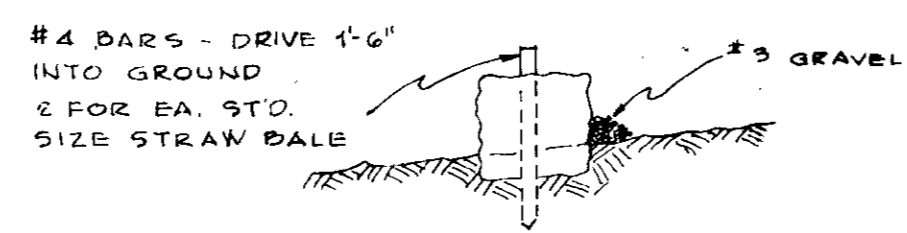
**SECTION A-A
TEMPORARY SILT TRAP FOR CURB INLETS**
TYPICAL
NOT TO SCALE



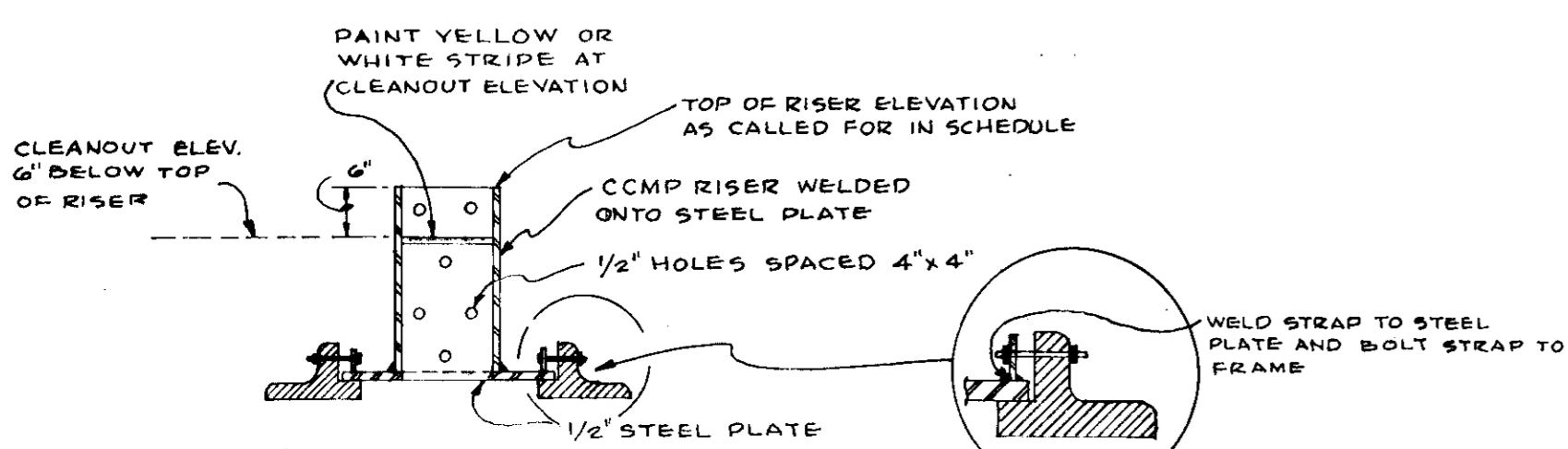
**TYPICAL SECTION
INTERCEPTOR DIKE
(TEMPORARY)**
NOT TO SCALE



**STONE INTERCEPTOR DIKE
AT ENTRANCE**
NOT TO SCALE

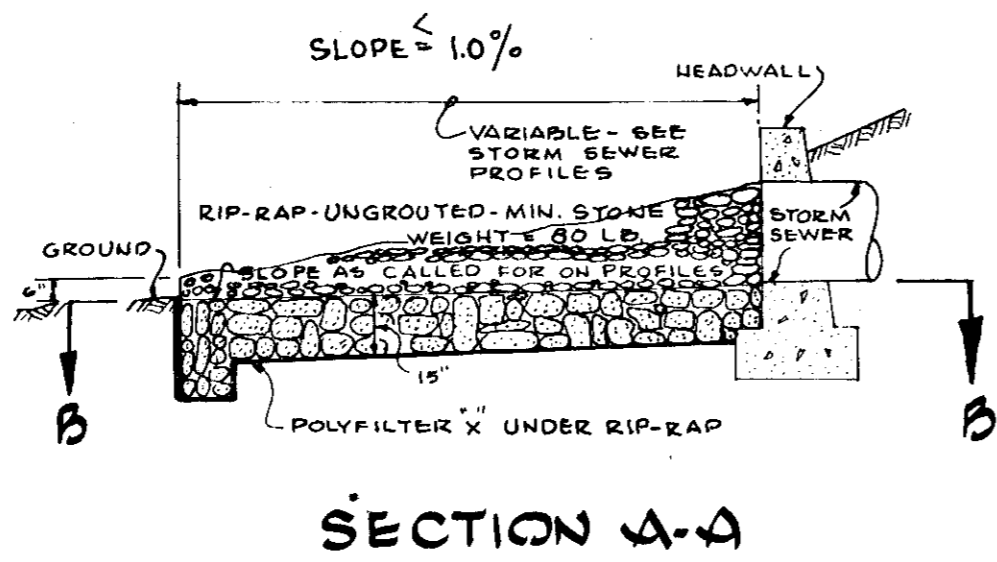


**SECTION
ANCHORING OF STRAW BALES
AT SILT BARRIER**
