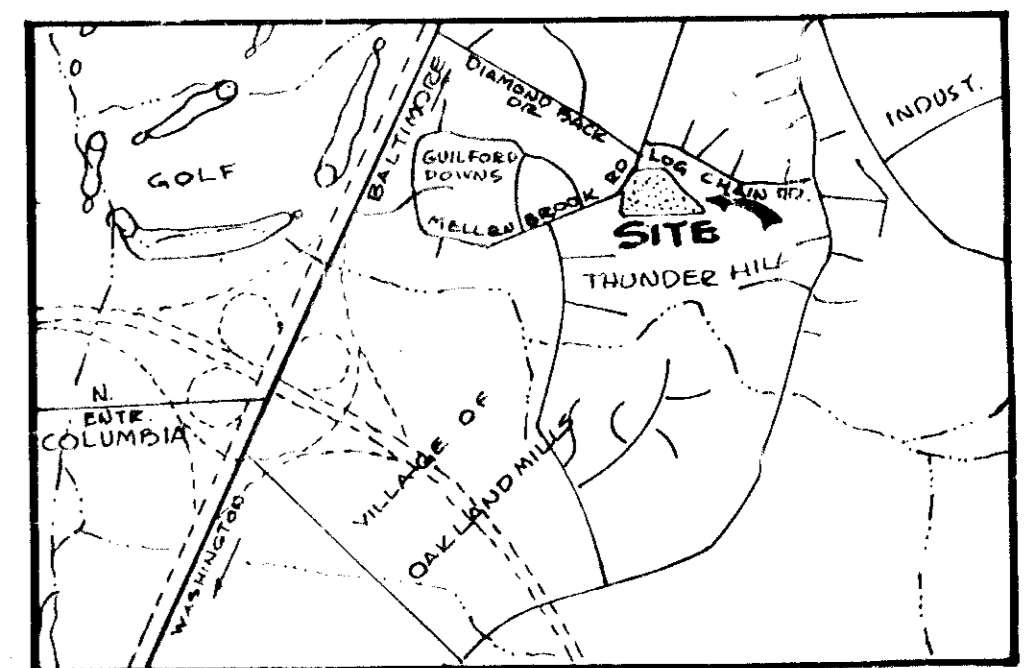


- LEGEND**
- 42.6 --- EXISTING SPOT GRADE
  - 9.0 --- DESIGN SPOT GRADE
  - 398 --- EXISTING CONTOUR
  - 400 --- DESIGN CONTOUR
  - --- CONCRETE CURB & GUTTER - NEW
  - --- EXISTING CONCRETE CURB & GUTTER
  - --- EXISTING STORM DRAIN & STRUCTURE
  - --- DESIGN STORM DRAIN & STRUCTURE
  - --- EXISTING PAVING
  - --- NEW BITUMINOUS CONCRETE
  - --- NEW ALL WEATHER SURFACE CONCRETE
  - --- QUANTITY: 91 PINUS STROBUS, WHITE PINE 5-6' Ø x 8' (MID SIZE) EXTRA HEAVY, BUSHY STOCK FOR SCREEN PLANTING. PLANT DOUBLE ROW STAGGERED - ROWS 6' APART TREES 15' APART. THIS PLANTING CAN BE PRUNED INTO A HEDGE WHEN TREES GROW TOGETHER.
  - --- DUMPED, UNGRADED RIP-RAP - MIN. WEIGHT OF STONES 80 TO 100 LBS. MIN. 1 1/2" THICK; WIDTH AS SHOWN ON POLYFILTER X BLANKET



**VICINITY MAP**  
SCALE: 3/4" = 1 MILE

DESIGNER'S CERTIFICATION  
I certify that all development and/or construction will be done in accordance with the provisions of the zoning ordinance and the subdivision ordinance of the County of Howard, Maryland, and that the same will be subject to the inspection by the Board of Public Works and the Department of Public Works of the County of Howard, Maryland, and that the same will be subject to the inspection by the Board of Public Works and the Department of Public Works of the County of Howard, Maryland, and that the same will be subject to the inspection by the Board of Public Works and the Department of Public Works of the County of Howard, Maryland.

*Handwritten Signature* November 13, 1974

SEE UNIT PRICES IN SPECS FOR PRICE ON CONC. PAVING, 5" THICK, REINFORCED WITH 30 LBS. OF WIRE MESH PER 100 SQ. FT.

