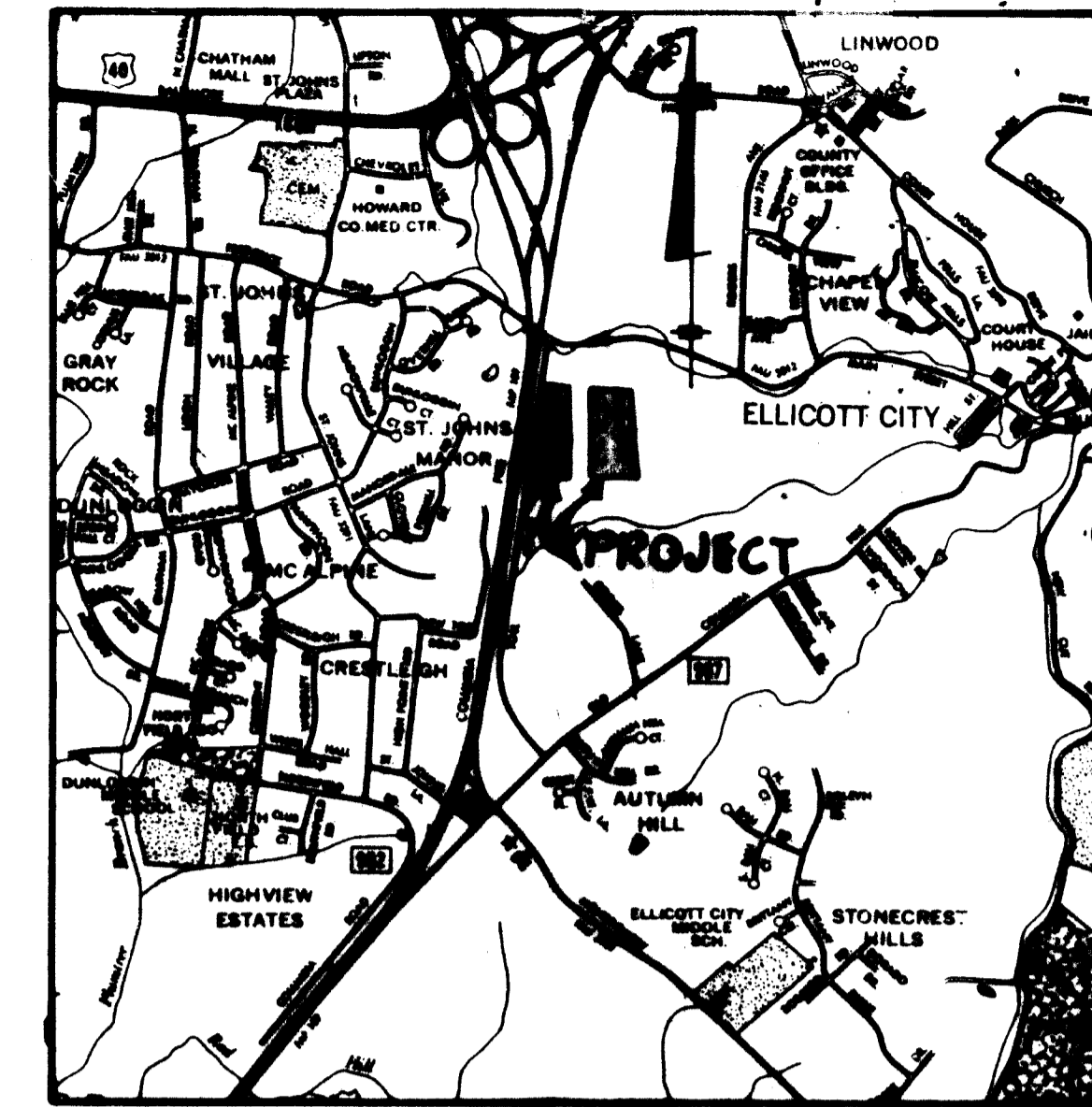


SITE DEVELOPMENT PLAN TOLL HOUSE SECTION ONE 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

SHEET INDEX	
DESCRIPTION	
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT CONTROL-DRAINAGE AREA
5	STORM PROFILE & DETAILS
6	WATER & SEWER PROFILED
7	PLANTING PLAN
8	PLANTING PLAN

GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- CONCRETE STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERPROOF IMPROVING GASKET. SINGLE BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

WISS UTILITY	559-0100
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AVT CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT \bigcirc - ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SURFACE.
- TOPO TAKEN FROM FIELD SURVEY DATED MARCH 5, 1988 BY THE RIEMER GROUP, INC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE SIZING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4 IN VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

DENSITY TABULATIONS

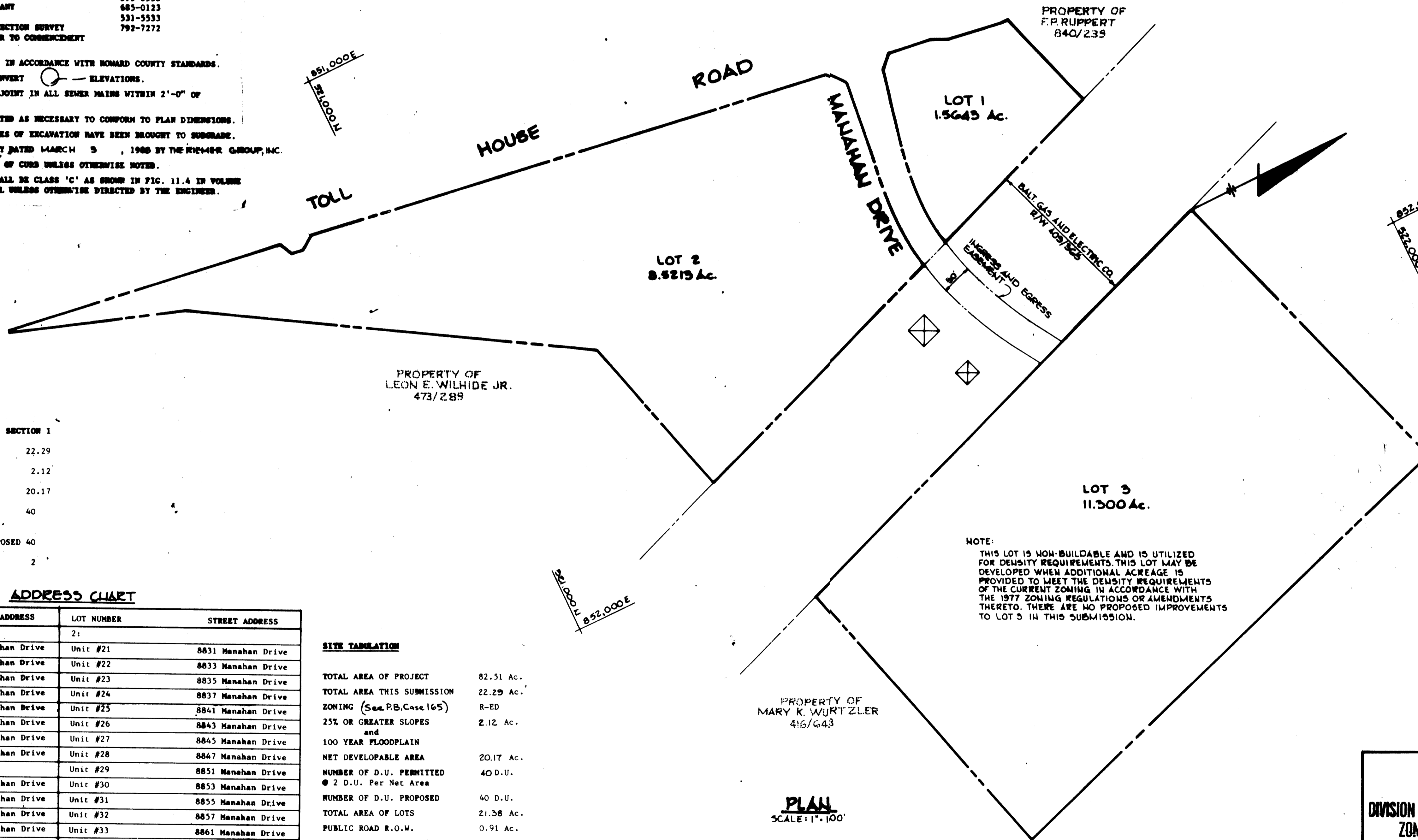
SECTION 1	
1. GROSS AREA	22.29
2. FLOODPLAIN/STEEP SLOPES	2.12
3. NET AREA	20.17
4. NO. OF DWELLING UNITS ALLOWED (Based on Net Area)	40
5. TOTAL NO. OF DWELLING UNITS PROPOSED	40
6. DENSITY PER ACRE	2

