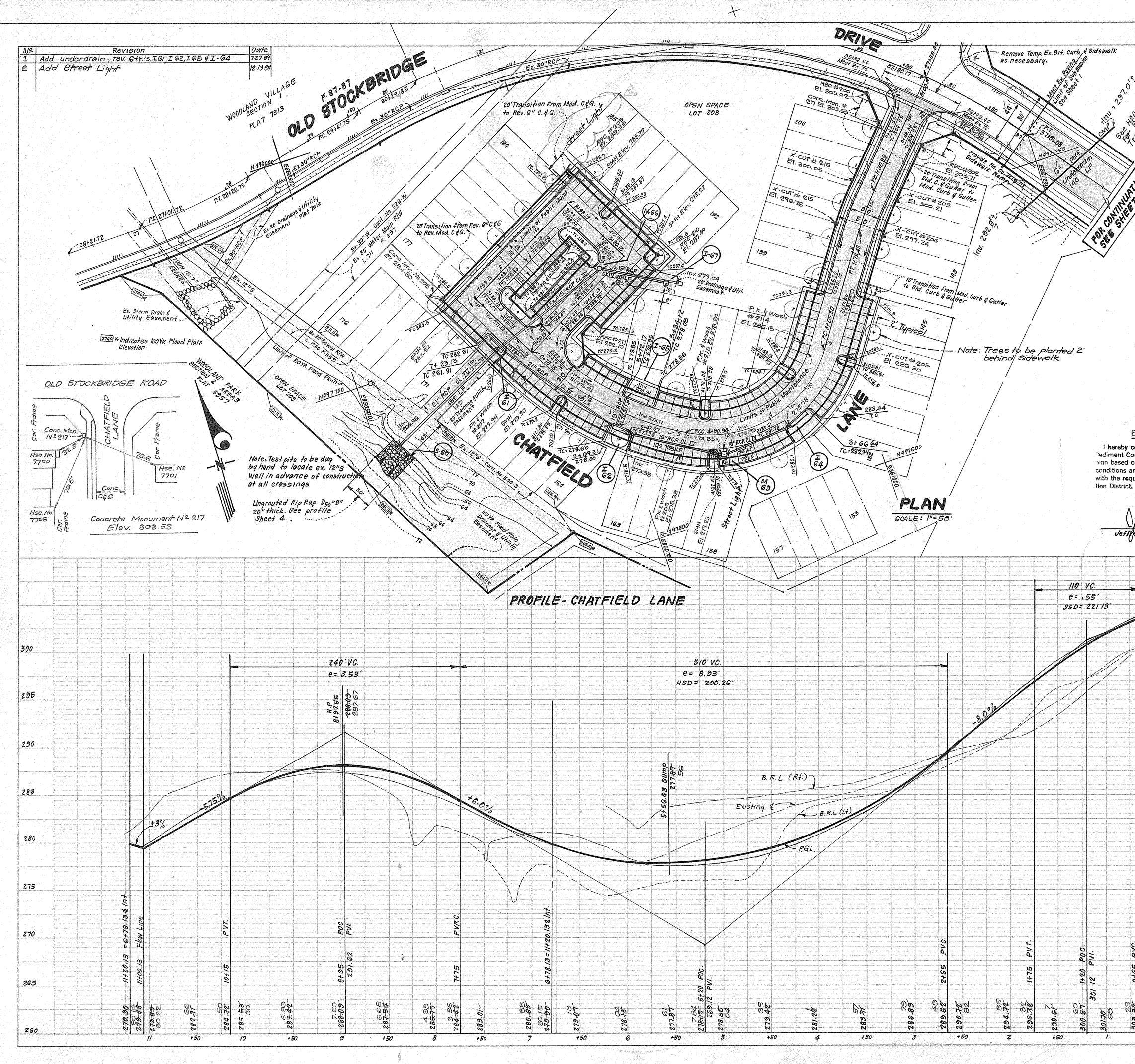


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N.C.

Reverse V(F-81-41) SOUTURE V(F-81-41) SOUTUR	 GENERAL NOTES All storm chain & paving shall be constructed in accordance with the late edition and specifications of Howard County & MOSHA. Types of storm chainage refer to the Standard Details of Ho. Co. & MI. Trench compaction for storm drains within road or street right of wa shall be in accordance with "Ho Co. Design Manual, Vol III" Std. G. 201. Information concerning undergramed utilities was obtained from ave records but the contractor must determine the exact location and ele mains by diaging test pits, by hand, at all utility crossings, well in of construction. All utility companies shall be notified 24 hrs. in advance of constru- tion. All utility companies shall be notified 24 hrs. in advance of constru- tion. All traffic services, parking and signing to be done in accordance the "Manual of Uniform Traffic Control Devices," 1978 Edition. Bag and Crest Vertical Curves were designed in accordance with Design Manual." Vol. III. Provide Conc. Sidewalk Ramps Ho.Co. Std. Type A. R.4-01 where shu Design Manual." Vol. III. The contractor or developer shall contact the Construction Inspect. Division 24 hrs. in advance of commencement of work Ph. 792-71. Storm Water Management for this project has been waived preliminary plant P.86-64. 	DSHA. y limits ailable evation of advance uction with "Ho. Co. WMN in plan. Non / Gurvey
CIX 81 LF 22 HILL IN TON 3 CIX 81 LF 22 HILL IN TON 3 CIX 12 12 12 12 12 12 12 12 12 12 12 12 12	APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Chief, Land Development Division Given Chief, Bureau of Highways Chief, Bureau of Engineering (acting) Chief, Bureau of Engineering (acting) APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Chief, Division of Community Planning and Land Development.	<u>G[17]88</u> <u>Date</u> <u>Gf=7/88</u> <u>Date</u> <u>Co[29]88</u> <u>Date</u> <u>Date</u> <u>Date</u> <u>Date</u>
VEER'S CERTIFICATE that this plan for Erosion and represents a practical and workable personal knowledge of the site it it was prepared in accordance ants of the Howard Soll Conserve-	CLARK · FINEFROCK & SACKET ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY COLUMBIA, MARYLAND 20045, 301-381 7500 B dt 301 621- DESIGNED ROAD CONSTRUCTION PLANS OLD STOCKBRIDGE DRIVE JLS NOODLAND VILLAGE DRAWN WOODLAND VILLAGE KIW SECTION 2 AREA I JLS IST ELECTION DISTRICT DATE FOR: CHATEAU BUILDERS, INC. BLD Wooded Gien Ct.	8100 Wash. SCALE As Showi DRAWING 10F 7 JOB NO. 85-148 FILE NO.
3/5 3/5 3/0	2:19:88 Ellicott City, Md 21043 PROFILE SCALE PROFILE LEGEND HORIZ. 1"=50' Profile Grade Line VERT. 1"=5' Existing B.R.L. (Rt) B.R.L. (Lt) B.R.L. (Lt) EXISTING SUPERELEVATION TABLE	85-148-D
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AS-BUILT



