GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS. IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS - TELEPHONE: 992-2439

STREET LIGHTS

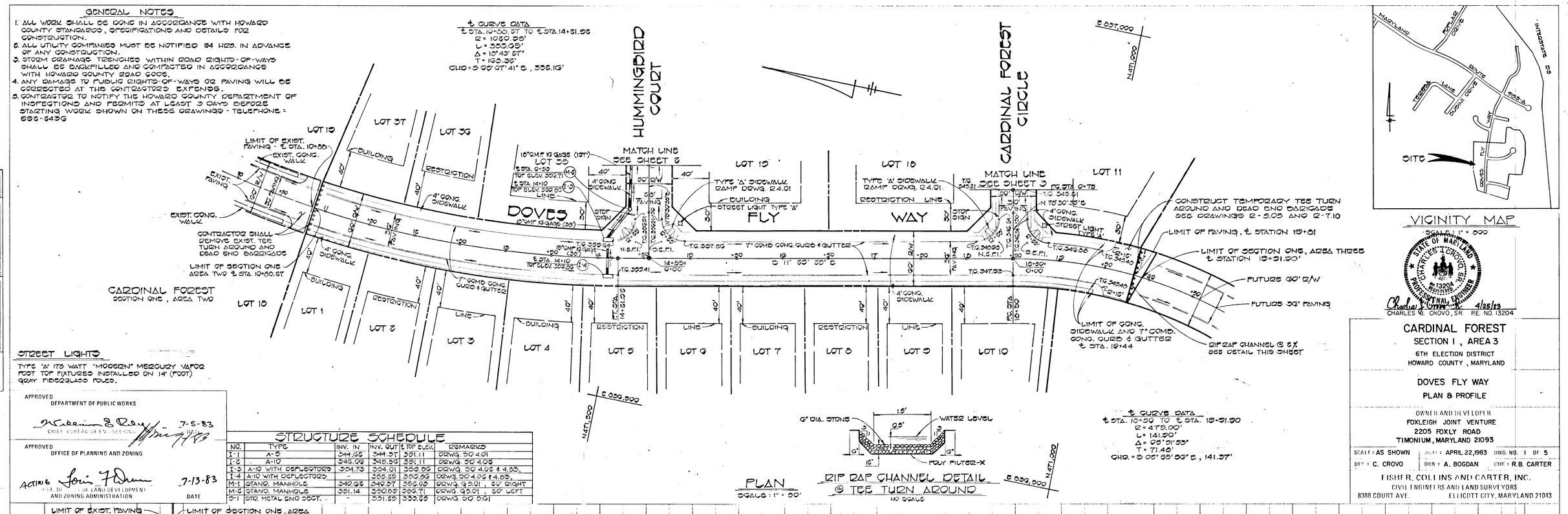
TYPE 'A' 175 WATT "MODERN" MERCURY VAPOR FOOT TOP FIXTURES INSTALLED ON 14' (FOOT) GRAY FIBERGLASS POLES.

APPROVED
DEPARTMENT OF PUBLIC WORKS
7-5-83
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED
OFFICE OF PLANNING AND ZONING
ACTING
7-13-83
DIRECTOR, OFFICE OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	℄ TOP ELEV.	REMARKS
I-1	A-5	344.65	344.37	351.11	DRWG. 50 4.01
I-2	A-10	346.06	345.56	351.11	DRWG. 50 4.05
I-3	A-10 WITH DEFLECTORS	354.73	354.01	359.86	DRWG. 50 4.05 & 4.83,
I-4	A-10 WITH DEFLECTORS	-	355.25	359.86	DRWG. 50 4.05 & 4.83,
M-1	STAND. MANHOLE	340.66	340.37	356.05	DRWG. 4.01, 50' RIGHT
M-2	STAND. MANHOLE	351.14	350.85	356.71	DRWG. 4.01, 50' LEFT
S-1	STD. METAL END SECT.	-	351.25	353.25	DRWG. 50 5.61



PLAN

SCALE: 1" = 50'

RIP RAP CHANNEL DETAIL @ TEE TURN AROUND

NO SCALE

℄ CURVE DATA

℄ STA. 10+00 TO ℄ STA. 19+51.90
R = 475.00'
L = 141.90'
Δ = 05° 51' 33"
T = 71.40'
CHD. = S 05° 55' 33" E, 141.37'

VICINITY MAP

SCALE: 1" = 600'

STATE OF MARYLAND — CHARLES I. CROVO — No. 13204 — PROFESSIONAL ENGINEER

4/25/13
CHARLES I. CROVO, SR. P.E. NO. 13204

CARDINAL FOREST

SECTION 1, AREA 3

6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

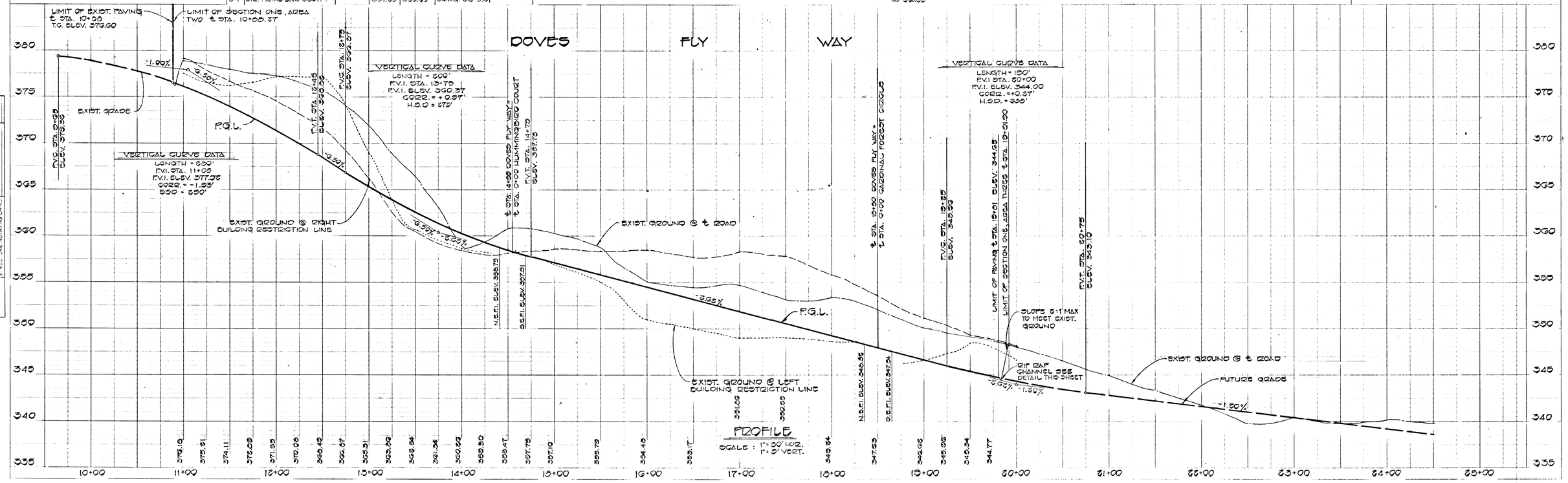
DOVES FLY WAY

PLAN & PROFILE

OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
2205 FOXLY ROAD
TIMONIUM, MARYLAND 21093

SCALE: AS SHOWN | DATE: APRIL 22, 1983 | DWG. NO. 1 OF 5
DES: C. CROVO | DRN: A. BOGDAN | CHK: R.B. CARTER

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



PROFILE

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

F-83-100

128

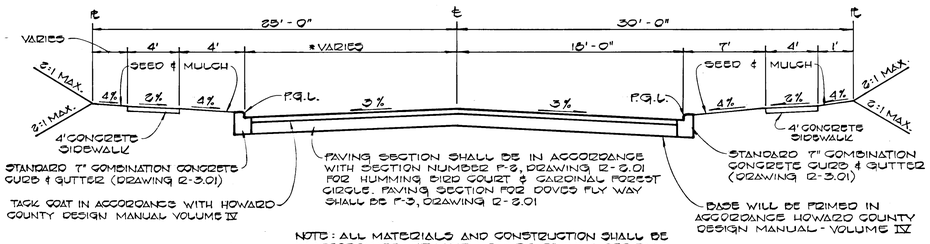
CARDINAL FOREST CIRCLE
℄ STA. 0+00 TO ℄ STA. 3+55

