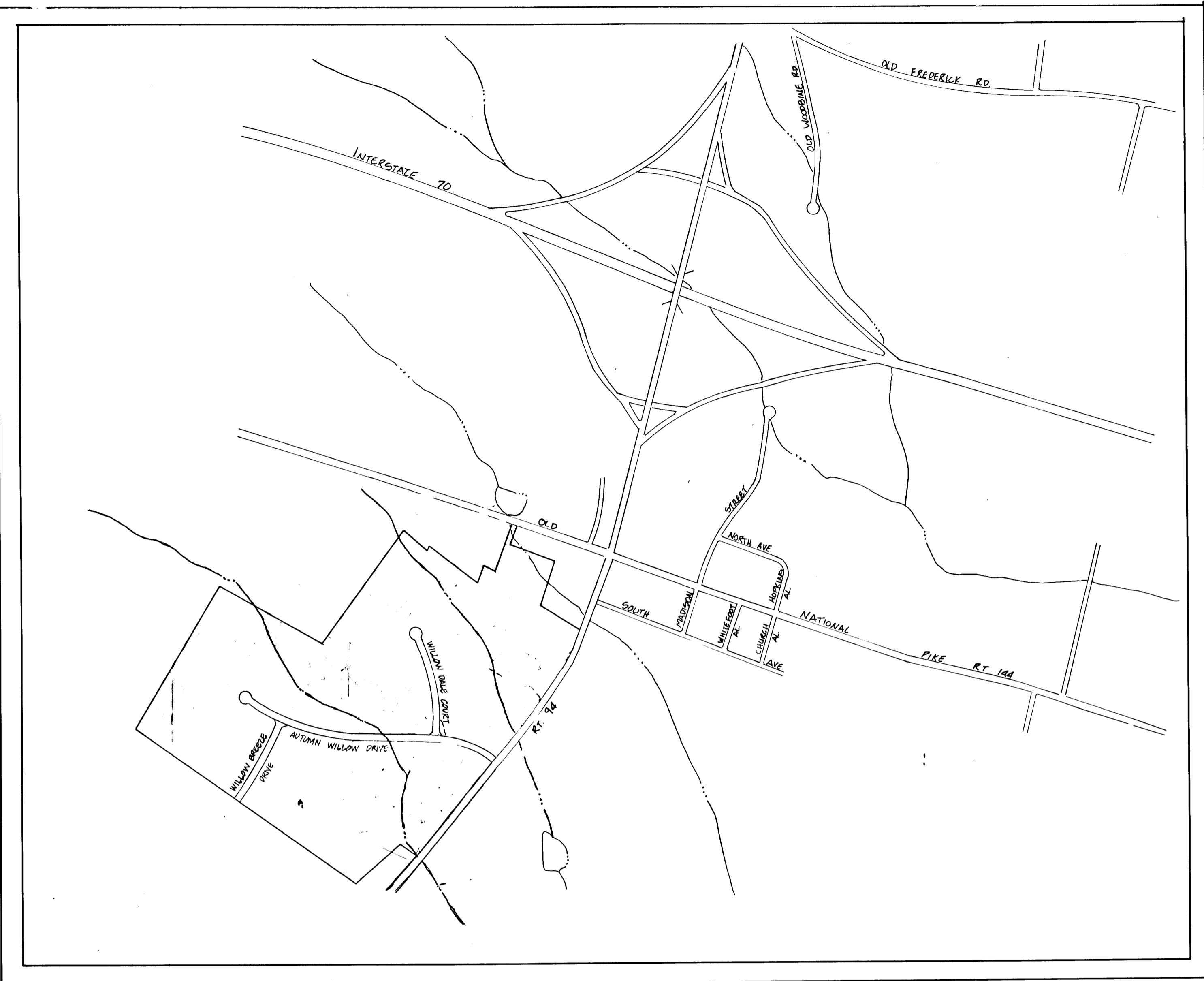
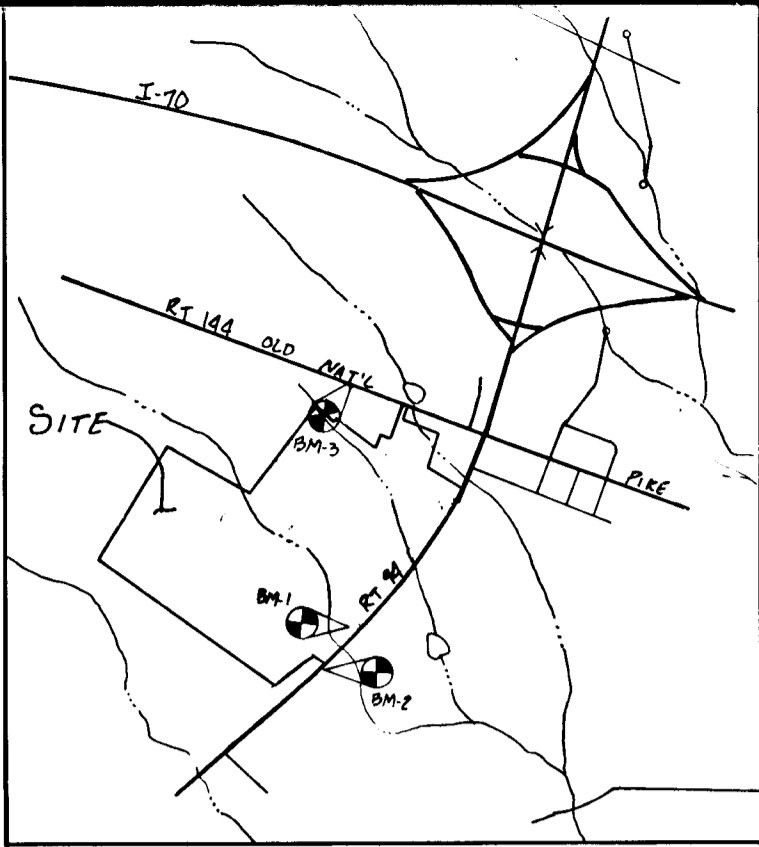


SHTNO	DESCRIPTION
1 OF 13	TITLE SHEET
2 OF 13	PLAN & PROFILE : MD. RT. 94 RD. WIDENING STA. 2+60 TO STA. 11+00
3 OF 13	PLAN & PROFILE : MD. RT. 94 RD. WIDENING STA. 11+00 TO STA. 17+56
4 OF 13	PLAN & PROFILE : AUTUMN WILLOW DRIVE
5 OF 13	PLAN & PROFILE : WILLOW DALE COURT
6 OF 13	PLAN & PROFILE : WILLOW BREEZE DRIVE
7 OF 13	DRAINAGE AREA MAP
8 OF 13	DRAINAGE AREA MAP
9 OF 13	SEDIMENT CONTROL & GRADING PLAN : WILLOW DALE COURT & AUTUMN WILLOW DRIVE
10 OF 13	SEDIMENT CONTROL & GRADING PLAN : WILLOW BREEZE DRIVE & AUTUMN WILLOW DRIVE
11 OF 13	SEDIMENT CONTROL & GRADING PLAN : MARYLAND RT. 94, STA. 0+00 TO STA. 21+50 & AUTUMN WILLOW DRIVE, STA. 0+00 TO STA. 3+31.5
12 OF 13	STORM DRAIN PROFILES
13 OF 13	SEDIMENT CONTROL & ROAD DETAILS



LOCATION MAP



VICINITY MAP
SCALE : 1" = 2000'

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24-HOURS IN ADVANCE OF ANY CONSTRUCTION.
- STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY CODE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 EDITION.

BENCH MARKS

- BM#1 HOWARD CO. MON. # 3730001 EL. 525.476
REINFORCING ROD, 3/4 INCH @ 6" BELOW SURFACE
- BM#2 HOWARD CO. MON. # 3730003 EL. 521.836
REINFORCING ROD, 3/4 INCH @ 5" BELOW SURFACE
- BM#3 HOWARD CO. MON. # 3830002 EL. 613.066
CONCRETE MONUMENT @ 6" BELOW SURFACE

LAGOON REMOVAL NOTES:

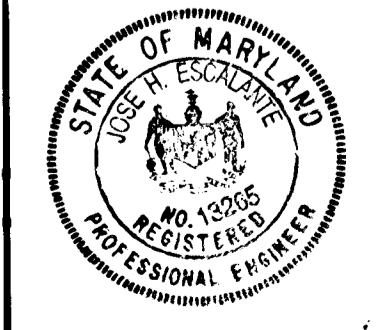
- PUMP LIQUIDS FROM BOTH LAGOONS.
- DISRUPT PIPES BETWEEN BOTH LAGOONS.
- REMOVE ANY SOLIDS FROM THE WESTERN STRUCTURE DOWN TO MINERAL SOIL.
- FILL IN WESTERN-MOST LAGOON USING THE EXISTING EARTH EMBANKMENT.
- SIMULTANEOUSLY EMPTY EASTERN LAGOON OF SLUDGE. SLUDGE SHOULD BE REMOVED DOWN TO MINERAL SOIL. FILL "CAVITY" OF REMAINING LAGOON WITH MATERIAL FROM EXISTING EMBANKMENT. *SLUDGE MUST BE APPLIED AT A RATE OF LESS THAN 10 TONS/ACRE. SLUDGE WILL NOT BE SPREAD WHEN GROUND IS FROZEN, NOR DURING RAINFALLS.
- AREAS SELECTED FOR LIQUID AND SLUDGE DISPOSAL SHOULD HAVE GOOD VEGETATIVE COVER TO MINIMIZE RUNOFF AND TO EXPEDITE THE BREAKDOWN OF THE ORGANIC MATTER FOR INFILTRATION INTO THE SOIL. A BUFFER OF 50' SHOULD BE MAINTAINED FROM ANY SHALE OR WATERWAY.
- ALL AREAS DISTURBED SHALL BE STABILIZED ACCORDING TO THE NOTES ON THE PLAN.

WILLOWDALE ROAD CONSTRUCTION DRAWINGS 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ENGINEER'S CERTIFICATE	
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.	
<i>Joseph J. Lands</i>	9/28/89
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 COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.	
<i>J. J.</i>	9/29/89
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.	
<i>James M. Nelson</i>	10/18/89
THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>John L. Robertson</i>	10/19/89
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Paul P. Ryan</i>	1/12/90
<i>Granville W. Chaceand</i>	1/5/90
<i>Richard S. Riley</i>	1-16-90
APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING	
<i>Marsh S. Campbell</i>	2/20/90

DESIGNED		DATE		REVISIONS
DATE	BY	DATE	DESCRIPTION	
CLD				
DRAWN	CLD			
CHECKED	JHE			
APPROVED				

Dewberry & Davis
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
3300 N. RIDGE ROAD SUITE 100
ELLICOTT CITY, MARYLAND 21043
(301)461-7478



OWNER/DEVELOPER :
COLUMBIA HOMES
10480 LITTLE PATUXENT PARKWAY
SUITE 1250
COLUMBIA, MARYLAND 21044
(301)730-5544

TITLE SHEET
WILLOWDALE
LOTS 1 THRU LOTS 24
TAX MAP 7 PARCEL 83
4TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

1535

F 89179

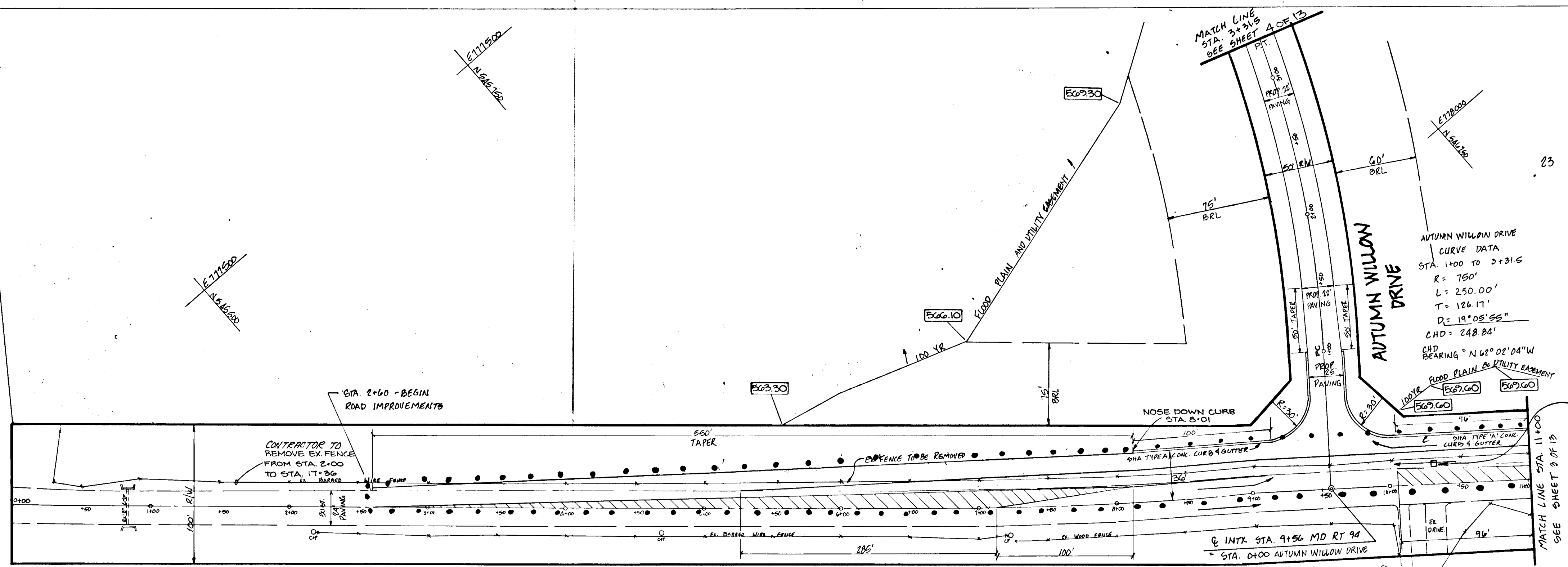
PLAN SURVEYED BY DATE
 NOTED CHECKED
 NOTE BOOK NO. OF WAY CHECKED

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Joseph V. ... 2/22/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul W. ... 1/12/90
 DIVISION

Granville W. Walcott 1/15/90
 DATE

William E. ... 1-16-90
 DATE



WILLOWDALE
 LOTS 1 THRU LOTS 24
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

PLAN & PROFILE
 MD. RT. 94 ROAD WIDENING
 STA. 0+00 TO STA. 11+00
 OWNER / DEVELOPER

COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY SUITE 1250
 COLUMBIA, MARYLAND 21044 (301) 730-5544

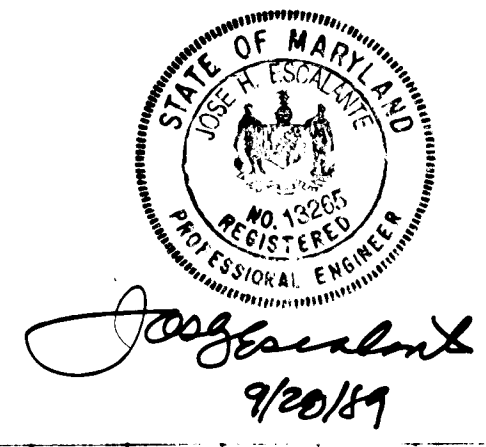
SCALE AS SHOWN DATE SHEET 2 OF 13
 DESIGNED BY JHE/CJD DRAWN BY CJD CHECKED BY JHE

DEWBERRY & DAVIS
 ARCHITECTS - ENGINEERS PLANNERS SURVEYORS
 3300 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND 20433
 (301) 461-7478

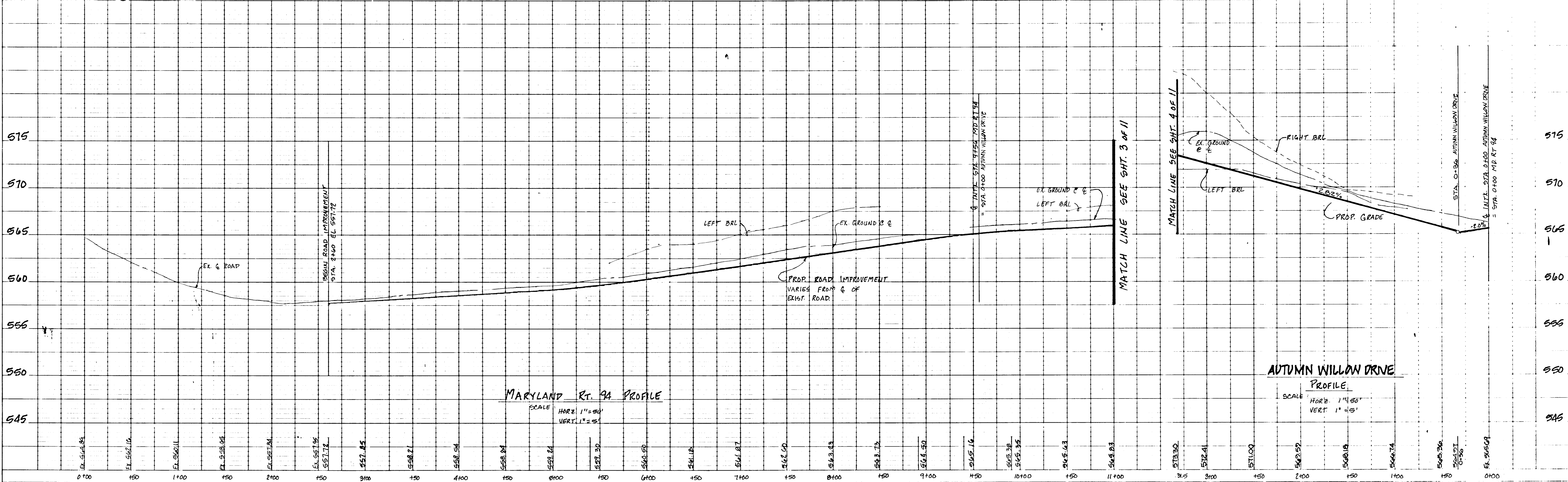
NOTE:
 ALL EXISTING PAVEMENT MARKINGS
 MUST BE ELIMINATED BY DEVELOPER
 AS DIRECTED BY THE S.H.A. INSPECTOR
 OR DISTRICT TRAFFIC ENGINEER.