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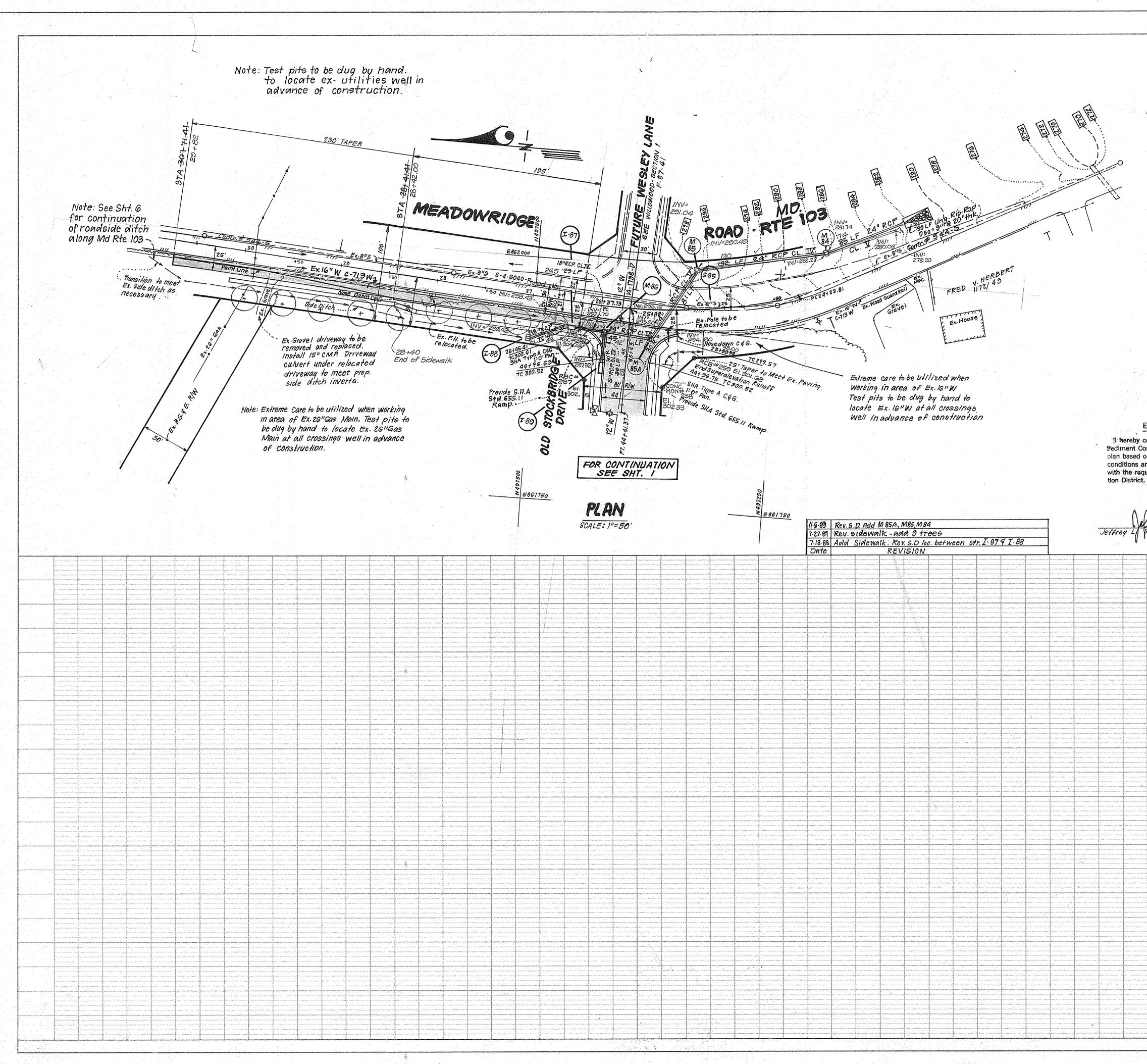
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 SUS Reviewed for Howard DEVELOPER'S/BUILDER'S CERTIFICATE ..s.c.d. Name "I/We certify that all development and construction will be done and moets Technical Requirements according to this plan of development and plan for crosion and collaboration centrel and that all responsible personnel involved in the construction Signature preject will have a Certificate of Attendance at a Dept. of Natural U.S. Soil Conservation Service Resources Approved Training Program for the Control of Sections and Bresten before beginning the project. I also authorize periodic op-site inspection by the Howard Soil Conservation District or their THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL authorized agents, as are deemed necessary." CONSERVATION DISTRICT. I Azra Kicho 2-28-88neture of Developer/Build APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. 6/17/88 chief, band Development Division <u>/27/1</u> Chief, Bureau of Highways **Hackstrag Colic** Chief, Bureau of Engineering (actions) Date 6[29/30 Date APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Chief, Division of Community Planning & Land Development. 7-21-00 Date CLARK · FINEFROCK&SACKETT, INC. ENGINEERS PLANNERS SURVEYORS ENGINEER'S CERTIFICATE COLUMBIA, MARYLAND 21045 301-381-7500 301-621-8100 7135 MINSTREL WAY I hereby certify that this plan for Erosion and reciment Control represents a practical and workable ROAD CONSTRUCTION PLANS SCALE DESIGNED bian based on my personal knowledge of the site CHATFIELD LANE As Shown JLS conditions and that it was prepared in accordance with the requirements of the Howard Soil Conserva-DRAWING. DRAWN WOODLAND VILLAGE ZOF7 KIW SECTION 2 AREA I JOB NO. CHECKED IST ELECTION DISTRICT HOWARD COUNTY, MARYLAND. 85.148 JLS 2-19-88 FOR: CHATEAU BUILDERS, INC. 8100 Wooded Glenct. Ellicott City, Md. 21043 FILE NO. DATE 85.148.D 2-19-88 PROFILE SCALE PROFILE LEGEND HORIZ. 1"=50" Profile Grade Line VERT. 1"=5' Existing & B.R.L. (RF) _____ B.R.L. (L+) _____ Jun 305 10% 300 CONC. Mon. Nº 208 Elev. 284.80 295 290 *Hse.№* 7768 Conc. .Conc. Mon No. 208 Prop Line 285 Cor Frame ·· Cor. Conc. C&O Cor. Frame 280 77: 150. 777 275 OF MAG 270 For AS-BUILT by CFES, Inc. 265 000 80.98 30 260 F-88-180