HUMMINGBIRD COURT
℄ STA. 0+00 TO ℄ STA. 5+68.71

TYPE OF TRAFFICWAY	DESIGN SPEED	ZONED
LOCAL AND CULDESAC	30 MPH	R-20

DOVES FLY WAY
℄ STA. 10+88 TO ℄ STA. 13+01

TYPE OF TRAFFICWAY	DESIGN SPEED	ZONED
RESIDENTIAL COLLECTOR	35 MPH	R-20



STANDARD 7" COMBINATION CONCRETE CURB & GUTTER (DRAWING R-3.01)

TACK COAT IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV

PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2, DRAWING R-3.01 FOR HUMMING BIRD COURT & CARDINAL FOREST CIRCLE. PAVING SECTION FOR DOVES FLY WAY SHALL BE P-3, DRAWING R-3.01

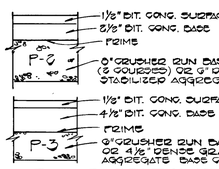
STANDARD 7" COMBINATION CONCRETE CURB & GUTTER (DRAWING R-3.01)

BASE WILL BE PRIMED IN ACCORDANCE HOWARD COUNTY DESIGN MANUAL - VOLUME IV

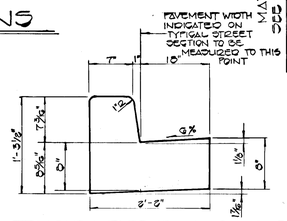
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

* PAVING WIDTH FOR HUMMINGBIRD COURT = 28'-0"
* PAVING WIDTH FOR CARDINAL FOREST CIRCLE = 30'-0"

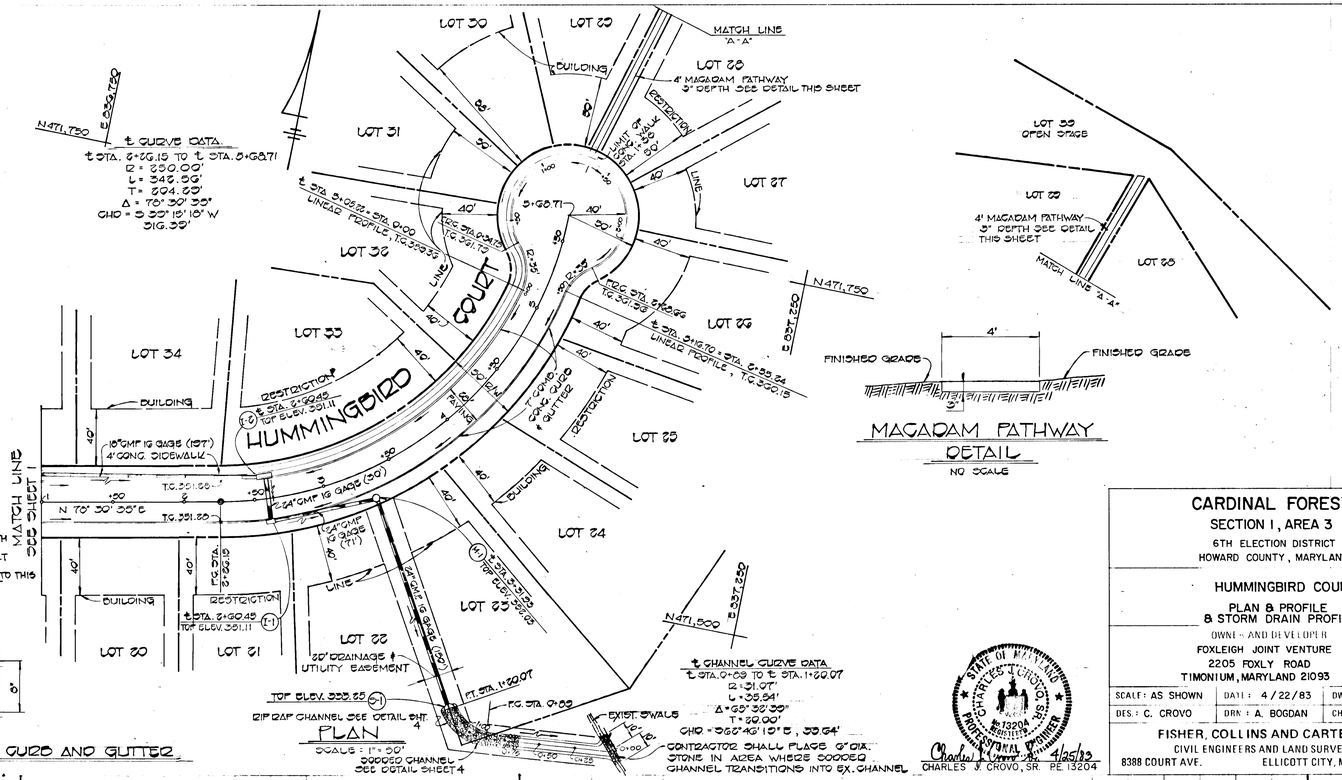
TYPICAL ROADWAY - HALF SECTIONS
NO SCALE



PAVING SECTIONS P-2 & P-3
NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



PLAN
SCALE: 1" = 50'
SODDED CHANNEL SEE DETAIL SHEET 4

MAGADAM PATHWAY DETAIL
NO SCALE

APPROVED
DEPARTMENT OF PUBLIC WORKS
7-5-83

APPROVED
OFFICE OF PLANNING AND ZONING
ELDIVON AND ZONING ADMINISTRATION — DATE 7-13-83

STATE OF MARYLAND — CHARLES J. CROVO — No. 13204 — PROFESSIONAL ENGINEER
4/25/83
CHARLES J. CROVO, SR. PE 13204

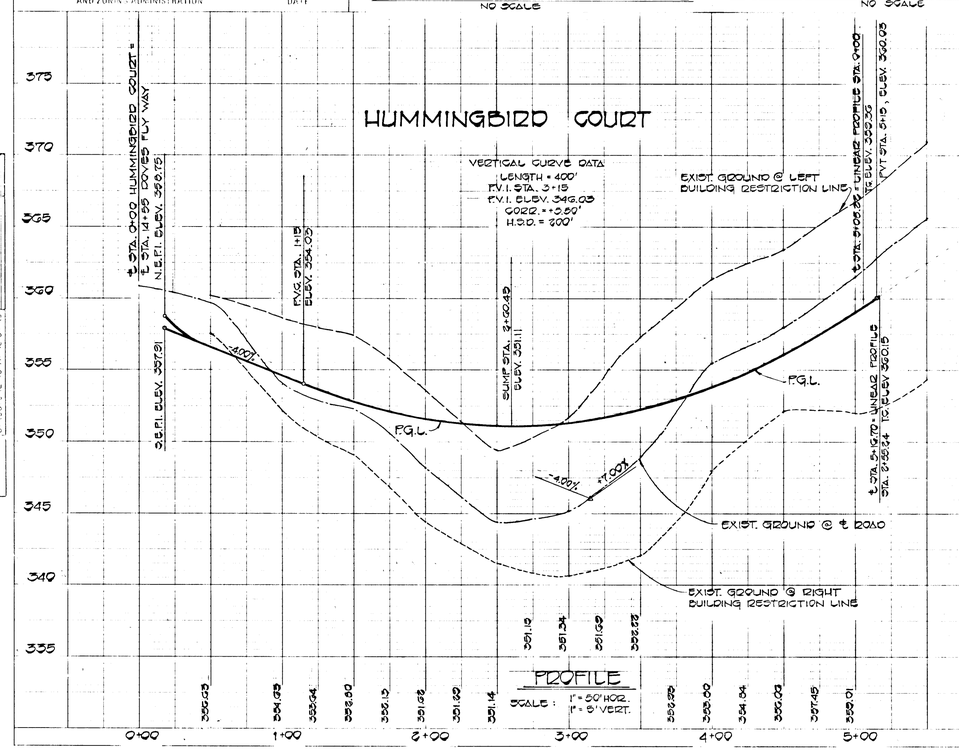
CARDINAL FOREST
SECTION 1, AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

