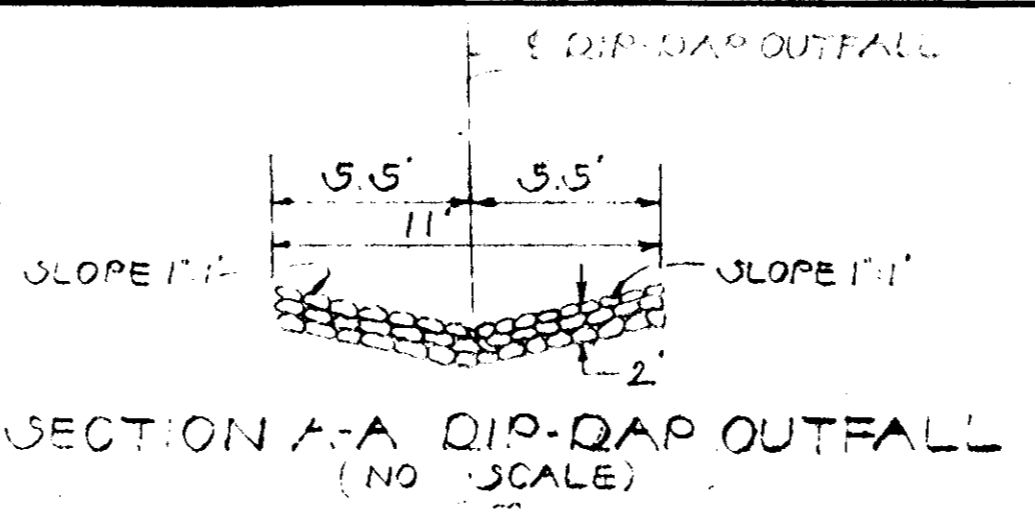
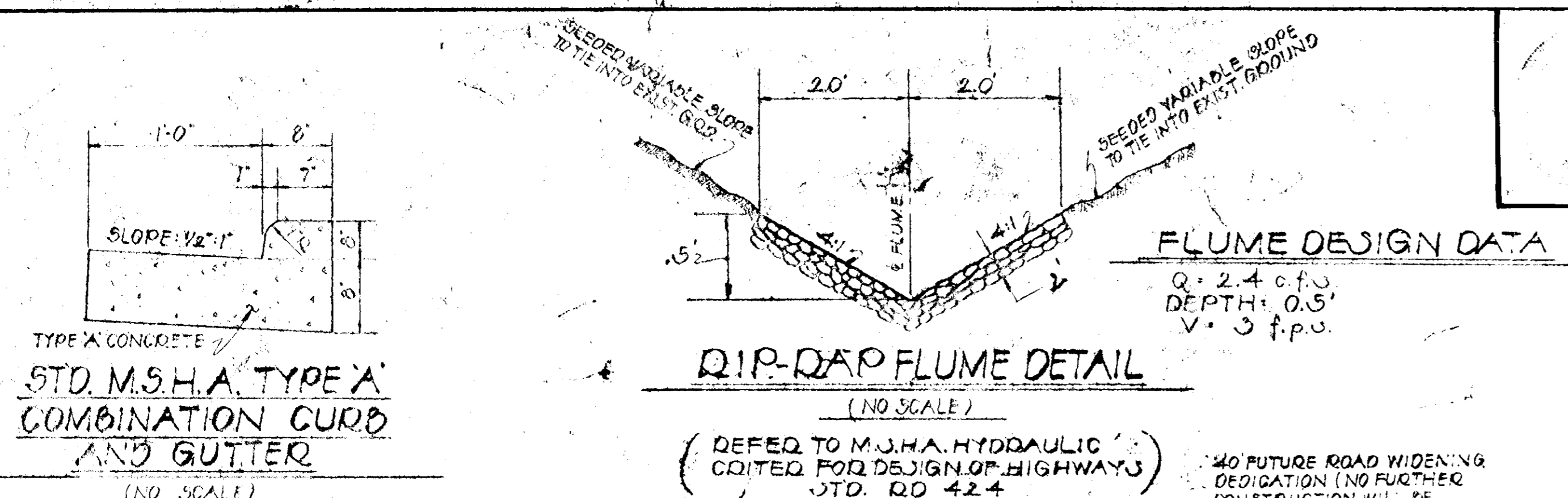
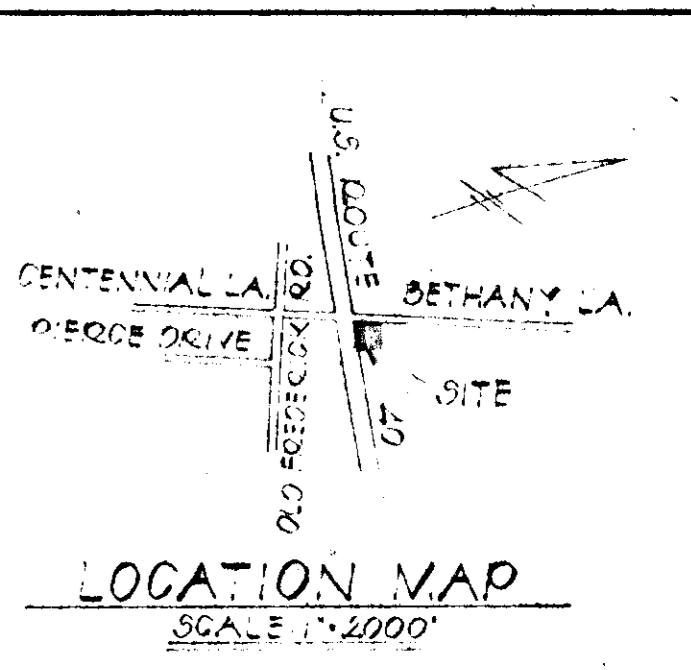


ENGINEER'S CERTIFICATION
 I CERTIFY THAT THE PLAN OF DEVELOPMENT AND THE PLAN FOR CONTROL OF SILT AND EROSION MEET THE REQUIREMENTS, STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY CONSERVATION DISTRICT.
 Robert E. Spillman (SIGNATURE) 2-18-76 (DATE)