- COMPLETE SET OF SUPPLEMENTAL SITE PLANS CONSISTS OF:
1. GRADING & LAYOUT PLAN - G-1
  2. DETAILS & STORM DRAINAGE PROFILES - G-2
  3. DETAILS & NOTES - G-3
  4. SEDIMENT CONTROL PLAN - G-4
- ABOVE PLANS SERVE AS SUPPLEMENT TO APPROVED SITE PLANS S.D.P. 70-02

THUNDER HILL ELEMENTARY SCHOOL  
VILLAGE OF OAKLAND MILLS  
6<sup>TH</sup> ELECTION DISTRICT  
ZONING - R-20  
OWNER: BOARD OF EDUCATION - HOWARD COUNTY, MD.  
PROP. RECORDED: LIBER V.H.H. 392, FOLIO 732

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

APPROVED: *Robert W. Johns* DATE: 11-15-74  
HOWARD S.D.

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.

SCALE: 1" = 40'

*Handwritten Signature* DATE: 11-6-74

REVIEWED FOR: *Howard* S.C.D.  
AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *Handwritten Signature* DATE: 11-15-74  
U.S. SOIL CONSERVATION SERVICE

APPROVED FOR PUBLIC/PRIVATE WATER AND PUBLIC/PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Handwritten Signature* DATE: 11-15-74  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Handwritten Signature* DATE: 11-15-74  
CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS  
*Handwritten Signature* DATE: 11-15-74  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR

*Handwritten Signature* DATE: 11-15-74  
CHIEF, BUREAU OF HIGHWAYS

PROJECT # N-4-3032

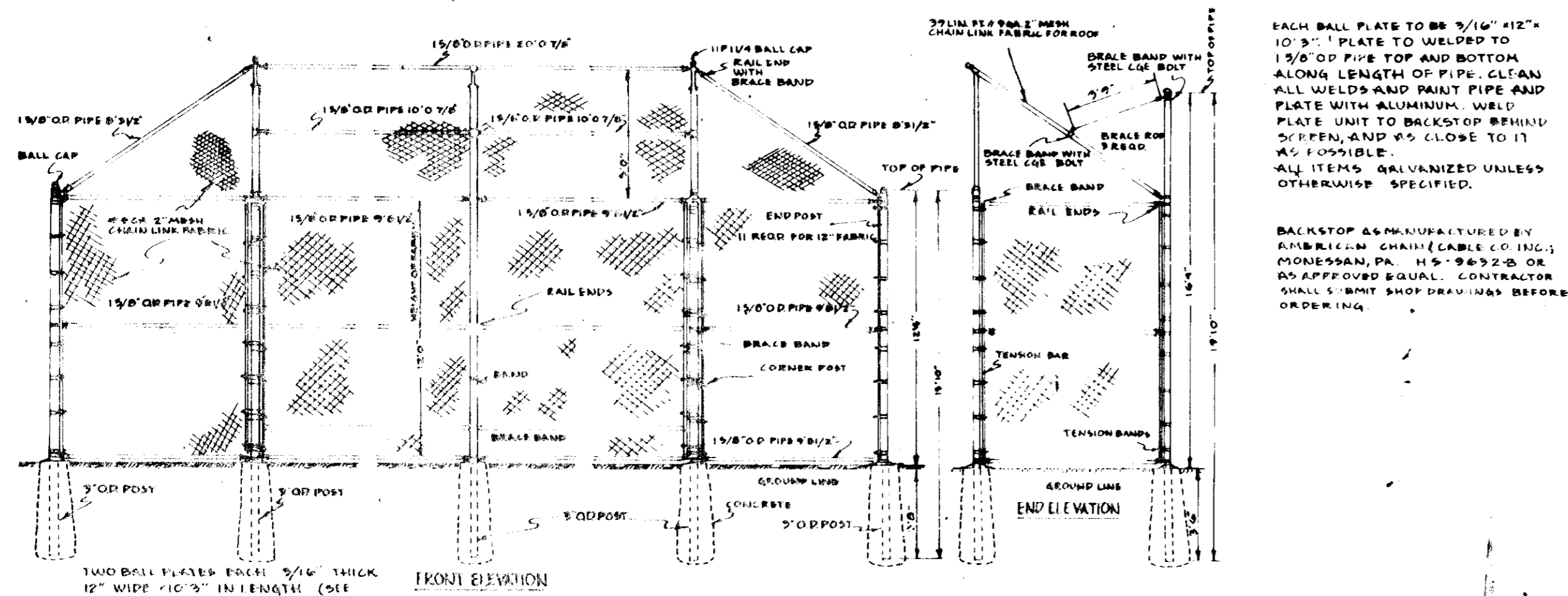
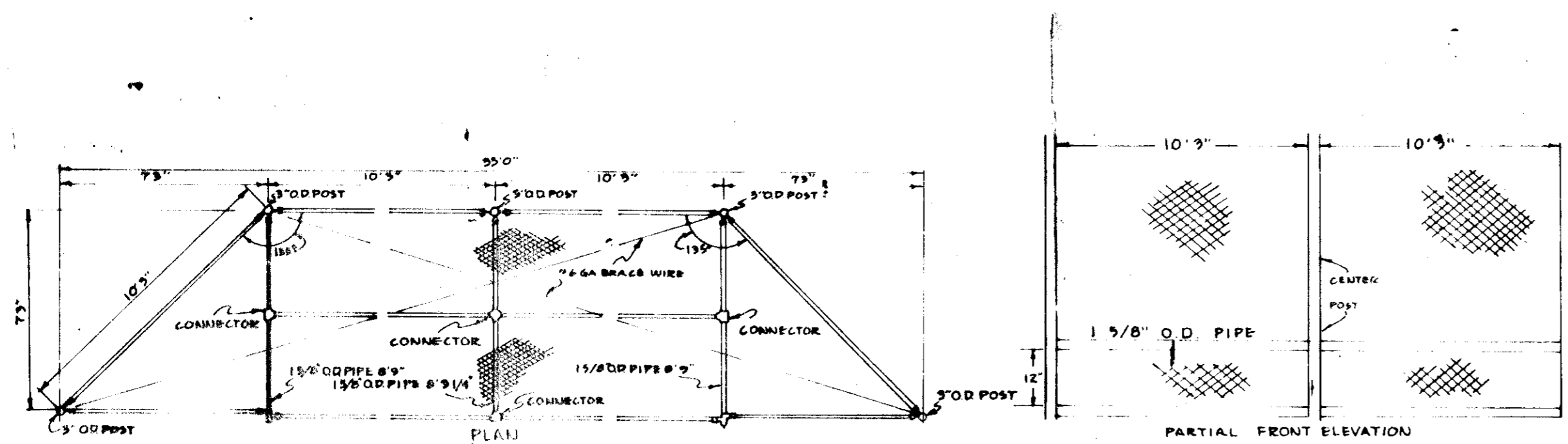
THUNDER HILL ELEMENTARY SCHOOL RECREATION CENTER