MARYLAND RT. 94

PLAN
 SCALE: 1"=50'



PROFILE SURVEYED BY DATE
 NOTED CHECKED
 NOTE BOOK NO. OF WAY CHECKED
 STRUCTURE NOTATIONS CHECKED



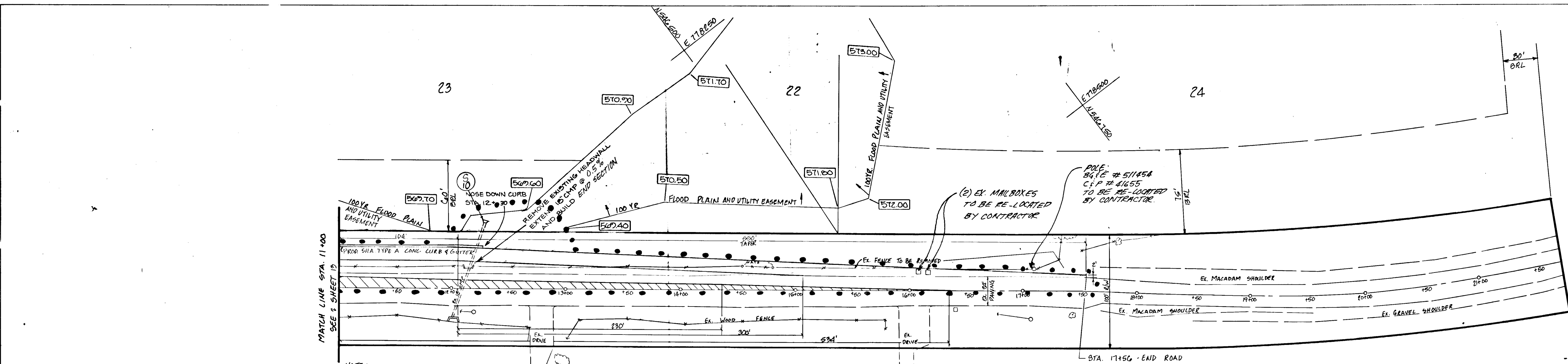
MARYLAND RT. 94 PROFILE
 SCALE: HORIZ. 1"=50' VERT. 1"=5'

AUTUMN WILLOW DRIVE
 PROFILE
 SCALE: HORIZ. 1"=50' VERT. 1"=5'

1535

PLAN
 SUBMITTED BY
 DATE
 CHECKED BY
 DATE
 NO. OF SHEETS
 NO. OF SHEETS

PROFILE
 SUBMITTED BY
 DATE
 CHECKED BY
 DATE
 NO. OF SHEETS
 NO. OF SHEETS



NOTE:
 ALL EXISTING PAVEMENT MARKINGS MUST BE ELIMINATED BY THE DEVELOPER AS DIRECTED BY THE S.H.A. INSPECTOR OR DISTRICT TRAFFIC ENGINEER.

MARYLAND RT. 94

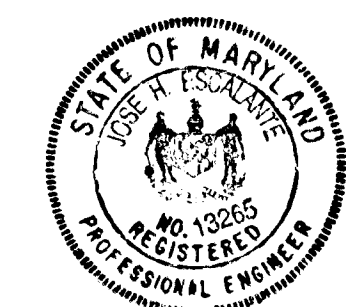
MARYLAND ROUTE 94
 CL CURVE DATA
 STA 17+80.02 TO 21+73.60
 R = 2291.83'
 L = 387.58'
 T = 194.25'
 D = 09° 41' 22"
 CHD = 387.12'
 CHD BEARING = N32° 39' 57" E

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Joseph J. Taylor 2/22/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul H. Pappas 1/12/90
 DIVISION CHIEF

Francis W. Weiland 1/5/90
 DIVISION CHIEF

William E. Ruff 1-16-90
 DIVISION CHIEF



WILLOWDALE
 LOTS 1 THRU LOTS 24
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

PLAN & PROFILE
MD.RT.94 ROAD WIDENING
 STA. 11+00 TO STA. 21+50

OWNER / DEVELOPER
 COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY SUITE 1250
 COLUMBIA, MARYLAND 21044 (301)730-5544

SCALE AS SHOWN DATE SHEET 3 OF 13
 DESIGNED BY JHE/CLD DRAWN BY CLD CHECKED BY JHE

DEWBERRY & DAVIS
 ARCHITECTS - ENGINEERS PLANNERS SURVEYORS
 3300 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND 21043
 (301)461-7478

PLAN
 SCALE: 1"=50'

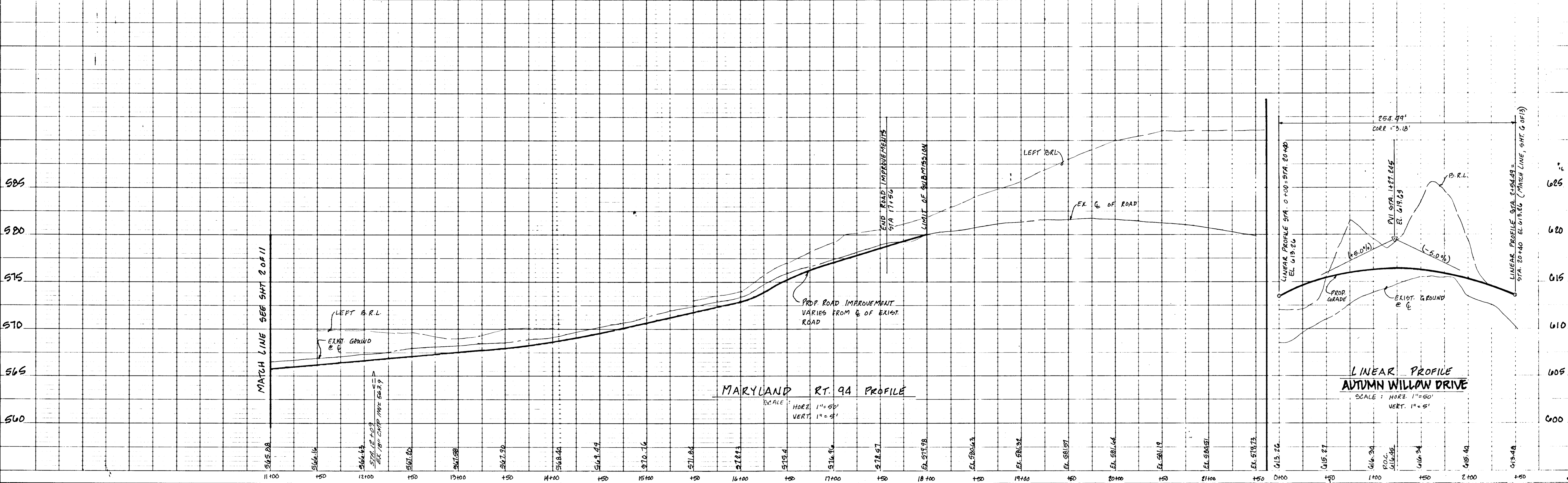


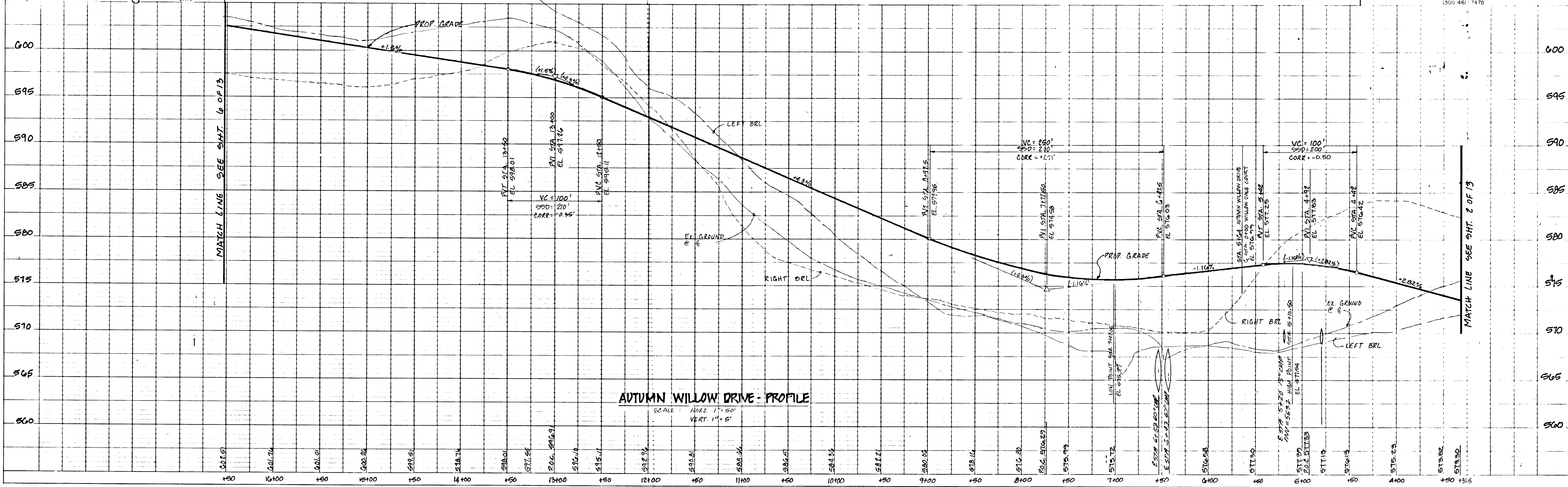
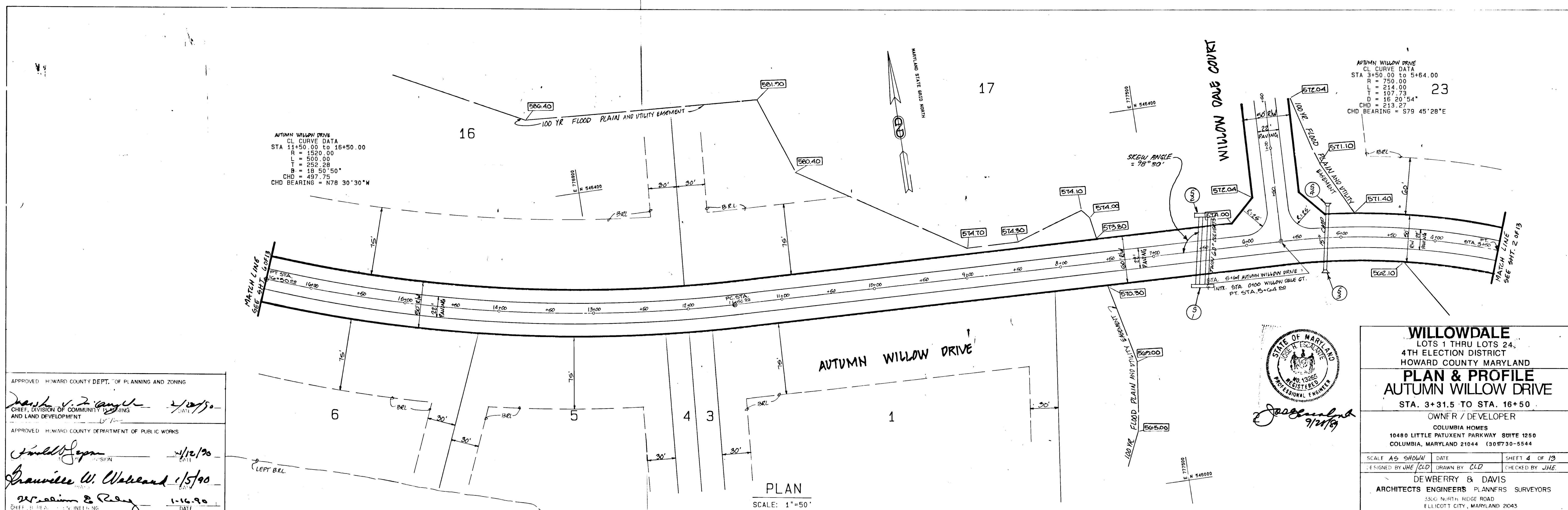
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE
 PRINTED IN U.S.A.

1535

F 89179

PLAN
 SUBMITTED BY: _____
 DATE: _____
 PLOTTED BY: _____
 DATE: _____
 NOTE BOOK NO. _____
 ALIGNMENT CHECKED BY: _____
 DATE: _____
 FIT OF WAY CHECKED BY: _____
 DATE: _____

PROFILE
 SUBMITTED BY: _____
 DATE: _____
 PLOTTED BY: _____
 DATE: _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS CHECKED BY: _____
 DATE: _____



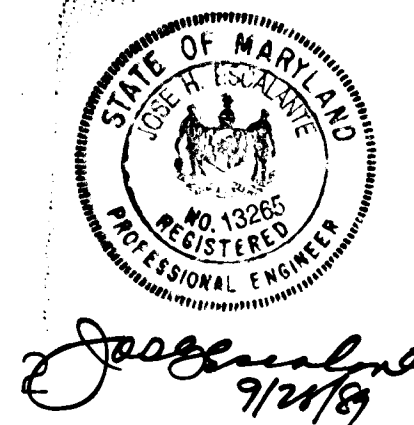
1535

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Mark V. Z. Anglin 2/12/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Donald D. Ryan 4/12/90
 CHIEF, DEPARTMENT OF PUBLIC WORKS

Lawrence W. Wakeford 1/5/90
 CHIEF, DEPARTMENT OF ENGINEERING

William E. Raley 1-16-90
 CHIEF, DEPARTMENT OF ENGINEERING



WILLOWDALE
 LOTS 1 THRU LOTS 24,
 4TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

PLAN & PROFILE
AUTUMN WILLOW DRIVE
 STA. 3+31.5 TO STA. 16+50

OWNER / DEVELOPER
 COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY SUITE 1250
 COLUMBIA, MARYLAND 21044 (301)730-5544

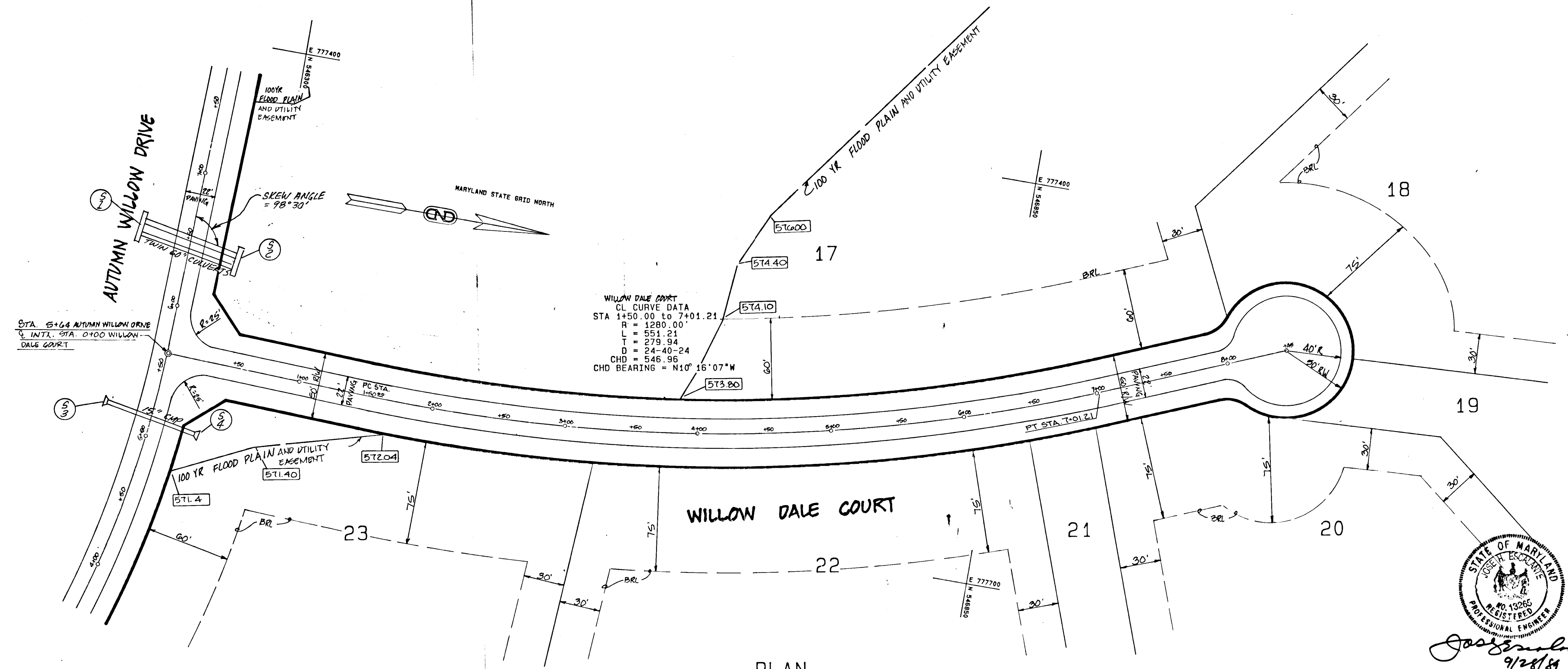
SCALE AS SHOWN DATE SHEET 4 OF 13
 DESIGNED BY JHE/CLD DRAWN BY CLD CHECKED BY JHE

DEWBERRY & DAVIS
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS
 3500 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND 20834
 (301) 461-7478

PLAN SURVEYED BY DATE
 NOTE BOOK PLOTTED BY
 NO. OF WAT. CHECKED BY

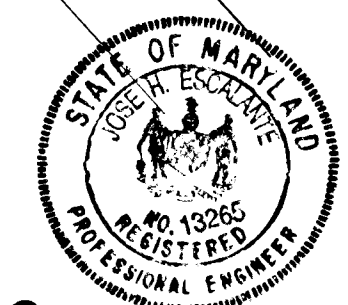
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Frank S. ... 4/29/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul D. ... 1/12/90
Frank W. Cleveland 1/5/90
William R. ... 1-16-90