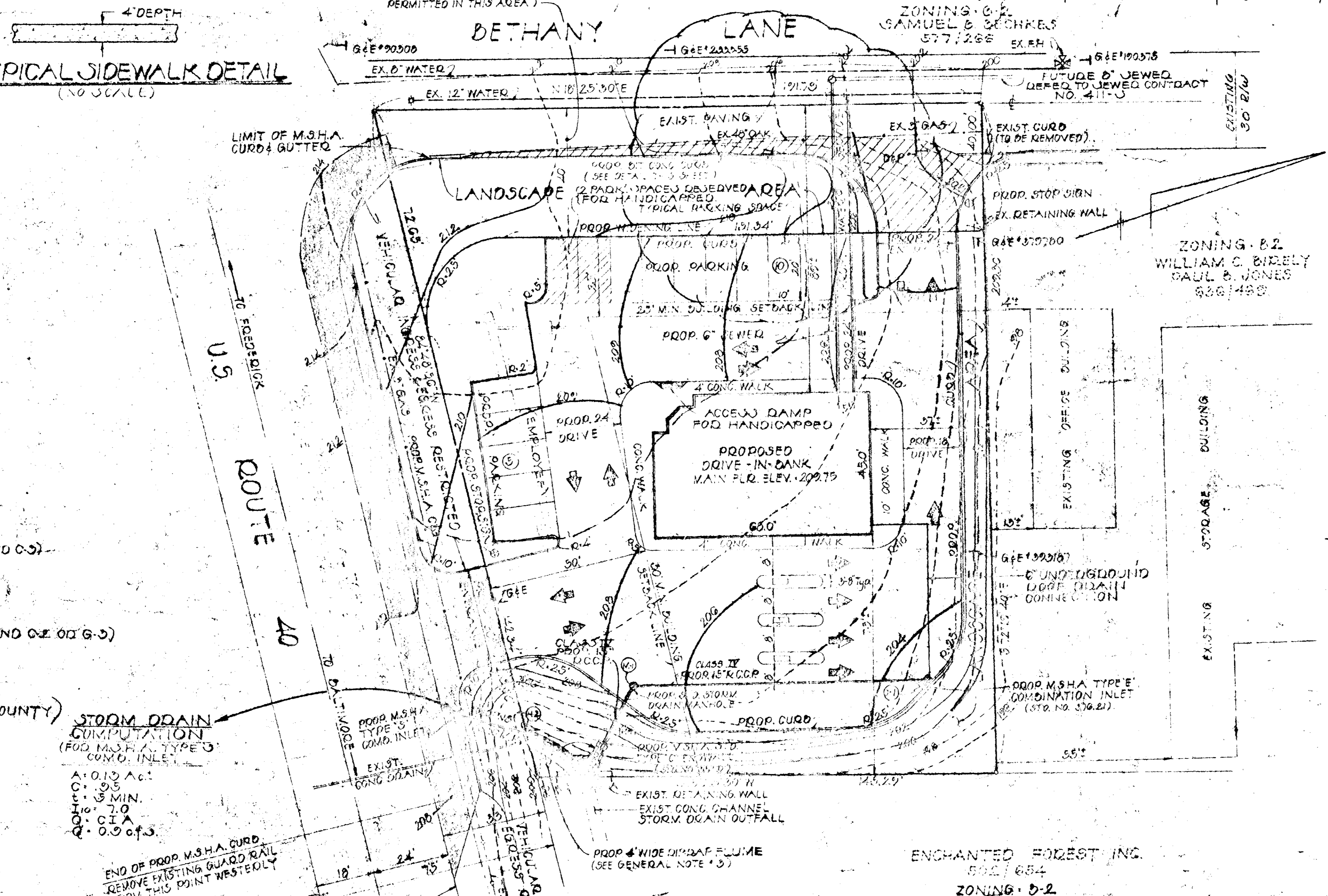
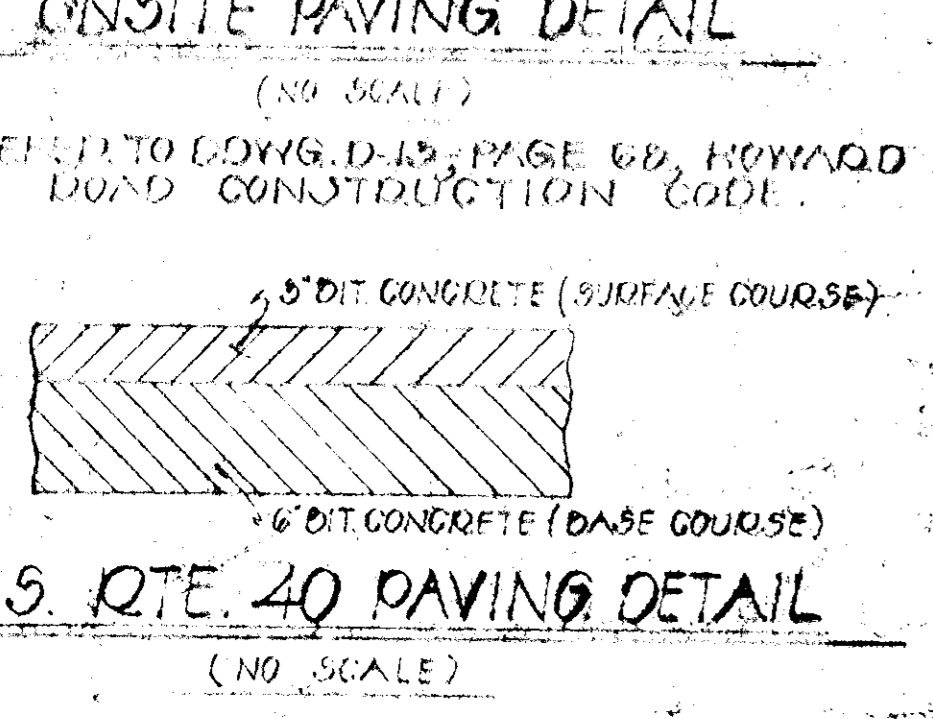
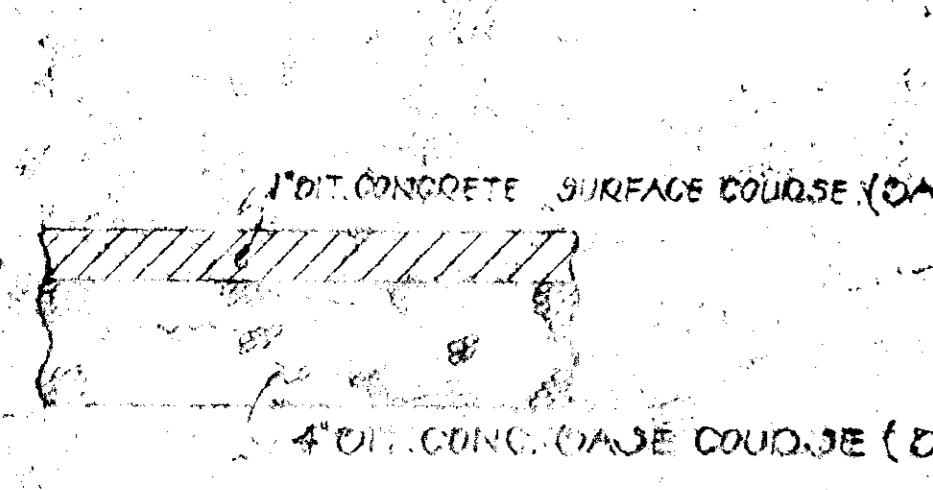
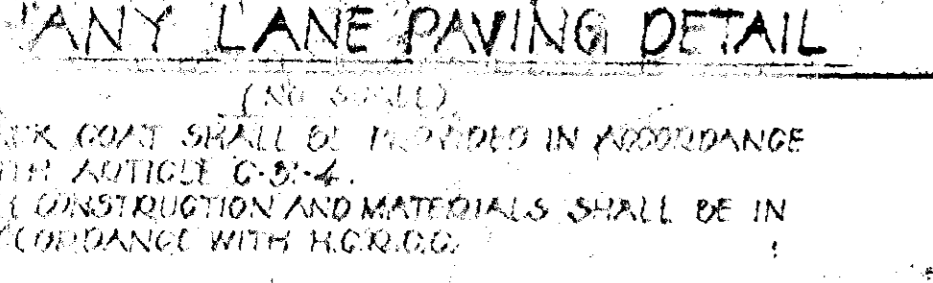
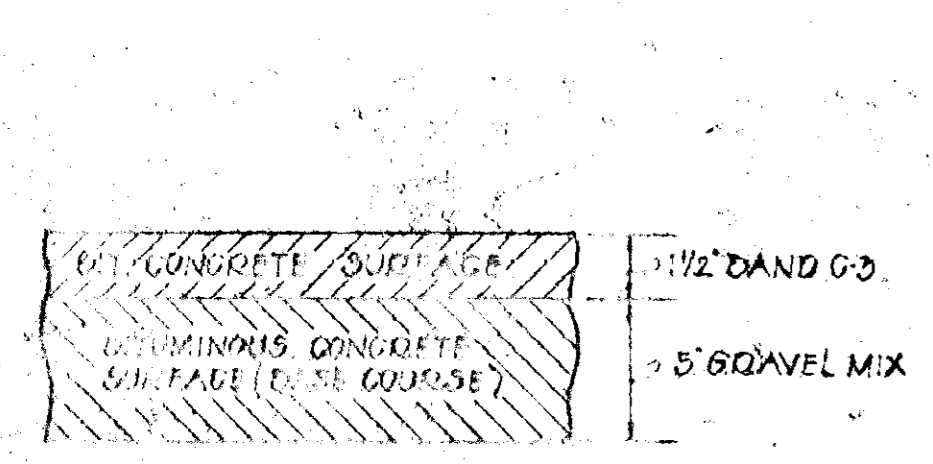
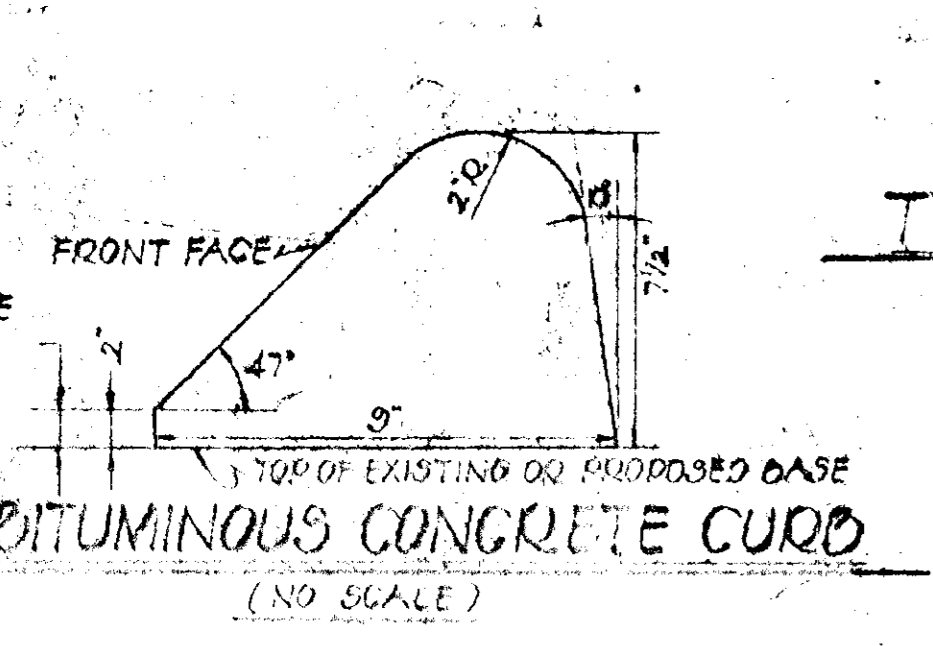
DEVELOPER'S CERTIFICATION
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF SILT & SEDIMENT CONTROL.
 Charles N. Jones (SIGNATURE) 2-18-76 (DATE)