ASSOCIATED ENGINEERS, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
P.O. BOX 1618, SILVER SPRING, MARYLAND 20910  
TEL. 301 566-7811

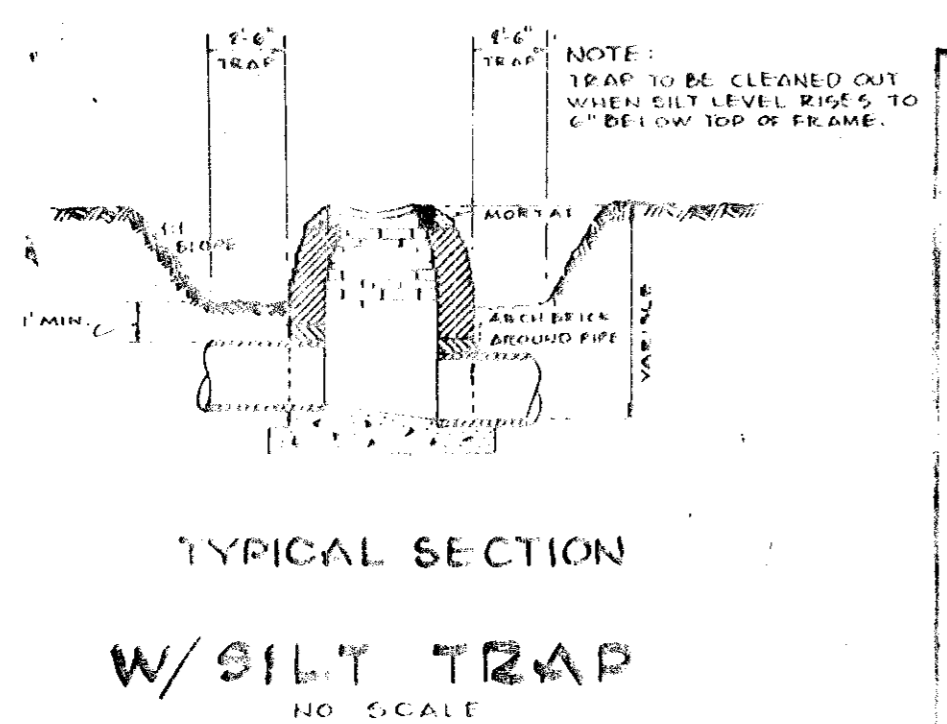
DATE: AUG. 1, 1973  
REVISED: MAY 15, 1974 7/15/74

