

GENERAL NOTES

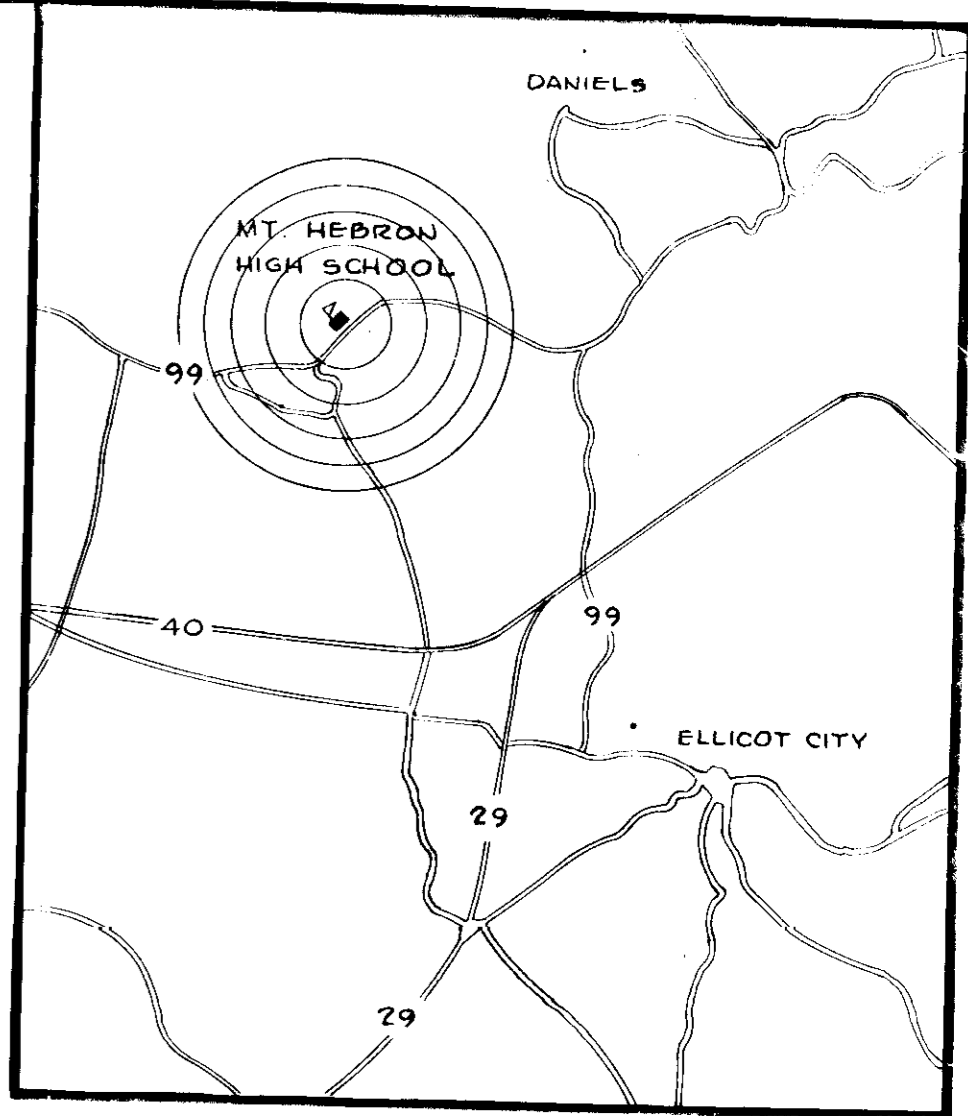
- FOR BUILDING DIMENSIONS AND ADDITIONAL DETAILS REFER TO ARCHITECTURAL DRAWINGS. DIMENSIONS FOR PAVING ARE GIVEN TO FACE OF CURB.
- FOR SANITARY SEWER, WATER, AND ROOF DRAINS REFER TO MECHANICAL PLANS.
- FOR ALL ELECTRICAL WORK REFER TO ELECTRICAL PLANS.
- THE FOLLOWING AREAS SHALL BE TOPSOILED, FERTILIZED, LIMED SOILED AND MULCHED: (1) ALL UNPAVED AREAS WITHIN THE LIMIT OF GRADING UNLESS SHOWN AS SOILED; (2) ALL AREAS OUTSIDE THE LIMIT OF GRADING DISTURBED BY THE CONTRACTOR.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE, AND APPLICABLE PROVISIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES AND INCIDENTAL STRUCTURES.
- ALL EXISTING UTILITIES ARE BASED ON AVAILABLE RECORDS AND WERE FIELD-CHECKED WHERE POSSIBLE. CONTRACTOR MUST DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION AND DEPTHS. ALL UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION. IF A CONFLICT IS INDICATED, ARCHITECT SHALL BE NOTIFIED BEFORE PROCEEDING WITH CONSTRUCTION.
- ALL EXPOSED PORTIONS OF FRAMES, GRATES AND CURVES OF STORM DRAINAGE STRUCTURES SHALL BE PAINTED WITH TWO COATS OF AN APPROVED PAINT.
- ALL STRUCTURES HAVING A DEPTH OF 3 FEET OR MORE SHALL HAVE C.G. MANHOLE STEPS, SPACED AT 18" O.C.
- STANDARD CURBS AND GUTTERS TO BE HOWARD COUNTY STANDARD 7" COMBINATION CURB AND GUTTER AS SHOWN IN DRAWING H-60, PAGE 9 OF THE COUNTY STANDARDS.
- CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION.
- EXISTING TOPOGRAPHY IS BASED ON AERIAL SURVEY PREPARED DURING THE FALL OF 1974 BY PHOTO SCIENCE, GAITHERSBURG, MD. GROUND CONTOURS AND TOPOGRAPHIC DETAILS BY ASSOCIATED ENGINEERS, INC., SILVER SPRING, MD. BE ON MARK USED: 1ST FLOOR ELEVATION AT ENTRANCE TO MAIN SCHOOL BUILDING, ELEV. 48.20. FOR LOCATION SEE DRAWING G-2.
- PIVOT CENTER OF CURBS TO CONFORM TO ADJACENT DRAINAGE PATTERN.
- CONTRACTOR SHALL PROVIDE ALL SUITABLE FILL MATERIAL IN ORDER TO GRADE SITE TO THE ELEVATIONS SHOWN. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE. LOCATION OF BORROW PITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL OBTAIN PERMIT FOR SOURCE AND QUALITY OF BORROW FILL MATERIAL FROM THE DIVISION OF INSPECTIONS, PERMITS AND LICENSES, HOWARD CO., MD. (PH. 301-461-5000 EXT. 296). PREFIX OF 4 MAY HAVE TO BE ADDED TO ALL DESIGN CONTOURS AND SPOT GRADS.
- THICKNESS OF TOPSOIL SHALL BE 4 INCHES (COMPACTED).

- GENERAL NOTES (CONTINUED)
- HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED FOR PAVING INSPECTION.
  - ALL FILL UNDER PAVES AND CONCRETE DITCHES SHALL BE COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT.

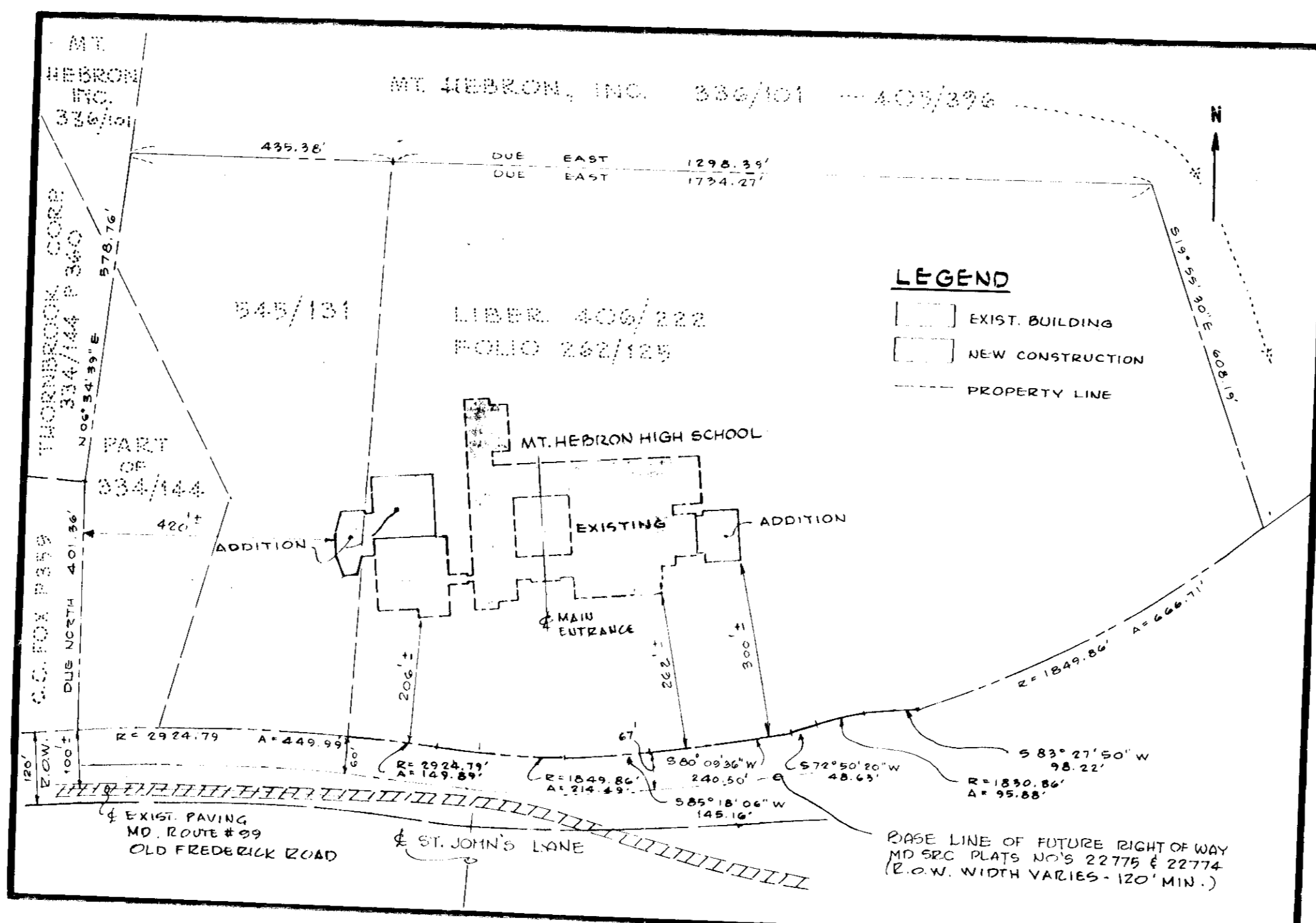
CONSTRUCTION SEQUENCE

- INSTALL STONE ENTRANCE DIKES AND STRIP HALF SIEVE BARRIERS.
  - CONSTRUCT EARLY PERIMETER DIKES USING TOPSOIL; STABILIZE IN ACCORDANCE WITH SEDIMENT CONTROL NOTE #11.
  - INSTALL SEDIMENT TRAP "A" AND PROVIDE A 4" HIGH TEMPORARY FENCE.
  - CLEAR AND GRUB AREA TO BE DISTURBED, STRIP AND STOCKPILE TOPSOIL.
  - ROUGH GRADE SITE TO DESIRED SUBGRADE ELEVATIONS. REFER TO GENERAL NOTE #1.
  - INSTALL STORM DRAIN SYSTEM AND TRAP OR GAP STRUCTURES, EXCEPT CONCRETE OUTFALL DITCH.
  - START BUILDING CONSTRUCTION.
  - START CURB AND GUTTER CONSTRUCTION AND INSTALL BASE COURSE OF PAVING FOR PAVED AREAS.
  - STABILIZE PLAYFIELDS, SLOPES, AND OTHER AREAS TO BE SEEDED OR SOILED.
  - REMOVE DILET TRAPS AND GAPS OF STORM DRAINAGE STRUCTURES AND MAKE INLETS OPERABLE AFTER DISTURBED TRIJUTARY AREAS ARE STABILIZED.
  - REMOVE EARTH DIKE AND SEDIMENT TRAP "A" AND STABILIZE REMAINING DISTURBED AREA.
  - CONSTRUCT CONCRETE OUTFALL DITCH.
  - FINISH BUILDING CONSTRUCTION, APPLY SURFACE COURSE AND STABILIZE REMAINING DISTURBED AREAS.
  - CLEAN UP SITE AND START MAINTENANCE.
- TRAP "B" UNDER ALTERNATE GRADING.  
PLAYFIELD OMITTED UNDER ALTERNATE GRADING.