STORM DRAINAGE DATA

DEFECT TO THE OWNER: CONTROL PLAN FOR THIS PROJECT IS TO BE DONE ACCORDING TO THE FOLLOWING STORM DRAINAGE COMPUTATIONS:

AREA "A"	AREA "B"
DRAINAGE AREA: 0.24 AC.	DRAINAGE AREA: 0.37 AC.
C FACTOR: 0.5	C FACTOR: 0.5
TIME OF CONCENTRATION: 5 MIN.	TIME OF CONCENTRATION: 5 MIN.
INTENSITY (10 YR. STORM): 7.0	INTENSITY (10 YR. STORM): 7.0
Q ₁₀ = 0.14	Q ₁₀ = 0.14
Q ₁₀ = 0.5 x 7 x 4	Q ₁₀ = 0.5 x 7 x 0.37
Q ₁₀ = 2.4 cfs.	Q ₁₀ = 2.2 cfs.



- SITE ANALYSIS**
1. AREA OF PARCEL: 0.0098 AC.
 2. EXISTING ZONING: B-2
 3. TOTAL NO. OF EMPLOYEES: 8
 4. TOTAL FLOOR SPACE: 3,055 SF
 5. TOTAL NO. OF PARKING SPACES REQUIRED: 4 SPACES PER 2 EMPLOYEES = 8 SPACES
 6. TOTAL NO. OF PARKING SPACES PROVIDED: 15 SPACES
 7. WATER SERVICE TO SUBJECT SITE TO BE PROVIDED BY EXISTING PUBLIC WATER MAIN IN BETHANY LANE.
 8. SEWERAGE SERVICE FOR SUBJECT SITE IS TO BE PROVIDED BY A PUBLIC SEWER CONNECTION. (DEFECT TO CONTD. 411-3)
 9. INSTALLATION OF TRAFFIC CONTROL DEVICES, SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 7TH EDITION.
 10. a) TOTAL AREA TO BE VEGETATED: 0.245 AC.
 b) LEFT NATURAL: 0
 c) OF ROOF & PAVEMENT: 0.307 AC.

- CONSTRUCTION SCHEDULE**
1. FIRST PHASE: ALL EROSION CONTROL AND SITE GRADING. TIME PERIOD: 1 WEEK.
 2. SECOND PHASE: CONSTRUCTION OF ALL ON-SITE STORM DRAINAGE WORK & PLACEMENT OF ON-SITE COULCHED CURB FOR ST. GUTTER PAVING. TIME PERIOD: 2 WEEKS.
 3. THIRD PHASE: BUILDING CONSTRUCTION, UTILITY WORK, PAVING & LANDSCAPING. TIME PERIOD: 4 MONTHS.