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
1:		2:	
Unit #1	8816 Manahan Drive	Unit #21	8831 Manahan Drive
Unit #2	8814 Manahan Drive	Unit #22	8833 Manahan Drive
Unit #3	8812 Manahan Drive	Unit #23	8835 Manahan Drive
Unit #4	8810 Manahan Drive	Unit #24	8837 Manahan Drive
Unit #5	8808 Manahan Drive	Unit #25	8841 Manahan Drive
Unit #6	8804 Manahan Drive	Unit #26	8843 Manahan Drive
Unit #7	8802 Manahan Drive	Unit #27	8845 Manahan Drive
Unit #8	8800 Manahan Drive	Unit #28	8847 Manahan Drive
2:		Unit #29	8851 Manahan Drive
Unit #9	8801 Manahan Drive	Unit #30	8853 Manahan Drive
Unit #10	8803 Manahan Drive	Unit #31	8855 Manahan Drive
Unit #11	8805 Manahan Drive	Unit #32	8857 Manahan Drive
Unit #12	8807 Manahan Drive	Unit #33	8861 Manahan Drive
Unit #13	8811 Manahan Drive	Unit #34	8863 Manahan Drive
Unit #14	8813 Manahan Drive	Unit #35	8865 Manahan Drive
Unit #15	8815 Manahan Drive	Unit #36	8867 Manahan Drive
Unit #16	8817 Manahan Drive	Unit #37	8871 Manahan Drive
Unit #17	8821 Manahan Drive	Unit #38	8873 Manahan Drive
Unit #18	8823 Manahan Drive	Unit #39	8875 Manahan Drive
Unit #19	8825 Manahan Drive	Unit #40	8877 Manahan Drive
Unit #20	8827 Manahan Drive		

SITE TABULATION

TOTAL AREA OF PROJECT	82.51 Ac.
TOTAL AREA THIS SUBMISSION	22.29 Ac.
ZONING (See P.B. Case 165)	R-ED
25% OR GREATER SLOPES and 100 YEAR FLOODPLAIN	2.12 Ac.
NET DEVELOPABLE AREA	20.17 Ac.
NUMBER OF D.U. PERMITTED @ 2 D.U. Per Net Area	40 D.U.
NUMBER OF D.U. PROPOSED	40 D.U.
TOTAL AREA OF LOTS	21.58 Ac.
PUBLIC ROAD R.O.W.	0.91 Ac.
OPEN SPACE REQUIRED (20%)	2.198 Ac.
OPEN SPACE PROPOSED (27.2%)	20796 S.F.
BUILDING COVERAGE	25,600 S.F. (5%)
PARKING REQUIRED @ 2 spaces per D.U.	80 Spaces
PARKING PROPOSED	83 Spaces



NOTE:
THIS LOT IS NON-BUILDABLE AND IS UTILIZED FOR DENSITY REQUIREMENTS. THIS LOT MAY BE DEVELOPED WHEN ADDITIONAL ACREAGE IS PROVIDED TO MEET THE DENSITY REQUIREMENTS OF THE CURRENT ZONING IN ACCORDANCE WITH THE 1977 ZONING REGULATIONS OR AMENDMENTS THERETO. THERE ARE NO PROPOSED IMPROVEMENTS TO LOT 3 IN THIS SUBMISSION.

