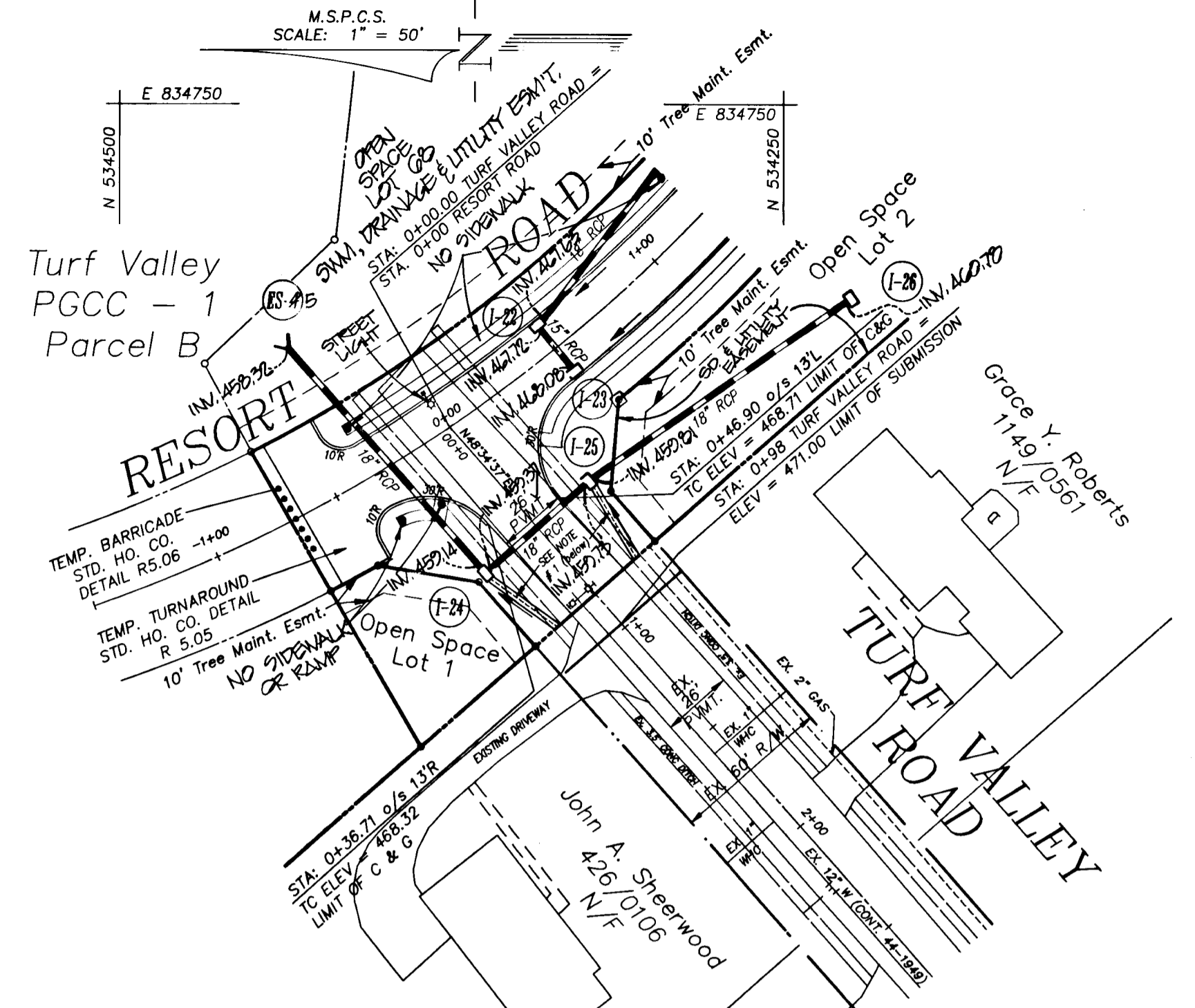


GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
- The contractor shall notify the Department of Public Works / Construction Inspection Division at (301) 313-1800 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-(800) 257-7777 at least 48 hours prior to any excavation work.
- Project Background:

Location:	Parcel 16 Parcel 8
Zoning:	PGCC-1
Section/Area:	PGCC-1 Subdistrict, Parcel C, Area 1-C
Total PGCC-1 Area:	373.29 Acres
Total Parcel C, Area 1-C Area:	47.62 Acres
Number of proposed lots:	67
- Comprehensive Sketch Plan: S-86-13
 FDP PGCC-1: 3054-A-1019 Approved 3/31/86
 Sketch Plan: S-93-12 Approved 4/2/87
 DP2 Waiver Petition: WP-93-16 Approved 9/16/92
 Preliminary Plan: P-93-10 Approved 1/15/93
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- Topographical information for the project is based on aerial photography at two (2) foot contour intervals prepared by Merys Aerial Mapping Company dated April 1992. Ground survey control was provided by Mildenberg, Mochi & Associates, Inc.
- Survey control is based on NAD '27 Maryland Coordinate System as projected by Howard County Geodetic Control Stations:

No. 3440001	N 534735.478	Elev. 468.341
No. 3440002	N 532786.297	Elev. 462.306
	N 533593.800	Elev. 462.306
	E 837883.948	
- Light poles and fixtures for street lights shall be in accordance with the latest Howard County Design Manual, Volume III, Roads and Bridges.
- The proposed water and sewer systems shall be public.
- The stormwater management facilities proposed are extended-detention basin.
- The floodplain definition is based on "Howard County Capital Project D-1065, Part 2 to Addendum to Little Patuxent River Hydrology Model, Little Patuxent River Watershed Model Update, Ultimate Watershed Development" prepared by Bernard Johnson, Inc. on September 1986.
- The vegetative analysis was prepared by Mildenberg, Mochi & Associates, Inc. dated April 1992 as support to S-92-15 approved on April 3, 1992. The wetlands study was prepared by Exploration Research, Inc. dated September 1988, and updated by Mildenberg, Mochi & Associates, Inc. dated September 1992 as support to P-93-10 approved January 15, 1993. No wetlands areas were delineated with the PGCC-1 Subdistrict, Parcel C, Area 1-C limits.
- This project is subject to the "Traffic Impact Analysis for Turf Valley County Club" (Phase II, Area 1-C, Pages 16 & 18 Exhibits 12 & 13) prepared by The Traffic Group, Inc. dated March 31, 1986 and approved April 25, 1986. In addition, a "Road Capacity Analysis Report" was prepared by The Traffic Group, Inc. dated December 14, 1992 as support to P-93-10 approved on January 15, 1993.
- The noise study for the site was prepared by M.A. Drake & Co., Inc. on July 20, 1993.
- The geotechnical report for the proposed stormwater management facility was prepared by Herbst & Associates dated October 5, 1992 as support to P-93-10 approved on January 15, 1993.
- No existing utilities were located within the limits of submission. The contractor shall be responsible to confirm the existence or non-existence of any utilities within the limits of construction. Should the contractor locate any utilities on-site, he shall notify the Engineer immediately prior to continuing with any work.
- This plan is in conformance with the latest edition of the Americans with Disabilities Act.
- 95% completion in all fill areas as determined by AASHTO T-180.
- For continuation of information deleted from this contract see F-96-107

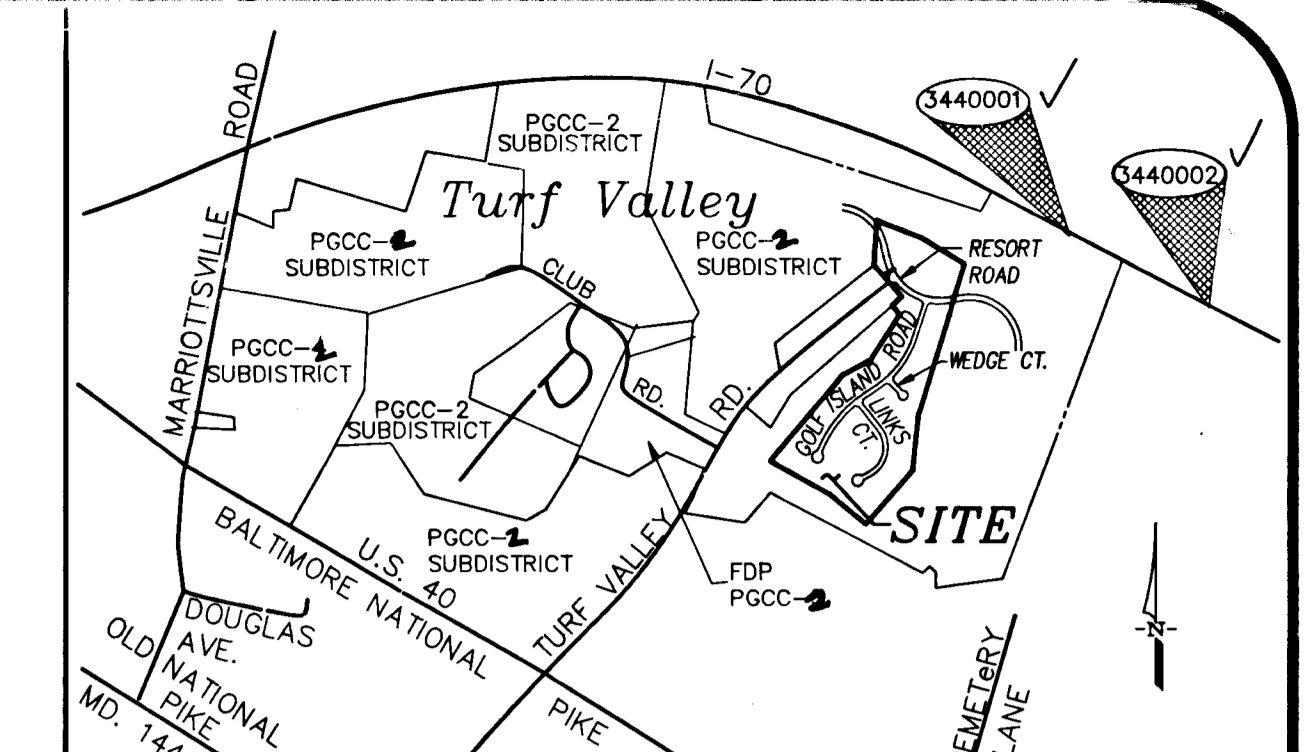


INDEX OF DRAWINGS

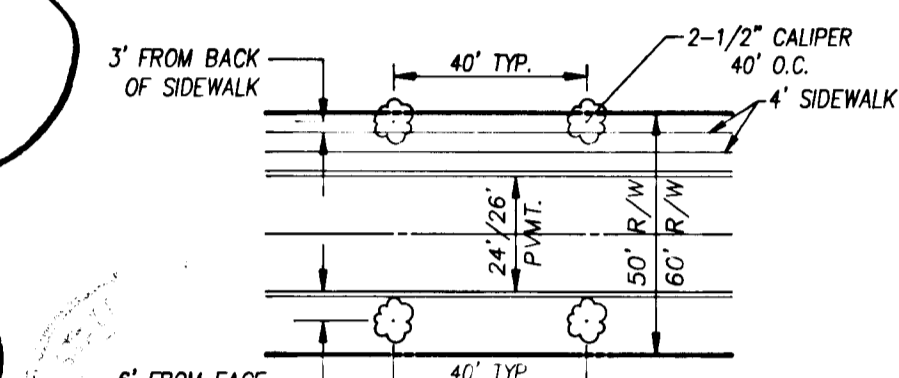
- TURF VALLEY ROAD & WEDGE COURT : PLAN & PROFILE
- RESORT ROAD : PLAN & PROFILE
- GOLF ISLAND ROAD : PLAN & PROFILE
- GOLF ISLAND ROAD : PLAN & PROFILE
- LINKS COURT : PLAN & PROFILE
- GRADING & SEDIMENT CONTROL PLAN
- GRADING & SEDIMENT CONTROL PLAN
- GRADING & SEDIMENT CONTROL PLAN
- STORM DRAIN PROFILES
- STORM DRAIN PROFILES
- STORM DRAIN PROFILES
- STORMWATER MANAGEMENT PROFILES & DETAILS
- STORMWATER MANAGEMENT PROFILES & DETAILS
- STORMWATER MANAGEMENT PROFILES & DETAILS
- SEDIMENT CONTROL NOTES & DETAILS
- DRAINAGE AREA MAP FOR STORM DRAINS

PLAN

SCALE: 1" = 50'



Vicinity Map
Scale: 1" = 2000'



TREE PLANTING DETAIL

MEDIUM TREES - 2-1/2" CALIPER OR LARGER
NOT TO SCALE

OWNER/DEVELOPER
MANGIONE ENTERPRISES OF TURF VALLEY
1205 YORK ROAD - PENTHOUSE
LUTHERVILLE, MARYLAND 21043
(410) 825-8400
ATTN: MR. LOUIS MANGIONE

MILDENBERG, MOCHI & ASSOC., INC.
3300 North Ridge Road #235
Ellicott City, Maryland 21043
(301) 461-0078
ATTN: MR. ROBERT M. MOCHI, P.E.

