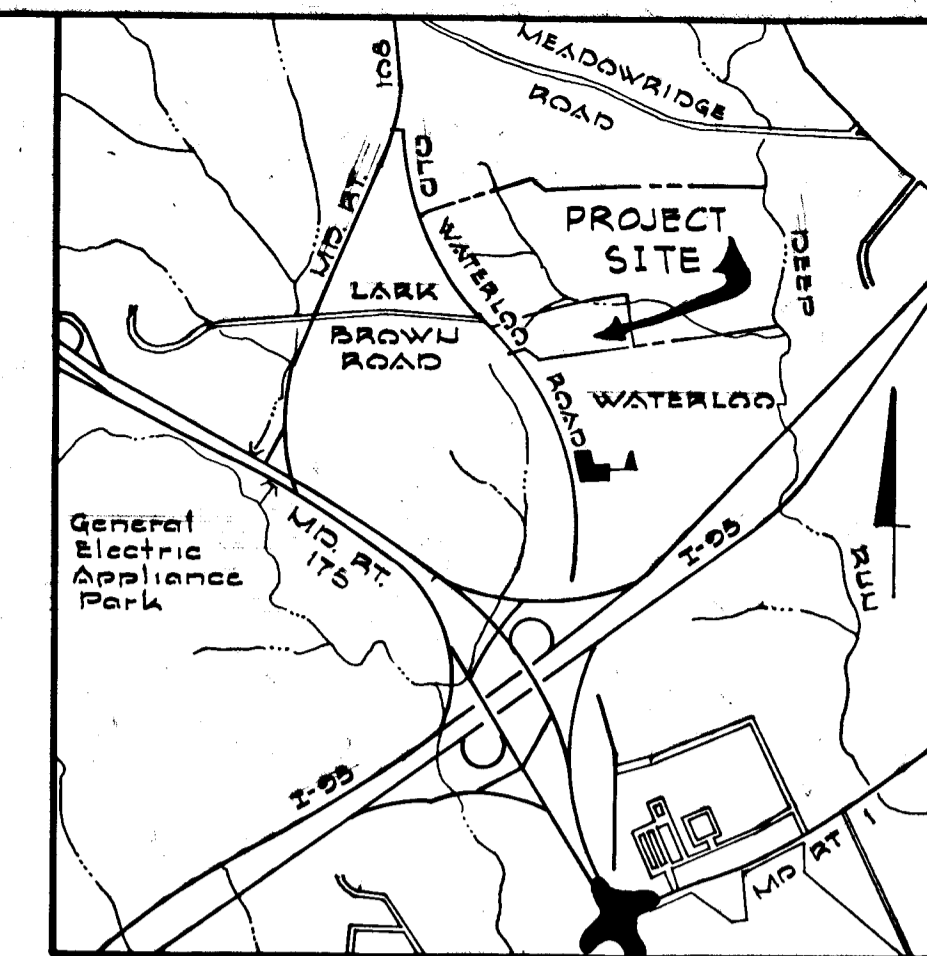


SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN, PROFILE, AND DETAIL
3	PLAN, PROFILE, AND DETAIL
4	STORM DRAIN PROFILE AND DETAIL
5	DRAINAGE AREA MAP
6	SEDIMENT CONTROL MAP
7	SEDIMENT CONTROL
8	LANDSCAPE PLAN

**DEVELOPMENT SUMMARY
SECTION I**

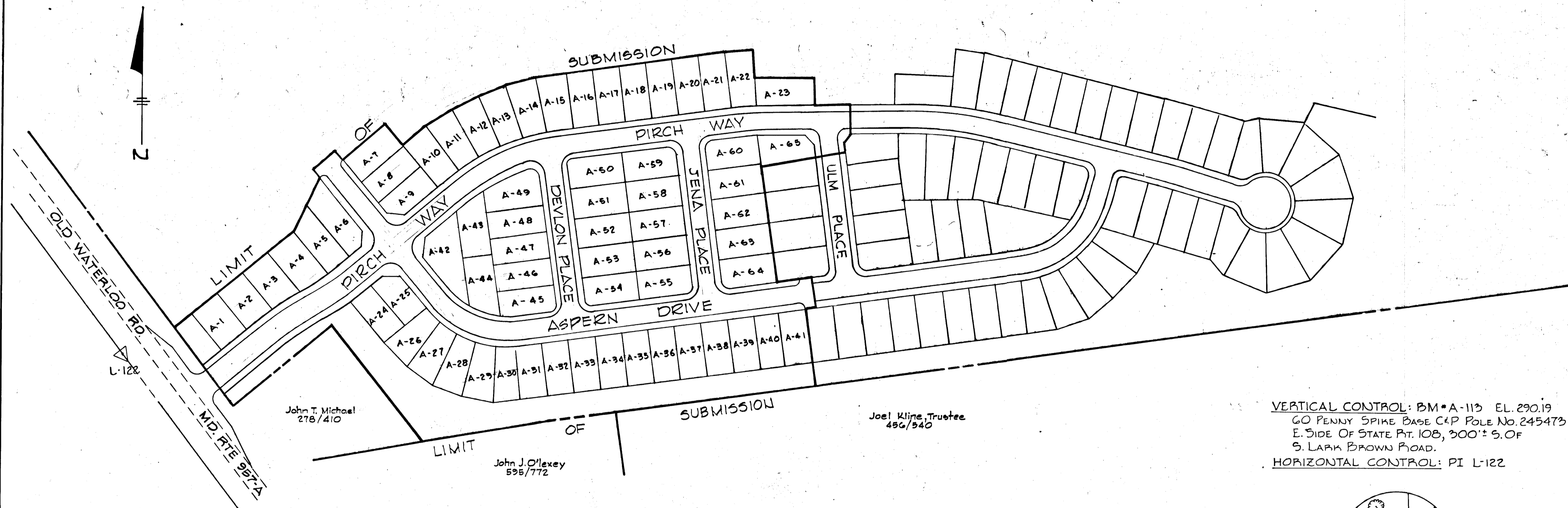
TOTAL AREA 10.9 Ac.
 OPEN SPACE 1.1 Ac.
 TOTAL LOT AREA 6.6 Ac. (65 LOTS)
 TOTAL ROADWAY AREA 3.2 Ac.
 ZONING (PRESENT) RMH



VICINITY MAP
Scale: 1" = 2000'

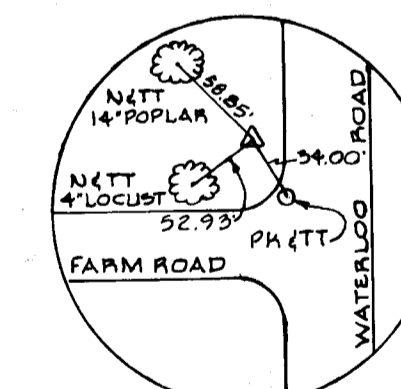
GENERAL NOTES

- All work shall be performed in accordance with the Howard County Road Construction Code and Standard Specifications.
- All utility companies shall be notified 24 hours in advance of construction.
- Streets are designed for traffic speed of 30 mph. in accordance with AASHTO Standards.
- All inlets shall be Howard County Standard unless otherwise noted.
- All street curb returns shall have a 55' radius unless otherwise noted.
- Storm drain trenches within road rights-of-way shall be backfilled and compacted in accordance with Howard County Road Construction Code and Standard Specifications.
- Approximate location of existing utilities are shown. The contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage due to contractor operations shall be repaired immediately at the contractor's expense.
- The contractor shall test pit existing utilities where directed by the engineer a minimum of two weeks in advance of construction operations.
- All reinforced concrete for storm drain structures shall have a minimum 28 day strength of 3,500 psi.
- Traffic control devices and installation shall be in accordance with Manual on Uniform Traffic Control Devices, 1971 Revised edition.
- Poly Filter X (filter cloth blanket) or equal shall be placed under all stone rip-rap.
- Rip-rap at outfalls shall be unpaved unless otherwise noted.
- All horizontal and vertical controls are based on Maryland State Datum.
- Seed and mulch all disturbed areas.
- All storm drain pipes shall have class "B" bedding.



LOCATION PLAN
Scale: 1" = 100'

VERTICAL CONTROL: BM * A-113 EL. 290.19
 60 PENNY SPIKE BASE C/P POLE NO. 245473
 E. SIDE OF STATE RT. 108, 300' ± S. OF
 S. LARK BROWN ROAD.
 HORIZONTAL CONTROL: PI L-122



PI L-122

"AS BUILT" ELEVATIONS AS OF
 DECEMBER 31, 1981
 SIGNED AND SEALED BY
 KENNETH A. MCCORD PE #1974

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 Signature: *Sam J. Reburn* Date: 11-5-80
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *Sam J. Reburn* DATE 11-5-80
 HOWARD SCD

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE MARYLAND
 Signature: *Kenneth A. McCord*
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974

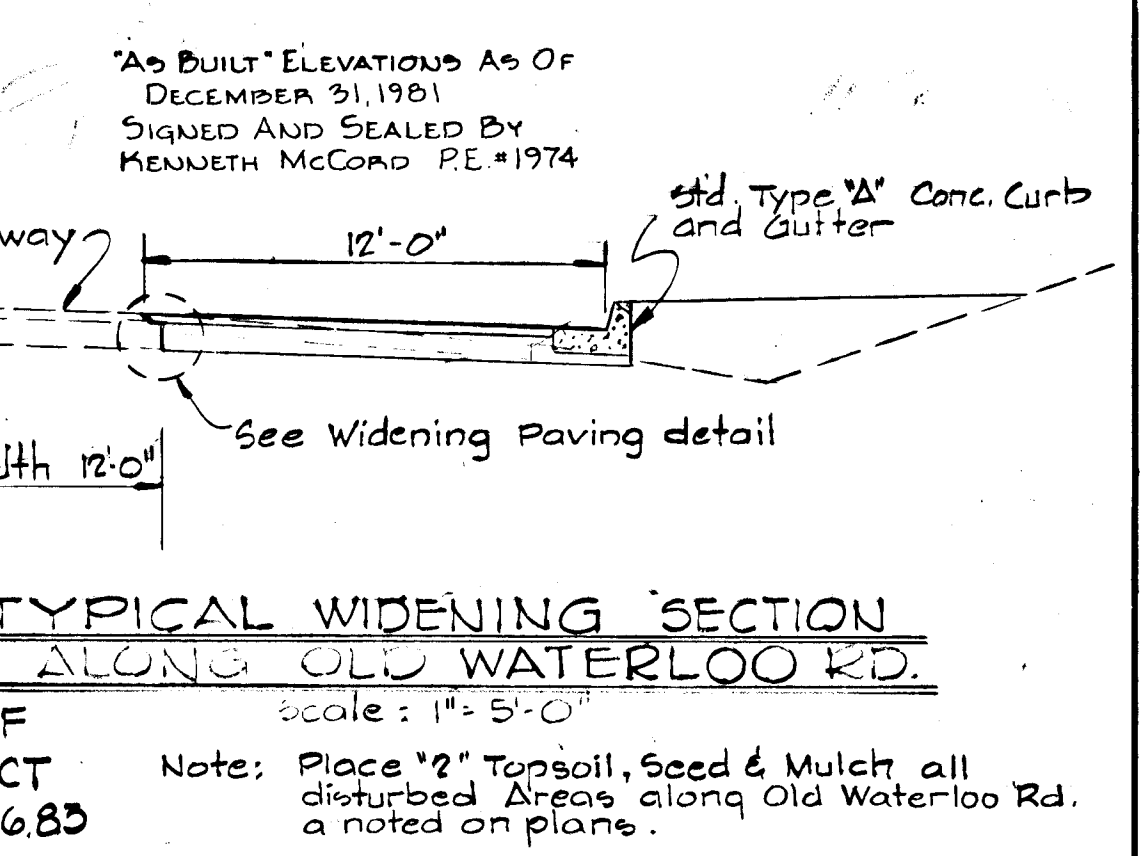
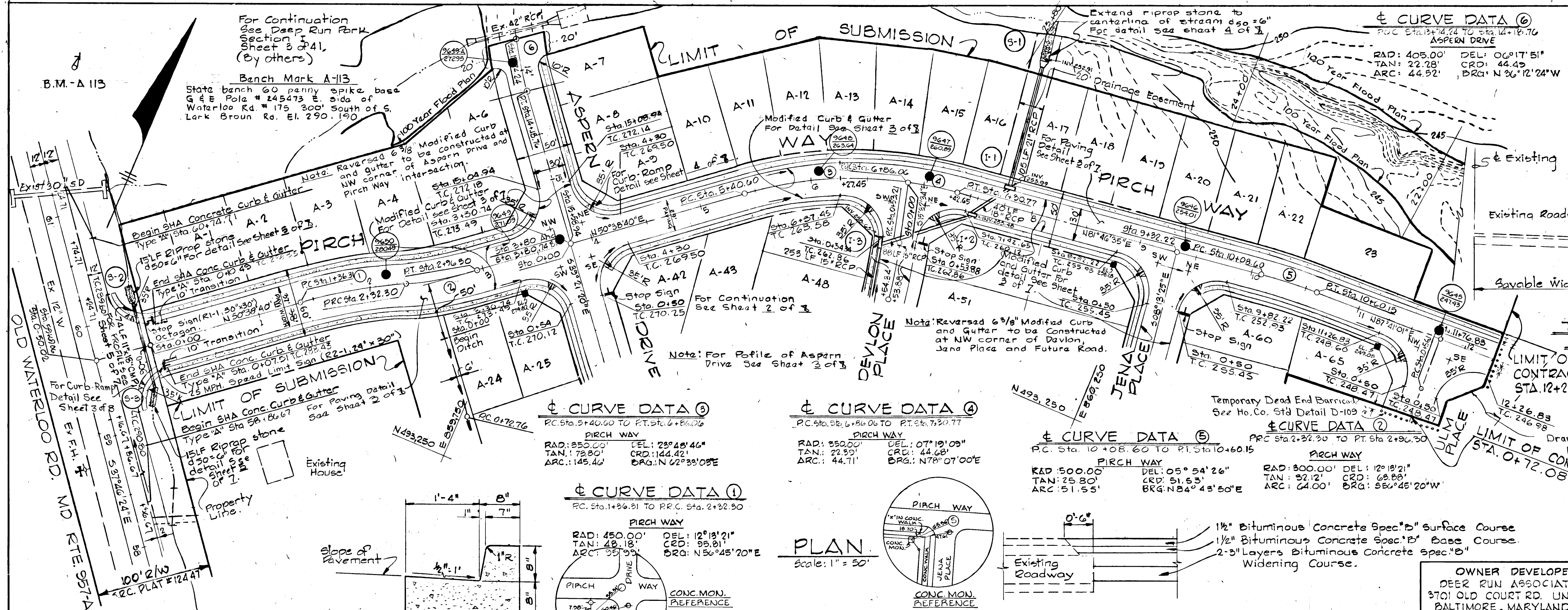
DEPARTMENT OF PUBLIC WORKS
 Signature: *William B. Reilly* 11-18-80
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING AND ZONING
 Signature: *William B. Reilly* 11-7-80
 CHIEF, DIVISION OF LAND DEVELOPMENT

