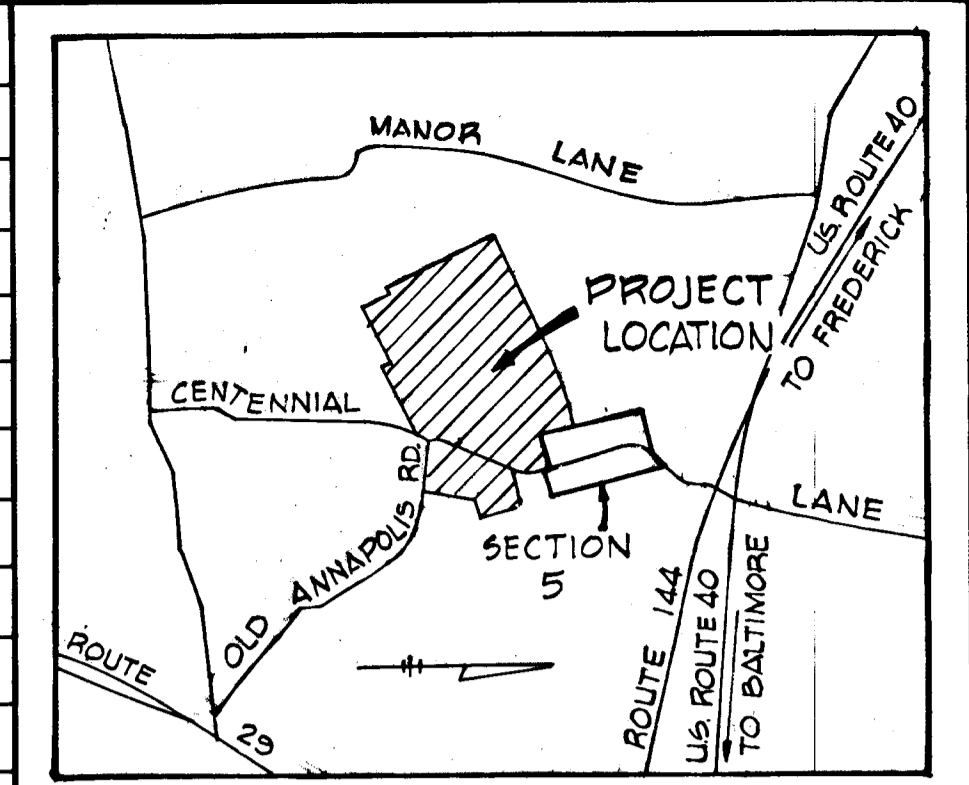
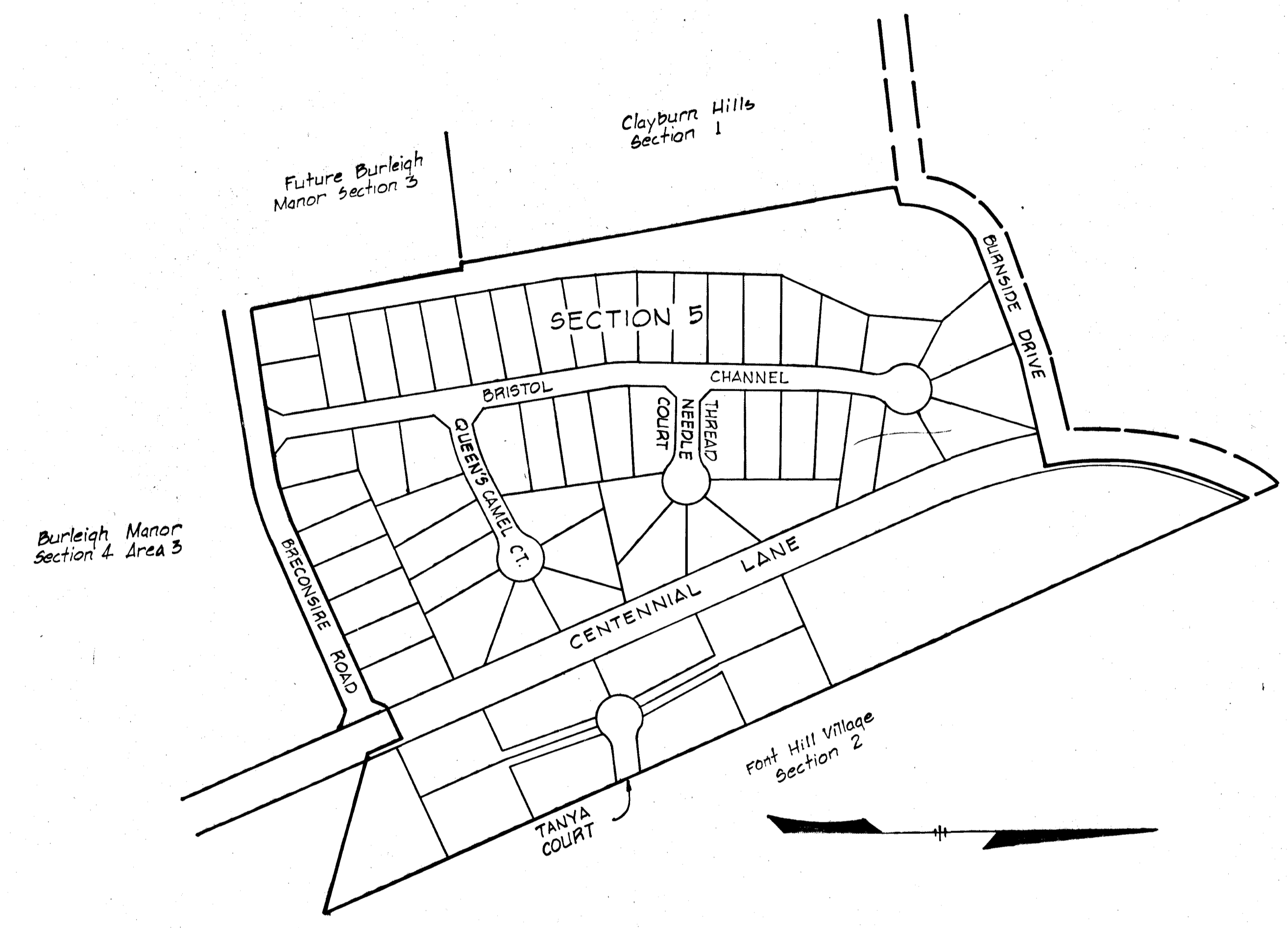


SHEET INDEX	
SHEET No.	DESCRIPTION
1	Cover Sheet
2	Plan & Profile Bristol Channel
3	Plan & Profile Queen's Camel & Threadneedle Courts
4	Plan & Profile Tanya Court
5	Centennial Lane Improvements
6	Centennial Lane Improvements
7	Storm Drain Profiles & Details
8	Road & Drain Details
9	Drainage Area Map
10	Tanya Ct Drainage Area Map & Sediment Cont. Plan
11	Storm Water Management Plan & Profiles
12	Storm Water Management Details
13	Sediment Control Notes & Details
14	Road Landscape and Details



VICINITY MAP  
Scale: 1" = 1/2" Mile



LOCATION PLAN  
Scale: 1" = 200'

**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 25 m.p.h. in accordance with AASHTO standards.
- All inlets shall be Howard County Standard unless otherwise noted.
- All street curb returns shall have a 35' 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 contractors operations shall be repaired immediately at the contractors 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 days strength of 3,500 p.s.i.
- Traffic control devices and installation shall be in accordance with the 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 unpeaved unless otherwise noted.
- All horizontal and vertical controls are based on Maryland State Datum.
- Seed and mulch all disturbed areas.

# 751

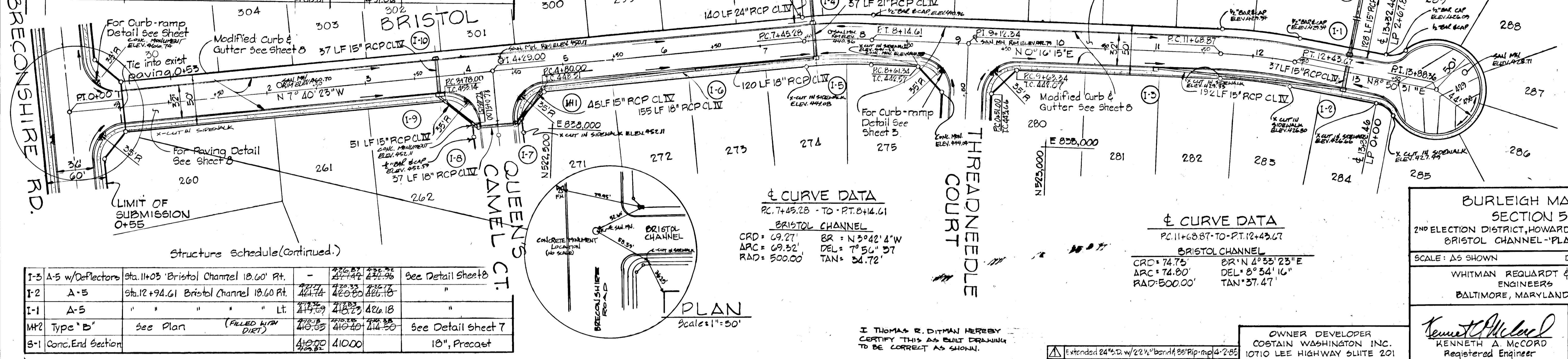
WHITMAN, REQUARDT AND ASSOCIATES  
ENGINEERS  
BALTIMORE, MARYLAND  
*Kenneth A. McCord*  
KENNETH A. McCORD  
Registered Engineer  
No. 1974

DEPARTMENT OF PUBLIC WORKS  
*W. O. Lambert* 1-7-80  
CHIEF, BUREAU OF ENGINEERING DATE  
OFFICE OF PLANNING AND ZONING  
*John W. Mendenhall* 12-28-79  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER AND DEVELOPER  
COSTAIN WASHINGTON INC.  
10710 LEE HIGHWAY SUITE 201  
FAIRFAX, VIRGINIA 22030

BURLEIGH MAJOR  
SECTION 5  
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
Scale: As Shown Date:

No.	Type	LOCATION	Inv. In.	Inv. Out.	Top El.	Remarks
I-10	A-5 w/ Deflectors	Sta. 3+72.33 Bristol Channel 18.60' Lt.	-	445.00	455.45	See Detail Sheet 8
I-9	A-10 w/ Deflectors	" " " " Rt.	447.25	446.25	453.45	"
I-8	A-5 w/ Deflectors	Sta. 0+52.92 Queen's Camel Ct. 18.60' Rt.	447.40	447.29	451.89	"
I-7	A-5 w/ Deflectors	Sta. " " " " Lt.	446.70	446.59	451.59	"
M-1	Type "B"	Sta. 4+80 Bristol Channel 22' Rt.	441.55	441.50	448.50	See Detail Sheet 7
I-6	A-5	Sta. 6+35 Bristol Channel 18.60' Rt.	432.18	432.32	442.08	See Detail Sheet 8
I-5	A-5	Sta. 7+54.80 Bristol Channel 18.60' Rt.	433.35	432.90	442.65	"
I-4	A-5	" " " " " "	431.40	429.52	440.65	"
B-2	Conc. End Section	" " " " " "	428.51	-	431.06	24" Precast



**¢ CURVE DATA**  
 PC: 7+45.28 - TO - PT: 8+14.61  
 BRISTOL CHANNEL  
 CRD = 69.27 BR = N 5° 42' 4\"/>

**¢ CURVE DATA**  
 PC: 11+68.87 - TO - PT: 12+43.67  
 BRISTOL CHANNEL  
 CRD = 74.75 BR = N 4° 35' 23\"/>

Structure Schedule (Continued.)

I-3	A-5 w/ Deflectors	Sta. 11+03 Bristol Channel 18.60' Rt.	-	426.87	425.52	See Detail Sheet 8
I-2	A-5	Sta. 12+94.61 Bristol Channel 18.60' Rt.	421.74	420.80	426.18	"
I-1	A-5	" " " " " Lt.	419.59	418.25	426.18	"
M-2	Type "B"	See Plan (FILLED WITH DIRT)	418.05	418.40	414.50	See Detail Sheet 7
B-1	Conc. End Section	" " " " " "	410.00	410.00	18\"/>	

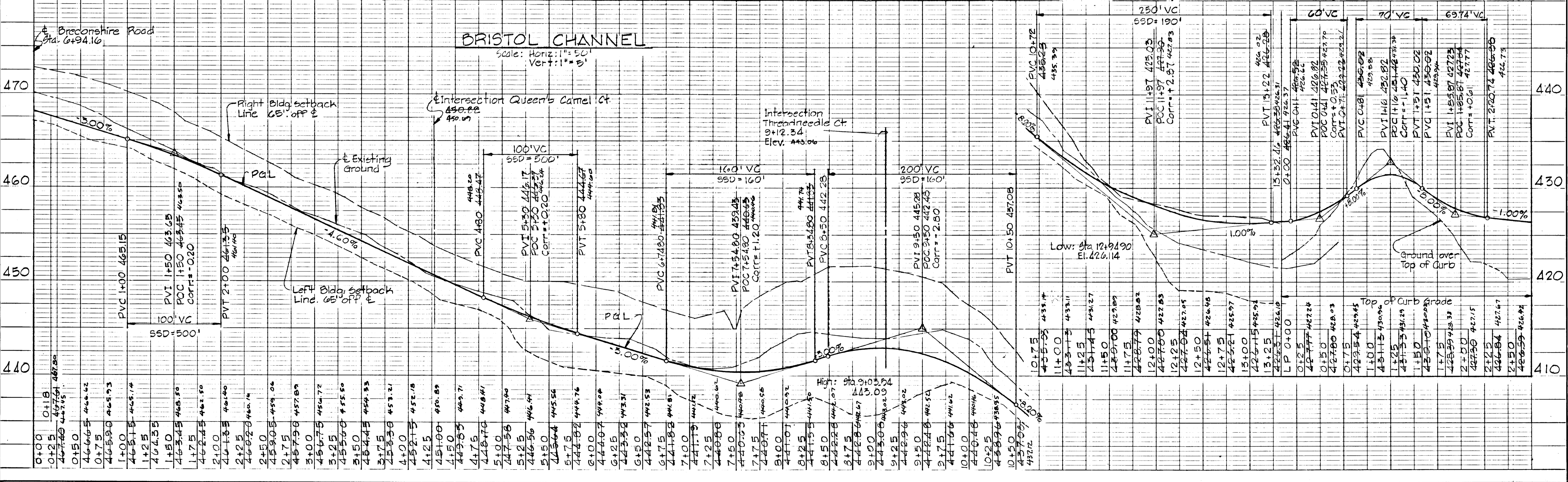
BURLEIGH MANOR  
 SECTION 5  
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 BRISTOL CHANNEL - PLAN & PROFILE  
 SCALE: AS SHOWN DATE: Oct. 25, 1979  
 WHITMAN REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202

*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 Registered Engineer  
 No. 1974

I THOMAS R. DITMAN HEREBY  
 CERTIFY THIS AS BUILT DRAWING  
 TO BE CORRECT AS SHOWN.

OWNER DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

Revisions  
 Extended 24\"/>



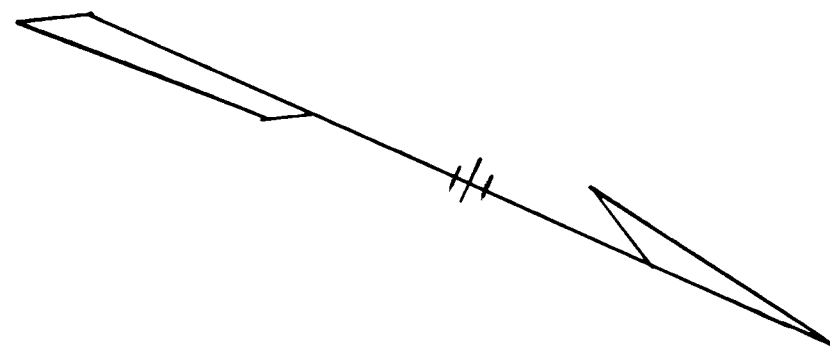
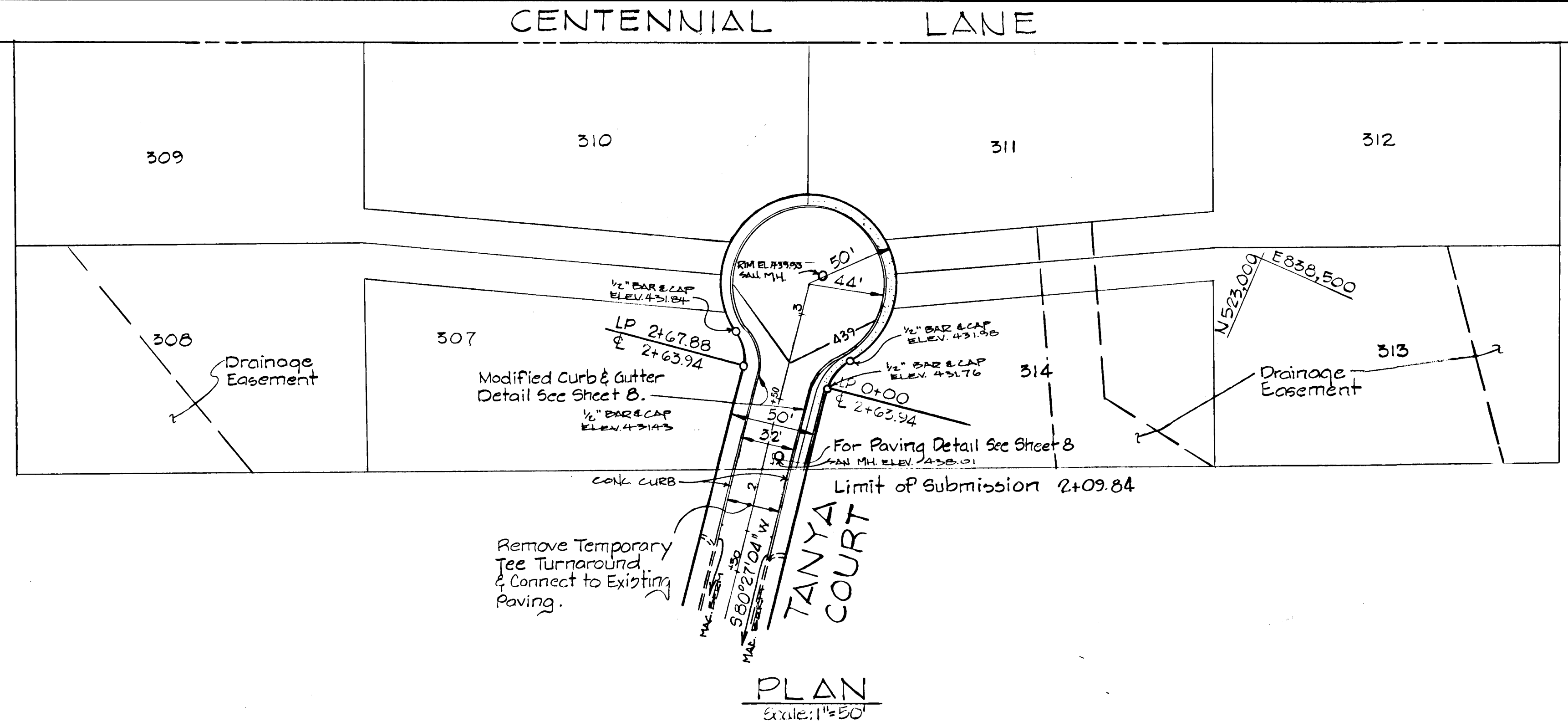


DATE	
BY	
PLAN	
NOTE BOOK	
No.	