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John J. Deane 5/28/94
CHIEF, LAND DEVELOPMENT DIVISION
Robert M. Deane 5/13/94
CHIEF, BUREAU OF HIGHWAYS
Robert L. Pappas 5/23/94
CHIEF, BUREAU OF ENGINEERING

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

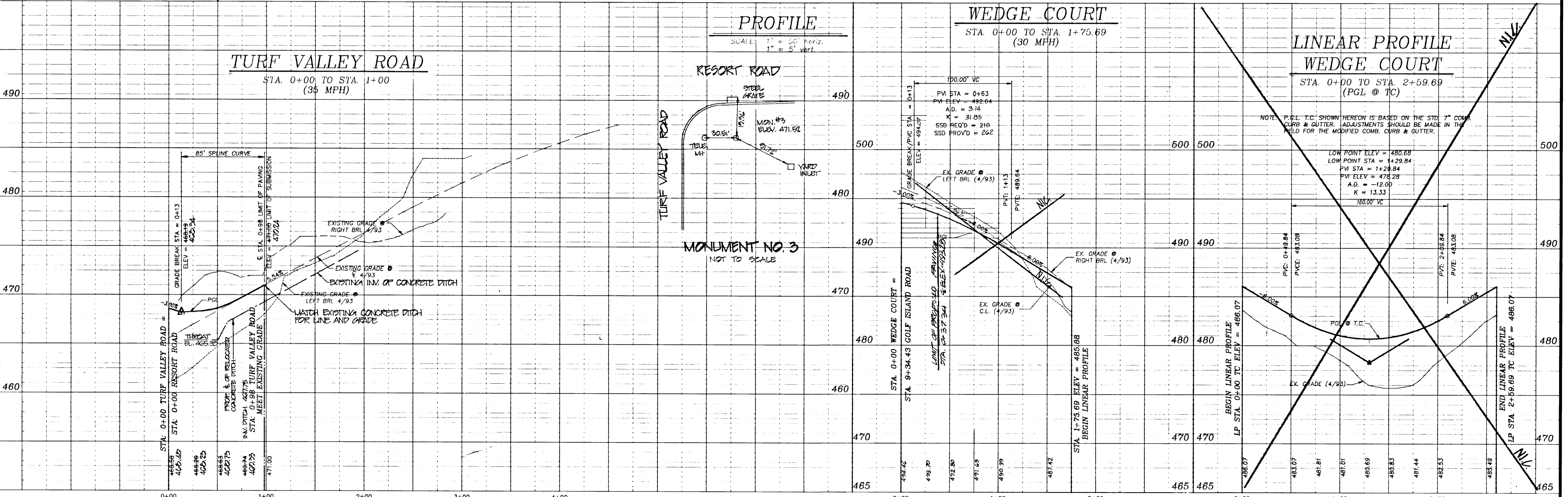
Cina Jourjany 5/31/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

STREET LIGHT DATA

RESORT ROAD STA. 0+00 0/4 19.37'L	150 WATT HPS VAPOR PENDANT FIXTURE MOUNTED ON A 25 FOOT GALVANIZED STEEL POLE WITH A 6 FOOT ARM	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB
RESORT ROAD STA. 4+46.22 0/4 18.22'	100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB
GOLF ISLAND ROAD STA. 19+79.24 0/4 16.94'	100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB
LINKS COURT STA. 0+34.33 0/4 17.37'L	100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB
LINKS COURT STA. 0+49.65 0/4 18.37'L	100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB
WEDGE COURT STA. 0+31.54 0/4 16.75'R	100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE	STREET LIGHT SHALL BE PLACED 2'-10" FROM BACK OF CURB

STREET LIGHTING LEGEND

- 150 WATT HPS VAPOR PENDANT FIXTURE MOUNTED ON A 25 FOOT GALVANIZED STEEL POLE WITH A 6 FOOT ARM
- 100 WATT HPS VAPOR TRADITIONAL POST TOP FIXTURE MOUNTED ON A 14 FOOT BLACK FIBERGLASS POLE



TURF VALLEY ROAD

STA. 0+00 TO STA. 1+00
(35 MPH)

PROFILE

SCALE: 1" = 50' Horiz.
1" = 5' Vert.

WEDGE COURT

STA. 0+00 TO STA. 1+75.69
(30 MPH)

LINEAR PROFILE

WEDGE COURT
STA. 0+00 TO STA. 2+59.69
(PGL @ TC)

date	JULY '93	approval	RAM
project	91012.03	illustration	YSL/LG
drawing	6/18/93	scale	1" = 50'
revision	10/11/94	description	
revision	10/11/94	description	
revision	10/11/94	description	
revision	10/11/94	description	

REVISED - REMOVED OVERLAP FROM 107
REVISIONS TO WEDGE CT. PROFILE
DRAWING TO BE SUBMITTED TO HOWARD COUNTY D.P.Z.
DATE: 10/11/94

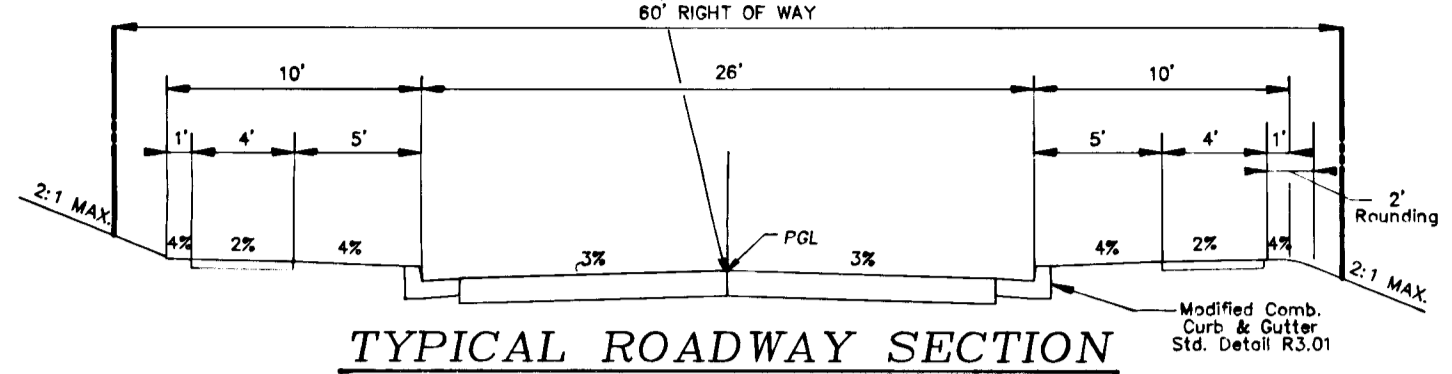
PGCC-1 Subdistrict Parcel C Area 1-C
TURF VALLEY - PGCC-1
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
TURF VALLEY ROAD & WEDGE COURT - PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland, 21043-3350
(410) 461-0079 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

1695

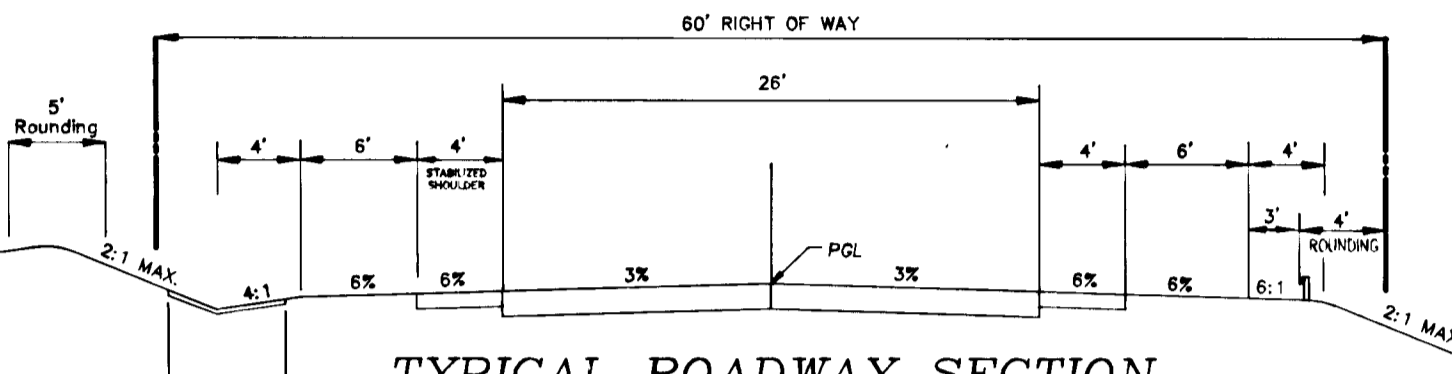
F-94-06

CENTER LINE PAVEMENT MARKINGS TO BE IN ACCORD WITH SEC. 3A-3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES



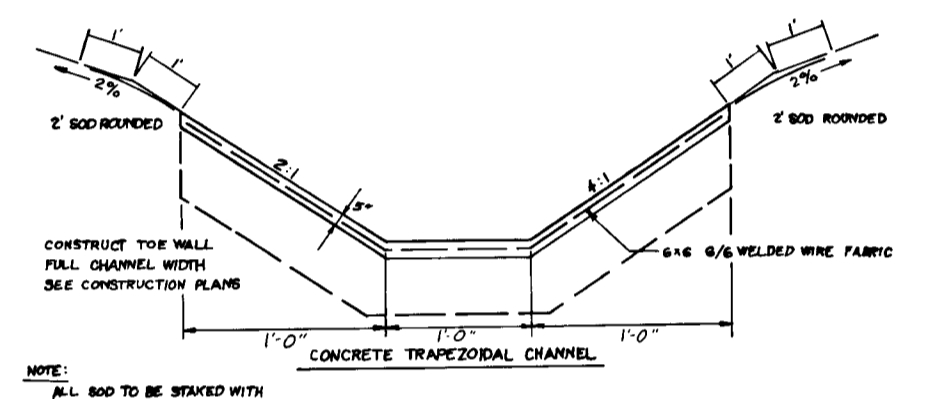
TYPICAL ROADWAY SECTION

NOT TO SCALE
RESORT ROAD
MINOR COLLECTOR
1000-3000 A.D.T.
DESIGN SPEED - 35 MPH



TYPICAL ROADWAY SECTION

NOT TO SCALE
TURF VALLEY ROAD
MINOR COLLECTOR
HOWARD COUNTY STANDARD FIGURE R1.03
OPEN SECTION (RURAL) 7% ZONING DISTRICT
DESIGN SPEED - 35 MPH



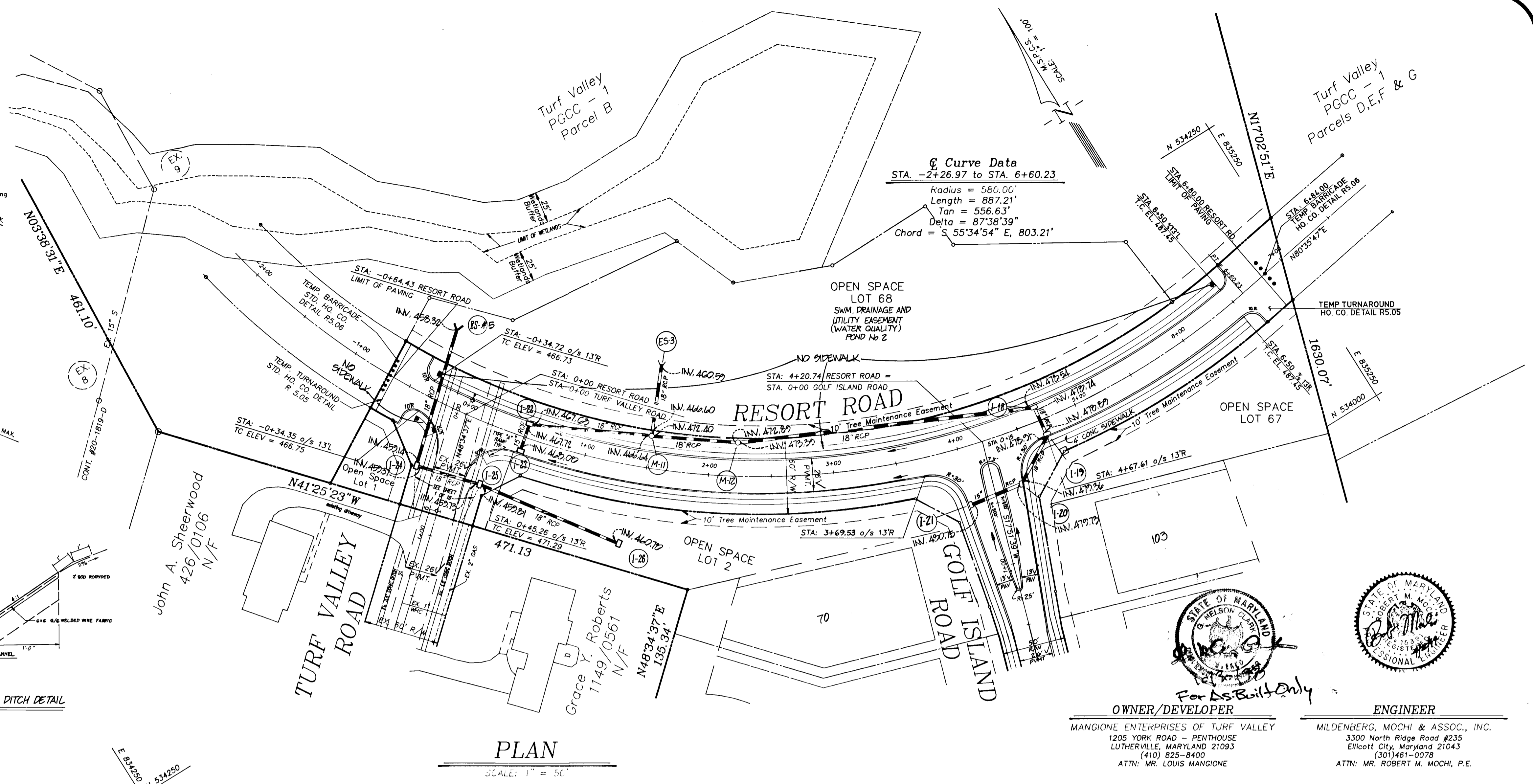
TRAPEZOIDAL CONCRETE DITCH DETAIL
NO SCALE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chad Damm 5/20/94
CHIEF, LAND DEVELOPMENT DIVISION
Robert M. Mochi 5-13-94
CHIEF, BUREAU OF HIGHWAYS
Donald J. Pepson 5/23/94
CHIEF, BUREAU OF ENGINEERING

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Olivia Strummann 5/31/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH



PLAN
SCALE: 1" = 50'

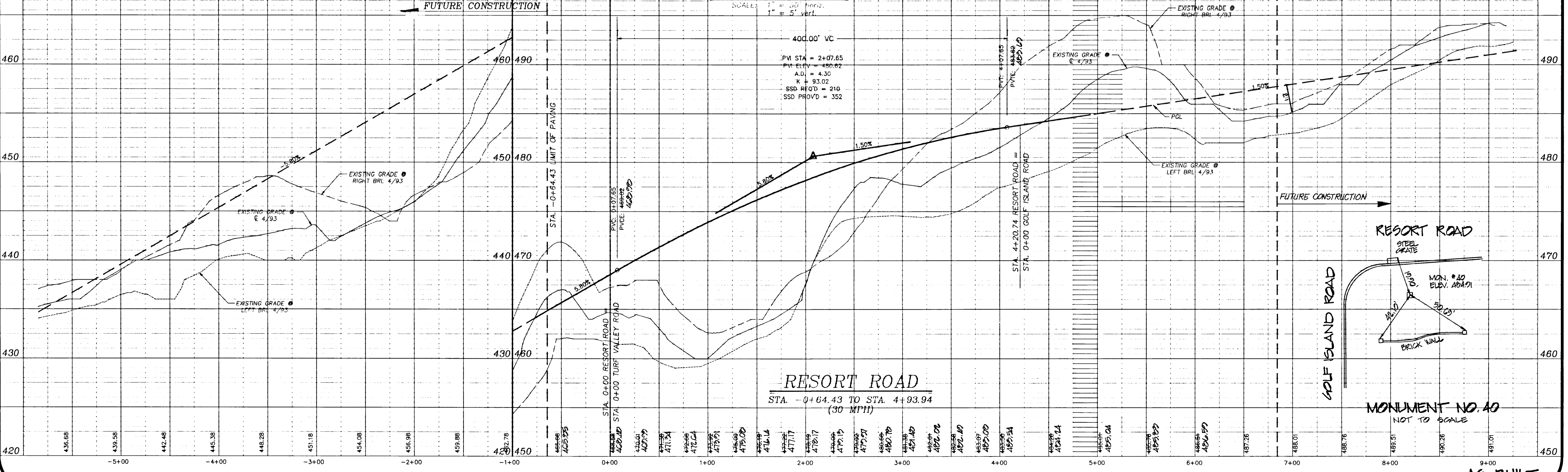
Curve Data
STA. -2+26.97 to STA. 6+60.23
Radius = 580.00'
Length = 887.21'
Tan = 556.63'
Delta = 87°38'39"
Chord = 55°34'54" E, 803.21'



OWNER/DEVELOPER
MANGIONE ENTERPRISES OF TURF VALLEY
1205 YORK ROAD - PENTHOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400
ATTN: MR. LOUIS MANGIONE

ENGINEER
MILDENBERG, MOCHI & ASSOC., INC.
3300 North Ridge Road #235
Ellicott City, Maryland 21043
(301) 461-0078
ATTN: MR. ROBERT M. MOCHI, P.E.