CERTIFICATION BY THE DEVELOPER
 "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."
 Signature of Developer: *Joel Klips*
 Date: 7/6/80

CERTIFICATION BY THE ENGINEER
 "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."
 Signature of Engineer: *Kenneth A. McCord*
 Date: 7/9/80

OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD, SUITE 111
 BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
 SECTION I, AREA I
 LOTS A-1 TO A-65
 A RESUBDIVISION OF PART OF PARCEL "A"
 TITLE SHEET
 ROAD CONSTRUCTION PLANS
 FIRST ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 Scale: As Shown Date: 7/1/80

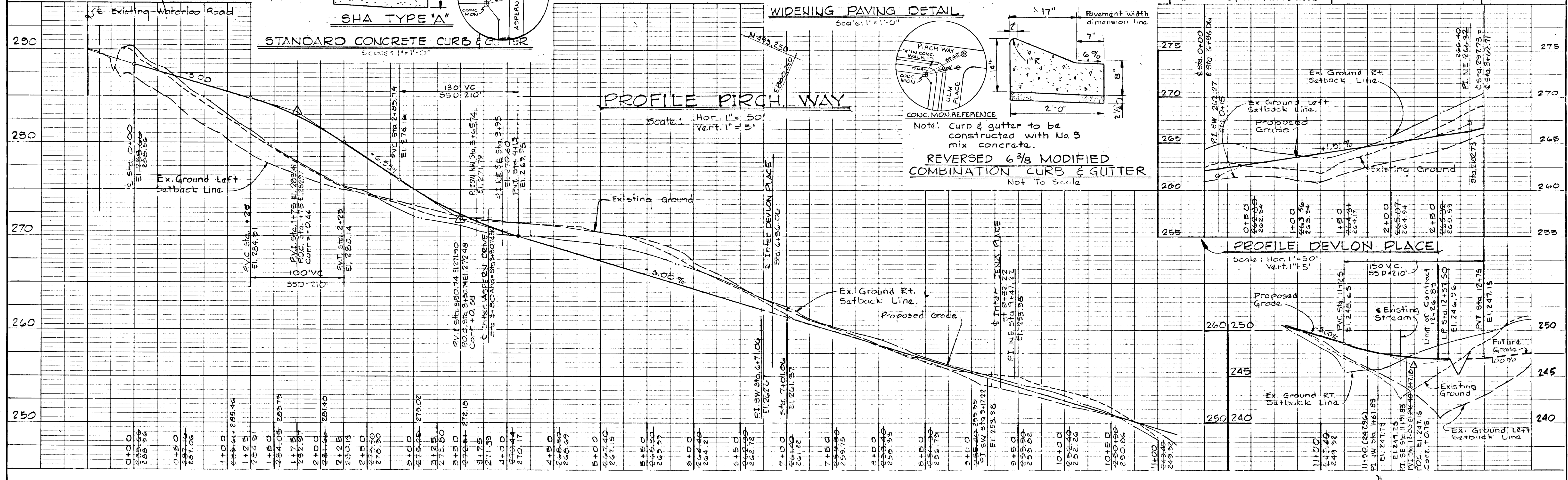
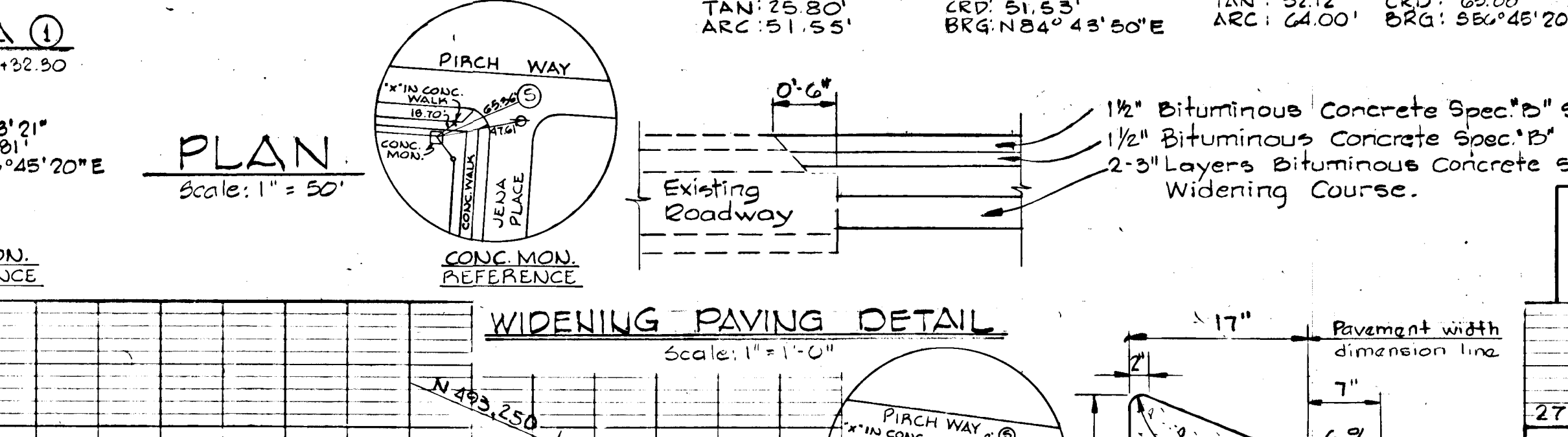
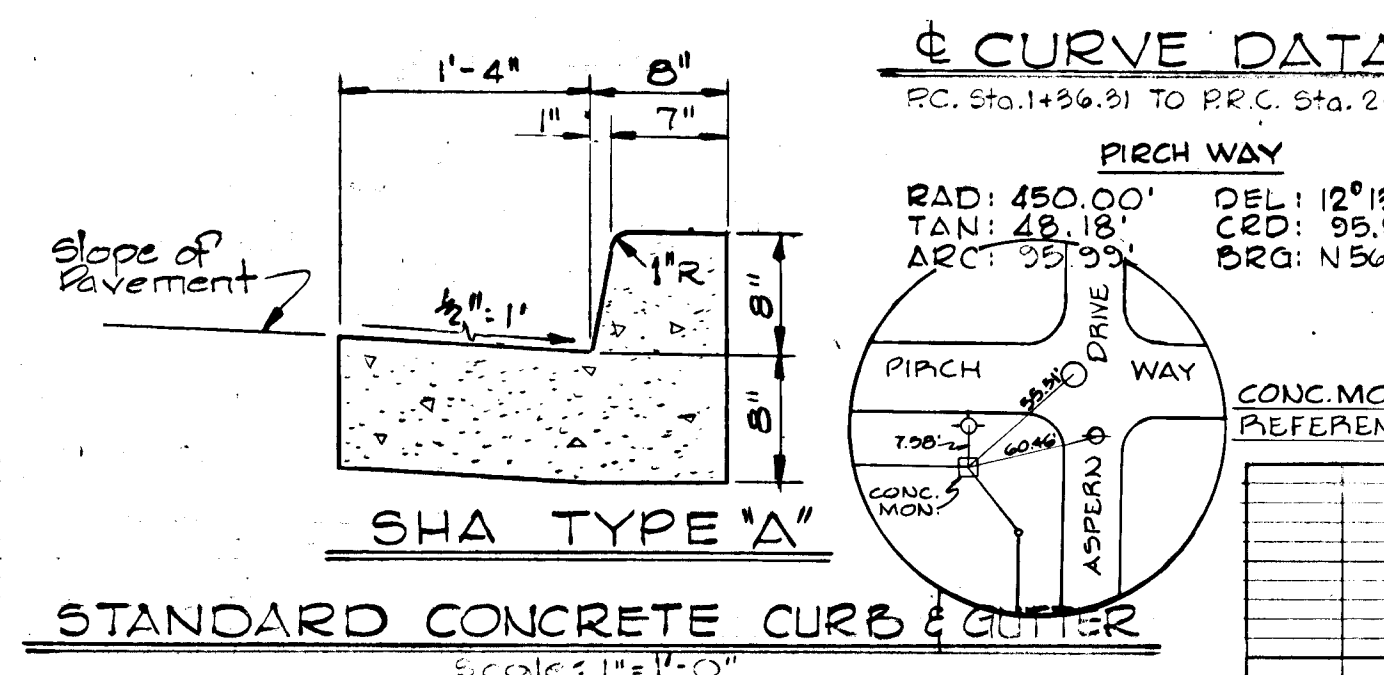


VILLAGE OF DEEP RUN
 SECTION I, AREA I
 LOTS A-1 TO A-27
 A RESUBDIVISION OF PART OF PARCEL "A"
 ASPEN DRIVE, PIRCH WAY PLAN PROFILE & DETAILS
 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE:

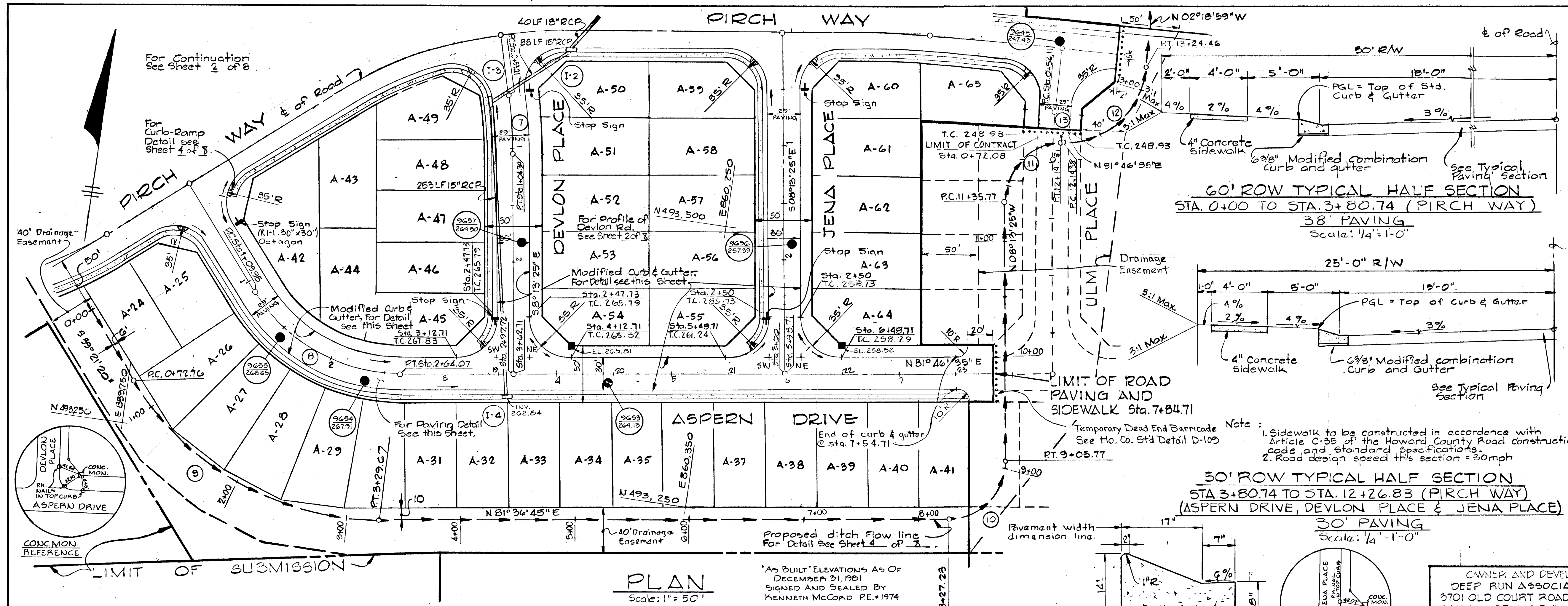
WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

Kenneth A. McCord
 Registered Engineer
 No. 1974

OWNER DEVELOPER
 DEER RUN ASSOCIATES
 3701 OLD COURT RD. UNIT #11
 BALTIMORE, MARYLAND 21208



William E. Riley
 CHIEF, BUREAU OF ENGINEERING 11-18-80
 DATE
 OFFICE OF PLANNING AND ZONING
 11-7-80
 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT



§ CURVE DATA ⑦
 PC. Sta. 0+52.11 TO PT. Sta. 1+04.81
 DEVLON PLACE
 RAD: 400.00' DEL: 07°19'09"
 TAN: 25.58' CRD: 81.06'
 ARC: 51.10' BRG: S11°52'60"E

§ CURVE DATA ⑧
 PC. Sta. 1+05.95 TO PT. Sta. 2+04.07
 ASPERN PLACE
 RAD: 150.00' DEL: 58°25'05"
 TAN: 84.64' CRD: 147.48'
 ARC: 154.12' BRG: S68°47'23"E