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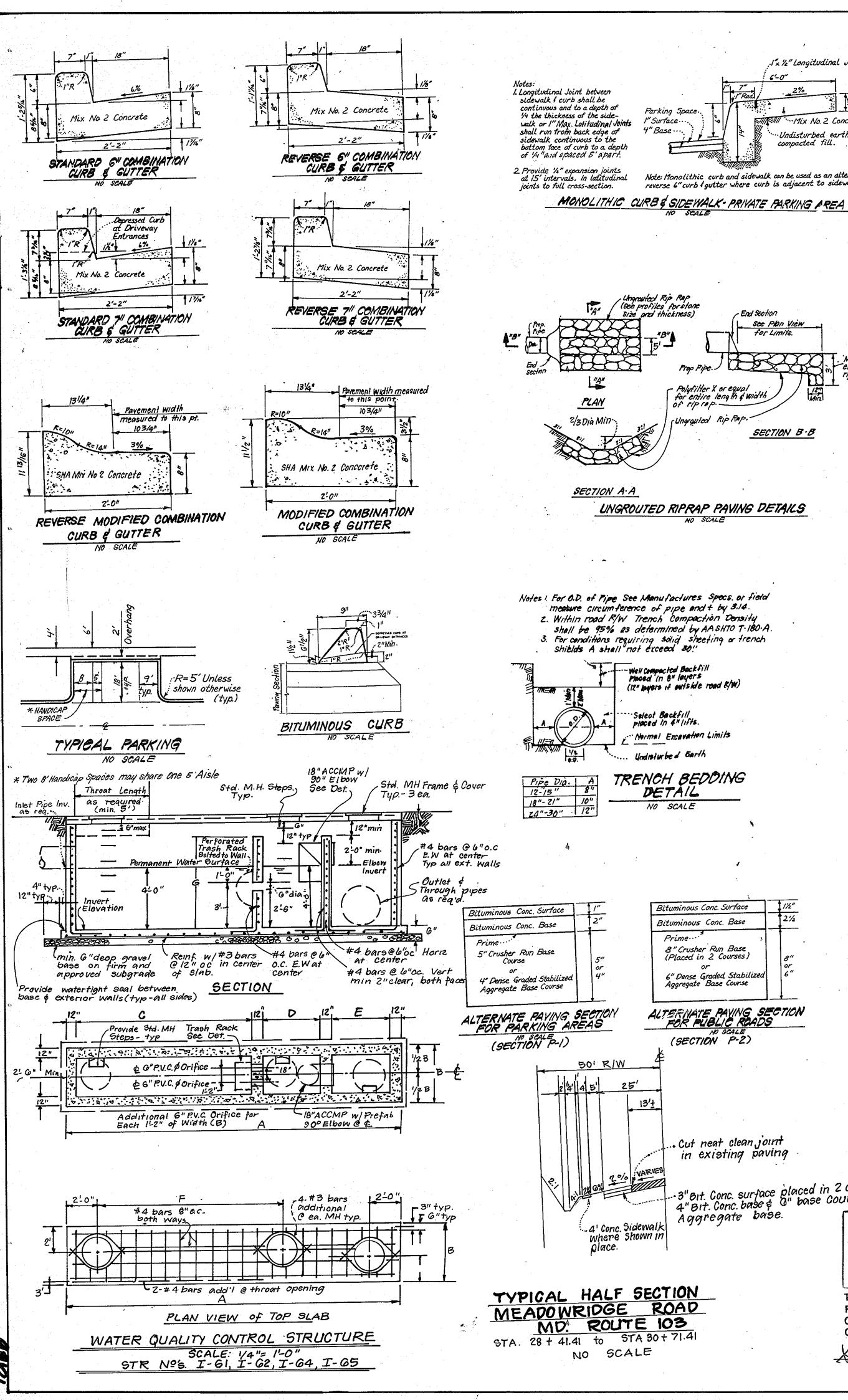
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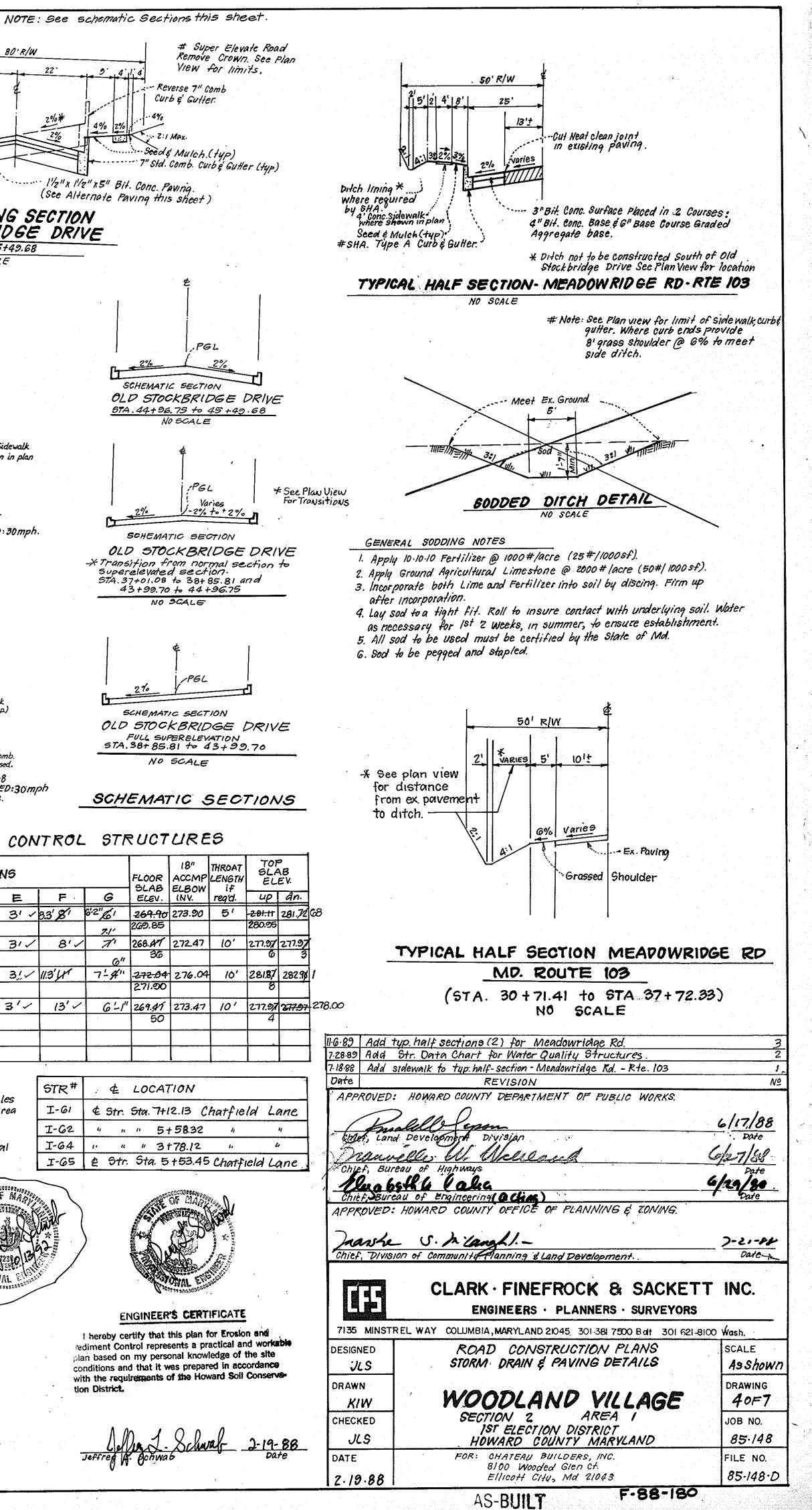
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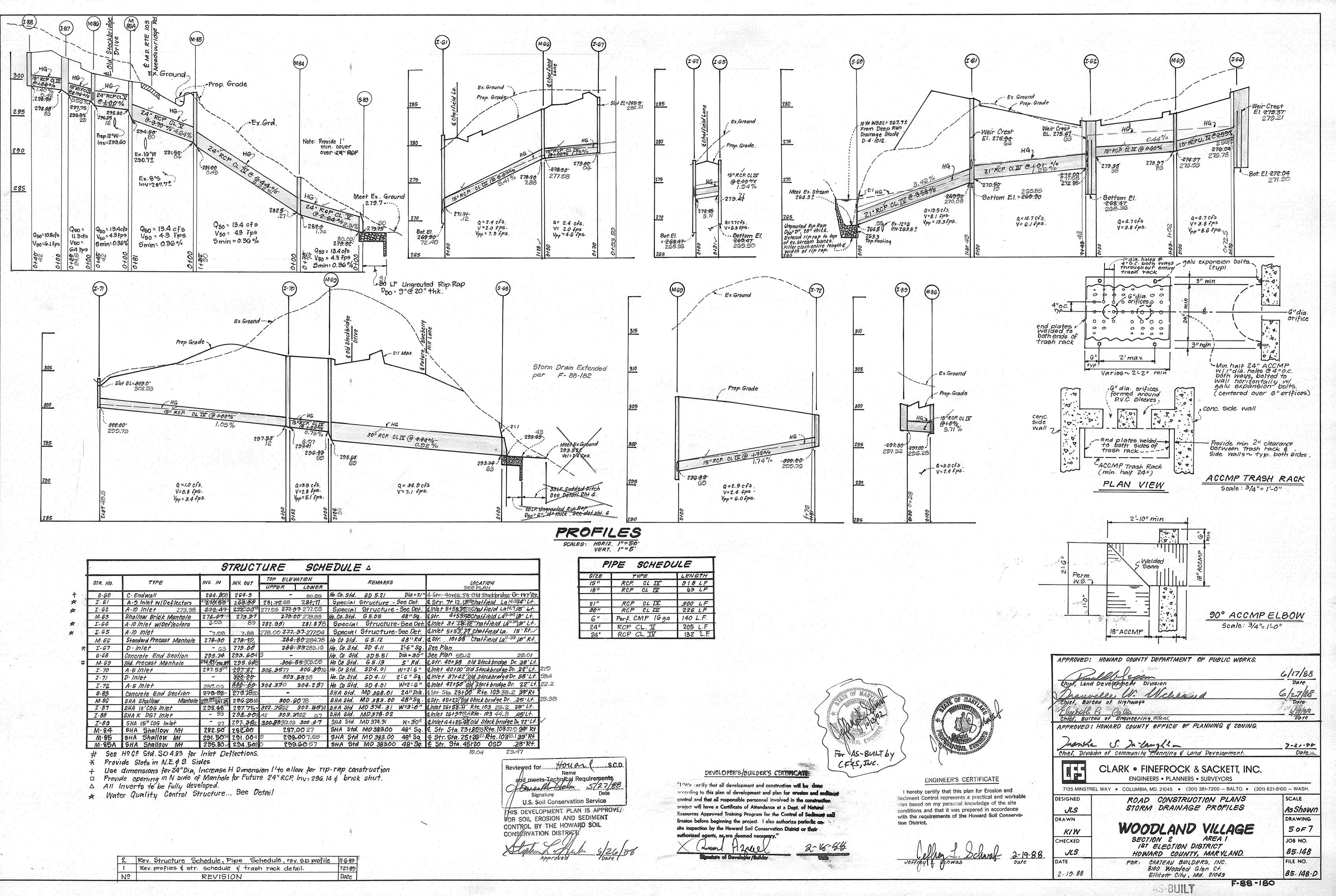
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CENTERLINE CURVE DATA © STATIONS RADIUS A ARC TAN CHORD & BEARING PC 24+22,81 to PT. 26+37.73 600.00' 20°31'22" 214.92' 108.62' 213.77' NO6° 14 '41 * W DEVELOPER'S /BUILDER'S CERTIFICATE SCD "I/We certify that all development and construction will be done Name land meets Tephnical Requirement according to this plan of development and plan for erosion and sediment Noment Helm 5127 (B control and that all responsible personnel involved in the construction Signature project will have a Certificate of Attendance at a