NOT TO SCALE

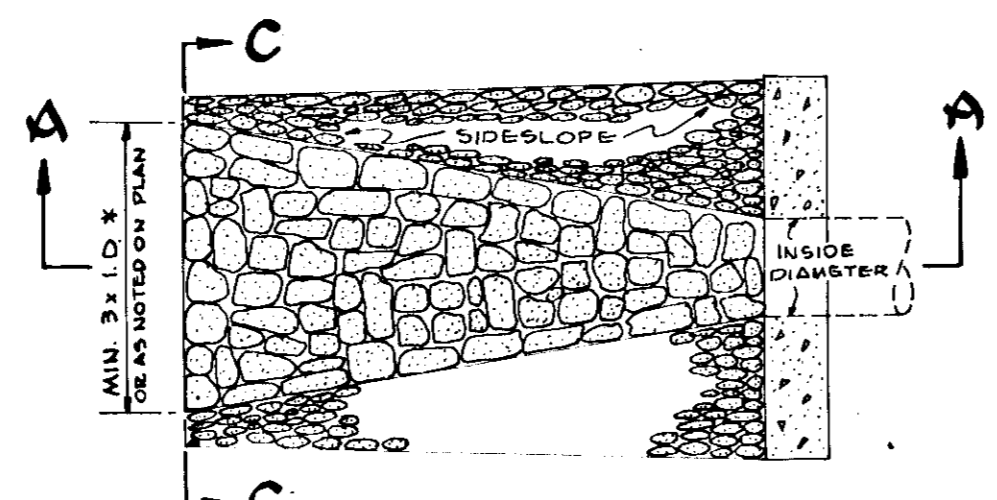


**DETAIL OF RISER
FOR SEDIMENT TRAP AT YARD
DRAIN OR CURB INLET**
NOT TO SCALE

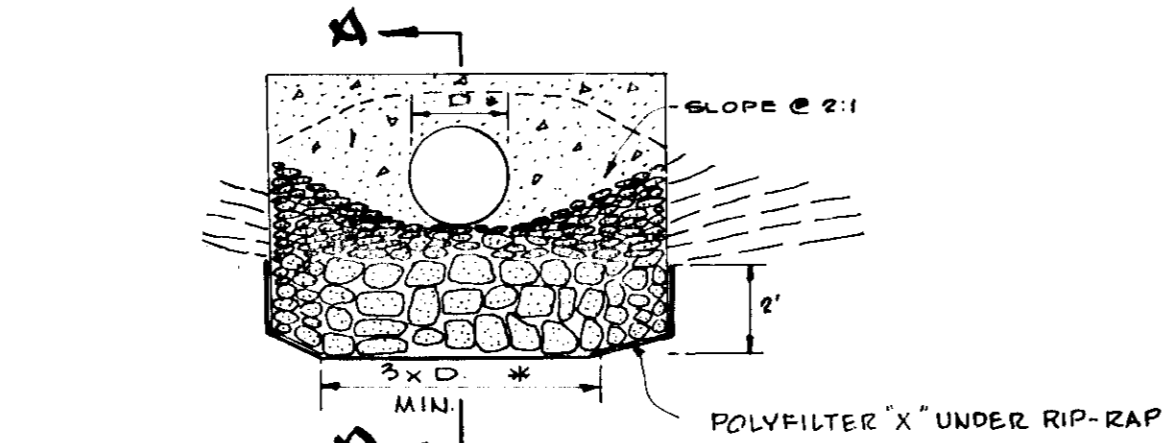
REFER TO NOTES 2 & 3 ON DWG PS-6



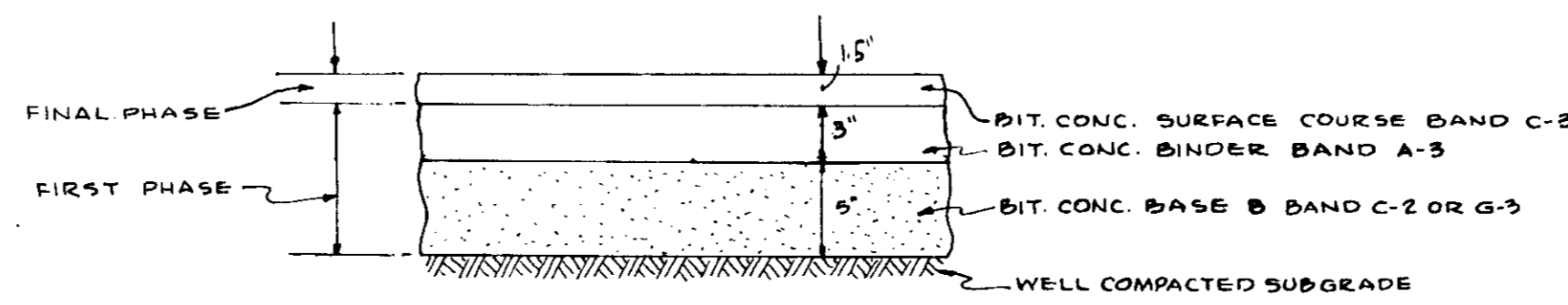
SECTION A-A



SECTION B-B

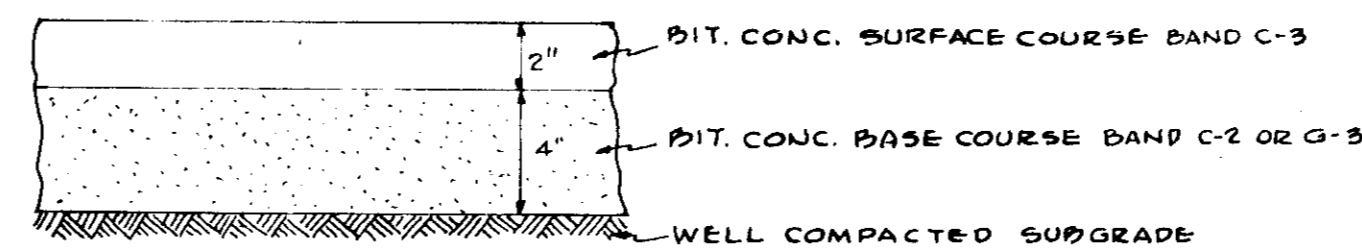


**SECTION C-C
* I.D. = INSIDE DIAMETER
TYPICAL