PROPERTY OF MARY K. WURTZLER
416/643

PLAN
SCALE: 1"=100'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
[Signature] 4-29-85
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] 4-30-85
PLANNING DIRECTOR DATE

[Signature] 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 4-24-85
DIRECTOR DATE

[Signature] 4-24-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER: DOROTHY W. MANAHAN
5060 UPTON ROAD
ELICOTT CITY, MARYLAND 21043

DEVELOPER: MANGIONE FAMILY ENTERPRISES
1205 YORK ROAD (PENTHOUSE)
LUTHERVILLE, MD 21058

PROJECT: **TOLL HOUSE**
(SECTION ONE), LOTS 1 & 2

AREA TAX MAP NO 24 PARCEL 254
2nd ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE: **TITLE SHEET**

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-3-84

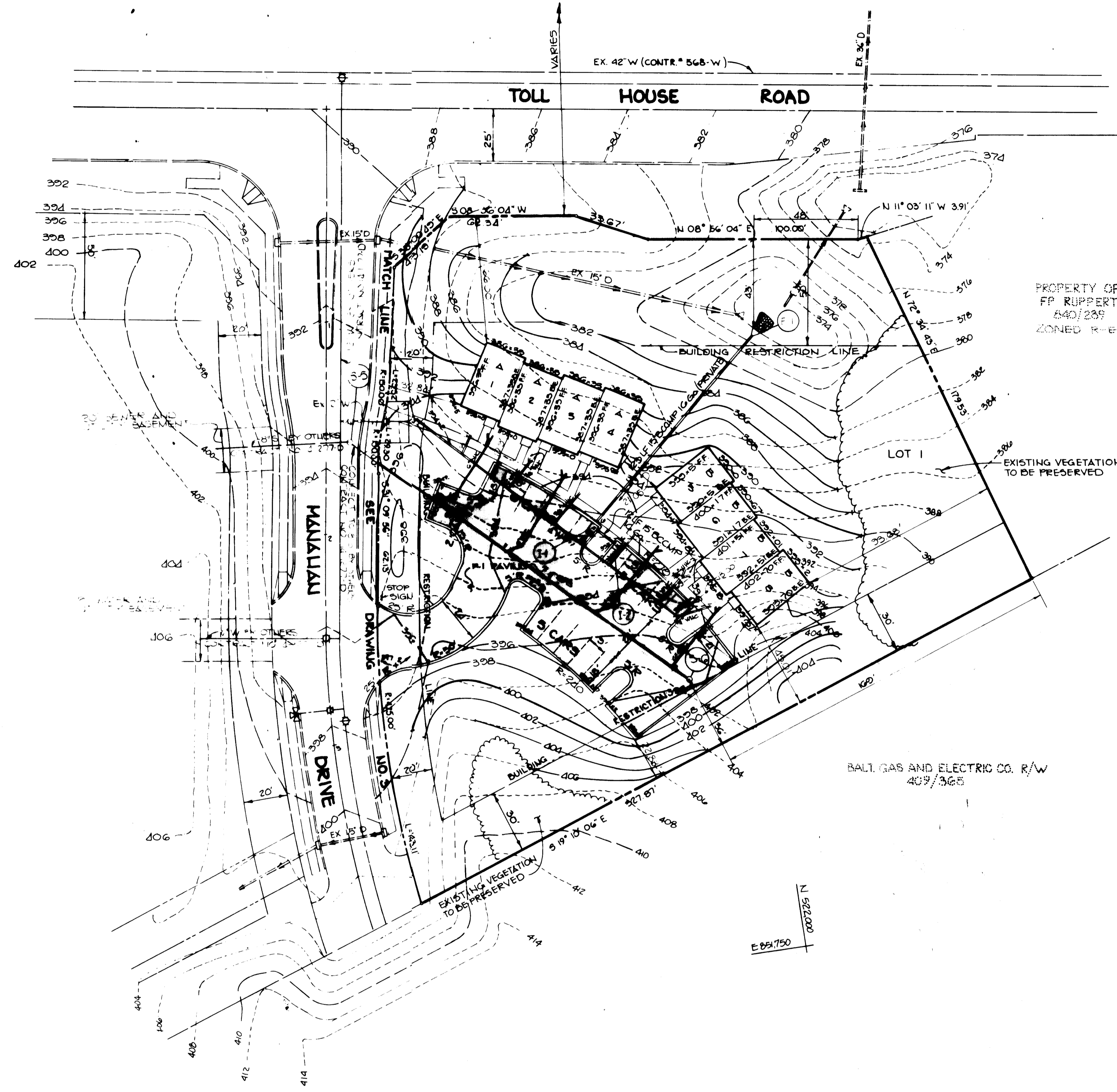
7-23-84
DATE

DESIGNED BY: J.K.D.
DRAWN BY: E.J.
PROJECT NO: 001000
DATE: 7-23-84
SCALE: AS SHOWN
DRAWING NO. 1 OF 8

[Signature]

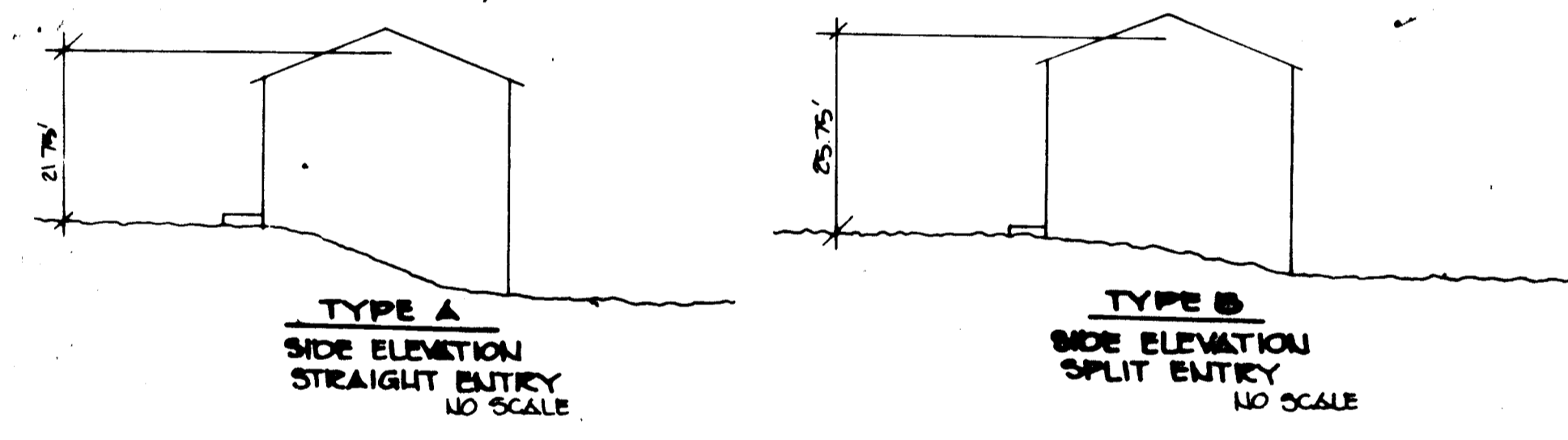
SECTION	DATE	BY
TOLL HOUSE	SECT 1	1/2
	R-ED	TAX MAP 24 E MD 2025
	F04	1401882

E 021.250
0051.25 N



PROPERTY OF
FP RUPPERT
840/239
ZONED R-ED

BAL. GAS AND ELECTRIC CO. R/W
408/365



UNIT DESIGNATION	FLOOR DIMENSION	UNIT TYPE
A	20' x 32'	STRAIGHT ENTRY
B	20' x 32'	SPLIT ENTRY

E 051.750
0051.25 N

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James Byrum 4-29-85
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas L. King 4-30-85
PLANNING DIRECTOR DATE