Job No: 1915-B  
Sheet No: G-1

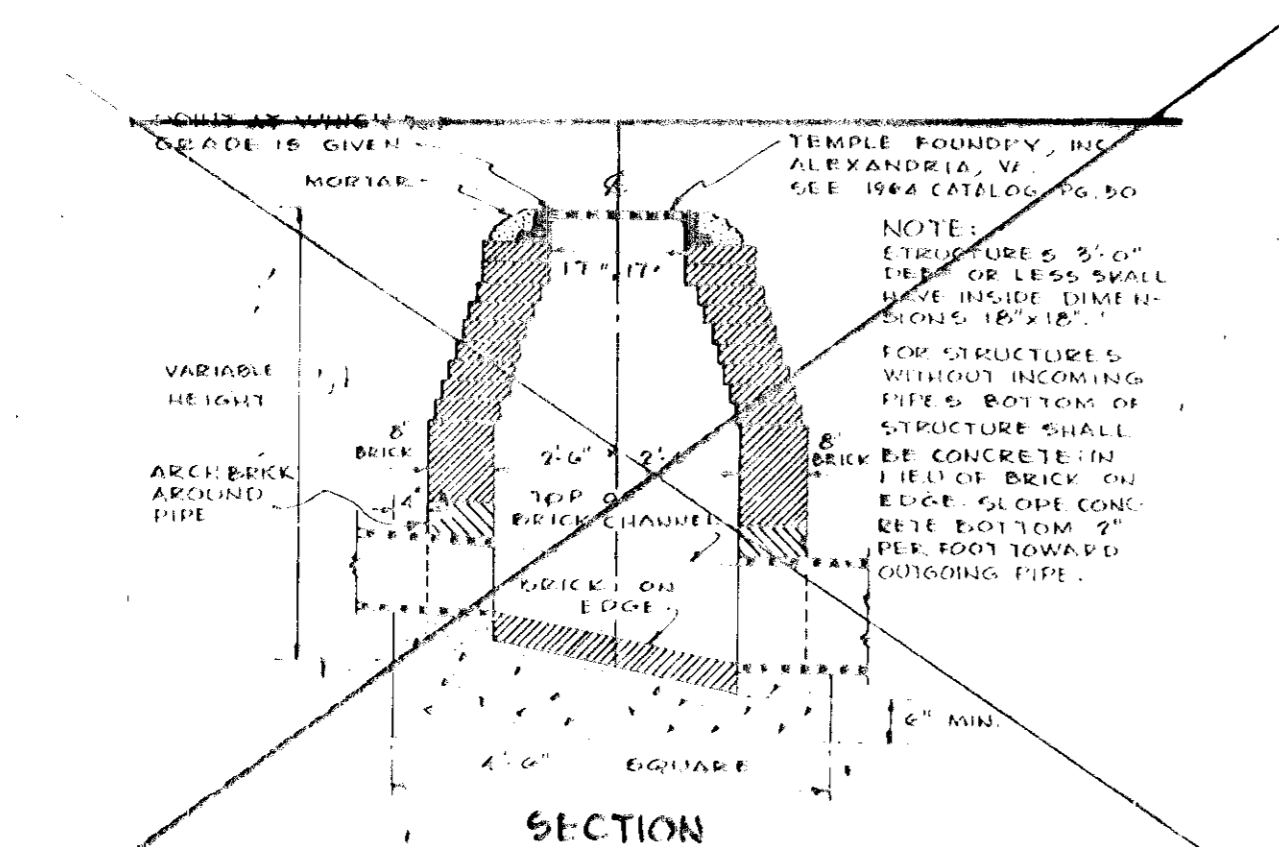




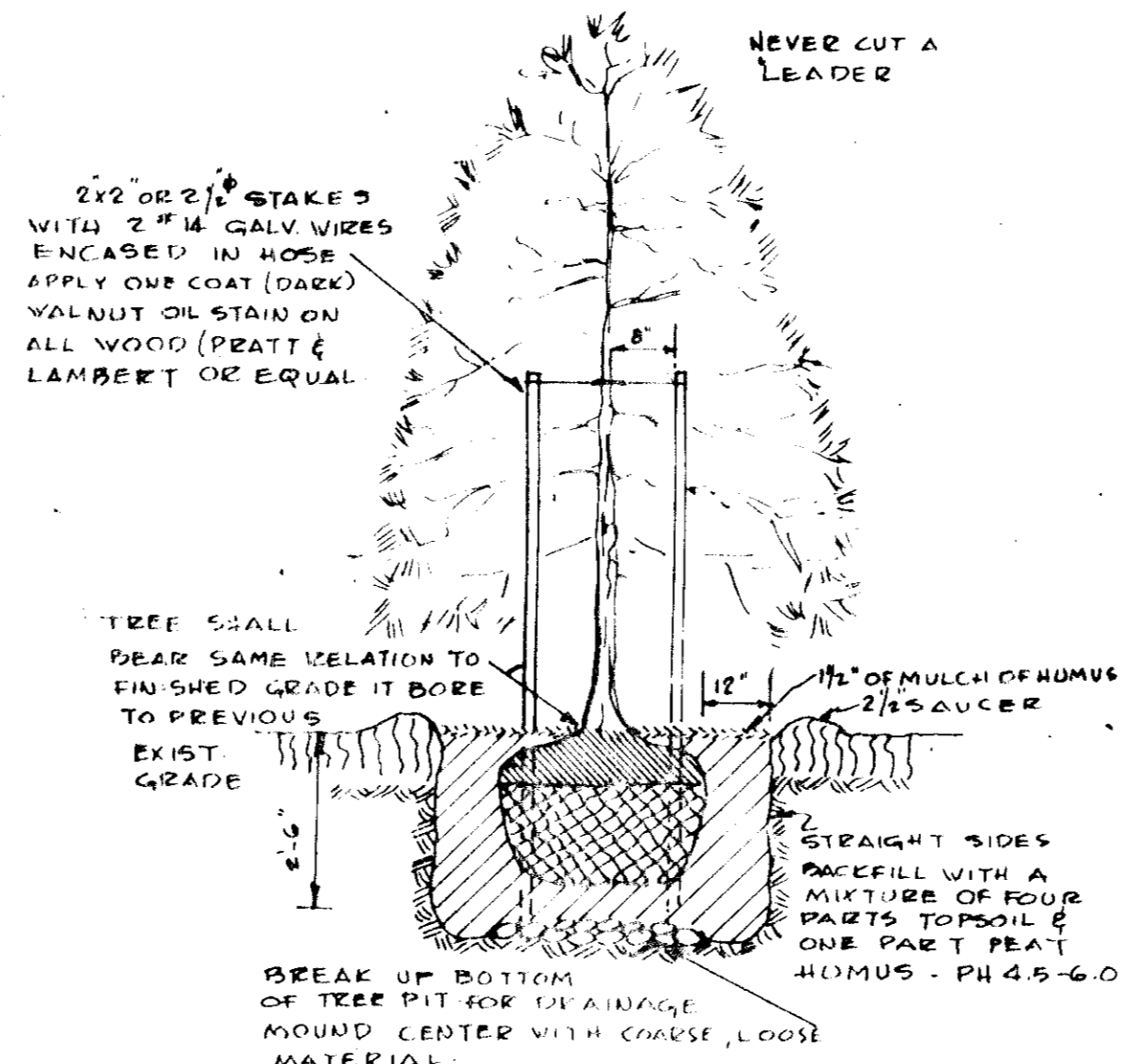