UNGRADED RIP-RAP DETAIL**
NOT TO SCALE

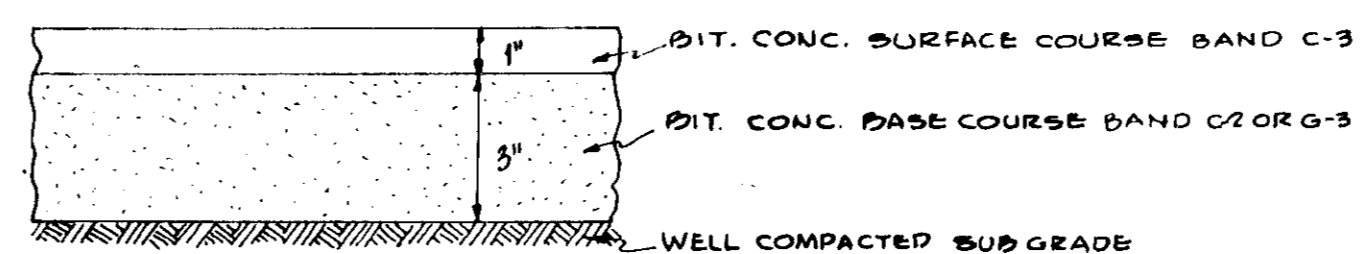


**PAVEMENT WITHIN R.O.W.
OF CRADLEROCK WAY**

(TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS, PG. 68)



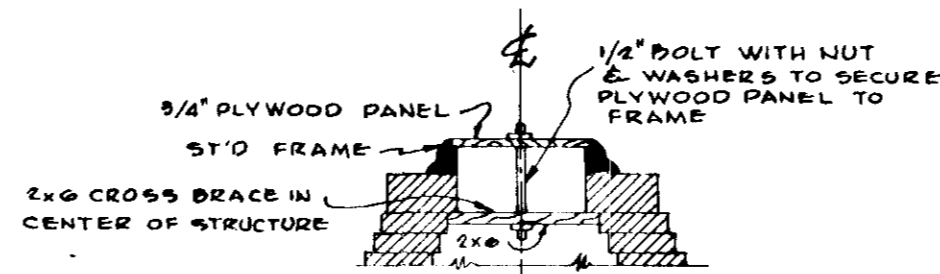
**PAVEMENT-ON SITE
DRIVES & PARKING LOTS**



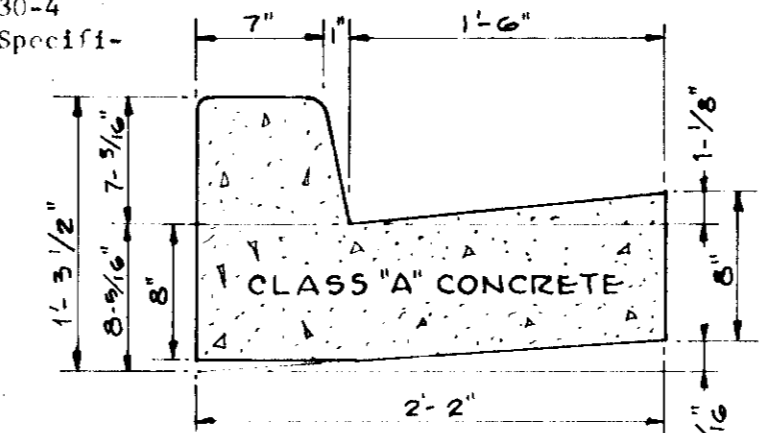
**PAVEMENT-ON SITE
PLAY AREAS**
NOT TO SCALE