Shirley Marchant 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. M. Brumby 4-29-85
DIRECTOR DATE

William S. Reiss 4-24-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER: DOROTHY W. MANAHAN
3360 LIPTON ROAD
ELLICOTT CITY, MARYLAND, 21043

DEVEL: MANGIONE FAMILY ENTERPRISE
1205 YORK ROAD (PENTHOUSE)
LUTHERVILLE, MD 21098

PROJECT: TOLL HOUSE SECTION (ONE), LOTS 1 & 2

AREA: TAX MAP NO. 24 PARCEL 254
2ND ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE: SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland, 21041 301-461-2690

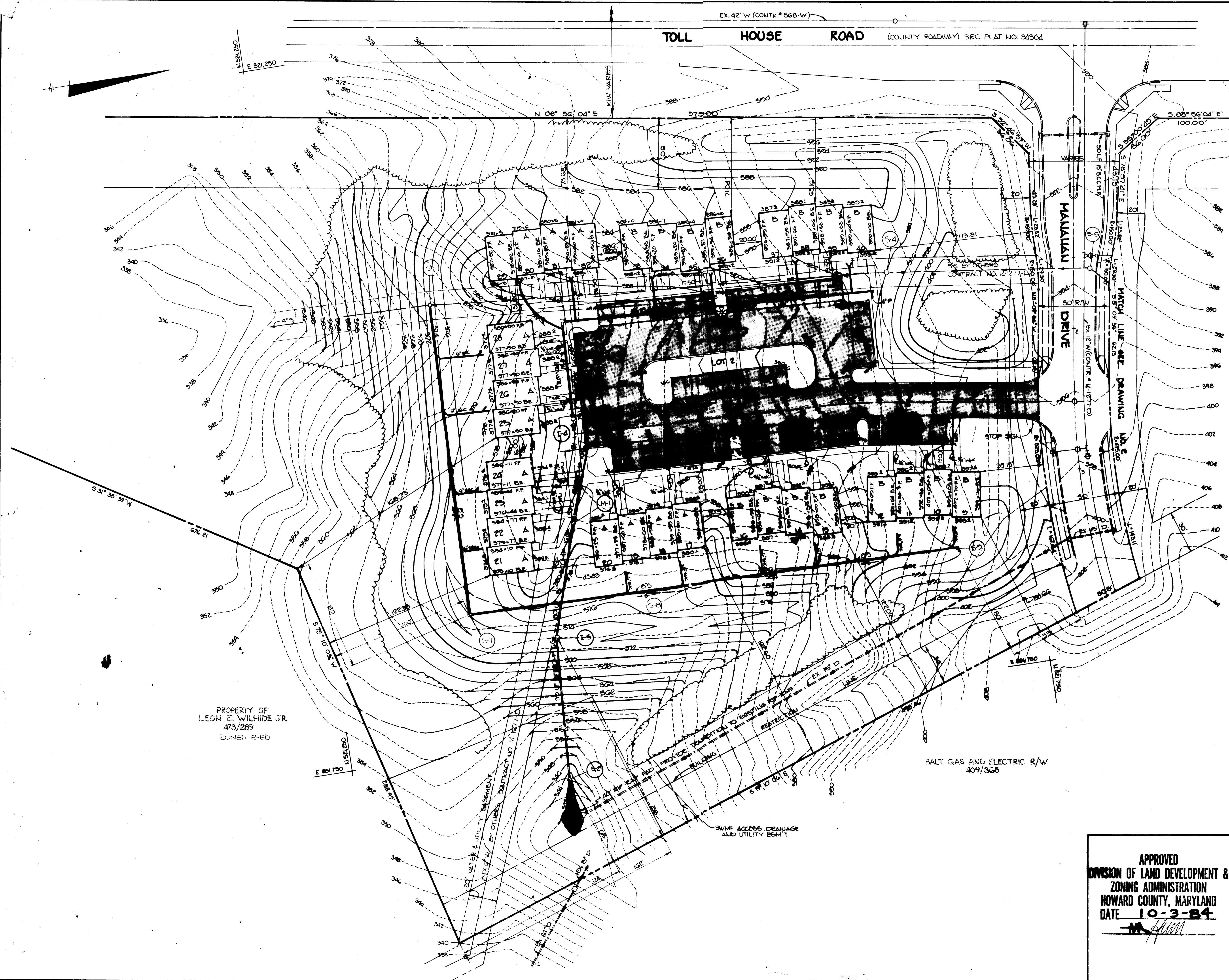
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-3-84
[Signature]