Dept. of Natural U.S. Soil Conservation Service Resources Approved Training Program for the Control of Sediment and TS DEVELOPMENT PLAN IS APPROVED Erosion before beginning the project. I also authorize periodic on-FOR SOIL EROSION AND SEDIMENT. site inspection by the Howard Soil Conservation District or their CONTROL BY THE HOWARD SOIL authorized agents, as are deemed necessary." CONSERVATION DISTRICT. 2-18-89-Harve mature of Developer/Builde APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Chief, Land Development Division 6/17/88 Date W. Welland G/27/88 wardles, Date USA/88 Date Chief, Bureau of Highways Elizabetha Calla Chief, Bureau of Engineering Octing) APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Chief, Division of Community Planning & Land Development 7-21-00 pate -CLARK · FINEFROCK & SACKETT INC. ENGINEERS PLANNERS SURVEYORS ENGINEER'S CERTIFICATE 7135 MINSTREL WAY COLUMBIA, MARYLAND 21045 ,301 381 7500 Balt 301 621 8100 Wash. I hereby certify that this plan for Eroslon and Sediment Control represents a practical and workable ROAD CONSTRUCTION PLANS DESIGNED SCALE plan based on my personal knowledge of the site MEADOWRIDGE ROAD As Shown JLS conditions and that it was prepared in accordance with the requirements of the Howard Soll Conserva-DRAWING DRAWN WOODLAND VILLAGE 30F7 KIW SECTION 2 AREA I CHECKED JOB NO. IST ELECTION DISTRICT HOWARD COUNTY, MARYLAND 85 148 VLS play 2, Schwalt 2-19-88 FOR: CHATEAU BUILDERS, INC. 8100 Wooded Glen Ct. Ellicott City, Md. 21043 FILE NO. DATE 85 148-D 2.19-88 PROFILE LEGEND PROFILE SCALE: Profile Grade Line -HORIZ 1"=50" Existing & B.R.L. (RF) ______ VERT. |"=5 0 146 For AS-BUILT by CFES, Inc. AS-BUILT F-88-180 85.148.D