DATE	
BY	
PROFILE	
NOTE BOOK	
No.	

DEPARTMENT OF PUBLIC WORKS  
*W. R. Hunt* 1-7-80  
 CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING AND ZONING  
*John W. Mullan* 12-28-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE



I THOMAS R. DITMAN HEREBY CERTIFY THIS AS BUILT DRAWING TO BE CORRECT AS SHOWN.

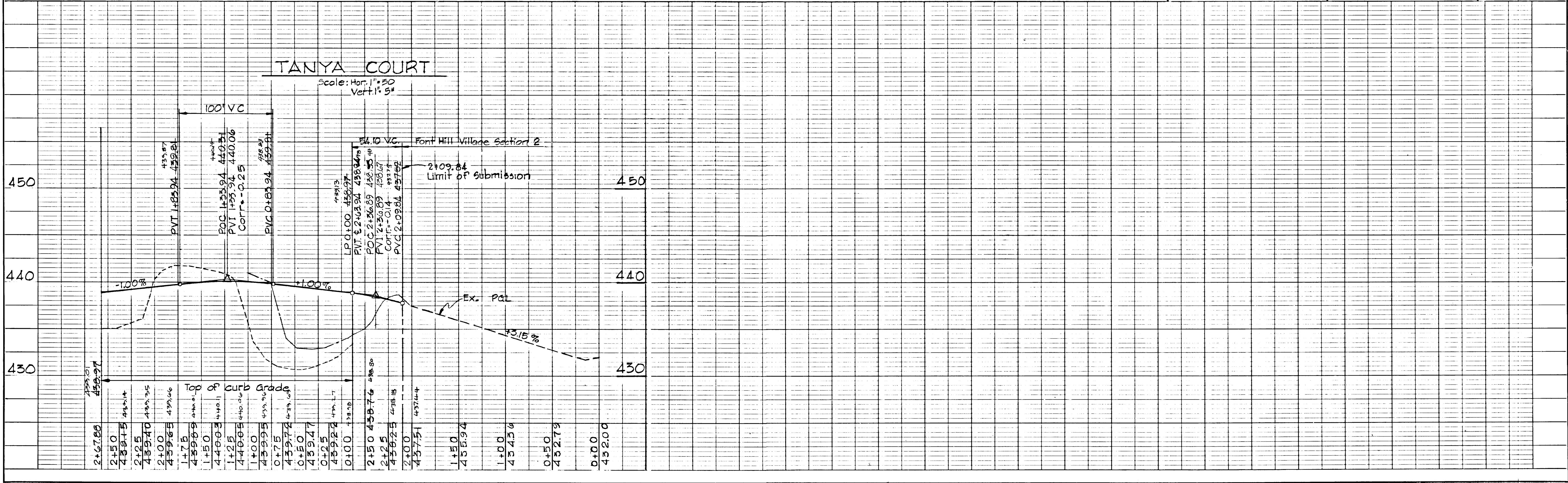
OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

BURLEIGH MANOR SECTION 5  
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 TANYA COURT - PLAN & PROFILE

SCALE: 1"=50' DATE: Oct. 29, 1979

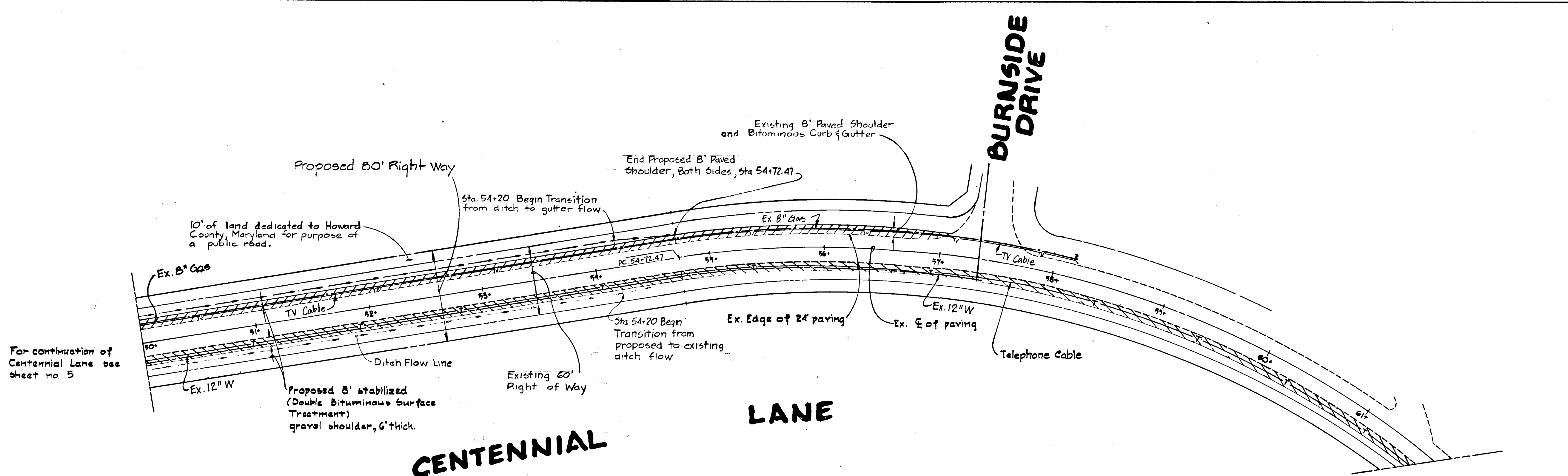
WHITMAN REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202

*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 REGISTERED ENGINEER  
 No. 1974



#721





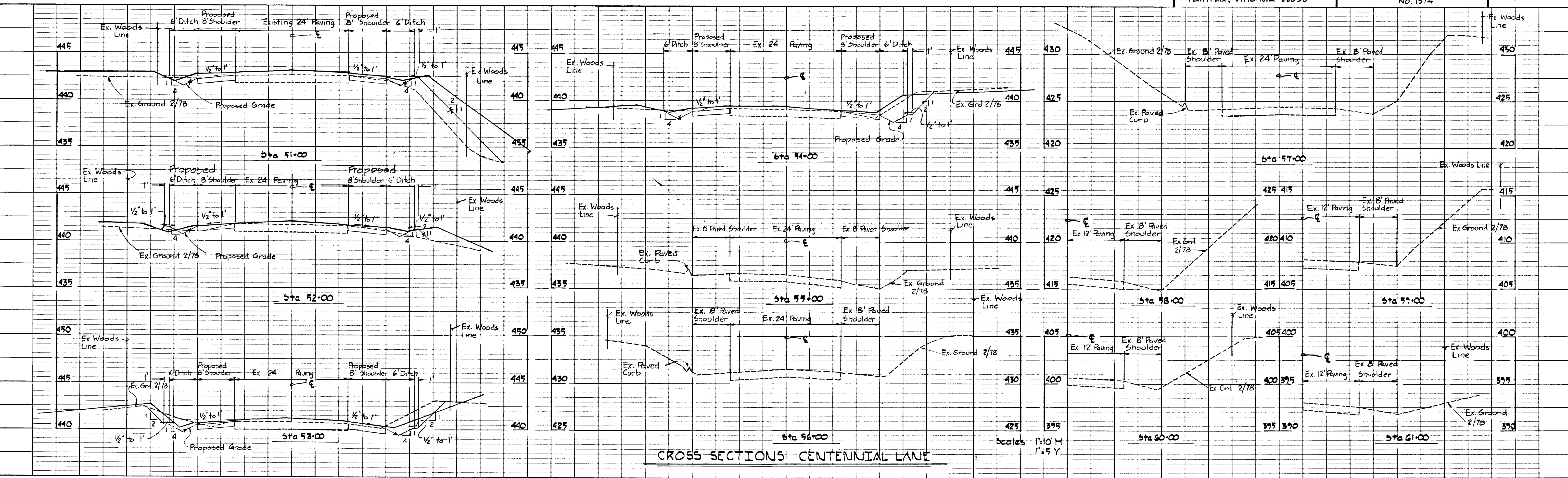
PLAN  
 1" = 50'

BURLEIGH MANOR  
 SECTION 5  
 2<sup>ND</sup> ELECTION DISTRICT HOWARD COUNTY MARYLAND  
 CENTENNIAL LANE IMPROVEMENTS  
 SCALE: AS SHOWN DATE: Oct. 25, 1979  
 WHITMAN REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202

OWNER DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

*Kenneth A. McCord*  
 KENNETH A. McCORD  
 Registered Engineer  
 No. 1974

I THOMAS R. DITMAN HEREBY CERTIFY  
 THIS AS BUILT DRAWING TO BE CORRECT AS  
 SHOWN.