- GENERAL NOTES:**
1. ALL MARYLAND STATE HIGHWAY STORM DRAIN & ROADWAY CONSTRUCTION IS TO BE DONE IN ACCORDANCE WITH THE MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS & SPECIFICATIONS.
 2. ALL ROADWAY CONSTRUCTION IN BETHANY LANE IS TO BE DONE IN ACCORDANCE WITH THE HOWARD COUNTY HIGHWAY CONSTRUCTION STANDARDS & SPECIFICATIONS.
 3. THE PROPOSED DIP-DAP FLUME AT THE STORM DRAIN OUTFALL NEAR THE SOUTHEAST CORNER OF THE PROPERTY IS TO BE CONSTRUCTED ACCORDING TO THE DETAIL AS SHOWN ON THIS SHEET & SHALL BE TIED INTO THE DRAINAGE OUTFALL & DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER IN THE FIELD.
 4. SIZE OF PARKING SPACES: 10' x 20' (TYPICAL)
 5. THE PARKING & DRIVEWAY AREAS SHOWN ON THIS PLAN ARE FOR PRIVATE USE ONLY.
 6. BASE WILL BE DONE IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 7. DEFECT TO ARCHITECTURAL PLANS FOR METHOD STORM WATER DISPOSAL VIA ROOF DRAINS.
 8. ALL STORM WATER RUNOFF FROM THE SUBJECT SITE WHICH FLOWS TOWARD BETHANY LANE (DESCRIBED AS AREA "B") WILL BE HANDLED AS GUTTER FLOW ALONG THE EAST SIDE OF BETHANY LANE UNTIL IT OUTFALLS IN THE EXIST. STORM WHICH CROSSES UNDER BETHANY LANE NORTH OF THE SUBJECT SITE.

STRUCTURE SCHEDULE

NO.	TYPE	SIZE	TOP	INVERT
I-1	M.S.H.A. TYPE 'E' INLET	15"	204.0	200.00
H-1	M.S.H.A. TYPE 'C' ENDWALL	15"	—	197.00
H-2	—	10"	—	197.50
M-1	STO. M4	15"	207.2	199.00

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE: 1-19-76

SITE DEVELOPMENT PLAN
 PART OF
BIRELY-JONES PROPERTY
 BALTIMORE NATIONAL PIKE & BETHANY LANE
 2ND DISTRICT - TAX MAP 024, PARCELS 15 - HOWARD CO., MD.
 SCALE: 1" = 20'
 DATE: FEB. 17, 1975
 SHEET NO. 1 OF 3
 REV. 12-30-75
 REV. 2-13-76
 RECORDED IN PLAT BOOK 31, FOLIO 8

DEVELOPER	OWNER
THE CITIZENS NATIONAL BANK LAUREL, MD.	WILLIAM C. BIRELY PAUL B. JONES 9402 GRADY AVE. BETHY, MD. 2107

SPILLMAN, LARSON & ASSOC.
 SURVEYORS & CIVIL ENGINEERS
 SUITE 309 INVESTMENT BLDG.
 7040SON, MD. 21204
 843-3535

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 2/18/76

APPROVED: FOR PUBLIC WATER, STORM DRAINAGE SYSTEMS & ROADS.
 HOWARD CO. DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 2/18/76

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE: 2/18/76

GENERAL NOTES:

- ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE SPECIFICATIONS AS SET FORTH IN THE HOWARD COUNTY SEDIMENT CONTROL MANUAL, UNLESS OTHERWISE SPECIFIED.
- THE EROSION CONTROL CONSTRUCTION AS SHOWN ON THIS PLAN IS TO BE COMPLETED AS THE FIRST PHASE OF CONSTRUCTION FOR THIS PROJECT.
- AS SOON AS POSSIBLE AFTER THE SITE GRADING IS COMPLETED THE SUB-BASE PAVING IS TO BE INSTALLED ALONG WITH THE STORM DRAINAGE SYSTEM & ON-SITE CULDS. IN ORDER TO REDUCE THE SOIL EROSION PROBLEM FOR THE REMAINDER OF THE CONSTRUCTION PERIOD, THE ON-SITE CULDS WILL BE INSTALLED AS THE DIVERSION DEEM IS REMOVED IN ORDER TO PROVIDE CONTINUAL SLOPE PROTECTION ON THE NORTH AND EAST SIDES OF THE SITE.
- THE SITE GRADING FOR THIS PROJECT IS DESIGNED SO THAT THE SITE DRAINAGE ALONG THE BETHANY LANE & U.S. RTE #40 PROPERTY LINES WILL PITCH TOWARD THE NORTHEAST CORNER OF THE SUBJECT TRACT OF LAND WHEREBY NO DIVERSION DEEM OR SEDIMENT CONTROL MEASURES WILL BE REQUIRED ALONG THESE PROPERTY LINES.
- REFER TO THE ARCHITECTURAL LANDSCAPE PLAN FOR ALL PLANTING, LANDSCAPING, & VEGETATIVE GROUND COVERING INFORMATION AND SPECIFICATIONS.
- THE PARKING & DRIVEWAY AREAS SHOWN ON THIS PLAN ARE FOR PRIVATE USE ONLY. (10' X 20' TYPICAL PARKING SPACE.)
- REFER TO THE SITE DEVELOPMENT PLAN DATED 2-17-75 AS PREPARED BY SPELLMAN, LARSON & ASSOCIATES, INC. FOR ALL SITE DEVELOPMENT DETAILS & INFORMATION.

FLUME DESIGN DATA

Q = 2.4 c.f.s.
DEPTH = 0.5'
V = 3 f.p.s.

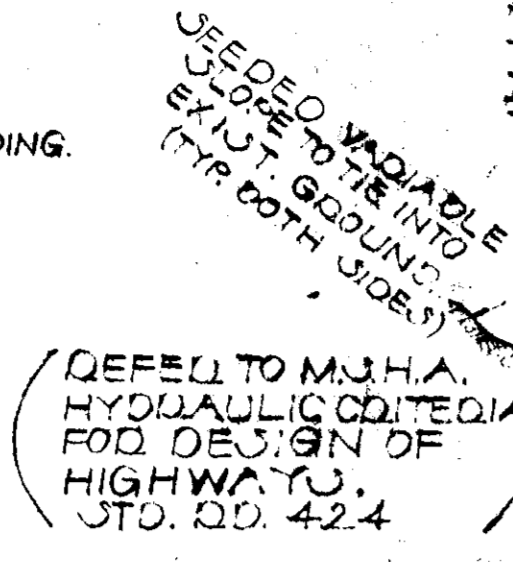
DRAINAGE COMPUTATIONS

(REFER TO DRAINAGE AREA MAP THIS SHEET.)

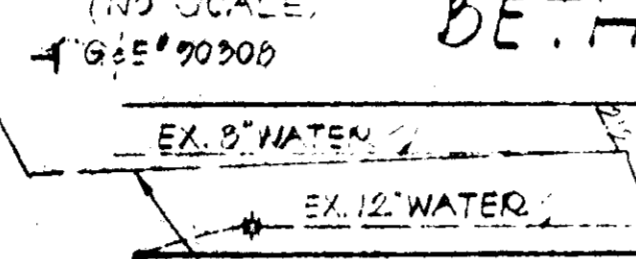
AREA "A"
DRAINAGE AREA: 0.40 Ac.[±]
DISTURBED AREA: 0.40 Ac.[±]
76% FACTOR: 0.55
TIME OF CONCENTRATION: 0.55 MIN.
INTENSITY (10 YEAR STORM): 7.0
THEREFORE:
Q₁₀ = CIA
Q₁₀ = .55 x 7 x .4
Q₁₀ = 1.5 c.f.s.