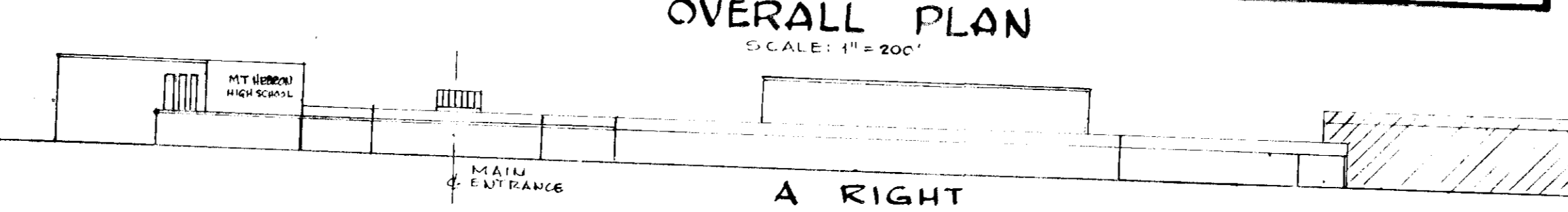
- SEDIMENT CONTROL NOTES
- CONTRACTOR SHALL NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AT LEAST 24 HOURS BEFORE STARTING ANY WORK. (PH 461-1800).
  - ALL SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. SEDIMENT CONTROL FEATURES MAY BE ADJUSTED IN THE FIELD, HOWEVER, PRIOR PERMISSION FROM HOWARD S.C.D. AND APPROVED TESTS 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 TRIJUTARY 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 10-10-10 OR EQUIVALENT SHALL BE APPLIED AT A RATE OF 1700 LBS. PER ACRE. BOTH LIME AND FERTILIZER SHALL BE UNIFORMLY APPLIED TO THE LOOSE-FIND SEEDBED AND SHALL BE RAKED SMOOTH PRIOR TO SEEDING OR SOILING. 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. PER ACRE, ANCHORED WITH 400 GAL. ACRES OF AGRIALTY. SWALES HAVING A GRADE STEEPER THAN 2% TO 10% SHALL BE OVERLAIN WITH PLASTIC OR OTHER NETTING SAUNDED TO THE GROUND ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
  - FOR SOILED AREAS THE SOD SHALL BE LAYED TO A TIGHT FIT AND ROLLED IN ORDER TO KNYT TO THE SOIL. SOILED AREAS SHALL BE COVERED FOR UP TO 2 WEEKS, TO ENSURE ROOTING TO THE SOIL BELOW. ALL SLOPES 3 TO 1 AND STEEPER SHALL BE SOILED AND PEGGED.
  - TEMPORARY BERMES AND DIKES SHALL BE STABILIZED IMMEDIATELY BY USING THE FOLLOWING RATES: 1 TON OF LIME PER ACRE, 50 LBS. OF 10-10-10 FERTILIZER PER ACRE, 1.5 TONS OF MULCH AND 5 LBS. OF RYE GRASS PER ACRE.



TRAP	TRIB. AREA ACRES	REQ. D CAPS C. YDS.	SEDIMENT TRAP SCHEDULE			ACTUAL CAP. CU. YDS.	WEIR, OUTFALLS	
			W.	H.	D.		WEIR WIDTH FT.	OVERALL OUTFALL WIDTH FT.
A	6.9	462.3	32	70	4	462.0	20	28
I-1	1.2	80.4	22	22	3	87.1	-	-
I-2	1.1	75.7	20	20	3	75.1	-	-
I-3	1.6	107.2	22	30	3	112.0	-	-
I-7	0.6	42.9	15	15	3	49.0	-	-
I-8	0.7	46.9	15	15	3	49.0	-	-
I-10a	0.8	53.6	13	20	3	55.0	-	-
I-10b	0.8	53.6	13	20	3	55.0	-	-
B	0.76	50.92	15	15	3	59.0	5	13
I-9	0.68	45.56	14	14	3	48.44	-	-
I-12	0.67	44.89	10	18	3	46.67	-	-



- LEGEND
- EXISTING CONTOUR
  - DESIGN CONTOUR (ADD PREFIX OF 4)
  - EXISTING SPOT GRADE
  - DESIGN SPOT GRADE (ADD PREFIX OF 4)
  - EXISTING BUILDING OUTLINE
  - PROPOSED BUILDING OUTLINE
  - PROPERTY LINE
  - EXISTING PAVING
  - EXISTING FENCE LINE
  - EXISTING UTILITY POLE
  - EXISTING STORM DRAIN PIPE AND STRUCTURES
  - NEW CONCRETE CURB AND GUTTER
  - NEW BITUMINOUS PAVING (HEAVY DUTY)
  - NEW CONCRETE WALKS, SLABS OR SWALES
  - ROOF DRAINS (SEE MECH. DRAWINGS)
  - NEW STORM SEWER INLETS
  - NEW STORM SEWER MANHOLE
  - RIP-RAP
  - INLET WITH TEMP. STEEL TRAP
  - TEMP. SEDIMENT TRAP WITH STONE OUTFALL
  - INLET TO BE CAPPED
  - TEMP. EARTH INTERCEPTOR DIKE
  - LIMIT OF GRADING
  - AREA TO BE SOILED
  - TEMPORARY CONSTRUCTION FENCE



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

Approved: *R.W. Zickm* Date 8/17/75

REVIEWED FOR HOWARD COUNTY: *C. Nagel* Date 8-18-75

REQUIRED CAPACITY BASED ON 67 CU. YDS. REQUIRED VOLUME PER DISTURBED ACRE.

LENGTH AND WIDTH DIMENSIONS ARE AT BASE OF TRAP.

SEE ALSO SEDIMENT TRAP ON SEDIMENT CONTROL PLAN AND APPLICABLE DETAILS IN THIS CONTRACT.

NOTE: REFER TO CONSTRUCTION SEQUENCE.

SITE INFORMATION

OWNER: BOARD OF EDUCATION OF HOWARD COUNTY  
ADDRESS: ROUTE #32 CLARKSVILLE, MD. 21029 TELEPHONE 301-531-1446

LOCATION: ROUTE #99 AND ST. JOHN'S LANE

ELECTION DISTRICT: #7  
TAX MAP: 1  
PARCEL #: 1  
AREA OF PROPERTY: 40.0 ACRES  
ZONING: R-20  
PROPERTY RECORDED IN LIBER: 406/545/334, FOLIO: 277 131 174

AREA OF BUILDING: 0.50 AC.  
AREA OF PAVEMENT: 0.05 AC.  
AREA SOILED: 1.76 AC.  
AREA SEEDING: 4.95 AC.  
AREA UNDISTURBED: 33.44 AC.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE BY THE BOARD OF PUBLIC UTILITIES:

*J.P. McNeil* 8/17/75

APPROVED FOR THE BOARD OF EDUCATION OF HOWARD COUNTY, MARYLAND BY M. THOMAS GOEDERKE SUPERINTENDENT OF SCHOOLS:

*M. Thomas Goedeker* 8/17/75

- COMPLETE SET OF SITE DEVELOPMENT DRAWINGS CONSISTS OF THE FOLLOWING:
- G-0 COVER SHEET
  - G-1 SITE & SEDIMENT CONTROL PLAN - AUDITORIUM ADDITION
  - G-2 SITE & SEDIMENT CONTROL PLAN - GYMNASIUM ADDITION
  - G-3 DETAILS
  - G-4 STORM SEWER PROFILES
  - D-1 DRAINAGE DIVIDES - AUDITORIUM ADDITION
  - D-2 STORM DRAINAGE COMPUTATIONS
- CONTRACT DRAWINGS
- SUPPORTING DESIGN DOCUMENTS

NOTE: FOR ALTERNATE GRADING PLAN SEE DRAWING G-3

SDP-75-106

JOHANNES & MURRAY & ASSOCIATES  
REGISTERED PROFESSIONAL ARCHITECTS  
1000 PINE DRIVE, SILVER SPRING, MD 20910  
JAMES B. MULLIVAN, JR. ARCHITECT  
W. L. LUTZ ARCHITECT  
HARRY S. FULLER ARCHITECT  
APPROVED FOR THE BOARD OF EDUCATION OF HOWARD COUNTY, MARYLAND BY M. THOMAS GOEDERKE SUPERINTENDENT OF SCHOOLS

MOUNT HEBRON HIGH SCHOOL  
MD. RTE. NO. 99 ROGERS AVE. TO ST. JOHN'S LANE  
FOR THE BOARD OF EDUCATION OF HOWARD COUNTY, MARYLAND BY M. THOMAS GOEDERKE SUPERINTENDENT OF SCHOOLS