PAVEMENT DETAILS

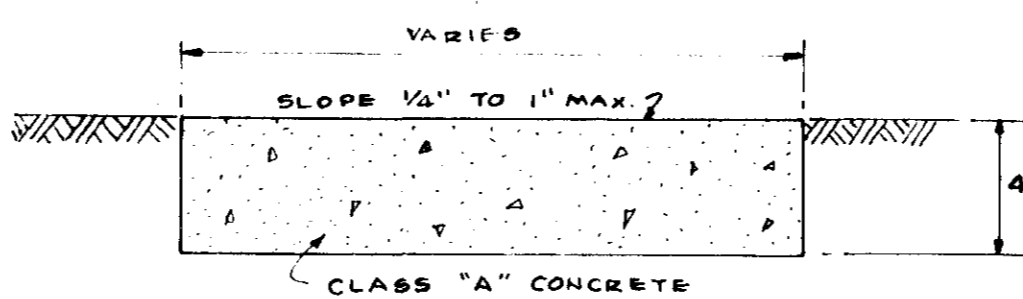
- NOTES:
1. Prime Coat is required in accordance with Section C-30-3 of Howard County Road Construction Code & Standard Specifications.
 2. Tack Coat is required in accordance with Section C-30-4 of Howard County Road Construction Code & Standard Specifications.



**INLET FRAME W/TEMPORARY
PLYWOOD TOP FOR SEDIMENT
CONTROL**
NOT TO SCALE

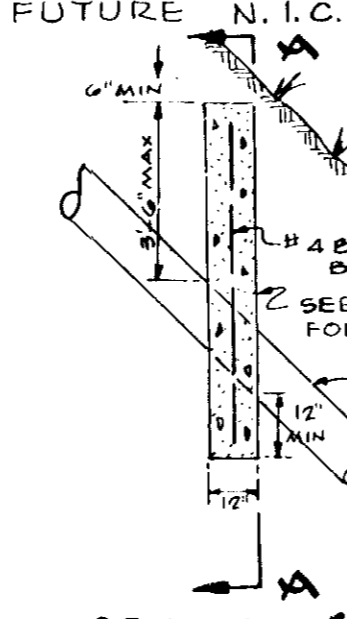


STAN. 7\"/>

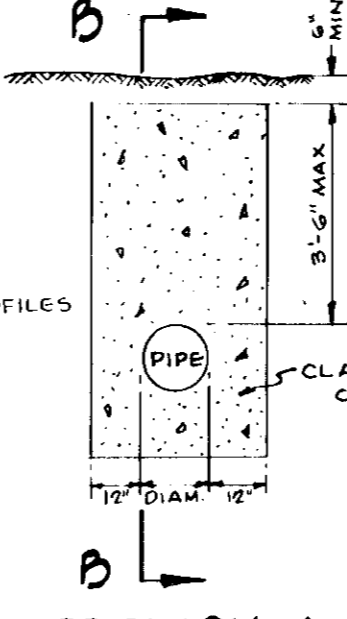


TYPICAL SIDEWALK SECTION

NOT TO SCALE
FUTURE N.I.C.



**SECTION B-B
PIPE ANCHOR**
NOT TO SCALE



SECTION A-A

DESIGN CERTIFICATION

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District, as amended, and as amended necessary." Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Reviewed for Howard S.C.D. Name

and meets Technical Requirements
Signature [Signature] Date 4-21-75
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved [Signature] Date 4-21-75
Howard S.C.D.