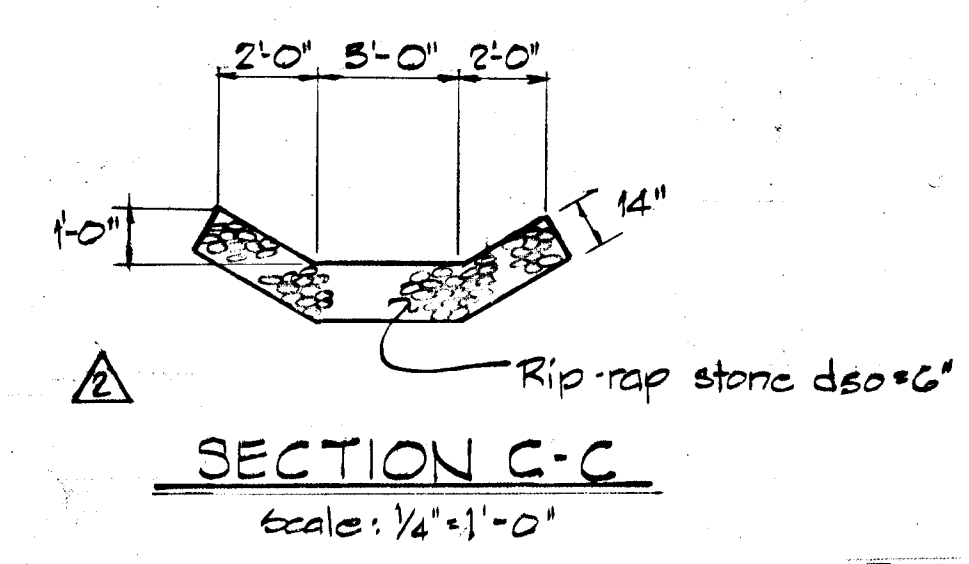
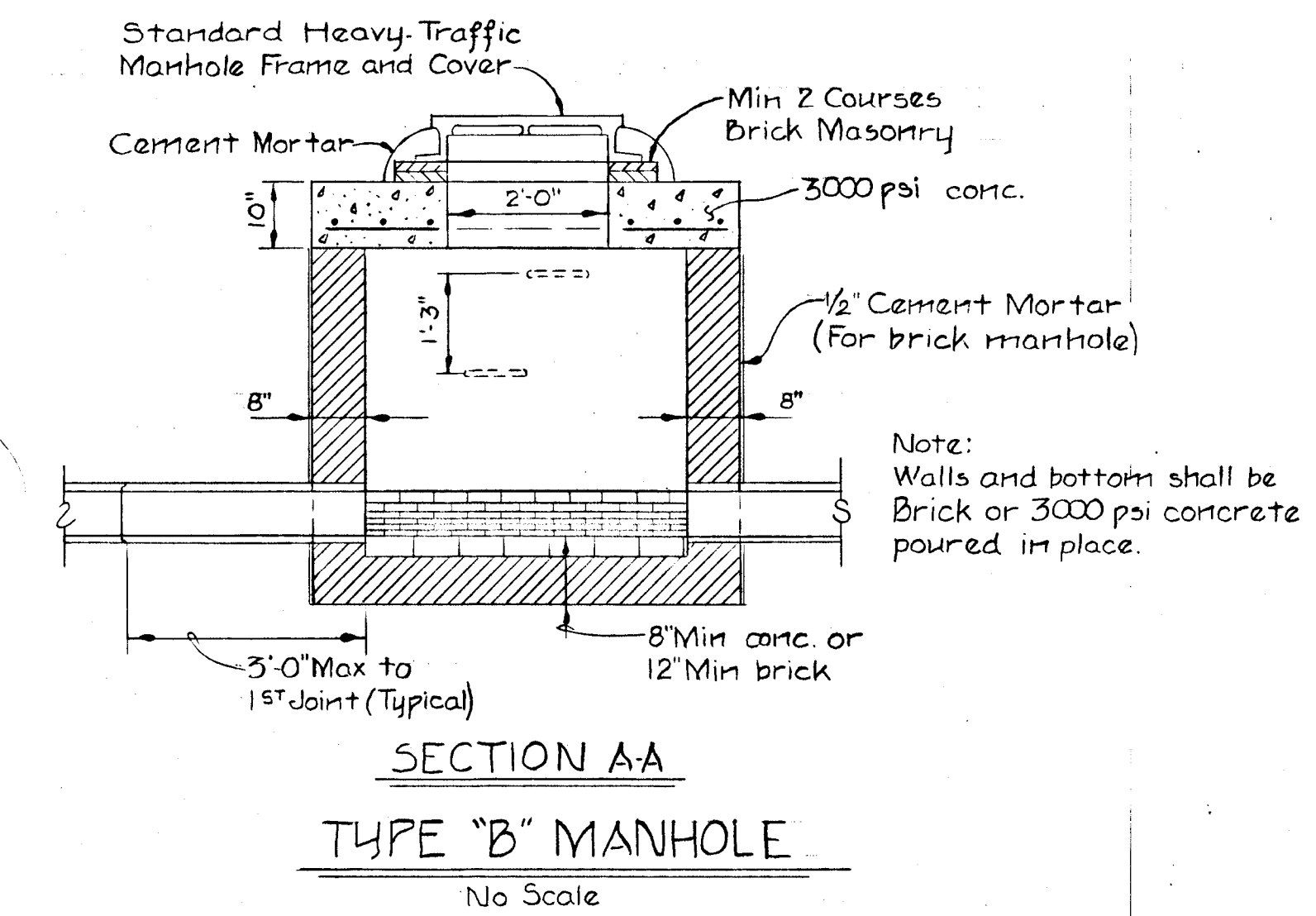
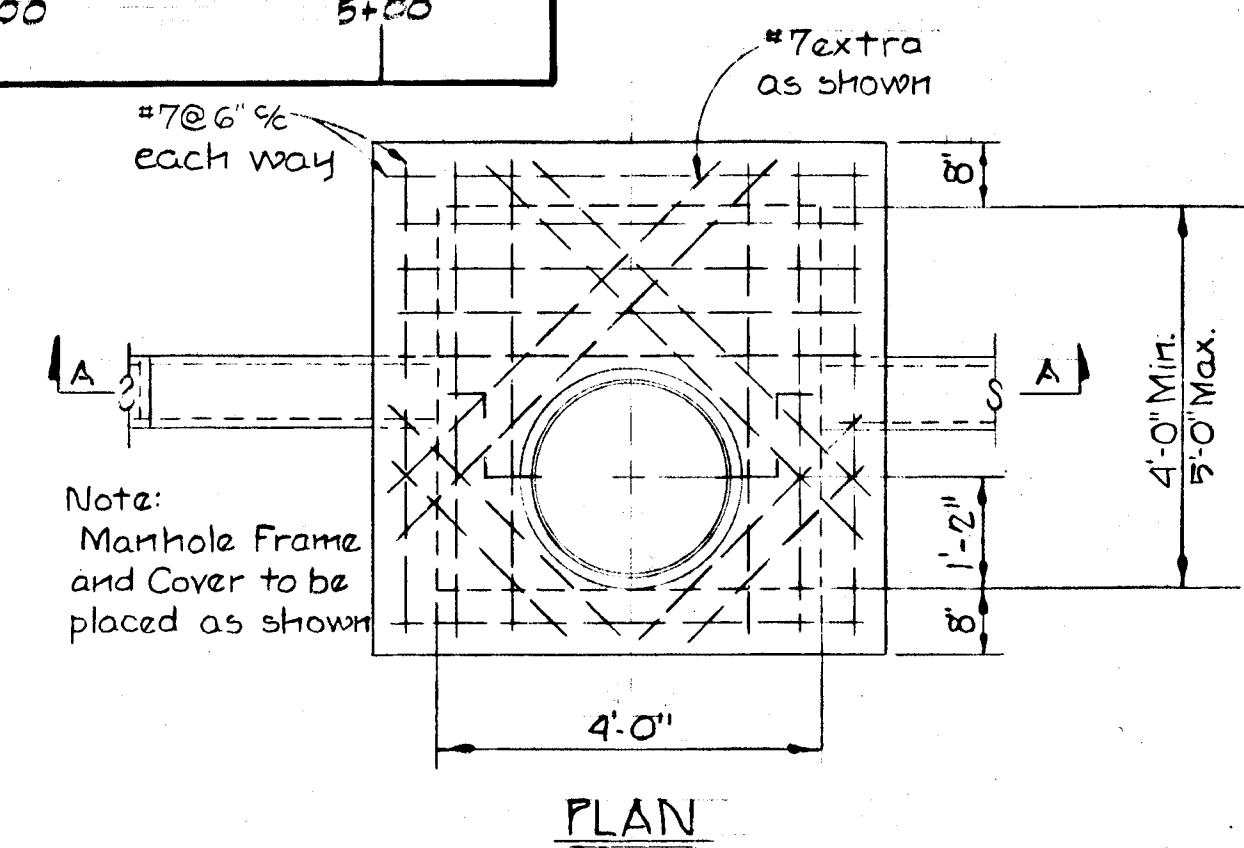
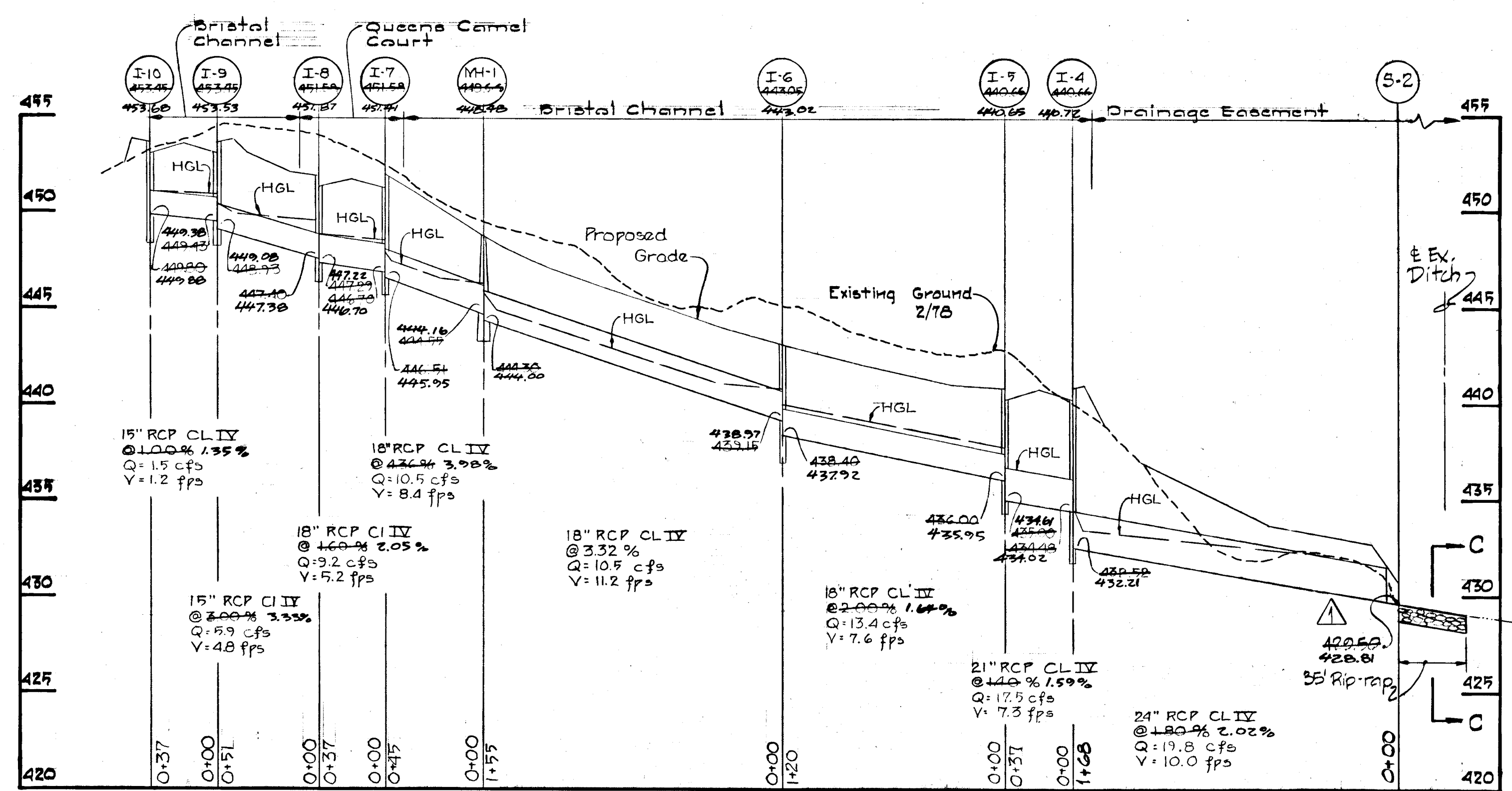
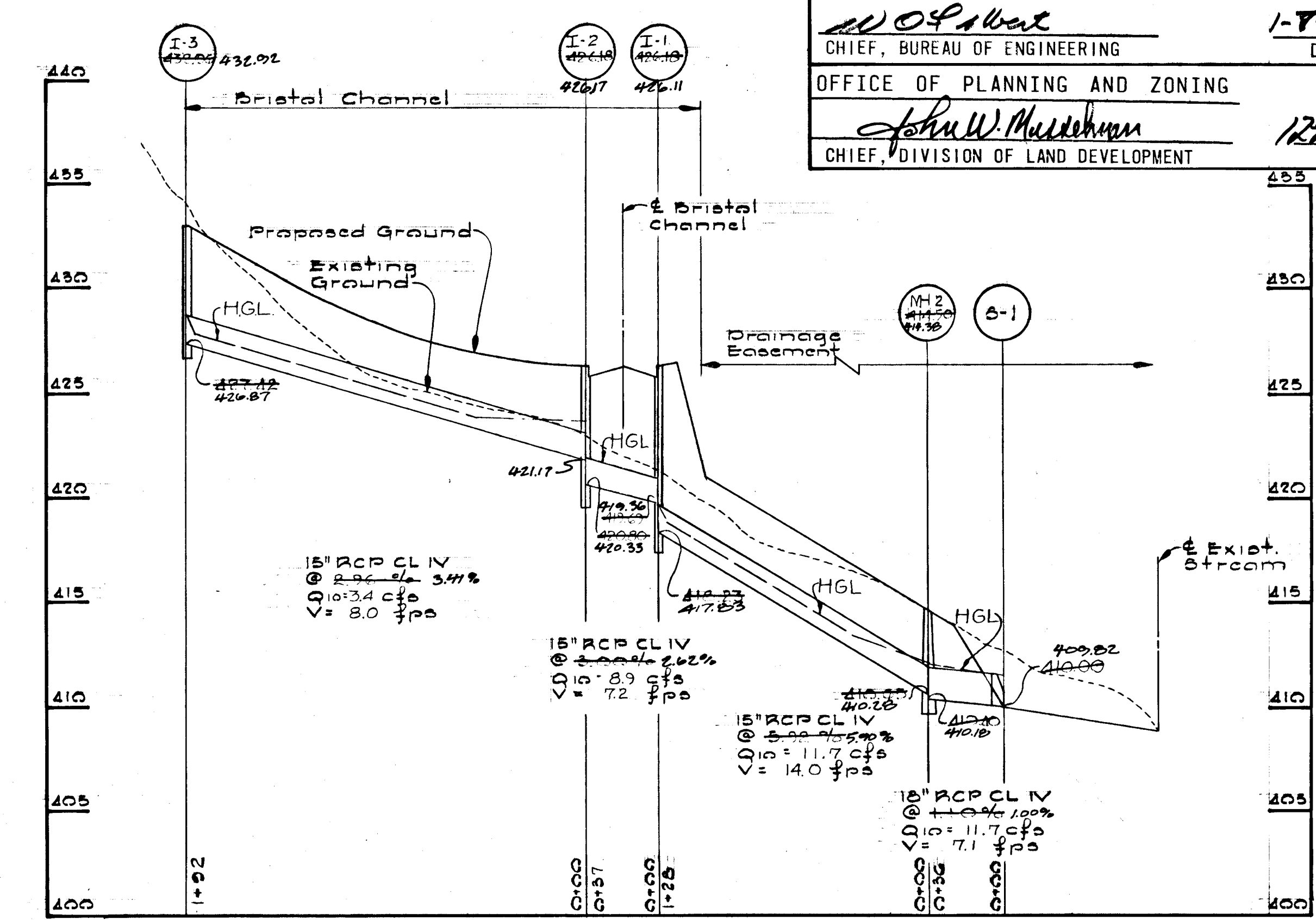
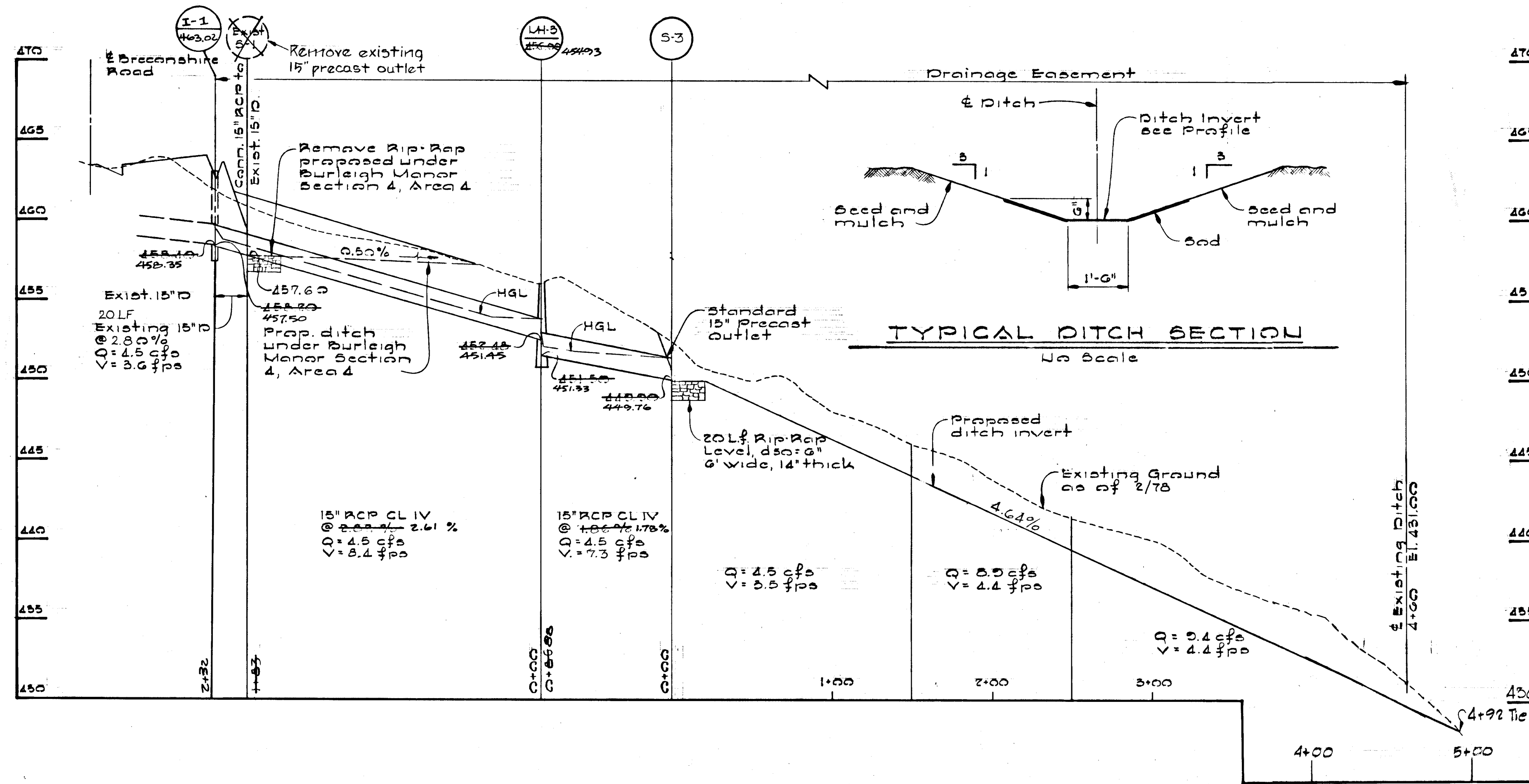


CROSS SECTIONS CENTENNIAL LANE  
 Scale: 1" = 10' H  
 1" = 5' V

DATE  
 BY  
 SURVEYED  
 PLANNED  
 CHECKED  
 NOTE BOOK  
 NO.

DATE  
 BY  
 SURVEYED  
 PROFILE  
 CHECKED  
 NOTE BOOK  
 NO.

# 7/21



I, THOMAS R. DITTMAN HEREBY CERTIFY THIS AS BUILT DRAWING TO BE CORRECT AS SHOWN

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
*J. Helms*  
 SIGNATURE  
 U.S. SOIL CONSERVATION SERVICE  
 DATE: 12/27/79

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Robert W. Ziehm*  
 HOWARD S.C.D.  
 DATE: 12/27/79

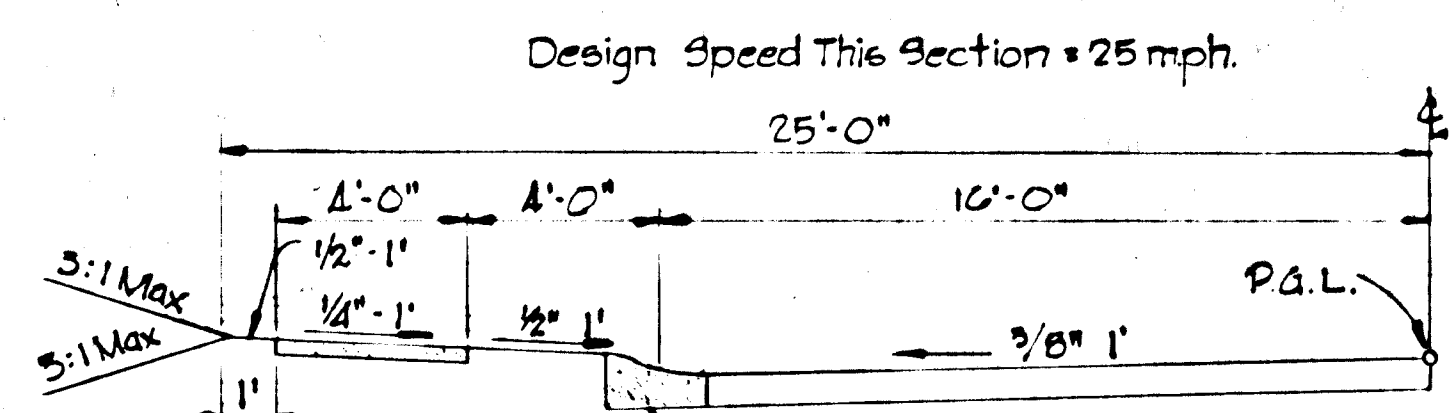
CERTIFICATION BY THE DEVELOPER  
 "WE CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND WE ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
 JOHN DeGROOT  
 BRANCH MANAGER  
 MICHAEL E. MCGUIRE  
 MANAGER, LAND DEVELOPER  
 DATE: 12/27/79

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*  
 KENNETH A. MCCORD, P.E.  
 DATE: 10-29-79

Added Cross Section C-C	4/2/79
Extended LA-1 w/35' Rip-rap	4/2/79
Revisions	

OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 707C LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

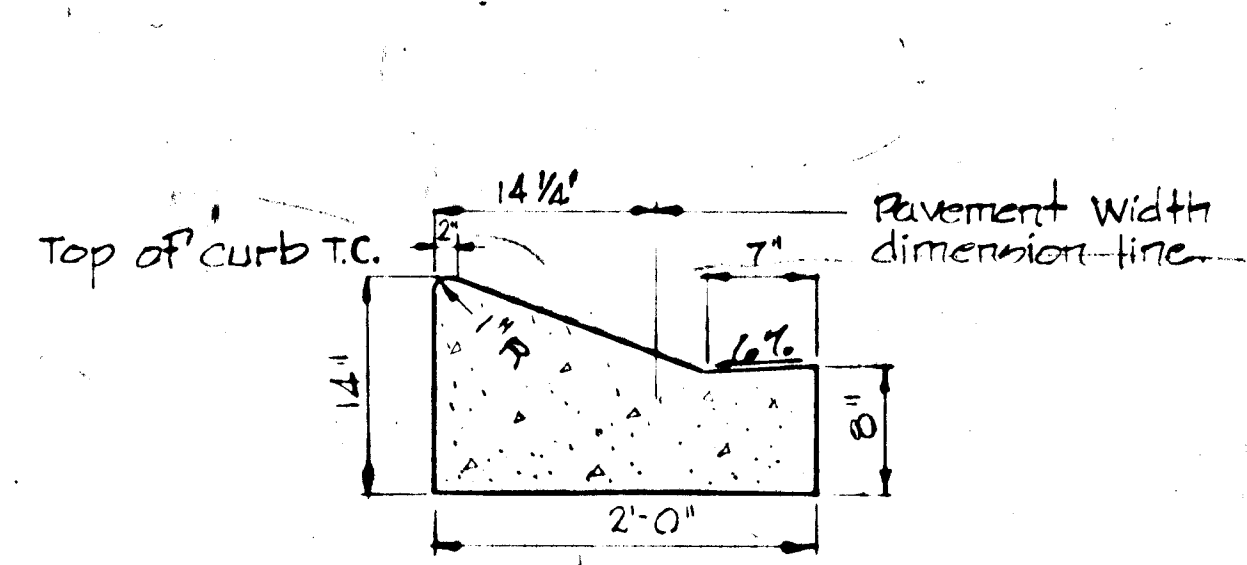
BURLEIGH MANOR  
 SECTION 5  
 2ND. ELECTION DISTRICT HOWARD COUNTY, MD.  
 SCALE: 1" = 50'  
 DATE: October 24, 1979  
 WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202  
*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 REGISTERED ENGINEER  
 NO. 1974



Note: Sidewalk to be constructed in accordance with Article C-35 of the Howard County Road Construction Code and Specifications  
 6 3/8" Modified Combination Curb and gutter see Detail this sheet.