AREA "B"

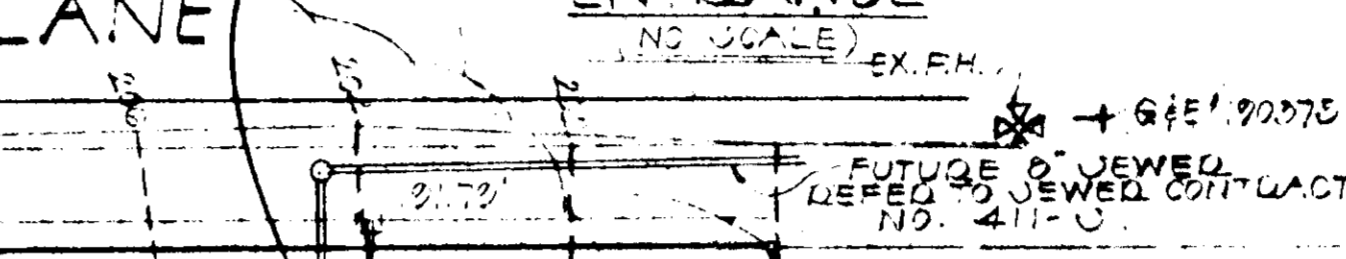
AREA "B" IS NOT ADJACENT TO THE PROPOSED SEDIMENT TRAP. IT WILL FLOW TOWARD BETHANY LANE BY WAY OF THE PROPOSED ENTRANCE AT THE NORTHEAST CORNER OF THE PROPERTY. THE STONE BASE COURSE INSTALLED WITHIN THE APPROX AREA OF THE ENTRANCE WILL ACT AS THE SEDIMENT CONTROL DEVICE FOR THIS AREA. THEREFORE, THE RUNOFF FOR THIS AREA NEED NOT BE COMPUTED.