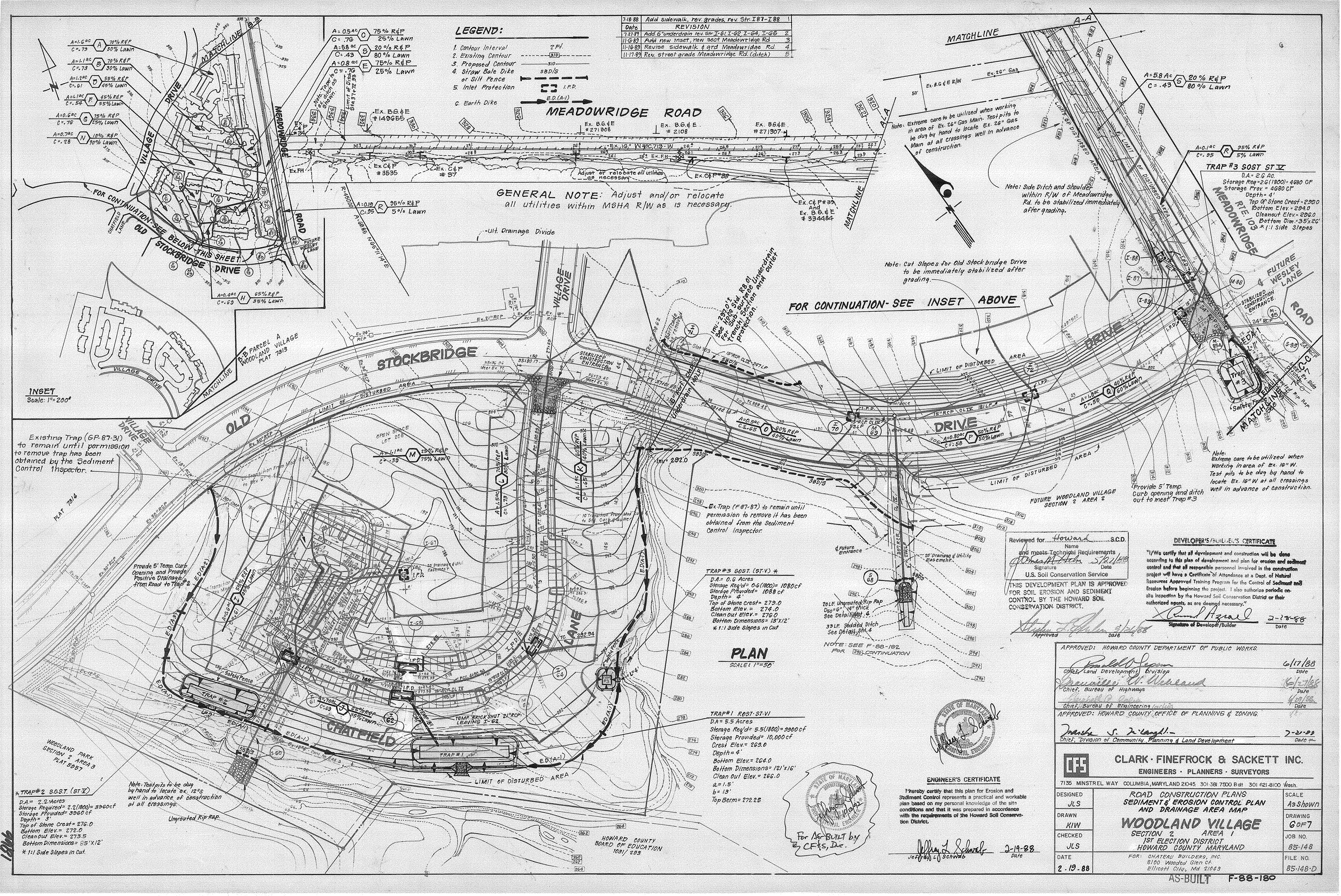
6'-0" 80' R/W Score Concrete 1'1'4' 9 1"x 1/2" Longitudinal Joint. Note #1 isee Parking 2:1 MAX. ····Mix No. 2 Concrete •Mix No.2 Concrete Space Undisturbed earth or -2" Clear 4% compacted fill. DESIGN SPEED: 40 mph MAJOR COLLECTOR RSA-8 ZONE See Detail Sht. R-2.01 Note Monolithic curb and sidewalk can be used as an alternate to reverse 6" curb f gutter where curb is adjacent to sidewalk. for Paving Detail. *6 Rebar 4 Dowels 18" Long , 6' 0/C TYPICAL PAVING SECTION ALTERNATE SECTION OLD STOCKBRIDGE DRIVE NO SCALE STA. 37+01.08 to 45+49.68 NO SCALE See Plan View or Limits Mod. Combination Curb & Gutter (typ.). Min. depth across entire length or 50' Right of Way (R/W) rip rap - Ste 15' 15' 4' 4' 1 2:1 170 .4" thick Sidewalk where shown in plan ·PGL(<u>+</u>E) SECTION B.B (typ.) 2% 47 - 1/2" Bituminous Conc. Surface) Seed or ~ 5" Bituminous Conc. Base ZONE : RSA 8. LOCAL ROAD DESIGN SPEED: 30mph. TYPICAL PAVING SECTION · CHATFIELD LANE * For Alternate Faving Section - See det. this sht. STA. 0400 to 2+37.501 50'R/W 32'01 33' 14'or 15' (Parking - where shown imit of Public Maint) nlan) 4" thick Conc.sidewalk where shown in plan (typ) --- Std. 6" Comb. . Curb { Gutter # "/"Bit. Conc. Surface)** (11/2" Bit. Conc.Surface 5" Bit. Conc. Base4"Bit.Conc. Base #Where flow is away from. * See Alternate Paving Section for Public Roads, this sht. curb & gutter, Rev. 6" Comb. Curb & Gutter shall be used. * * See Alternate Paving Section for Parking, this sht. TYPICAL HALF SECTION ZONE: RSA-8 PARKING ADIACENT TO PUBLIC ROADS DESIGN SPEED: 30mph CUL. DE.SAC. CHATFIELD LANE - STA. 2+37.50 to 11+ 20.13 NO SCALE WATER QUALITY CONTROL STRUCTURES STRUCTURE DATA: DIMENSIONS VOL. STRUCT DRAIN VOL. VOL. Nº AREA(A) REQ'D. PROV. AB C* D* E F 18 / 61 71 41 31 83 81 62"61 269.90 273.90 51 201.11 281.72 6 204 I-61 .60 240 18 V G' 7' 4' 31 8' T' 268.47 272.47 I-62 .70 Z80 308 Bituminous Conc. Surface I-64 1.10 440 440 221 61 101 51 31 1131 7-4" 272.04 276.04 10' 281.87 282.90 Bituminous Conc. Base Prime ... I-65 1.50 600 648 25' 8' 12' 6' 3' 13' 6"Crusher Run Base (Placed in 1 Course) 4¹¹ Dense Groded Stabilized Aggregate Base Course 41/2" ALTERNATE PAVING SECTION FOR MAJOR & MINOR COLLECTOR STR# NOTES: (SECTION P-3) 1. For storm drain inverts, see Storm drain profiles 2. Storage req. = 40 c.f. per 0.1 Ac. of drainage area I-61 (total storage computed to depth (F)) I-62 * When combined length of oil & grit chambers exceeds 12 feet, "D"=1/2x "C" ("C"=2/3 total and "D" = 1/3 total.). I-64 For AS-BULL by CF4S, Duc, DEVELOPER'S/BUILDER'S CERTIFICATE viewed for Houland "I/We certify that all development and construction will be dono Name and meets Technical Requirements Convertition 5/27/88 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 Dept. of Natural Signature Resources Approved Training Program for the Control of Sediment and U.S. Soil Conservation Service Brosion before beginning the project. I also authorize periodic on-THIS DEVELOPMENT PLAN IS APPROVED site inspection by the Howard Soil Conservation District or their tion District FOR SOIL EROSION AND SEDIMENT authorized agents, as are deemed necessary." CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. 2.166-83 Kum