PROFILE SURVEYED BY DATE
 NOTE BOOK GRADES CHECKED BY
 NO. OF WAT. NOTED BY
 SPECIFIC NOTATIONS CHECKED BY

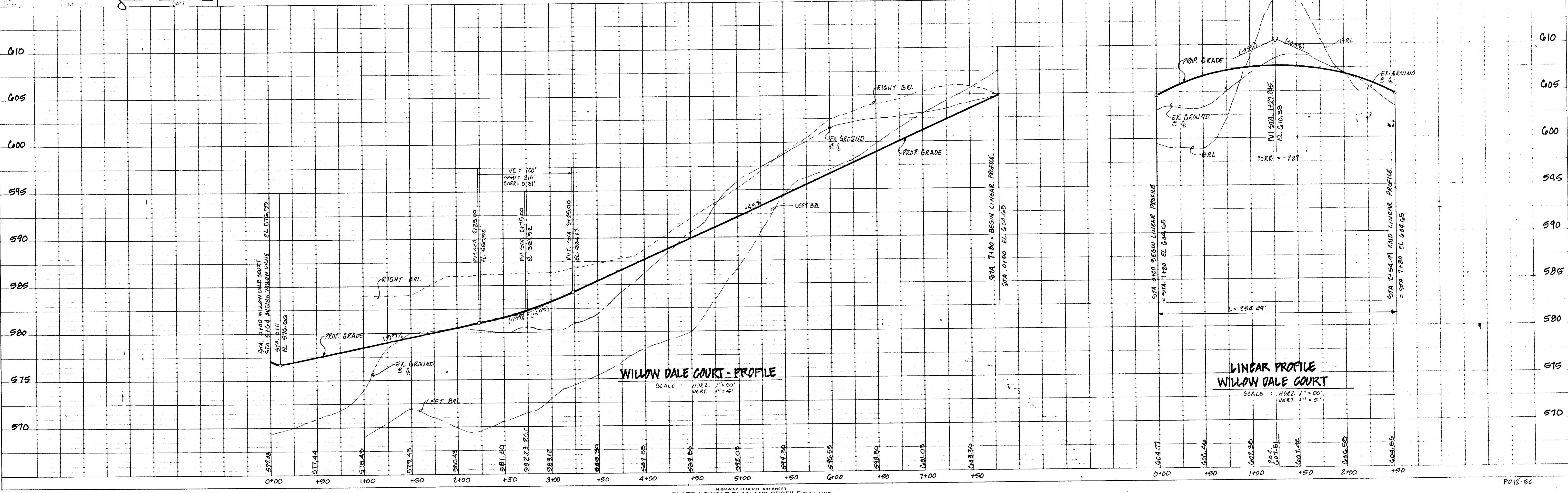


WILLOWDALE
 LOTS 1 THRU LOTS 24
 4TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
PLAN & PROFILE
WILLOW DALE COURT
 STA. 0+00 TO STA. 8+00
 OWNER / DEVELOPER
 COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY SUITE 1250
 COLUMBIA, MARYLAND 21044 (301) 730-5544

SCALE AS SHOWN DATE SHEET 5 OF 19
 DESIGNED BY JHE/CLD DRAWN BY CLD CHECKED BY JHE
 DEWBERRY & DAVIS
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS
 3300 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-7478



PLAN
 SCALE: 1" = 50'



1535

F89179

PLAN SURVIVED NOTED
 NOTE BOOK NO. 64111
 DATE 4/2/90
 BY JHE/CLD
 CHECKED BY JHE/CLD

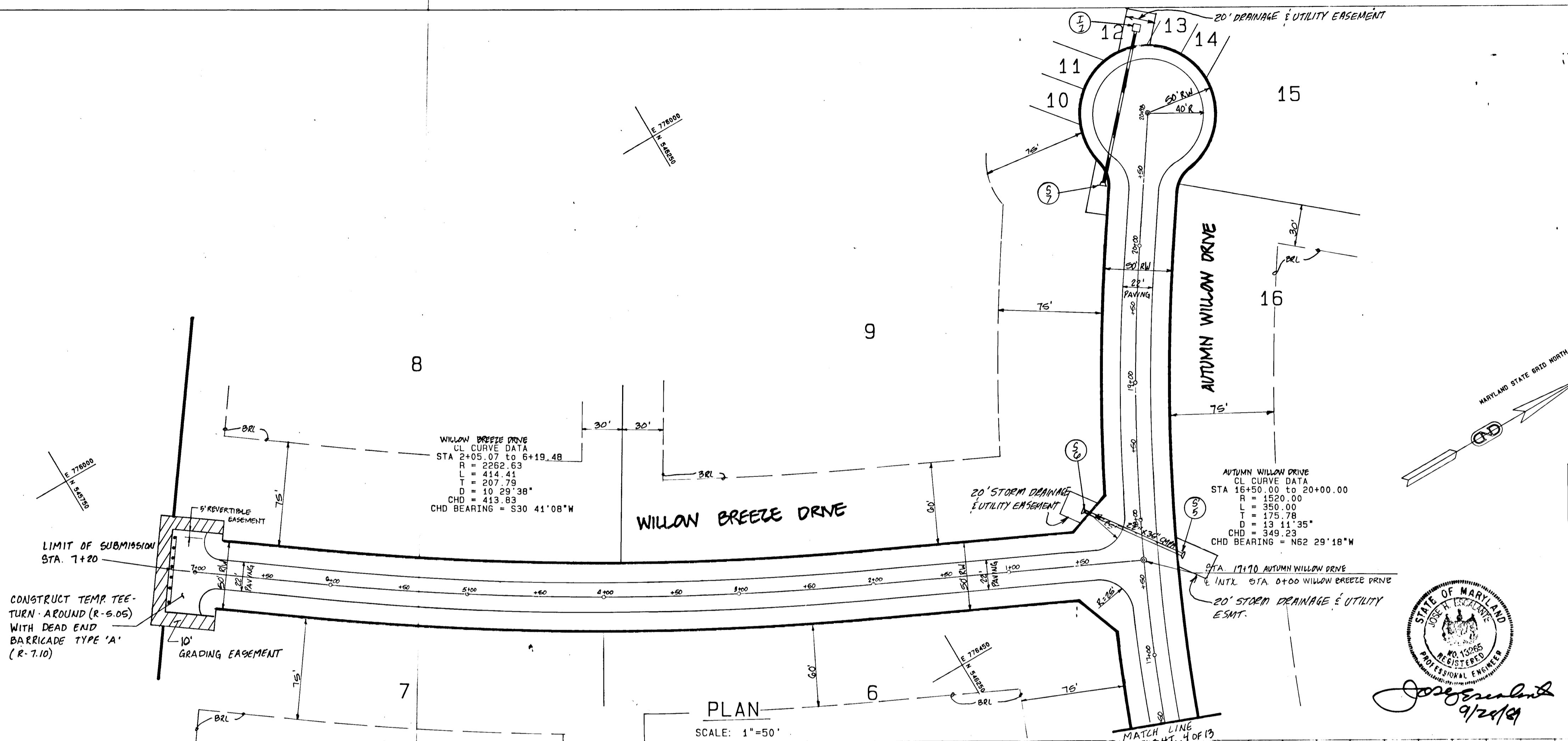
PROFILE SURVIVED NOTED
 NOTE BOOK NO. 64111
 DATE 1/15/90
 BY JHE/CLD
 CHECKED BY JHE/CLD

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
David J. ... 4/2/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Franklin J. ... 1/12/90
 CHIEF, DIVISION OF PUBLIC WORKS

Francis W. ... 1/15/90
 CHIEF, DIVISION OF ...

... 1-16-90
 DATE



WILLOWDALE
 LOTS 1 THRU LOTS 24
 4TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

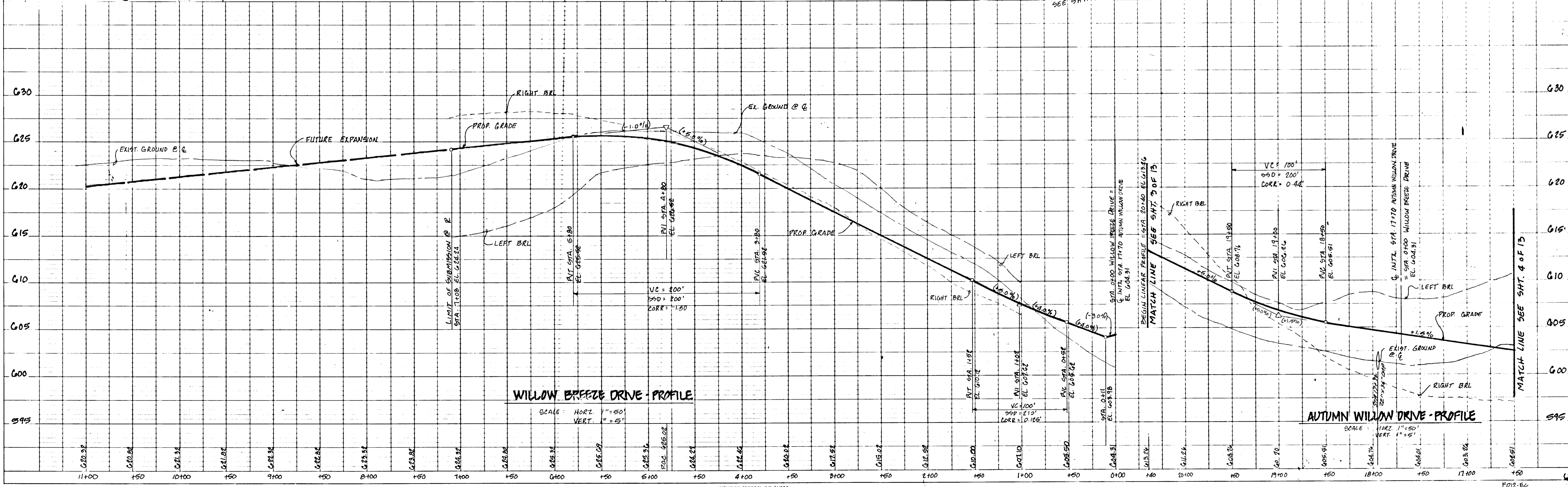
PLAN & PROFILE
WILLOW BREEZE DRIVE
 STA. 0+00 TO STA. 7+08

OWNER / DEVELOPER
 COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY SUITE 1250
 COLUMBIA, MARYLAND 21044 (301)730-5544

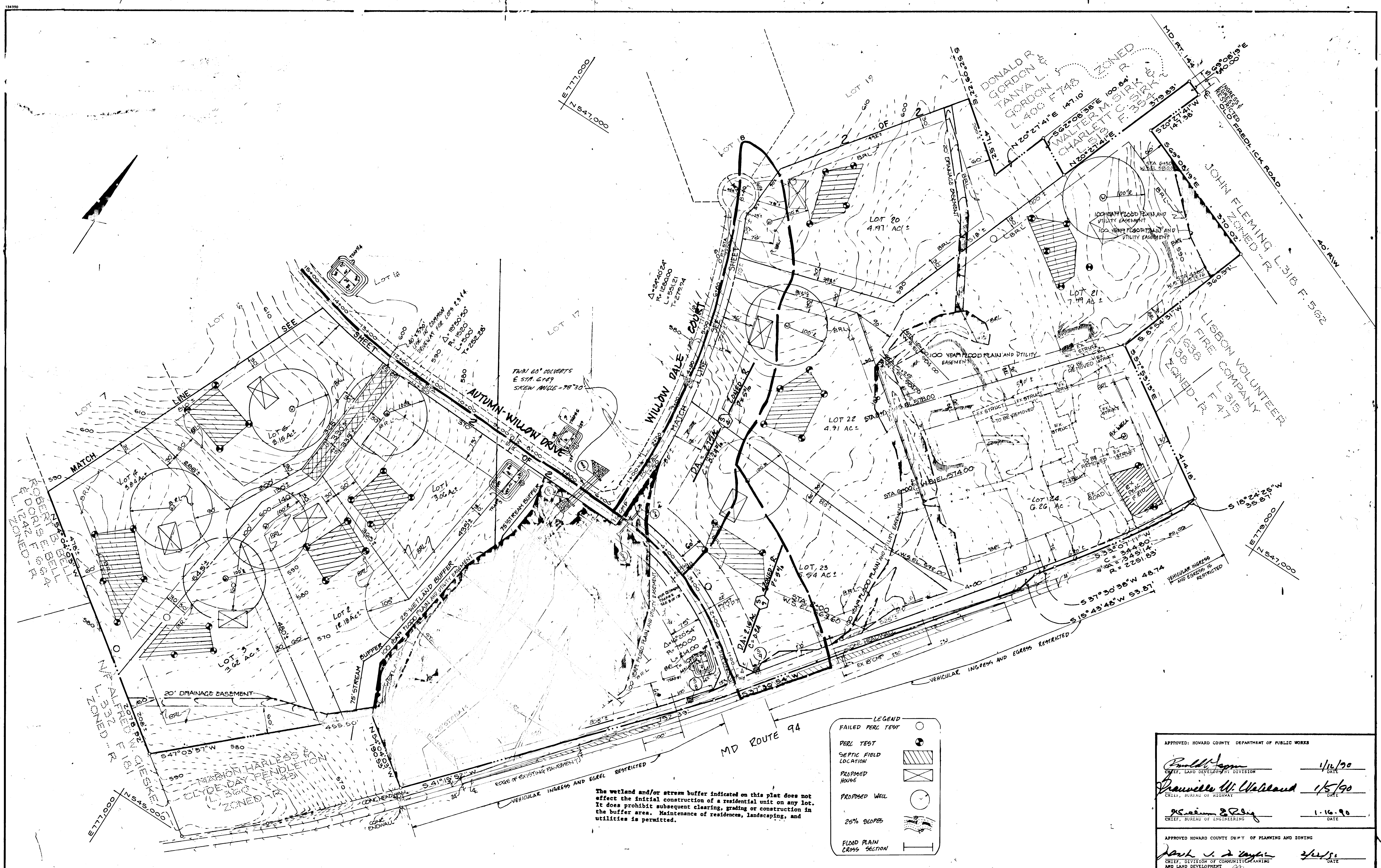
SCALE AS SHOWN DATE SHEET 2 OF 13
 DESIGNED BY JHE/CLD DRAWN BY CLD CHECKED BY JHE/CLD

DEWFERRY & DAVIS
 ARCHITECTS ENGINEERS PLANNERS SURVEYORS
 3300 NORTH RIDGE ROAD
 FELLICOTT CITY, MARYLAND 2043
 (301) 461-7478

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 JOSEPH ...
 9/22/91



1535



The wetland and/or stream buffer indicated on this plat does not effect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping, and utilities is permitted.

LEGEND

- FAILED PERC TEST
- PERC TEST
- ▨ SEPTIC FIELD LOCATION
- ▭ PROPOSED HOUSE
- PROPOSED WELL
- ▨ 25% SLOPES
- ▭ FLOOD PLAIN CROSS SECTION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Paul D. Hagan 1/16/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Lawrence W. Chelmond 1/5/90
 CHIEF, BUREAU OF HIGHWAY DATE

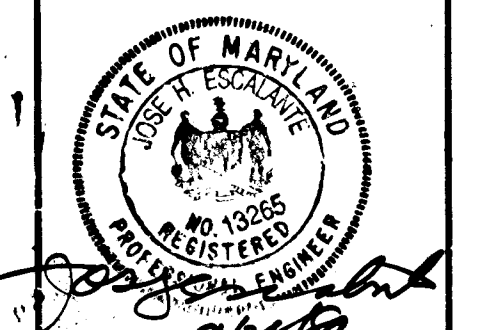
William R. Bell 1-16-90
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Paul J. J. Taylor 3/21/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

DESIGNED		DATE		REVISIONS	
DATE	BY	DATE	BY	DESCRIPTION	
10-22-87	W.D.G.				

Dewberry & Davis
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD, SUITE 100
 ELLICOTT CITY, MD. 21043
 (301) 461-7478



OWNER - DEVELOPER
COLUMBIA HOMES INC.
 10480 LITTLE PATUXENT PKWY. SUITE 1250
 COLUMBIA, MD. 21044
 (301) - 730-5544

DRAINAGE AREA MAP WILLOWDALE
 LOTS 1 THROUGH 24
 TAX MAP 7 - PARCEL 83
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

1536

STANLEY MILLER PROPERTY
PLAT 3721 ZONED-R

STANLEY MILLER PROPERTY
PLAT 3721 ZONED-R

JEFFERSON
DAVIS HOBBS II,
YVONNE MARE HOBBS
L-633 F-30
ZONED-R
N 20° 31' 05" E 41.55'
LEE B. SNOW
L-720 F-76
ZONED-R

DONALD R.
GORDON &
TANYA L.
GORDON
L-400 F-748
ZONED-R

ROBERT B. BELL & DORIS E. BELL
L-1242 F-664
ZONED-R

The wetland and/or stream buffer indicated on this plat does not effect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping, and utilities is permitted.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul H. Hagan 1/12/90
CHIEF, LAND DEVELOPMENT DIVISION
DATE
Lawrence W. Cleveland 1/5/90
CHIEF, BUREAU OF HIGHWAY
DATE
William E. Rine 1-16-90
CHIEF, BUREAU OF ENGINEERING
DATE
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Paul W. Cramer 2/22/90
CHIEF, DIVISION OF COMMUNITY PLANNING
AND LAND DEVELOPMENT
DATE

DESIGNED		DATE		BY		REVISIONS	
date						DESCRIPTION	
10-22-87	W.D.C.						