DATE: 8/17/75  
SHEET NO. 682 OF 6  
5-1-75

COVER SHEET

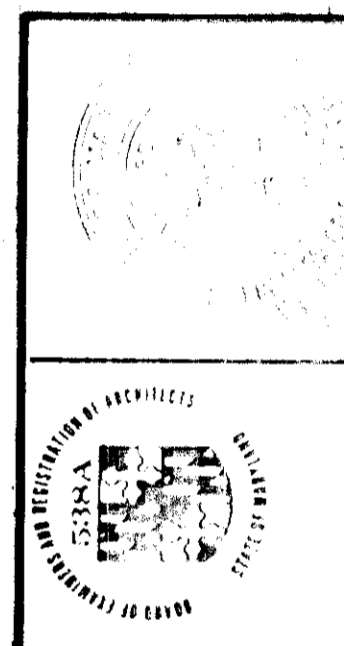
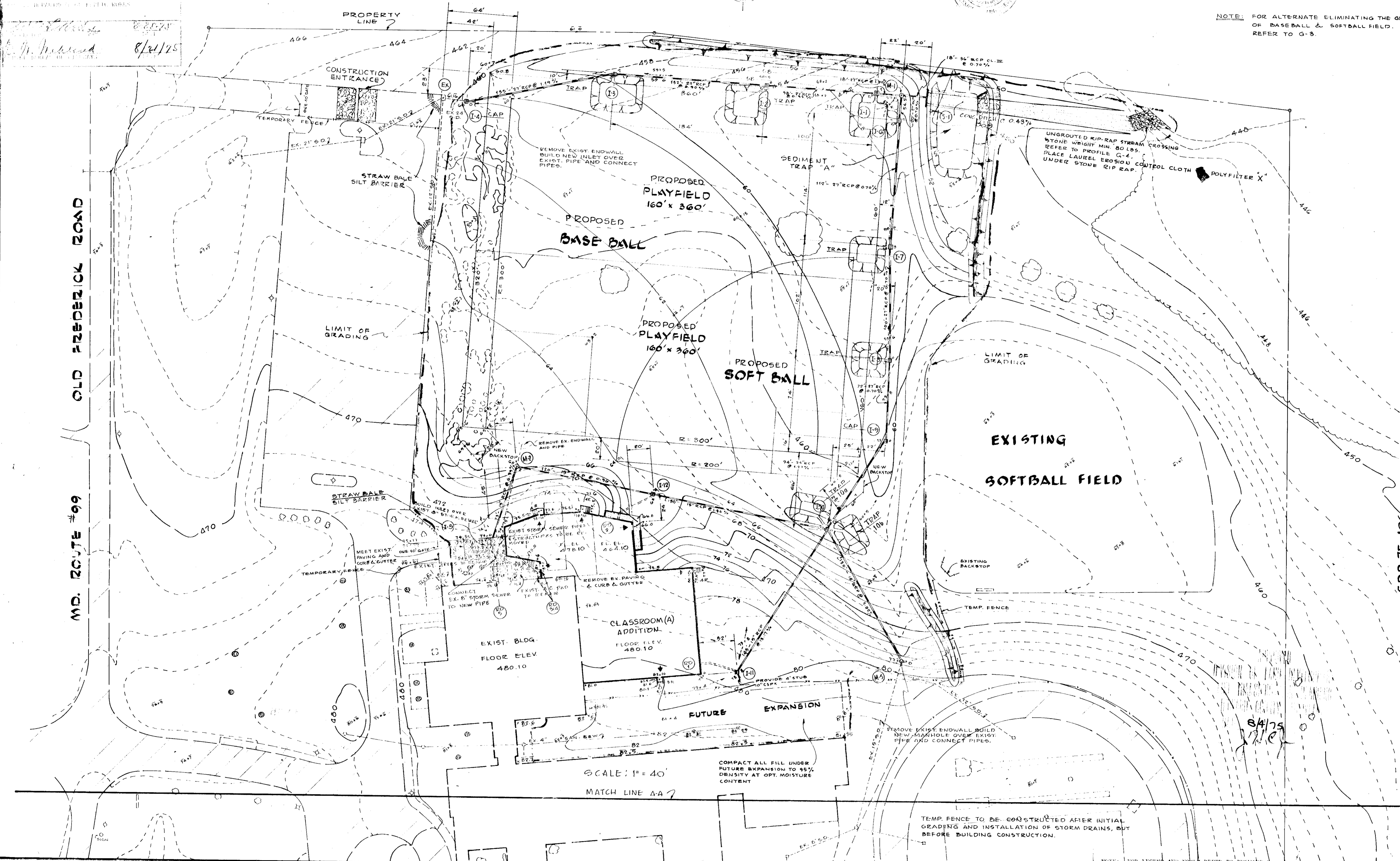
APPROVED FOR PUBLIC WATER AND SEWER SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH DEPARTMENT  
 APPROVED: [Signature] DATE: 8/12/75  
 APPROVED: [Signature] DATE: 8/12/75

REVIEWED FOR [Signature] S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS.  
 C. Wayne Kay DATE: 8-19-75  
 U.S. SOIL CONSERVATION SERVICE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: R. Zick DATE: 8-19-75

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 Perazichin MAY 22, 1975

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."  
 Donald J. Bogeny 4/29/75

NOTE: FOR ALTERNATE ELIMINATING THE GRADING OF BASEBALL & SOFTBALL FIELD. REFER TO G-3.

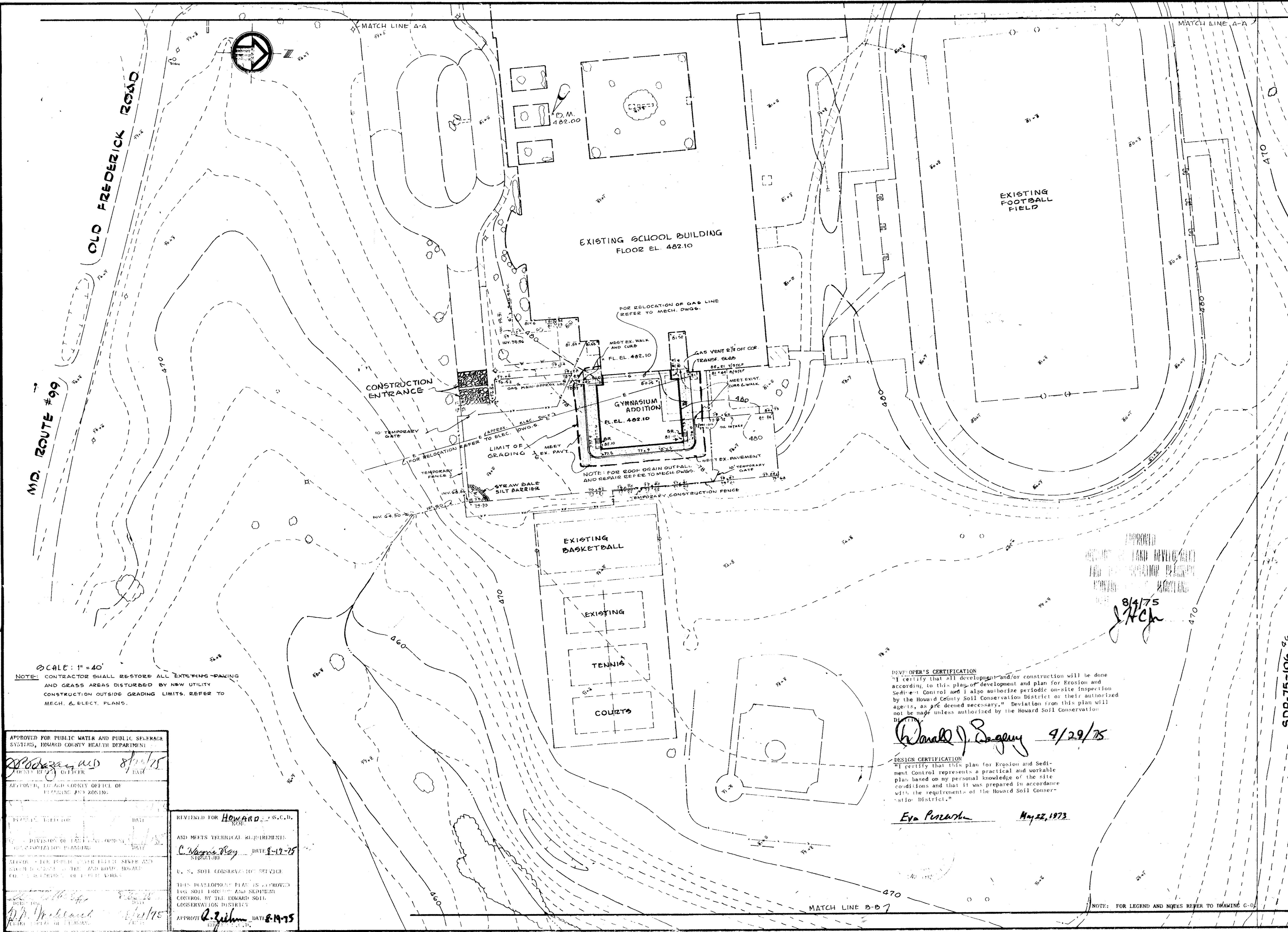


JOHANNES & MURRAY & ASSOCIATES  
 REGISTERED ARCHITECTS  
 1000 WASHINGTON AVENUE  
 WASHINGTON, D.C. 20004

MD. REG. NO. 99 ROGERS AVE. TO ST. JOHN'S LANE  
 HOWARD COUNTY, MARYLAND  
 SUPERVISOR OF SCHOOLS

PROJECT NO. 682  
 SHEET NO. 5-1-75  
 206

SDP-75-106



SCALE: 1" = 40'  
 NOTE: CONTRACTOR SHALL RESTORE ALL EXISTING PAVING AND GRASS AREAS DISTURBED BY NEW UTILITY CONSTRUCTION OUTSIDE GRADING LIMITS. REFER TO MECH. & ELECT. PLANS.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i> DESIGNER	DATE: 8/17/75
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
DESIGNED BY: <i>[Signature]</i>	DATE: 8/17/75
APPROVED BY: <i>[Signature]</i>	DATE: 8/19/75

REVIEWED FOR HOWARD COUNTY S.C.D. NAME: <i>[Signature]</i>	DATE: 8-19-75
AND MEETS TECHNICAL REQUIREMENTS	
U. S. SOIL CONSERVATION SERVICE	
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT	
APPROVED BY: <i>[Signature]</i>	DATE: 8-19-75

DESIGNER'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.  
*Donald J. Sogum* 9/29/75