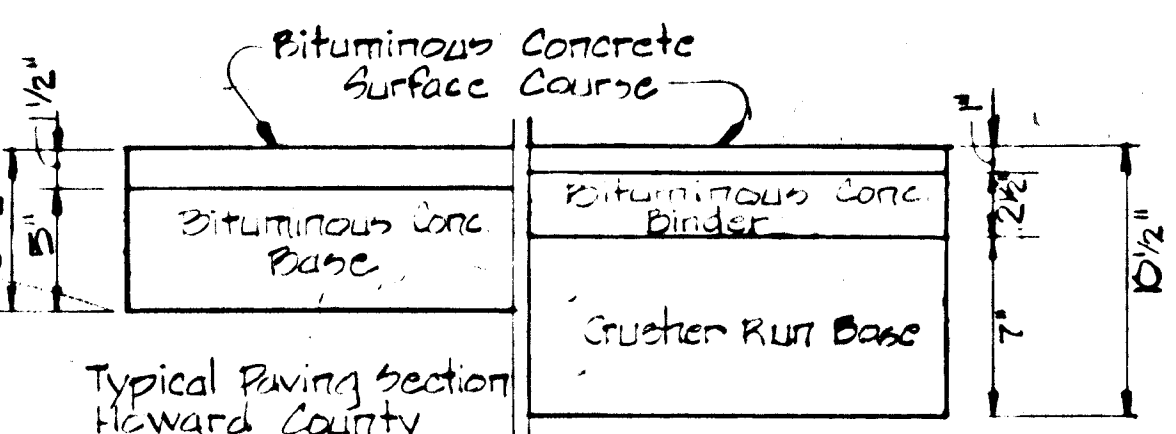
**50' ROW TYPICAL HALF SECTION  
 32' PAVING  
 RESIDENTIAL TRAFFICWAY**  
 R-20  
 Scale: 1/4" = 1'-0"

50' ROW HALF SECTION AND 32' PAVING APPLIES TO:  
 Bristol Channel  
 Threadneedle Ct.  
 Queen's Camel Ct.  
 Tanya Ct.



Note: Curb and gutter to be constructed with No 3 Mixed Concrete.

**6 3/8" MODIFIED COMBINATION CURB & GUTTER**  
 No scale



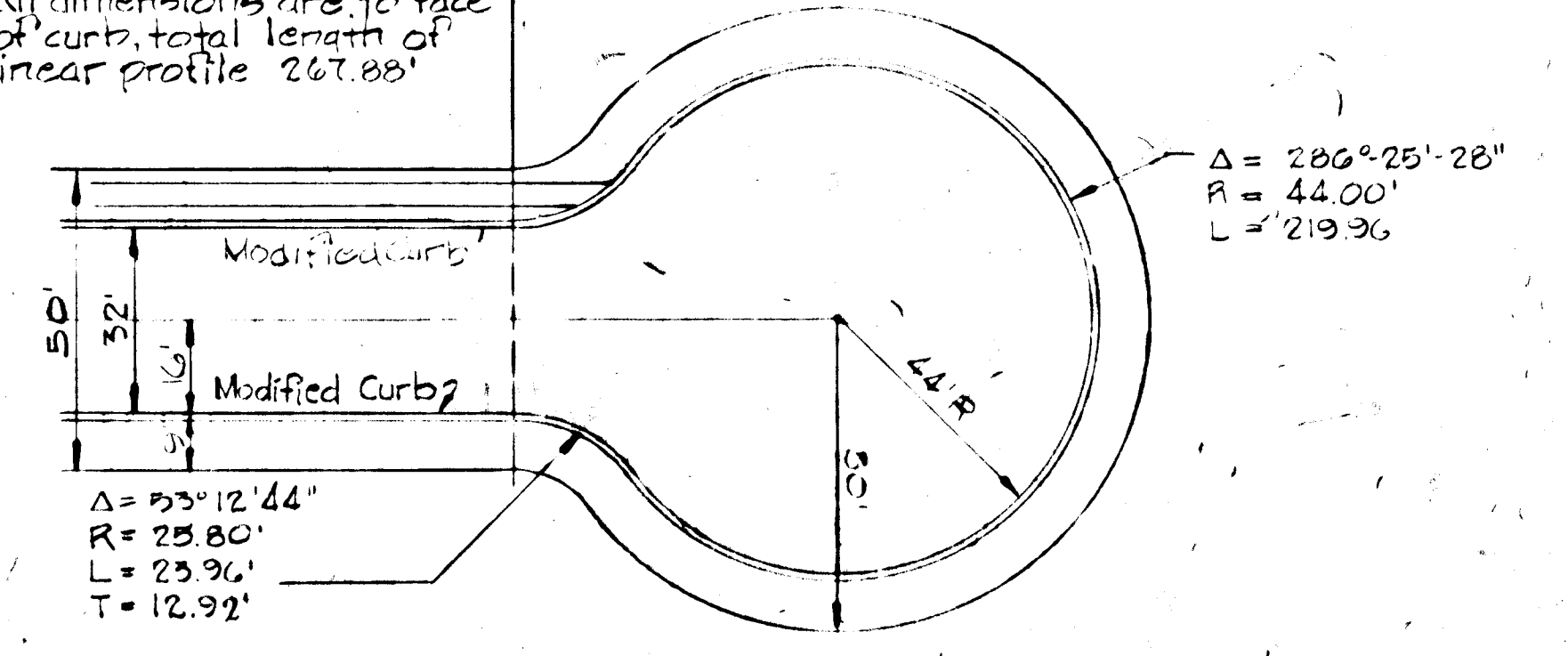
Notes for Section D-5:  
 1. Base will be primed in accordance with C-30-3 as provided in the Howard County Road Construction Code and standard specifications.  
 2. Tack Coat is required in accordance with section C-31-4 of the Howard County Road Construction Code and standard specifications.

Alternate Section Howard County Std D-4 page 59:

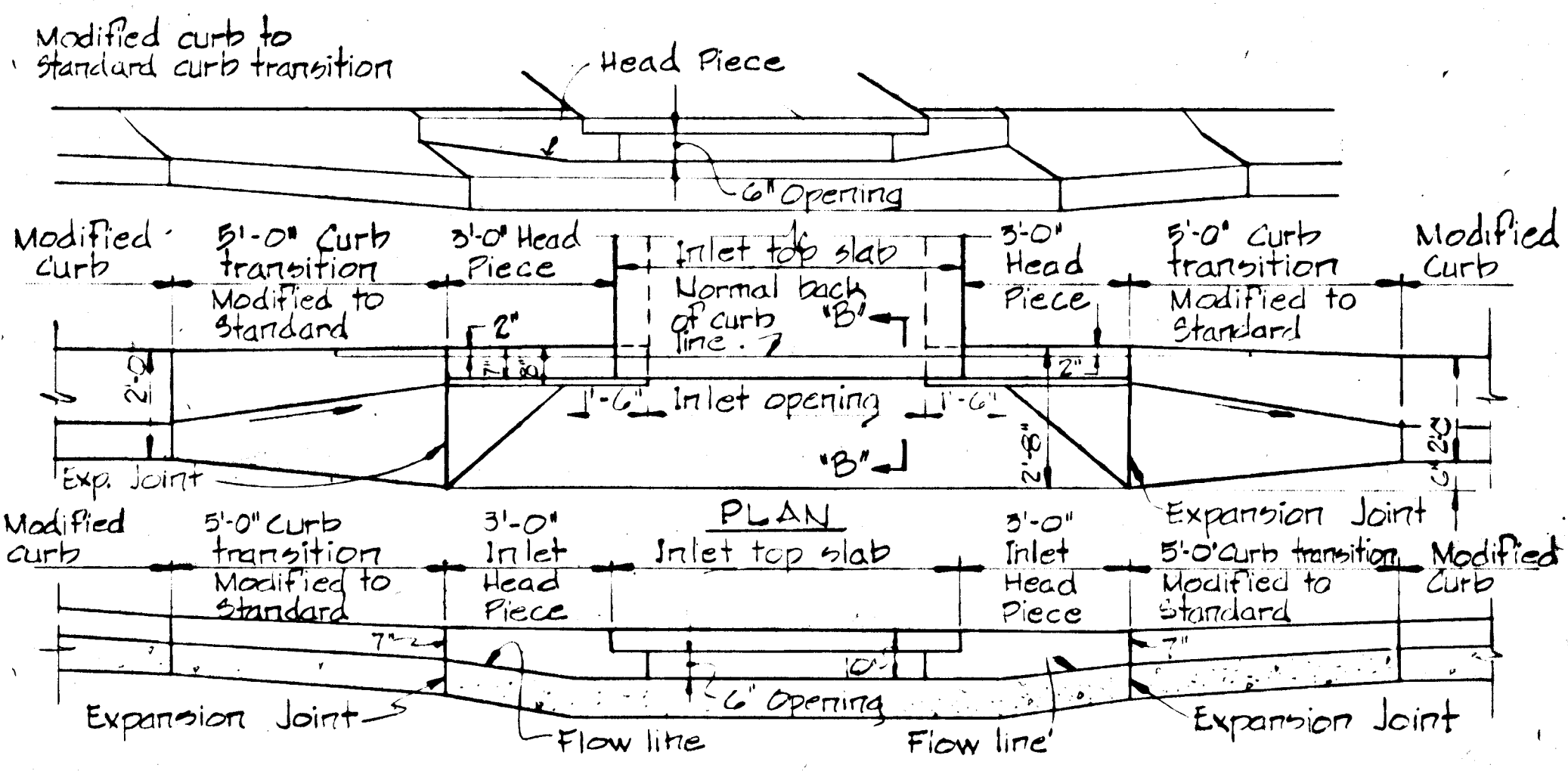
Notes: for either Section D-4 or D-5  
 1. All work shall be performed in accordance with the Howard County Road Construction Code and standard specifications.  
 2. Only one of the paving sections shown shall be used for the road construction proposed under this submission.

**PAVING SECTION ALTERNATES**  
 No scale

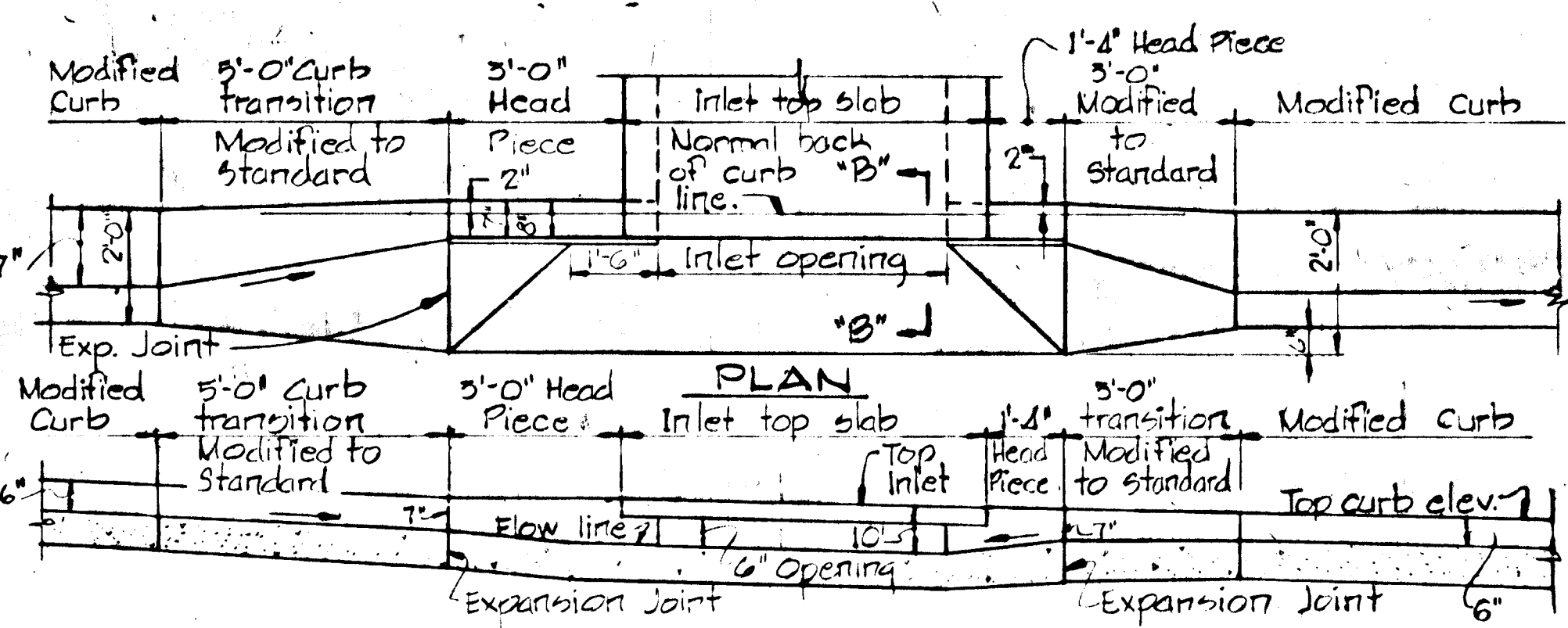
Linear Profile  
 Note: All dimensions are to face of curb, total length of linear profile 267.88'



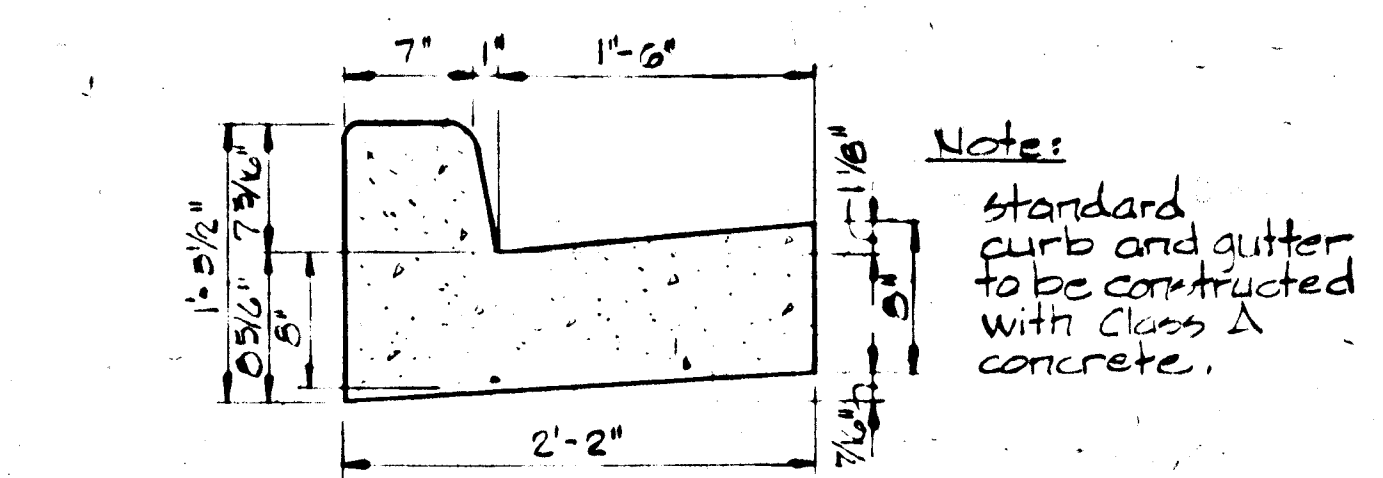
**CUL-DE-SAC DETAIL FOR**  
 Bristol Channel, Threadneedle Ct., Queen's Camel Ct., Tanya Court



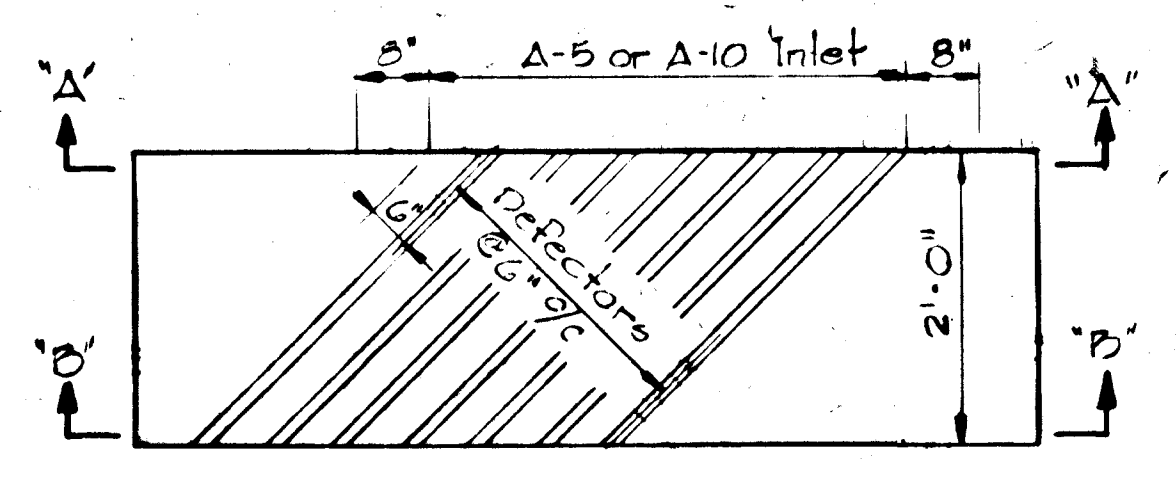
**SECTION ALONG FLOW LINE  
 SUMPED "A" INLETS - MODIFIED CURB**



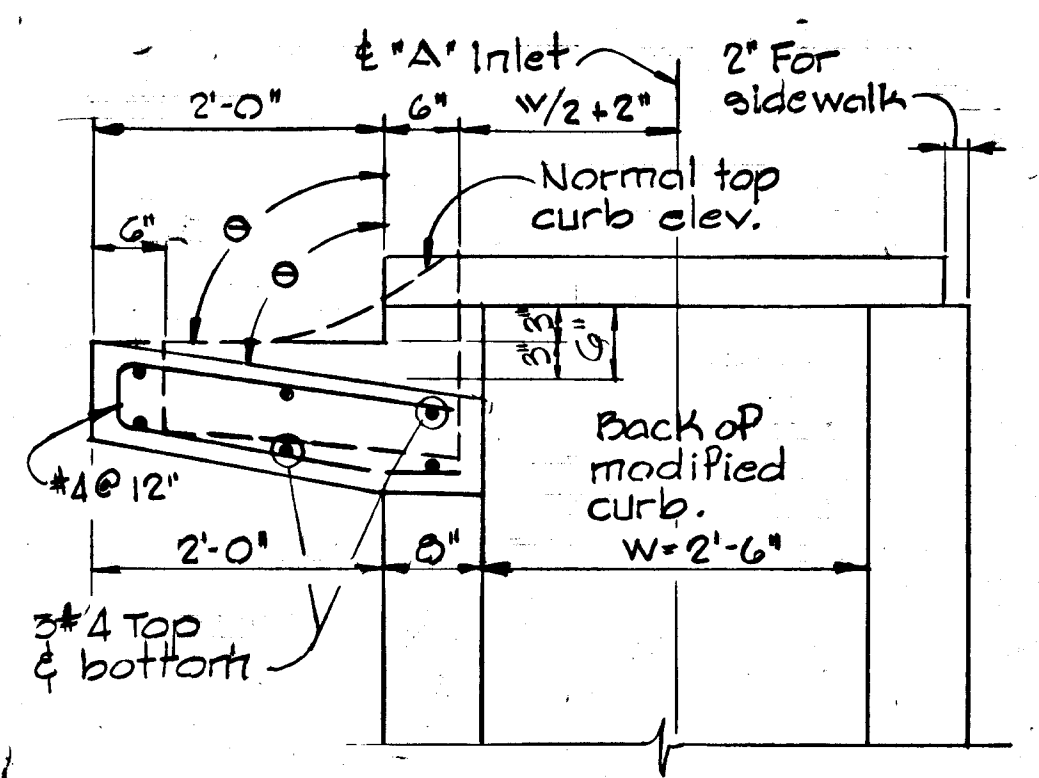
**SECTION ALONG FLOW LINE  
 "A" INLETS - MODIFIED CURB**



**STANDARD 7" COMBINATION CURB & GUTTER**  
 No scale



**DEFLECTOR DETAIL**  
 No scale



Note: For "A" Inlet dimensions and structural details, see Standard Howard County drawing G4-A page 119-A.