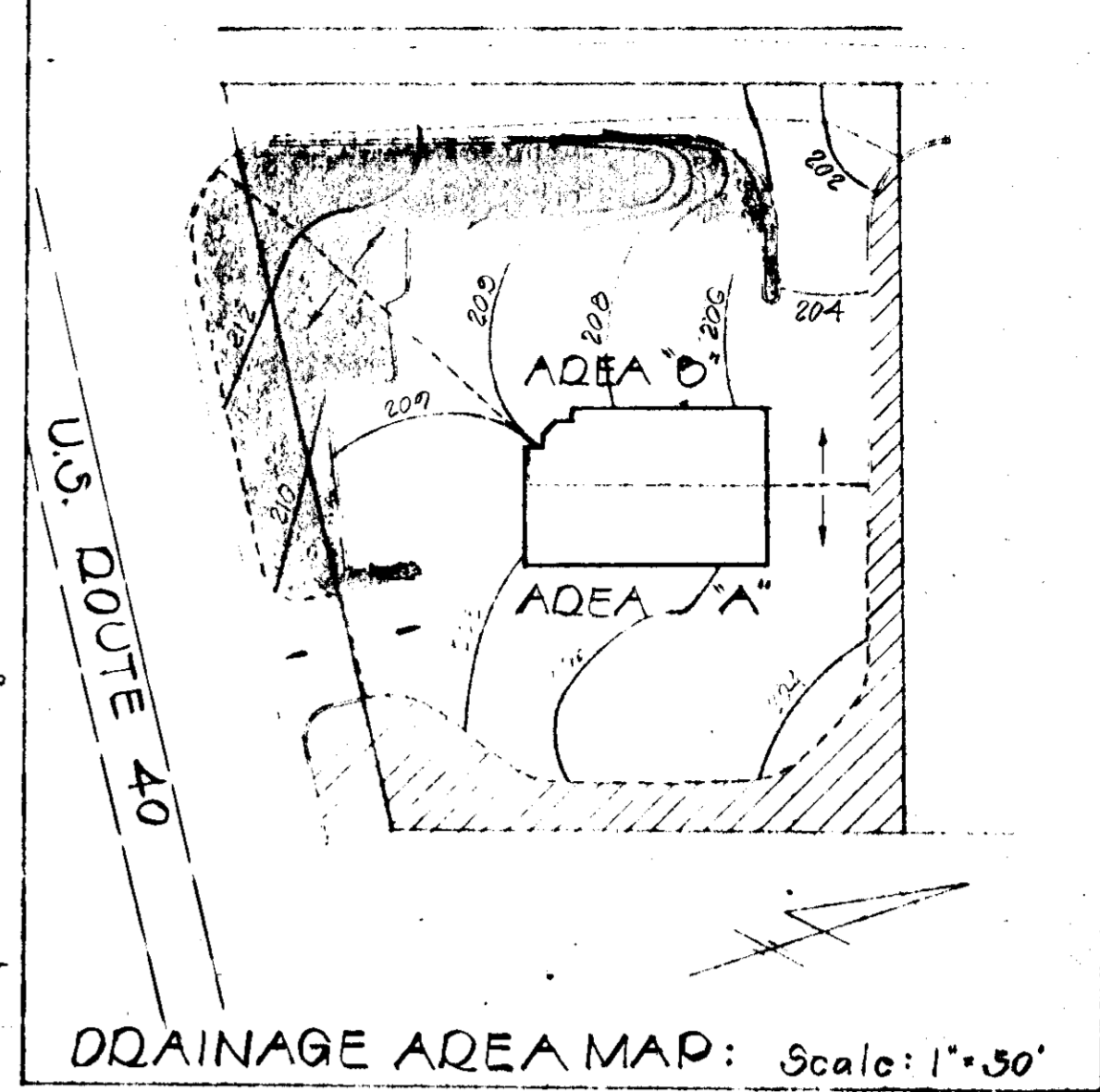
DIP-DAP FLUME DETAIL



STABILIZED CONSTRUCTION ENTRANCE

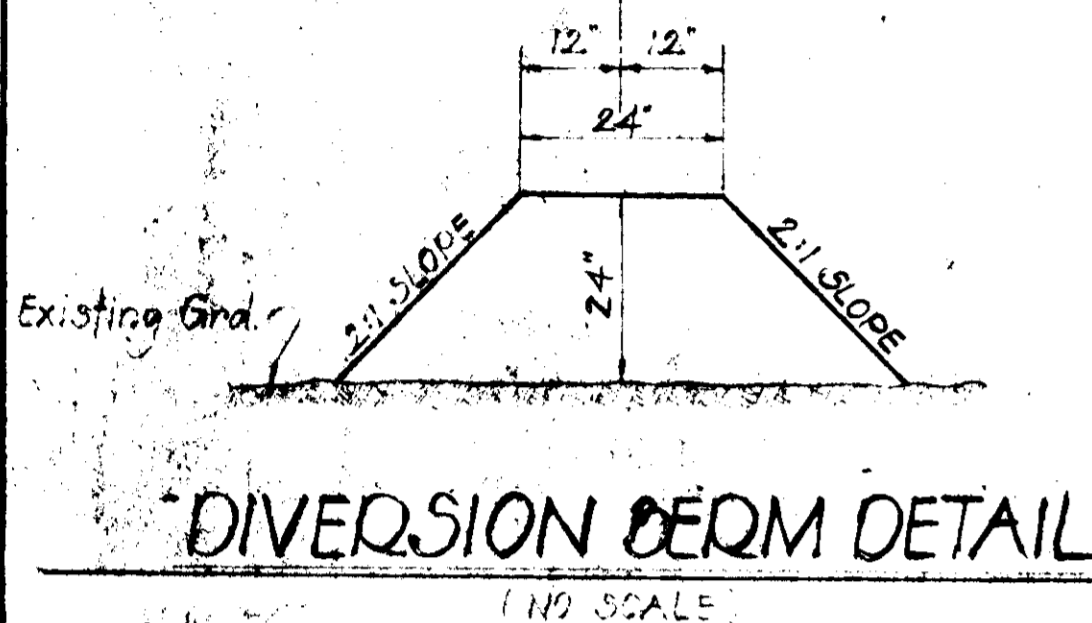


BETHANY LANE



LOCATION MAP

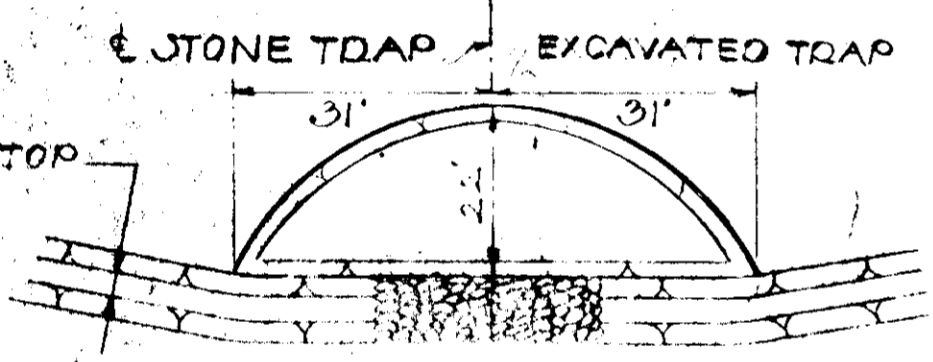
SCALE: 1" = 2000'



DIVERSION BERM DETAIL

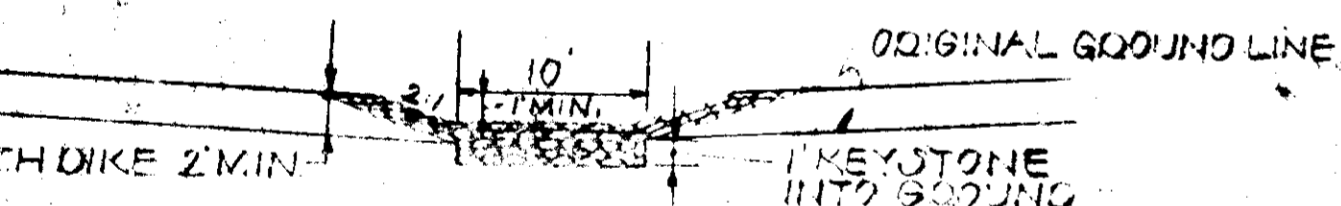
SEDIMENT TRAP NOTE:

THE SEDIMENT TRAP LOCATED NEAR THE NORTHEAST CORNER OF THE SUBJECT PROPERTY WILL BE CONSTRUCTED AS PART OF THE DIVERSION DEEM USING THE SAME DESIGN DETAIL AS SHOWN ABOVE. FOR THE CONSTRUCTION OF THE SEDIMENT TRAP, THE CONTRACTOR WILL USE 4'-6" CURBED STONE IN PLACE OF EARTH FILL.

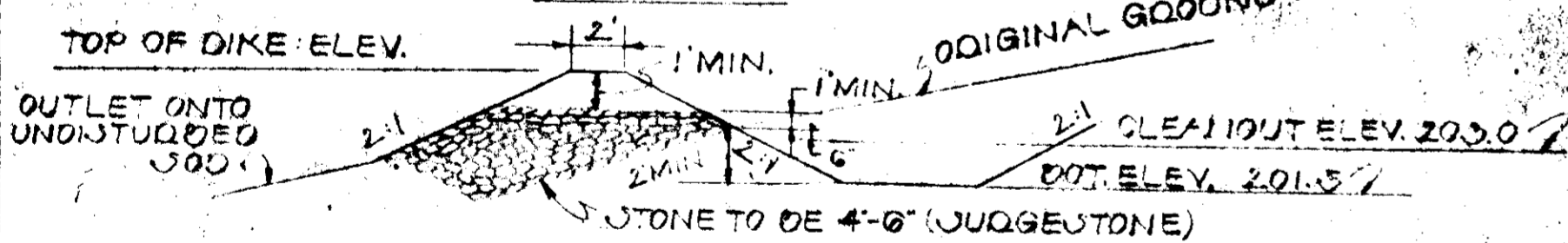


SEDIMENT TRAP COMPUTATIONS
VOLUME REQ'D. AS 1000 c.f./AC Drain Area
1000 x 4
72.0 CU. FT.
VOLUME FOR 4' x 31' SURFACE AREA x
MAXIMUM DEPTH
4 x 31.0 x 3
117.4 CU. FT.

TYPICAL PLAN VIEW



TYPICAL FRONT VIEW



TYPICAL SIDE VIEW

SEDIMENT TRAP DETAILS

SPELLMAN, LARSON & ASSOC.

800 YOUNG & CIVIL ENGINEERS
SUITE 302 INVESTMENT BLDG.
1111 MD. 215.04
222-5525

OWNED BY:
WILLIAM C. BIDELEY
PAUL D. JONES
3402 GRADIN AVE.
BALTO., MD. 21207

DEVELOPED BY:
THE CITIZENS NATIONAL BANK
LAUREL, MD.

DEVELOPER'S CERTIFICATION

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

Charl N. Taylor
(SIGNATURE)

2-18-76
(DATE)

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
Eric V. Herman
(SIGNATURE)
U.S. SOIL CONSERVATION SERVICE
2/26/76
(DATE)

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: Robert W. Zelman
HOWARD CO. S.C.D.
DATE: 2/26/76