**DETAIL OF BACKSTOP**  
NO SCALE



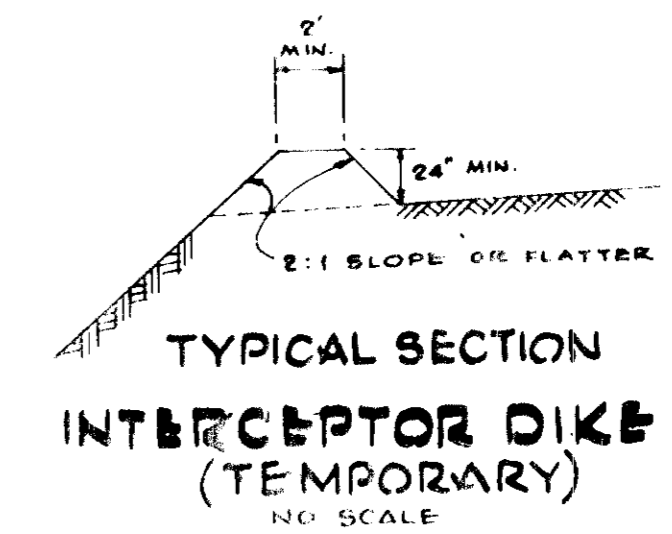
**TYPICAL SECTION  
W/SILT TRAP**  
NO SCALE