DATE	NO	REVISION
7-23-84		

DESIGNED BY JKB
DRAWN BY J.C.J.
PROJECT NO 001000
DATE 7-23-84
SCALE 1"=30'
DRAWING NO 2 OF 2

SDP-85-14

SEPTEMBER 2, 1984



PROPERTY OF
LEON E. WILKIE JR.
473/285
ZONED R-ED

BALT. GAS AND ELECTRIC R/W
409/365

SWAMP ACCESS, DRAINAGE
AND UTILITY ESM'T

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joyce Miller 4-29-85
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas L. Harris 4-30-85
PLANNING DIRECTOR DATE
John M. Muehlen 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. M. B... 4-24-85
DIRECTOR DATE
... 4-24-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
OWNER: DOROTHY W. MALIBU 5900 UPTON ROAD ELLICOTT CITY, MARYLAND 21045		
DEVELOPER: MALIBU FAMILY ENTERPRISES 1205 YORK ROAD (MELTHOUSE) LUTHERVILLE, MD. 20900		
PROJECT: TOLL HOUSE SECTION (ONE), Lots 1 & 2		
AREA: TAX MAP 110 24 PARCEL 254 2ND ELECTION DISTRICT HOWARD COUNTY MARYLAND		
TITLE: SITE DEVELOPMENT PLAN		

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-3-84
M. ...