PROFILE
SCALE: 1" = 50' horiz.
1" = 5' vert.



RESORT ROAD
STA. -0+64.43 TO STA. 4+93.94
(30 MPH)

RESORT ROAD

GOLF ISLAND ROAD

MONUMENT NO. 40
NOT TO SCALE

AS-BUILT

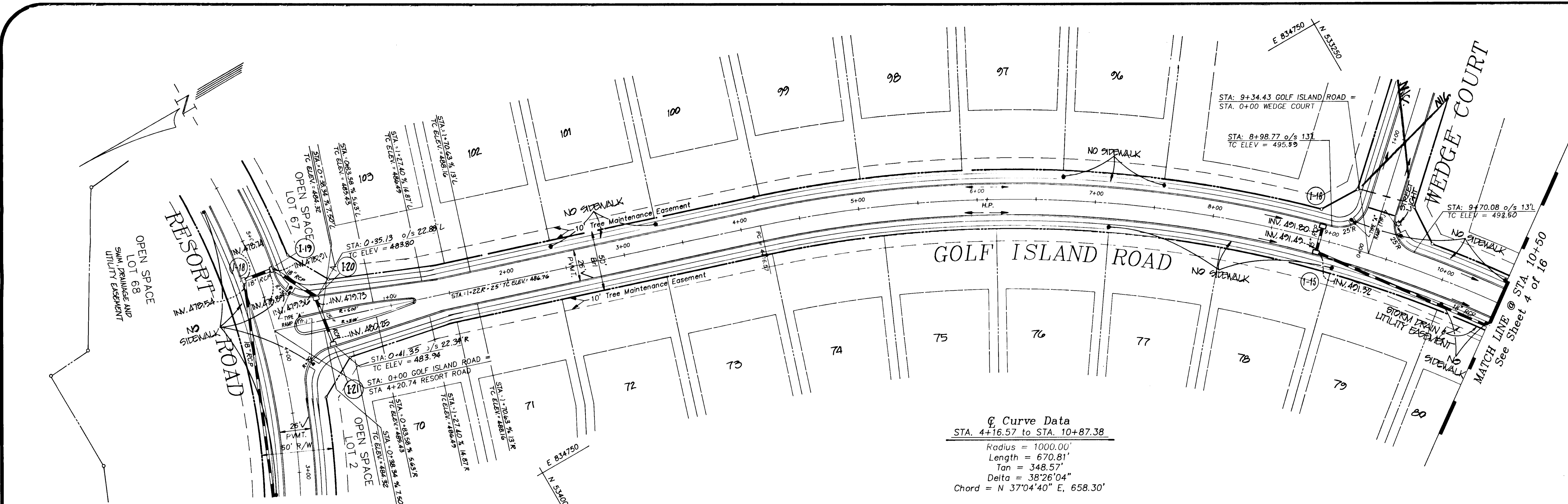
1695
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Project	91012.03	Date	JULY '98
Illustration	YSL/LIG	Engineering	AMY
Scale	1" = 50'	Approval	
Scale		Revision	

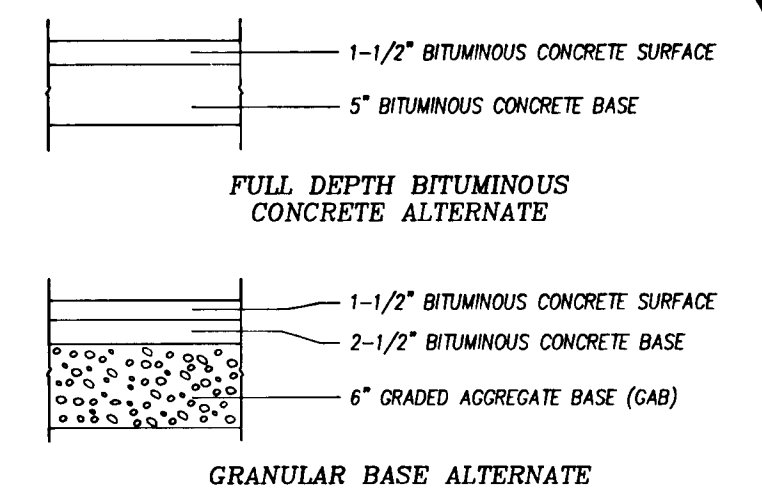
NO.	DESCRIPTION	DATE
2	REVISED PER COMMENTS	7/20/98
1	REVISED PER COMMENTS	7/16/98
0	1ST SUBMITTAL TO HOWARD COUNTY D.P.Z.	7/20/98

PGCC-1 Subdistrict Parcel C Area 1-C
TURF VALLEY - PGCC-1
ELECTION DISTRICT No. 2
RESORT ROAD - PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(410) 461-0079 Fax (301) 621-5768

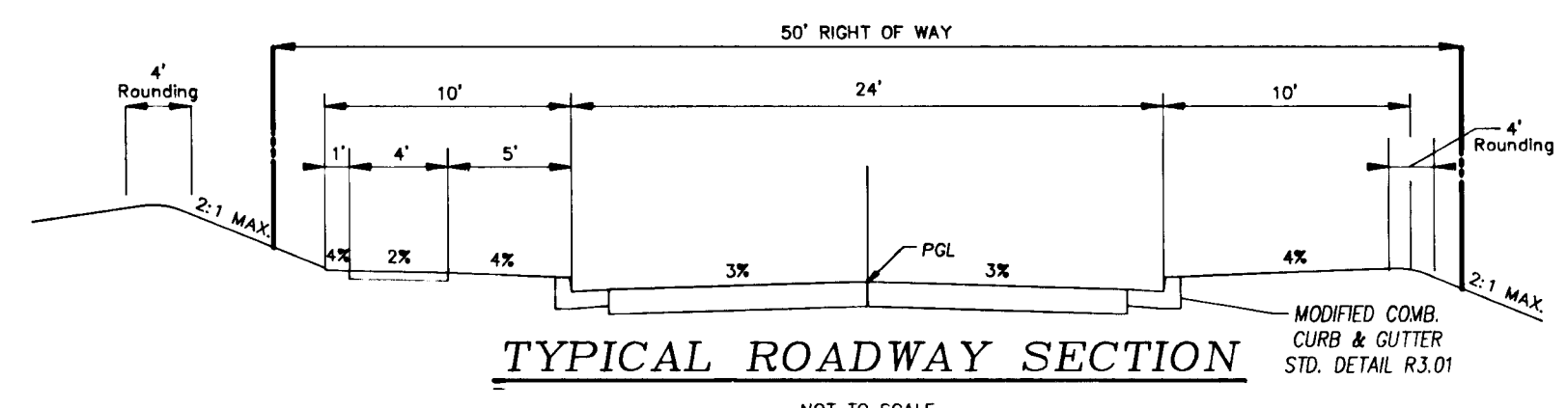


Curve Data
 STA. 4+16.57 to STA. 10+87.38
 Radius = 1000.00'
 Length = 670.81'
 Tan = 348.57'
 Delta = 38°26'04"
 Chord = N 37°04'40" E, 658.30'

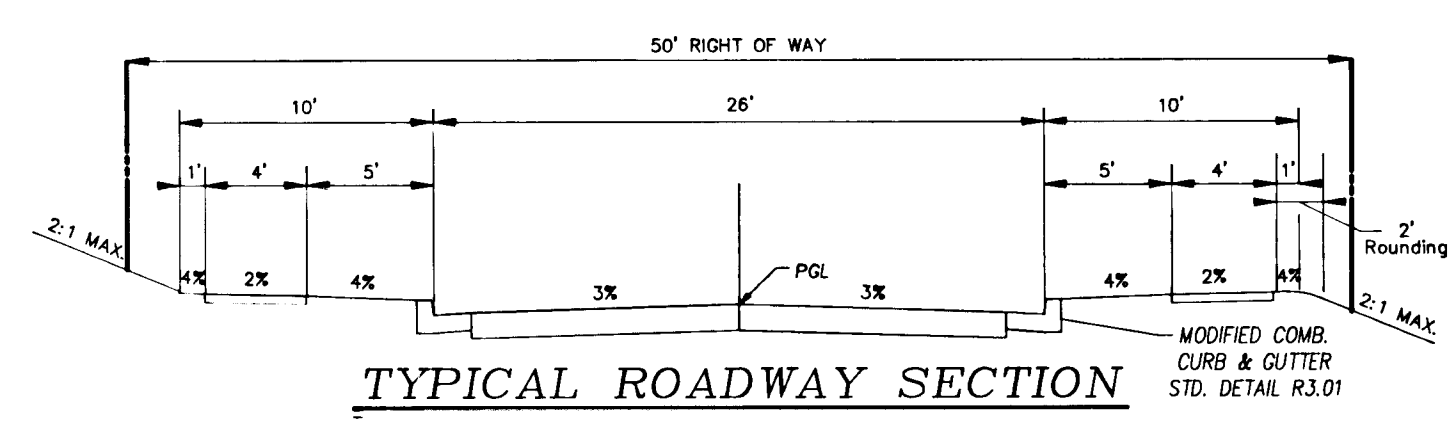


PAVING SECTION P-2
 NOT TO SCALE
 *MICROPOREOUS SOIL SUBGRADES REQUIRE THE USE OF EITHER OF THE AGGREGATE BASE PAVEMENT SECTIONS AS SHOWN ON THE PAVEMENT SECTION TABLE. EITHER THE FULL DEPTH BITUMINOUS CONCRETE SECTION OR THE AGGREGATE BASE PAVEMENT SECTIONS CAN BE USED FOR ALL OTHER SUBGRADE SOILS. HOWARD COUNTY DESIGN MANUAL VOLUME III SECTION 1100.02.01

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chris Dammann 5/20/94
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Charles M. Dauter 5-13-94
 CHIEF, BUREAU OF HIGHWAYS DATE
Paul B. Johnson 5/23/94
 CHIEF, BUREAU OF ENGINEERING DATE
APPROVED:
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
John Swannery 5/23/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

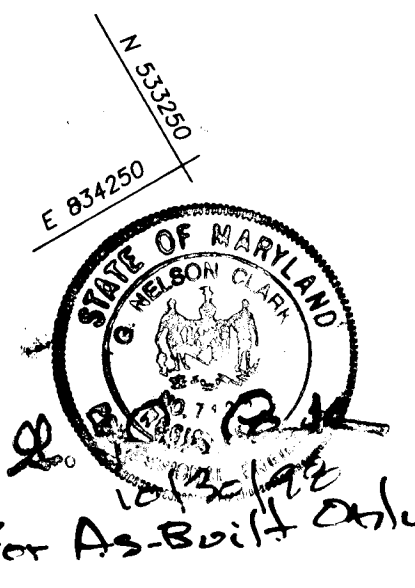


TYPICAL ROADWAY SECTION
 NOT TO SCALE
WEDGE COURT
 LOCAL ROAD, CUL-DE-SAC
 UNDER 250 ADT
 DESIGN SPEED - 30 MPH



TYPICAL ROADWAY SECTION
 NOT TO SCALE
GOLF ISLAND ROAD
 LOCAL ROAD, CUL-DE-SAC
 250-1000 ADT
 DESIGN SPEED - 30 MPH

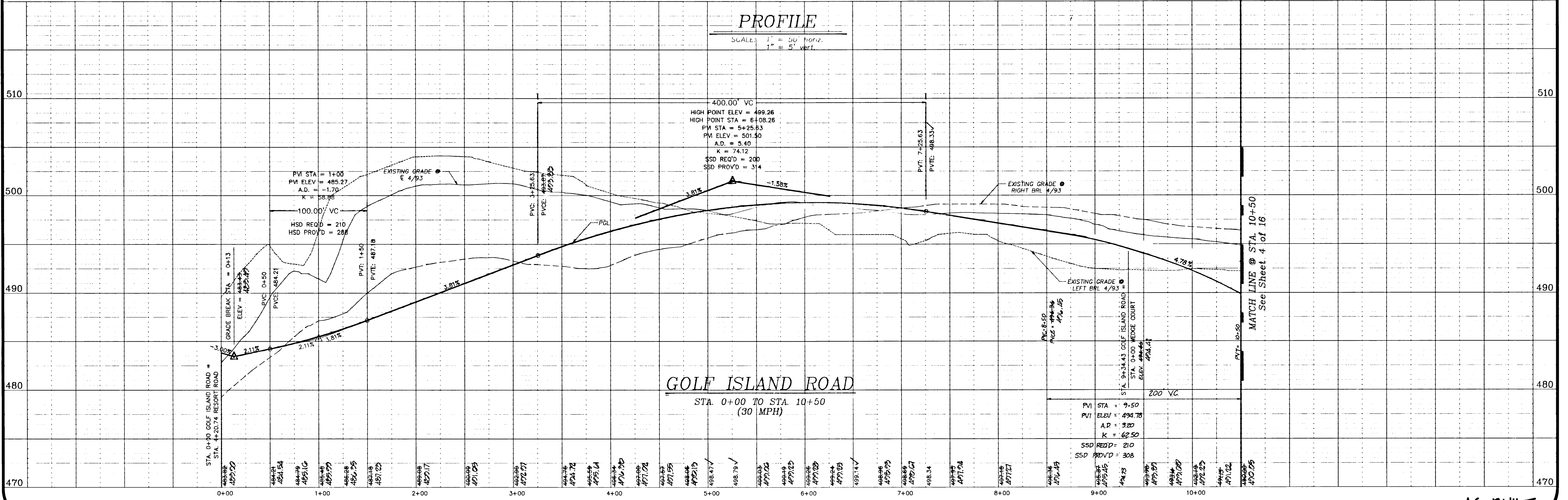
PLAN
 SCALE: 1" = 50'



OWNER/DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 YORK ROAD - PENTHOUSE
 LUTHERVILLE, MARYLAND 21093
 (410) 825-8400
 ATTN: MR. LOUIS MANGIONE

ENGINEER
 MILDENBERG, MOCHI & ASSOC., INC.
 3300 North Ridge Road #235
 Ellicott City, Maryland 21043
 (301) 461-0078
 ATTN: MR. ROBERT M. MOCHI, P.E.

PROFILE
 SCALE: 1" = 20' horiz.
 1" = 5' vert.