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 Puzoski* May 22, 1973

SDP-75-106 960

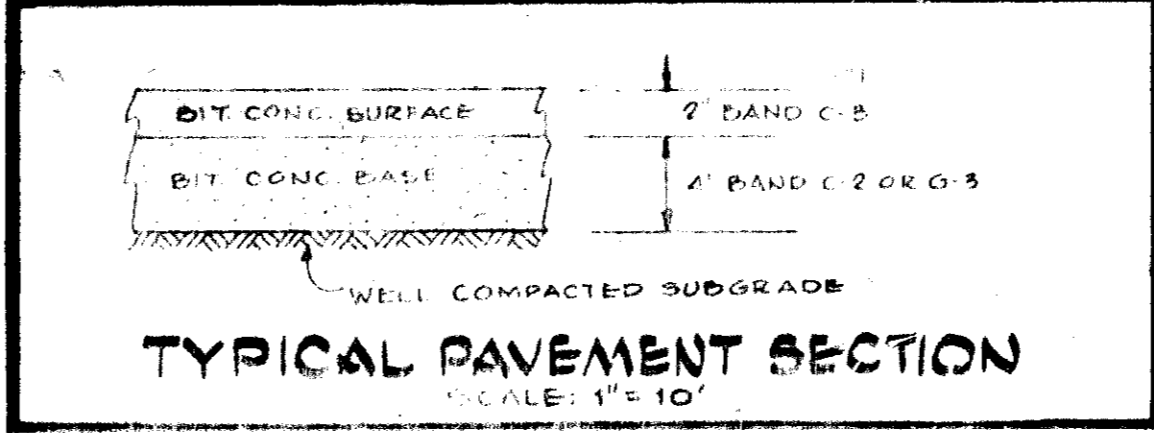
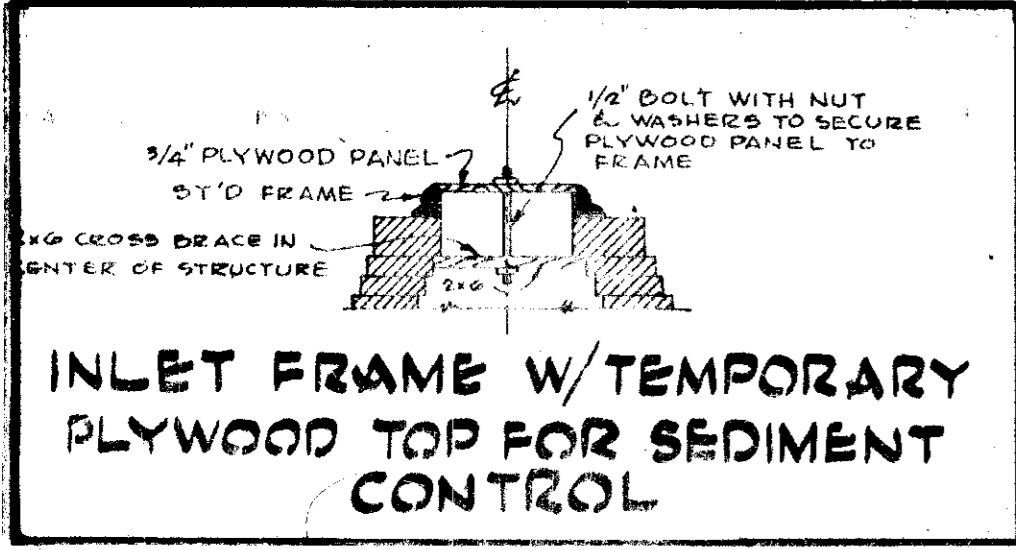
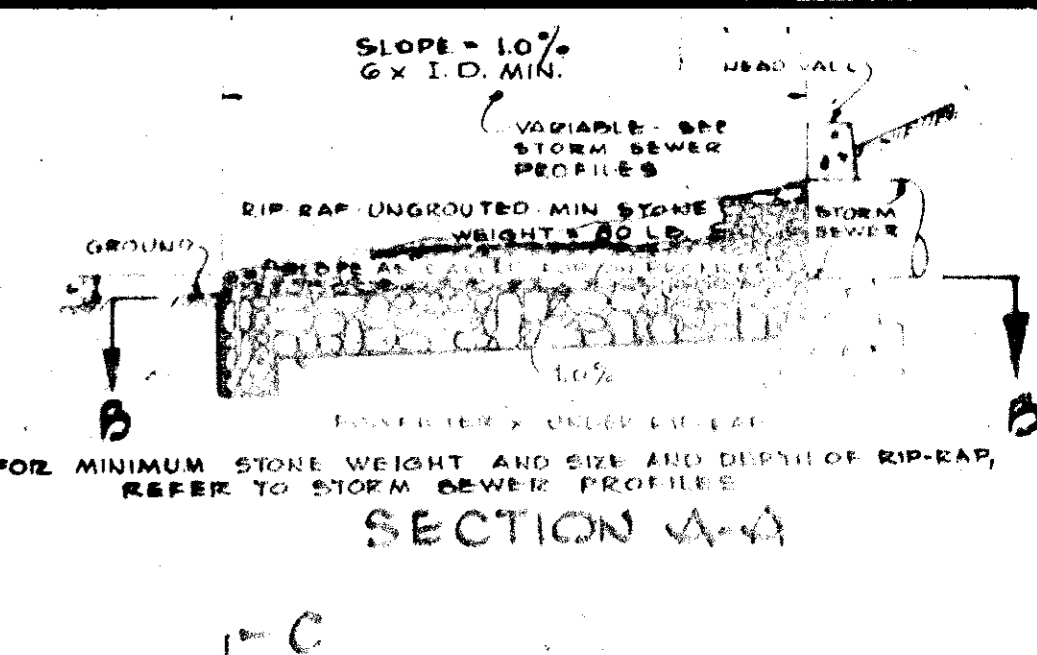
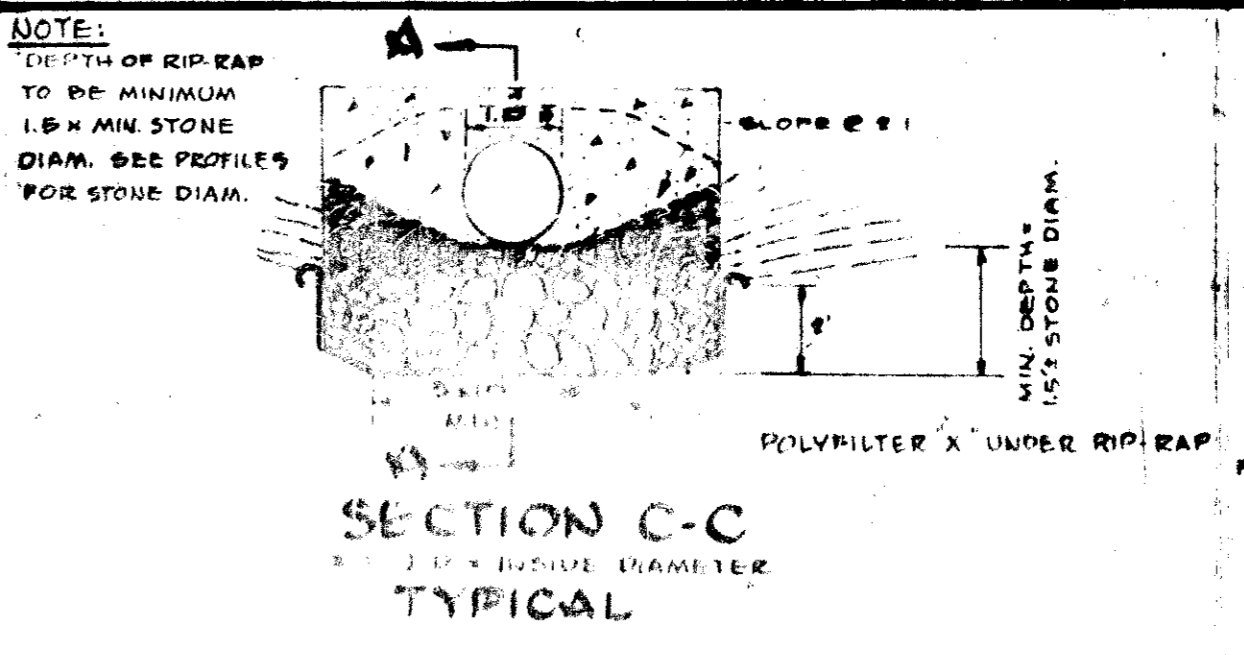
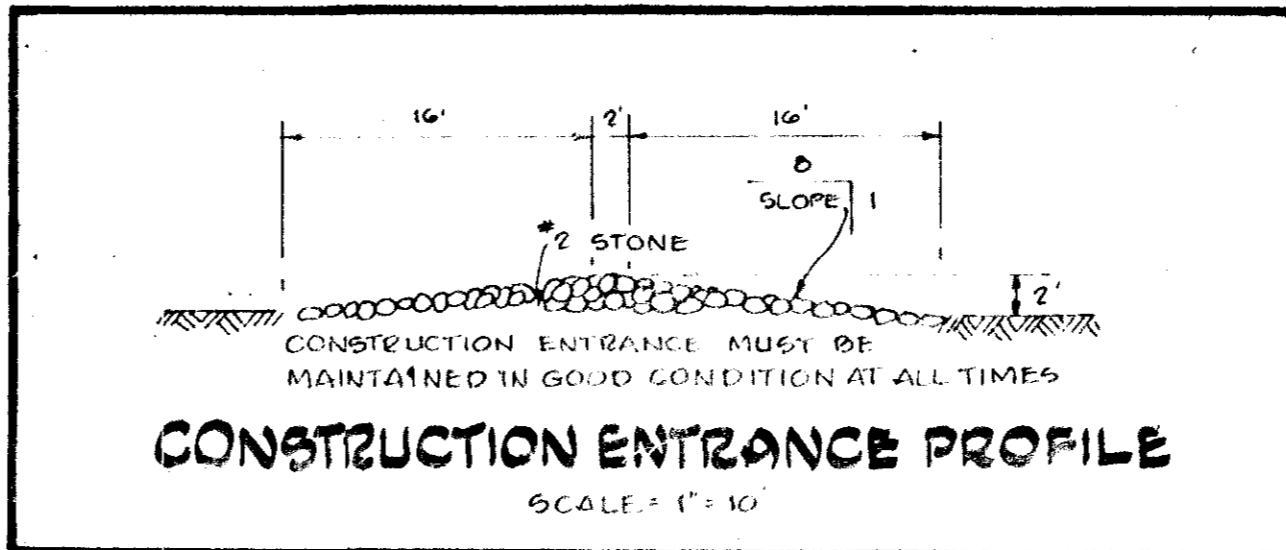
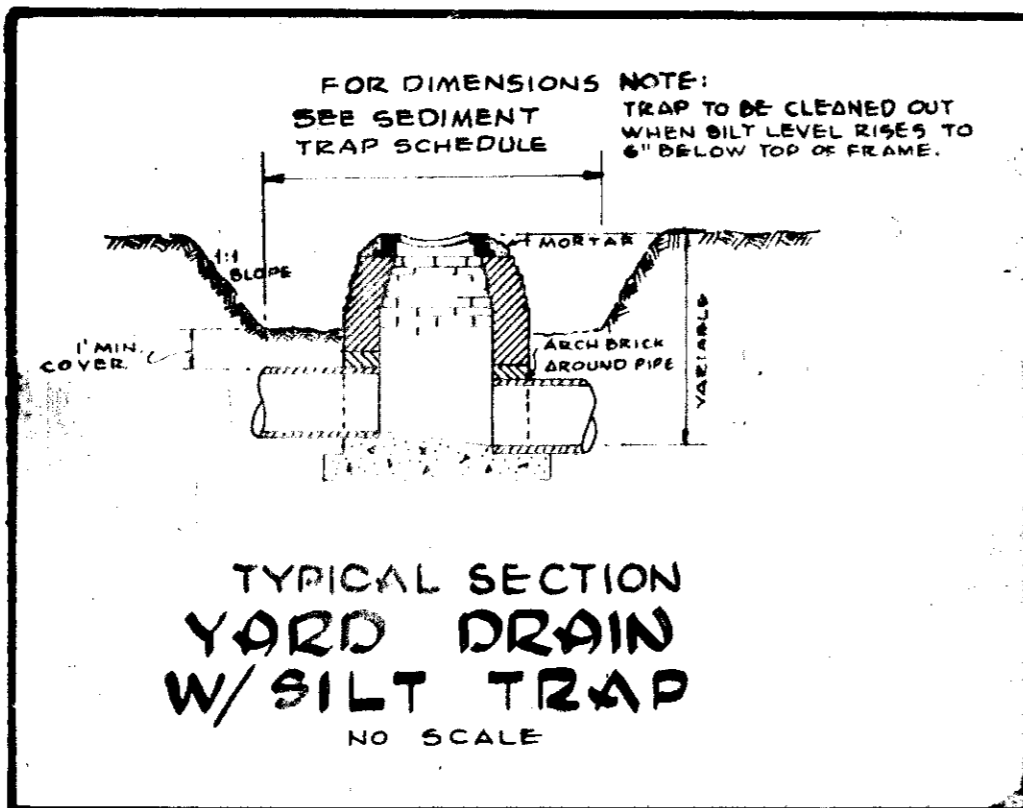
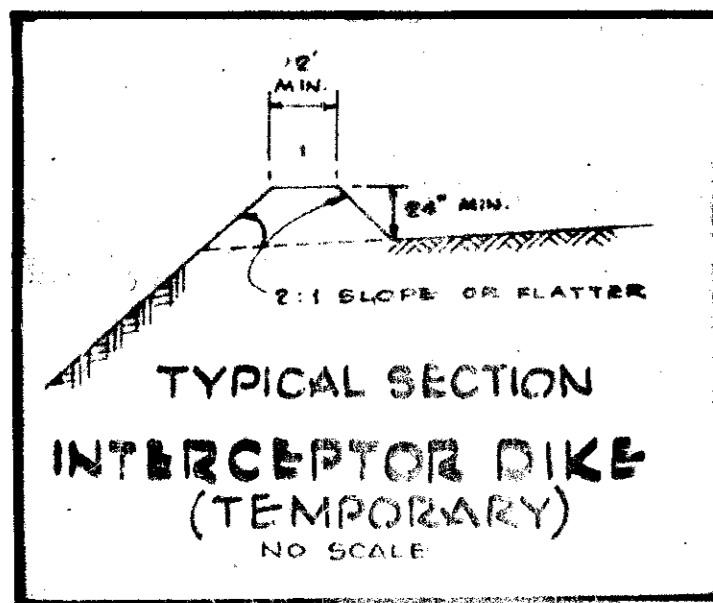
JOHANNES & MURRAY & ASSOCIATES  
 ARCHITECTS  
 1000 W. WASHINGTON DRIVE  
 WASHINGTON, D.C. 20004