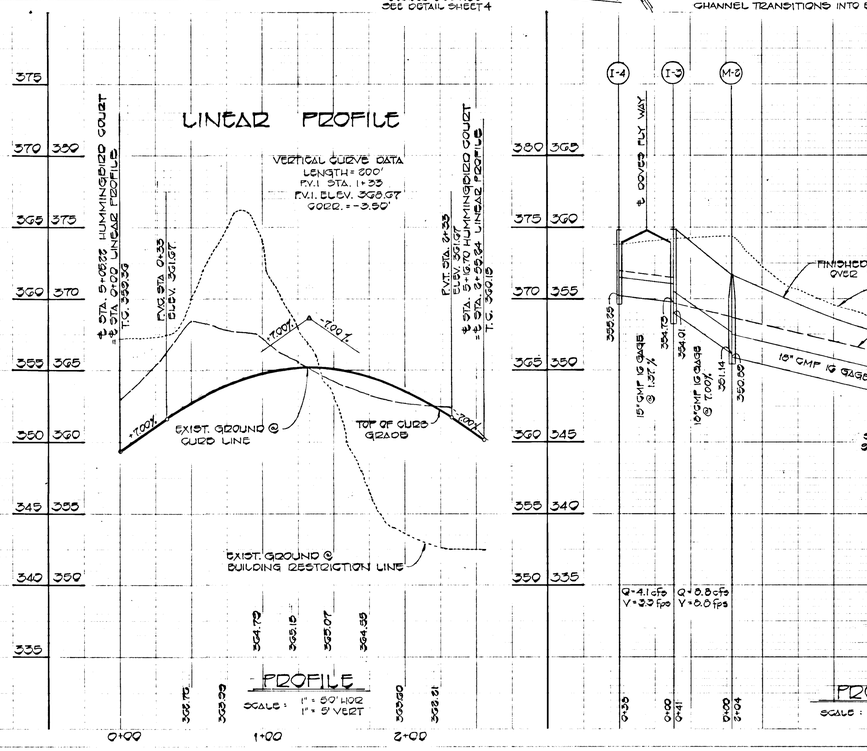
HUMMINGBIRD COURT
PLAN & PROFILE
& STORM DRAIN PROFILES

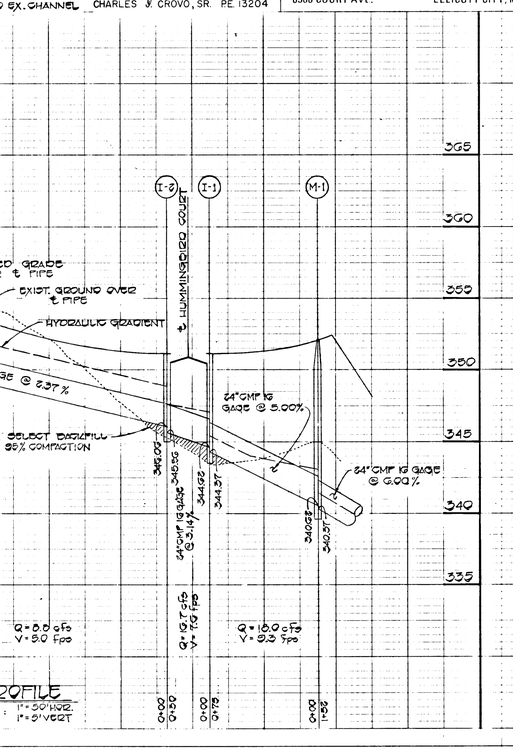
OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
2205 FOXLY ROAD
TIMONIUM, MARYLAND 21093