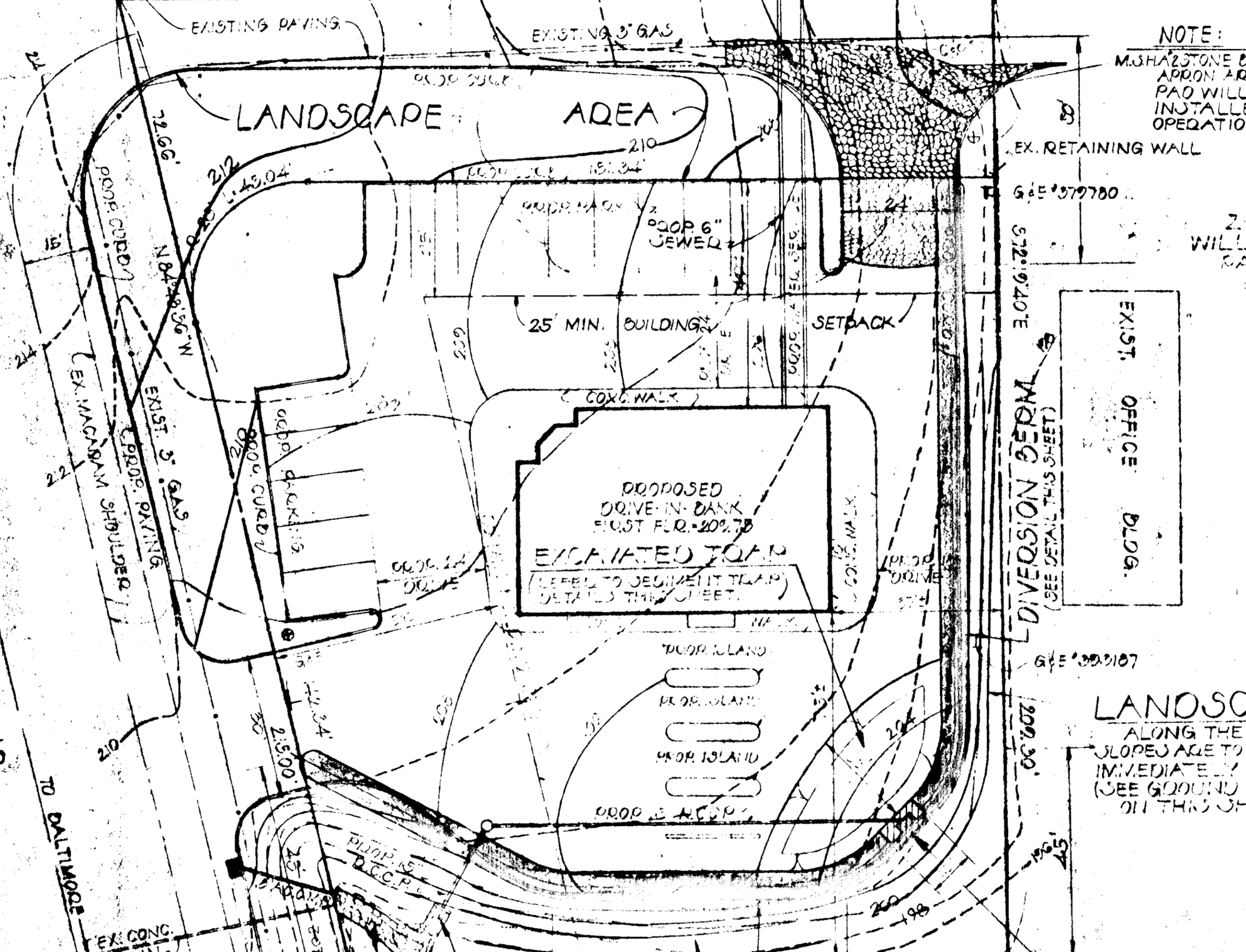
APPROVED FOR PUBLIC WATER, STORM DRAINAGE SYSTEMS & ROADS.
HOWARD CO. DEPARTMENT OF PUBLIC WORKS
DATE: 2/26/76

APPROVED: HOWARD COUNTY OFFICE OF PUBLIC WORKS
DATE: 3/12/76

ENGINEER'S CERTIFICATION

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL DEPENDS ON THE ACCURACY OF THE DATA AND INFORMATION 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 E. Spellman
(SIGNATURE)
2-18-76
(DATE)



NOTE:
MATERIAL BASE COURSE SHALL BE INSTALLED WITHIN THE APPROX AREA FOR A LENGTH OF 50' AS SHOWN. STONE PAV. WILL HAVE MIN. 8% SIDE SLOPE & WILL BE INSTALLED AS PART OF THE INITIAL GRADING OPERATION.

GROUND COVERING SPECIFICATIONS

- REFER TO THE SHADDED AREA ON THE DRAINAGE AREA MAP AS SHOWN ON THIS SHEET FOR THE AREA OF THE SUBJECT SITE WHICH IS TO BE SEEDING.
- REFER TO THE UNSHADDED AREA ON THE DRAINAGE AREA MAP AS SHOWN ON THIS SHEET FOR THE AREA OF THE SUBJECT SITE WHICH IS TO BE SEEDING.
- THE AREA OF THE SUBJECT SITE TO BE SEEDING (UNSHADDED AREA) & THE DIVERSION DEEM ARE TO BE SEEDING ACCORDING TO THE FOLLOWING SPECIFICATIONS:
1) SEEDING MIXTURE TO BE 75% PERENNIAL RYE GRASS & 25% PENN. BLUEGRASS. SEED AT A RATE OF 2 lbs./1000 sq. ft. WHERE SLOPE IN THE UNSHADDED AREAS EXCEEDS 2:1.
2) USE SITE EROSION MAT.
3) FERTILIZER TO BE 10-10-10 FERTILIZER WHICH IS TO BE APPLIED AT THE DATE OF 2/25/76 @ 1000 sq. ft.
4) THE SEEDING AREA IS TO BE LOOSENEED TO A DEPTH OF 2-3" BEFORE APPLYING THE LIME & FERTILIZER TO ALLOW FOR PROPER PENETRATION OF THESE MATERIALS.
5) THE SEEDING AREA IS TO BE COVERED BY MULCHING AT A RATE OF 2 lbs./1000 sq. ft. TO PROPERLY PROTECT THE SEEDING AREA.
6) REFER TO LANDSCAPE PLAN (L-1) DATED 12-10-74, DEVELOPED BY SPELLMAN, LARSON & ASSOCIATES, INC. FOR SEEDING SPECIFICATIONS.

CONSTRUCTION SCHEDULE

- FIRST PHASE:** ALL SEDIMENT CONTROL AND SITE GRADING. TIME PERIOD - 1 WEEK.
- SECOND PHASE:** CONSTRUCTION OF ALL ON-SITE STORM DRAINAGE WORK AND CONSTRUCTION OF ON-SITE CULDS & GUTTERS AND PLACEMENT OF ON-SITE CONCRETE PAVING COURSE. TIME PERIOD - 2 WEEKS.
- THIRD PHASE:** BUILDING CONSTRUCTION, UTILITY WORK, PAVING & LANDSCAPING. TIME PERIOD - 4 MONTHS.

SITE ANALYSIS

- TOTAL AREA TO BE VEGETATED = 0.243 Ac.[±]
- " LEFT NATURAL = 0
- " OF ROOF & PAVEMENT = 0.667 Ac.[±]
- TOTAL AREA OF SITE = 0.890 Ac.[±]

SEDIMENT CONTROL PLAN

PART OF
BIDELEY-JONES PROPERTY
BALTIMORE NATIONAL BLDG. & BETHANY LANE
2ND DISTRICT - TAKEMARKS PARCEL IN HOWARD CO. MD.
SCALE: 1" = 20'