GOLF ISLAND ROAD
 STA. 0+00 TO STA. 10+50
 (30 MPH)

AS-BUILT

1697

date	7/19/93
project	91012.03
illustration	YSL/LJG
scale	1" = 50'
approval	AMY
revisions	RMM

date	6/12/97
description	REV. REVISIONS
no.	1
no.	2
no.	3
no.	4

PGCC-1 Subdistrict Parcel C Area 1-C
TURF VALLEY - PGCC-1
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND
 GOLF ISLAND ROAD - PLAN & PROFILE

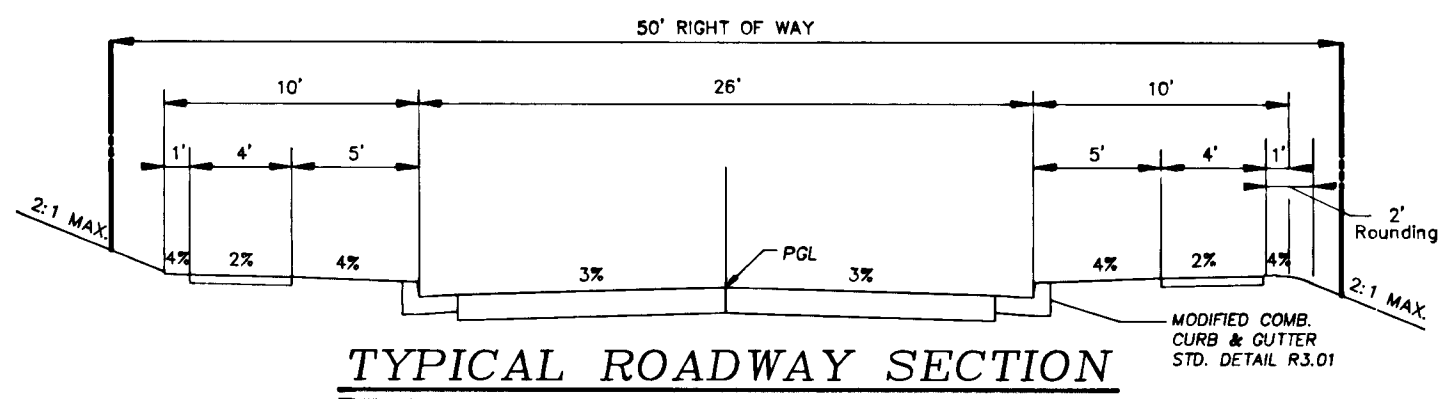
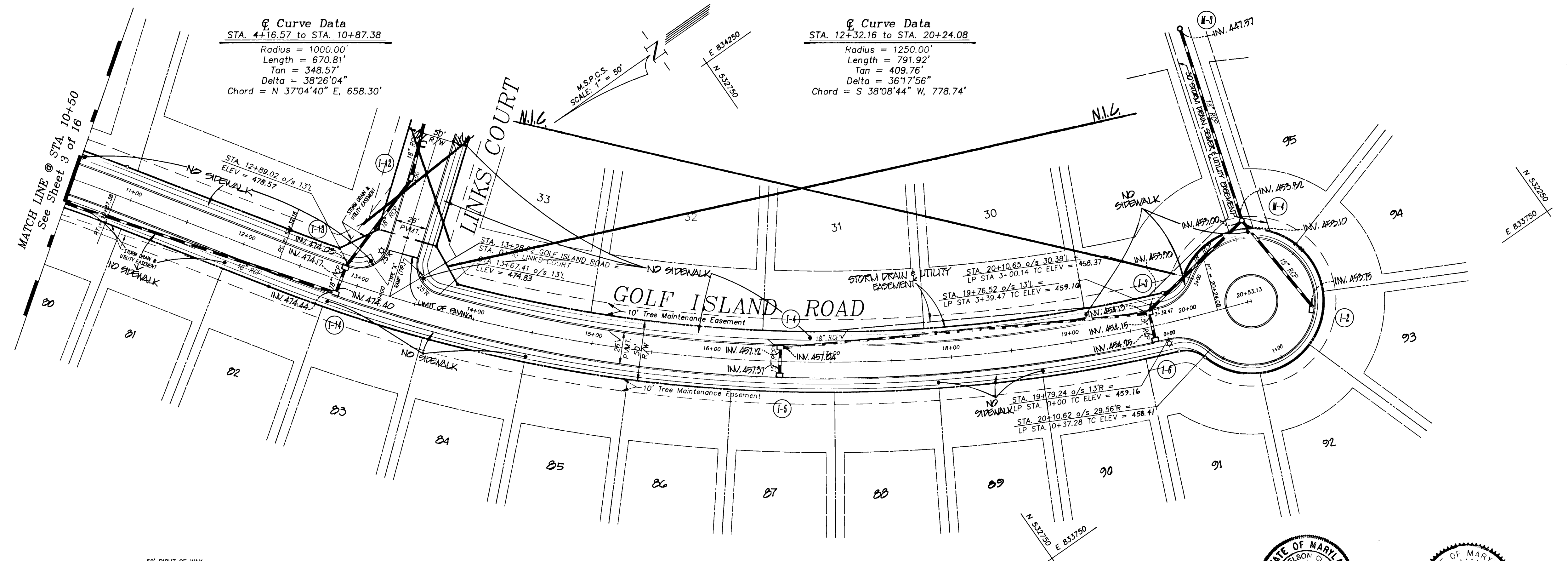
MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (410) 461-0078 D.C. Metro: (301) 621-5186 Fax: (410) 750-6340

Project	91012.03	Date	JULY '93
Illustration	YSL/LIG	Engineering	AMY
Scale	1" = 50'	Approval	RAM

Rev.	0	1	2	3
Description	1st SUBMITTAL TO HOWARD COUNTY D.P.Z.	REVISED TO 10.00 PER REVIEW COMMENTS	REVISED TO 10.00 PER REVIEW COMMENTS	REVISED TO 10.00 PER REVIEW COMMENTS
Date	7/26/93	9/17/93	10/1/93	10/1/93

PGCC-1 Subdistrict Parcel C Area 1-C
TURF VALLEY - PGCC-1
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND
GOLF ISLAND ROAD PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (410) 461-0079 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340



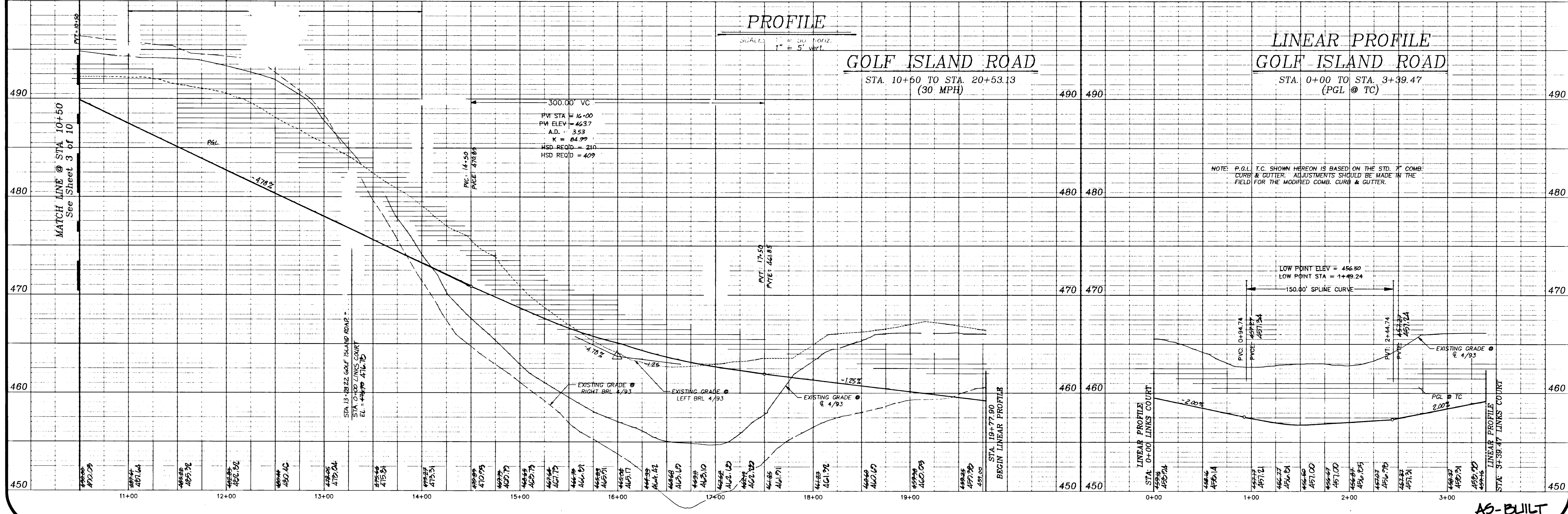
PLAN
 SCALE: 1" = 50'

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William M. Dando 5/20/94
 CHIEF, LAND DEVELOPMENT DIVISION
Robert M. Dando 5-13-94
 CHIEF, BUREAU OF HIGHWAYS
Donald E. Reppan 5/23/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Olivia Swannery 5/31/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

OWNER/DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 YORK ROAD - PENTHOUSE
 LUTHERVILLE, MARYLAND 21093
 (410) 825-8400
 ATTN: MR. LOUIS MANGIONE

ENGINEER
 MILDENBERG, MOCHI & ASSOC., INC.
 3300 North Ridge Road #235
 Ellicott City, Maryland 21043
 (301) 461-0078
 ATTN: MR. ROBERT M. MOCHI, P.E.

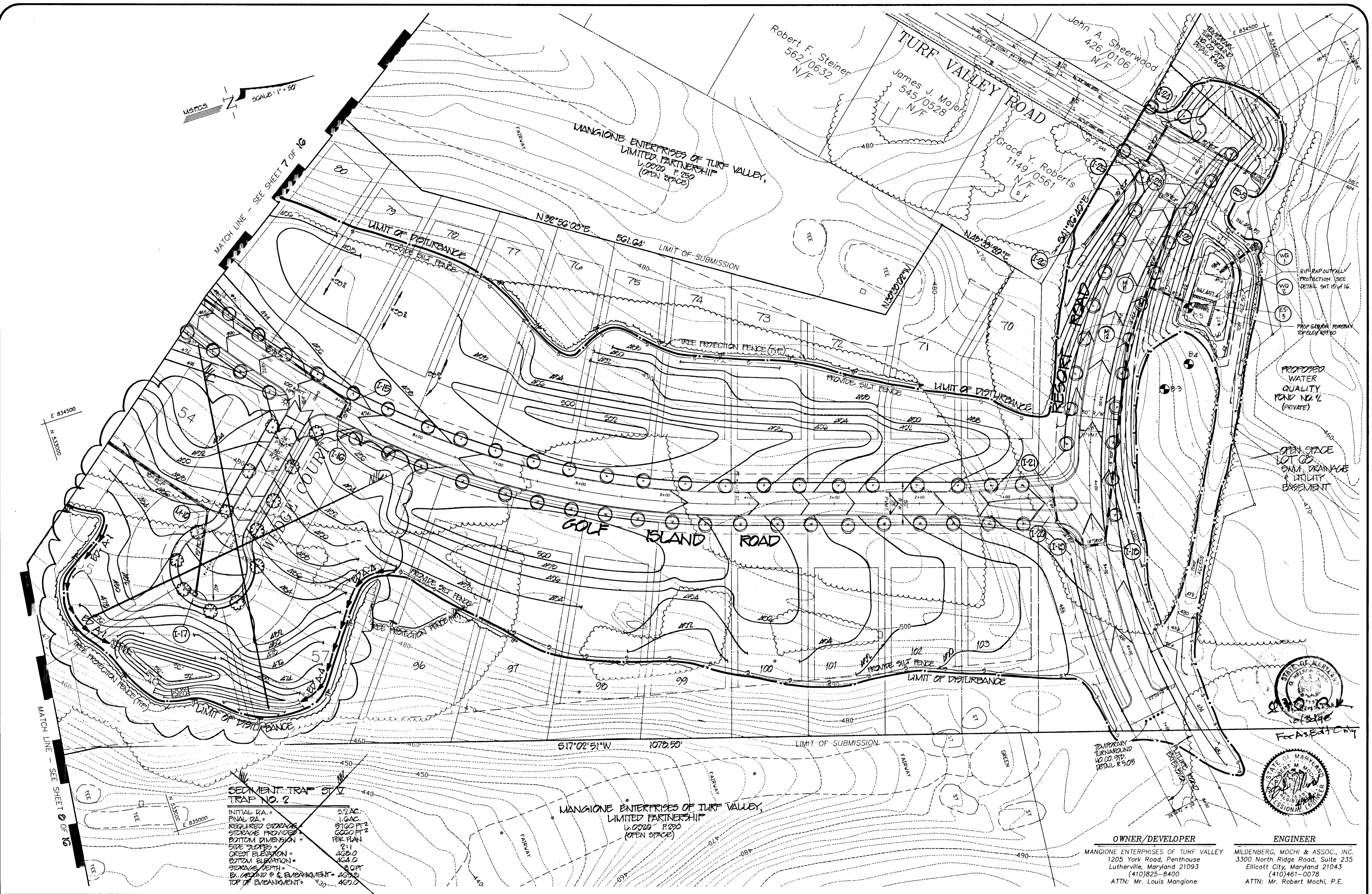


AS-BUILT

1695

1695

189027-00189027-06 SCBASE



SEDIMENT TRAP ST V TRAP NO. 2

INITIAL DA. = 2.72 AC.
 FINAL DA. = 1.6 AC.
 REQUIRED STORAGE = 8760 FT³
 STORAGE PROVIDED = 8000 FT³
 BOTTOM DIMENSION = 18 FT PLAN
 SIDE SLOPES = 2:1
 CREST ELEVATION = 465.0
 BOTTOM ELEVATION = 464.0
 STORAGE DEPTH = 8.0 FT
 EX. GRASS @ E. EMBANKMENT = 463.0
 TOP OF EMBANKMENT = 467.0

MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP
 L.0020 F.250
 (OPEN SPACE)

OWNER/DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 York Road, Penthouse
 Lutherville, Maryland 21093
 (410)825-8400
 ATTN: Mr. Louis Mangione

ENGINEER
 MILDENBERG, MOCHI & ASSOC., INC.
 3300 North Ridge Road, Suite 235
 Ellicott City, Maryland 21043
 (410)461-0078
 ATTN: Mr. Robert Mochi, P.E.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William J. Deane 5/24/94
 CHIEF, LAND RE-ALIGNMENT DIVISION

Andrew M. Danek 5-13-94
 CHIEF, BUREAU OF HIGHWAYS

Samuel P. Papp 5/23/94
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Olivia J. Jaramila 5/31/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

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

Robert W. Zich 5/19/94
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

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

Patricia Engler 5/19/94
 U. S. SOIL CONSERVATION SERVICE

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment 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.

Louis Mangione 5/24/94
 Signature of Developer Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.