**SECTION "B-B"  
 "A" INLET  
 MODIFIED CURB**

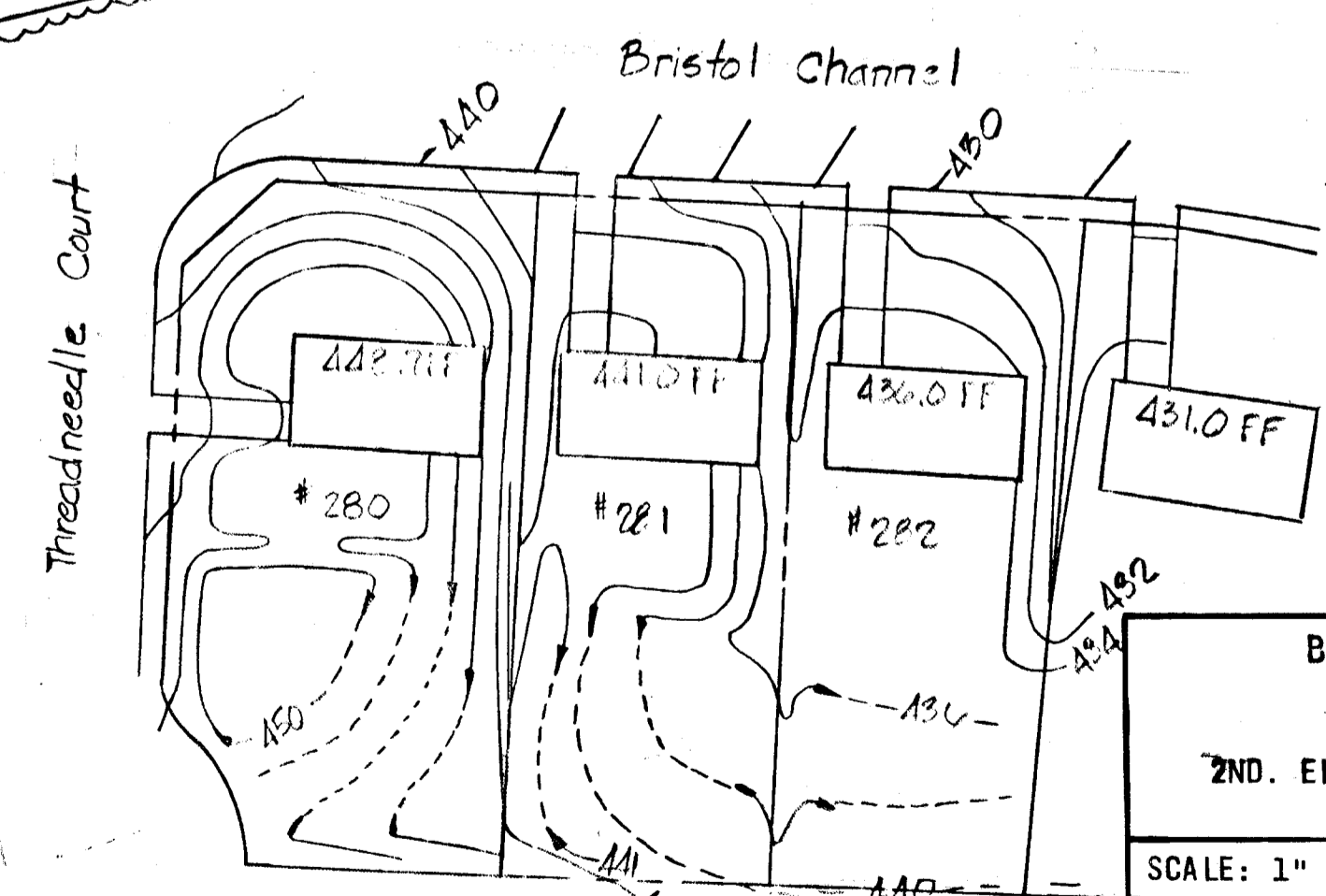
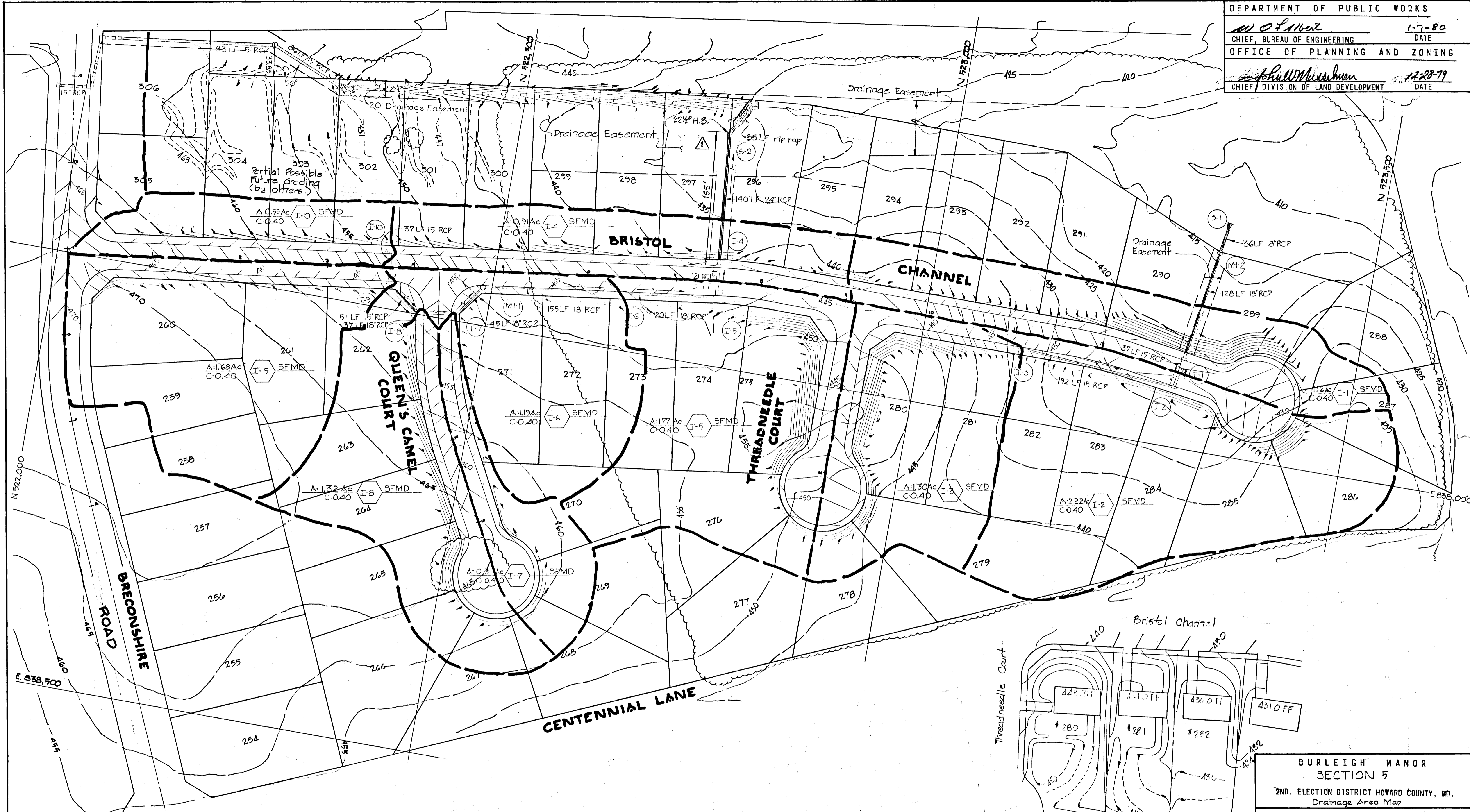
# 721

BURLEIGH MANOR SECTION 5  
 2ND. ELECTION DISTRICT HOWARD COUNTY, MD.  
 ROADWAY & STORMDRAIN DETAILS  
 SCALE: 1" = 50' DATE: Oct. 25, 1979  
 WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
 BALTIMORE, MARYLAND 21202

OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

*Kenneth A. McCord*  
 KENNETH A. McCORD  
 REGISTERED ENGINEER  
 NO. 1974





REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*J. Helmer*  
 SIGNATURE DATE: 12/27/79  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Robert ...* DATE: 12/27/79  
 HOWARD S.C.D.

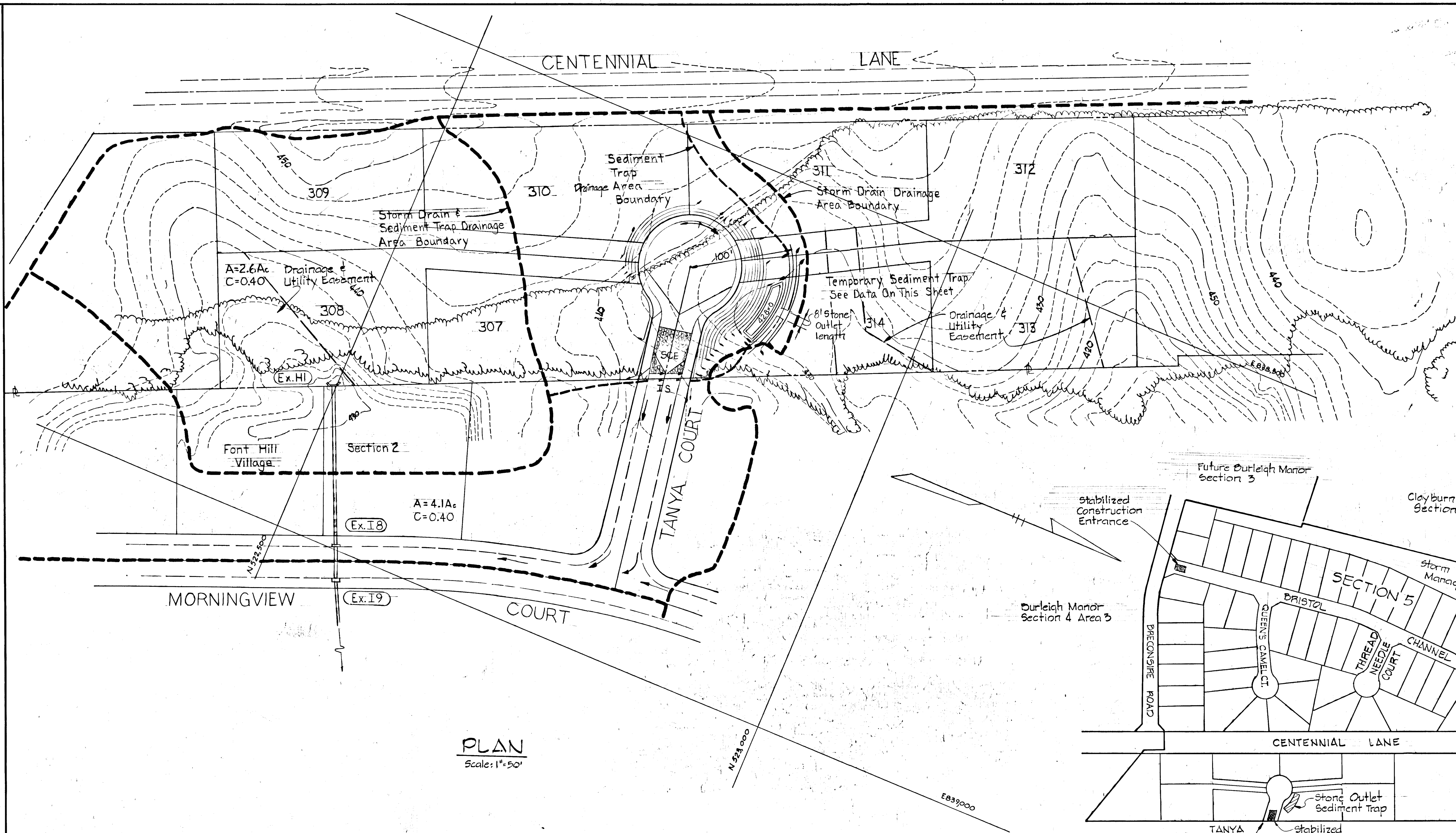
CERTIFICATION BY THE DEVELOPER  
 "WE CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND WE ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
*John DeGroot*  
 JOHN DEGROOT  
 BRANCH MANAGER

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*  
 KENNETH A. MCCORD P.E. 1974  
 DATE: 10-29-79

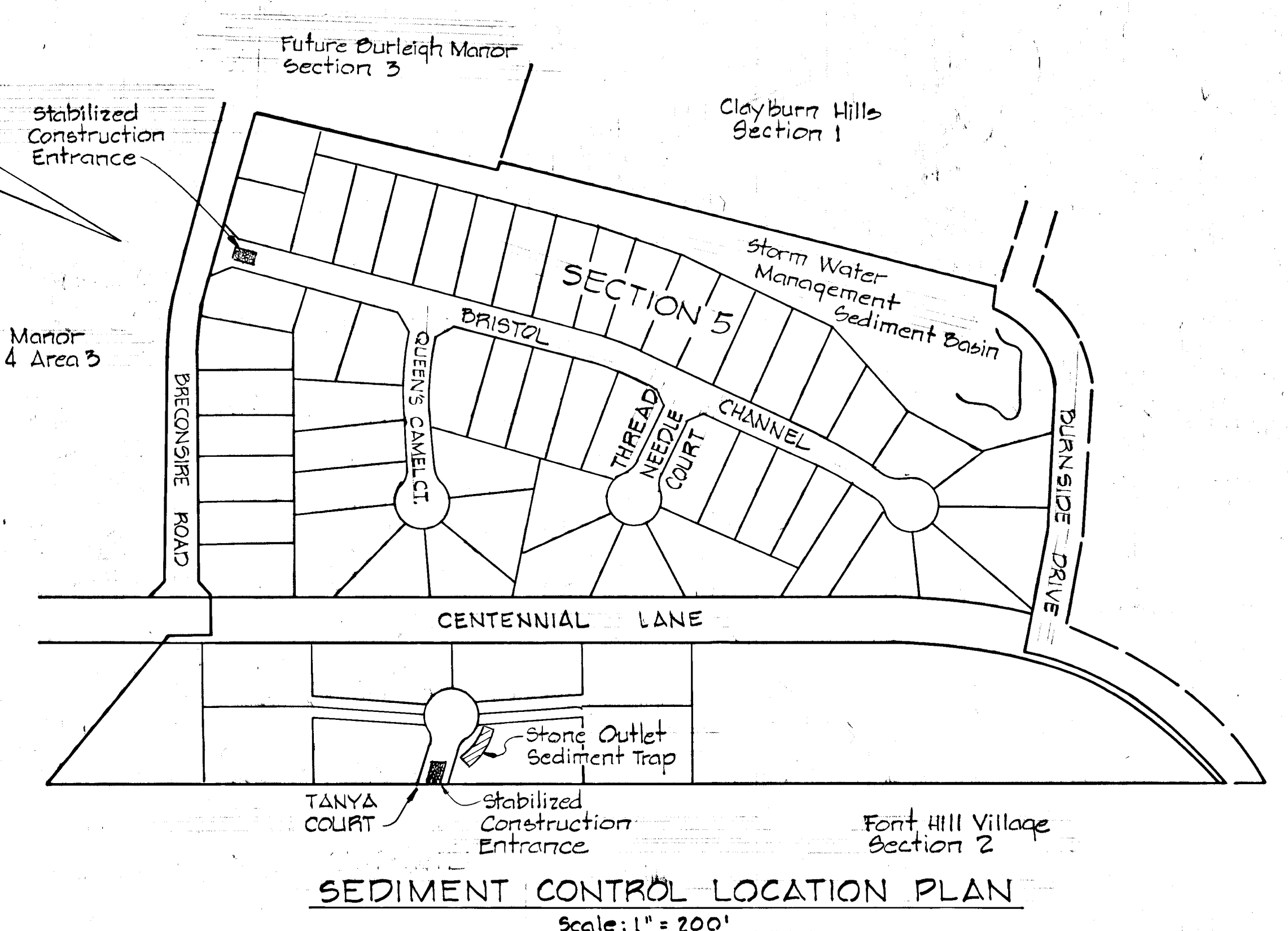
4/2/80  
 Revisions  
 Extended 24" S.D. w/22" rip rap

OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

BURLEIGH MANOR SECTION 5  
 2ND. ELECTION DISTRICT HOWARD COUNTY, MD.  
 Drainage Area Map  
 SCALE: 1" = 50' DATE: Oct 25, 1979  
 WHITMAN REQUARDT AND ASSOCIATES ENGINEERS  
 BALTIMORE, MARYLAND 21202  
*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 REGISTERED ENGINEER  
 NO. 1974



PLAN  
 Scale: 1" = 50'



REVIEWED FOR HOWARD S C D AND MEETS TECHNICAL REQUIREMENTS  
 J. Hehn 13  
 SIGNATURE DATE: 12/27/79  
 U.S. SOIL CONSERVATION SERVICE