SCALE: AS SHOWN	DATE: 4/22/83	DWG. NO. 2 OF 5
DES.: C. CROVO	DRN.: A. BOGDAN	CHK.: R. B. CARTER

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

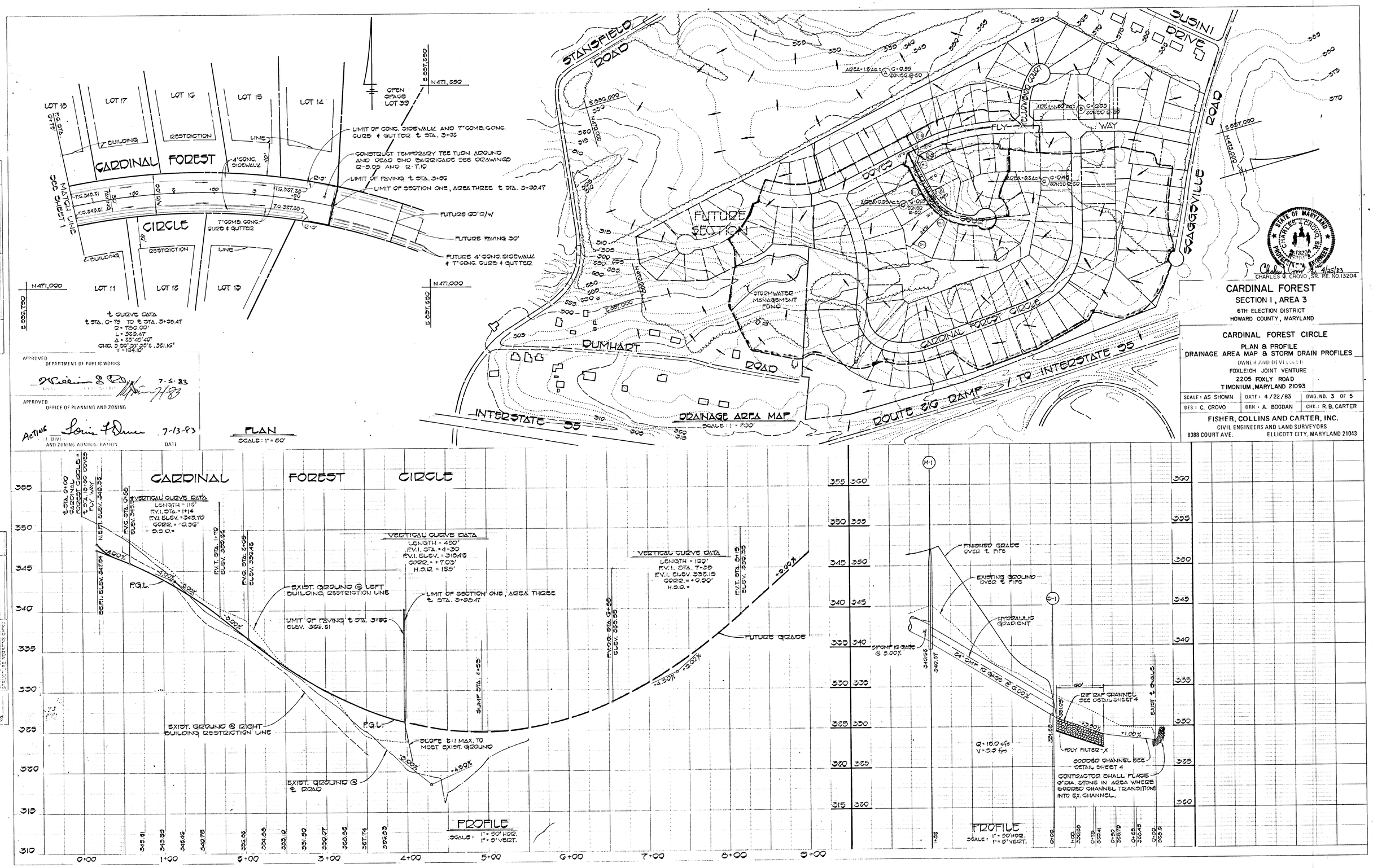






#728

F-83-198


LOT 18
LOT 17
LOT 16
LOT 15
LOT 14
LOT 11
LOT 12
LOT 13
BUILDING RESTRICTION LINE
CARDINAL FOREST CIRCLE
4' CONC. SIDEWALK
OPEN SPACE LOT 39
LIMIT OF CONC. SIDEWALK AND 7" COMB. CONC. CURB & GUTTER ℄ STA. 3+55
CONSTRUCT TEMPORARY TEE TURN AROUND AND DEAD END BARRICADE SEE DRAWINGS R-3.05 AND R-7.10
LIMIT OF PAVING ℄ STA. 3+55
LIMIT OF SECTION ONE, AREA THREE ℄ STA. 3+30.47
FUTURE 60' R/W
FUTURE PAVING 30'
FUTURE 4' CONC. SIDEWALK & 7" CONC. CURB & GUTTER
7" COMB. CONC. CURB & GUTTER
MATCH LINE SEE SHEET 1
℄ CURVE DATA
℄ STA. 0+75 TO ℄ STA. 3+30.47
R = 700.00'
L = 323.47
Δ = 25°45'40"
CHD. S 59°30'50"E, 321.16'
T = 164.10'
APPROVED
DEPARTMENT OF PUBLIC WORKS
7-5-83
APPROVED
OFFICE OF PLANNING AND ZONING
ACTING
7-13-83
DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
DATE
PLAN
SCALE: 1" = 50'
STANSFIELD ROAD
SUSINI DRIVE
SCAGGSVILLE ROAD
YELLOWWOOD COURT
FLY WAY
DOVES COURT
FUTURE SECTION
STORMWATER MANAGEMENT POND
CARDINAL FOREST CIRCLE
DUMHART ROAD
INTERSTATE 95
ROUTE 216 RAMP
TO INTERSTATE 95
DRAINAGE AREA MAP
SCALE: 1" = 700'
STATE OF MARYLAND
CHARLES G. CROVO, SR.
No. 13204
PROFESSIONAL ENGINEER
4/25/83
CHARLES G. CROVO, SR. PE. NO. 13204
CARDINAL FOREST
SECTION 1, AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CARDINAL FOREST CIRCLE
PLAN & PROFILE
DRAINAGE AREA MAP & STORM DRAIN PROFILES
OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
2205 FOXLY ROAD
TIMONIUM, MARYLAND 21093
SCALE: AS SHOWN
DATE: 4/22/83
DWG. NO. 3 OF 5
DES.: C. CROVO
DRN.: A. BOGDAN
CHK.: R.B. CARTER
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE.
ELLICOTT CITY, MARYLAND 21043
CARDINAL FOREST CIRCLE
℄ STA. 0+00 CARDINAL FOREST CIRCLE = ℄ STA. 0+50 DOVES FLY WAY
VERTICAL CURVE DATA
LENGTH = 112'
P.V.I. STA. = 1+14
P.V.I. ELEV. = 343.70
CORR. = -0.56'
H.S.O. =
VERTICAL CURVE DATA
LENGTH = 450'
P.V.I. STA. = 4+30
P.V.I. ELEV. = 318.48
CORR. = +7.03'
H.S.O. = 195'
VERTICAL CURVE DATA
LENGTH = 190'
P.V.I. STA. 7+35
P.V.I. ELEV. 332.15
CORR. = +0.90'
H.S.O. =
P.G.L.
EXIST. GROUND @ LEFT BUILDING RESTRICTION LINE
LIMIT OF SECTION ONE, AREA THREE ℄ STA. 3+30.47
LIMIT OF PAVING ℄ STA. 3+55 ELEV. 320.61
SUMP STA. 4+35
FUTURE GRADE
EXIST. GROUND @ RIGHT BUILDING RESTRICTION LINE
SLOPE 3:1 MAX. TO MEET EXIST. GROUND
EXIST. GROUND @ ℄ ROAD
PROFILE
SCALE: 1" = 50' HOR. 1" = 5' VERT.
FINISHED GRADE OVER ℄ PIPE
EXISTING GROUND OVER ℄ PIPE
INVERT GRADIENT
24" CMP IS GRADE @ 5.00%
12" RAP CHANNEL SEE DETAIL SHEET 4
Q = 15.0 cfs
V = 3.5 fps
POLY FILTER-X
GOODED CHANNEL SEE DETAIL SHEET 4
CONTRACTOR SHALL PLACE 6" DIA. STONES IN AREA WHERE GOODED CHANNEL TRANSITIONS INTO EX. CHANNEL.
EXIST. ℄ SWALE
PROFILE
SCALE: 1" = 50' HOR. 1" = 5' VERT.

#728

F-83-100

I. SITE PREPARATION
Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

Material
The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 5 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

Placement
Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction
95% of Standard Proctor by A.S.T.M. 698

Core Trench
Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL
Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

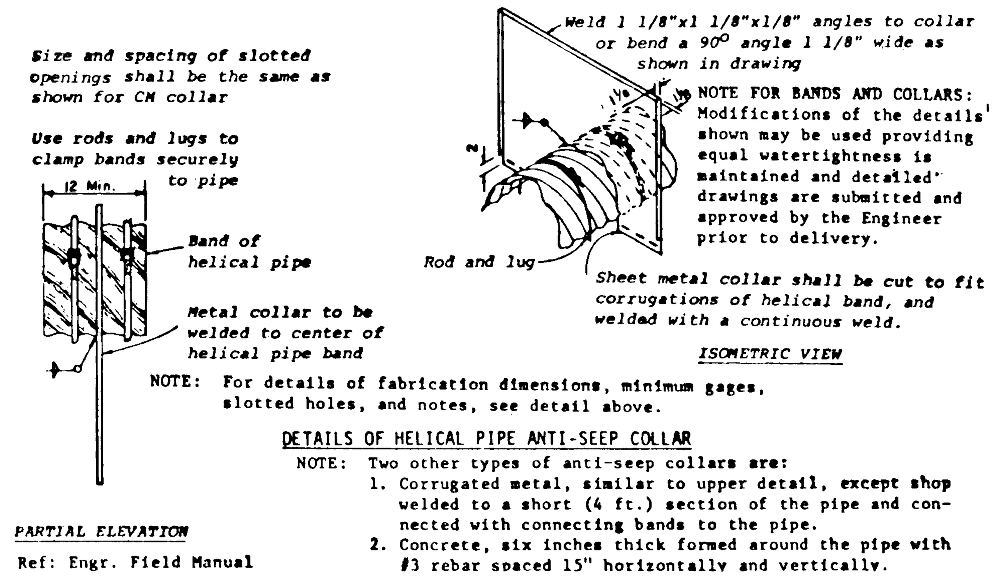
1. Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE
Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VI. STABILIZATION
All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after finish grading.

All exposed areas of the embankment and pond shall be stabilized by:

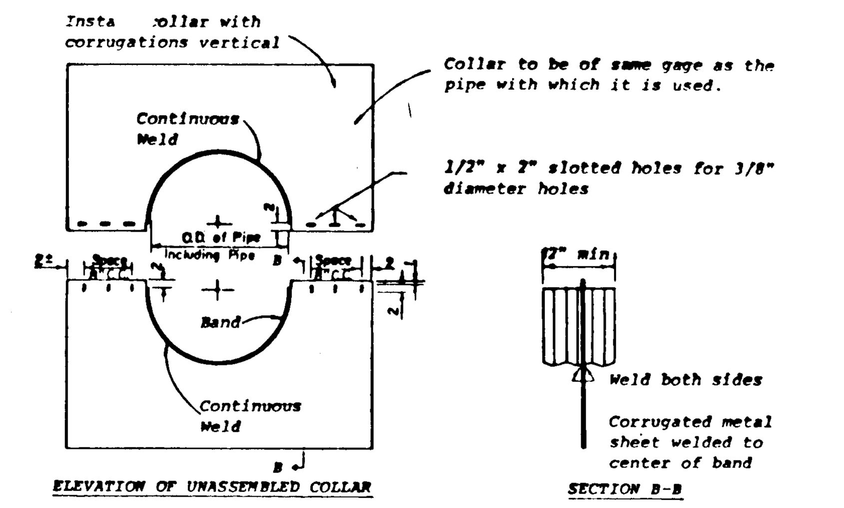
a. Spreading 4" topsoil
b. Working in 1 ton of ground limestone and 1,000 pounds of 10-10-10 fertilizer per acre.
c. Seed with 40 lbs./acre of "Kentucky 31" tall fescue, and 15 lbs./acre of Crownvetch inoculated.
d. Mulch with 1-1/2 tons straw per acre.
e. Tie down mulch with emulsified asphalt @ 348 gallons/acre.



NOTE: For details of fabrication dimensions, minimum gages, slotted holes, and notes, see detail above.