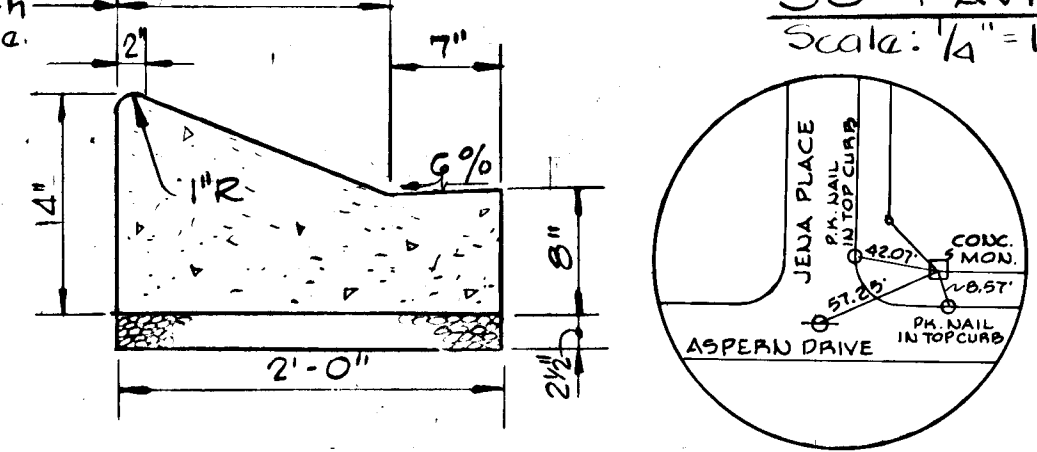
§ CURVE DATA ⑨
 PC. Sta. 11+09.77 TO PT. Sta. 12+42.81
 § Flow Line Ditch
 RAD: 750.00' DEL: 88°27'05"
 TAN: 141.06' CRD: 245.71'
 ARC: 256.86' BRG: S68°47'23"E

VILLAGE OF DEEP RUN
 SECTION I, AREA I
 LOTS A-1 TO A-67
 A RESUBDIVISION OF PART OF PARCEL "A"
 ASPERN DRIVE, BIRCH WAY PLAN, PROFILE & DETAILS
 1st. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: 7/10/80

WHITMAN REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

Kenneth McCord
 FENNETH A. MCCORD
 Registered Engineer
 No. 1974

OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD UNIT #11
 BALTIMORE, MARYLAND 21208

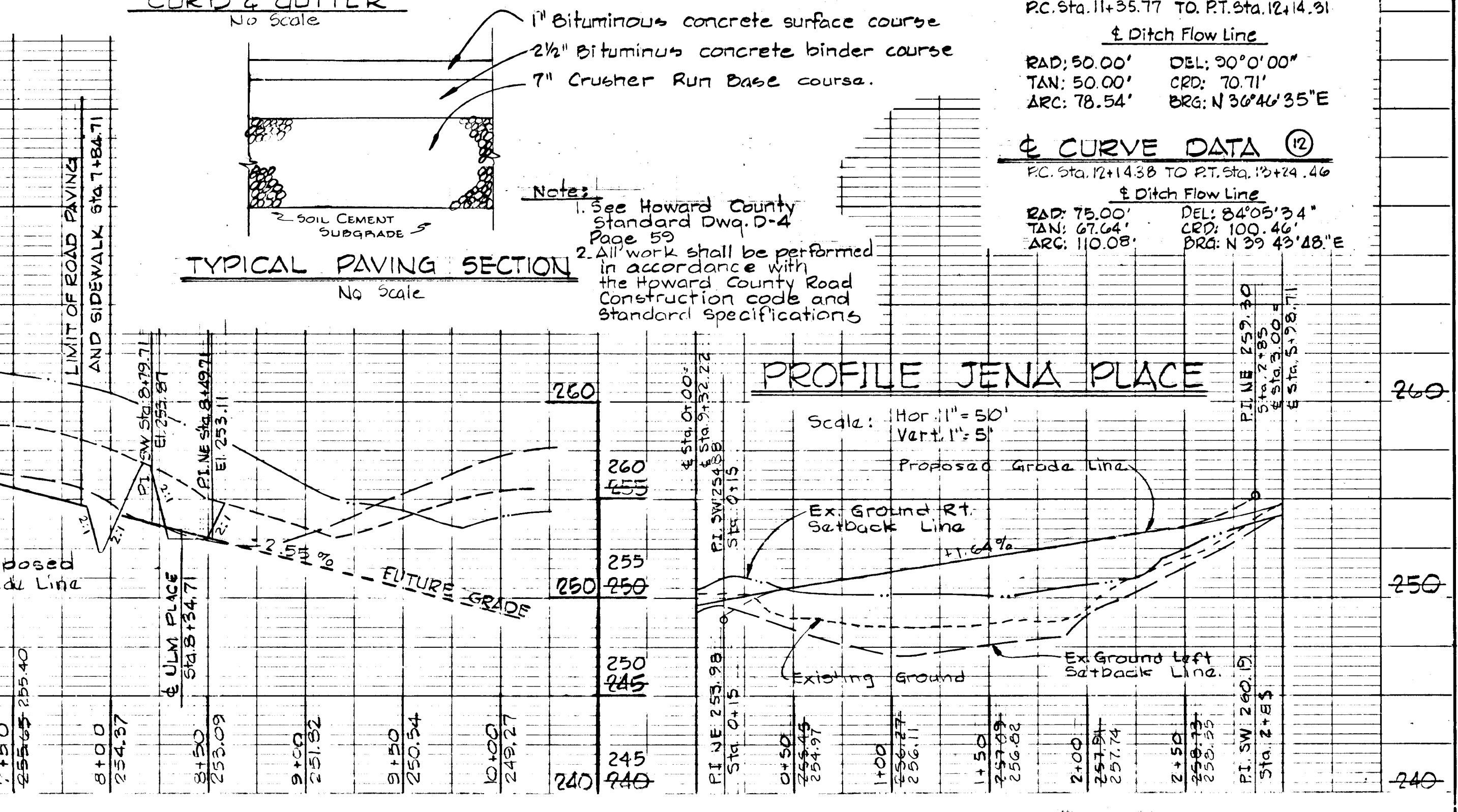
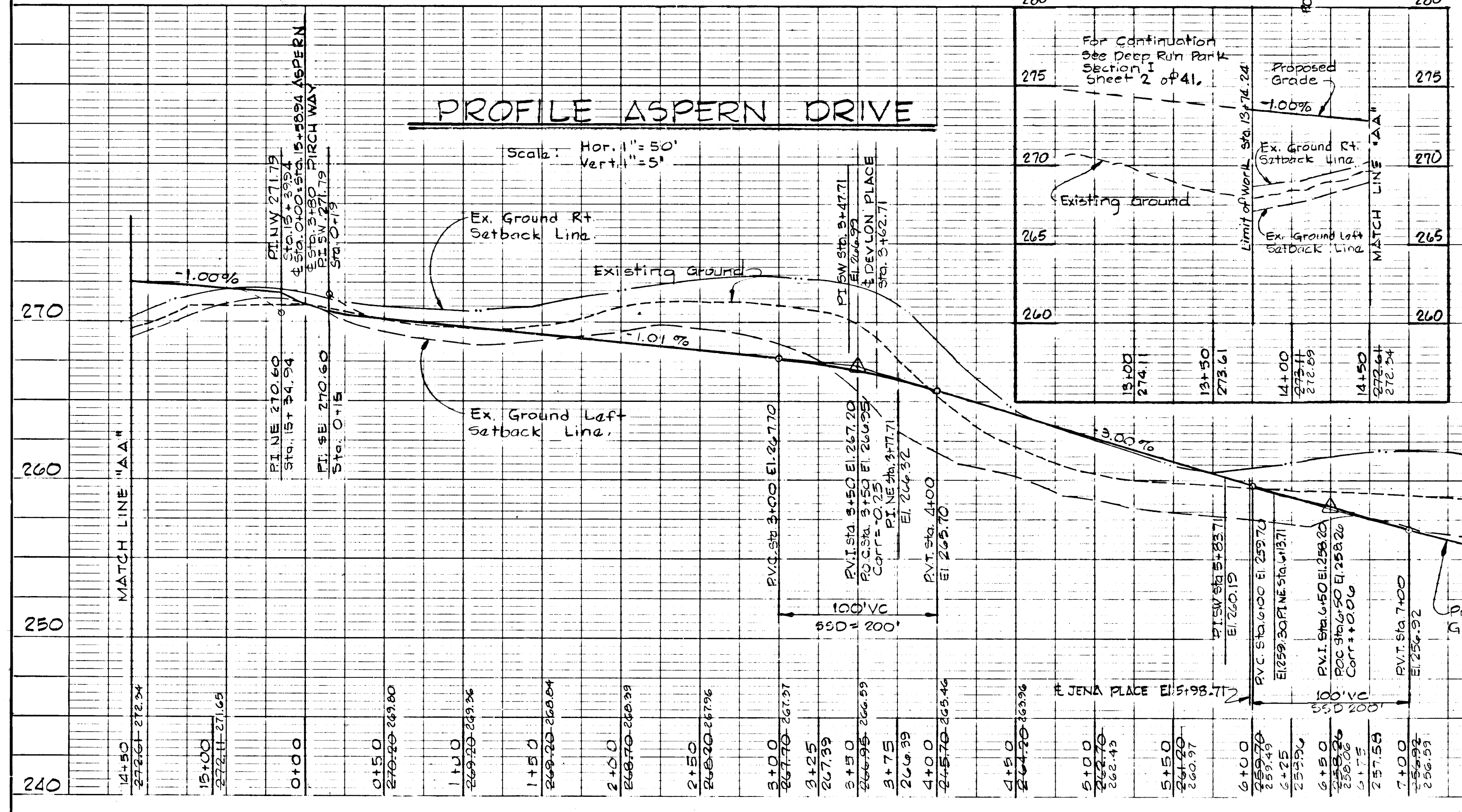


§ CURVE DATA ⑬
 PC. Sta. 0+56.11 TO P.C. Sta. 0+12.08
 ULM PLACE
 RAD: 400.00' DEL: 02°17'16"
 TAN: 7.99' CRD: 15.97'
 ARC: 15.91' BRG: N03°27'36"W

§ CURVE DATA ⑩
 PC. Sta. 8+27.23 TO PT. Sta. 9+05.77
 § Ditch Flow Line
 RAD: 50.00' DEL: 90°0'0"
 TAN: 50.00' CRD: 70.71'
 ARC: 78.54' BRG: N36°46'35"E