STRUCTURE TABLE

NO.	TYPE	TOP ELEV.	INV. OUT.	REMARKS
S-1	F-ENDWALL	---	338.30	STD. TYPE DETAIL STD. DETAIL D-52
S-2	F-ENDWALL	---	327.50	W/STD. PIPE RAILING MOD. DETAIL D-52
S-3	C-ENDWALL	---	343.25	STD. TYPE D-30" PIPE RAILING MOD. DETAIL D-52
S-4	C-ENDWALL	---	360.40	STD. TYPE D-18" W/STD. PIPE RAILING MOD. DETAIL D-52
M-1	B-MANHOLE	384.50	381.27	STD. DETAIL SDD-9
M-2	B-MANHOLE	369.75	361.16	" " " " " "
M-3	A-1-MANHOLE	364.00	355.72	STD. DETAIL SDD-7
M-4	DROP MANHOLE	369.40	357.50	STD. DETAIL D-104
M-5	B-MANHOLE	359.00	341.82	STD. DETAIL SDD-9
M-6	B-MANHOLE	369.00	362.09	" " " " " "
M-7	B-MANHOLE	374.20	368.90	" " " " " "
I-1	YARD DRAIN	366.40	358.18	AS DETAILED
I-2	"	369.00	365.20	" " " " " "
I-3	YARD DRAIN	370.20	366.92	" " " " " "
I-4	"	368.00	365.12	" " " " " "
I-5	"	367.50	362.98	" " " " " "
I-6	"	368.00	364.30	" " " " " "
I-7	"	371.0	368.40	" " " " " "
I-8	"	359.8	350.10	" " " " " "
I-9	"	353.40	343.87	" " " " " "
I-10	B-1 INLET	365.85	358.06	STD. DETAIL SDD-31
I-11	A-1 INLET	368.60	365.75	MOD. DETAIL SDD-29
I-12	B-1 INLET	364.00	360.10	STD. DETAIL SDD-31
I-13	O INLET	354.05 UP 333.20	350.50	STD. DETAIL SDD-84 OPENINGS ON E&W SIDES
I-14	YARD DRAIN	368.30	362.55	AS DETAILED
I-15	YARD DRAIN	369.30	363.29	" " " " " "
I-16	"	369.30	363.73	" " " " " "
I-17	"	369.30	365.79	" " " " " "
I-18	"	369.30	366.29	" " " " " "
I-19	"	370.20	366.68	" " " " " "
I-20	"	367.60	364.90	" " " " " "
I-21	"	350.60	345.54	" " " " " "
I-22	"	350.60	346.75	" " " " " "
I-23	S INLET	350.50	347.00	STD. DETAIL SDD-43
I-24	"	350.00	347.30	" " " " " "
I-25	YARD DRAIN	350.00	343.84	AS DETAILED
I-26	S INLET	368.00	364.66	STD. DETAIL SDD-43
I-27	S INLET	352.00	344.30	STD. DETAIL SDD-43
I-28	A-1 INLET	369.48	363.72	STD. DETAIL SDD-29
I-29	YARD DRAIN	373.10	370.20	AS DETAILED
I-30	"	373.10	369.30	" " " " " "
I-31	"	373.10	369.75	" " " " " "
I-32	"	373.10	370.20	" " " " " "
I-33	EXIST. INLET	366.33	---	INV. REFERRED TO SEE SCHEDULE. CONNECT NEW PIPE TO EX. INLET, RE-SURFACE AND REPAIR STRUCTURE AS NECESSARY.

D - REFERS TO HOWARD CO. ROAD CONSTRUCTION CODE & STANDARD SPECIFICATION
SDD - REFERS TO DEPARTMENT OF PUBLIC WORKS DESIGN MANUAL

1. ALL EXPOSED PORTIONS OF FRAMES, GRATES AND CHANNELS SHALL RECEIVE 2 COATS OF AN APPROVED PAINT.
2. WALL THICKNESS OF STRUCTURES IN EXCESS OF 6' DEPTH SHALL BE INCREASED TO 12".
3. PROVIDE STEEL OR CAST IRON MANHOLE STEPS, STAGGERED AT 15" O. C. FOR ALL STRUCTURES DEEPER THAN 3 FEET.
4. PROVIDE STD. PIPE RAILING ON ENDWALLS S-2, AND S-4 MSHA STD. MD. 436.01 MODIFY SPACING OF POSTS TO 4'-0" O.C.

OWNER: EDUCATION BOARD
HOWARD COUNTY, MD.
8045 ROUTE 17
CLARKSVILLE, MD. 21029

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

[Signature] COUNTY HEALTH OFFICER DATE 4/30/75

APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] PLANNING DIRECTOR DATE 5-1-75