DETAILS OF HELICAL PIPE ANTI-SEEP COLLAR

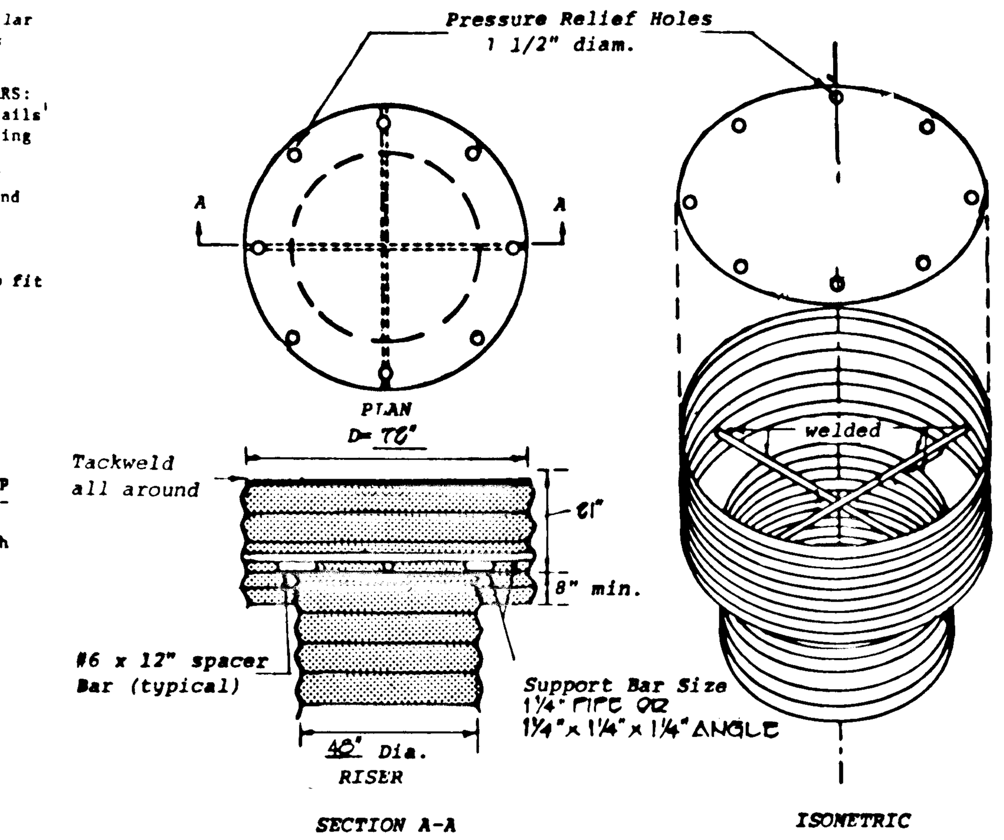
NOTE: Two other types of anti-seep collars are:
1. Corrugated metal, similar to upper detail, except shop welded to a short (4 ft.) section of the pipe and connected with connecting bands to the pipe.
2. Concrete, six inches thick formed around the pipe with #3 rebar spaced 15" horizontally and vertically.



NOTES FOR COLLARS:
1. All materials to be in accordance with construction and construction material specifications.
2. When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
3. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

CORRUGATED METAL ANTI-SEEP COLLAR DETAIL

NOT TO SCALE



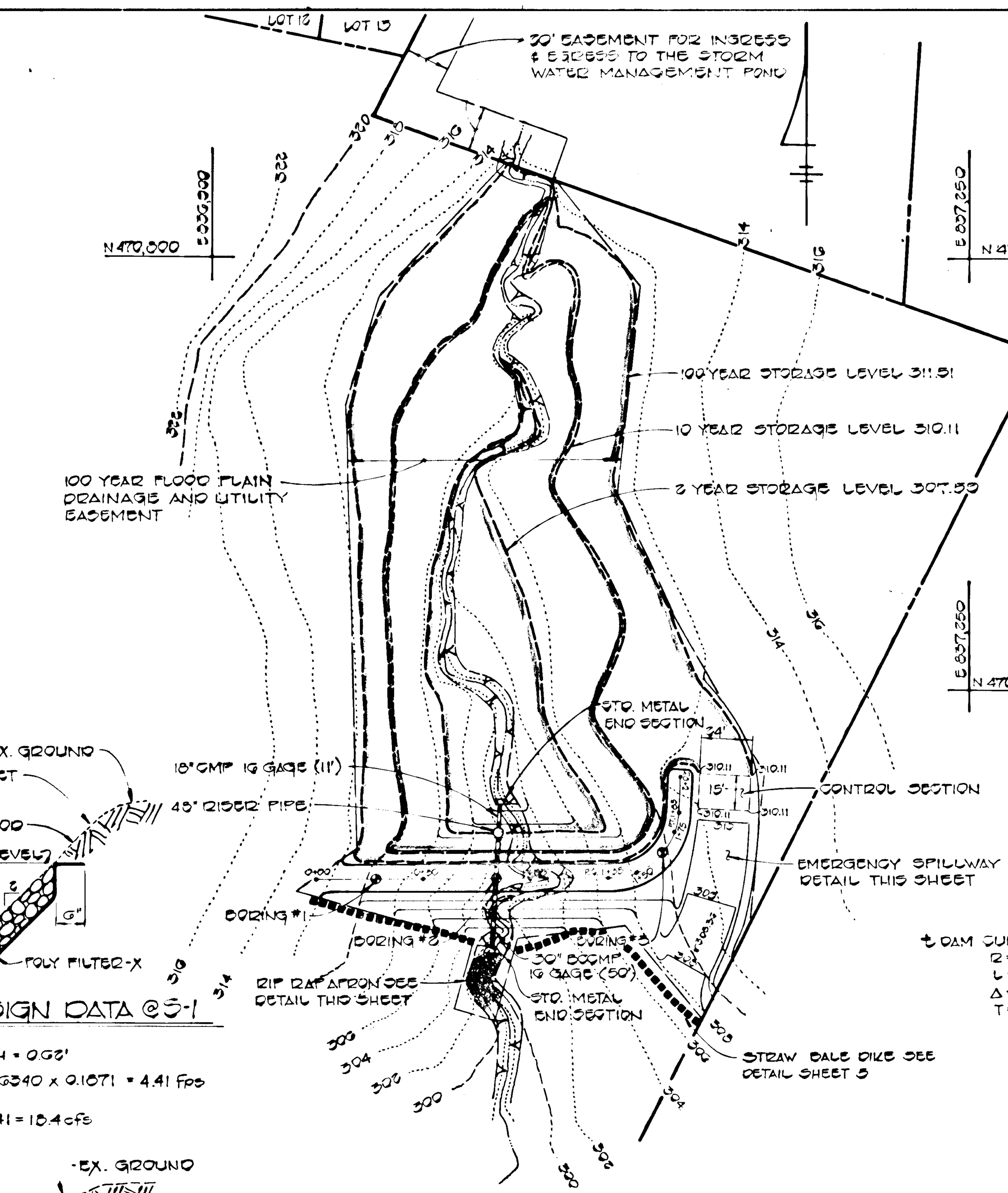
Top is 10 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

Cylinder is 12 gage corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:
1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

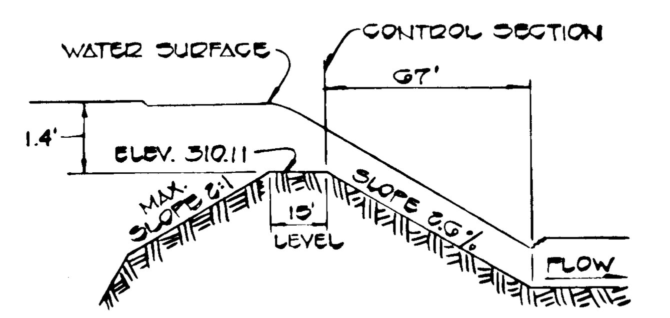
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE DETAIL

NOT TO SCALE



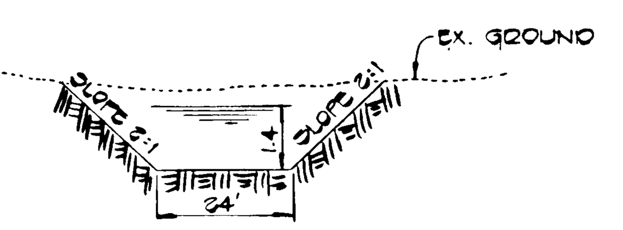
STORM WATER MANAGEMENT POND

SCALE : 1" = 50'



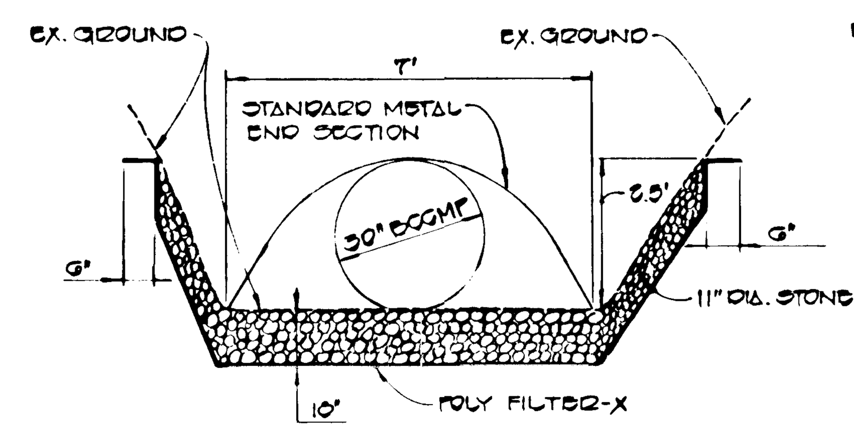
PROFILE ALONG ℄ EARTH SPILLWAY

NO SCALE



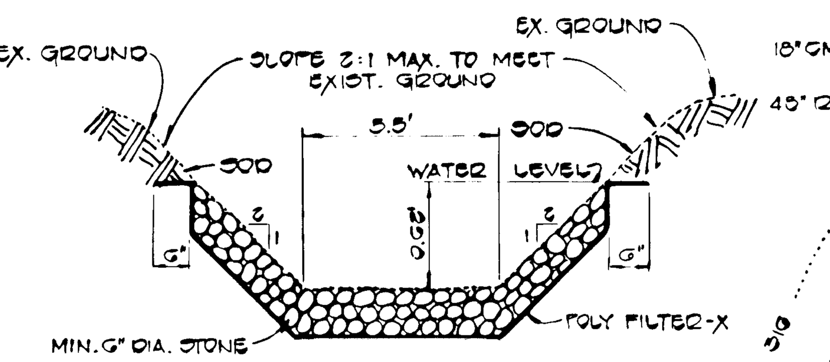
CROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION