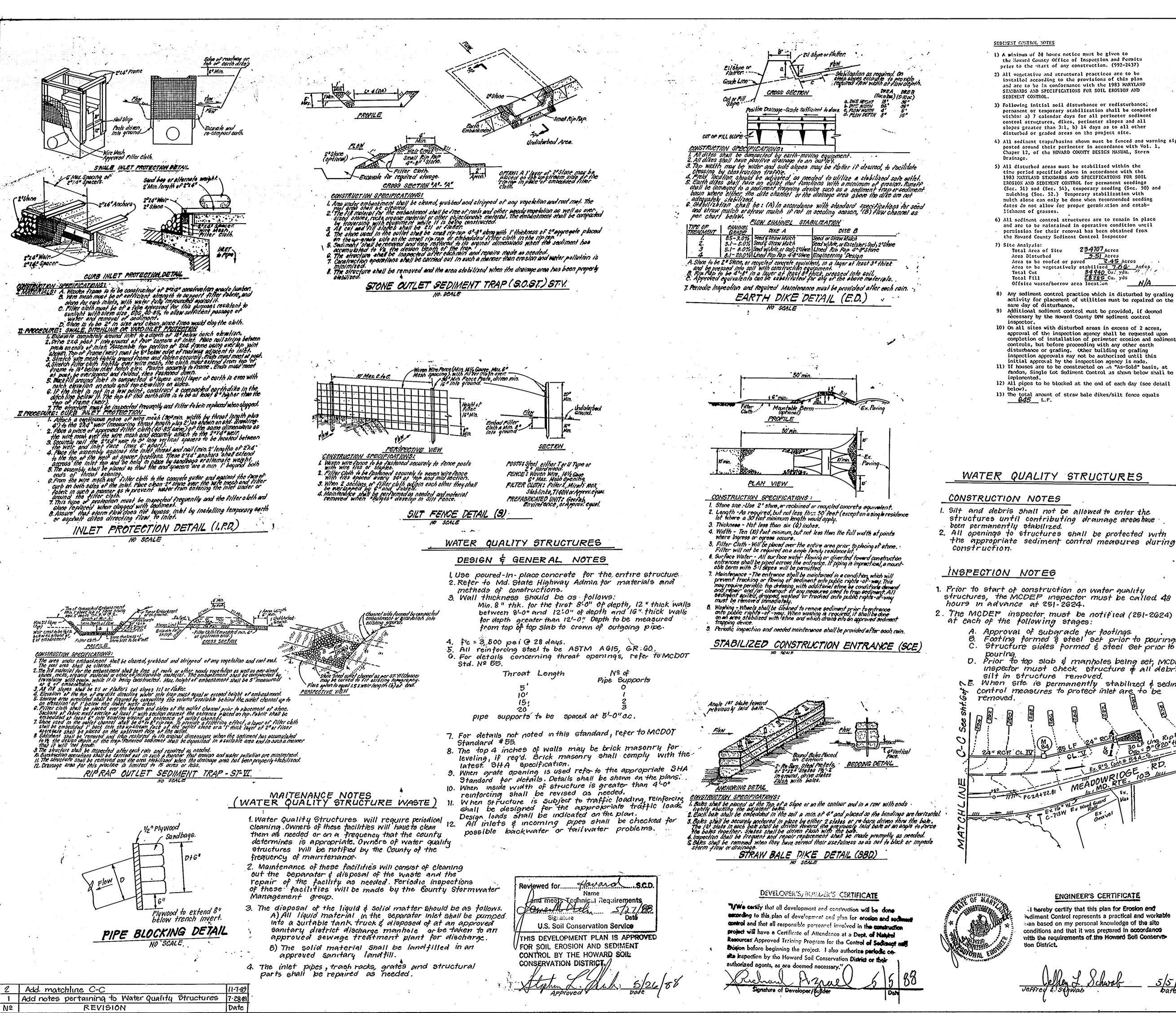




*		STRUCTURE			SCH	SCHEDULE A			
STR. NO.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS			
				UPPER	LOWER]			
5-60	C-Endwall	264.808	264.3	-	80.95	Ho. Co. Std.	SD 5.21	Dia = 21"	\$ Str. 90
I.61	A-5 Inlet w/Deflectors	27240.502	263:58	281.7208	281.11	Special	Structure -	Sec Det.	& Str. 7
I-62	A.10 Inlet 273.38	272.47	27210098	277.96 277.9	7277.03	Special	Structure	- See Det !	
M-63	Shallow Brick Manhole	274-07	273.91	279.0	0 278.88	Ho. Co. Std.	G 5.05	48"Sg.	& Str.
I-64	A-10 Inlet wideflectors	3.93	83	282.901	281.878	Special	Structure	e-See Det.	Einlet 3
I.65	A-10 Inlet	-7.98	7.88	278.00 277.	97-277.94	Special	Structure	See Det.	dinlet 5
M.66	Standard Precast Manhole	278-30	278-20	284.	80-284.78	Ho CO Std.	G 5.12	48''Rd.	¢str.
I-67	D·Inlet	- 63	279.00	286.	33283.16	Ho. Co.Std	. SD 4.11	2-6" SQ.	See Plar
8.68	Concrete End Section	293.74	293.694	3 -		Ho. Co Stol	. SD5.51	Dia = 30"	- C
M.69	Std. Precast Manhole	296.89/296,89			6-5-305.99	HO CO Std		5' Rd.	d. str. 40
I 70	A.5 Inlet	297.5359	297.41	306.9577	306.8576	Ho. Co Std.	504.01	W=2:6"	elnlet 4
I-71	D. Inlet		300.00	303.	83 38	Ho. Co.Sid.	SD 4.11	216" Sg.	Cinlet 3
I.72	A.5 Inlet	280.03	300.00-	304.370	304.297	No Co Std	. 50 4.01	W=2:6"	¢Inlet 4
8-83	Concrete End Section	279-92-	279.2530	*		SHA Std.	MD 368.01	24" Dia.	4str Sta
M.86	SHA Shallow Manhole	296.95297.00		8	078	SHA Std.	MD 383.00		& Str. 45.
I.87	SHA 10'COG Inlet	298.48			302.55H	SHA Std	MD 374.31	W=3-0"	¢inlet 261
I-88	SHAK DGT Inlet	- 83	298-909	42 303.3	162 67	SHA Std.	MD378.02		& Inlet 20
I-89	SHA 15" COG Inlet	- 27	297. 382	300.83301.03	300.47	SHA Std.	MD 374.31	W= 3'0"	CInlet 40
M-84	SHA Shallow MH	282.50	282.00		0027	SHA Sta	MD 383.00	48" Sq.	& Str S
M-85	SHA Shallow M	291.5004		9 298	.007.59	SHA Sta	MD 383.00		¢ Str. S
M-85A	SHA Shallow M		294.508		6057		1 MD 383.00	the second s	