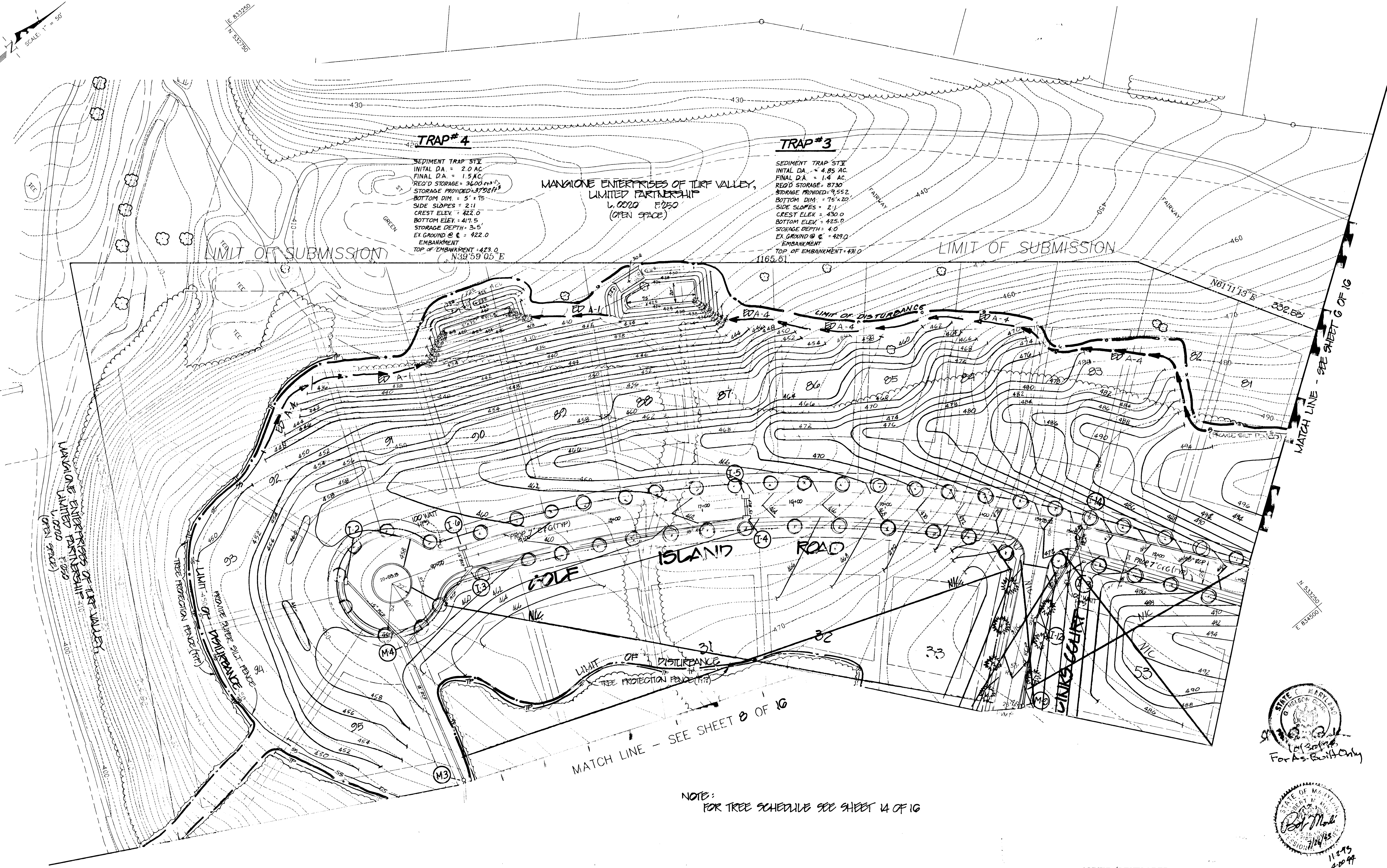
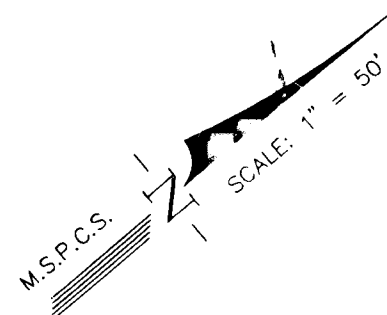
Robert Mochi 5/24/94
 Signature of Engineer Date

Project	date	BY	FOR
91012.03	JULY '93	AMY	RAM
illustration	engineering		
BLP	scale	1" = 50'	approval
2/19/94	2/17/94		
2/19/94	2/19/94		
11/9/93	11/9/93		
7/26/93	7/26/93		

NO. 1	DESCRIPTION	DATE
1	REVISED GRADING AND SEDIMENT CONTROL PLAN	7/26/93
2	REVISED GRADING AND SEDIMENT CONTROL PLAN	11/9/93
3	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
4	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
5	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
6	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
7	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
8	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
9	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94
10	REVISED GRADING AND SEDIMENT CONTROL PLAN	2/19/94

PGCC-1 Subdistrict Parcel C, Area 1-C
TURF VALLEY - PGCC-1
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND
GRADING & SEDIMENT CONTROL PLAN

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (410) 461-0079 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

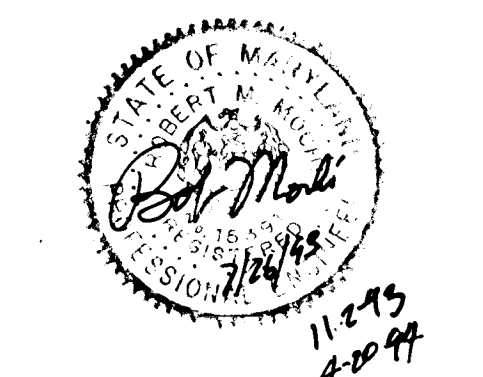


TRAP #4
 SEDIMENT TRAP STX
 INITIAL DA = 2.0 AC
 FINAL DA = 1.5 AC
 REQ'D STORAGE = 3600 cu yd
 STORAGE PROVIDED = 3700 cu yd
 BOTTOM DIM. = 5' x 75'
 SIDE SLOPES = 2:1
 CREST ELEV. = 422.0
 BOTTOM ELEV. = 417.5
 STORAGE DEPTH = 3.5'
 EX. GROUND @ E = 422.0
 EMBANKMENT
 TOP OF EMBANKMENT = 423.0
 N39°59'05" E

TRAP #3
 SEDIMENT TRAP STX
 INITIAL DA = 4.85 AC
 FINAL DA = 1.4 AC
 REQ'D STORAGE = 8730
 STORAGE PROVIDED = 9552
 BOTTOM DIM. = 75' x 20'
 SIDE SLOPES = 2:1
 CREST ELEV. = 430.0
 BOTTOM ELEV. = 425.0
 STORAGE DEPTH = 4.0
 EX. GROUND @ E = 429.0
 EMBANKMENT
 TOP OF EMBANKMENT = 431.0
 1165.81'

MANGIONE ENTERPRISES OF TURF VALLEY,
 LIMITED PARTNERSHIP
 L.0000 F250
 (OPEN SPACE)

NOTE:
 FOR TREE SCHEDULE SEE SHEET 14 OF 16



OWNER/DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 YORK ROAD, PENTHOUSE
 LUTHERVILLE, MARYLAND 21043
 (410) 825-8400
 ATTN: MR. LOUIS MANGIONE

ENGINEER
 MILDENBERG, MOCHI & ASSOCIATES, INC.
 3300 NORTH RIDGE ROAD, SUITE 235
 ELICOTT CITY, MARYLAND 21043
 (410) 461-0078
 ATTN: MR. ROBERT M. MOCHI, P.E.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 5/20/94
 [Signature] 5-13-94
 [Signature] 5/23/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 5/31/94

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 [Signature] 5/9/94

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] 5/9/94

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
 [Signature] 7/26/93

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment 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] 7-23-93

2695

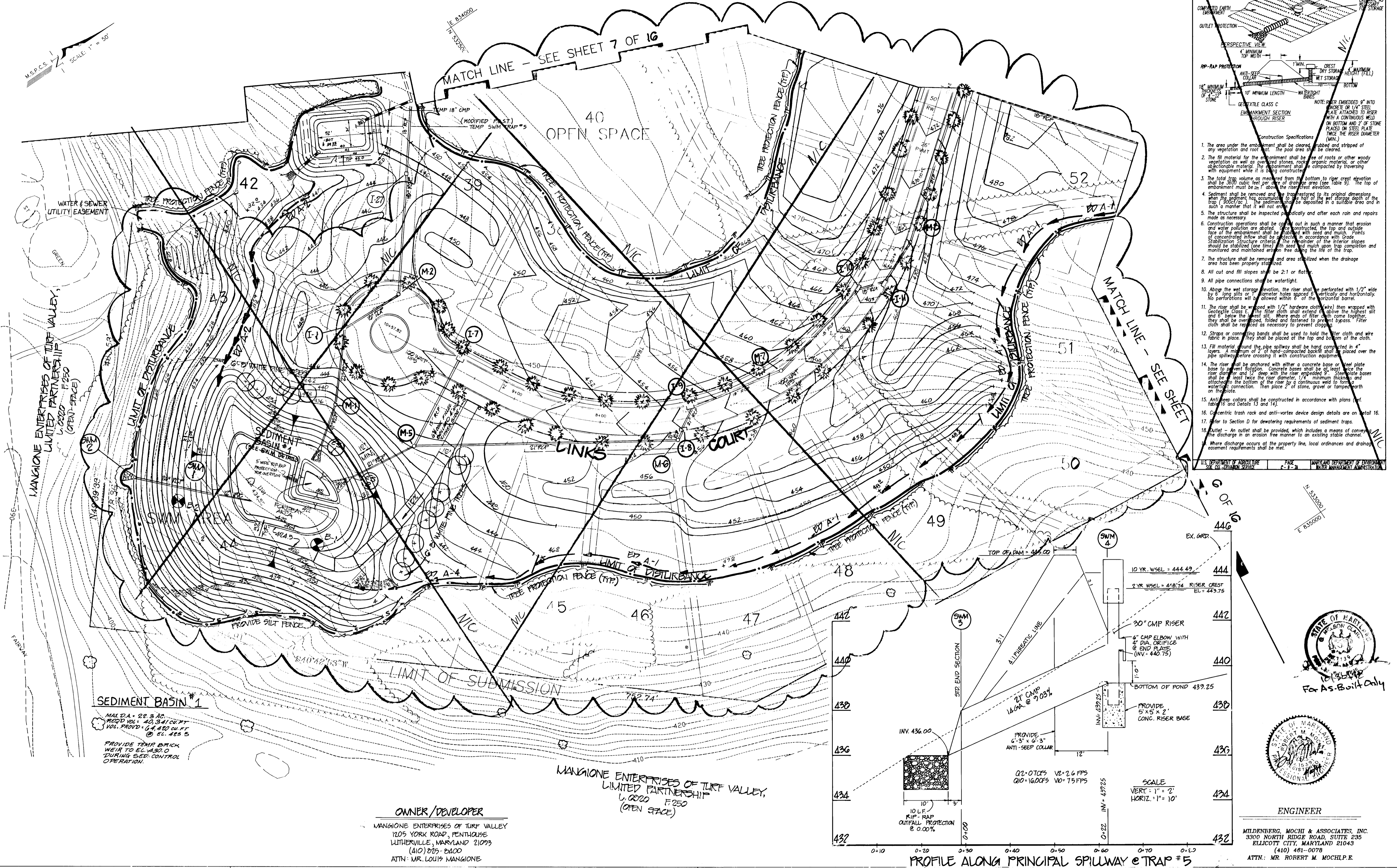
PROJECT:	91012.03	DATE:	JULY '93
ILLUSTRATION:	PLAN	ENGINEERING:	ENGINEERING
SCALE:	1" = 50'	APPROVAL:	APPROVAL

NO.	DATE	DESCRIPTION
1	6/2/97	ADD BOUNDARY OVERLAP WITH 91-107
2	6/11/94	REVISED GRADING
3	2/19/94	ADD SUBMITTAL TO HD CO PER 12/15/93 COMMENTS
4	11/2/93	ADD SUBMITTAL TO HD CO PER 12/15/93 COMMENTS
5	7/20/93	ADD SUBMITTAL TO HD CO PER 12/15/93 COMMENTS

PGCC-1 Subdistrict Parcel C, Area 1-C
TURF VALLEY - PGCC-1
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND
GRADING & SEDIMENT CONTROL PLAN

MILDENBERG, MOCHI & ASSOCIATES, INC.
 3300 North Ridge Road, Suite 235, Elicott City, Maryland, 21043-3350
 (410) 461-0078 D.C. Metro (301) 627-5768 Fax: (410) 750-6340