Dewberry & Davis
ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
3300 N. RIDGE ROAD, SUITE 100
ELLCOTT CITY, MD. 21043
(301) 461-7478



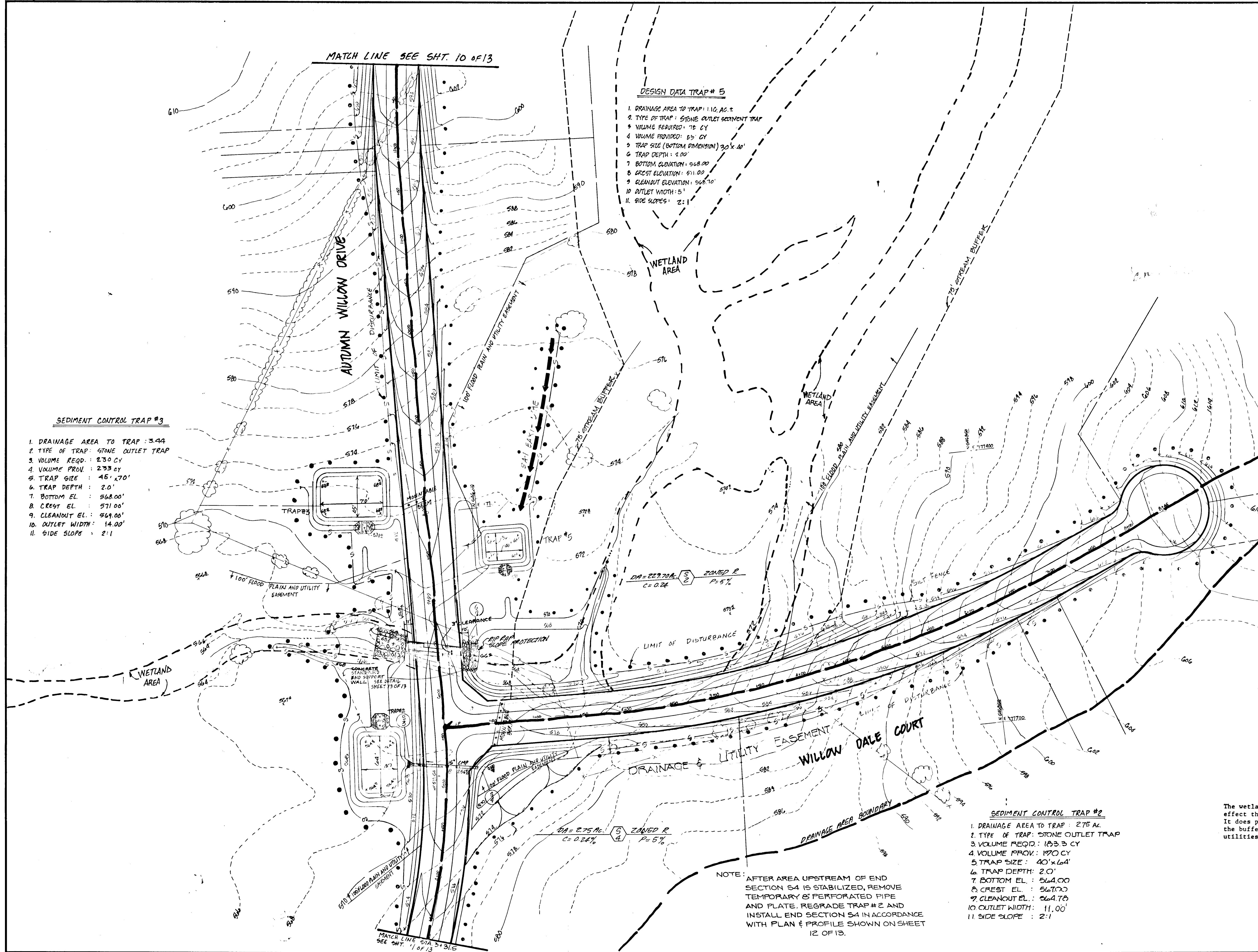
OWNER - DEVELOPER
COLUMBIA HOMES INC.
10480 LITTLE PATUXENT PKWY. SUITE 1250
COLUMBIA, MD. 21044
(301) - 730-5544

DRAINAGE AREA MAP
WILLOWDALE
LOTS 1 THROUGH 24
TAX MAP 7 PARCEL 83
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 100'
CONTRACT NO. FILE NO. P-88-60 SHEET 8 OF 13
F 89179

1535

1535



DESIGN DATA TRAP # 5

1. DRAINAGE AREA TO TRAP: 110 AC.±
2. TYPE OF TRAP: STONE OUTLET SEDIMENT TRAP
3. VOLUME REQ'D: 75 CY
4. VOLUME PROV: 85 CY
5. TRAP SIZE (BOTTOM DIMENSION) 30' x 40'
6. TRAP DEPTH: 2.00'
7. BOTTOM ELEVATION: 568.00
8. CREST ELEVATION: 571.00
9. CLEANOUT ELEVATION: 568.10'
10. OUTLET WIDTH: 5'
11. SIDE SLOPES: 2:1

SEDIMENT CONTROL TRAP #3

1. DRAINAGE AREA TO TRAP: 3.44
2. TYPE OF TRAP: STONE OUTLET TRAP
3. VOLUME REQ'D: 230 CY
4. VOLUME PROV: 233 CY
5. TRAP SIZE: 45' x 70'
6. TRAP DEPTH: 2.0'
7. BOTTOM EL.: 568.00'
8. CREST EL.: 571.00'
9. CLEANOUT EL.: 569.00'
10. OUTLET WIDTH: 14.00'
11. SIDE SLOPE: 2:1

SEDIMENT CONTROL TRAP #2

1. DRAINAGE AREA TO TRAP: 275 AC.
2. TYPE OF TRAP: STONE OUTLET TRAP
3. VOLUME REQ'D: 183.3 CY
4. VOLUME PROV: 190 CY
5. TRAP SIZE: 40' x 60'
6. TRAP DEPTH: 2.0'
7. BOTTOM EL.: 564.00
8. CREST EL.: 567.00
9. CLEANOUT EL.: 564.75
10. OUTLET WIDTH: 11.00'
11. SIDE SLOPE: 2:1

NOTE: AFTER AREA UPSTREAM OF END SECTION S4 IS STABILIZED, REMOVE TEMPORARY 6" PERFORATED PIPE AND PLATE. REGRADE TRAP # 2 AND INSTALL END SECTION S4 IN ACCORDANCE WITH PLAN & PROFILE SHOWN ON SHEET 12 OF 13.

ENGINEER'S CERTIFICATE

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.

Jos Escalante 9/20/89 DATE

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 ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

JG 9/22/89 DATE

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

Jane M. Nelson 10/10/89 DATE
U.S. SOIL CONSERVATION DISTRICT

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

John R. Stanton 10/10/89 DATE
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Paul D. Soren 1/12/90 DATE
CHIEF, LAND DEVELOPMENT DIVISION

Stanley W. Welwood 1/5/90 DATE
CHIEF, BUREAU OF HIGHWAY

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

Frank J. Dwyer 2/22/90 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

The wetland and/or stream buffer indicated on this plat does not effect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping, and utilities is permitted.

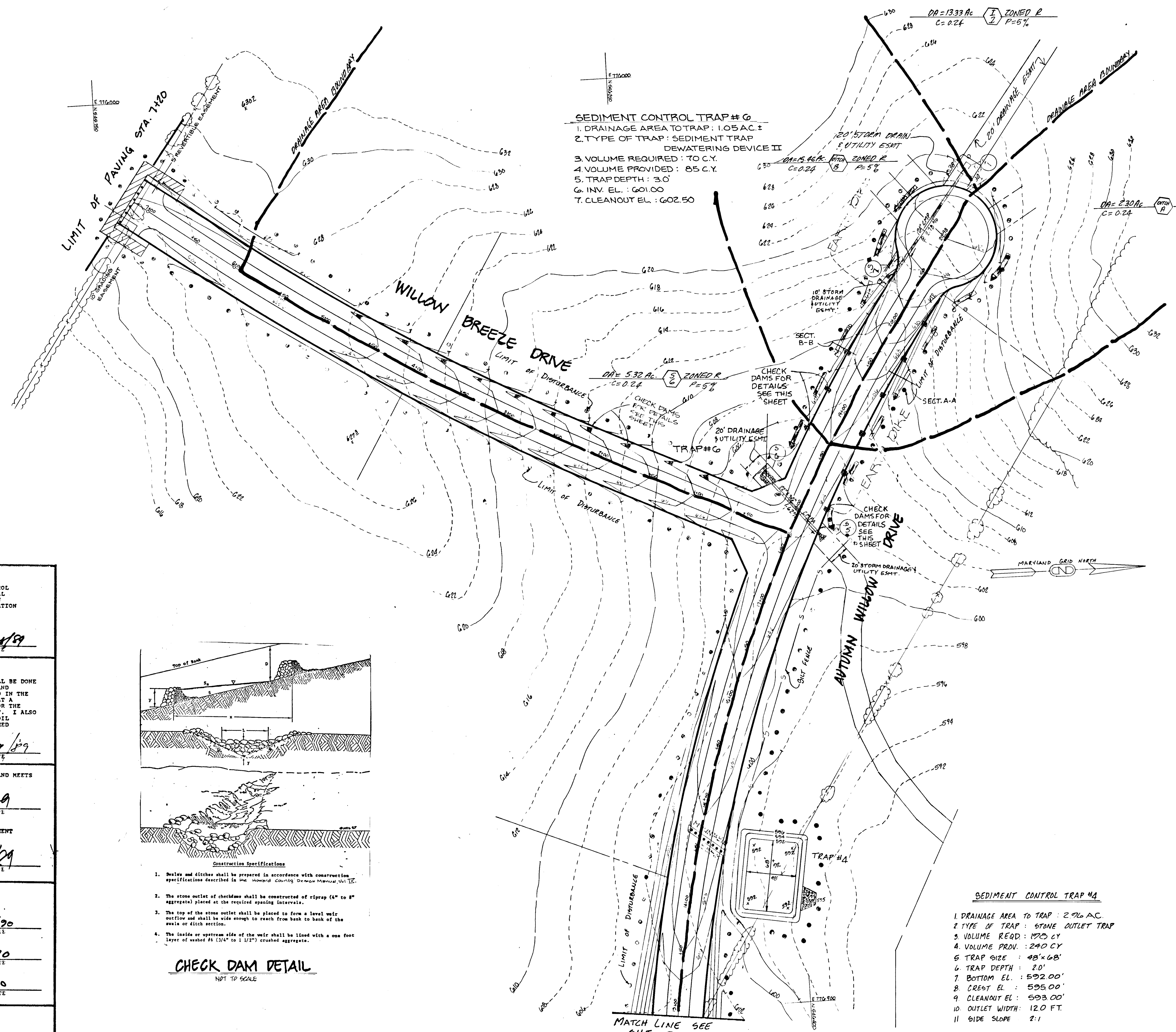
DESIGNED	DATE	REVISIONS	
		DATE	DESCRIPTION
H. SHIEN C. DELZOPPO			
DRAWN			
CHECKED			
APPROVED			

Dewberry & Davis
ARCHITECTS ENGINEERS - PLANNERS - SURVEYORS
3300 N. RIDGE ROAD SUITE 100
ELLCOTT CITY, MARYLAND 21043
(301) 461-7478



OWNER/DEVELOPER:
COLUMBIA HOMES
10480 LITTLE PATUXENT PARKWAY
SUITE 1250
COLUMBIA, MARYLAND 21044
(301) 730-5544

SEDIMENT CONTROL & GRADING PLAN
WILLOWDALE
LOTS 1 THRU LOTS 24
TAX MAP 7, PARCEL 83
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



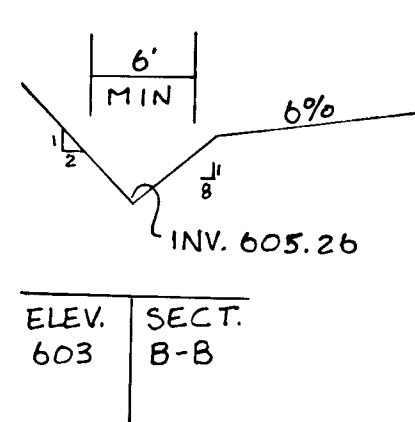
SEDIMENT CONTROL TRAP # G
 1. DRAINAGE AREA TO TRAP: 1.05 AC.
 2. TYPE OF TRAP: SEDIMENT TRAP
 DEWATERING DEVICE II
 3. VOLUME REQUIRED: TO C.Y.
 4. VOLUME PROVIDED: 85 C.Y.
 5. TRAP DEPTH: 3.0'
 6. INV. EL.: 601.00
 7. CLEANOUT EL.: 602.50

CURVE No. 1
 $\Delta = 50^\circ 26' 20''$
 $R = 50.00'$
 $L = 44.02'$
 $T = 23.54'$
 $CH = 42.61'$

CURVE No. 2
 $\Delta = 67^\circ 21' 18''$
 $R = 190.00'$
 $L = 223.36'$
 $CH = 210.72'$

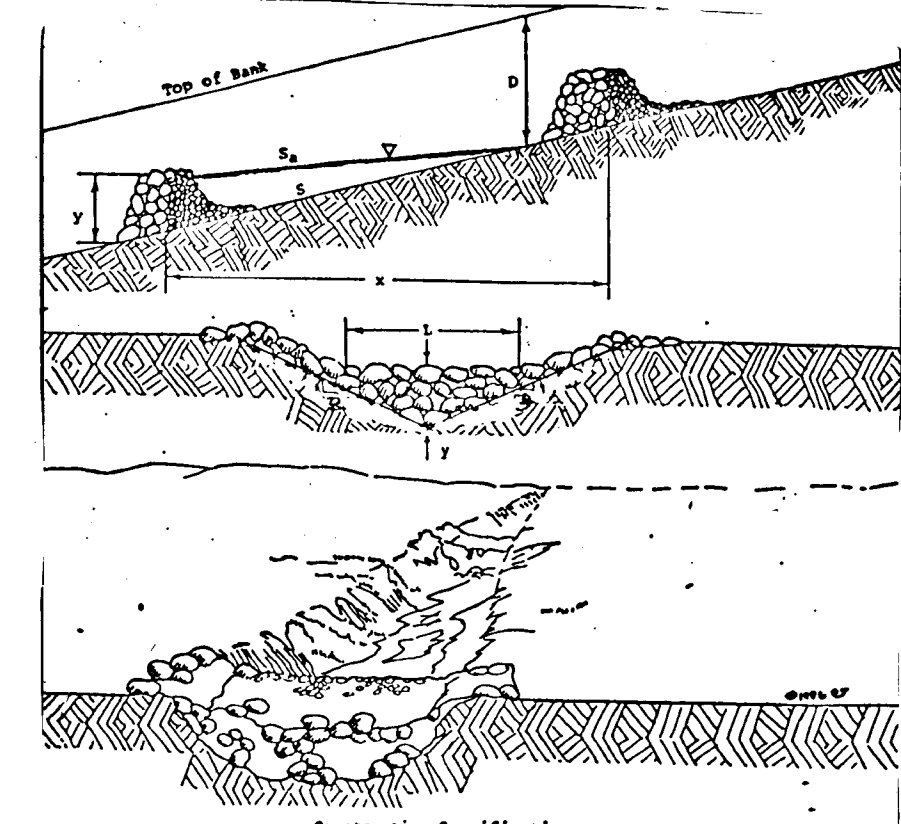
$Q_2 = 2.51 \text{ CFS}$
 $Q_0 = 3.69 \text{ CFS}$
 $D_0 = 0.59'$
 $V_0 = 2.88 \text{ FPS}$
 $V_0 = 3.24 \text{ FPS}$

$Q_2 = 12.24 \text{ CFS}$
 $Q_0 = 18.00 \text{ CFS}$
 $d_0 = 1.10'$
 $d_0 = 1.22'$
 $V_0 = 4.05 \text{ FPS}$
 $V_0 = 4.84 \text{ FPS}$



SCALE
 VERT. 1" = 5'
 HORZ. 1" = 10'

SEDIMENT CONTROL TRAP # A
 1. DRAINAGE AREA TO TRAP: 2.96 AC.
 2. TYPE OF TRAP: STONE OUTLET TRAP
 3. VOLUME REQD: 1970 CY
 4. VOLUME PRDN: 240 CY
 5. TRAP SIZE: 48' x 68'
 6. TRAP DEPTH: 2.0'
 7. BOTTOM EL.: 592.00'
 8. CREST EL.: 595.00'
 9. CLEANOUT EL.: 593.00'
 10. OUTLET WIDTH: 12.0 FT.
 11. SIDE SLOPE: 2:1



- Construction Specifications**
- Swales and ditches shall be prepared in accordance with construction specifications described in the Howard County Design Manual, Vol. 12.
 - The stone outlet of checkdams shall be constructed of riprap (4" to 8" aggregate) placed at the required spacing intervals.
 - The top of the stone outlet shall be placed to form a level weir outlet and shall be wide enough to reach from bank to bank of the swale or ditch section.
 - The inside or upstream side of the weir shall be lined with a one foot layer of washed #6 (1/4" to 1/2") crushed aggregate.
- CHECK DAM DETAIL**
 NOT TO SCALE

ENGINEER'S CERTIFICATE
 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.
J. Escalante 9/24/89 DATE

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 ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
J. Escalante 9/29/89 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Nelson 10/10/89 DATE
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Blanton 10/10/89 DATE
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul J. Ryan 1/12/90 DATE
 CHIEF, LAND DEVELOPMENT DIVISION

Francis W. Welland 1/5/90 DATE
 CHIEF, BUREAU OF HIGHWAY

Richard B. Reay 1-16-90 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING
Paul V. Zampieri 2/22/90 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DESIGNED	J. ESCALANTE 2/28/89	REVISIONS	
		DATE	DESCRIPTION
DRAWN	C. DELLOPPO		
CHECKED	J. ESCALANTE		
APPROVED			

Dewberry & Davis
 ENGINEERS — ARCHITECTS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD SUITE 100
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-7478

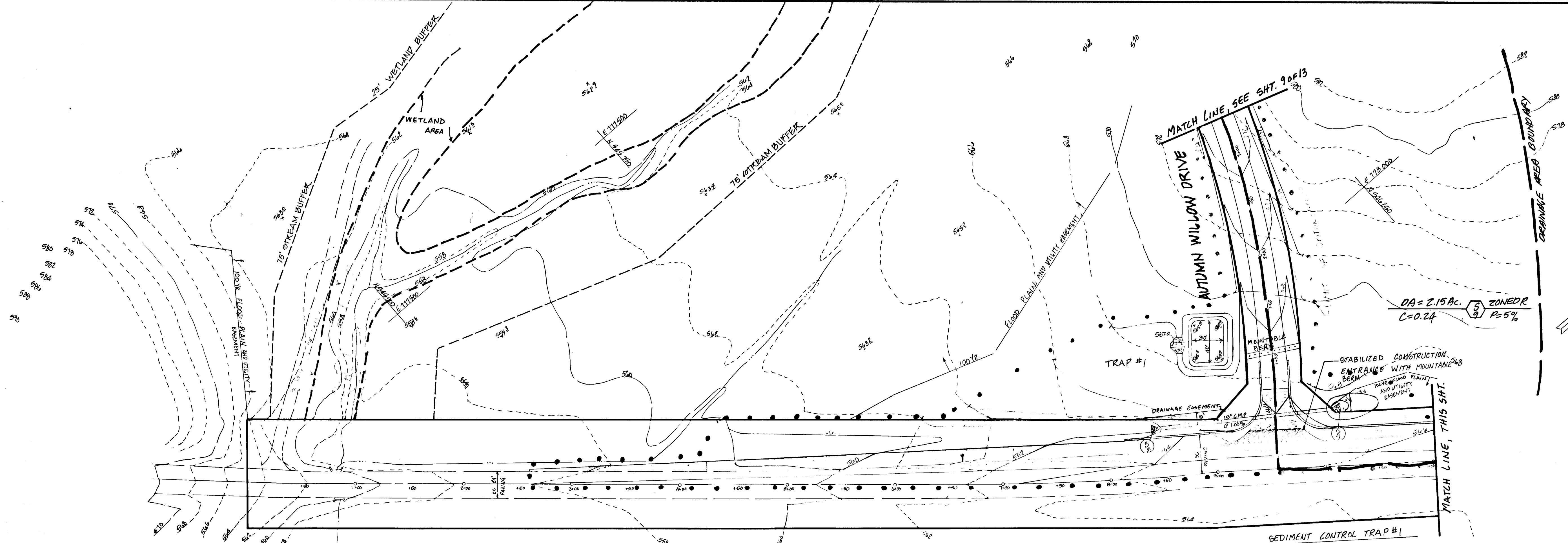


OWNER/DEVELOPER:
 COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY
 SUITE 1250
 COLUMBIA, MARYLAND 21044
 (301) 730-5544

SEDIMENT CONTROL & GRADING PLAN
WILLOWDALE
 LOTS 1 THRU LOTS 24
 TAX MAP 7 PARCEL 83
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'
 CONTRACT NO.
 FILE NO. F012-84
 SHEET 10 OF 13

1535



The wetland and/or stream buffer indicated on this plat does not effect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping, and utilities is permitted.