NO SCALE



RIP RAP APRON DETAIL @ STORM WATER MANAGEMENT POND OUTFALL

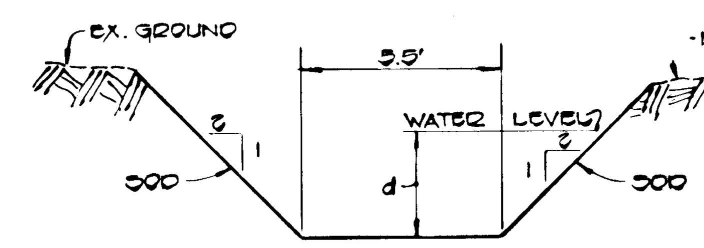
NO SCALE



RIP RAP CHANNEL & DESIGN DATA @ S-1

A = 4.18□'
P = 8.38'
R = 0.5040
R⅔ = 0.6340
S = 3.50 %
S½ = 0.1871

N = 0.04
WATER DEPTH = 0.63'
$V = \frac{1.486}{0.04} \times 0.6340 \times 0.1871 = 4.41$ Fps
Q = A x V
Q = 4.18 x 4.41 = 18.4 cfs



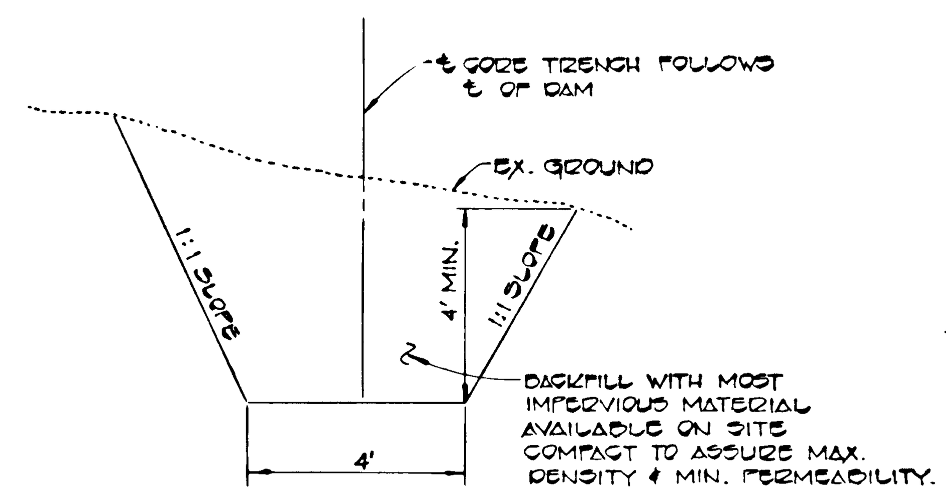
SODDED CHANNEL DETAIL @ S-1

NO SCALE

SODDED CHANNEL DESIGN DATA @ S-1

A = 5.25□'
P = 8.66'
R = 0.5926
R⅔ = 0.7055
S = 1.00%
S½ = 0.100
n = 0.03
d = 0.75'
$V = \frac{1.486}{0.03} \times 0.7055 \times 0.1000 = 3.5$ fps
Q = A x V
Q = 5.25 x 3.5 = 18.4 cfs

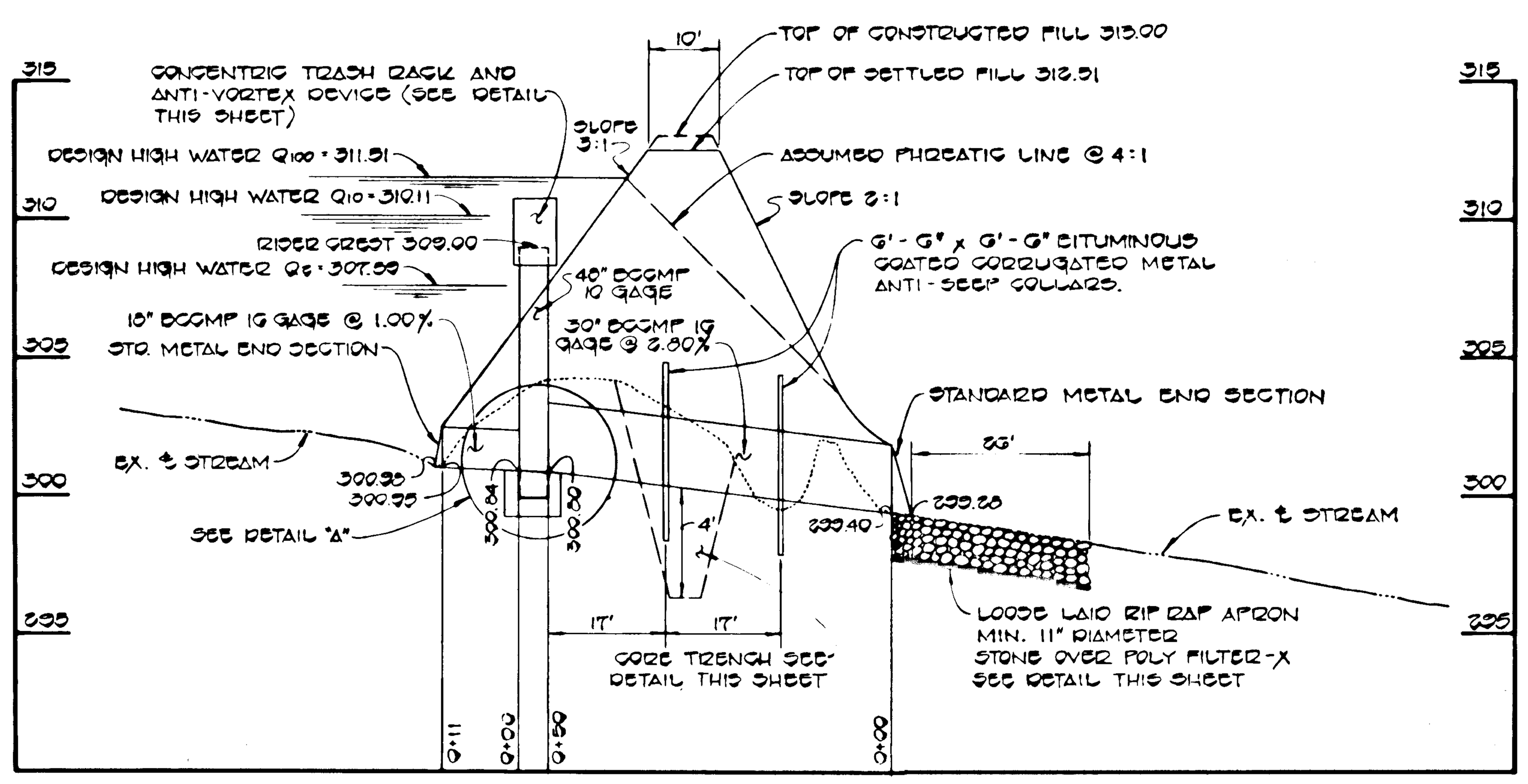
A = 3.40□'
P = 7.82'
R = 0.4348
R⅔ = 0.5739
S = 3.50%
S½ = 0.1871
n = 0.03
d = 0.58'
$V = \frac{1.486}{0.03} \times 0.5739 \times 0.1871 = 5.3$ fps
Q = A x V = 3.4 x 5.3 = 18.0 cfs