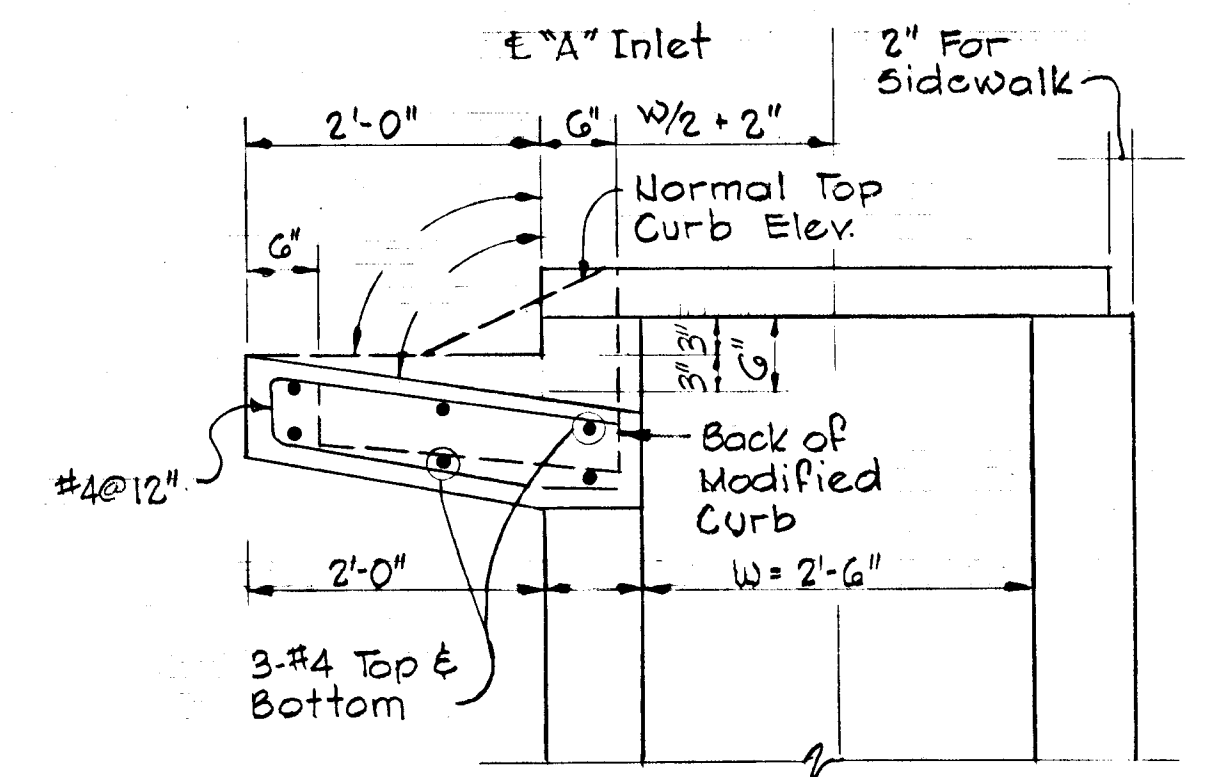
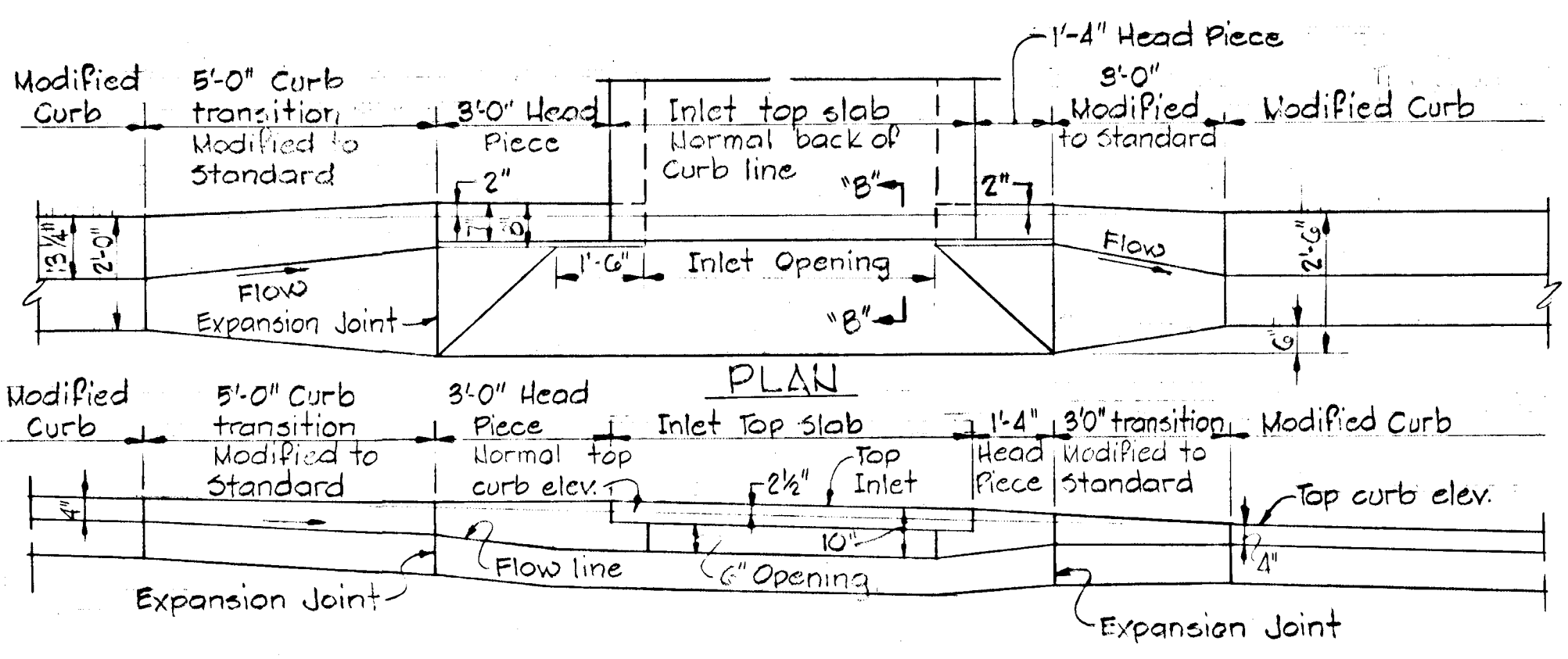
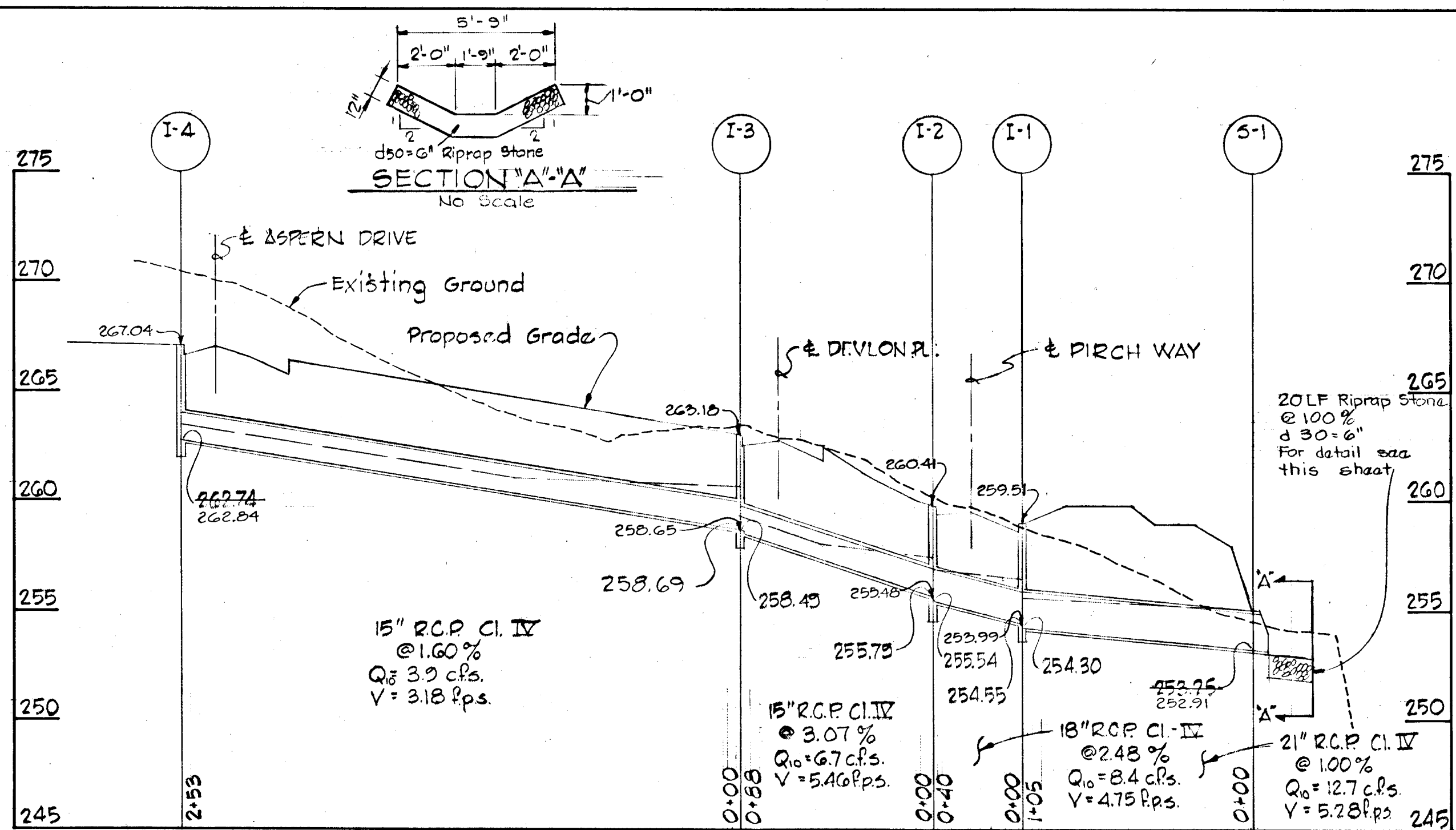
§ CURVE DATA ⑪
 PC. Sta. 11+35.77 TO PT. Sta. 12+14.81
 § Ditch Flow Line
 RAD: 50.00' DEL: 90°0'00"
 TAN: 50.00' CRD: 70.71'
 ARC: 78.54' BRG: N36°46'35"E

§ CURVE DATA ⑫
 PC. Sta. 12+14.88 TO PT. Sta. 13+24.46
 § Ditch Flow Line
 RAD: 75.00' DEL: 84°05'34"
 TAN: 67.64' CRD: 100.46'
 ARC: 110.08' BRG: N39°43'48"E

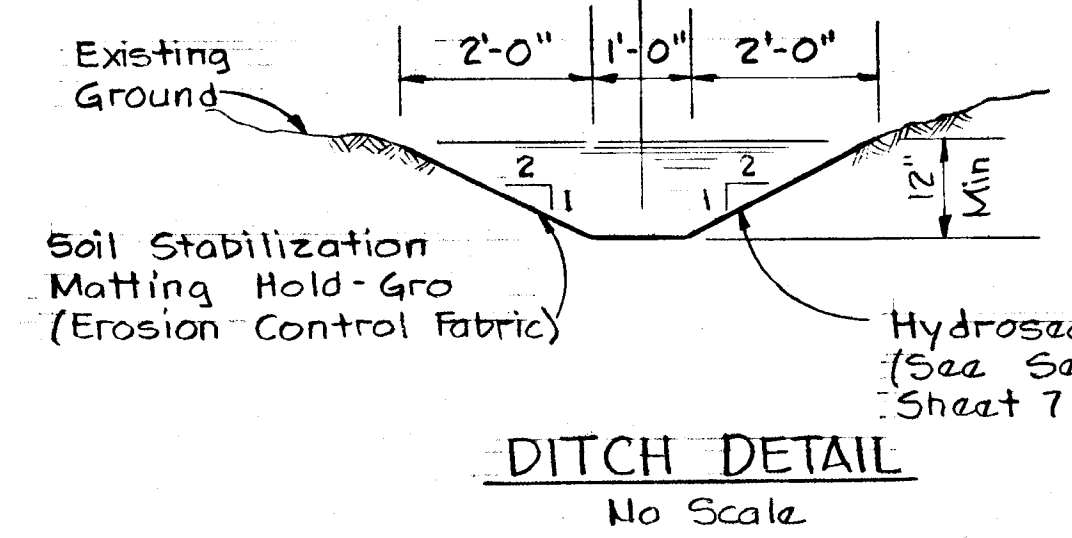
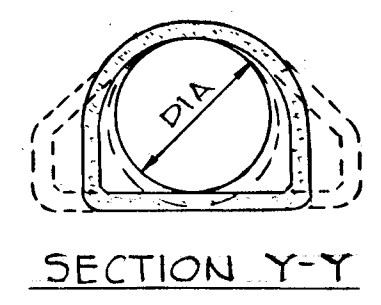
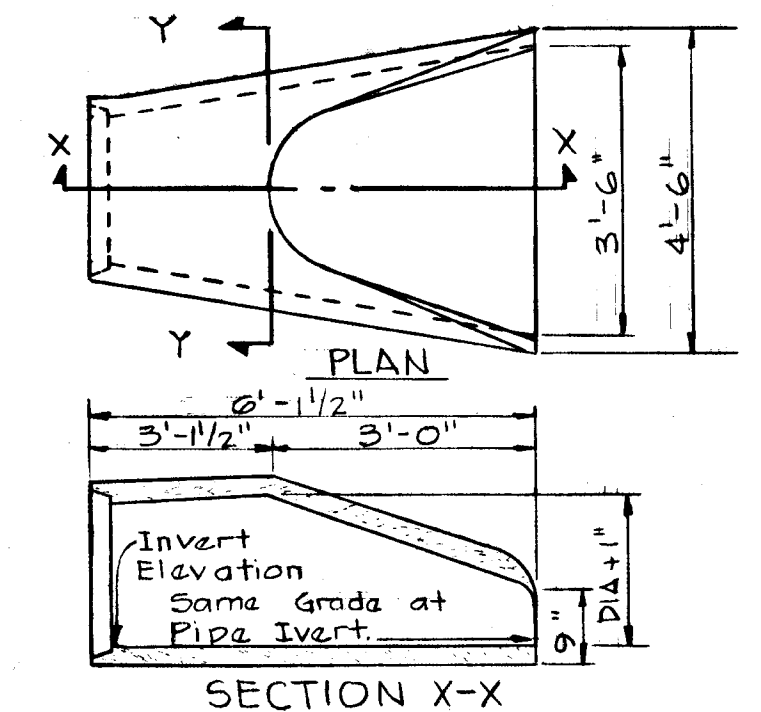
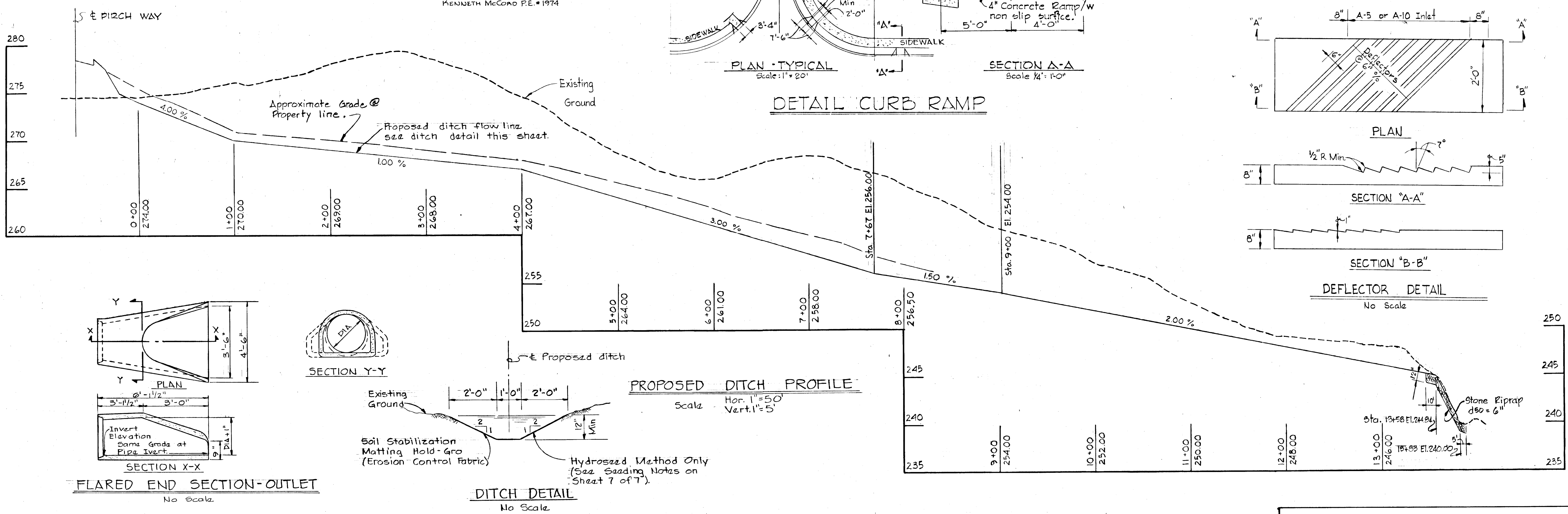
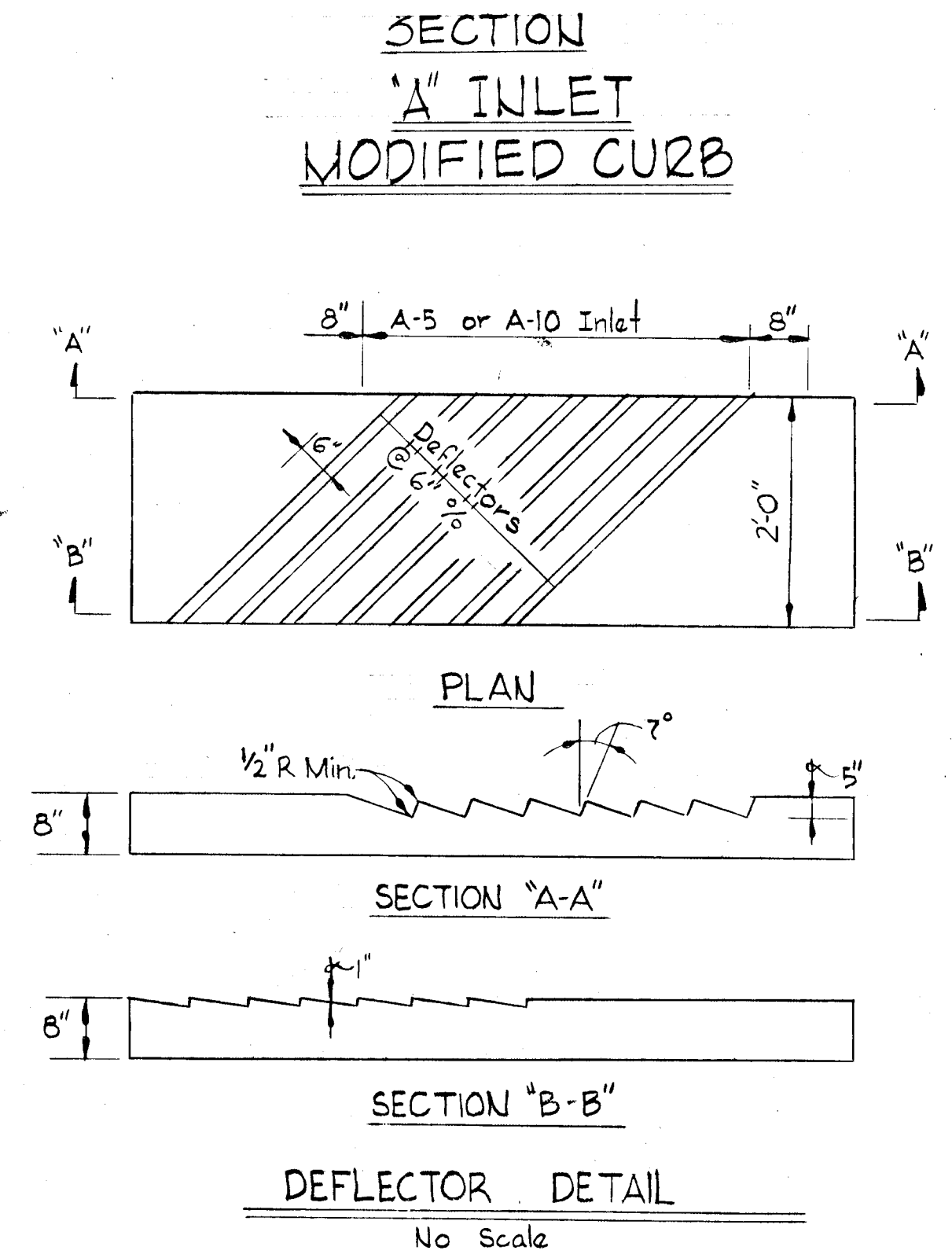
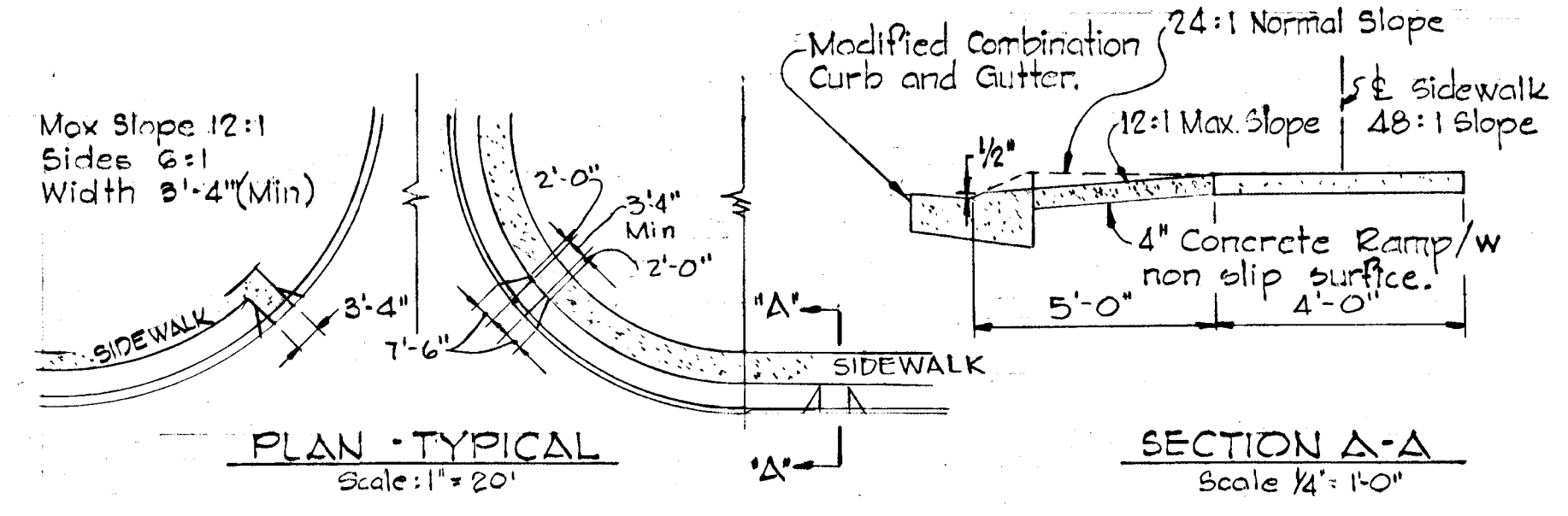