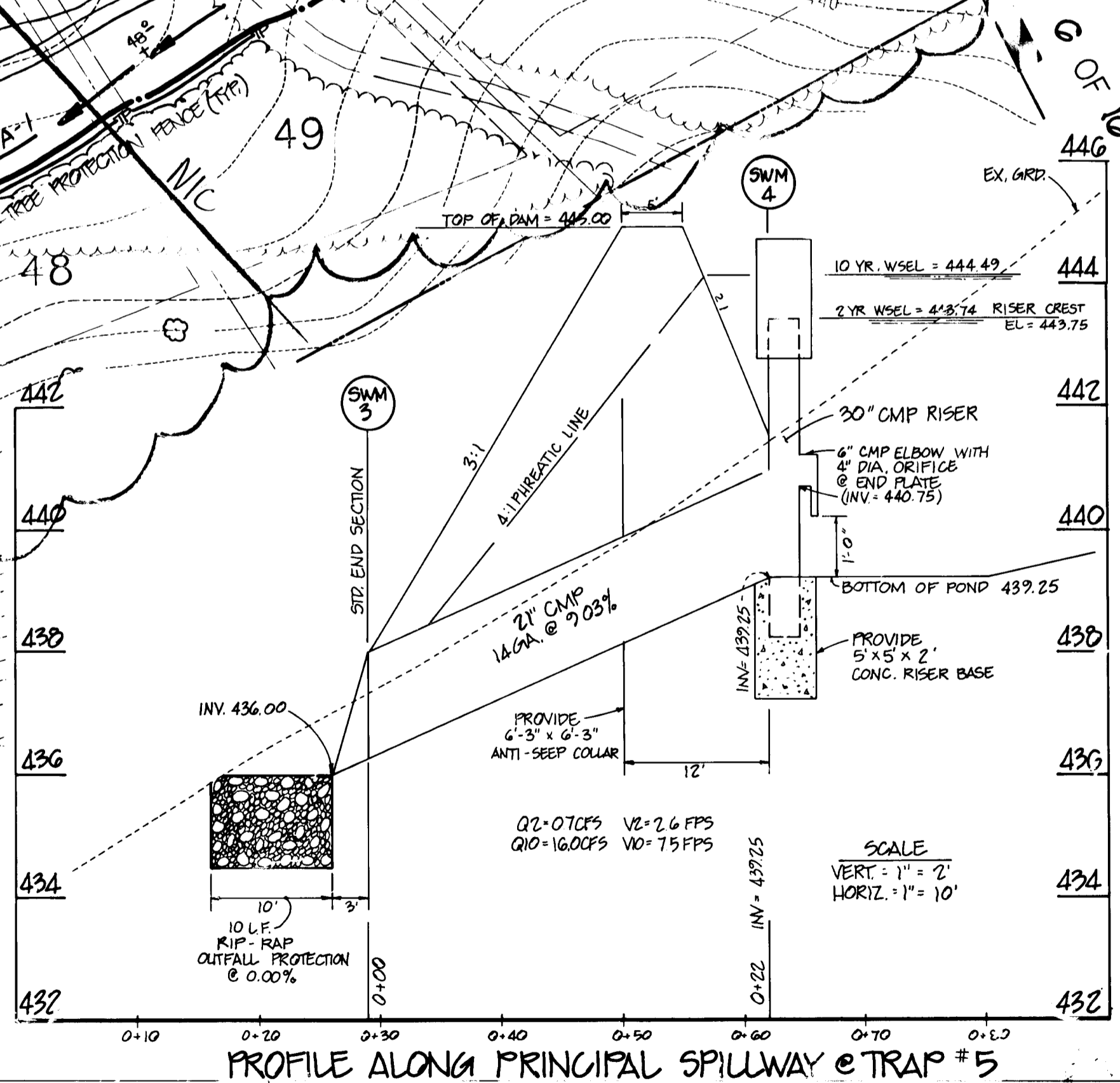
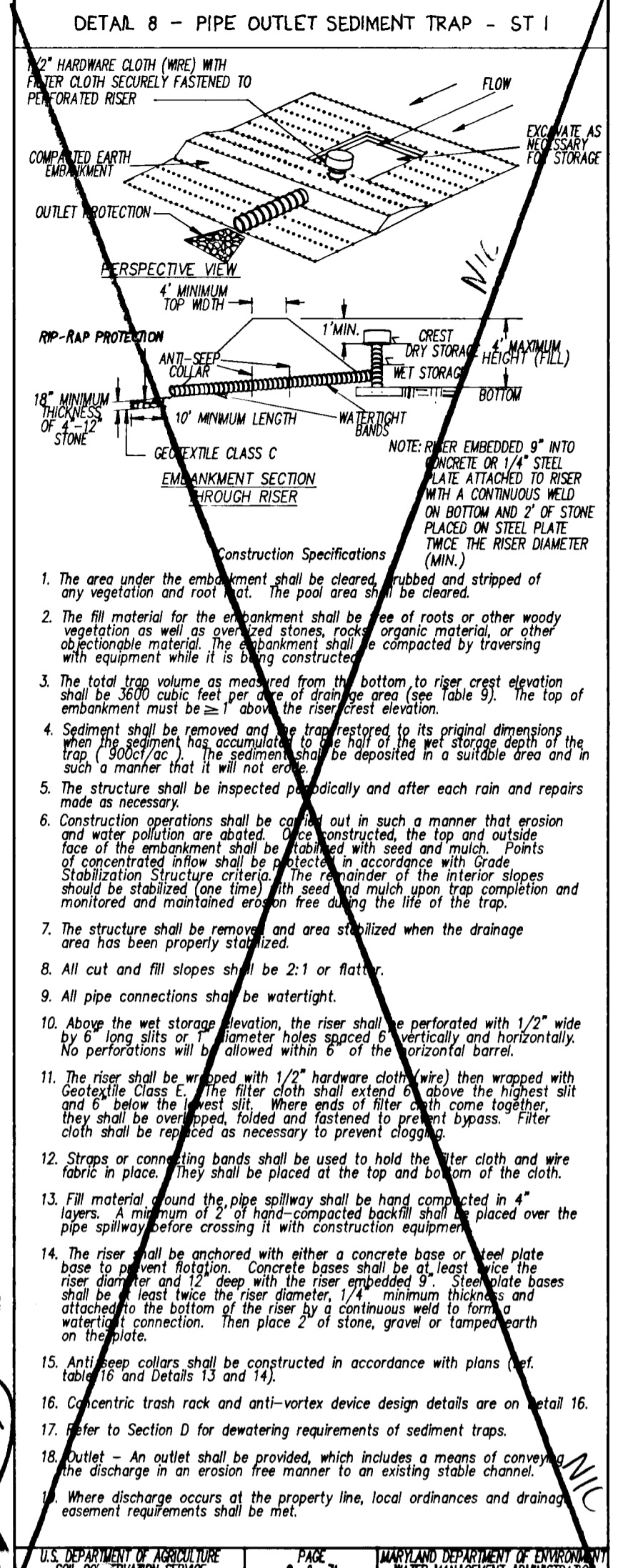
M.S.P. C.S. 1
SCALE: 1" = 50'



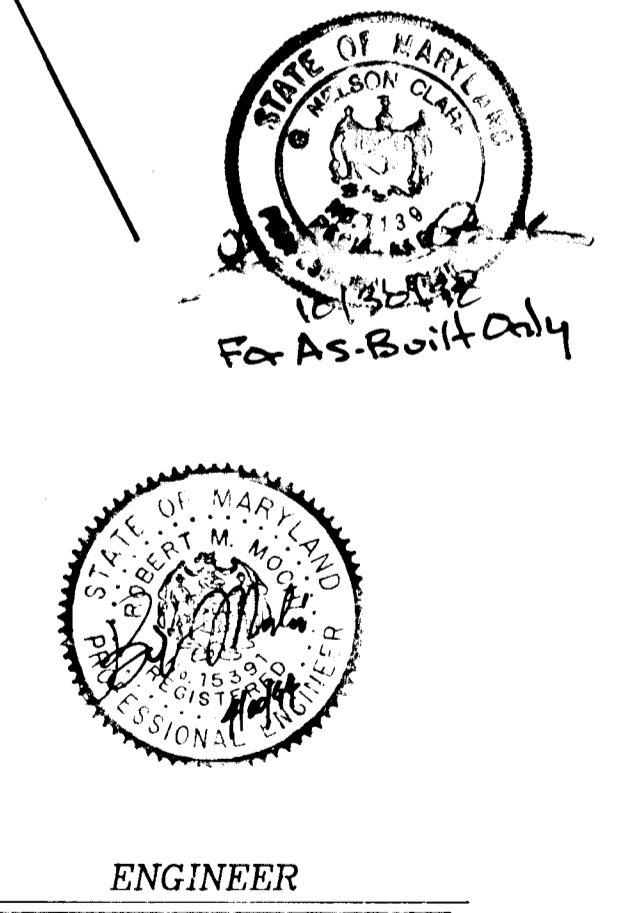
SEDIMENT BASIN #1
MAX DA = 22.3 AC
REQD VOL = 40,341 CU FT
VOL. PROVIDED = 44,480 CU FT
@ 55.465 5
PROVIDE TEMP BRICK WEIR TO EL. 432.0 DURING SED. CONTROL OPERATION.

OWNER/DEVELOPER
MANGIONE ENTERPRISES OF TURF VALLEY
1205 YORK ROAD, PENTHOUSE
LUTHERVILLE, MARYLAND 21093
(410) 275-2600
ATTN: MR. LOUIS MANGIONE

MANGIONE ENTERPRISES OF TURF VALLEY
LIMITED PARTNERSHIP
1,000 F250
(OPEN SPACE)



- Construction Specifications
- The area under the embankment shall be cleared, grubbed and stripped of any vegetation and roots. The soil shall be compacted.
 - The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rock, organic material, or other objectionable material. The embankment shall be compacted by troweling with equipment while it is being constructed.
 - The total trap volume as measured from the bottom to riser crest elevation shall be 400 cubic feet per acre of drainage area (see Table 8). The top of embankment must be $\geq 1'$ above the riser crest elevation.
 - Sediment shall be removed and the trap restored to its original dimensions after 100% of the trap has been installed. The sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 - The structure shall be inspected periodically and after each rain and repairs made as necessary.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are abated. Erosion control measures shall be installed on the top of the embankment. The structure shall be protected with Grade Stabilization Structures criteria. The remainder of the interior slopes should be stabilized (one time) and shall be maintained until trap completion and monitored and maintained erosion free during the life of the trap.
 - The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
 - All cut and fill slopes shall be 2:1 or flatter.
 - All pipe connections shall be watertight.
 - Above the well storage elevation, the riser shall be perforated with 1/2" wide by 6" long slots or 1/2" diameter holes spaced 6" vertically and horizontally. No perforations will be allowed within 6" of the horizontal barrier.
 - The riser shall be wrapped with 1/2" hardware cloth (wire) then wrapped with Geotextile Class C. The filter cloth shall extend 6" above the highest silt and 6" below the lowest silt. Where ends of filter cloth come together, filter cloth shall be overlapped, fastened and fastened to prevent bypass. Filter cloth shall be replaced as necessary to prevent clogging.
 - Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
 - Fill material around the pipe spillway shall be hand compacted in a minimum of 2' of hand-compacted base and shall be placed over the pipe spillway before crossing it with construction equipment.
 - The riser shall be anchored with either a concrete base or steel plate base to prevent rotation. Concrete bases shall be at least twice the riser diameter and 1/2" deep with the riser embedded 3". Steel plate bases shall be at least twice the riser diameter, 1/4" minimum thickness and attached to the bottom of the riser by a continuous weld to form a watertight connection. Then place 2" of stone, gravel or tamper with on the plate.
 - Anti-seep collars shall be constructed in accordance with plans (see Table 8 and details 13 and 14).
 - Geometric trash rack and anti-vortex device design details are on detail 16.
 - Refer to Section D for detailing requirements of sediment traps.
 - Outlet - An outlet shall be provided, which includes a means of conveying the discharge in an erosion free manner to an existing stable channel.
 - Where discharge occurs at the property line, local ordinances and drainage easement requirements shall be met.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chlor Danvers 5/23/94
 CHIEF, LAND USE & PLANNING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Quina Summery 5/31/94
 LAND DEVELOPMENT & RESEARCH

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Robert W. Zickel 5/19/94
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Patricia Engler JCS 5/19/94
 DISTRICT ENGINEER

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
Robert Mochi
 REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment 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.
Robert Mochi
 Signature of Developer
 4.20.94
 Date

DATE: JULY 98
 91012.03
 ENGINEERING: [Signature]
 ILLUSTRATION: [Signature]
 SCALE: 1" = 50'
 APPROVAL: [Signature]

REVISIONS
 NO. DESCRIPTION
 1. [Signature] 11/11/94
 2. [Signature] 11/11/94
 3. [Signature] 11/11/94
 4. [Signature] 11/11/94