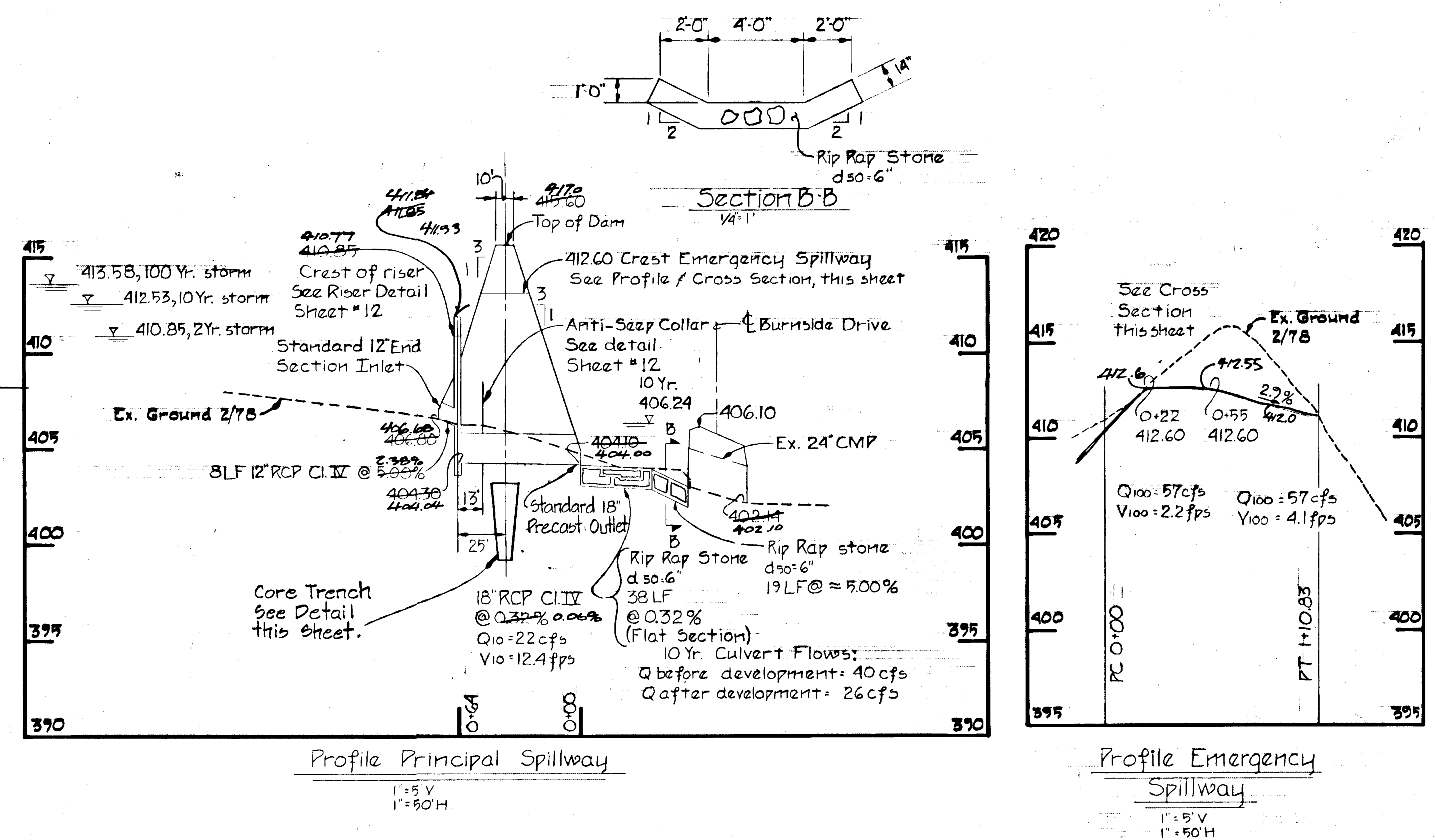
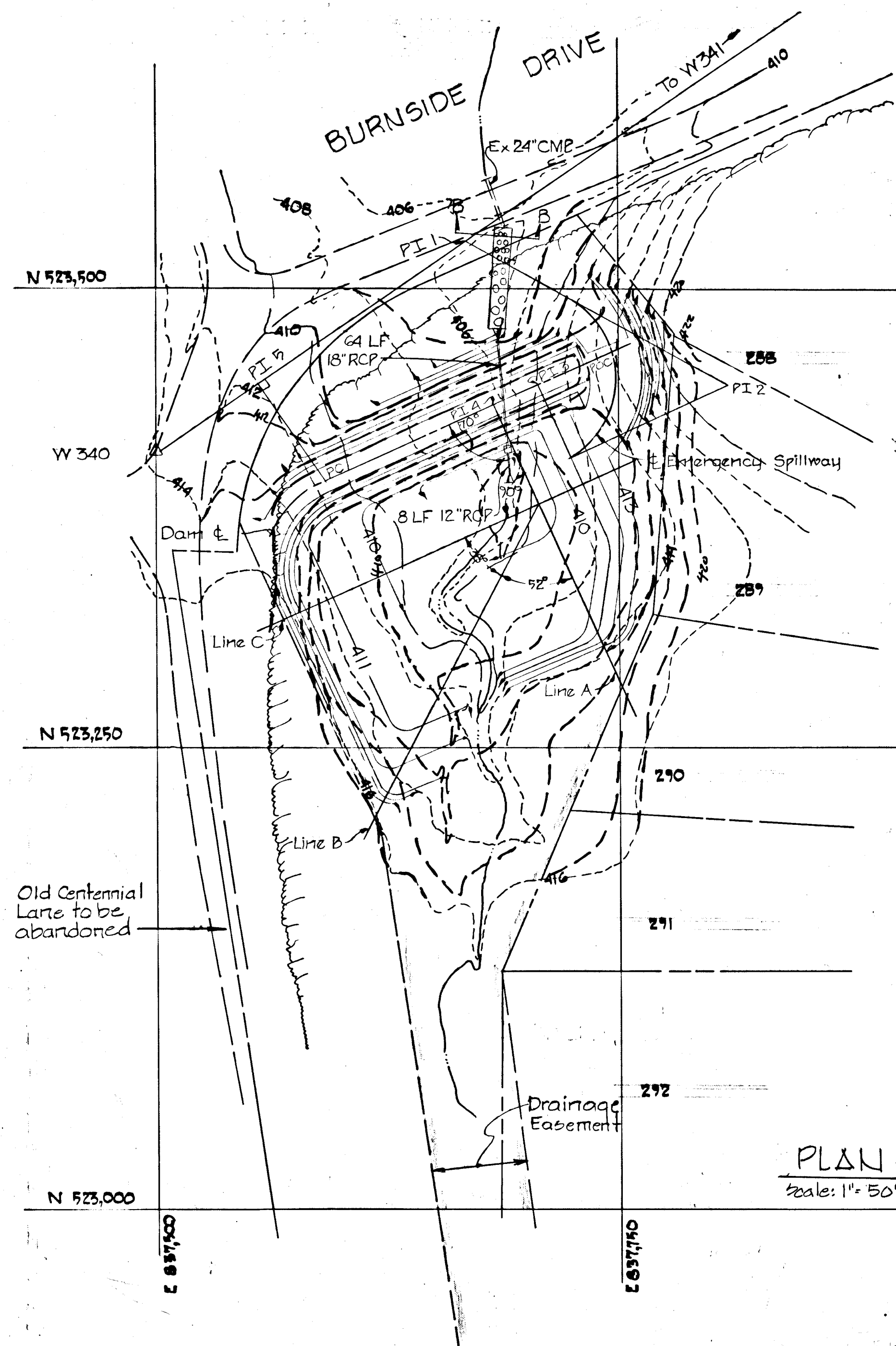
THIS DEVELOPMENT PLAN IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
 APPROVED: [Signature] DATE: 12/27/79  
 HOWARD S.C.D.

CERTIFICATION BY THE DEVELOPER  
 "WE CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND WE ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
 JOHN DeGROOT BRANCH MANAGER  
 MICHAEL E. McGUIRE MANAGER, LAND DEVELOPER  
 DATE: 12/27/79

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, P.E. 1974  
 DATE: 10-29-79

OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

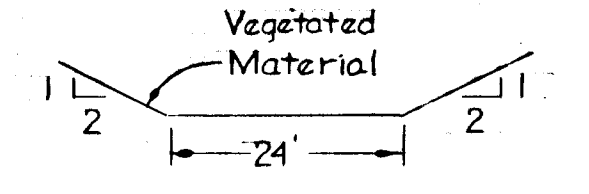
BURLEIGH MANOR SECTION 5  
 2ND ELECTION DISTRICT HOWARD COUNTY, MD.  
 TANYA CT. DRAINAGE AREA MAP & SEDIMENT CONTROL PLAN  
 SCALE: 1" = 50' DATE: Oct. 25, 1979  
 WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
 BALTIMORE, MARYLAND 21202  
 KENNETH A. McCORD REGISTERED ENGINEER NO. 1974



STORM WATER MANAGEMENT DATA

YEAR STORM	PEAK INFLOW (CFS)	MAX. ALLOWABLE RELEASE (CFS)	MAX. RELEASE (CFS)	STORAGE (FT <sup>3</sup> )	PEAK ELEV.
2	23.7	7.8	7.1	23,400	410.85
10	58.8	27.8	21.0	59,500	412.57
100	108	-	80.9	86,600	413.61

SEDIMENT CONTROL DATA  
 DRAINAGE AREA: 27.6 Ac  
 SEDIMENT VOLUME REQUIRED: 1850 Cy  
 SEDIMENT VOLUME AVAILABLE: 1860 Cy  
 CLEAN OUT ELEVATION: 411.20  
 See Temporary riser detail sht. 12



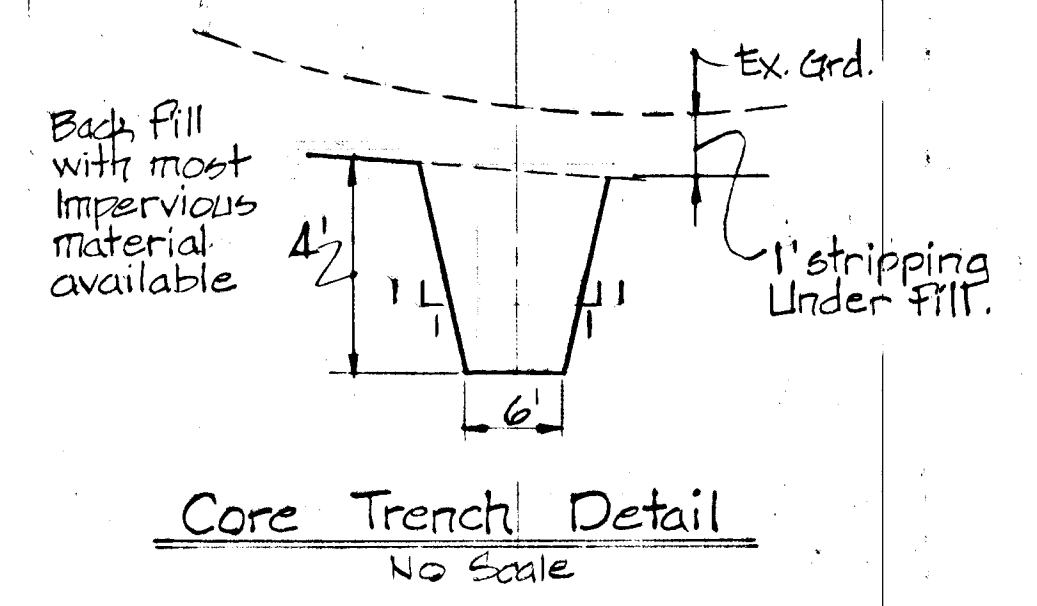
- NOTES:
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STORM WATER MANAGEMENT POND DESIGN MANUAL, MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS", CONSTRUCTION SPECIFICATIONS STARTING PAGE 6-7.
  - THE POND SHALL FUNCTION INITIALLY AS A SEDIMENT BASIN AND SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION WORK WITHIN THE DRAINAGE AREA. THE TEMPORARY RISER SHALL BE CONSTRUCTED. INITIAL SEEDING SHALL BE APPLIED TO ALL CUT AND FILL EMBANKMENTS FROM TOE TO TOP OF SLOPE AND TOP ELEVATION OF THE EARTH DAM. THE INVERT OF THE POND SHALL BE PERMANENTLY SEEDED AFTER THE POND IS REFURBISHED. RIP RAP WITHIN THE POND IS TO BE PLACED DURING REFURBISHING.
  - BORROW FILL FOR CONSTRUCTION OF THE EARTH EMBANKMENT MAY BE TAKEN FROM ROADWAY CUT SECTIONS.
  - EARTH SECTIONS SHALL BE COMPACTED TO AT LEAST 95% OF THE OPTIMUM DENSITY.
  - Pond Restoration  
 REFURBISHING OF THE POND SHALL BE DONE AFTER ALL CONSTRUCTION IS COMPLETED AND GRASS IS ESTABLISHED WITHIN THE POND DRAINAGE. REFURBISHING OF THE POND SHALL INCLUDE: PUMPING OUT ALL WATER, REMOVAL OF THE 42" TEMPORARY CMP RISER, REMOVAL OF ALL SEDIMENT, THE RESTORATION OF THE POND TO LINES AND GRADES AS SHOWN ON THE PLANS, THE CONSTRUCTION OF THE PERMANENT RISER REMOVING ALL SOFT NATURAL AND DEPOSITED MATERIAL FROM UNDER THE PERMANENT RISER FOUNDATION, THE PLACEMENT OF ALL FILTER CLOTH AND RIP RAP STONE, THE PERMANENT RESEEDING OF ALL THE DISTURBED GRADED SURFACES, AND THE CLEANING OF THE PRINCIPAL SPILLWAY AND OUTFALL DITCH.
  - AFTER THE POND IS COMPLETELY REFURBISHED THE OWNER SHALL SUBMIT "AS BUILT" DRAWINGS TO THE HOWARD SOIL CONSERVATION DISTRICT.

EMERGENCY SPILLWAY AND DAM DATA

BACKSIGHT	INSTRUMENT	FORESIGHT	DISTANCE	CLOCKWISE	ANGLE
W341	W340	PI 1	206.24'	0° 0' 00"	
W341	PI 1	PC	59.58'	63° 7' 45"	
W341	PI 1	PI 2	159.86'	63° 7' 45"	
PC	PI 2	PT	100.28'	307° 0' 00"	
PI 2	PT	PI 3	40.00'	270° 0' 00"	
PT	PI 3	POC	48.99'	270° 0' 00"	
PT	PI 3	PI 4	21.00'	90° 0' 00"	
PT	PI 3	PC	121.00'	90° 0' 00"	
PI 3	PC	PI 5	64.31'	259° 52' 15"	
PC	PI 5	W340	67.69'	90° 0' 00"	

PC TO PT ALONG EMERGENCY SPILLWAY  
 CRD 89.49' BR N 2° 33' 32" E  
 ARC 110.83' DEL. 126° 59' 56"  
 RAD 50.00' TAN 100.28'

COORDINATES OF TRAVERSE PTS.  
 W340 N 523 410.740 E 837 498.871  
 W341 N 523 670.039 E 837 882.280



THIS PLAN HAS BEEN REVIEWED BY THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.  
*A. Helms* 12/27/79  
 U.S. SOIL CONSERVATION DISTRICT DATE

THIS PLAN FOR SMALL POND CONSTRUCTION MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Robert D. Zichner* 12/27/79

CERTIFICATION BY THE DEVELOPER  
 WE CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION OF THIS POND WILL BE DONE ACCORDING TO THIS PLAN. WE ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. WE WILL AUTHORIZE A REGISTERED PROFESSIONAL ENGINEER TO SUPPLY THE HOWARD SOIL CONSERVATION OFFICE WITH AN AS BUILT PLAN OF THIS POND WITHIN 30 DAYS OF THE PONDS COMPLETION.

*John DeGroot* 10-29-79  
 BRANCH MANAGER DATE

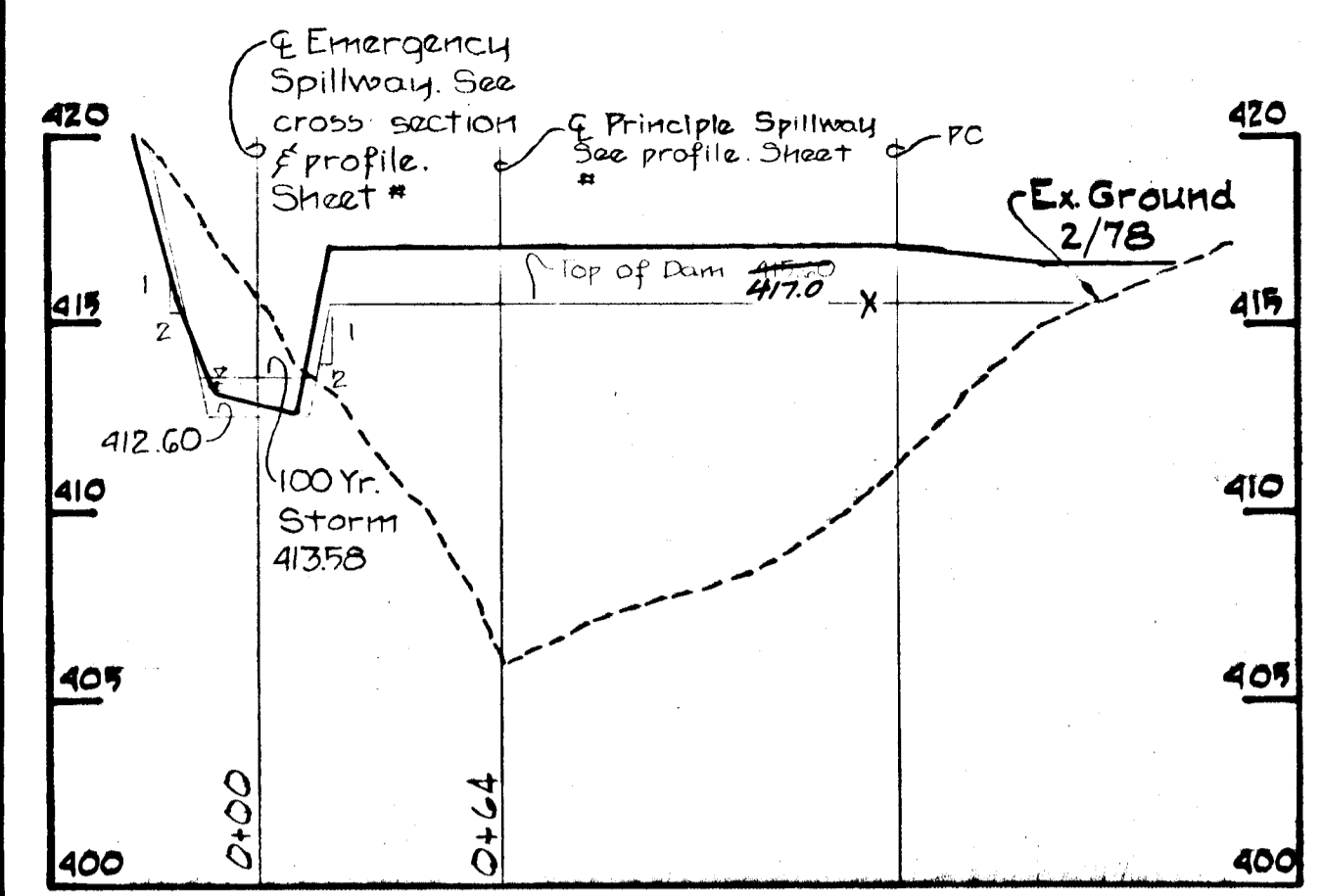
*Michael E. McGuire* 10-29-79  
 MANAGER, LAND DEVELOPMENT DATE

CERTIFICATION BY THE ENGINEER  
 I CERTIFY THAT THIS PLAN FOR SMALL POND CONSTRUCTION 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.