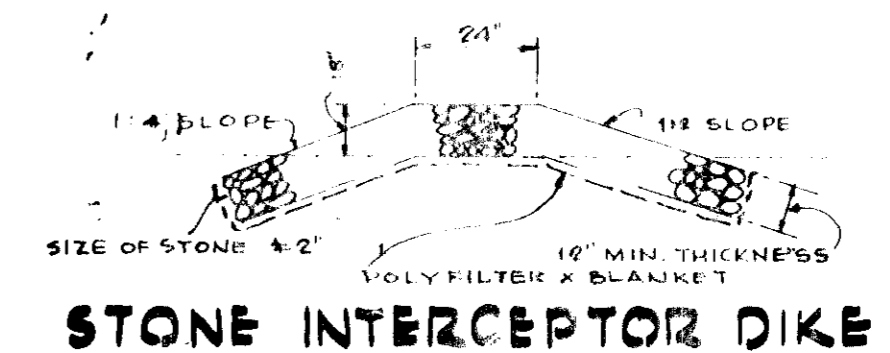
**SPECIAL INLET**  
NO SCALE  
(NOT IN THIS CONTRACT)



**PINE TREE  
PLANTING & STAKING  
DETAIL**



**TYPICAL SECTION  
INTERCEPTOR DIKE  
(TEMPORARY)**  
NO SCALE



**STONE INTERCEPTOR DIKE**

**NOTES:**

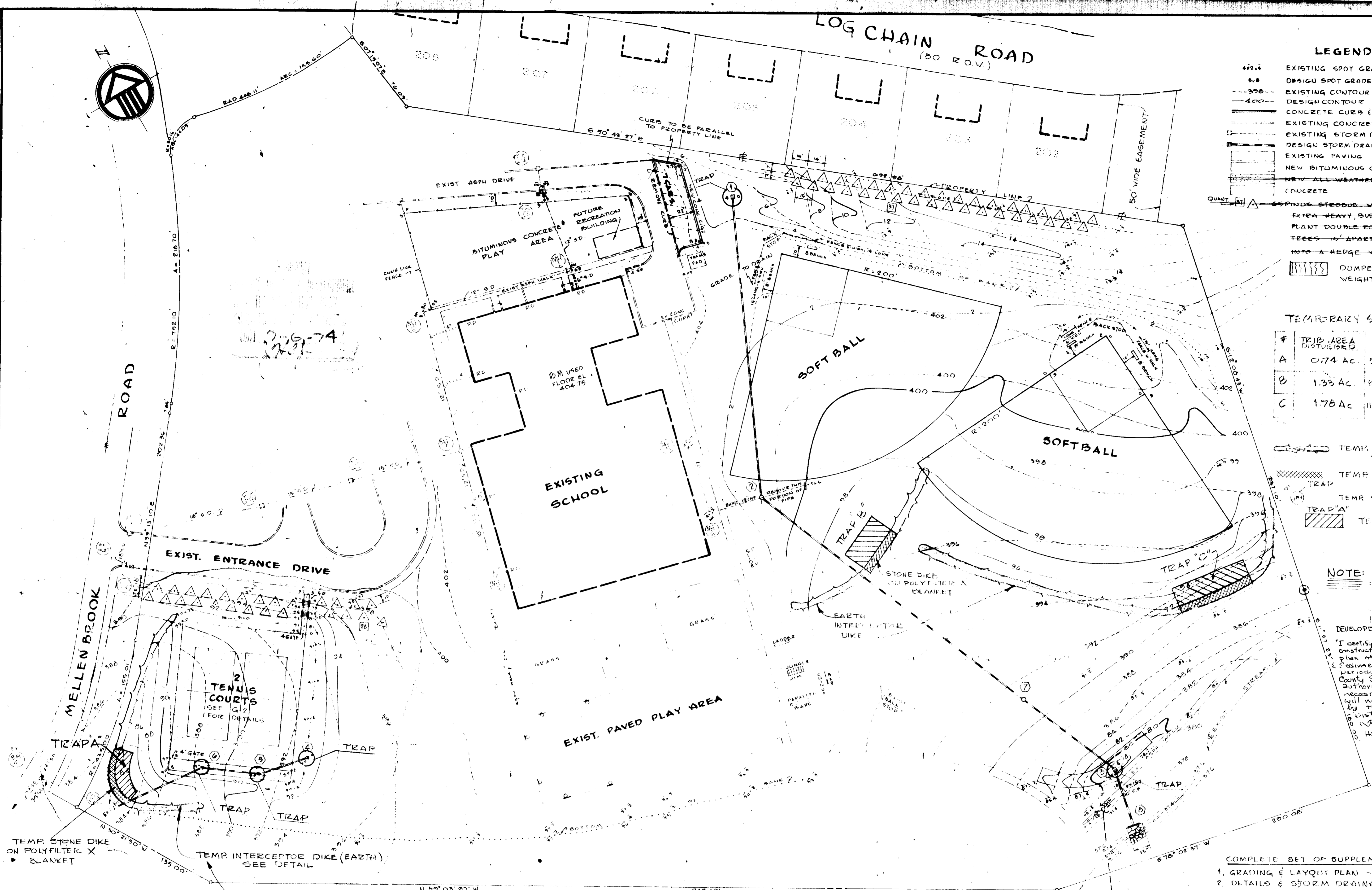
1. Topography based on Field Survey by Associated Engineers, Inc. during May 1973. Floor Elevation of building was used as Bench Mark.
2. All disturbed unpaved areas to be topsoiled, fertilized, limed, seeded and mulched.
3. Lime shall be spread at the rate of one ton per acre in lieu of the requirements given on page 3.700 of the aforesaid standards and specifications for soil erosion.
4. Fertilizer 5-10-10 or equivalent shall be applied at the rate of 1700 lbs. per acre and disc into soil immediately to a depth of 3".
5. Mixture for permanent seeding shall be 225 lbs. per acre of Kentucky K-31 and 25 lbs. per acre of annual Ryegrass.
6. Immediately after seeding, these areas shall be uniformly mulched - refer to page 3.101 of above-mentioned specs. - asphalt mulch tie-down is required. (Refer to page 3.102 of above-mentioned specs.)
7. At all fall slopes construction berms shall be placed at each lift, especially at the end of the day.
8. Design contours shown are finished grades. Allowance in grading shall be made for topsoil to be spread.
9. All material and workmanship for storm drainage, grading and paving shall meet all applicable provisions of the Road Construction Code and Standard Specs of Howard County.
10. No temporary sedimentation measures are to be removed without permission by Soil Conservation District.
11. Grading, topsoiling, seeding and mulching to meet all applicable requirements of the current standard specifications of the Road Construction Code of Howard County and the "Standards and Specifications for Soil Erosion and Sediment Control in Urbanized Areas".