CORE TRENCH DETAIL

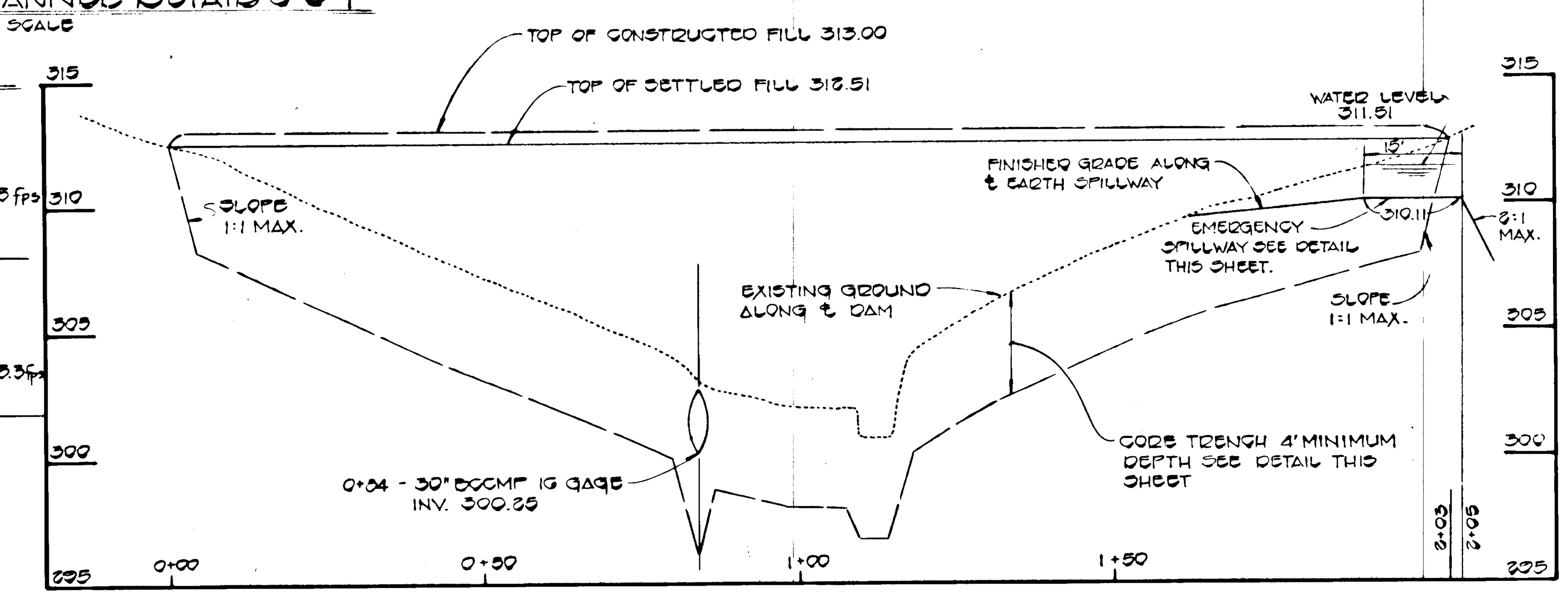
NO SCALE

NOTES:
1.) ALL PIPE JOINTS SHALL BE WATERTIGHT.
2.) HAZARD CLASSIFICATION OF POND CLASS "A".
3.) THE 18" AND 30" B.C.C.M.P. SHALL HAVE ½" x 2⅔" CORRUGATION PATTERN.
4.) ALL WELDS SHALL BE CONTINUOUS AROUND DIAMETER OF PIPE.



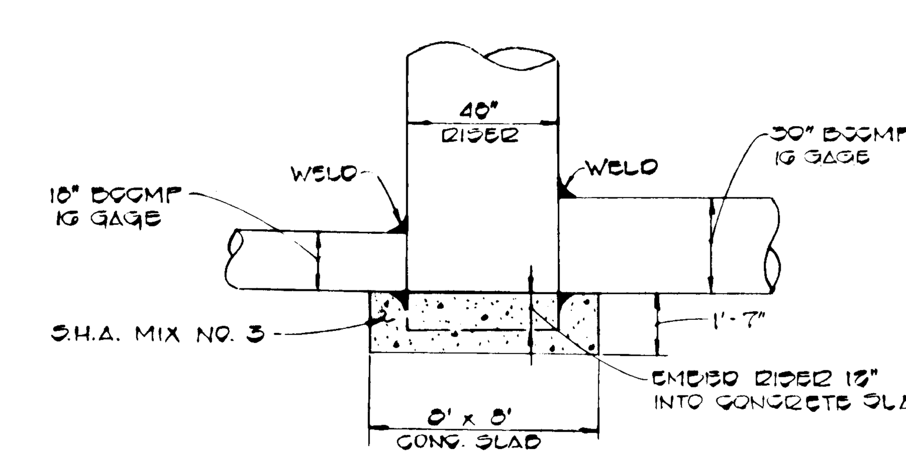
STORM WATER MANAGEMENT POND PROFILE

SCALE : 1" = 20' HOR. 1" = 5' VERT.



PROFILE ALONG ℄ DAM

SCALE : 1" = 20' HOR. 1" = 5' VERT.



DETAIL "A"

NO SCALE

DEVELOPER'S CERTIFICATE

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

John Mikolasko 6/28/83
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION".

Charles J. Crone Jr. 6/28/83
SIGNATURE OF ENGINEER DATE

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Robert W. Ziehm 7-1-83
Howard Soil Conservation District Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

7-1-83
U.S. Soil Conservation Service Date

APPROVED:
DEPARTMENT OF PUBLIC WORKS

7-5-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:
OFFICE OF PLANNING AND ZONING

ACTING 7-13-83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

#728

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
6330 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

STORM WATER MANAGEMENT POND
PROFILES AND DETAILS

CARDINAL FOREST

SECTION ONE, AREA THREE
6TH ELECTION DISTRICT HOWARD COUNTY, MD.
SCALE: AS SHOWN APRIL 22, 1983
SHEET 4 OF 5

F-83-108

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. 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 6/28/83

ENGINEER'S CERTIFICATE

I HEREBY 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 6/28/83

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 7-1-83

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

DISTRICT COORDINATOR, HOWARD SOIL CONSERVATION DISTRICT — DATE 7-1-83

APPROVED: DEPARTMENT OF PUBLIC WORKS.

CHIEF, BUREAU OF ENGINEERING — DATE 7-5-83

APPROVED: OFFICE OF PLANNING AND ZONING

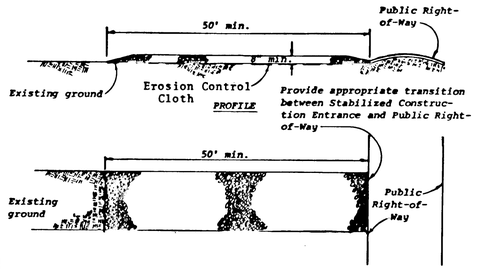
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-13-83