DATE: _____ BY: _____
 SURVEYED: _____
 PLANNED: _____
 CHECKED: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 SURVEYED: _____
 PLANNED: _____
 CHECKED: _____
 NOTE BOOK: _____
 NO. _____



Note:
For "A" Inlet dimensions and structural details, see standard Howard County drawing 64-A page 119-A.



#844

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. McCord
KENNETH A. MCCORD
Registered Engineer
No. 1974

DEPARTMENT OF PUBLIC WORKS
Nicolas E. Roca
CHIEF, BUREAU OF ENGINEERING
OFFICE OF PLANNING AND ZONING
Kenneth A. McCord
CHIEF, DIVISION OF LAND DEVELOPMENT

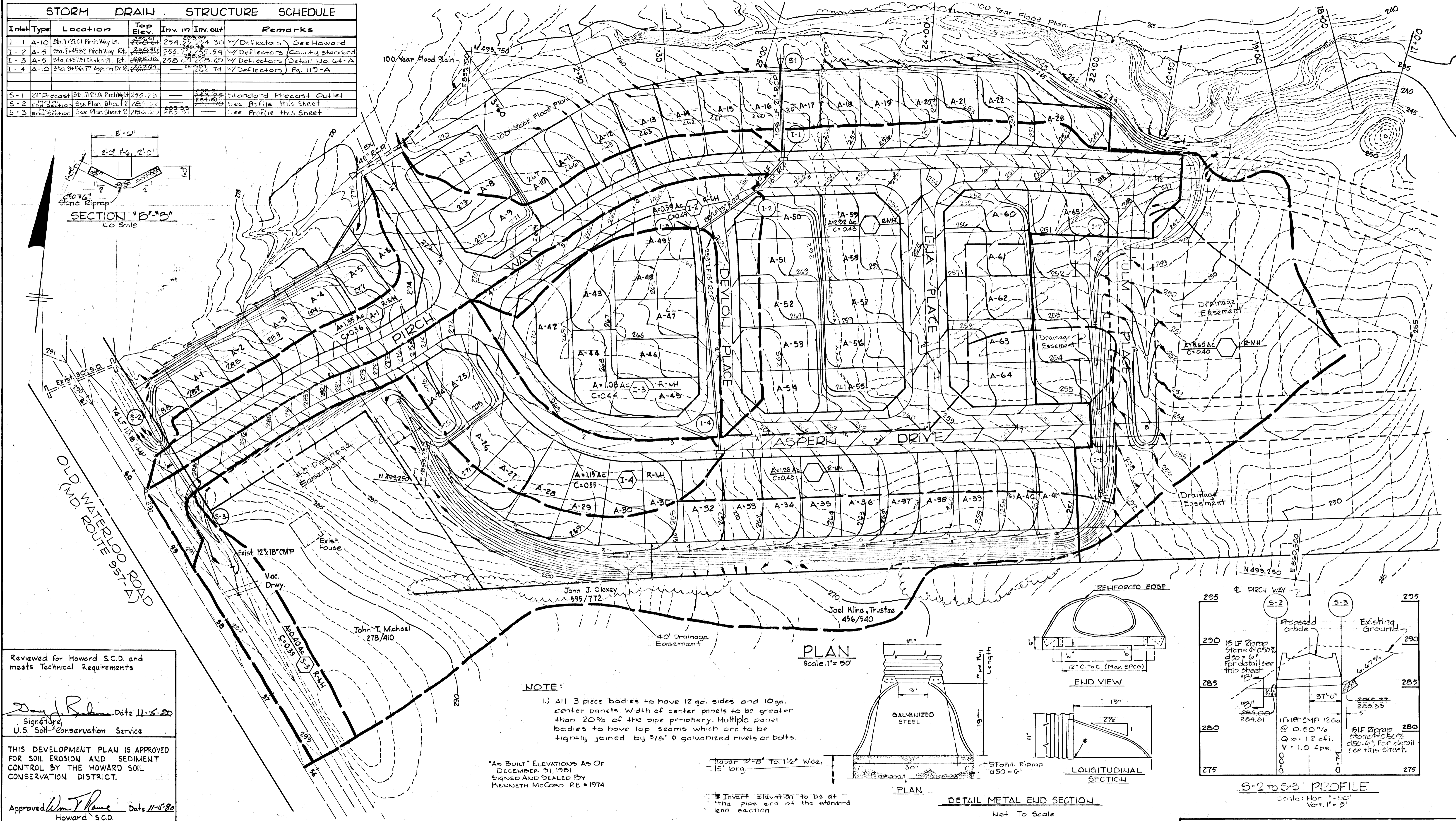
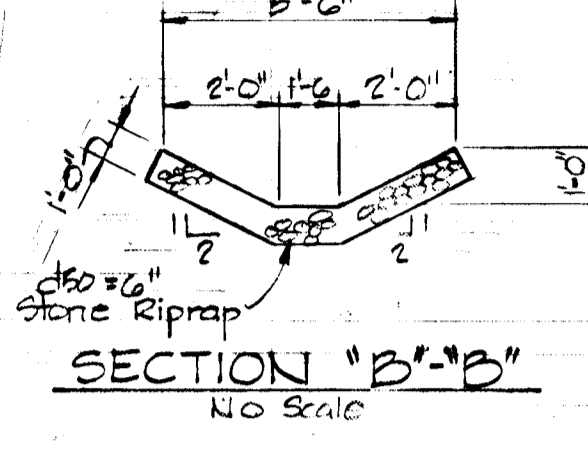
CERTIFICATION OF DEVELOPER
"I certify that all development and/or construction will be done according to this plan of development and plan of Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District of their authorized agents, as are deemed necessary."
Kenneth A. McCord
Signature of Developer

CERTIFICATION OF ENGINEER
"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."
Kenneth A. McCord
7/3/80
Date

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA I
LOTS A-1 TO A-67
A RESUBDIVISION OF PART OF PARCEL "A"
STORM DRAIN PROFILE AND DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown
Date: 7/10/80

STORM DRAIN STRUCTURE SCHEDULE						
Inlet	Type	Location	Top Elev.	Inv. in	Inv. out	Remarks
I-1	A-10	Sta. 74+20.11 Birch Way Lt.	255.25	254.33	254.30	✓ Deflectors See Howard
I-2	A-5	Sta. 74+53.2 Birch Way Rt.	255.215	255.215	254.54	✓ Deflectors County Standard
I-3	A-5	Sta. 04+57.51 Devlon Pl. Rt.	255.16	255.16	253.67	✓ Deflectors Detail No. G4-A
I-4	A-10	Sta. 94+56.77 Aspern Dr. Rt.	255.23	255.23	252.74	✓ Deflectors Pa. 117-A
S-1	21" Precast	Sta. 74+20.11 Birch Way Lt.	255.25	255.25	255.25	Standard Precast Outlet
S-2	End Section	See Plan Sheet 2	255.25	255.25	255.25	See Profile this Sheet
S-3	End Section	See Plan Sheet 2	255.25	255.25	255.25	See Profile this Sheet



Reviewed for Howard S.C.D. and meets Technical Requirements

Doug J. Palmer Date 11-5-80
 Signed
 U.S. Soil Conservation Service

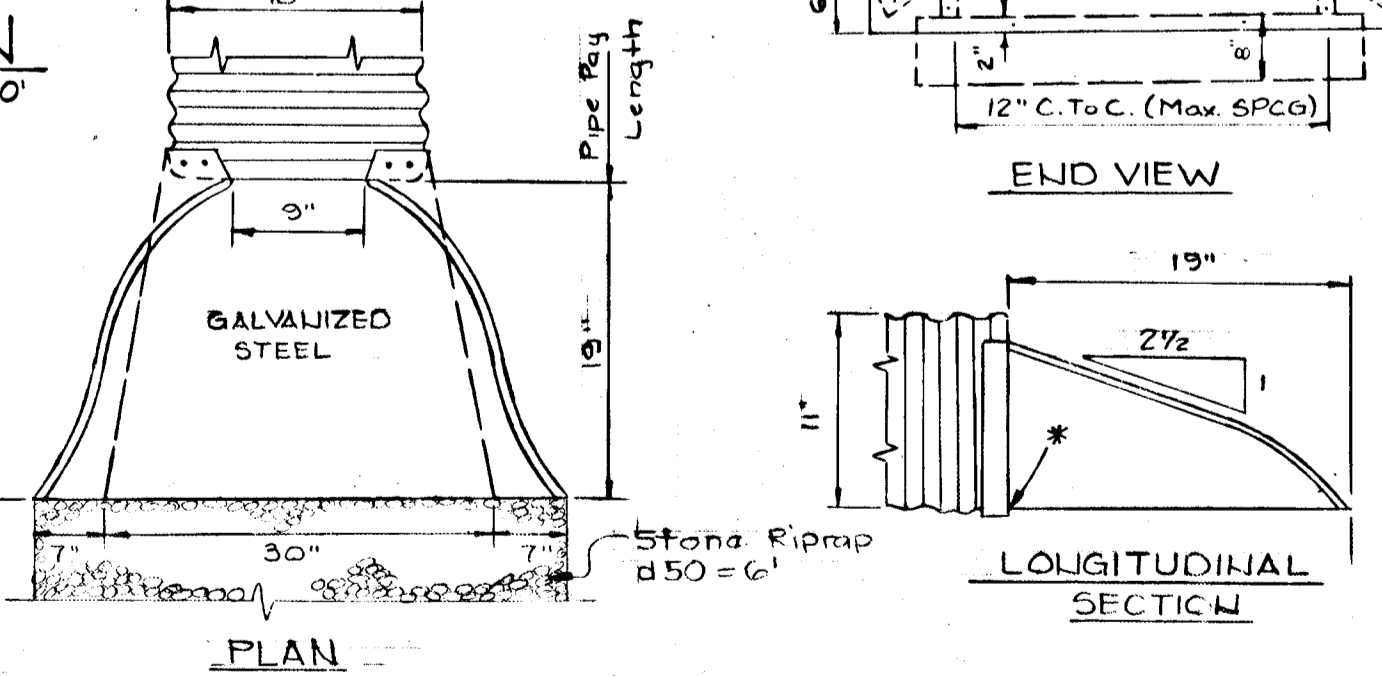
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved *Wm. T. Howe* Date 11-5-80
 Howard S.C.D.