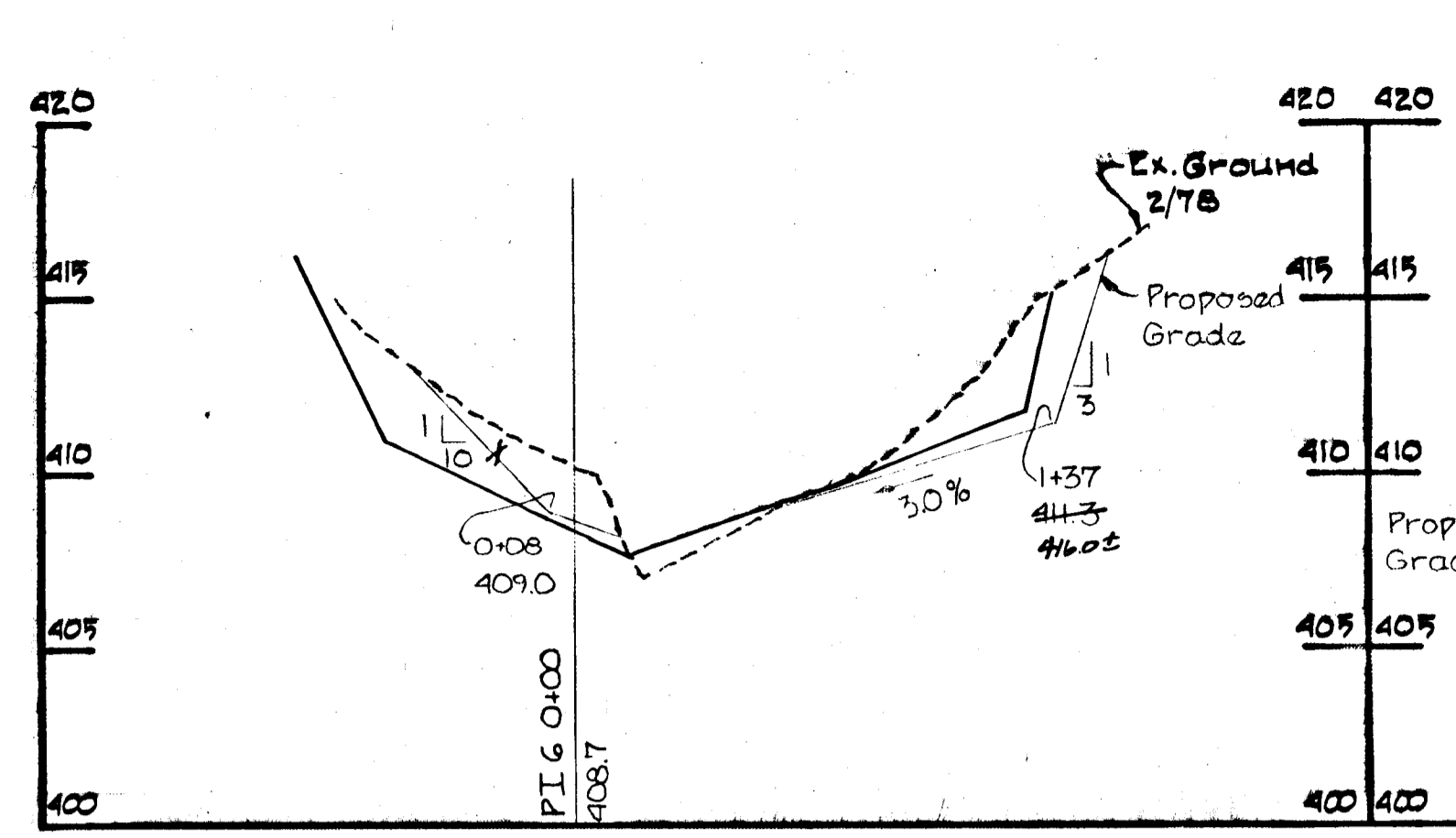
*Kenneth A. McCord* 10-29-79  
 KENNETH A. MCCORD P.E. 1974 DATE

BURLEIGH MANOR SECTION 5  
 2<sup>ND</sup> ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 STORM WATER MANAGEMENT PLAN & DETAILS  
 SCALE: AS SHOWN DATE: Oct. 25, 1979  
 WHITMAN, REQUARDT & ASSOCIATES ENGINEERS  
 BALTIMORE, MARYLAND 21202  
*Kenneth A. McCord*  
 KENNETH A. MCCORD REGISTERED ENGINEER No. 1974

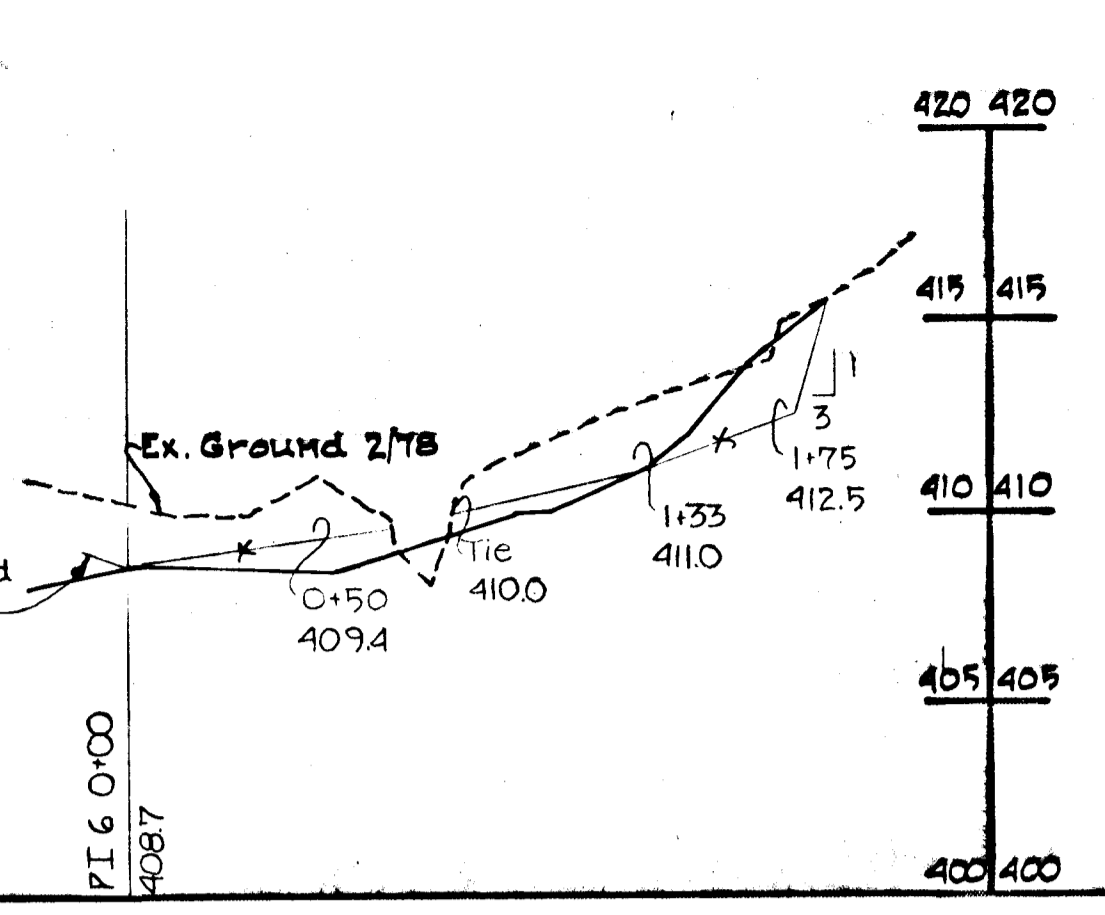
OWNER & DEVELOPER  
 COSTAIN WASHINGTON INC.  
 1010 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030



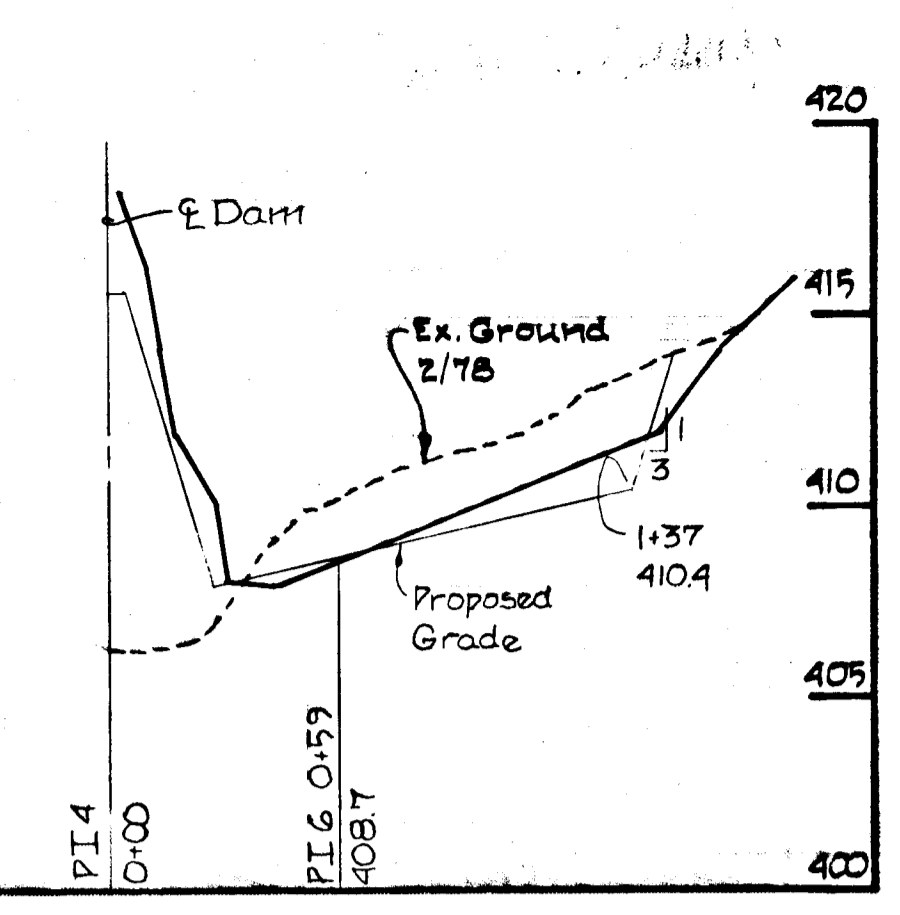
Profile of Dam  
 1" = 5' V  
 1" = 50' H



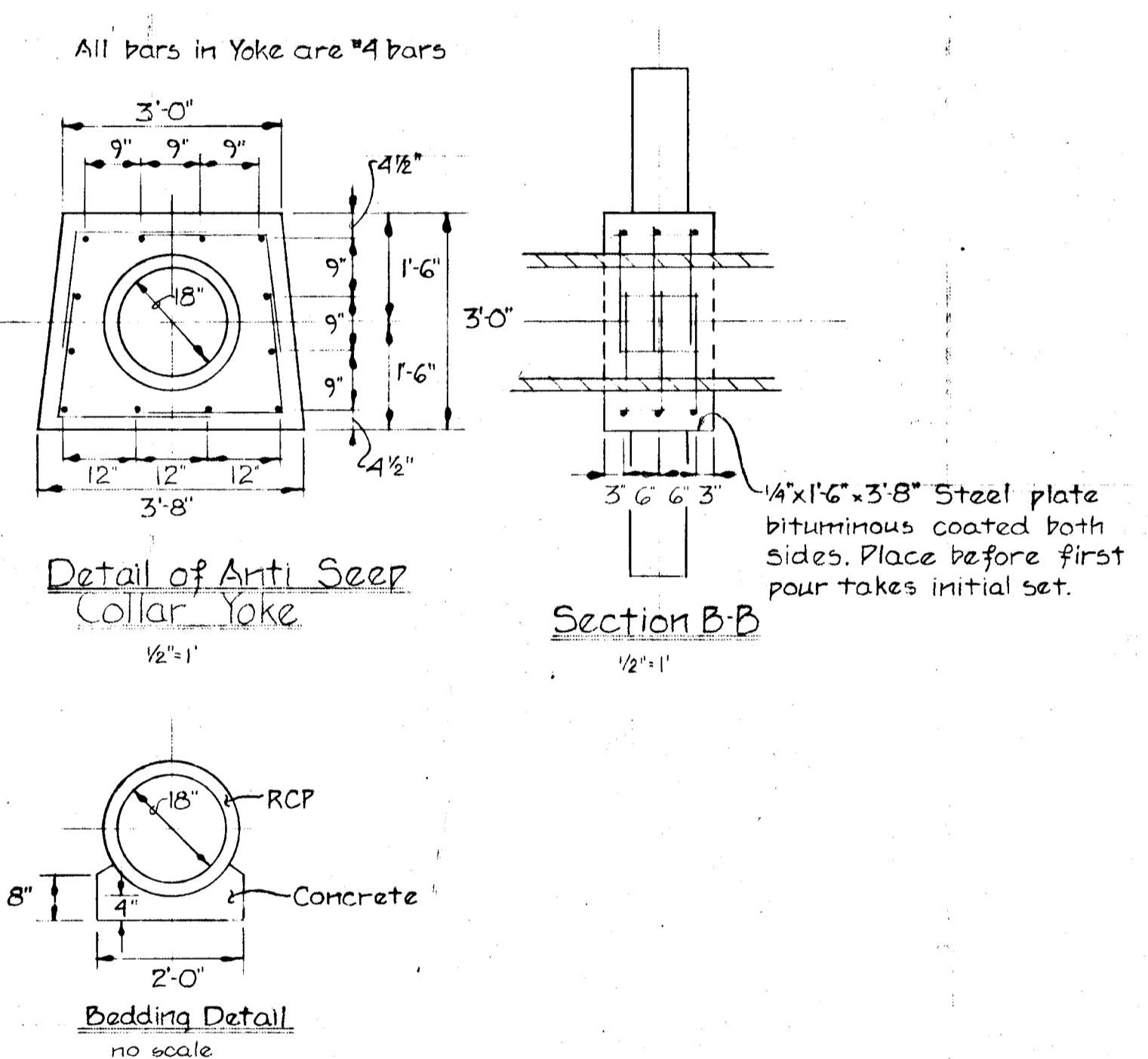
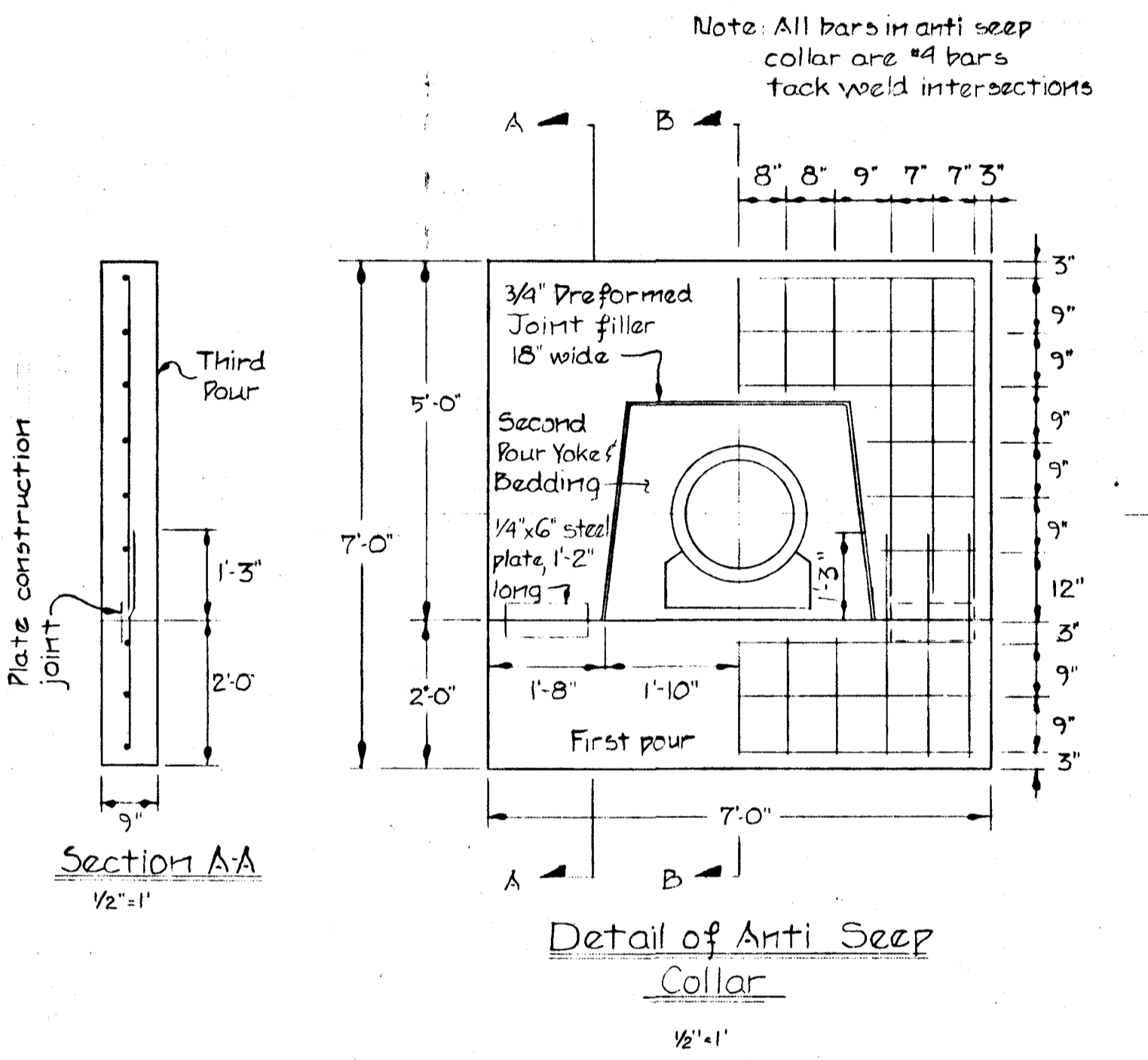
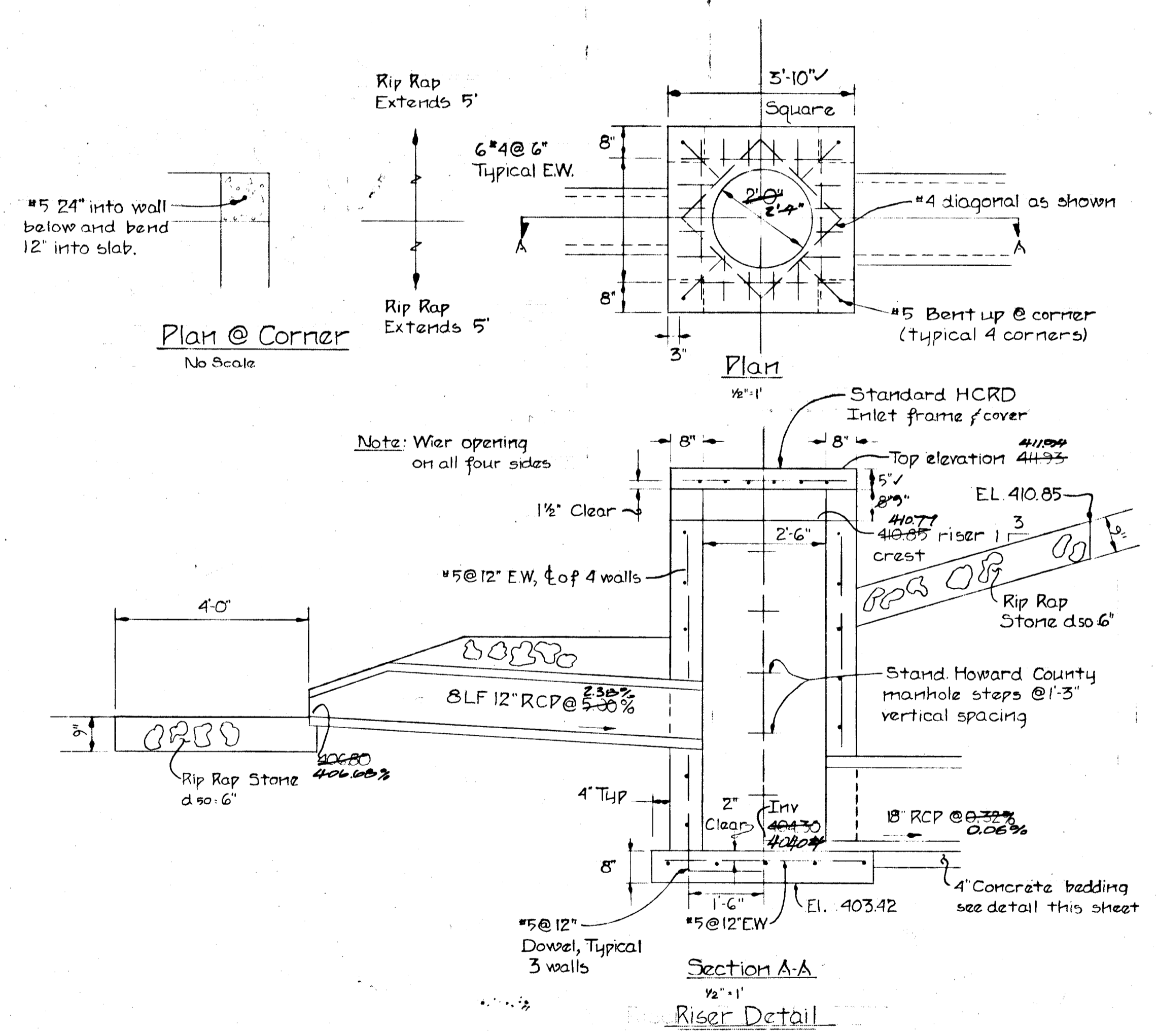
Profile Line C  
 1" = 5' V  
 1" = 50' H