SEDIMENT CONTROL NOTES

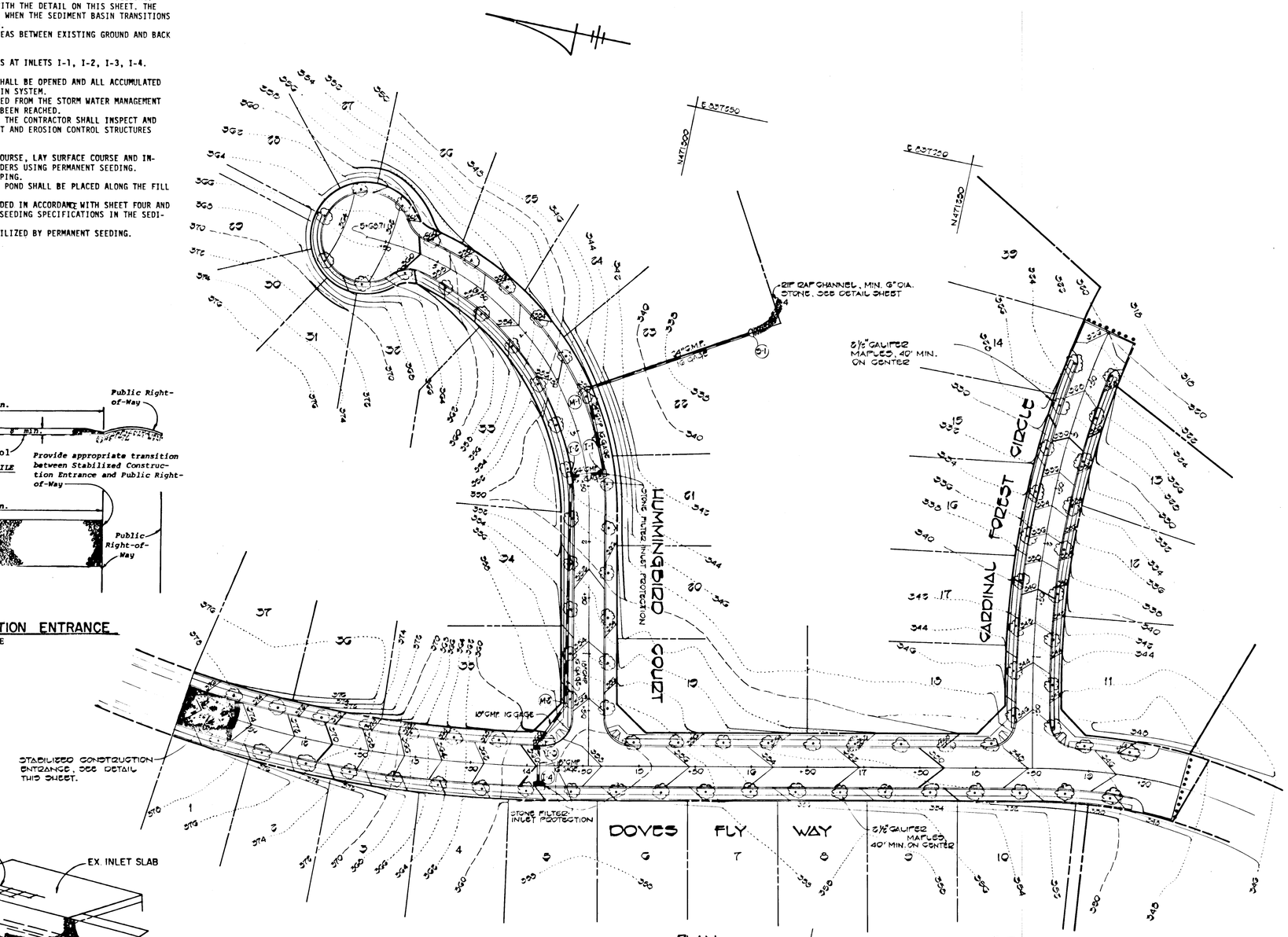
1. Specifications for the Sediment Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
2. The developer shall notify the Howard County Office of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-2433).
3. Sediment control structures to be constructed prior to any on-site grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
4. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits. (992-2433).
5. All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
   1. Site Preparation
      A. Harrow or disc in areas proposed to be seeded the following materials
         1) Pulverized limestone at 2 tons/acre.
         2) Commercial fertilizer 10-10-10 at 3/4 tons/acre.
         3) Super phosphate at 600 lbs./acre.
   2. Seeding
      A. Sow the following seed mixture at the rate of 200 lbs./acre with a mechanical spreader.
         1) Temporary: Italian or Perrenial Rye Grass
         2) Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass and 20% Penn Lawn Creeping Fescue.
      B. The seeded area shall then be raked with a York Rake (a minimum of 2 passes) covered and compacted with Cultipacker or other approved method.
   3. Mulching
      A. Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 - 2 tons/acre.
      B. Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y. or mulch netting.
6. A grading plan must be developed by the builder and approved before beginning construction of dwellings.

CONSTRUCTION SEQUENCE

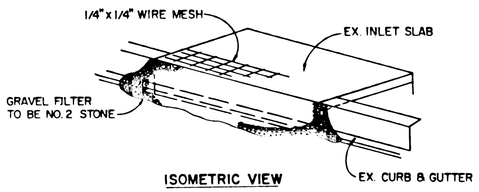
1. OBTAIN GRADING PERMIT.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
3. CONSTRUCT STORM WATER MANAGEMENT POND AND STABILIZE USING TEMPORARY SEEDING.
4. THE 18" CMP SHALL BE BLOCKED IN ACCORDANCE WITH THE DETAIL ON THIS SHEET. THE 18" CMP SHALL REMAIN BLOCKED UNTIL SUCH TIME WHEN THE SEDIMENT BASIN TRANSITIONS TO FUNCTION AS A STORM WATER MANAGEMENT POND.
5. GRADE ROADS TO SUBGRADE STABILIZING SLOPE AREAS BETWEEN EXISTING GROUND AND BACK OF CURB USING PERMANENT SEEDING.
6. CONSTRUCT STORM DRAIN SYSTEM.
7. INSTALL STONE FILTER INLET PROTECTION DEVICES AT INLETS I-1, I-2, I-3, I-4.
8. CONSTRUCT CONCRETE CURB AND LAY BASE COURSE.
9. UPON STABILIZATION OF GRADED AREAS, INLETS SHALL BE OPENED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM DRAIN SYSTEM.
10. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE STORM WATER MANAGEMENT POND WHEN THE CLEANOUT ELEVATION 307.50 HAS BEEN REACHED.
11. DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
12. REMOVE STONE CONSTRUCTION ENTRANCE.
13. CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE, LAY SURFACE COURSE AND INSTALL CONCRETE SIDEWALK. STABILIZE ALL SHOULDERS USING PERMANENT SEEDING.
14. THE SEDIMENT BASIN SHALL BE DEWATERED BY PUMPING.
15. THE SEDIMENT FROM THE STORM WATER MANAGEMENT POND SHALL BE PLACED ALONG THE FILL SLOPE AT HUMMINGBIRD COURT.
16. THE STORM WATER MANAGEMENT POND SHALL BE GRADED IN ACCORDANCE WITH SHEET FOUR AND STABILIZED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS IN THE SEDIMENT CONTROL NOTES. INSTALL RIP RAP APRONS.
17. ALL DISTURBED AREAS SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.



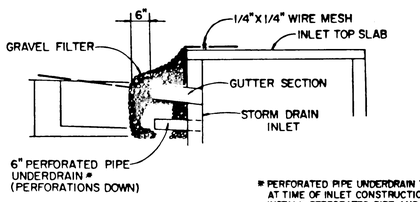
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



PLAN
SCALE: 1" = 50'



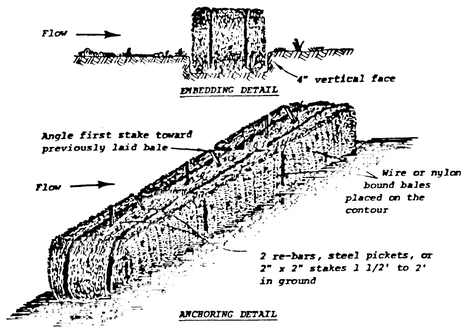
ISOMETRIC VIEW



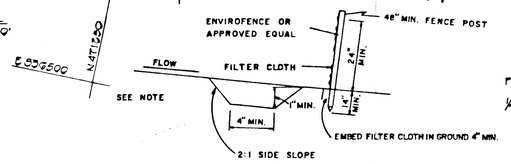
SECTION VIEW

* PERFORATED PIPE UNDERDRAIN TO BE INSTALLED AT TIME OF INLET CONSTRUCTION. DO NOT INSTALL PERFORATED PIPE AND STONE BELOW GROUND IF INLET AND/OR PAVING ARE CONSTRUCTED

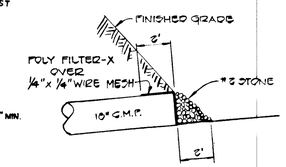
STONE FILTER INLET PROTECTION DETAIL
NO SCALE



STRAW BALE DIKE



SECTION
SILT FENCE DETAIL
NOT TO SCALE



BLOCKING DETAIL FOR 18" C.M.P. AT STORM WATER MANAGEMENT POND
NO SCALE

SITE ANALYSIS

TOTAL AREA OF SECTION ONE, AREA THREE - 13.7 Ac.±
IMPERVIOUS AREA - 1.4 Ac.±
AREA TO BE VEGETATED - 1.9 Ac.±
UNDISTURBED AREA - 10.4 Ac.±

OWNER & DEVELOPER

FORESIGH JOINT VENTURE
SUITE 102, 5501 TWIN KNOLLS RD.
COLUMBIA, MARYLAND 21045

GRADING & SEDIMENT CONTROL PLAN

CARDINAL FOREST

SECTION ONE, AREA THREE

6TH ELECTION DISTRICT — HOWARD COUNTY, MD.
SCALE: AS SHOWN — APRIL 22, 1983
SHEET 5 OF 5

FISHER, COLLINS & CARTER, INC.
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#728

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