12. Seeding to be performed immediately after final grading.
13. Topsoil depth shall be 3" compacted minimum.
14. Howard County Soil Conservation District shall be notified at least 24 hours prior to the beginning of grading operations.
15. Storm water lines shall be constructed prior to grading but after Silt Traps and Interceptor dikes are in place.
16. Trenches shall be backfilled and impacted on a daily basis.
17. All Sediment Control Measures shall be constructed in accordance with the approved plans and shall be maintained in operation until permission for their removal has been obtained.
18. All excess and unsuitable material shall be removed from the site at no extra cost and in accordance with plans submitted by the contractor for Soil Conservation approval.
19. Any suitable fill material shall be provided by the contractor at no extra cost.
20. Any material to be stock piled shall be placed where directed on the site. A 18" high berm shall surround the pile and a minimum 24" long stone dike laid on polyfilter blanket shall be installed where directed.
21. Existing storm drainage facilities shall be protected against mud and silt by straw bales or other approved methods.

APPROVED FOR PUBLIC/PRIVATE WATER AND PUBLIC/PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER DATE: 10/11/74
APPROVED BY HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR DATE: 10/11/74
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR DATE: 10/11/74

PROJECT # N-4-3032

REVISED - NOV. 1, 1974 - TENNIS COURTS OMITTED

TAUNDER HILL ELEMENTARY SCHOOL RECREATION CENTER	ASSOCIATED ENGINEERS, INC. REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS 1000 W. CALLE FRENCH ST. SUITE 103 BETHESDA, MARYLAND 20810 TEL. 301-580-2311	1915-B SHEET NO. G-3
DETAILS & NOTES	DATE AS NOTED DATE: AUG. 1, 1973 REVISED: MAY 15, 1974 - 1/15/74	