MARYLAND RT. 94

- SEDIMENT CONTROL TRAP #1
1. DRAINAGE AREA TO TRAP = 0.56 AC.
 2. TYPE OF TRAP : STONE OUTLET TRAP
 3. VOLUME REQD : 88 CY
 4. VOLUME PROD : 89 CY
 5. TRAP SIZE : 30' x 40'
 6. TRAP DEPTH : 2.0'
 7. BOTTOM EL : 505.00
 8. CREST EL : 507.00
 9. CLEANOUT EL : 506.34
 10. OUTLET WIDTH : 3.0'
 11. SIDE SLOPE : 2:1

ENGINEER'S CERTIFICATE
 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] 9/28/89
 DATE

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 ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
[Signature] 9/29/89
 DATE

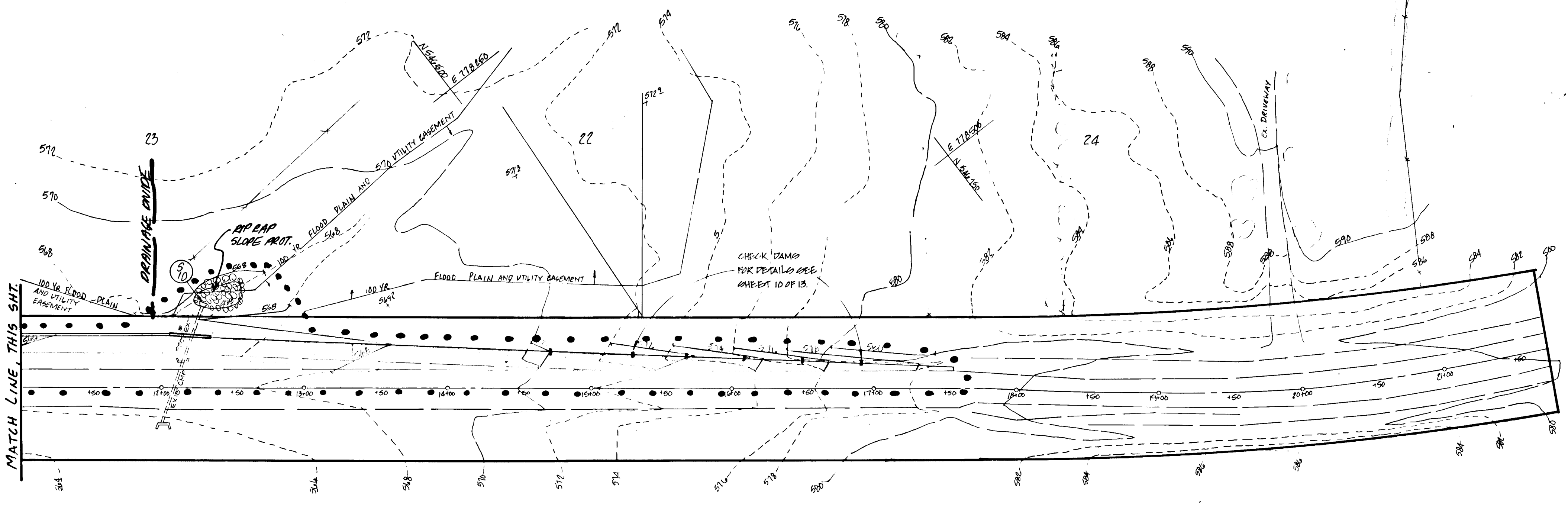
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Helm 10/10/89
 U.S. SOIL CONSERVATION SERVICE
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John L. Robinson 10/10/89
 HOWARD SOIL CONSERVATION DISTRICT
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Paul W. O'Connell 1/12/90
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE

Francis W. W. W. W. 1/5/90
 CHIEF, BUREAU OF ENGINEERING
 DATE

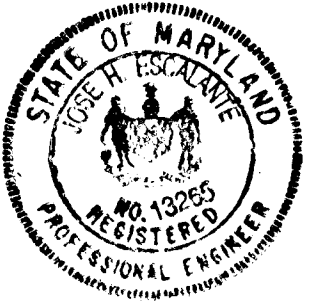
APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING
David S. Taylor 2/22/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE



MARYLAND RT. 94

DESIGNED	DATE	REVISIONS		DESCRIPTION
		DATE	BY	
H. SHIER	date			
C. DELAPPO	date			
J. FOSCALANTE	date			
	date			

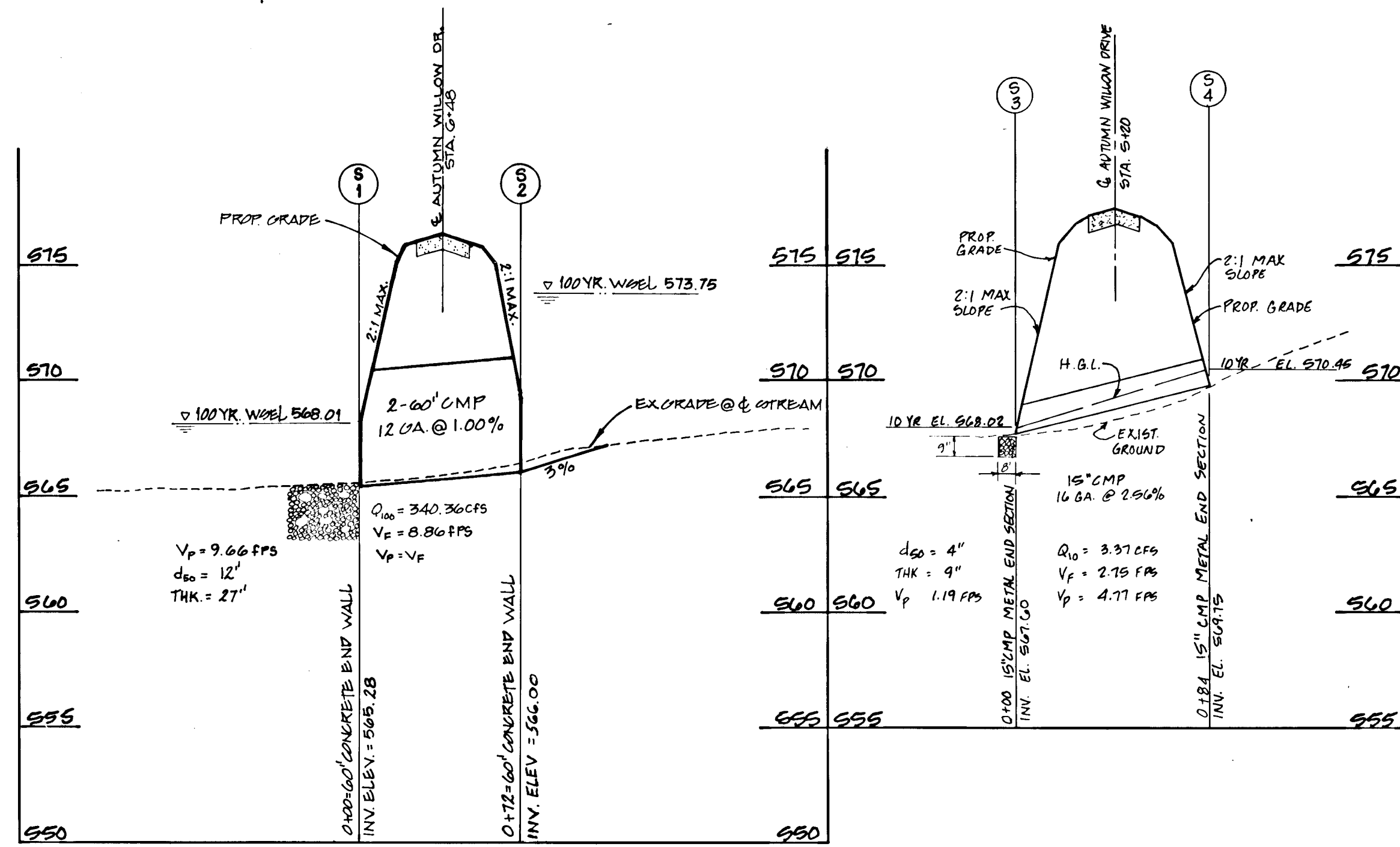
Dewberry & Davis
 ARCHITECTS — ENGINEERS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD, SUITE 100
 ELLICOTT CITY, MD. 21043
 (301) 461-7478



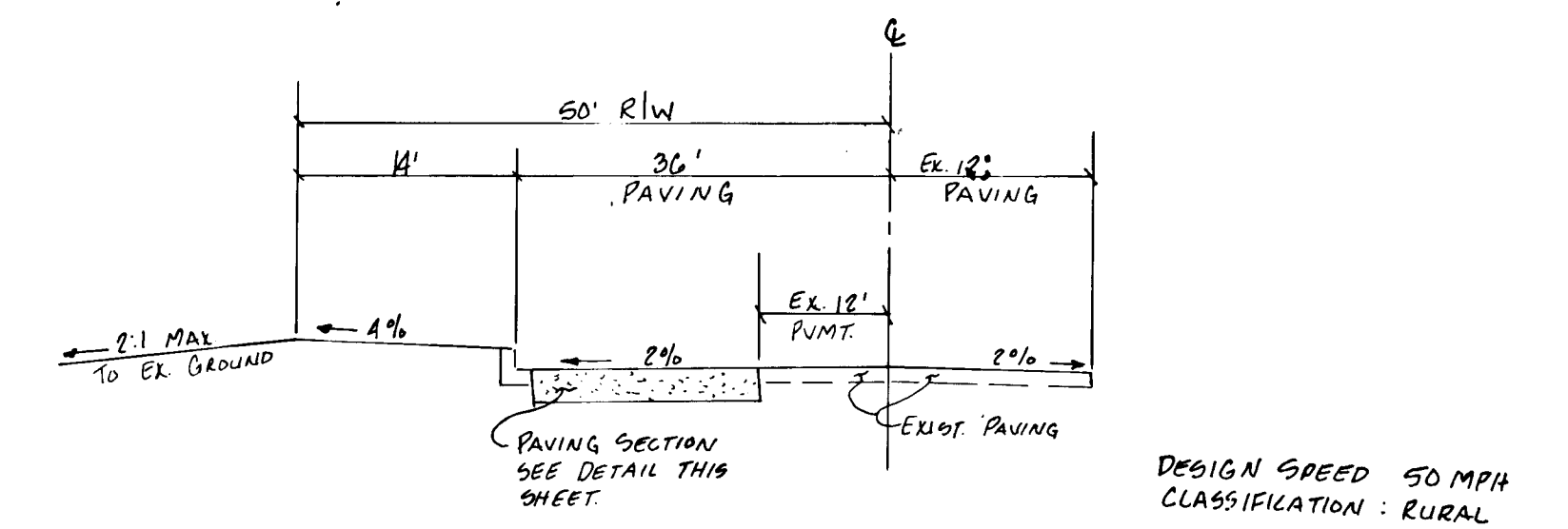
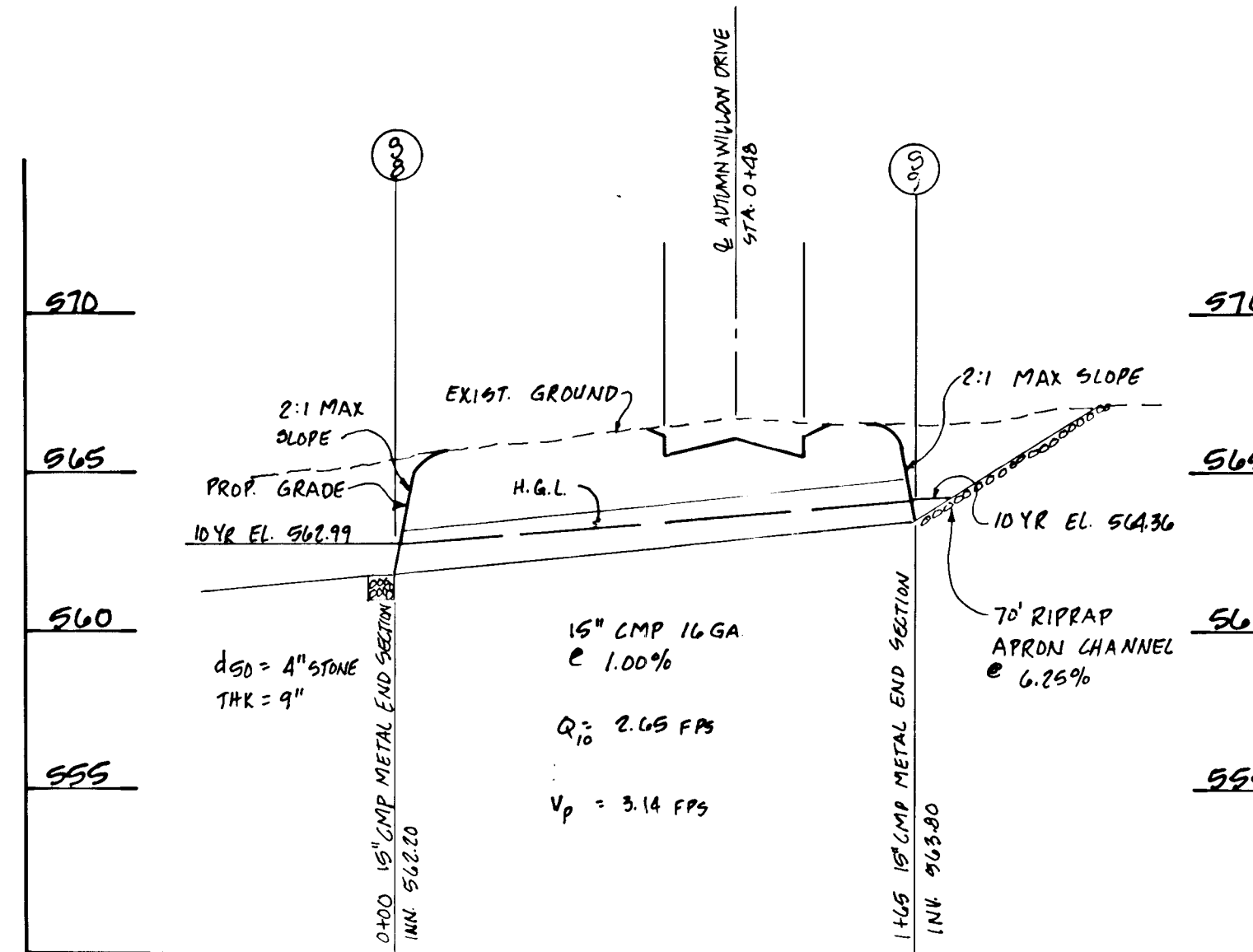
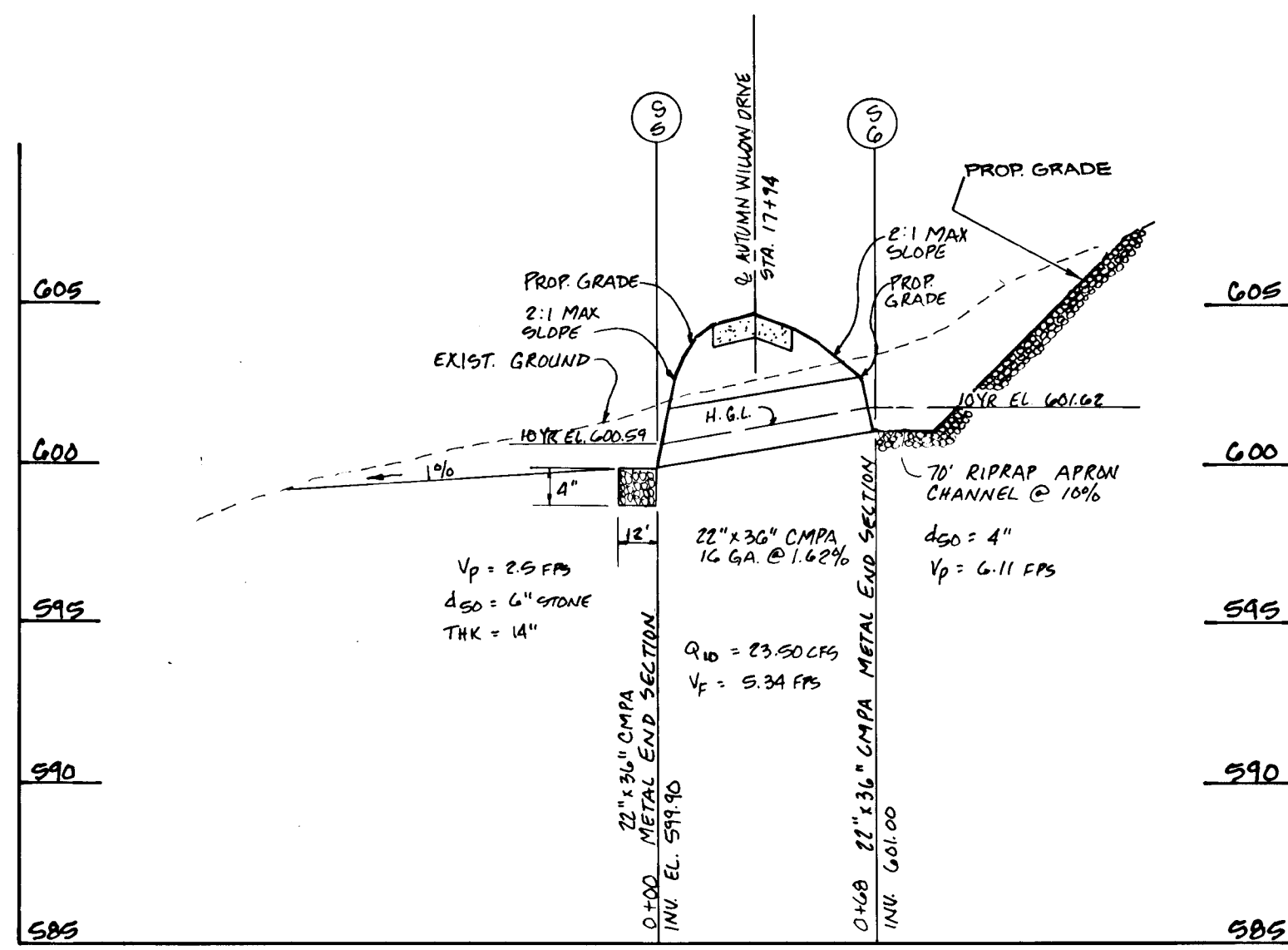
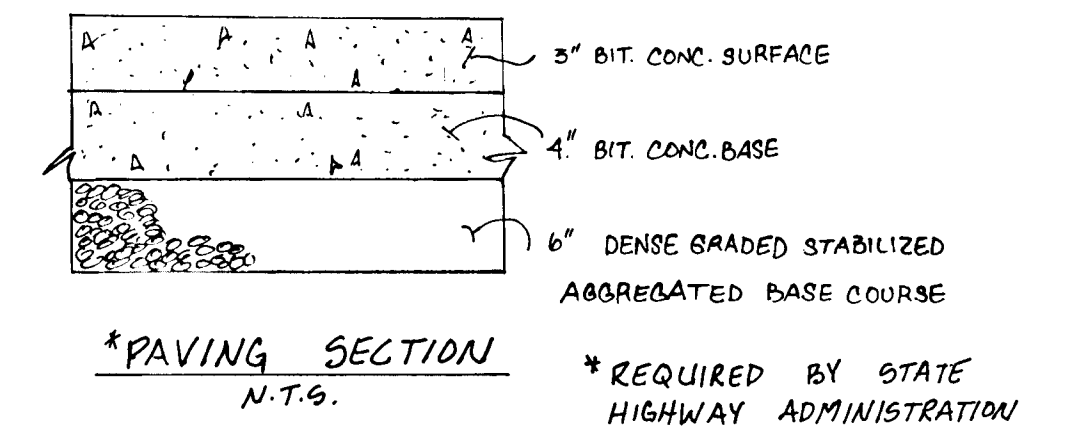
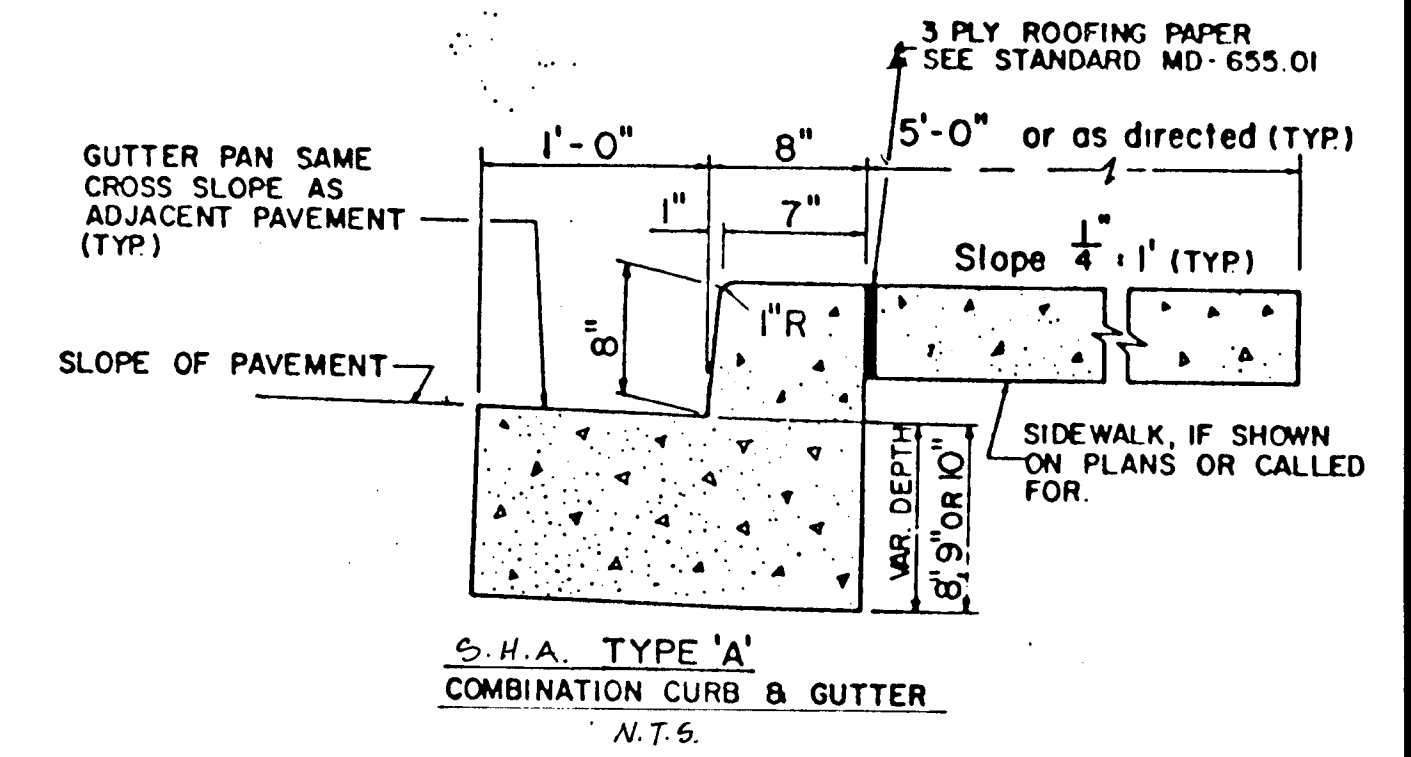
OWNER/DEVELOPER:
COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY
 SUITE 1250
 COLUMBIA, MARYLAND 21044
 (301) 730-5544