MECHANICAL ENGINEER  
 ELECTRICAL ENGINEER  
 CIVIL ENGINEER

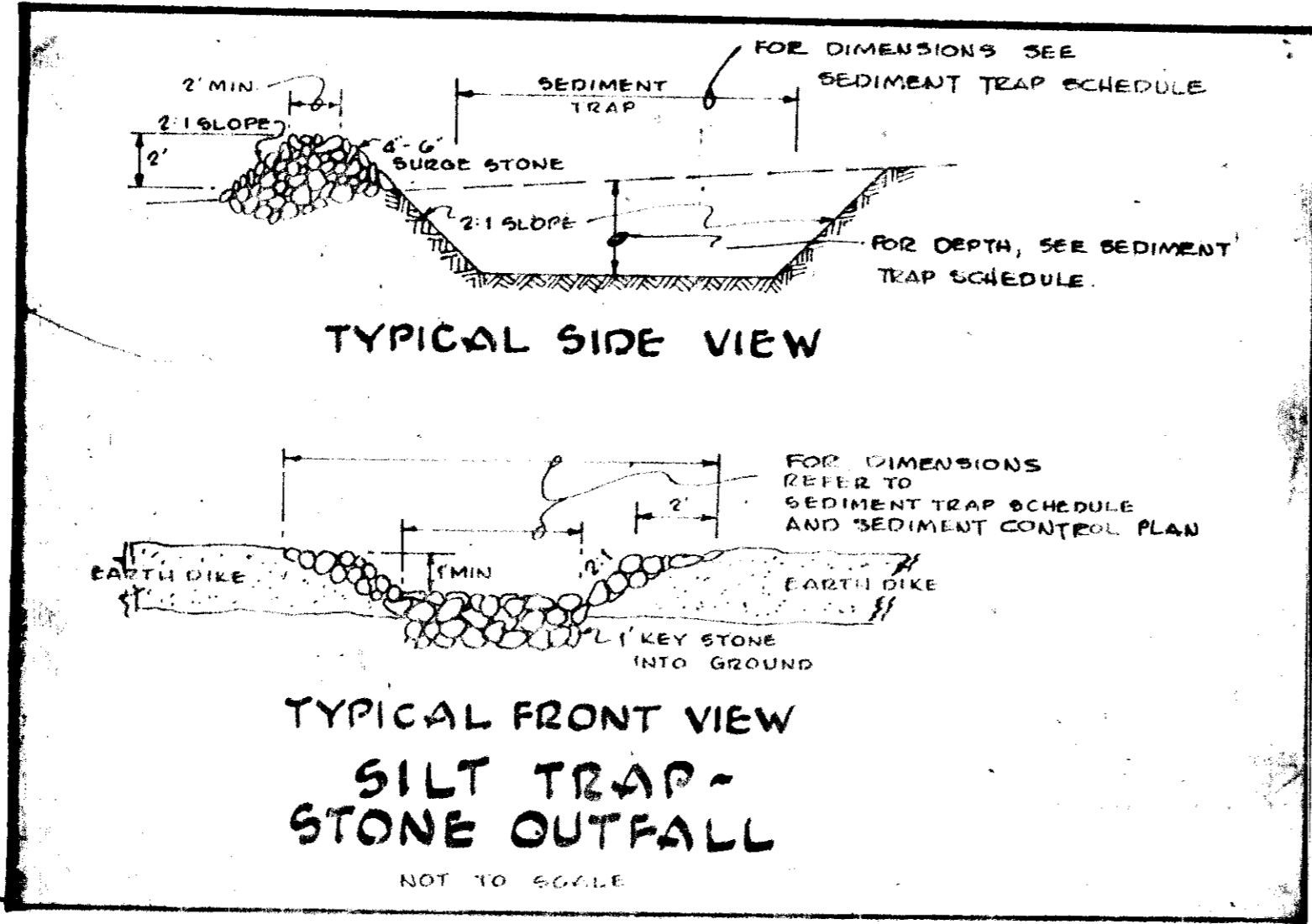
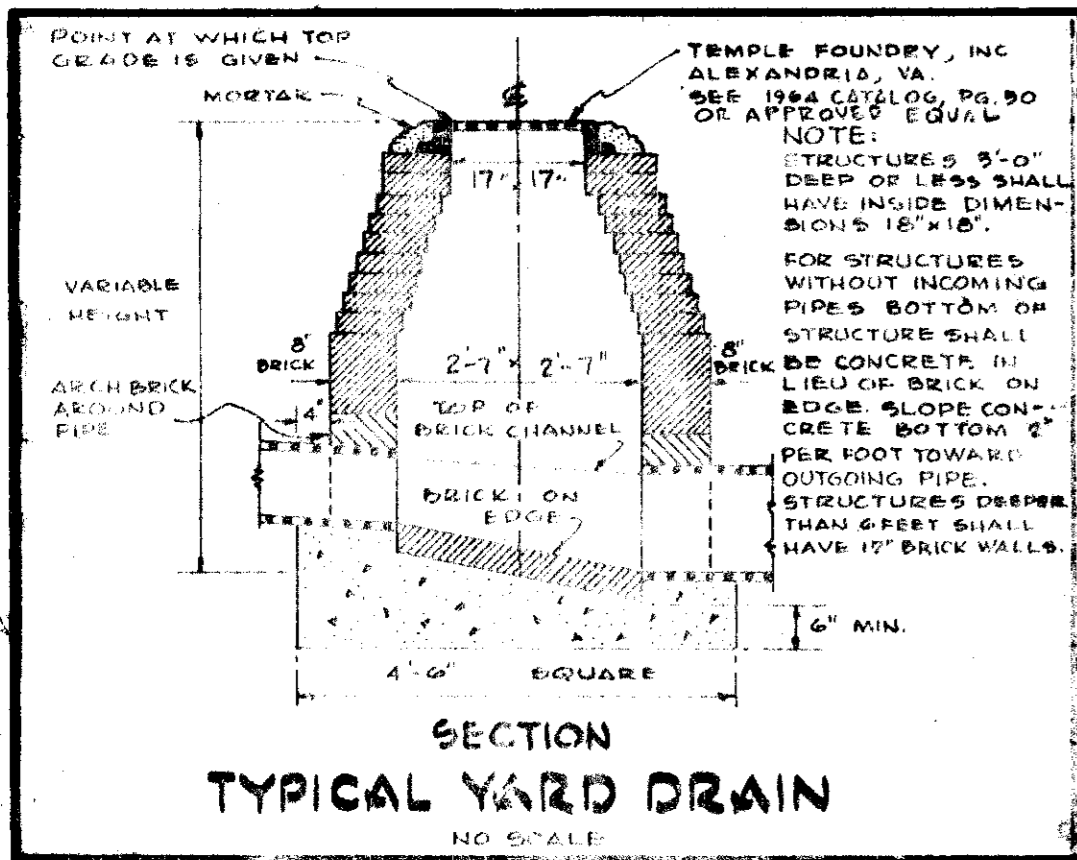
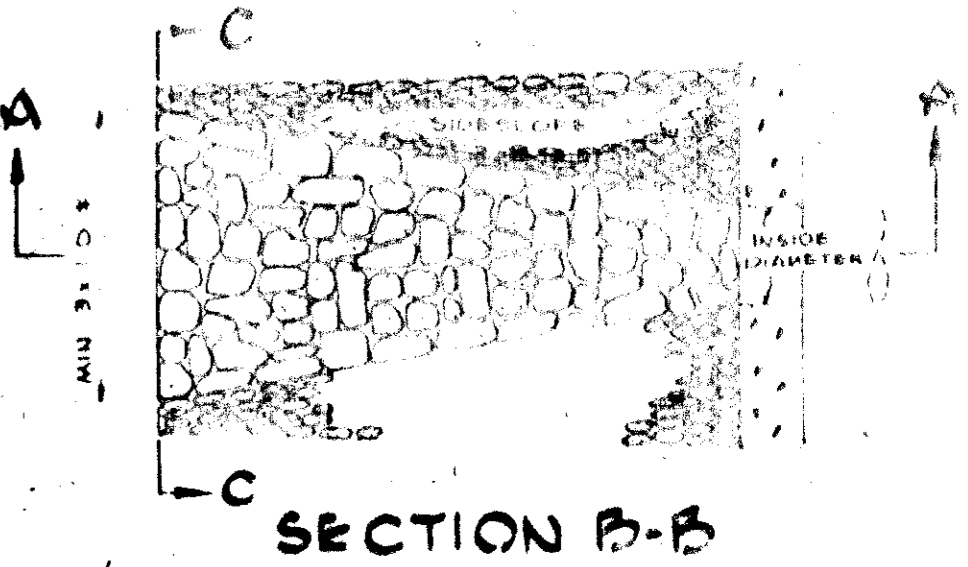
REGISTERED PROFESSIONAL ARCHITECT  
 REGISTERED PROFESSIONAL ENGINEER

MD. RTE. NO. 99  
 ROGERS AVE. TO ST. JOHNS LANE  
 HOWARD COUNTY DEPARTMENT OF EDUCATION  
 SUBDIVISION OF SCHOOLS  
 CONTROL PLAN - AUDITORIUM ADD.