### LEGEND

- 492.6 EXISTING SPOT GRADE
- 5.0 DESIGN SPOT GRADE
- EXISTING CONTOUR
- DESIGN CONTOUR
- CONCRETE CURB & GUTTER - NEW
- EXISTING CONCRETE CURB & GUTTER
- EXISTING STORM DRAIN & STRUCTURE
- DESIGN STORM DRAIN & STRUCTURE
- EXISTING PAVING
- NEW BITUMINOUS CONCRETE
- NEW ALL WEATHER SURFACE CONCRETE

QUANT: 65 POUNDS STEEL ROD WHITE PINE 5/4" x 6" x 8" (MIN. SIZE)  
 EXTRA HEAVY BUSHY STOCK FOR SCREEN PLANTING  
 PLANT DOUBLE ROW STAGGERED - ROWS 7'6" APART  
 TREES 12' APART THIS PLANTING CAN BE PRUNED INTO A HEDGE WHEN TREES GROW TOGETHER  
 DUMPED, UNGROUTED RIP-RAP - MIN WEIGHT OF STONES 80 TO 100 LBS.

### TEMPORARY SEDIMENT TRAP CAPACITIES

#	TRAP AREA DISTURBED	VOL	WIDTH	LENGTH	DEPTH
A	0.74 AC	80 cu yds	10'	45'	3.0'
B	1.33 AC	149 cu yds	20'	40'	3.0'
C	1.78 AC	119 cu yds	15'	65'	3.0'

- TEMP. EARTH INTERCEPTER DIKE SEE DETAIL G-3
- TEMP. STONE DIKE ON POLYFILTER X BLANKET
- TEMP. SILT TRAP AT PERMANENT STRUCTURE
- TEMPORARY SEDIMENT TRAP MSRC STD 264-11

**NOTE:** THIS PLAN - SHOWS ONLY EROSION AND SEDIMENT CONTROL MEASURES FOR THE DEVELOPER'S CERTIFICATION. I certify that all development and/or construction will be done according to this plan as development and/or erosion and sediment control, and I also authorize procedures on site inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made, unless authorized by the Howard County Soil Conservation District.  
 Howard L. Schaefer, November 13, 1974  
 HOWARD COUNTY DATE

- COMPLETE SET OF SUPPLEMENTAL SITE PLANS CONSISTS OF:
1. GRADING & LAYOUT PLAN - G-1
  2. DETAILS & STORM DRAINAGE PROFILES - G-2
  3. DETAILS & NOTES - G-3
  4. SEDIMENT CONTROL PLAN - G-4
- ABOVE PLANS SERVE AS SUPPLEMENT TO APPROVED SITE PLANS S.D.P. 70-02

THUNDER HILL ELEMENTARY SCHOOL  
 VILLAGE OF OAKLAND MILLS  
 6TH ELECTION DISTRICT  
 ZONING - R-20  
 OWNER: BOARD OF EDUCATION - HOWARD COUNTY, MD  
 PROJ. RECORDED: LIBER. W.H. 392, FOLIO 732

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

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 HOWARD S.C.D.

SCALE: 1" = 40'

**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 requirements of the Howard County Conservation Department.  
 HANS A. RUNOW, Nov. 12, 1974, DATE  
 REVIEWED FOR: \_\_\_\_\_ NAME \_\_\_\_\_ DATE \_\_\_\_\_  
 AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: \_\_\_\_\_ DATE \_\_\_\_\_  
 SOIL CONSERVATION SERVICE

APPROVED: FOR PUBLIC/PRIVATE WATER AND PUBLIC/PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE 12/14/74

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: \_\_\_\_\_ DATE 12/4/74  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING: \_\_\_\_\_ DATE 11/4/74

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: \_\_\_\_\_ DATE 11/11/74  
 CHIEF, BUREAU OF HIGHWAYS

PROJECT # N-4-3032

REVISED NOV. 1, 1974 - OMITTED TENNIS COURT.

**THUNDER HILL ELEMENTARY SCHOOL RECREATION CENTER**

**ASSOCIATED ENGINEERS, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8007 SIXTEENTH STREET  
 SILVER SPRING, MARYLAND 20910  
 TEL. 301-588-7311

PROJECT NO. 1915-B

SHEET NO.

**SEDIMENT CONTROL PLAN**

DATE AS SHOWN  
 DATE AUG 1, 1973  
 REVISION JULY 15, 1974

G-4