SEDIMENT CONTROL & GRADING PLAN
WILLOWDALE
 LOTS 1 THRU LOTS 24
 TAX MAP 7 PARCEL 83
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

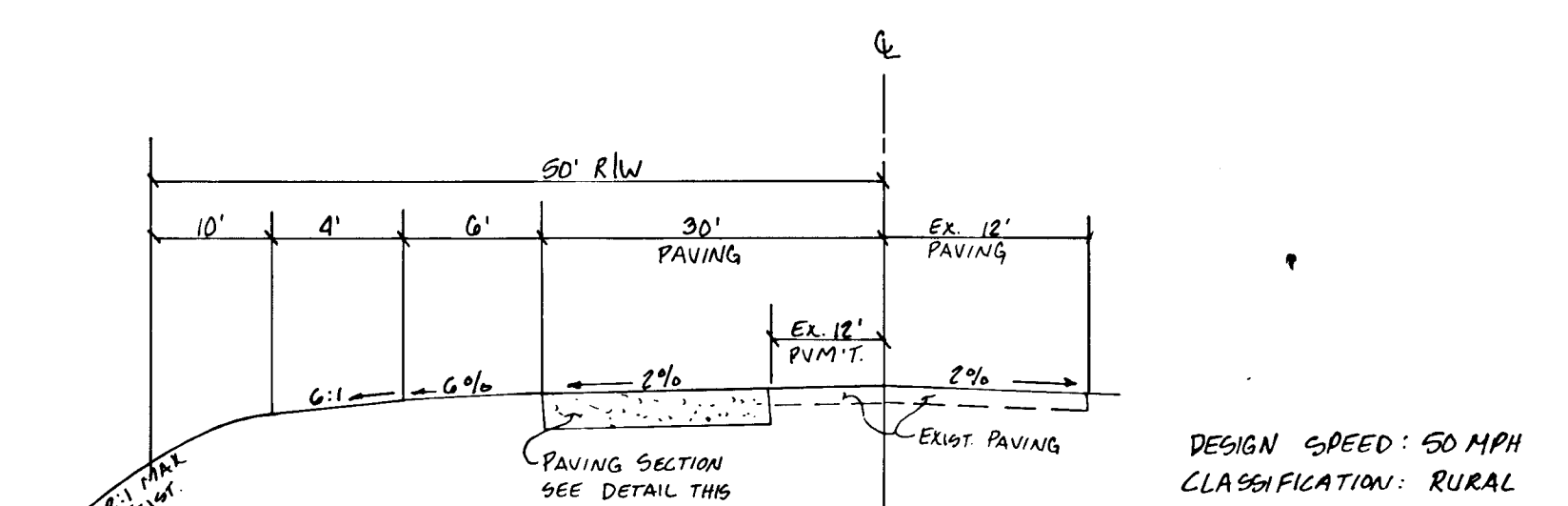
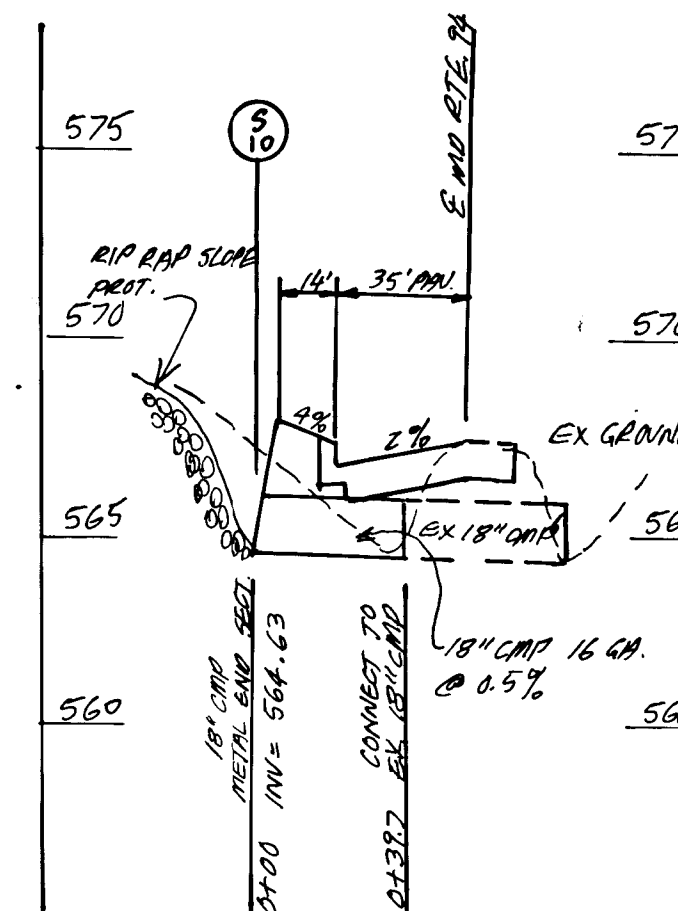
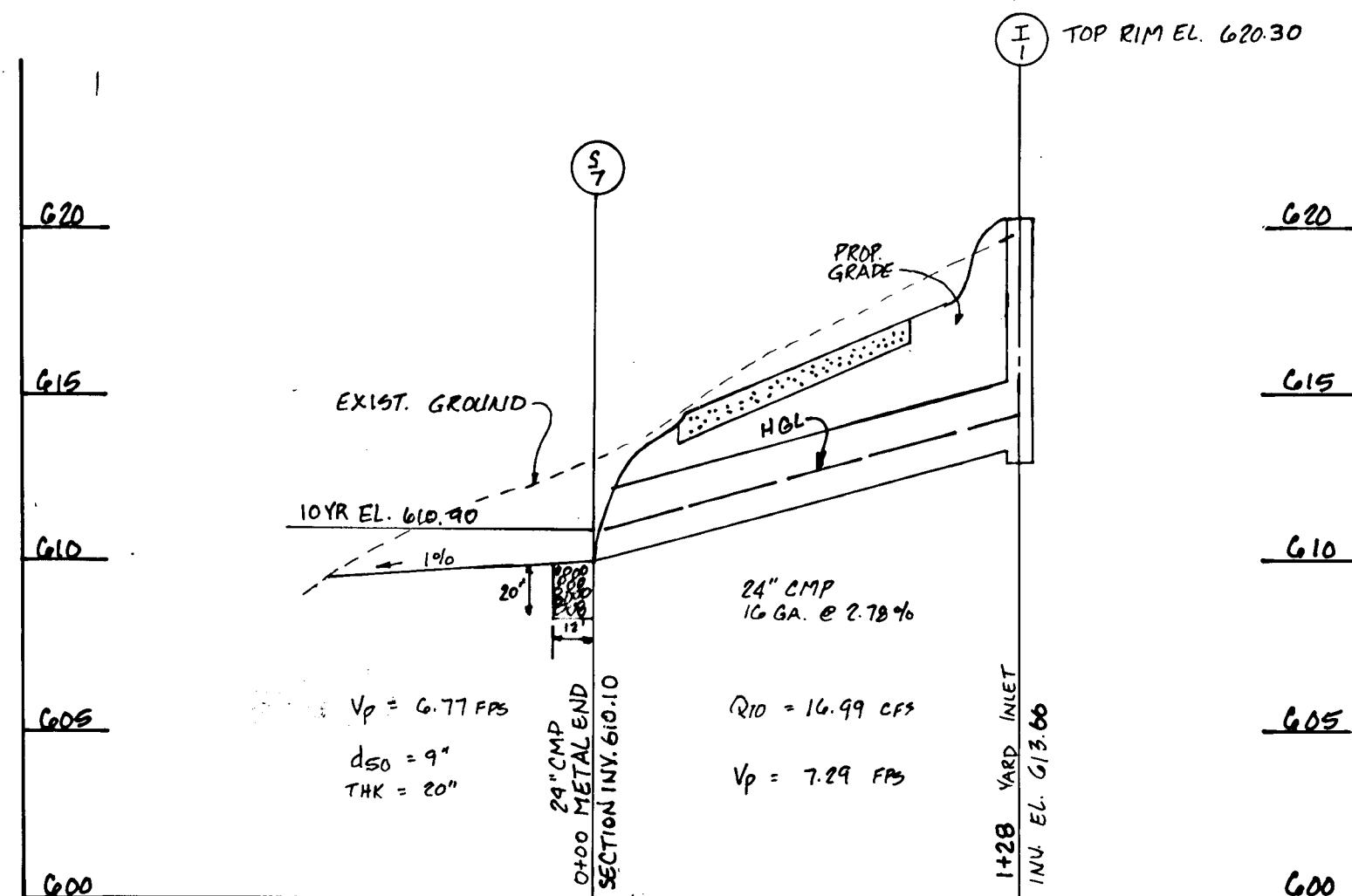
1535



STRUCT. NO.	TYPE	TOP ELEV.	INVERT IN	INVERT OUT	REMARKS	STATION
S1	60" CONC. STANDARD END SUPPORT WALL	568.28	---	565.28	SD (MD-350.0)	AUTUMN WILLOW DR 6+50 - 36' LT.
S2	60" CONC. STANDARD END SUPPORT WALL	569.00	566.00	---	SD (MD-350.0)	AUTUMN WILLOW DR 6+45 - 35' RT.
S3	15" CMP METAL END SECTION	567.60	567.60	---	SD-5.61	AUTUMN WILLOW DR 5+22 36' LT.
S4	15" CMP METAL END SECTION	569.75	---	569.75	SD-5.61	AUTUMN WILLOW DR 5+18 46' RT.
S5	22x36 CMPA METAL END SECTION	599.90	599.90	---	SD-5.63	AUTUMN WILLOW DR 17+81 27' RT.
S6	22x36 CMPA METAL END SECTION	601.00	---	601.00	SD-5.63	AUTUMN WILLOW DR 18+10 35' LT.
S7	24" CMP METAL END SECTION	610.10	610.10	---	SD-5.61	AUTUMN WILLOW DR 20+38 25' LT.
S8	15" CMP METAL END SECTION	562.20	562.20	---	SD-5.61	AUTUMN WILLOW DR 8+47 44.5' LT.
S9	15" CMP METAL END SECTION	563.80	---	563.80	SD-5.61	MD RTE 94 10+10 51.5' LT.
I1	YARD INLET	620.00	---	613.30	SD-4.14	AUTUMN WILLOW DR 21+66 18' LT.



MARYLAND RT 94 ROAD WIDENING SECTIONS @ STA. 8+11 THRU STA. 12+05 N.T.S.



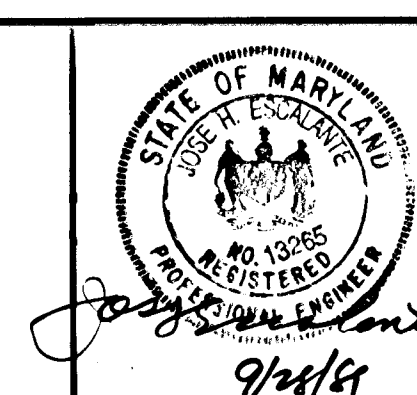
MARYLAND RT. 94 ROAD WIDENING SECTIONS @ STATION 13+50 N.T.S.