[Signature] CHIEF DIVISION OF LAND DEVELOPMENT DATE 5/1/75
TRANSFORMATION PLANNING

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

[Signature] DIRECTOR DATE 4/22/75

[Signature] CHIEF BUREAU OF HIGHWAYS DATE 4/22/75

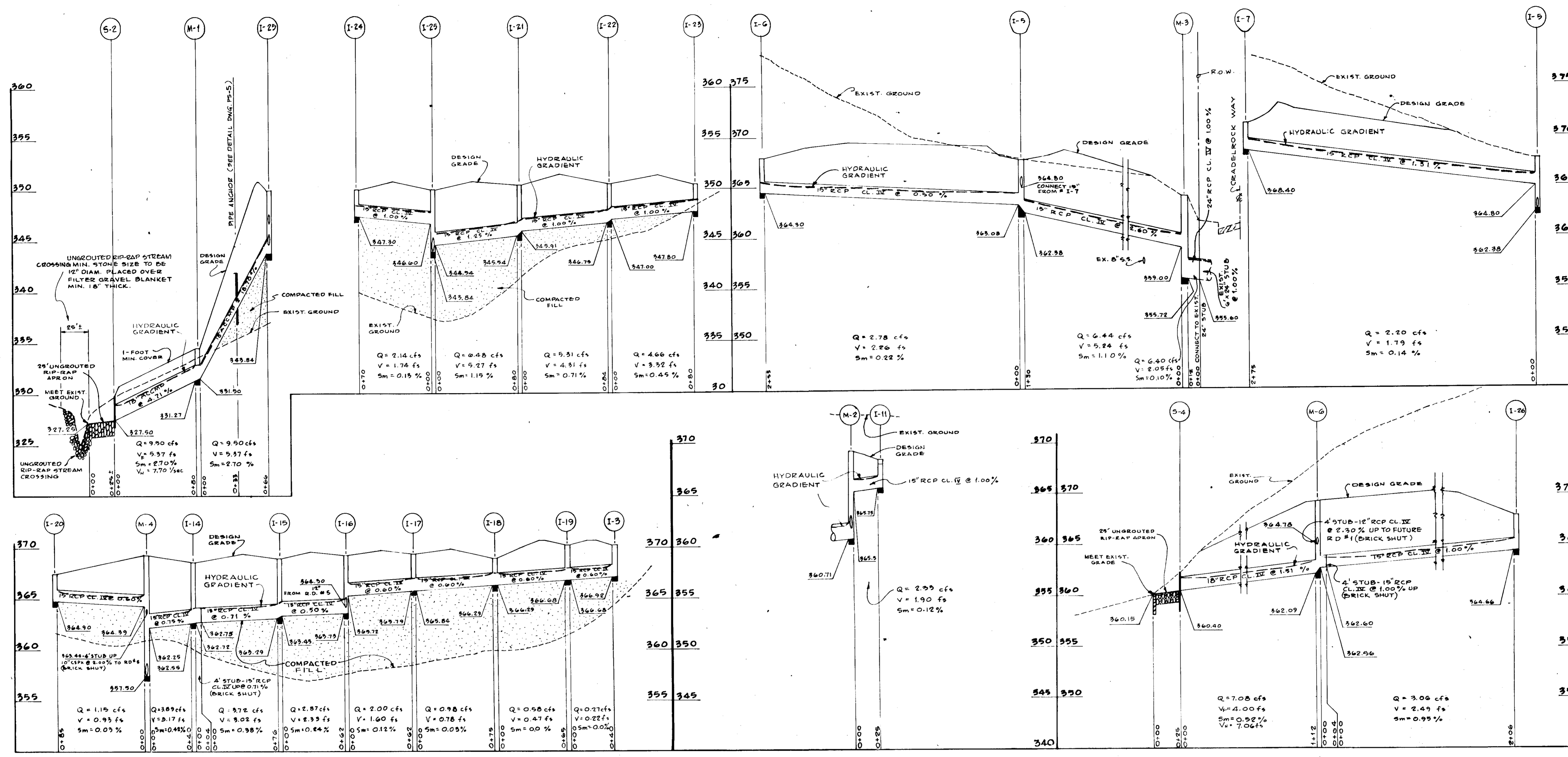
COLUMBIA
HOWARD COUNTY
MARYLAND
ELECTION DISTRICT # 6

SITE DETAILS
& STRUCTURE
TABLE

DASHER GREEN ELEMENTARY
OWEN BROWN MIDDLE SCHOOLS
VILLAGE OF OWEN BROWN, SECTION 1, AREA 2, OPEN SPACE LOT 62.

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SDD-75-58c



SEDIMENT TRAP SCHEDULE

No.	Area Tributary Acres	Capacity Cu. Yds.	Trap Dimensions			Stone Filter		Remarks	TOP OF RISER ELEV.
			Length Ft.	Width Ft.	Depth Ft.	Width of Weir	Total With Plus Protection each side		
A	3.1	207.7	70	30	2.7	8'	16'	-	-
B	4.3	288.1	80	32.5	3.0	12'	20'	-	-
C	3.8	254.6	70	35	2.8	8'	16'	-	-
D	4.9	328.3	80	40	2.8	12'	20'	-	-
E	3.9	261.3	55	40	3.2	8'	16'	-	-
F	2.6	174.2	60	30	2.6	8'	16'	-	-
I-4	1.4	93.8	36	36	2	-	-	-	-
I-6	1.3	90.0	45	45	1.2	-	-	-	-
I-10	0.9	60.3	26	26	2.5	-	-	-	-
I-11	0.4	26.8	27	27	1	-	-	See Note Nos. 2 & 3	369.4
I-12	1.1	73.7	25	25	1.2	-	-	-	-
I-14	0.2	13.4	15	15	1.6	-	-	-	-
I-20	0.6	40.2	27	27	1.5	-	-	See Note Nos. 2 & 3	368.4
I-30	0.7	46.9	32	32	1.3	-	-	See Note Nos. 2 & 3	373.6
I-32	0.5	33.5	30	30	1.0	-	-	-	-
I-78	1.7	80.4	33	33	2.0	-	-	-	-

HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 5'

- NOTES:
- Capacity of Traps based on 67 cu. yds./acre of disturbed tributary area.
 - Temporarily replace inlet grate by a section of CCMP riser pipe with 1/2" holes spaced 4" both ways, welded on a 1/2" steel plate securely fastened to inlet frame. Top elevations of risers shall be at least equal to the minimum surrounding ground elevations of trap (See plan).
 - Clean-out elevation shall be 6" below top of riser and this section shall be painted white or yellow.
 - Curb inlet shall have inlet throat temporarily shut and CCMP riser located in place of manhole cover.
 - Maintain 1' min. cover on S.D. pipes in all cases.