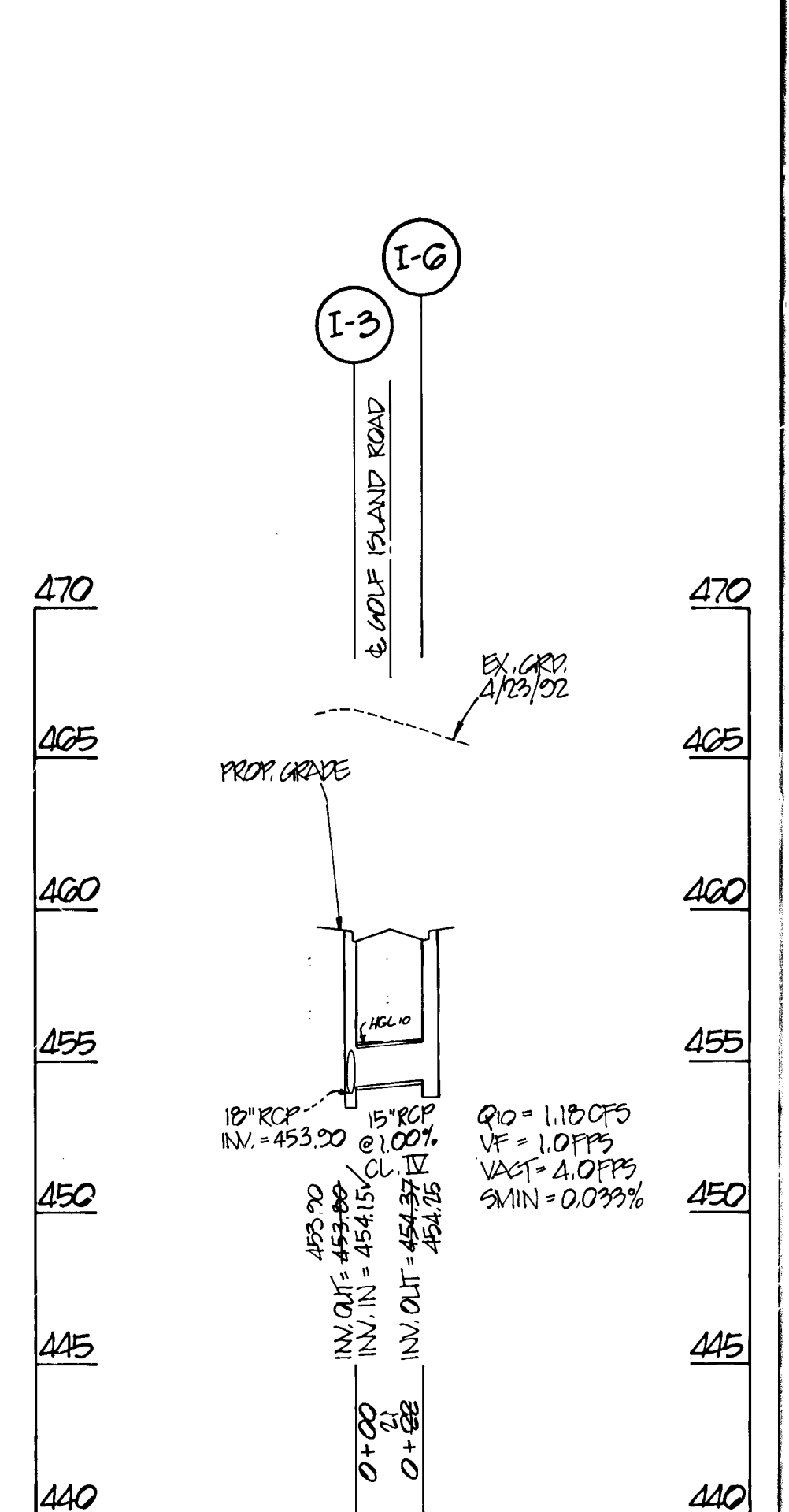
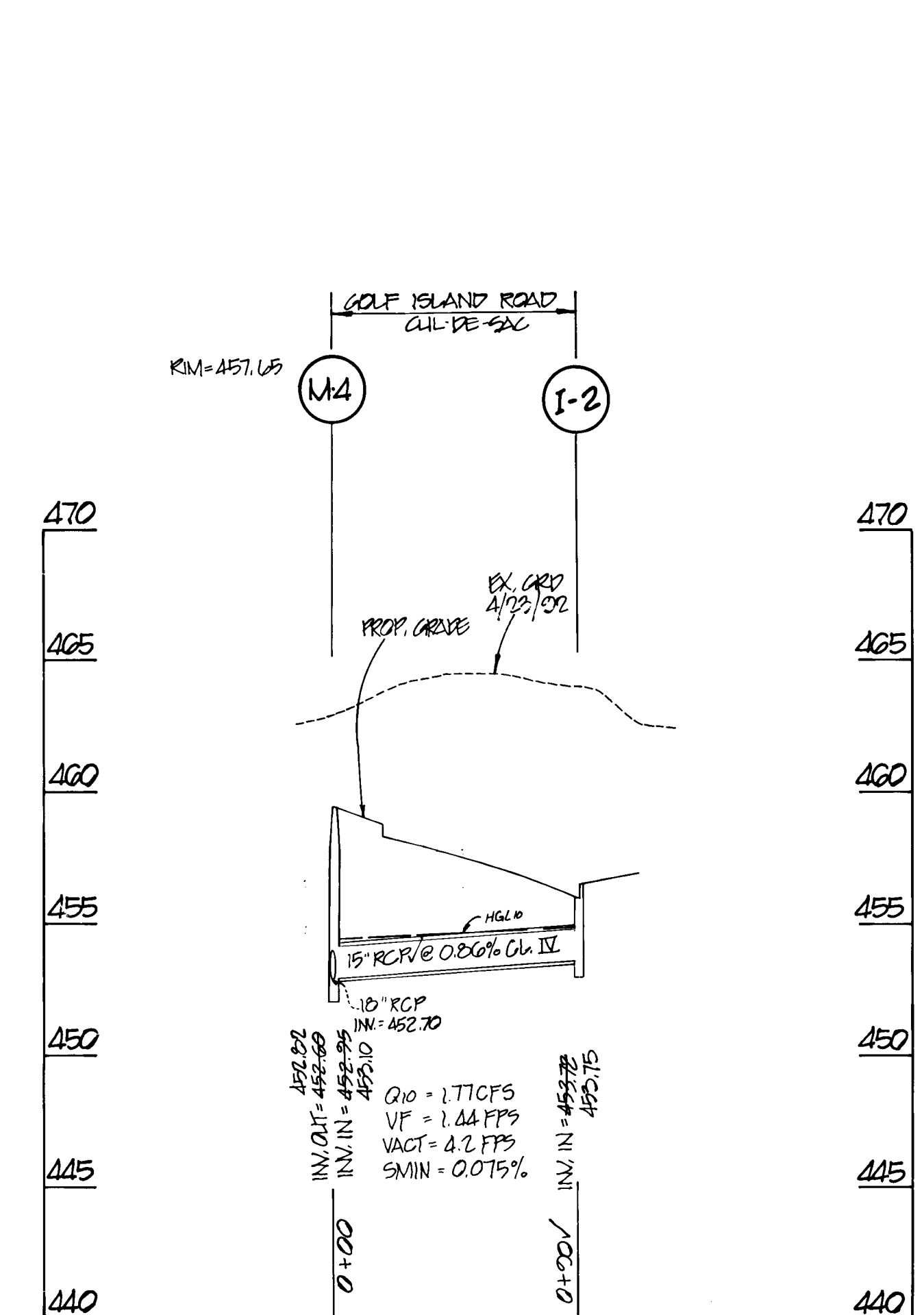
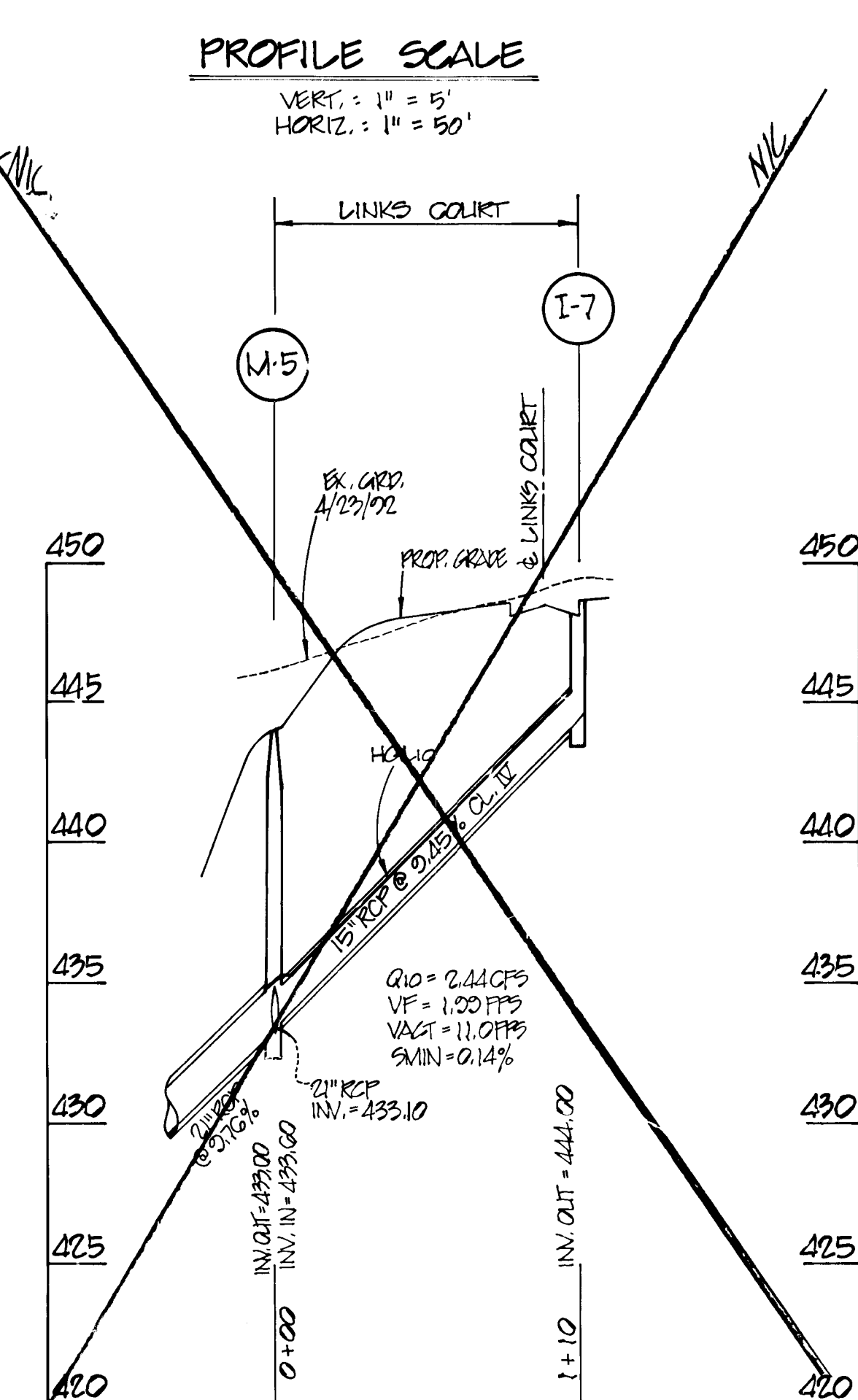
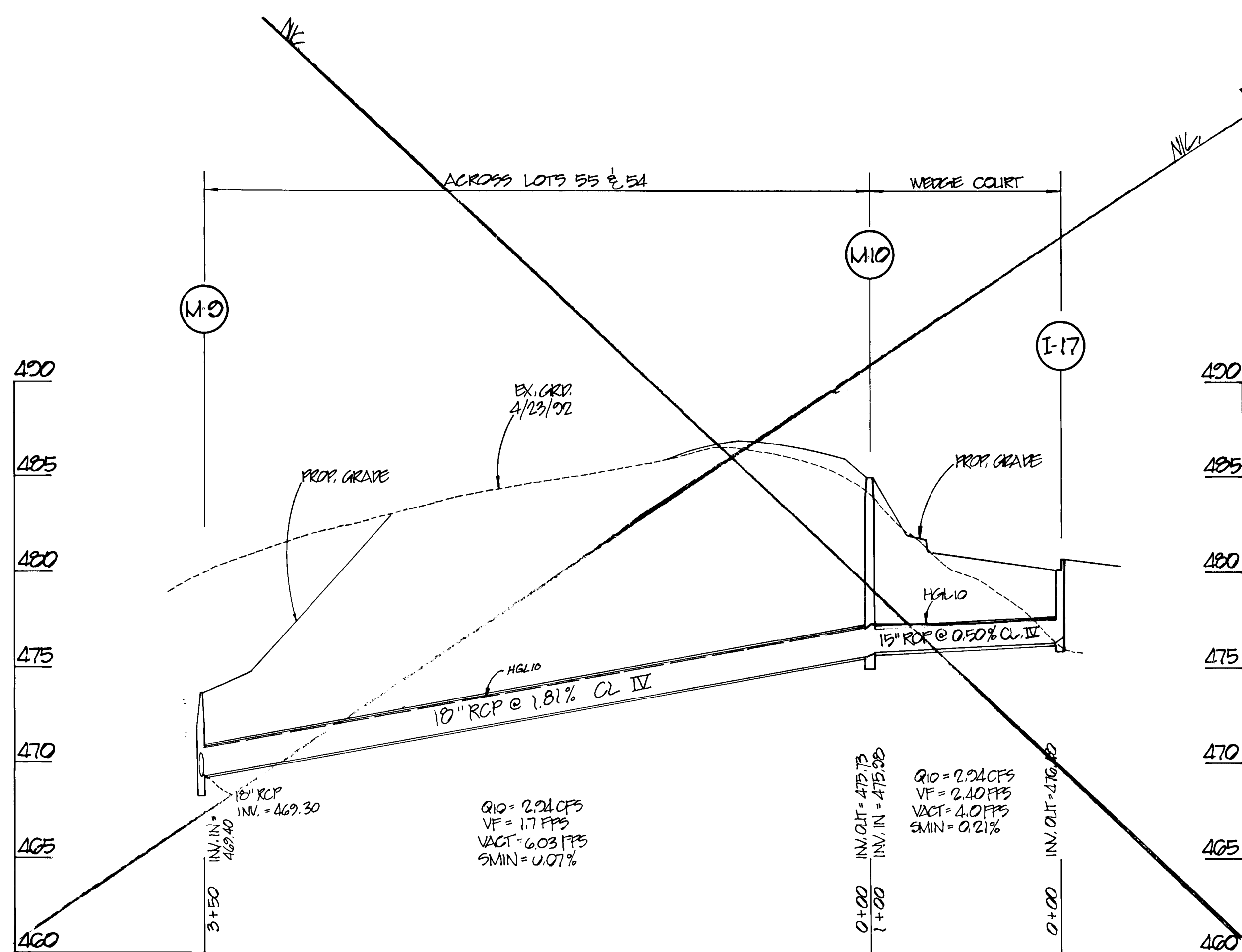
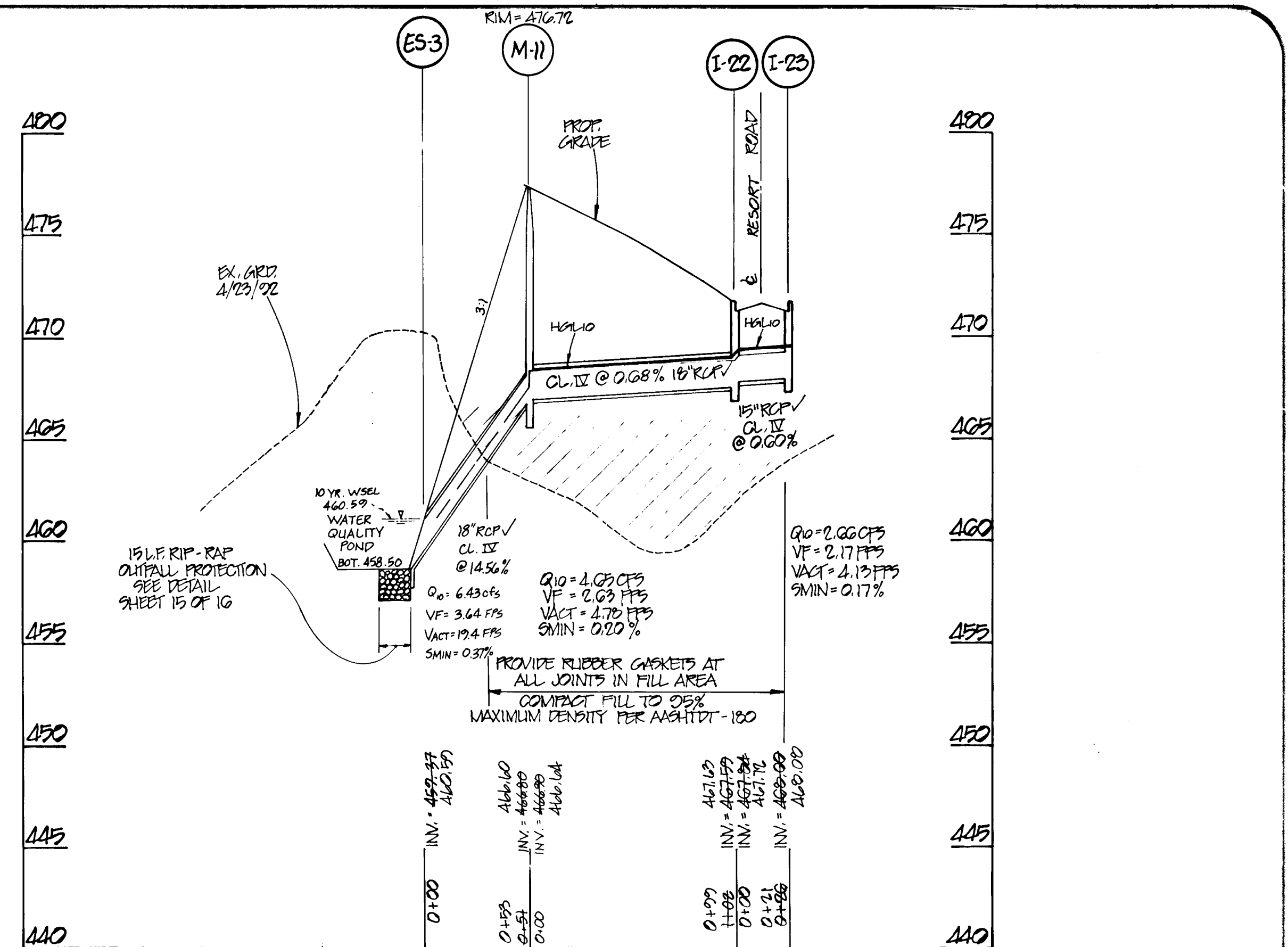
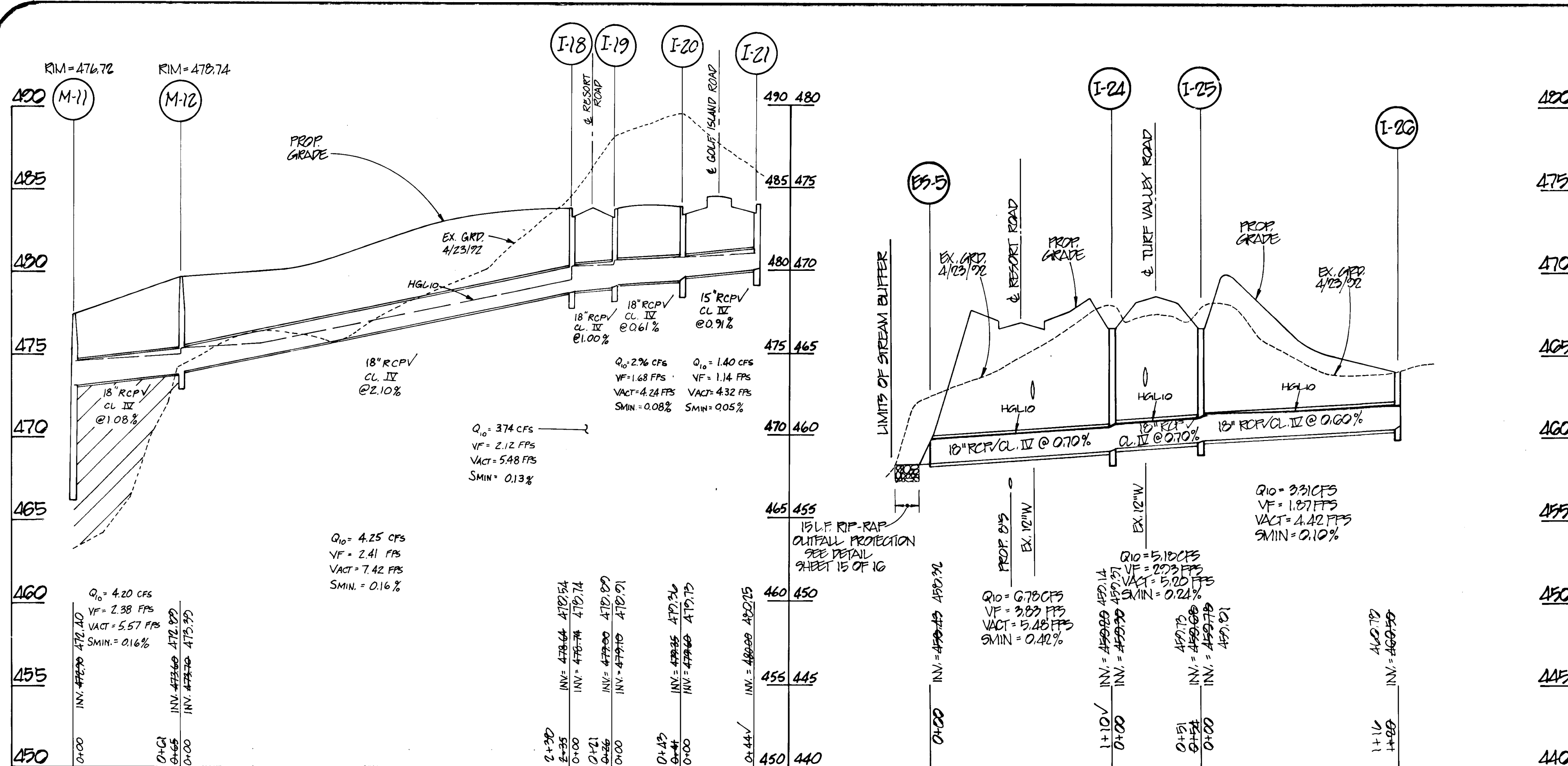
PGCC-1 Subdistrict Parcel C, Area 1-C
TURF VALLEY - PGCC-1
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND
GRADING & SEDIMENT CONTROL PLAN