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 1/12/90
 CHIEF, LAND DEVELOPMENT DIVISION
 [Signature] 1/5/90
 CHIEF, BUREAU OF HIGHWAY
 [Signature] 1-16-90
 CHIEF, BUREAU OF ENGINEERING
 APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING
 [Signature] 2/2/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DESIGNED	H. SHIEN	DATE	REVISIONS
DRAWN	C. DEZORR	DATE	DESCRIPTION
CHECKED		DATE	
APPROVED		DATE	

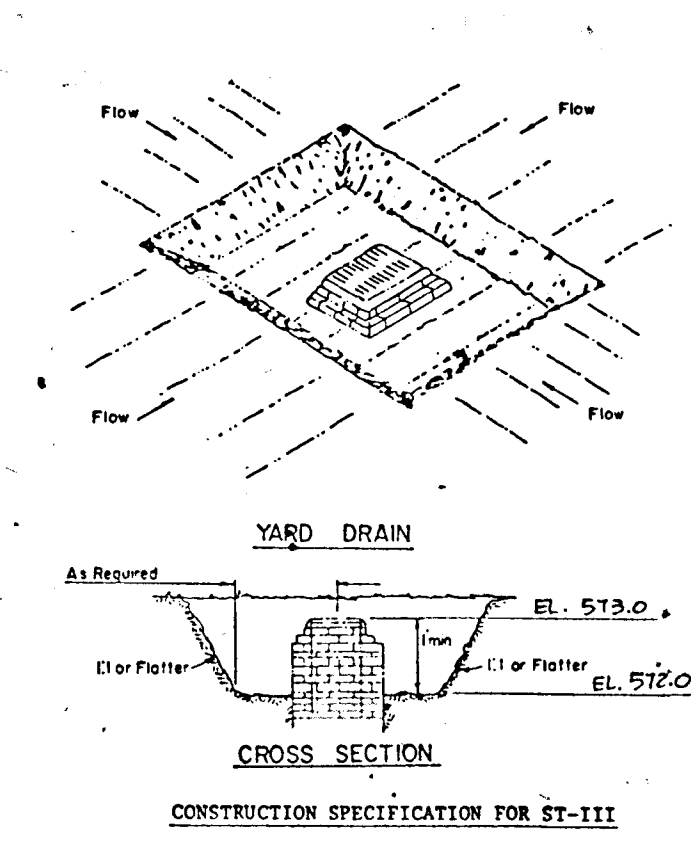
Dewberry & Davis
 ARCHITECTS ENGINEERS — PLANNERS — SURVEYORS
 3300 N. RIDGE ROAD SUITE 100
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-7478



OWNER/DEVELOPER:
COLUMBIA HOMES
 10480 LITTLE PATUXENT PARKWAY
 SUITE 1250
 COLUMBIA, MARYLAND 21044
 (301) 730-5544

STORM DRAIN PROFILES
WILLOWDALE
 LOTS 1 THRU LOTS 24
 TAX MAP 7 PARCEL 83
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

1535



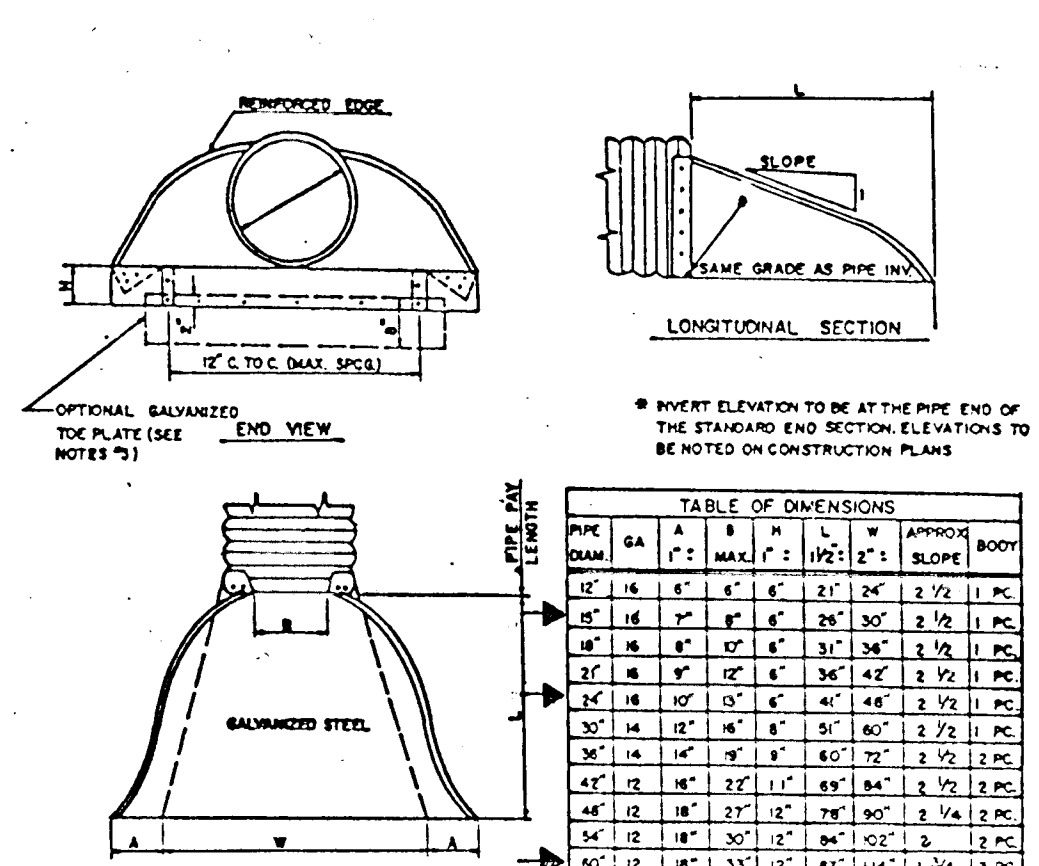
YARD DRAIN

AS REQUIRED

CROSS SECTION

CONSTRUCTION SPECIFICATION FOR ST-111

- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 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 volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

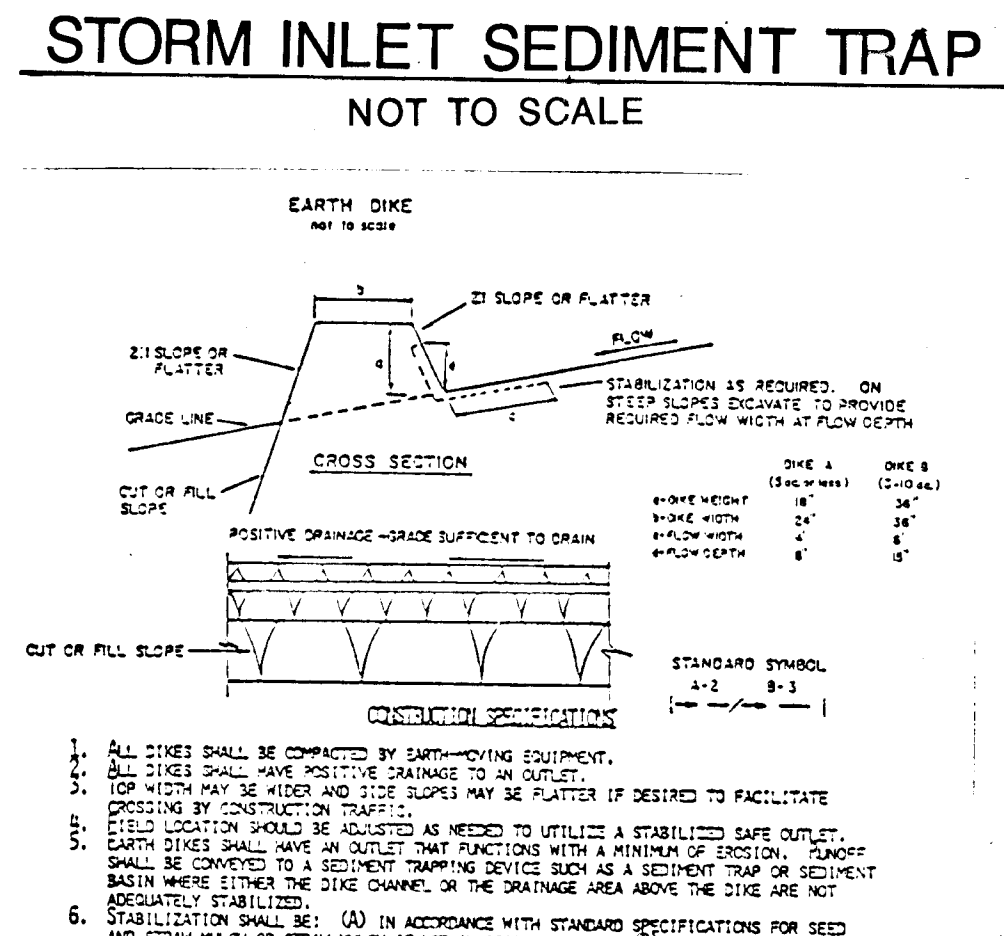


STORM INLET SEDIMENT TRAP

NOT TO SCALE

TABLE OF DIMENSIONS

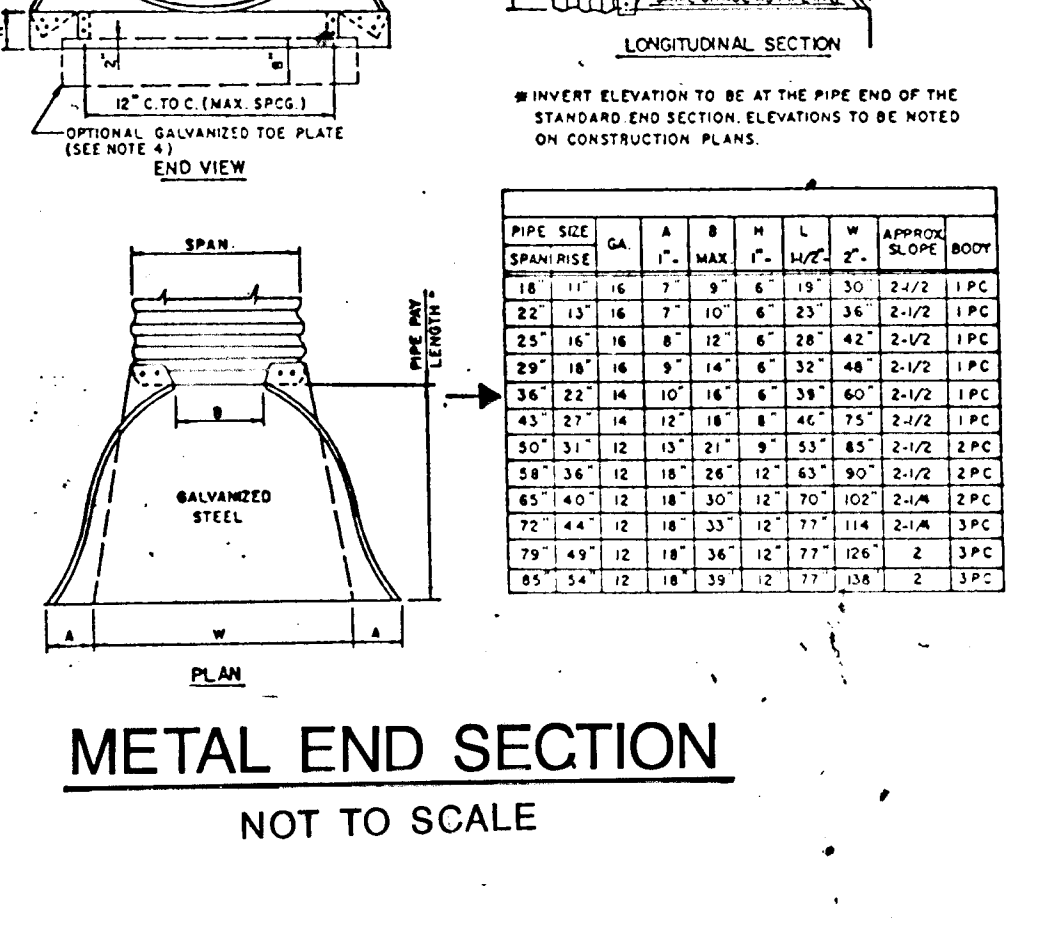
PIPE DIA.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
12"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"



EARTH DIKE DETAIL

NOT TO SCALE

- All dikes shall be constructed by earthmoving equipment.
- Top width shall be 4 feet and shall be maintained throughout the life of the dike.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction equipment.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.
- Diets shall be constructed by hand or by machine as required.

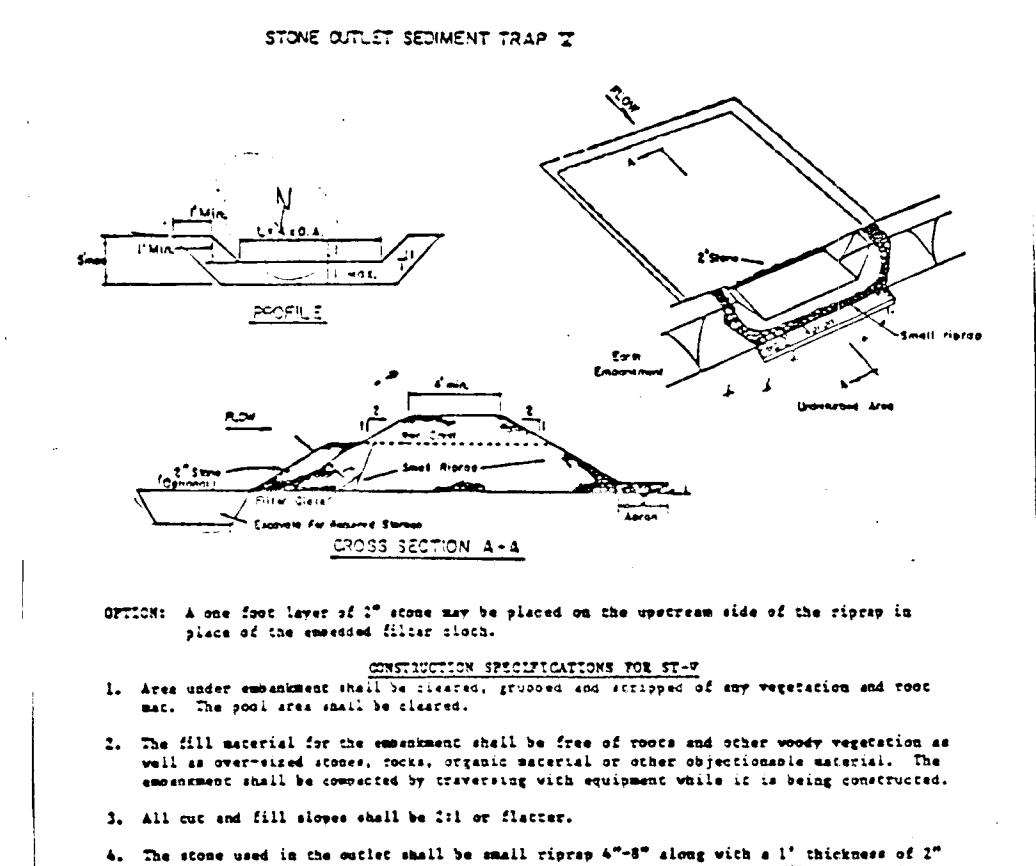


METAL END SECTION

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

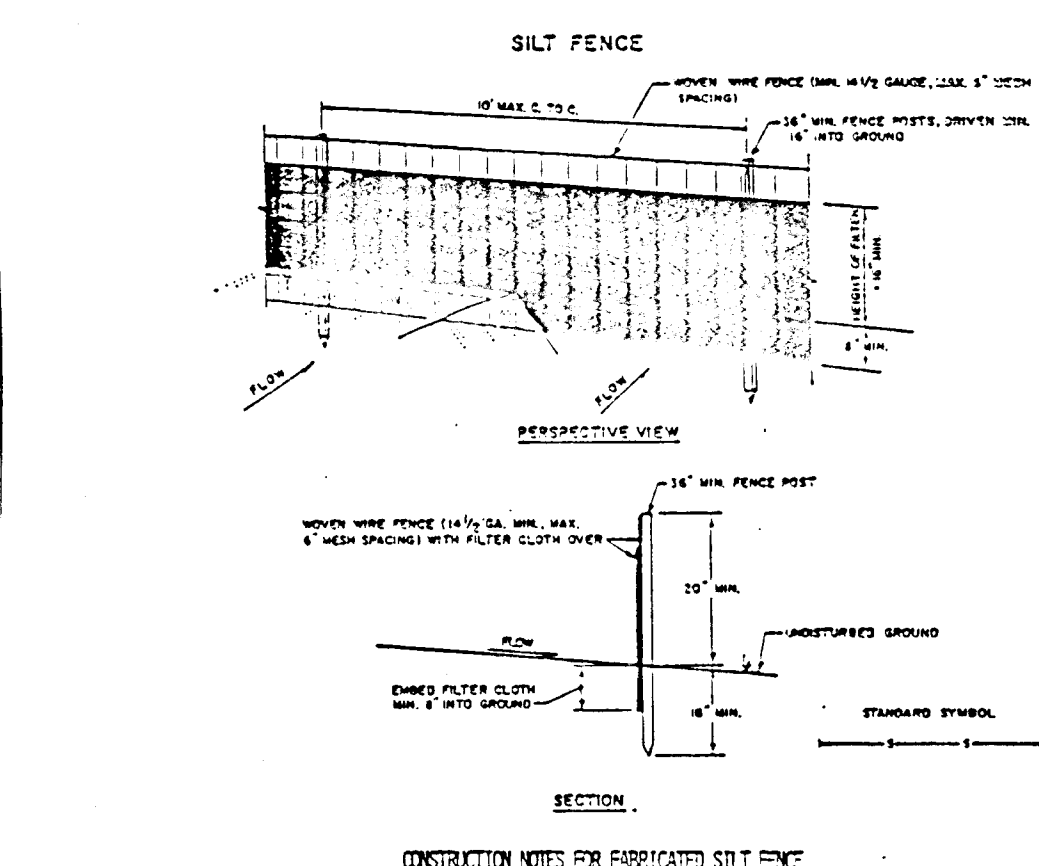


STONE OUTLET SEDIMENT TRAP DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