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

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 4/21/75

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature: John H. Hahn Date: 4-21-75
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved: Ray J. Johnson Date: 4-21-75
Howard S.C.D.

LEGEND
ACCPM = ASPHALT COATED CORRUGATED METAL PIPE, GAGE 16
RCP = REINFORCED CONCRETE PIPE
CCSPX = CONCRETE SEWER PIPE EXTRA STRENGTH
FC = FIELD CONNECTION, STD. DETAIL - STD-50 (DEPT. OF PUBLIC WORKS DESIGN MANUAL)

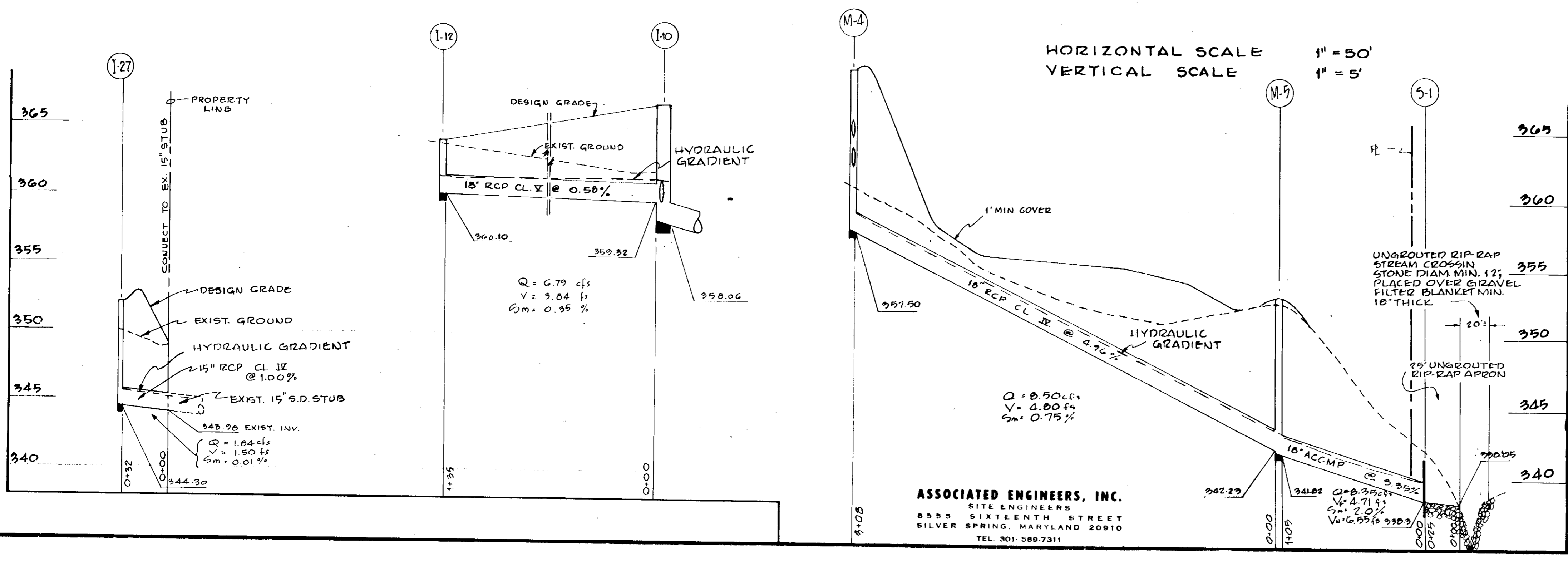
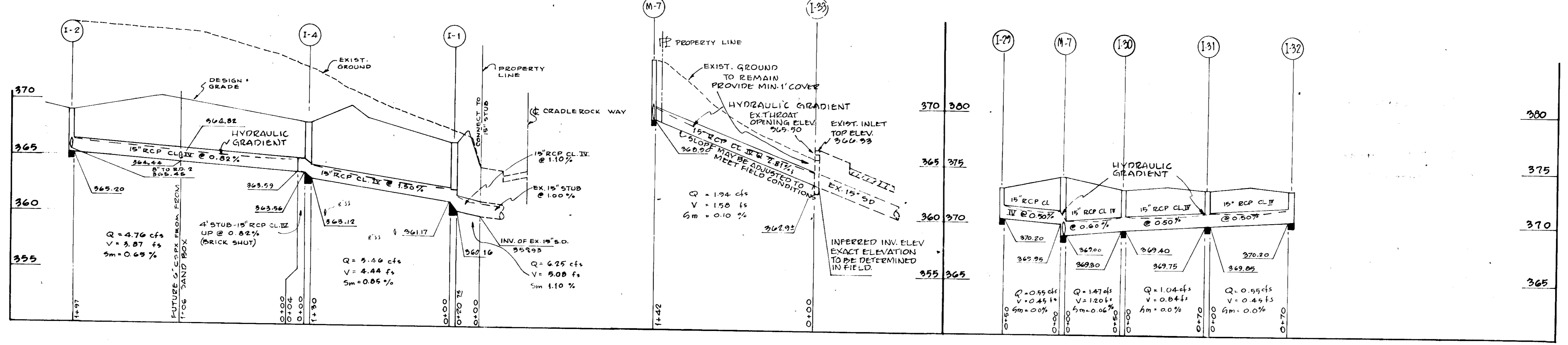
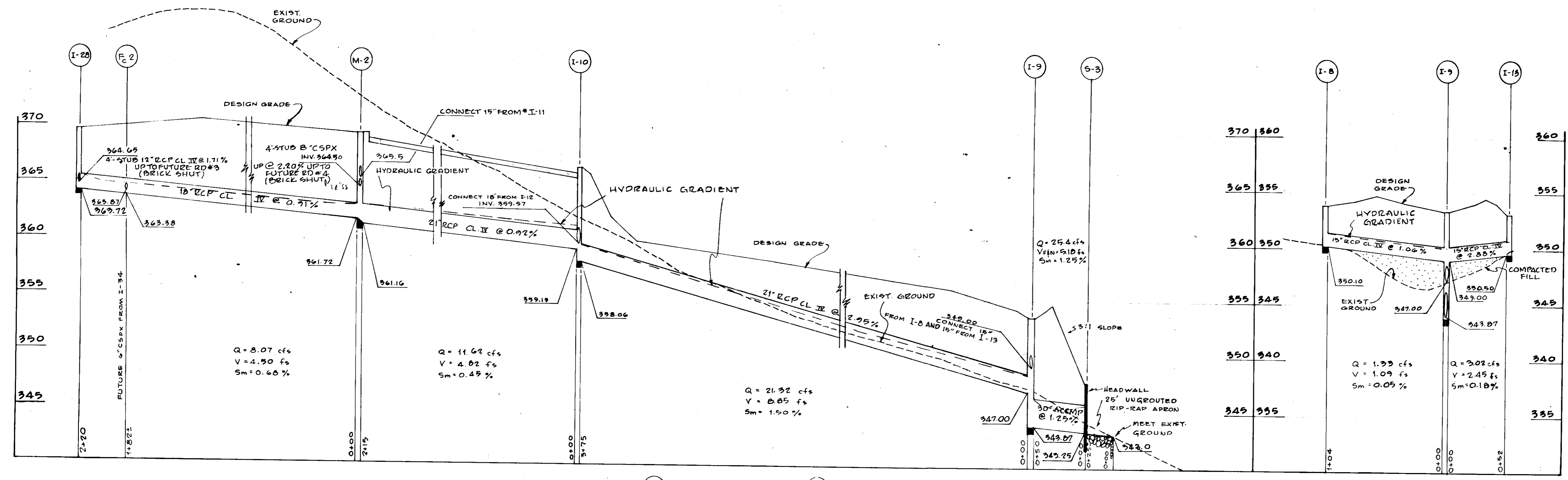
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

Signature: John J. ... DATE: 4/30/75
COUNTY HEALTH OFFICER

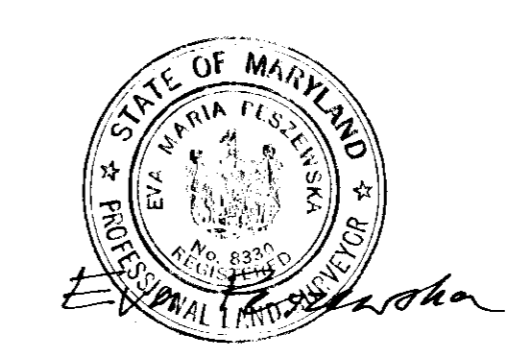
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Signature: Thomas J. ... DATE: 5-7-75
PLANNING DIRECTOR

Signature: J. H. ... DATE: 5/1/75
CHIEF DIVISION OF LAND DEVELOPMENT TRANSPORTATION PLANNING

APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: William J. ... DATE: 4/22/75
DIRECTOR
Signature: P. M. ... DATE: 4/22/75
CHIEF BUREAU OF HIGHWAYS



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



Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Approved
Signature
Date

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT Signature DATE	APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING Signature DATE
APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Signature DATE	APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Signature DATE

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