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS
 3300 NORTH RIDGE ROAD, SUITE 235
 ELLICOTT CITY, MARYLAND 21043-3350
 (410) 461-0078
 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

1695

AS-BUILT

F-94-06



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

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Abdu Dawood 5/21/94
Andrew M. Dancake 5-13-94
Donald J. Sporn 5/23/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

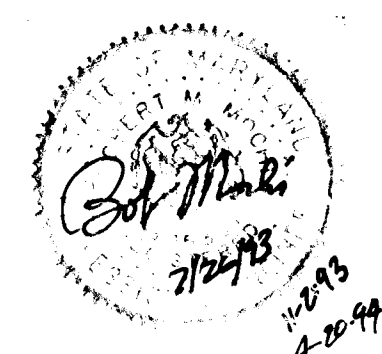
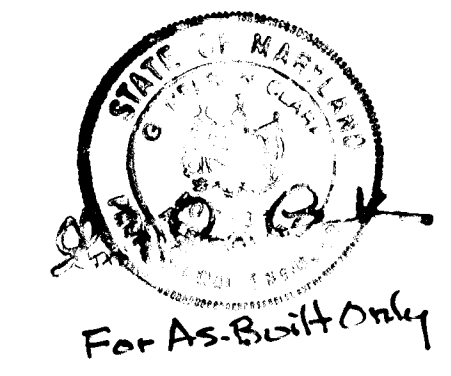
Uma Jaramany 5/31/94
LAND DEVELOPMENT & RESEARCH, INC.

OWNER/DEVELOPER

MANCIONE ENTERPRISES OF THE VALLEY
1205 YORK ROAD, PENTHOUSE
LUTHERVILLE, MARYLAND 21083
(410) 825-8400
ATTN: MR. LOUIS MANCIONE

ENGINEER

MUNSHOFF, VOCH & ASSOCIATES, INC.
3300 NORTH BUCKLE ROAD, SUITE 235
ELICOTT CITY, MARYLAND 21043
(410) 301-0076
ATTN: MR. ROBERT M. MUEHLER



For As-Built Only

AS-BUILT

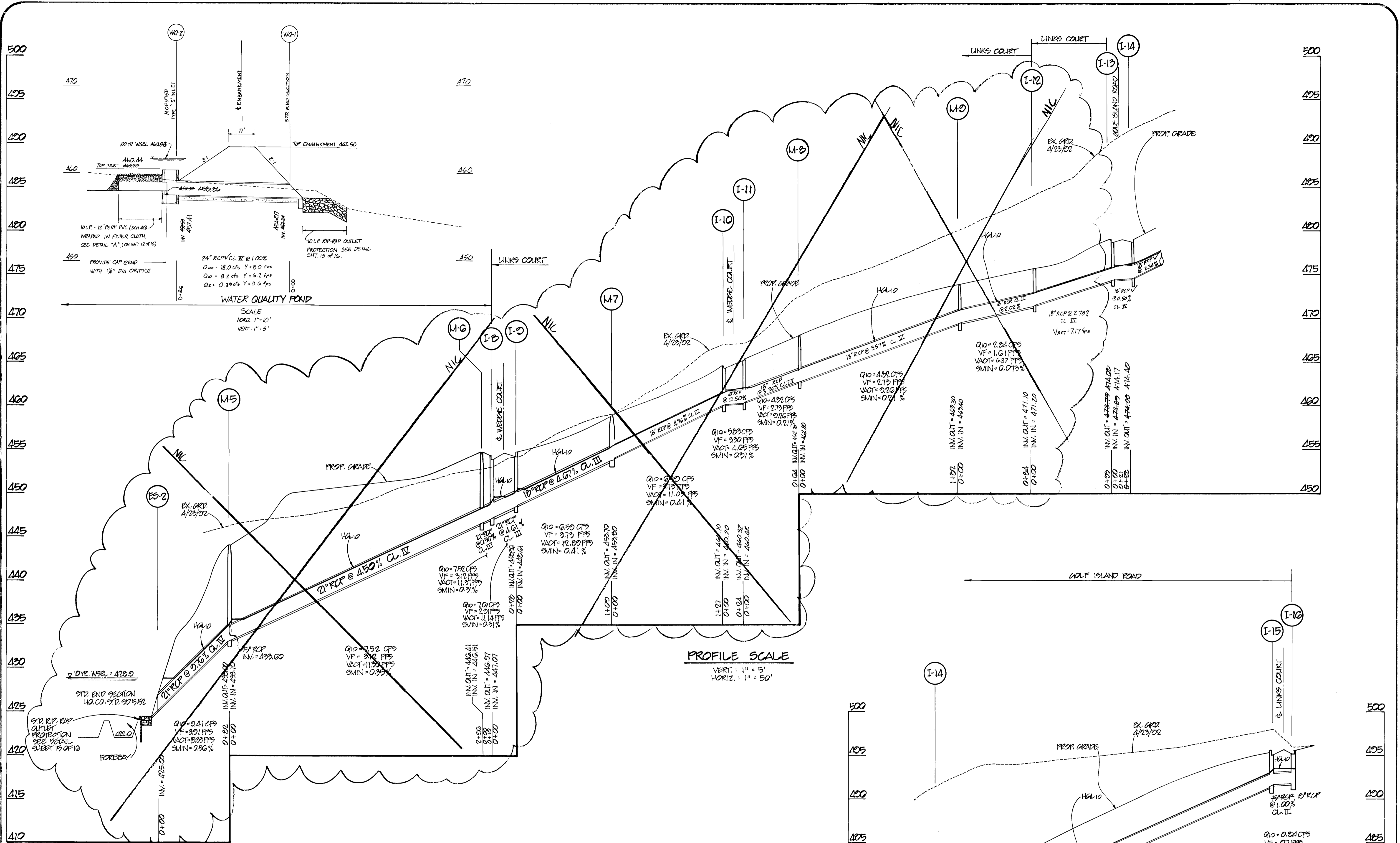
DATE: 5/23/94
DRAWN BY: CAM/TP
CHECKED BY: AS/STG/AN/XX

1. RED LINE: REVISIONS TO PREVIOUS EDITIONS.
2. REVISIONS TO PREVIOUS EDITIONS.
3. REVISIONS TO PREVIOUS EDITIONS.
4. REVISIONS TO PREVIOUS EDITIONS.
5. REVISIONS TO PREVIOUS EDITIONS.
6. REVISIONS TO PREVIOUS EDITIONS.

STORM DRAIN PROFILES
VALLEY - PGCC-1
HOWARD COUNTY, MARYLAND
PROJECT NUMBER: 94-1

IDE, INC.
VALLEY ASSOCIATES, INC.
112248
5/23/94

5695



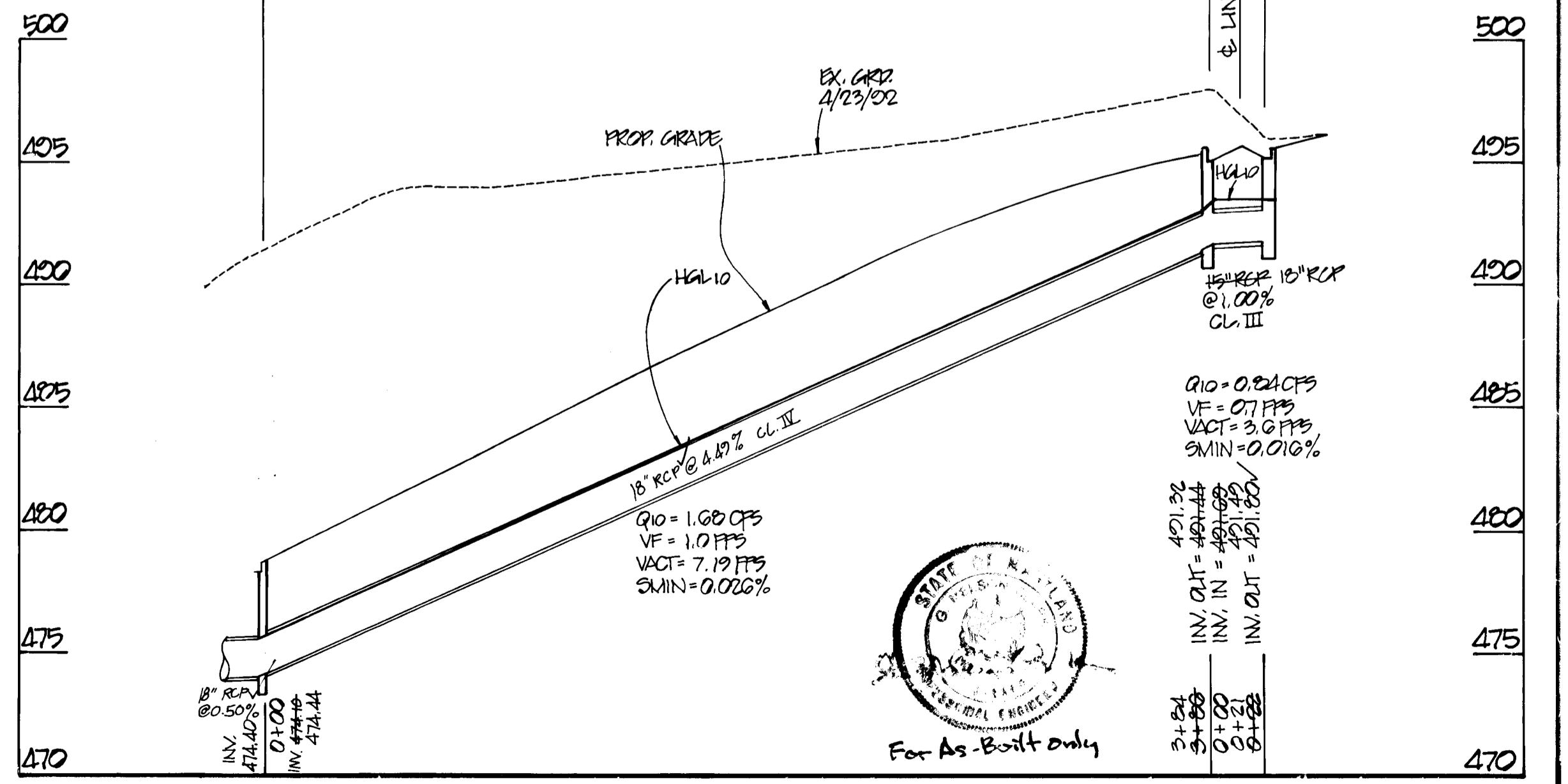
1695

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Abel Damico 5/20/14
Andrew M. Donale 5-13-99
Paul J. Larson 5/23/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Gina Surinmani 5/31/14

OWNER/DEVELOPER
 MANGIONE ENTERPRISES OF TURF VALLEY
 1205 YORK ROAD, PENTHOUSE
 LUTHERVILLE, MARYLAND 21093
 (410) 825-8400
 ATTN: MR. LOUIS MANGIONE

ENGINEER
 MILDENBERG MOCH & ASSOCIATES, INC.
 3300 NORTH RIDGE ROAD, SUITE 235
 ELLICOTT CITY, MARYLAND 21043
 (410) 481-0078
 ATTN: MR. ROBERT M. MOCH, P.E.



DATE: 5/20/14
 DRAWN BY: BLP
 CHECKED BY: JMS
 PROJECT: TURF VALLEY - PGCC-1

REVISIONS:
 1. 5/20/14: REVISED PER COMMENTS
 2. 5/20/14: REVISED PER COMMENTS
 3. 5/20/14: REVISED PER COMMENTS
 4. 5/20/14: REVISED PER COMMENTS

PGCC-1 Subdistrict Parcel C, Area 1-C
 TURF VALLEY - PGCC-1
 WASHINGTON DISTRICT No. 2
 HOWARD COUNTY, MARYLAND

MILDENBERG MOCH & ASSOCIATES, INC.
 3300 NORTH RIDGE ROAD, SUITE 235
 ELLICOTT CITY, MARYLAND 21043
 (410) 481-0078

AS-BUILT

F-94-06