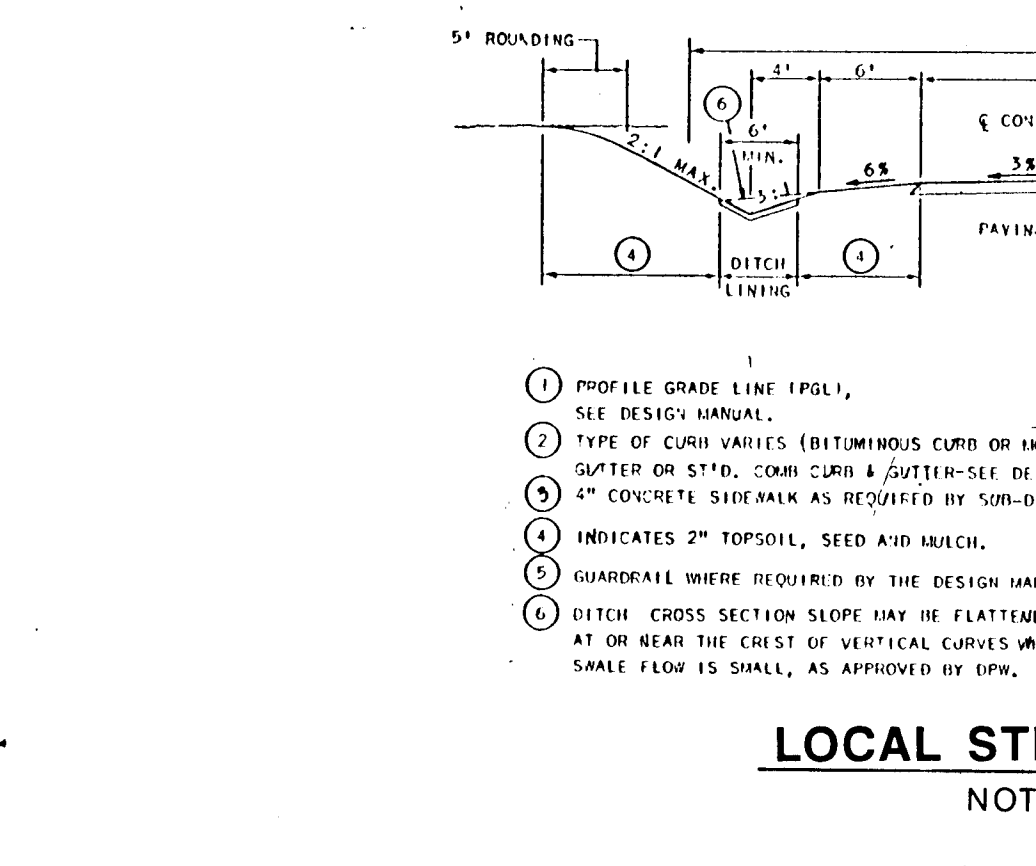


SILT FENCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

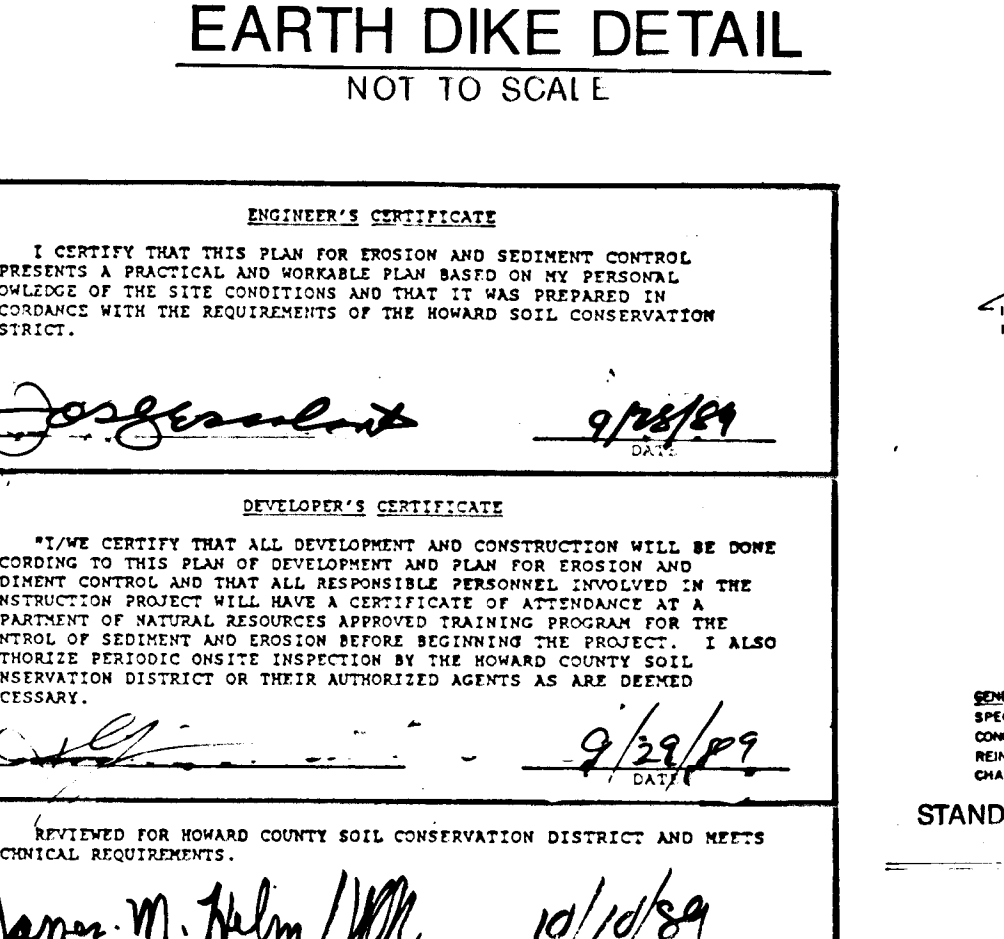


LOCAL STREET SECTION

NOT TO SCALE

DESIGN SPEED: 30 MPH
CLASSIFICATION: OPEN SECTION - RURAL

WILLOW BREEZE DRIVE : STA. 0+00 TO STA. 7+08
AUTUMN WILLOW DRIVE : STA. 0+00 TO STA. 20+40
WILLOW DALE COURT : STA. 0+00 TO STA. 7+80

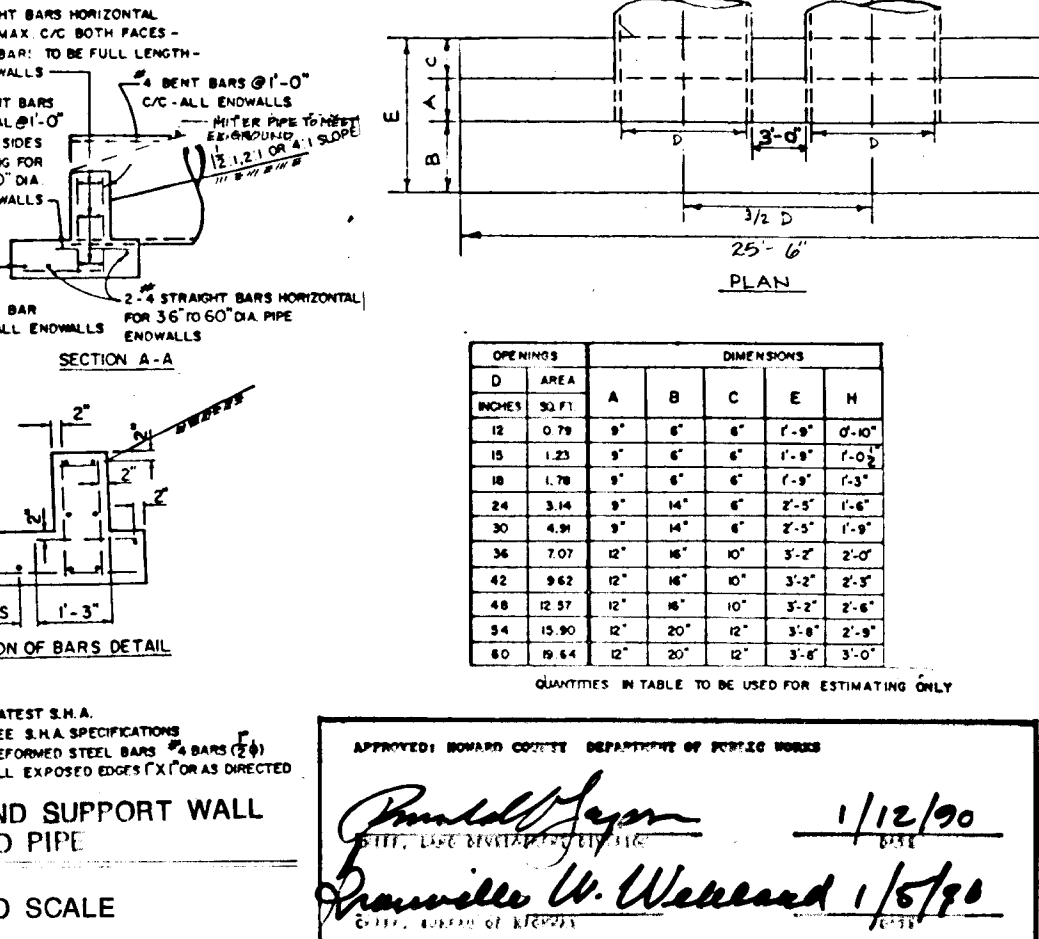


EARTH DIKE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

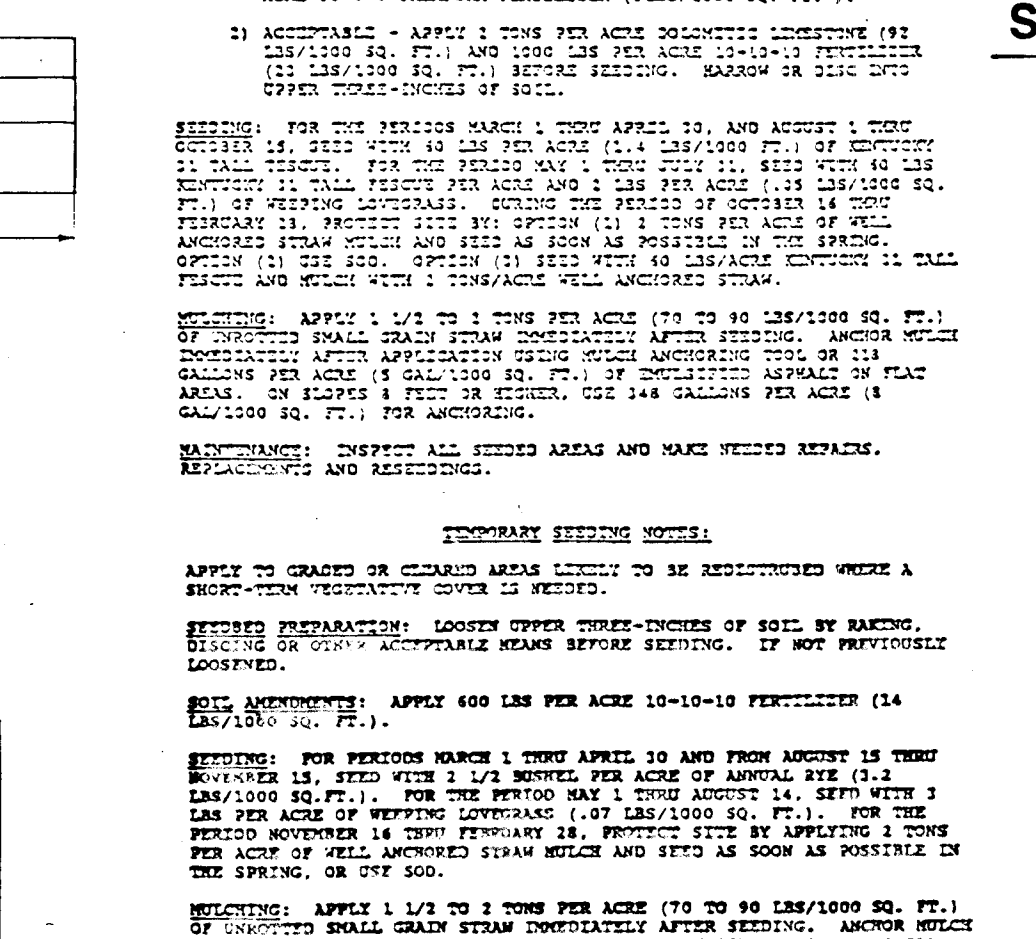


SEDIMENT TRAP DEWATERING DEVICE II @ TRAP #2 & #6

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

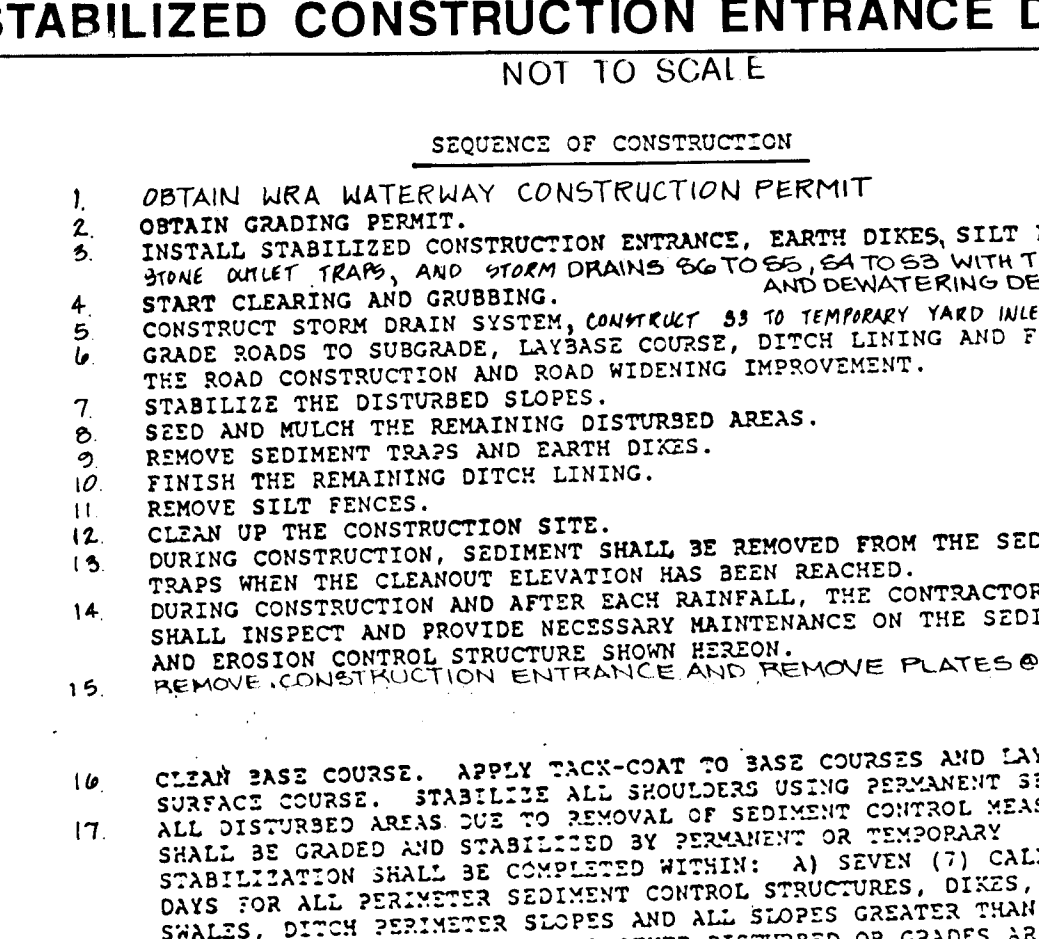


STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

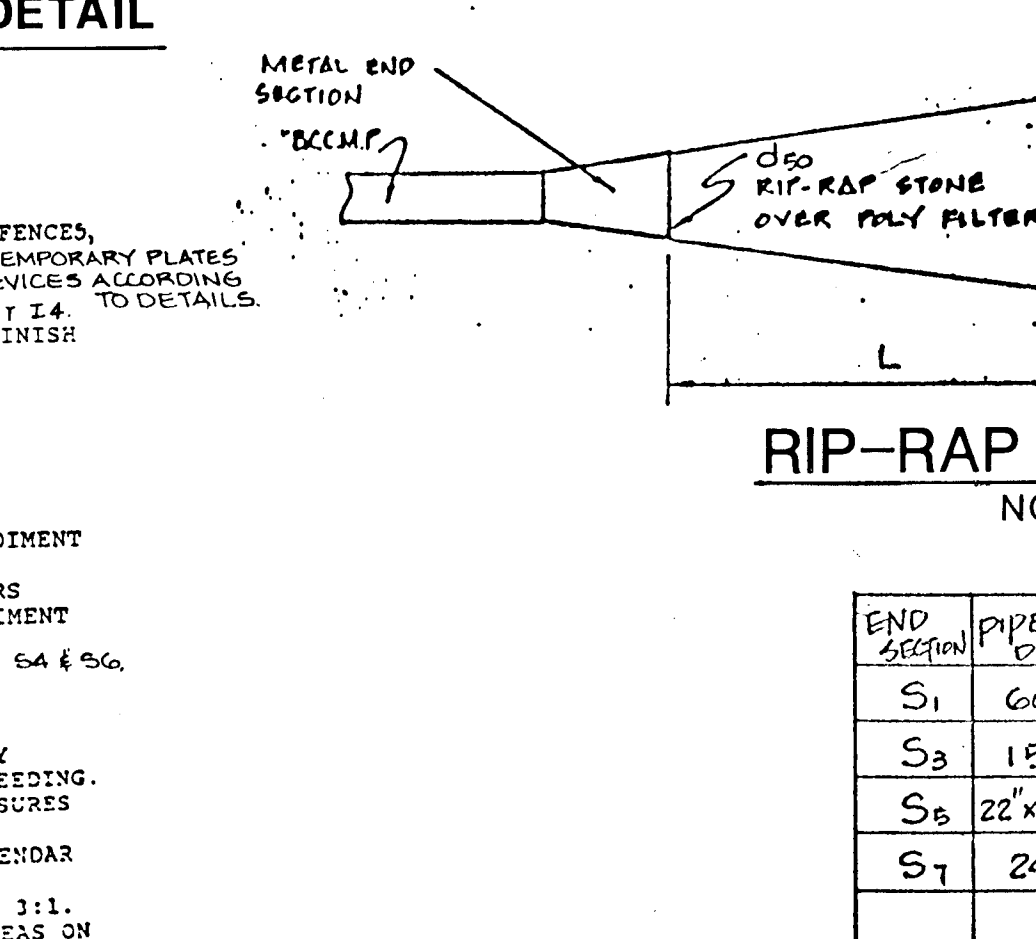


RIP-RAP CHANNEL DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.



P-2 PAVING SECTIONS

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR ST-111

- 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 shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Joseph M. Dewberry 9/29/89

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL EMPLOYED BY THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

James M. Helm 10/10/89

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

John L. Roberts 10/10/89

REVISIONS

DESIGNED	DATE	BY	DESCRIPTION

Dewberry & Davis

ENGINEERS - ARCHITECTS - PLANNERS - SURVEYORS

3300 N.RIDGE ROAD SUITE 100
ELLICOTT CITY, MARYLAND 21043
(301)461-7478

OWNER/DEVELOPER:

COLUMBIA HOMES
10480 LITTLE PATUXENT PARKWAY
SUITE 1250
COLUMBIA, MARYLAND 21044
(301)730-5544

SEDIMENT CONTROL & ROAD DETAILS

WILLOWDALE

LOTS 1 THRU LOTS 24
TAX MAP 7 PARCEL 83
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

END SECTION	PIPE DIA.	W/F	L (FT)	D (IN)	d (IN)
S1	60"	37	32	27	12
S3	15"	9.5	8	9	4
S6	22"x36"	14.5	12	4	6
S7	24"	14	12	20	9

1535

F 89179