DATE: 5-1-75  
 SHEET NO. 2 OF 6

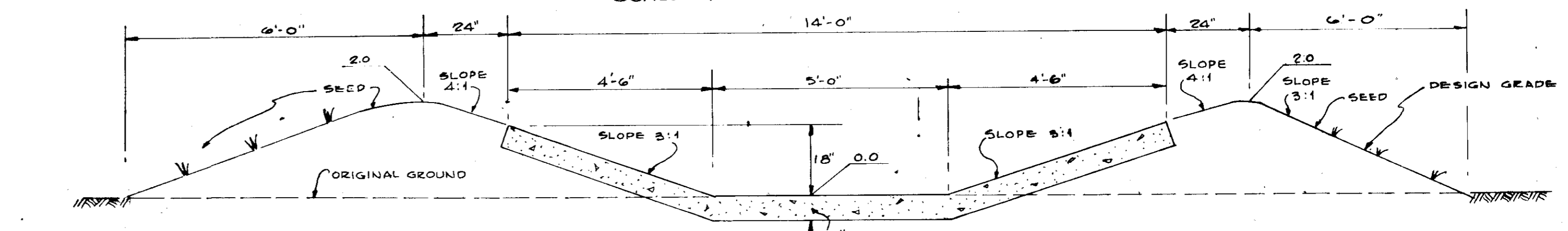
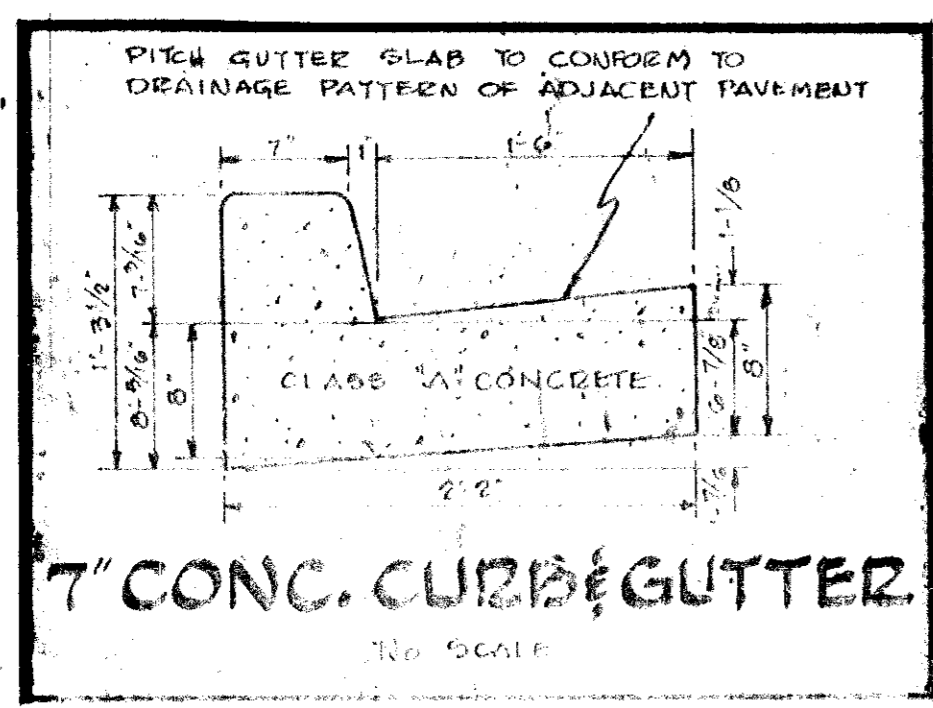
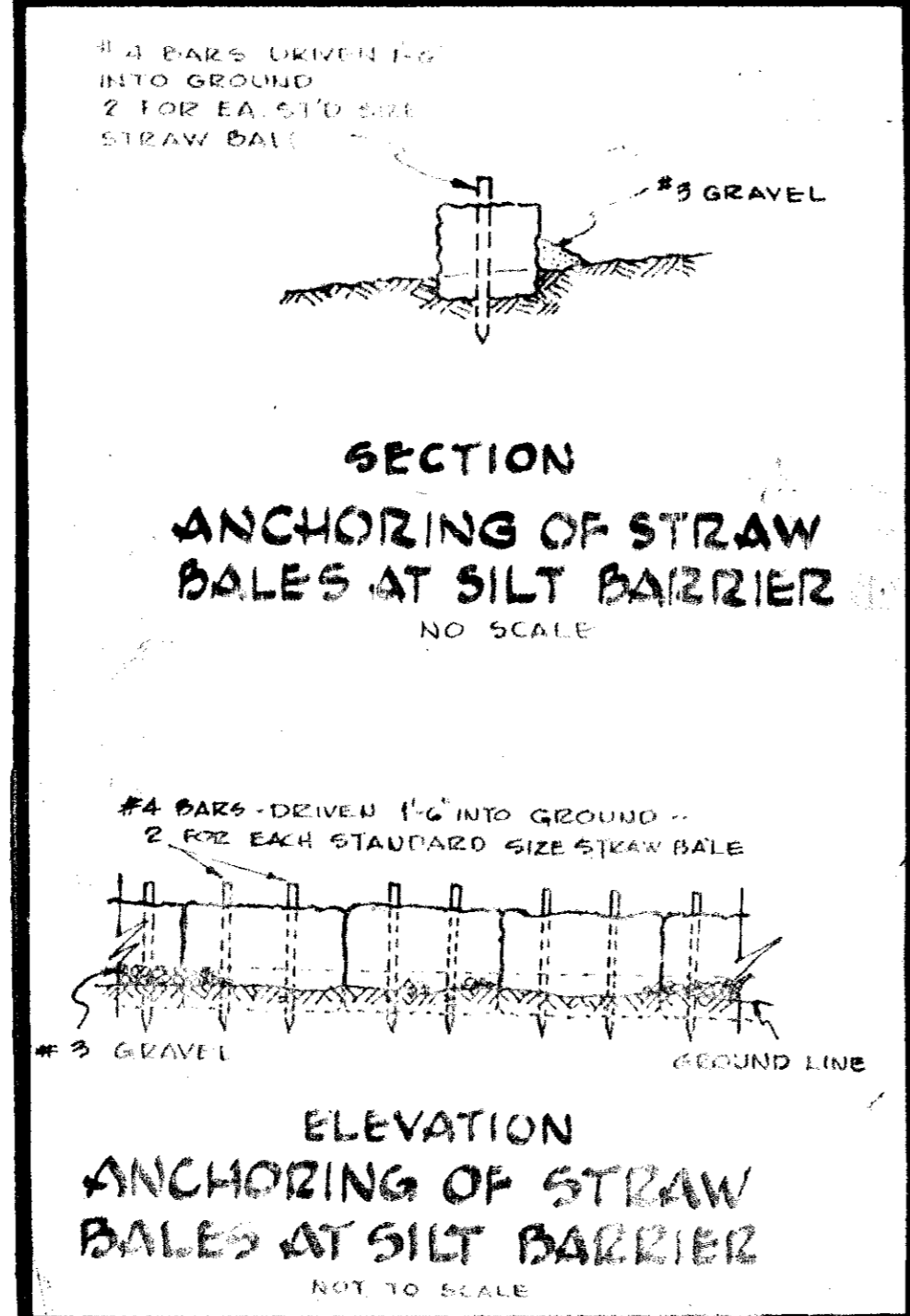
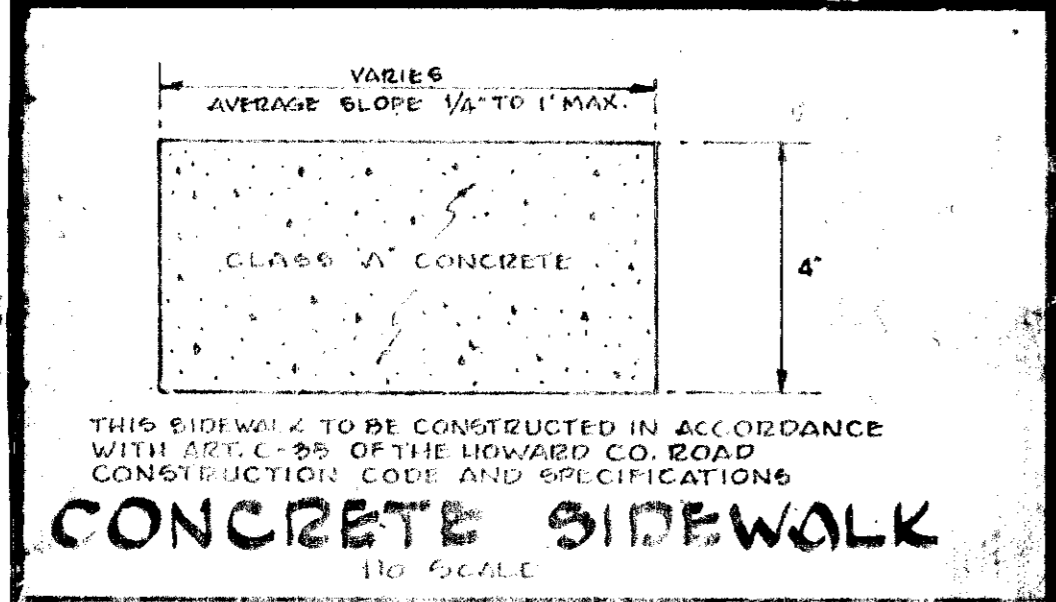
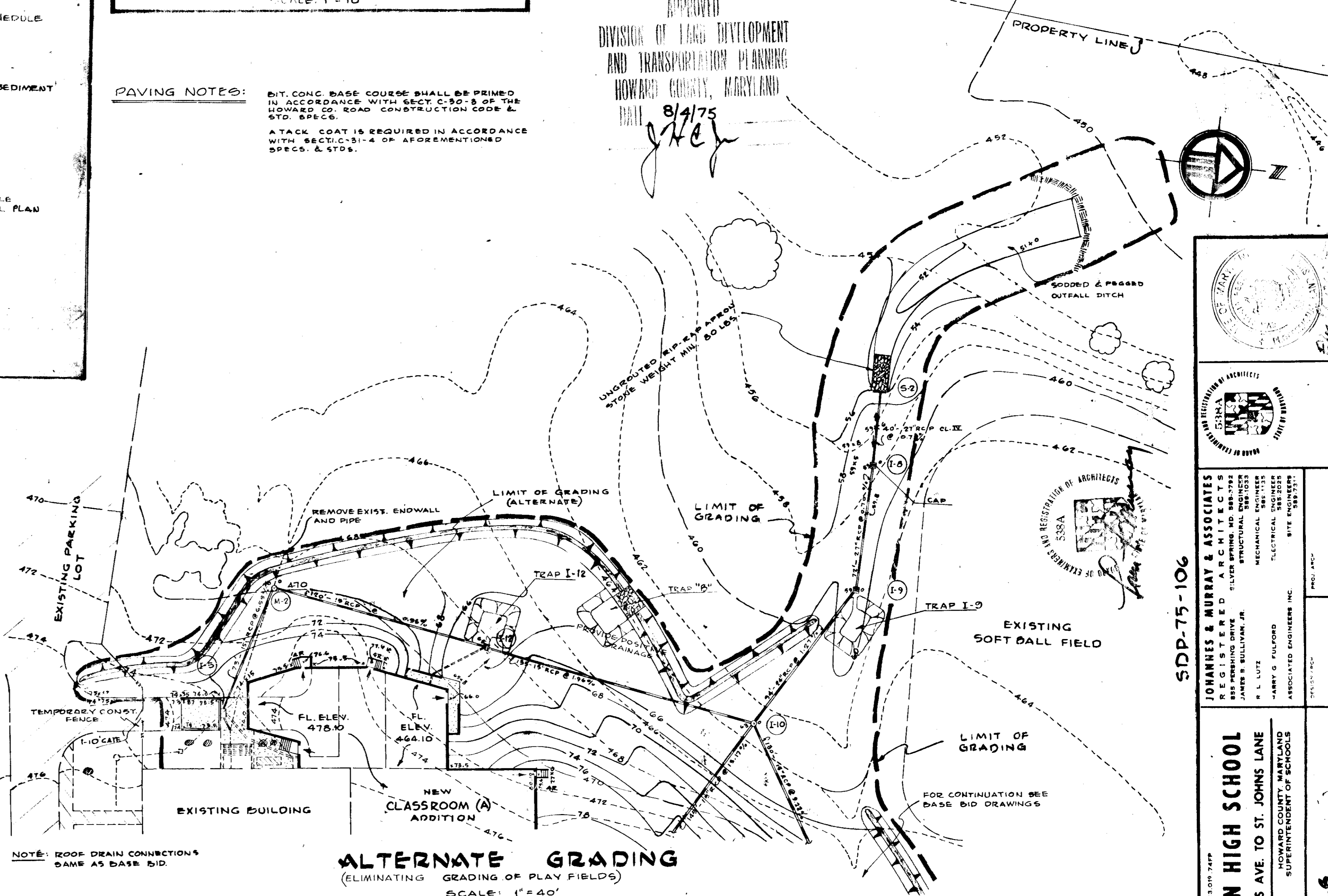


**UNGROUTED RIP-RAP DETAIL**  
NOT TO SCALE  
**ALTERNATE GRADING**



**PAVING NOTES:** BIT. CONC. BASE COURSE SHALL BE FINED IN ACCORDANCE WITH SECT. C-30-8 OF THE HOWARD CO. ROAD CONSTRUCTION CODE & STD. SPECS. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECT. C-31-4 OF AFOREMENTIONED SPECS. & STD.