2	Rev. Structure Schedule, Pipe Schedule, rev. S.D. profile	11.6.89
1	Rev. profiles & str. schedule & trach rack detail.	7.27.89
Nº	REVISION	Date





1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437) 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND

3) Following initial soil disturbance or redisturbance; permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm

1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with nulch alone can only be done when recommended seeding dates do not allow for proper germination and estab-

6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector

234707 Acres Area to be roofed or paved 2.4F a Area to be roofed or paved 2.45 Acres Area to be vegetatively stabilized 7.06 Acres <u>34940</u> Cu. yds. <u>Z8285</u> Cu. yds Offsite waste/borrow area location

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the

necessary by the Howard County DPW sediment control

approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading nspection approvals may not be authorized until this initial approval by the inspection agency is made. 11) If houses are to be constructed on in "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall b

12) All pipes to be blocked at the end of each day (see detail

Footing formed & steel set prior to pouring. Structure sides formed & steel Set prior to

Prior to top slab & manholes being set, MCDEP inspector must check structure & all'debris & When site is permanently stabilized & sediment

control measures to protect inlet are to be

ERMANENT SEEDING NOTES Apply to graded or cleared areas not subject to immediate further disturbance where

a permanent long-lived vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft)

and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).

 Acceptable - Apply 2 tons per acre dolositic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harfow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thre July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/ acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

<u>Mulching</u> - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq, ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per scre (5 gal/1000 sq ft) of emulsified asphalt on flac areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Vaintenance - Inspect all seeded areas and make needed repairs, replacements and

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

<u>Seedbed Preparation</u>: Loosen upper three inches of soil by raking, discing or other . acceptable means before seeding, if not previously bosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 25 bushel per acre of annual rye (3.2 lbs/1000 sq It). For the period Hay 1 thru

August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Hulching: Apply 14 to 2 tons per acre £70 to 90 lbs/1000 ag ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 343 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



1.	Obtain Grading Permit	7	day
2.	Install Sediment & Erosion control measures.	21	day
3.	Clear and Rough Grade site. Immediately stabilize cut slopes along Old Stockbridge Drive and side ditch and shoulder along Meadowridge Road after grading.	، 30	day
4.	Construct Storm Drainage. Install temporary 18" CMP at Str. I-62, brick shut 21" RCP leaving Str. I-62 and install IPD's.	60	day
5.	Construct Utilities.	90	day
6.	Fine Grade and Construct Paving.	90	day
7.	Stabilize all disturbed areas onsite in accordance with standards and specifications.	30	đay
8. *	Upon approval of the Sediment Control Inspector remove sediment & erosion control measures and stabilize. Thoroughly flush & remove all sediment that may have accumulated with S.O. System.	30	day

CONSTRUCTION SEQUENCE.

Note: Permission to remove the two (2) existing traps is needed prior to grading Chatfield Lane. Any Grading tributary to Sediment trap \$1 will not be permitted until the drainage area to existing trap G87-31 receiving water from the temp. 30" CMP is completely stabilized and the storm drain diversion removed.

Note: This plan to be coordinated with the sediment control plan for Woodland Village Sec. 2 Area 2 F-88-182 Traps at storm drainage outfalls S-90 and S-101 to be constructed in connection with construction of storm drainage outfall S-68.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Chios, Land Development Division 6/17/88 suvelle W. Weller 6/27/88 Chief, Bureau of Highways Pate ball Q Calia 4/22/33. Date Chief, Bureau of Engincering, acting APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Chief, Division of Community. Planning & Land Development 7-21-84 Dalet CLARK · FINEFROCK & SACKETT INC. ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY COLUMBIA, MARYLAND 21045 301 381 7500 Bdt 301 621-8100 Wash. DESIGNED ROAD CONSTRUCTION PLANS SCALE SEDIMENT & EROSION CONTROL DETAILS JLS Asshown DRAWN DRAWING WOODLAND VILLAGE 70F7 KIW SECTION 2 AREA CHECKED JOB NO. IST ELECTION DISTRICT HOWARD COUNTY MARYLAND JLS 85-148 DATE FOR: CHATEAU BUILDERS, INC

8100 Wooded Gien Ct

AS-BULT F

F-88-180

FILE NO.

85.148**-D**

ENGINEER'S CERTIFICATE I tiereby certify that this plan for Erosion and

rediment Control represents a practical and workable ban based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soll Conserve-

2.19.88