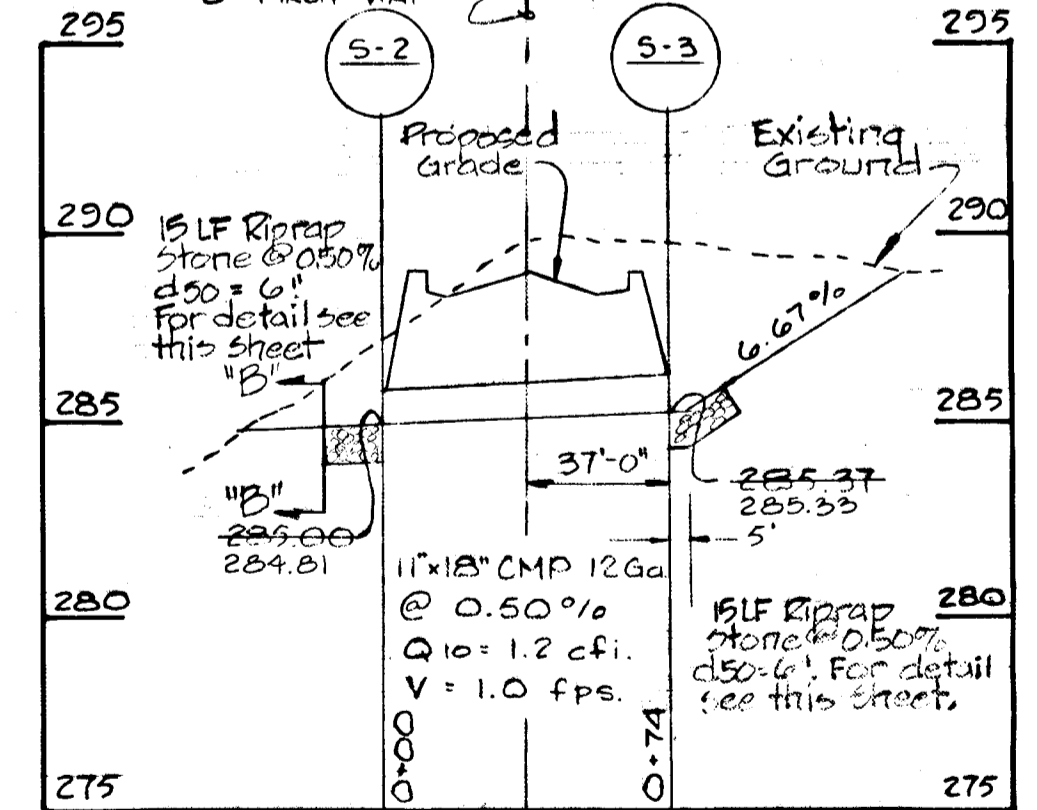
NOTE:

1.) All 3 piece bodies to have 12 ga. sides and 10 ga. center panels. Width of center panels to be greater than 20% of the pipe periphery. Multiple panel bodies to have lap seams which are to be tightly joined by 3/8" φ galvanized rivets or bolts.

PLAN
 Scale: 1" = 50'



DETAIL METAL END SECTION
 Not To Scale



S-2 to S-3 PROFILE
 Scale: Hor. 1" = 50'
 Vert. 1" = 5'

#844

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND
Kenneth A. McCord
 Registered Engineer
 No. 1974

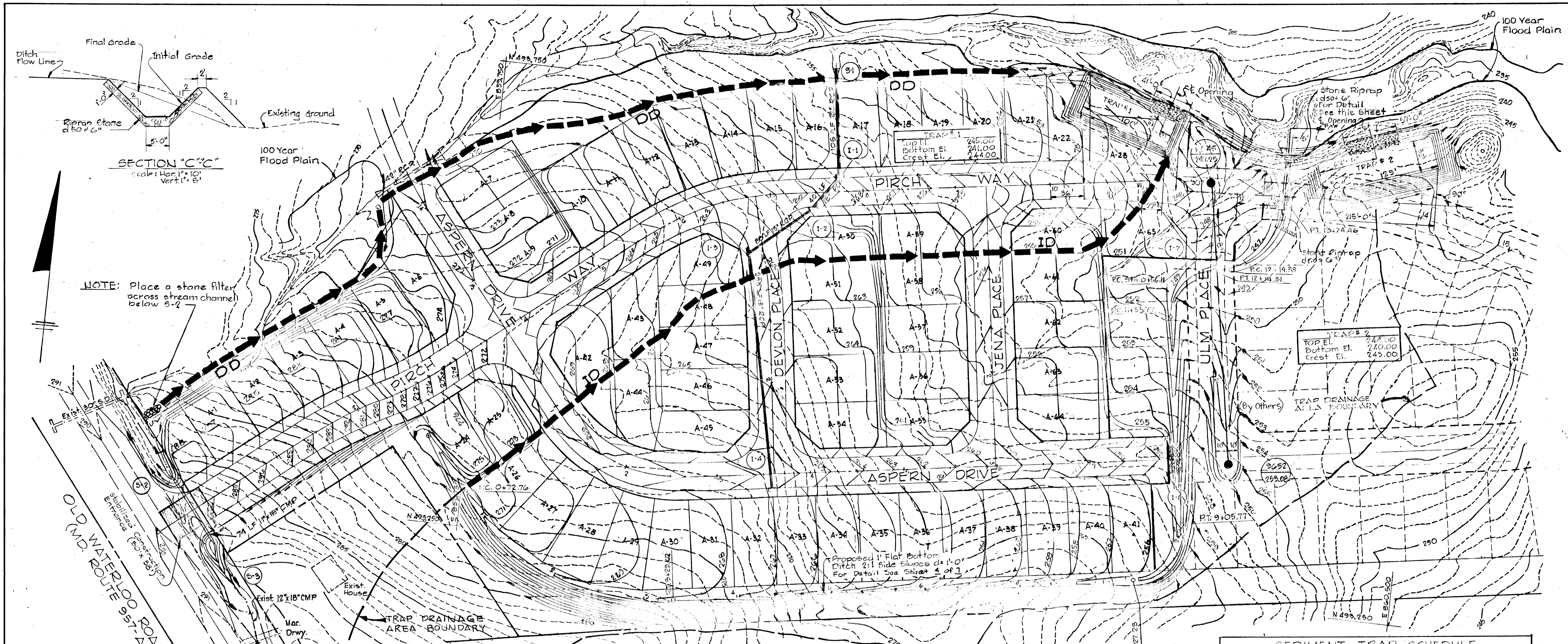
DEPARTMENT OF PUBLIC WORKS
Kenneth S. Day 11-18-80
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
William M. McKeown 11-7-80
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

CERTIFICATION BY THE DEVELOPER
 "I certify that all development and/or construction will be done according to this plan of development and plan of 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."
Paul Lee 7/3/80
 Signature of Developer Date

CERTIFICATION BY THE ENGINEER
 "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."
Kenneth A. McCord 7/3/80
 Signature of Engineer Date

OWNER AND DEVELOPER
 DEEP RUN ASSOCIATES
 3701 OLD COURT ROAD, UNIT 11
 BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
 SECTION I, AREA I
 LOTS A-1 TO A-67
 A RESUBDIVISION OF PART OF PARCEL "A"
 DRAINAGE AREA MAP
 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 Scale: As Shown. Date: 7/10/80



SECTION "C-C"
Scale: Hor. 1" = 10'
Vert. 1" = 5'

NOTE: Place a stone filter across stream channel below S-7

SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL PROCEDURES SHALL BE CARRIED OUT IN ACCORDANCE WITH APPROVED PLANS AND CRITERIA OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND ALSO THE U.S. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" (HEREINAFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS").
2. ALL STREETS SHOWN ON THIS PLAN ARE PUBLIC AND SHALL BE DEDICATED FOR PUBLIC USE.
3. ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING IMMEDIATELY FOLLOWING TOUGH GRADING IN ACCORDANCE WITH PAGES 5001 THROUGH 5003 OF THE "STANDARDS AND SPECIFICATIONS".
4. STABILIZATION OF THE PERIMETER DIKES WILL BE IN ACCORDANCE WITH PAGES 12.01 THROUGH 12.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
5. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGE 16.03 OF "STANDARDS AND SPECIFICATIONS".
6. THESE SEDIMENT CONTROL DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF SEDIMENT CONTROL PRACTICES ONLY. FOR ALL OTHER PROPOSED CONSTRUCTION SEE THE "FINAL DEVELOPMENT PLANS".
7. STABILIZATION OF THE DIVERSION DIKES WILL BE IN ACCORDANCE WITH PAGES 10.01 THROUGH 10.03 "STANDARDS AND SPECIFICATIONS FOR DIVERSION".
8. THE SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS OR AFTER RAINFALL.
9. STABILIZATION OF INTERCEPTOR DIKES WILL BE IN ACCORDANCE WITH PAGES 11.01 THROUGH 11.03 "STANDARDS AND SPECIFICATIONS FOR INTERCEPTOR".

PLAN
Scale: 1" = 50'

Notes:
Poly-Filter x (filter cloth blanket) or equal shall be placed under all stone rip-rap.

SEDIMENT TRAP SCHEDULE					
NO.	DRAINAGE AREA	VOLUME REQUIRED	TRAP SIZE	TRAP CAPACITY	OUTLET WIDTH
1	9.0 AC.	457 cy.	100' x 31' x 4'	453 cy.	41"
2	9.6 AC.	641 cy.	125' x 35' x 4'	643 cy.	57"

LEGEND

- PERIMETER DIKE
- DIVERSION DIKE
- INTERCEPTOR DIKE
- STABILIZED CONSTRUCTION ENTRANCE
- EXISTING GROUND
- LIMIT OF DRAINAGE AREA
- PROPOSED GROUND

Reviewed for Howard S.C.D. and meets Technical Requirements

Jay R. Beckman Date 11-5-80
Signature
U.S. Soil Conservation Service

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

Approved *W. J. Plame* Date 11-5-80
Howard S.C.D.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. McLeod
KENNETH A. McLEOD
Registered Engineer
No. 1974

DEPARTMENT OF PUBLIC WORKS
William C. Ray 11-18-80
CHIEF, BUREAU OF ENGINEERING DATE
OFFICE OF PLANNING AND ZONING
William C. Ray 11-7-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

CERTIFICATION BY THE DEVELOPER
"I certify that all development and/or construction will be done according to this plan of development and plan of 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."
Ray Plame 7/8/80
Signature of Developer Date

CERTIFICATION BY THE ENGINEER
"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."
Kenneth A. McLeod 7/8/80
Signature of Engineer Date

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA I
LOTS A-1 TO A-67
A RESUBDIVISION OF PART OF PARCEL "A"
SEDIMENT CONTROL MAP
1st. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown Date: 7/10/80

CONSTRUCTION SPECIFICATIONS: (PERIMETER DIKE)

- ALL DIKES SHALL BE MACHINE COMPACTED.
- ALL PERIMETER DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- 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.
 - 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.
- STABILIZATION, WHEN REQUIRED SHALL BE DONE IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATER WAY. THE MINIMUM AREA TO BE STABILIZED SHALL BE THE CHANNEL FLOW AREA.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

CONSTRUCTION SPECIFICATIONS: (DIVERSION DIKE)

- ALL DIKES SHALL BE MACHINE COMPACTED.
- ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL OUTLET DIRECTLY TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.
 - DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
- STABILIZATION, AS SPECIFIED BY THE PLANS, SHALL BE: (1) IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATERWAY, AND THE AREA TO BE STABILIZED SHALL BE THE CHANNEL (FLOW AREA); OR (2) THE FLOW AREA SHALL BE LINED WITH STONE THAT MEETS MSHA SIZE NO.2 OR AASHTO M43 SIZE NO.2 OR 24 WHICH IS PLACED IN A 3 INCH THICK LAYER AND PRESSED INTO THE SOIL. THE AREA COVERED BY THE STONE SHALL BE AS SHOWN ON THE DRAWING ABOVE.

CONSTRUCTION SPECIFICATIONS: (SEDIMENT TRAP)

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- THE CRUSHED STONE USED IN THE OUTLET SHALL MEET AASHTO DESIGNATION M43, SIZE NO.2 OR 24 OR ITS EQUIVALENT SUCH AS MSHA NO.2. GRAVEL, MEETING THE ABOVE GRADATION MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. CRUSHER RUN IS NOT ACCEPTABLE.