APPROVED  
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE: 8/11/75  
*J.H.C.*



REVIEWED FOR HOWARD CO. S.C.D.  
AND MEETS TECHNICAL REQUIREMENTS  
*C. Kagan, Roy* DATE: 8-19-75  
DATE: 8-19-75  
APPROVED: *P. J. ...* DATE: 8-19-75  
DATE: 8/16/75  
DATE: 8/16/75

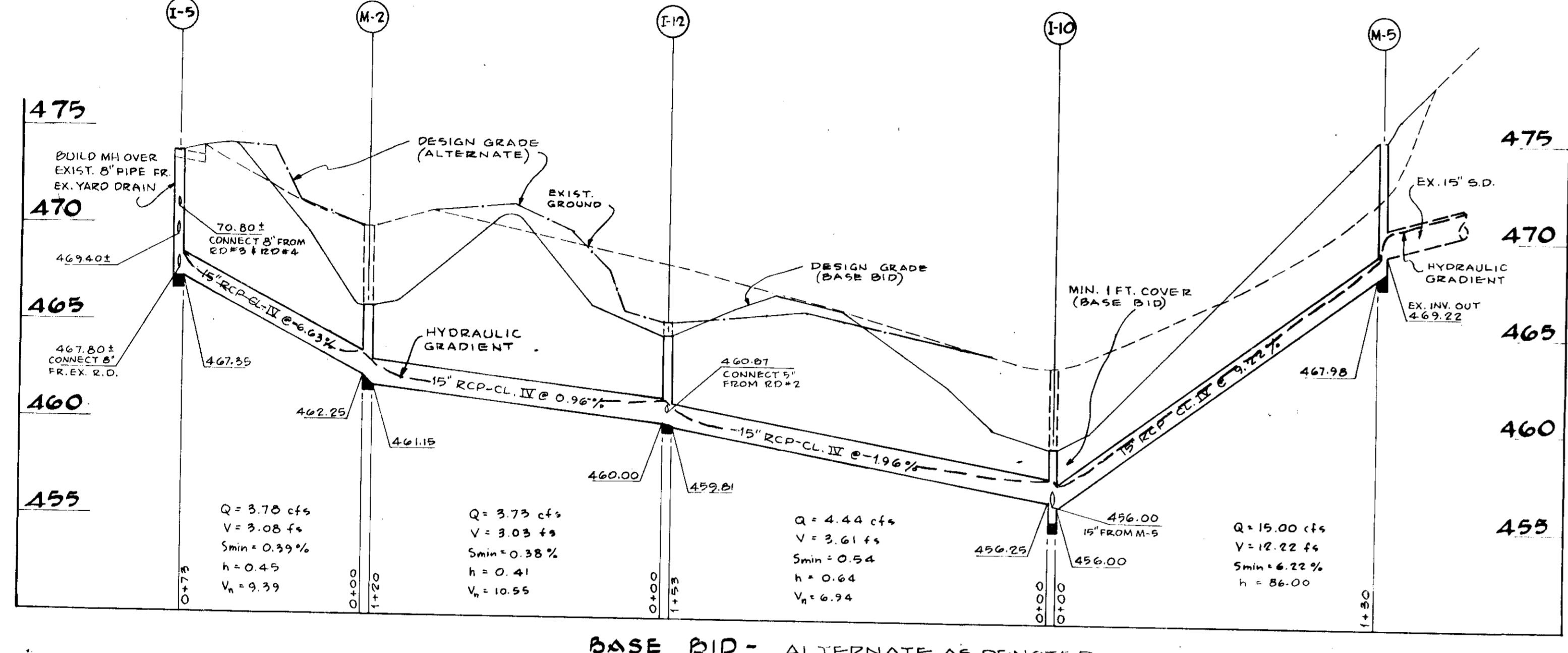
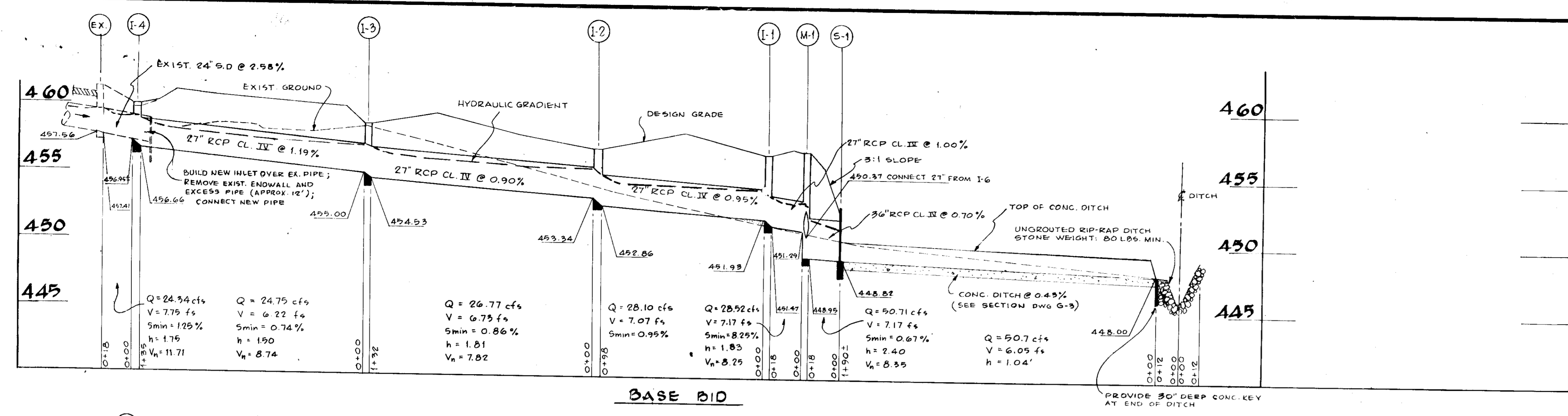
SDP-75-106

JOHANNES & MURRAY & ASSOCIATES  
REGISTERED ARCHITECTS  
1800 PINEBUSH DRIVE  
JAMES B. BULLIVANT, JR.  
MECHANICAL ENGINEER  
ELECTRICAL ENGINEER  
ASSOCIATED ENGINEERS, INC.  
DATE: 8/11/75  
PROJECT NO.: 89-0775  
DRAWING TITLE: DETAILS

MOUNT HEBRON HIGH SCHOOL  
MD. RTE. NO. 99 ROGERS AVE. TO ST. JOHN'S LANE  
HOWARD COUNTY, MARYLAND  
SUPERINTENDENT OF SCHOOLS  
DR. W. THOMAS GODEFRE

DATE: 5-1-75  
SHEET NO. 4 OF 6  
G3  
SDP-75-106

Reviewed for Howard S.C.D.  
Name  
and meets Technical Requirements  
C. Wayne Ray Date 8-19-75  
Signature  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
[Signature] DATE: 8/21/75  
COUNTY HEALTH OFFICER  
APPROVED, HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
PLANNING DIRECTOR DATE: 8/21/75  
CHIEF DIVISION OF LAND DEVELOPMENT TRANSPORTATION PLANNING DATE: 8/21/75  
APPROVED FOR PUBLIC WATER PUBLIC SEWER AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
[Signature] DATE: 8/21/75  
CHIEF BUREAU OF HIGHWAYS

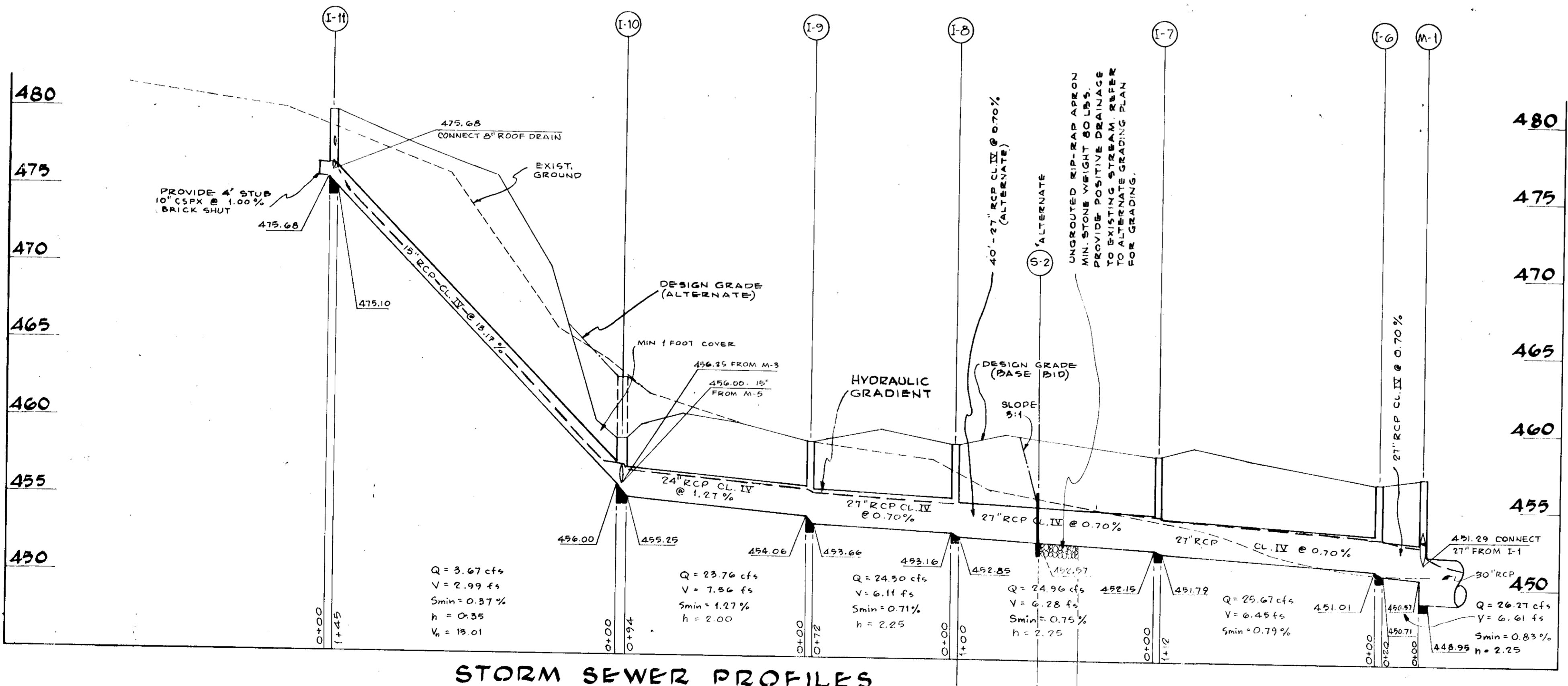


**LEGEND:**  
RCP = REINFORCED CONCRETE PIPE  
CSPX = CONCRETE SEWER PIPE EXTRA STRENGTH  
--- = EXISTING GROUND  
--- = DESIGN GRADE (ALTERNATE)  
--- = DESIGN GRADE (BASE BID)

STRUCTURE TABLE - BASE BID

NO.	TYPE	TOP ELEV.	INVERT OUT	REMARKS
I-1	YARD DRAIN	456.70	451.47	AS DETAILED
I-2	YARD DRAIN	457.00	452.86	AS DETAILED
I-3	YARD DRAIN	458.70	454.53	AS DETAILED
I-4	YARD DRAIN	460.00	456.66	AS DETAILED
I-5	A-1 INLET	473.80	467.35	HOWARD CO. D.P.W. STD SDD-29
I-6	YARD DRAIN	456.70	450.71	AS DETAILED
I-7	YARD DRAIN	458.30	451.79	AS DETAILED
I-8	YARD DRAIN	459.00	452.85	AS DETAILED
I-9	YARD DRAIN	459.00	453.66	AS DETAILED
I-10	YARD DRAIN	459.00	455.25	AS DETAILED
I-11	YARD INLET	478.80	475.10	HOWARD CO. D.P.W. STD SDD-49
I-12	YARD INLET	466.00	459.81	HOWARD CO. D.P.W. STD SDD-49
M-1	A-1 MANHOLE	457.00	466.95	HOWARD CO. D.P.W. STD SDD-7
M-2	B- MANHOLE	465.20	461.15	HOWARD CO. DPW STD. SDD-9
M-5	A-1 MANHOLE	477.00*	467.98	HOWARD CO. D.P.W. STD SDD-7
S-1	C - ENDWALL	-	468.82	MSHA STD MD-354-014*

\* ADJUST TO SLOPE TOP OF MANHOLE WITH CONCRETE OR BRICK COLLAR.  
\*\* WITH CONCRETE OUTFALL DITCH, REFER TO TYPICAL SECTION DRAWING G-3.