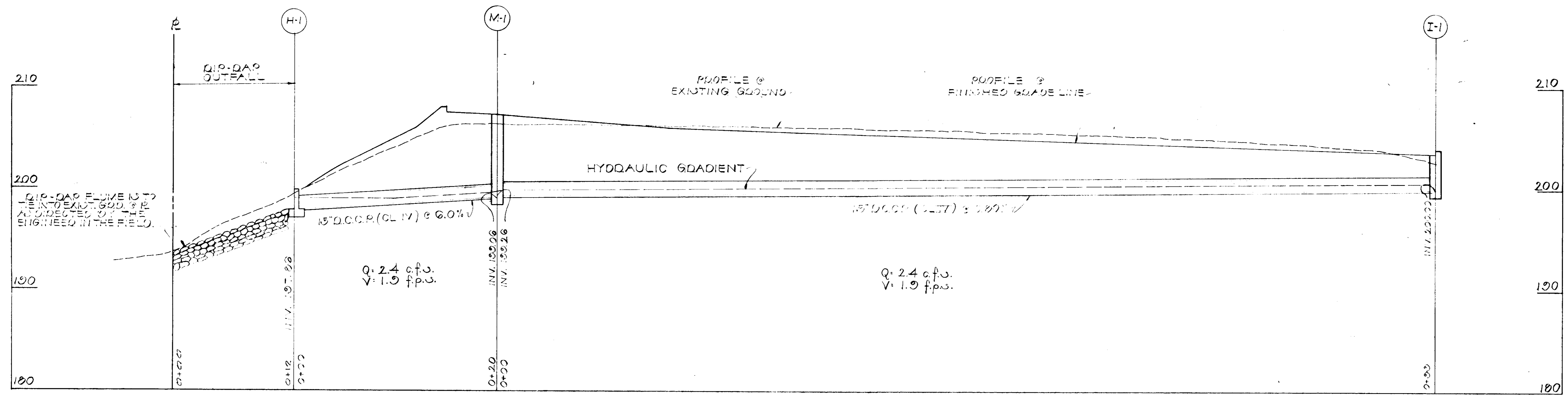
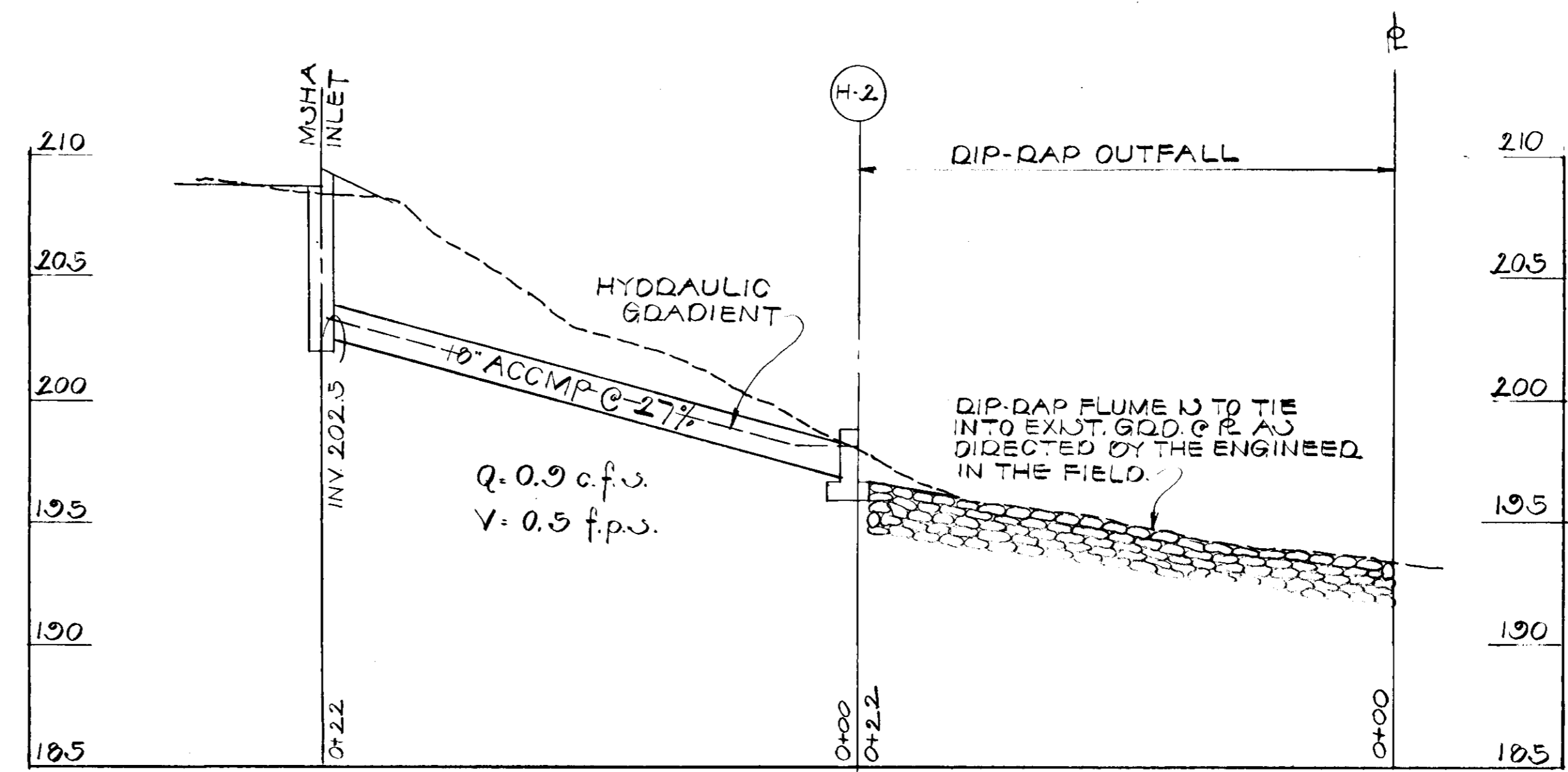
SHEET NO. 2 OF 2

DEVELOPER'S CERTIFICATION
 I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF SILT & SEDIMENT CONTROL.

Charles N. Taylor
 (SIGNATURE) 2-18-76
 (DATE)

ENGINEER'S CERTIFICATION
 I CERTIFY THAT THE PLAN OF DEVELOPMENT AND THE PLAN FOR CONTROL OF SILT & EROSION MEETS THE REQUIREMENTS, STANDARDS & SPECIFICATIONS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Robert E. Spellman
 (SIGNATURE) 2-18-76
 (DATE)



GENERAL NOTE:
 REFER TO THE SITE DEVELOPMENT PLAN FOR THIS PROJECT FOR GENERAL SITE DEVELOPMENT DATA & INFORMATION & STORM DRAIN FLOW EVALUATION.

PROFILE:
 SCALE: HORIZ. 1" = 5'
 VERT. 1" = 5'

STORM DRAIN PROFILE PLAN

— PART OF —
SIRELY - JOHNS PROPERTY

SCALE: HORIZ. 1" = 5'
 SHEET NO. 3 OF 3

HOWARD CO., MD.
 NOVEMBER 4, 1975
 DESIGNED 12-30-75
 2-13-76

APPROVED
 DIVISION OF LAND DEVELOPMENT
 AND TRANSPORTATION PLANNING
 HOWARD COUNTY, MARYLAND
 DATE 1-19-76

SPELLMAN, LARSON & ASSOC.
 CIVIL ENGINEERS & LAND SURVEYORS
 SUITE 303 INVESTMENT BLDG.
 TOWSON, MARYLAND 21204
 410-293-2935

APPROVED: FOR PUBLIC WATER AND PUBLIC WASTEWATER SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 3/11/76
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 3-12-76
 PLANNING OFFICER DATE
 APPROVED: FOR PUBLIC WATER, STORM DRAINAGE SYSTEM & GRADES
 HOWARD CO. DEPT. OF PUBLIC WORKS
[Signature] 3/11/76
 DATE
[Signature] 3/11/76
 CHIEF ENGINEER OF HIGHWAYS DATE