CONSTRUCTION SPECIFICATIONS -

(STABILIZED CONSTRUCTION ENTRANCE)

- 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.
- LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
- WIDTH - NOT LESS THAN FULL WIDTH OF PROPOSED PAVING.
- 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 WATER-COURSE THROUGH USE OF SAND BAGS, GRAVEL, OR OTHER APPROVED METHODS.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

SEEDING NOTES (HYDROSEED METHOD ONLY)

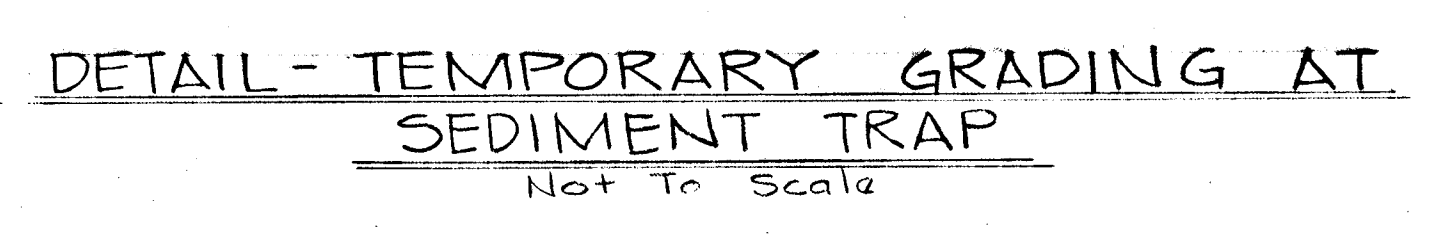
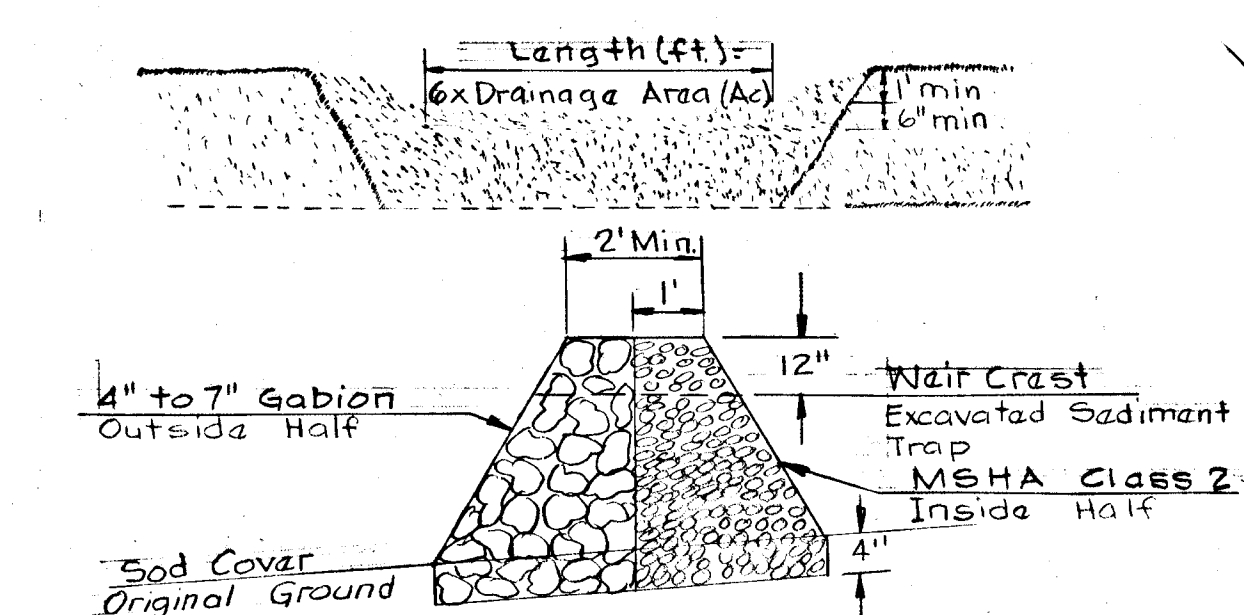
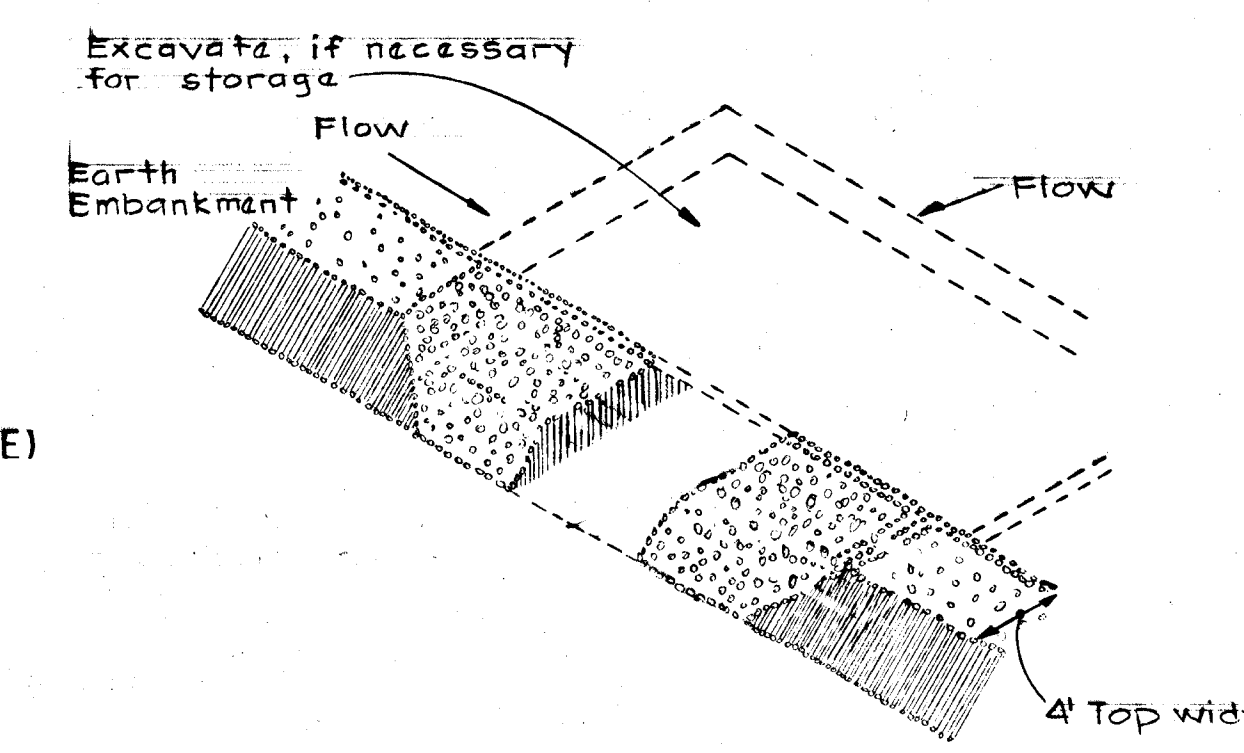
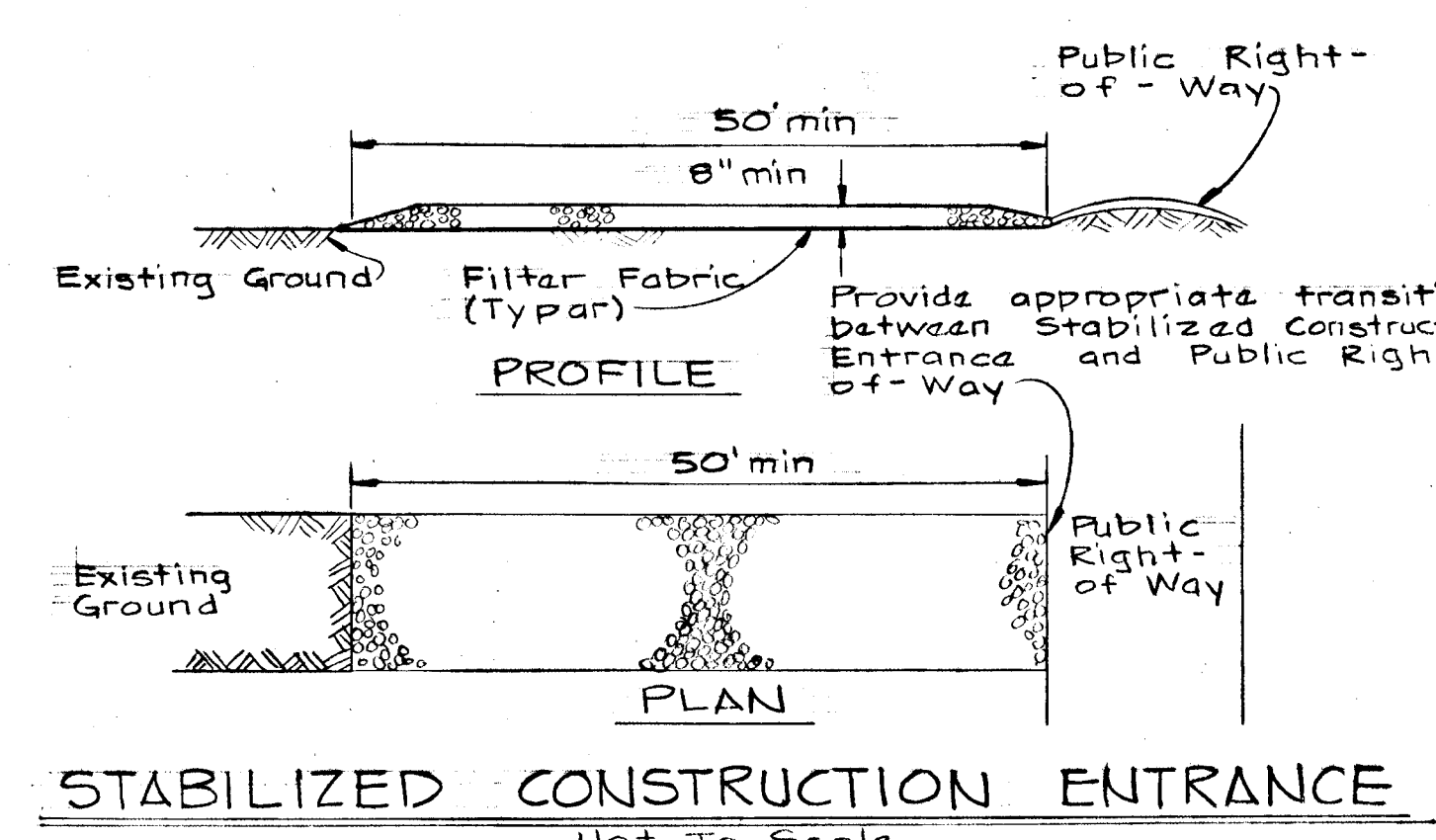
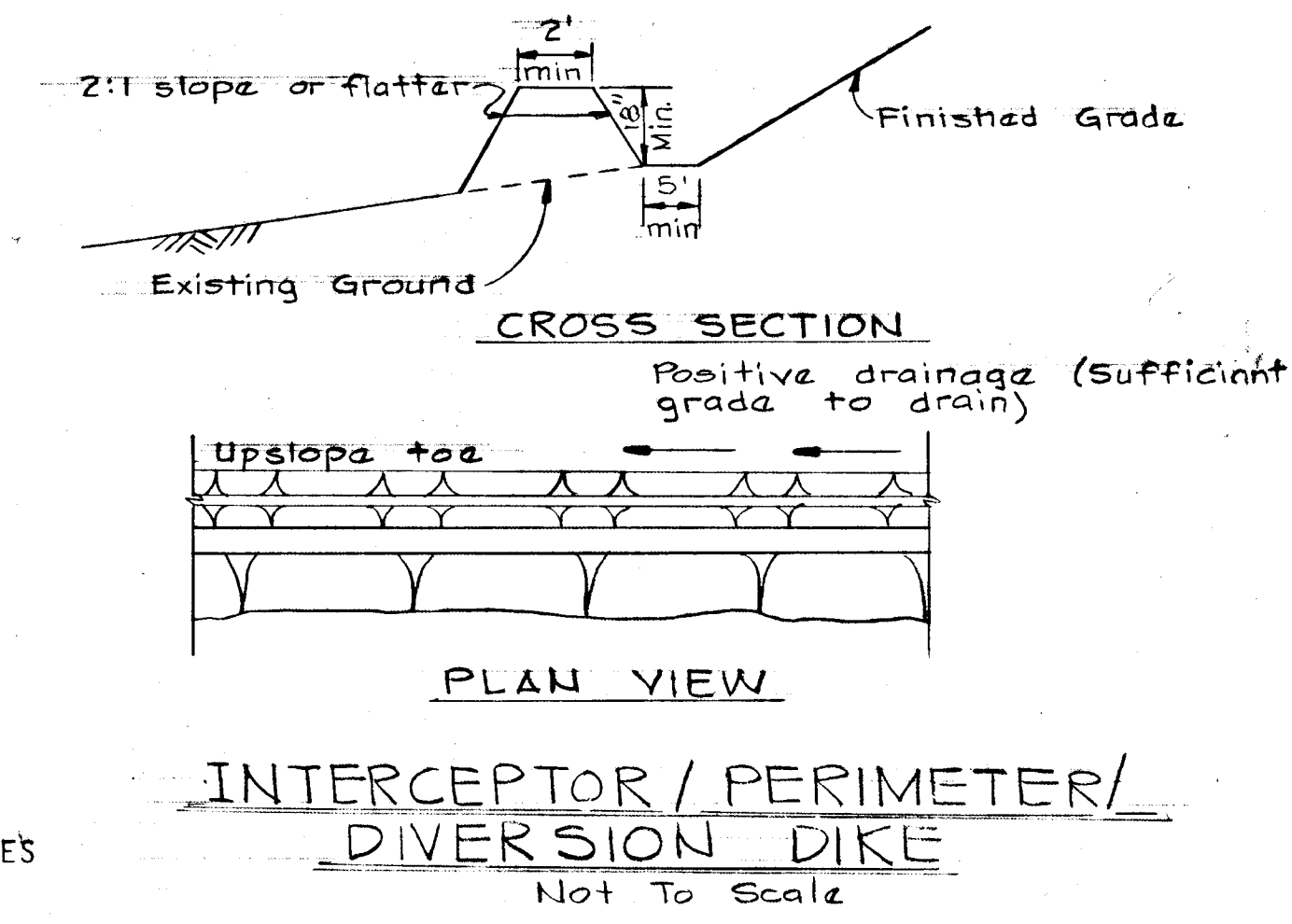
- ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED AND STABILIZED ACCORDING TO NOTE 1 PRIOR TO ANY OTHER GRADING ON THE SITE.
- NO TEMPORARY SEDIMENT CONTROL STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.
- ALL AREAS OTHER THAN LAWNS TO BE SEED (DIKES, TRAPS, DRAINAGE SWALES AND DISTURBED AREAS) AT THE RATE OF 80lbs./ACRE OF THE FOLLOWING: KENTUCKY 31 TALL FESCUE 60lbs./ACRE AND KOREAN LESPEDEZA (SCARIFY AND INOCULATE) 20lbs./ACRE. IMMEDIATELY AFTER CONSTRUCTION. SOW WITH MECHANICAL SPREADER, RAKE MINIMUM TWO (2) PASSES WITH "YORK RAKE" COVER AND COMPACT WITH CULTIPACKER.
- SURFACE PREPARATION TO INCLUDE GROUND LIMESTONE OVER TOPSOIL SURFACE AREA AND COMMERCIAL FERTILIZER IN ACCORDANCE WITH SOIL TEST ANALYSIS. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE; DRAINAGE SWALES AND DITCHES SHALL BE MULCHED AND COVERED WITH A PERFORATED EROSION CONTROL BLANKET FOR THE FULL WIDTH OF THE SWALE OR DITCH. BLANKET SHALL BE JUTE MAT OVER STRAW OR EXCELSTOR MATTING. STABILIZATION OF SLOPES STEEPER THAN 3:1 SHALL BE PLANTED WITH KENTUCKY 31 TALL FESCUE 45lb./ACRE AND CROWN VETCH (SCARIFY AND INOCULATE) 15lb./ACRE INOCULANT FOR CROWN VETCH SHALL BE AT THE RATE OF 6.7 oz. POWDER OR LIQUID CULTURE PER 20lbs. CROWN VETCH.
- ALL OTHER SURFACES SHALL BE UNIFORMLY SOWN AT THE RATE OF 250 lbs./ACRE.
- APPLICATION METHODS: (HYDROSEED)
- SEED, FERTILIZER, LIMESTONE AND MULCH MATERIAL SHALL BE PLACED BY THE FOLLOWING METHODS:
 - THE SEED AND FERTILIZER, OR THE SEED, FERTILIZER AND SUITABLE MULCH SHALL BE MIXED IN THE NEEDED AMOUNT OF WATER TO PRODUCE A SLURRY; APPLIED UNDER PRESSURE AT THE RATE SPECIFIED OR AS DIRECTED WITH HYDRAULIC EQUIPMENT APPROVED PRIOR TO USE.
 - WOOD CELLULOSE MULCH MAY BE APPLIED DURING OR AFTER SEEDING OPERATION. THE WOOD CELLULOSE MULCH IS TO BE INCORPORATED AS AN INTEGRAL PART OF THE SLURRY MIX. IT SHALL BE ADDED AFTER THE SEED AND FERTILIZER HAVE BEEN THOROUGHLY MIXED. LIME, WHEN APPLIED HYDRAULICALLY SHALL BE A SINGLE, SEPARATE OPERATION. WOOD CELLULOSE MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER ACRE.
 - ANY AREA INADEQUATELY COVERED SHALL BE RE-TREATED.