STRUCTURE TABLE - ALTERNATE

NO.	TYPE	TOP ELEV.	INVERT OUT	REMARKS
I-5	A-1 INLET	473.80	467.35	HOWARD CO. D.P.W. STD SDD-29
I-8	YARD DRAIN	459.00	452.85	AS DETAILED
I-9	YARD DRAIN	459.00	453.66	AS DETAILED
I-10	YARD DRAIN	463.00	455.55	AS DETAILED
I-11	YARD INLET	478.80	475.10	HOWARD CO. D.P.W. STD SDD-49
I-12	YARD INLET	465.30	459.81	HOWARD CO. D.P.W. STD SDD-49
M-2	A-1 MANHOLE	470.00	461.15	HOWARD CO. D.P.W. STD SDD-7
M-5	A-1 MANHOLE	477.00*	467.98	HOWARD CO. D.P.W. STD SDD-7
S-2	C - ENDWALL	-	452.47	MSHA STD MD-354-01*

\* ADJUST TO SLOPE TOP OF MANHOLE WITH CONCRETE OR BRICK COLLAR.  
\* WITH UNROUTED RIP-RAP APRON, REFER TO DETAIL DWG G-3

NOTE: PIPES AND CONC. DITCHES LAID IN FILL SHALL HAVE FILL COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT.

**STORM SEWER PROFILES**  
SCALE: HORIZ. = 1" = 40'; VERT. 1" = 5'

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF PLANNING AND ZONING

JOHANNES & MURRAY & ASSOCIATES  
INCORPORATED  
1000 PERSHING DRIVE  
BETHESDA, MARYLAND 20814  
REGISTERED PROFESSIONAL ENGINEERS  
JAMES B. MULLIVAN, JR.  
R. L. LUTZ  
HARRY G. FULFORD  
ASSOCIATED ENGINEERS, INC.  
1100 W. 11TH STREET  
BETHESDA, MARYLAND 20814

REC. NO. 13,017,747P  
SDP-75-106  
MOUNT HEBRON HIGH SCHOOL  
MD. RTE. NO. 99 ROGERS AVE. TO ST. JOHNS LANE  
FOR THE BOARD OF EDUCATION  
DR. M. THOMAS GODFREY  
SUPERINTENDENT OF SCHOOLS

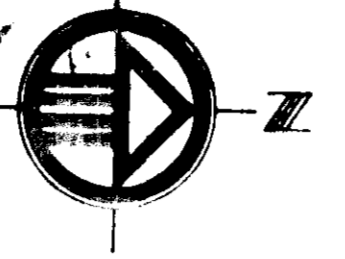
DATE: 5-1-75  
SHEET NO. 5 OF 6  
G4  
SDP-75-106

APPROVED, HOWARD COUNTY OFFICE OF HEALTH AND ENVIRONMENTAL SERVICES  
 DATE: 8/26/75  
 APPROVED, HOWARD COUNTY OFFICE OF PUBLIC WORKS  
 DATE: 8-26-75  
 APPROVED FOR PUBLIC UTILITIES AND WATER SUPPLY  
 DATE: 8/26/75

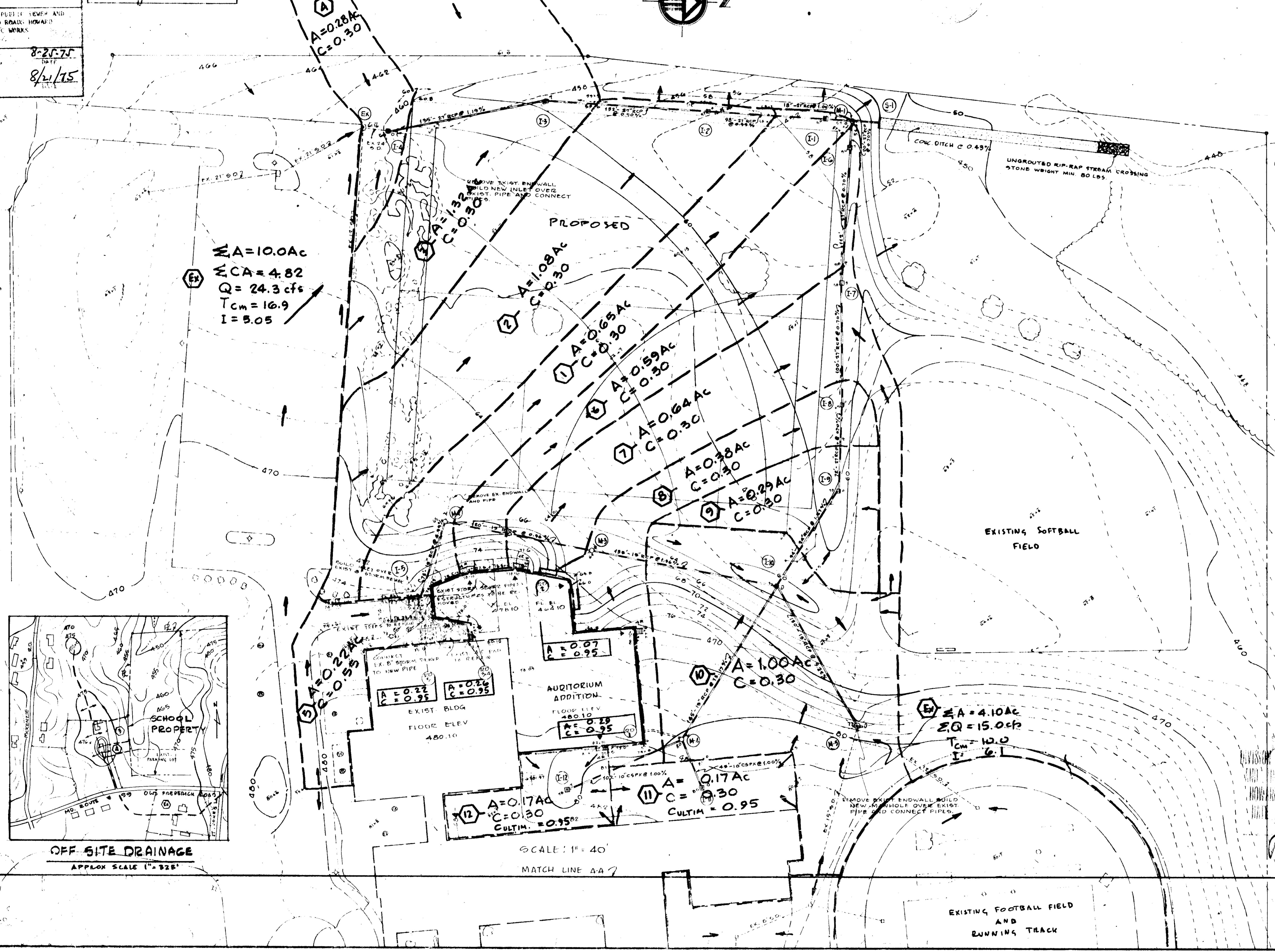
REVISION FOR HOWARD S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS  
 C. Wayne Ray DATE: 8-19-75  
 U.S. SOIL CONSERVATION SERVICE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT  
 APPROVED: P. Zickler DATE: 8-19-75

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 Perzenda 5/30/75

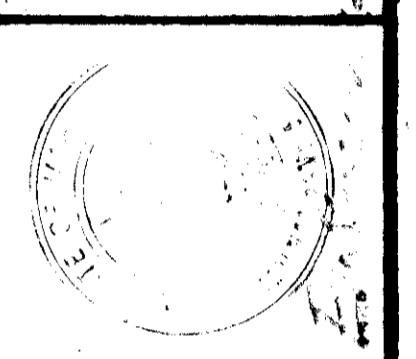
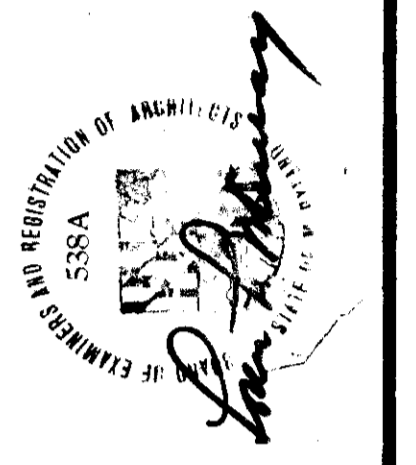
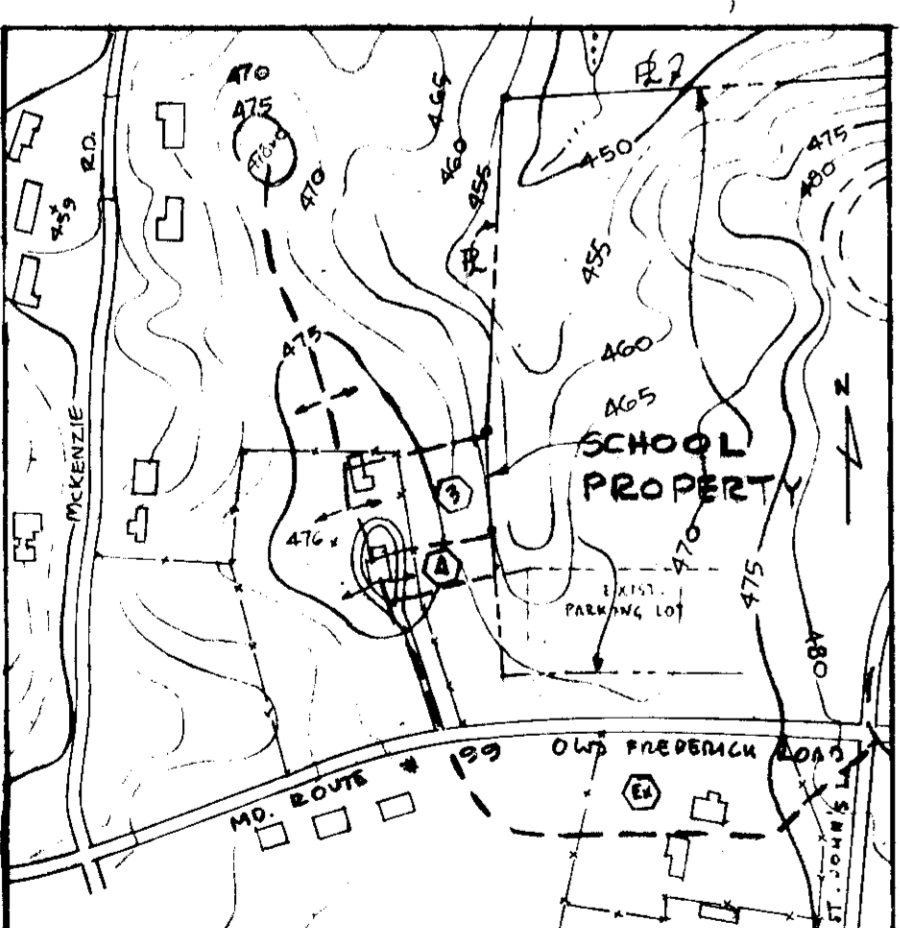
DEVELOPER'S CERTIFICATION  
 "I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents, as and deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District."  
 Donald J. Begany 4/29/75



- LEGEND
- ⑦ DRAINAGE DIVIDE
  - DRAINAGE AREA
  - A AREA IN ACRES
  - C RUNOFF COEFFICIENT
  - FLOW DIRECTION



ΣA=10.0Ac  
 ΣCA=4.82  
 Q=24.3 cfs  
 T<sub>cm</sub>=16.9  
 I=5.05



JOHNS & MURRAY & ASSOCIATES  
 REGISTERED PROFESSIONAL ENGINEERS  
 1000 W. BELT ROAD  
 BALTIMORE, MARYLAND 21201

MOUNT HEBRON HIGH SCHOOL  
 MD. RTE. NO. 99 ROGERS AVE. TO ST. JOHNS LANE  
 HOWARD COUNTY, MARYLAND  
 SUPERINTENDENT OF SCHOOLS  
 DR. M. THOMAS GOEDERKE

682  
 SHEET NO.  
 DD-1  
 6 of 6  
 SDP-75-106