Profile Line B  
 1" = 5' V  
 1" = 50' H



Profile Line A  
 1" = 5' V  
 1" = 50' H



I HEREBY CERTIFY THAT THE AS BUILT IS ACCURATE AND COMPLETE AND THAT THE POND AS CONSTRUCTED MEETS THE REQUIREMENTS OF THE STANDARDS AND SPECIFICATIONS FOR PONDS AS PER KIDDE CONSULTANTS INC. FIELD LOCATIONS AND A TEL ASSOCIATES INC. CERTIFICATION LETTER.  
 R. L. UMBARBER 9/18/81

THIS PLAN FOR SMALL POND CONSTRUCTION MEETS THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Richard Zichner* 12/29/79  
 HOWARD S.C.D. DATE

THIS PLAN HAS BEEN REVIEWED BY THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.  
*J. Helms* 12/29/79  
 U S SOIL CONSERVATION SERVICE DATE

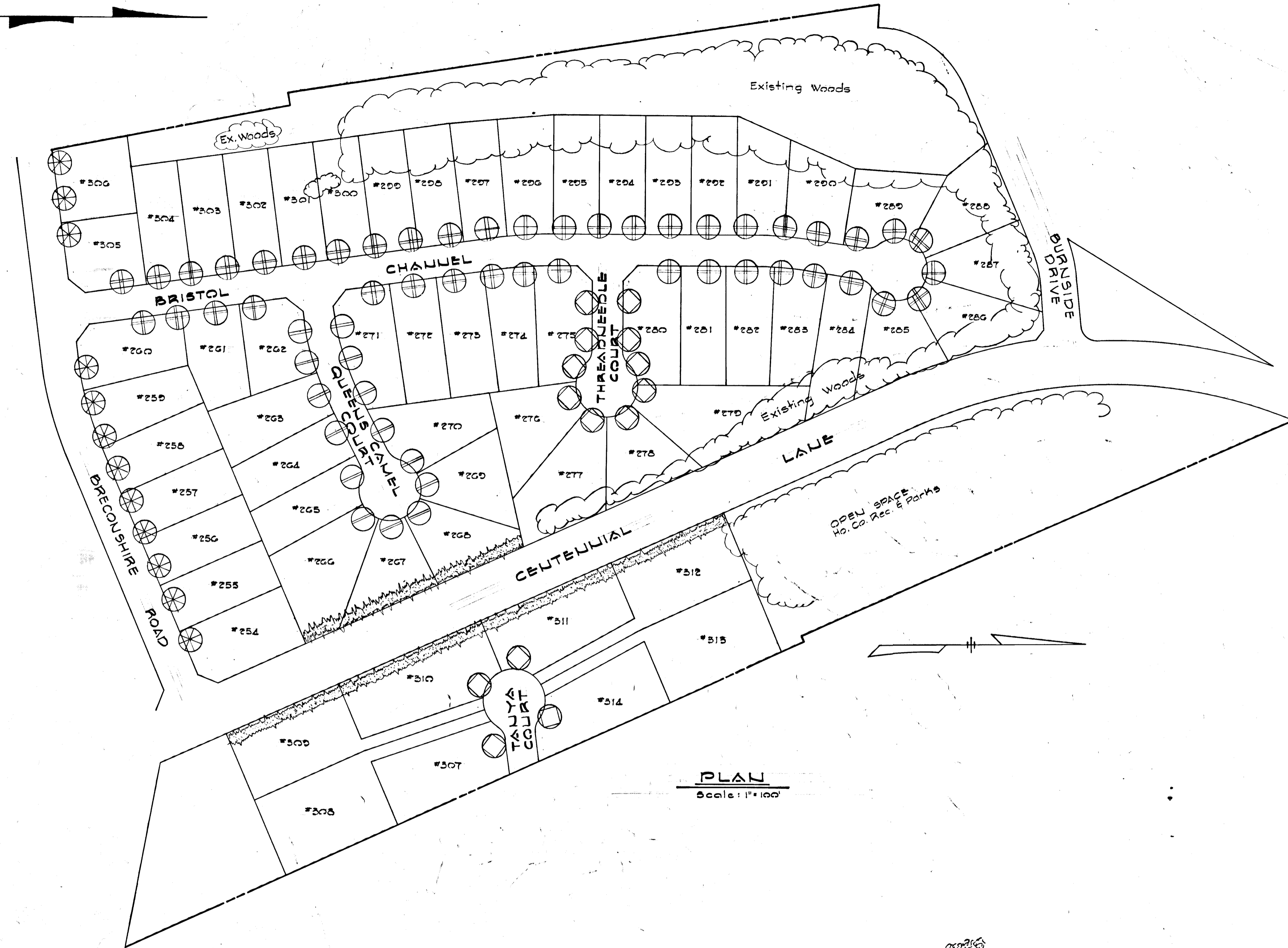
CERTIFICATION BY THE DEVELOPER  
 I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION OF THIS POND WILL BE DONE ACCORDING TO THIS PLAN. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL AUTHORIZE A REGISTERED PROFESSIONAL ENGINEER TO SUPPLY THE HOWARD SOIL CONSERVATION OFFICE WITH AN AS-BUILT PLAN OF THIS POND WITHIN 30 DAYS OF THE PONDS COMPLETION.  
*John DeGroot* JOHN DeGROOT BRANCH MANAGER  
*Michael E. McGuire* MICHAEL E. MCGUIRE MANAGER, LAND DEVELOPMENT

CERTIFICATION BY THE ENGINEER  
 I CERTIFY THAT THIS PLAN FOR SMALL POND CONSTRUCTION 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* 10-29-79  
 KENNETH A. MCCORD, P.E. DATE

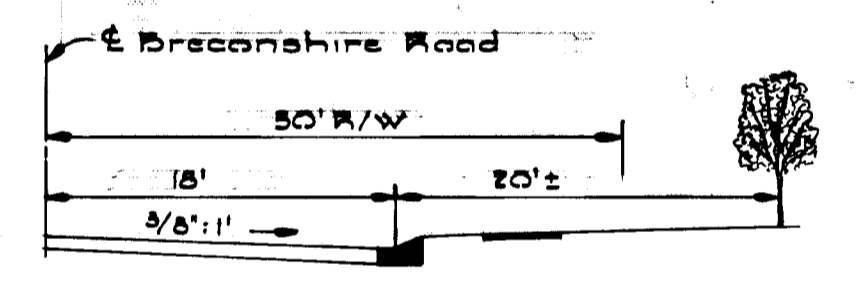
OWNER AND DEVELOPER  
 COSTAIN WASHINGTON INC.  
 10710 LEE HIGHWAY SUITE 201  
 FAIRFAX, VIRGINIA 22030

**BURLEIGH MANOX**  
 SECTION 5  
 2<sup>ND</sup> ELECTION DISTRICT, HOWARD COUNTY, MARYLAND  
 Storm Water Management Details  
 SCALE: As Shown DATE Oct. 25, 1979  
 WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202  
*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 REGISTERED ENGINEER  
 NO. 1974

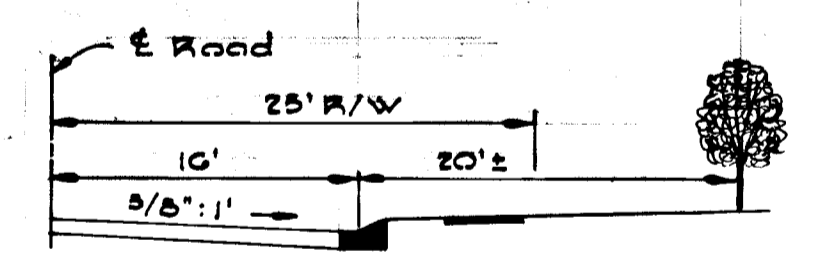




**PLAN**  
 Scale: 1"=100'



**HALF SECTION - STREET PLANTING**  
 BRECONSHIRE ROAD  
 Scale: 1"=10'



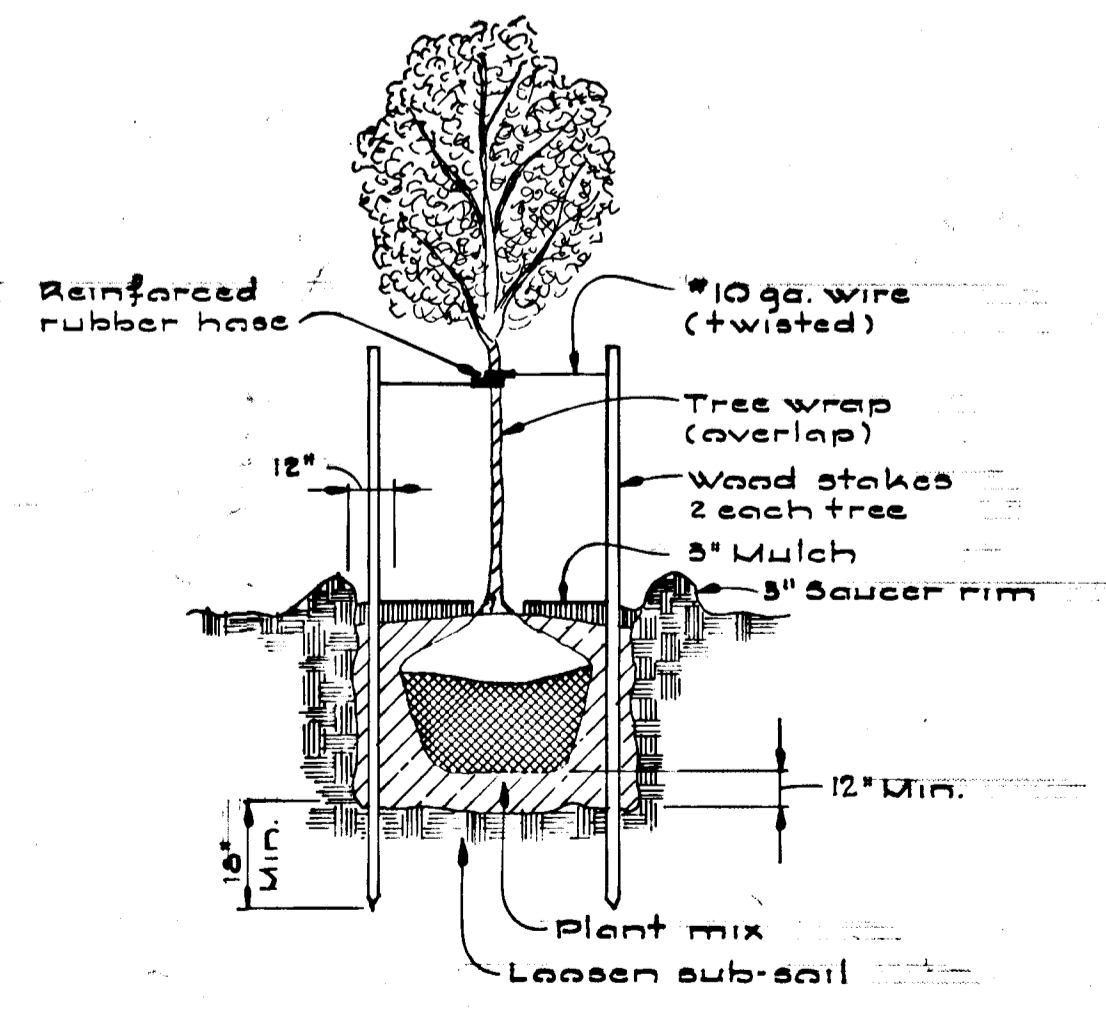
**HALF SECTION - TYPICAL STREET PLANTING**  
 Scale: 1"=10'

**GENERAL NOTES:**

- Field conditions such as walks, driveways, underground utilities, cleanouts, etc. shall determine the final location of street tree plantings.
- All trees shall be balled and burlapped or container grown.
- All trees shall be firmly staked. (See detail this sheet)
- Plant mix per cubic yard: 5 parts topsoil, 1 part peat moss & 2 pounds fertilizer (10-6-4).
- Plant mix shall be thoroughly mixed on site.
- All planting shall be guaranteed one calendar year from time of acceptance.

PLANT LIST*		
SYMBOL	NAME	QUANTITY
⊖	PYRUS CALLERYANA BRADFORD - BRADFORD PEAR	14
⊕	QUERCUS PALUSTRIS PINQAK	42
⊗	PLATANUS ACERIFOLIA LONDON PLANETREE	12
⊙	TILIA CORDATA LITTLE LEAF LINDEN	14
⊛	PINUS STROBUS WHITE PINE	40

\* ALL TREES SHALL BE A MINIMUM OF 1 1/2" CAL. (DBH High)



**TREE STAKING DETAIL**  
 No Scale

**BURLEIGH MANOR**  
 SECTION 5  
 2nd ELECTION DISTRICT HOWARD COUNTY MD.  
 ROAD LANDSCAPE & DETAILS  
 SCALE: As Shown DATE: Dec. 12, 1979

WHITMAN REQUARDT & ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21202

*Kenneth A. McCord*  
 Kenneth A. McCord  
 Registered Engineer  
 No. 1974

Owner and Developer  
 Costain Washington Inc.  
 10710 Lee Highway, Suite 201  
 Fairfax, Virginia 22030