TEMPORARY SEEDING

- THE TOPSOIL STOCKPILES SHALL BE HYDROSEED AS FOLLOWS:
 - GROUND LIMESTONE (50lbs./1000 SF)
 - FERTILIZER 10-10-10 (25lbs./1000 SF)
 - SEED-ITALIAN RYE GRASS 40lbs./ACRE.
- MULCH WITH STRAW AT THE RATE OF 50lbs./1000 SF. OR ONE TON PER ACRE. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE.

SEQUENCE OF CONSTRUCTION OPERATION

- NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS 48 HOURS BEFORE ANY WORK BEGINS.
- CONSTRUCT 11"x18" CMP AT INTERSECTION OF ROAD "A" AND ROUTE #175; CONSTRUCT STONE CONSTRUCTION ENTRANCE, CLEAR AND GRUB SEDIMENT TRAPS AND DIKE AREAS.
- CONSTRUCT THE REMAINING SEDIMENT CONTROL MEASURES; SEDIMENT TRAPS, DIVERSION AND INTERCEPTOR DIKES, AND CULVERTS AT THE ROAD CROSSINGS. STABILIZE ALL SEDIMENT CONTROL MEASURES AS PER "SEDIMENT CONTROL NOTES". DIVERSION AND INTERCEPTOR DIKES SHALL UTILIZE TOPSOIL AT SITE.
- CLEAR AND GRUB REMAINING AREAS.
- STRIP AND STOCKPILE TOPSOIL FROM THE ENTIRE SITE.
- BEGIN ROUGH GRADING OF SITE, TOE OF SLOPES SHALL BE A MINIMUM OF 5 FEET FROM THE TOP OF ALL SEDIMENT TRAPS OR 5 FEET FROM THE TOE OF THE PERIMETER/DIVERSION DIKES.
- INSTALL STORM DRAINAGE SYSTEM AND BLOCK STORM DRAIN INLET. (SEE NOTE) DIVERSION DIKE SHALL FUNCTION CONTINUOUSLY AND REINSTALL IMMEDIATELY AFTER INSTALLATION OF STORM DRAIN OUTFALL. PROVIDE BULKHEAD AT END OF PIPE AT END OF EACH WORKING DAY; BLOCK EACH INLET WITH 1" EXTERIOR PLYWOOD HELP IN PLACE WITH SANDBAGS.
- COMPLETE ROAD CONSTRUCTION INCLUDING PAVING; DO NOT REMOVE SEDIMENT MEASURES AT INLETS.
- STABILIZE AND SEED ALL REMAINING DISTURBED AREAS. REMOVE DIVERSION AND INTERCEPTOR DIKE AT THE SAME TIME AS SEEDING AND TOPSOIL PROCEDURES FOR LOTS ARE DONE; REMOVE INLET BLOCK AFTER STABILIZATION HAS BEEN COMPLETED.
- REMOVE SEDIMENT TRAP #1 ONLY AFTER THE DRAINAGE AREA CONTRIBUTING TO IT HAS BEEN STABILIZED.
- COMPLETE REMAINING GRADING AND STABILIZATION AFTER TRAP NO.1 HAS BEEN REMOVED.
- THE STORM WATER MANAGEMENT BASIN SHALL BE CONSTRUCTED BY OTHERS.
- TRAP NO.2 SHALL REMAIN AND FUNCTION UNTIL SECTION 2 IS APPROVED.
- DIKE CHANNEL BETWEEN TRAP #1 AND #2 WILL BE REMOVED AFTER THE AREA HAS BEEN SEED AND STABILIZED. (SEE DETAIL)



CONSTRUCTION SPECIFICATIONS (INTERCEPTOR DIKE)

- ALL DIKES SHALL BE MACHINE COMPACTED.
- ALL INTERCEPTOR DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- INTERCEPTOR DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHEN EITHER THE INTERCEPTOR DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION, AS SPECIFIED BY THE PLANS, SHALL BE: (1) IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATERWAY, AND THE AREA TO BE STABILIZED SHALL BE THE CHANNEL (FLOW AREA); OR (2) THE FLOW AREA SHALL BE LINED WITH STONE THAT MEETS MSHA SIZE NO.2 OR AASHTO SIZE NO.2 OR 24 WHICH IS PLACED IN A 3 INCH THICK LAYER AND PRESSED INTO THE SOIL. THE AREA COVERED BY THE STONE SHALL BE AS SHOWN ON STANDARD DRAWING DD-1.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED.

TYPICAL CROSS SECTION OUTLET WEIR
DETAIL - STONE OUTLET SEDIMENT TRAP
Not To Scale

#844

Reviewed for Howard S.C.D. Name
and meets Technical Requirements
James J. Becken Date 11-5-80
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. Date 11-5-80

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. Mc Cord
KENNETH A. MC CORD
Registered Engineer
No. 1974

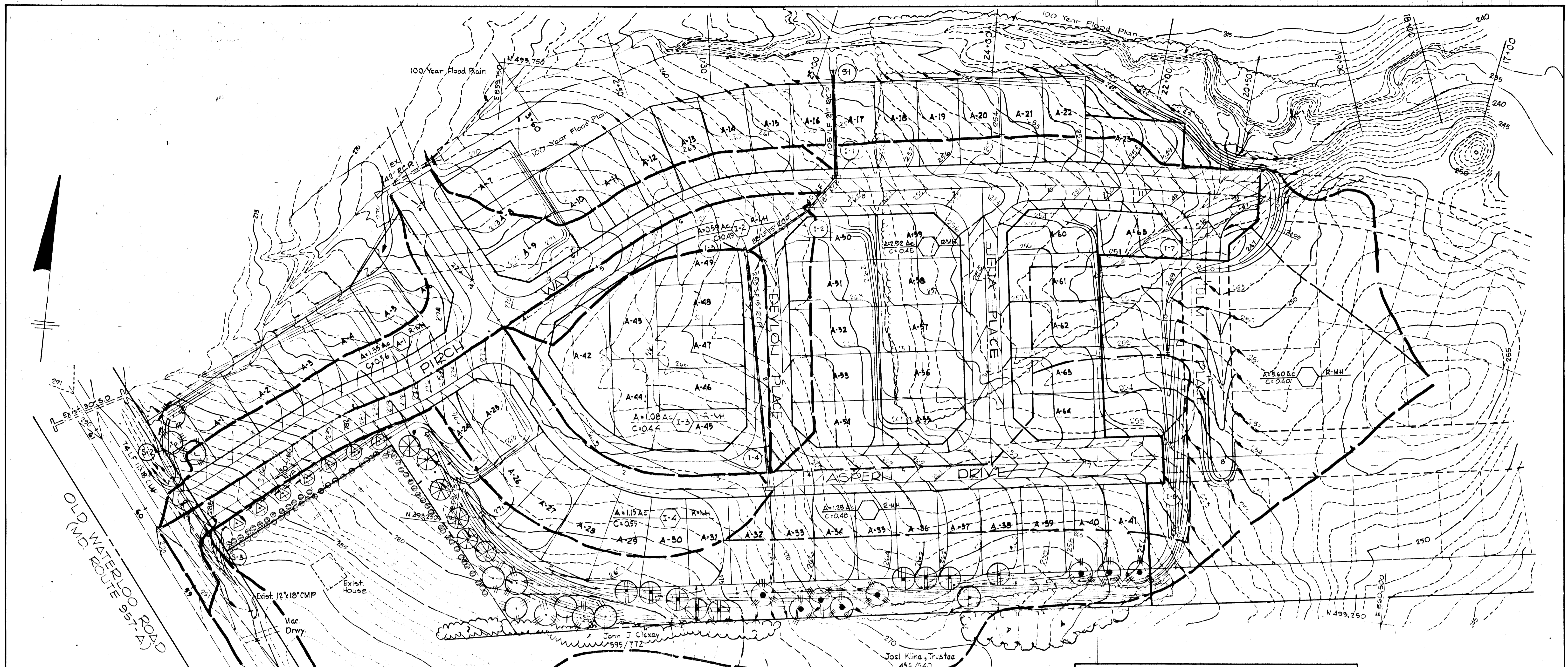
DEPARTMENT OF PUBLIC WORKS
William E. Poy 11-18-80
CHIEF, BUREAU OF ENGINEERING
OFFICE OF PLANNING AND ZONING
William E. Poy 11-7-80
CHIEF, DIVISION OF LAND DEVELOPMENT

CERTIFICATION BY THE DEVELOPER
"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."
James J. Becken 7/8/80
Signature of Developer Date

CERTIFICATION BY THE ENGINEER
"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."
Kenneth A. Mc Cord 7/9/80
Signature of Engineer Date

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
5701 OLD COURT ROAD UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA I
LOTS A-1 TO A-67
A RESUBDIVISION OF PART OF PARCEL "A"
SEDIMENT CONTROL
1st. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown Date: 7/10/80



PLAN
Scale: 1" = 50'

PLANT LIST			
Code	Name	Size	Quant.
⊕	FRAXINUS LANCEOLATA - GREEN ASH	2 1/2" Cal.	10
⊙	PINUS STROBUS - WHITE PINE	8'-10"	10
⊗	PINUS THUNBERGII - JAPANESE BLACK PINE	8'-10"	2
⊕	PRUNUS SARGENTII - SARGENT CHERRY	2 1/2" Cal.	7
⊗	QUERCUS PALUSTRIS - PIN OAK	2 1/2" Cal.	6
⊕	EXISTING TREES (EVERGREENS)	-	60

⊕ Minimum 2 1/2" Caliper
⊗ Do Not Disturb or Damage

Reviewed for Howard S.C.D. and meets Technical Requirements

#844
Signature of U.S. Soil Conservation Service
Date 11-5-80

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

Approved Signature of Howard S.C.D. Date 11-5-80

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. McLeod
Registered Engineer
No. 1974

DEPARTMENT OF PUBLIC WORKS
Kenneth A. McLeod
CHIEF, BUREAU OF ENGINEERS
DATE 11-18-80
OFFICE OF PLANNING AND ZONING
John T. Michael
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 11-7-80

CERTIFICATION BY THE DEVELOPER
"I certify that all development and/or construction will be done according to this plan of development and plan of 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."
Signature of Developer
Date 7/8/80

CERTIFICATION BY THE ENGINEER
"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."
Signature of Engineer
Date 7/5/80

OWNER AND DEVELOPER
DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA I
LOTS A-1 TO A-67
A RESUBDIVISION OF PART OF PARCEL "A"
LANDSCAPE PLAN
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown. Date: 7/10/80