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland, 21041 301 461-2690

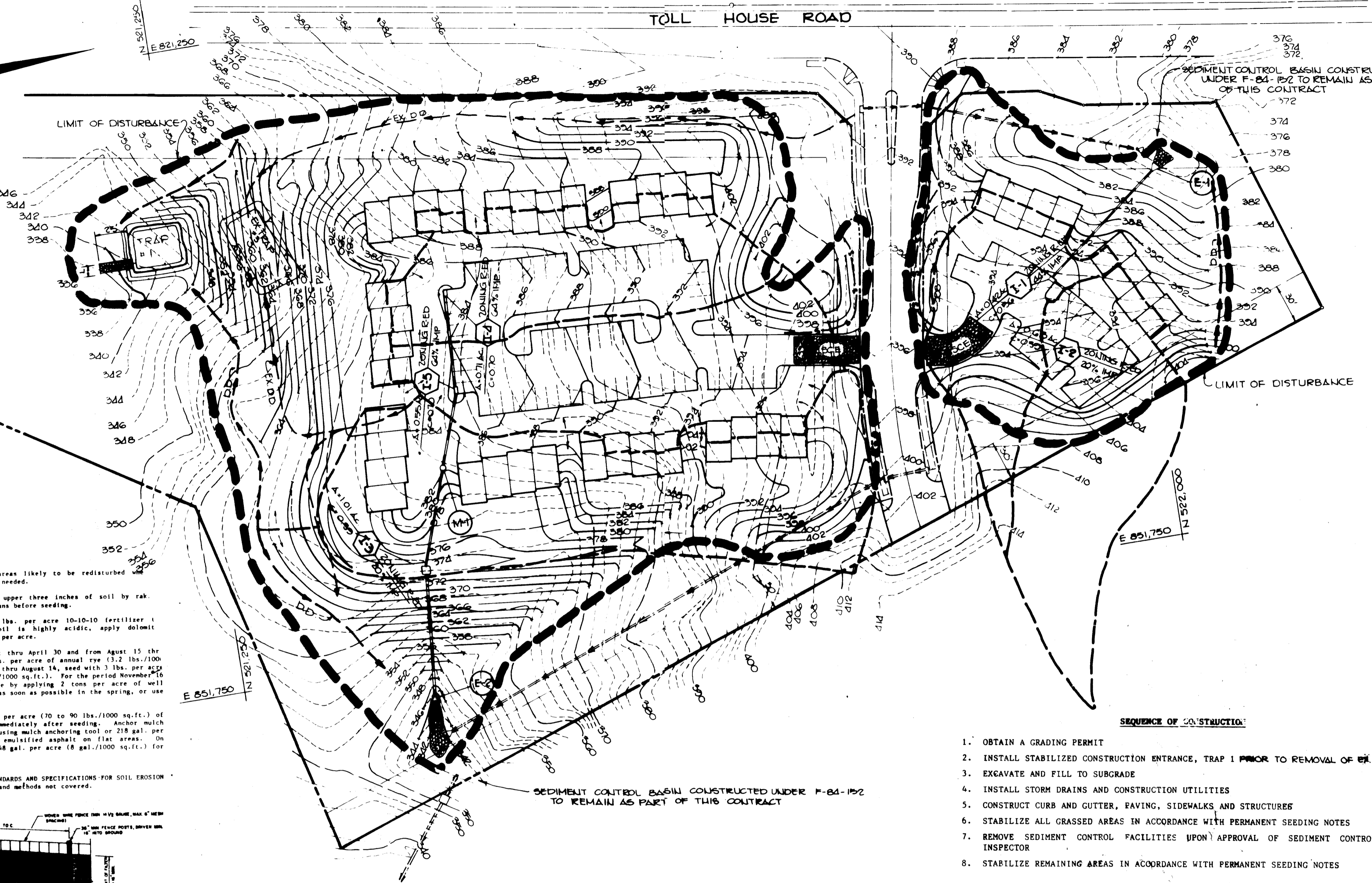
7-23-84
DATE

DESIGNED BY: J.K.B.
DRAWN BY: J.M.G.
PROJECT NO: 001000
DATE: 7-23-84
SCALE: 1"=50'
DRAWING NO: 3 OF 8

SEDIMENT TRAP SCHEDULE

Trap #	Drainage Area Ac.	Storage Required 67cy/Ac.	Storage Provided cy	Top Elev. ft.	Bottom Elev. ft.	Cleanout Elev. ft.	Bottom Dimensions	Crest Elev. ft.	L
1	2.34	157	144	342	338	335.5	30' x 26'	341	10

NOTE FOR EXISTING SEDIMENT CONTROL SEE GRADING PLAN G.P. 84.45



STRUCTURE SCHEDULE

NO.	ITEM	LOCATION	INV. IN	INV. OUT	TOP ELEV
1-1	Ho.Co.Std. type 'S' comb. inlet SD 4.32	see plan	388.88	388.68	393.20
1-2	Ho.Co.Std. type 'S' comb. inlet SD 4.32	see plan	—	389.00	393.20
1-3	Ho.Co.Std. type 'K' inlet SD 4.12	see plan	361.31	361.11	372.10
1-4	Ho.Co.Std. type 'S' comb. inlet SD 4.32	see plan	378.41	378.21	383.10
1-5	Ho.Co.Std. type 'S' comb. inlet SD 4.32	see plan	—	379.20	383.10
E-1	Ho.Co.Std. 15" metal end section SD 5.61	see plan	373.23	373.23	—
E-2	Ho.Co.Std. 15" metal end section SD 5.61	see plan	342.3	342.3	—
M-1	Ho.Co.Std. manhole SDG 5.12	see plan	376.71	376.51	382.5

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
- 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 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 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.
- Site Analysis:
 - Total Area of Site: _____ acres
 - Area Disturbed: _____ acres
 - Area to be roofed or paved: _____ acres
 - Area to be vegetatively stabilized: _____ acres
 - Total Cut: _____ cu. yds.
 - Total Fill: _____ cu. yds.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County SPM sediment control inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

TEMPORARY SEEDING NOTES

Apply in graded or cleared areas likely to be redistributed short-term vegetative cover is needed.

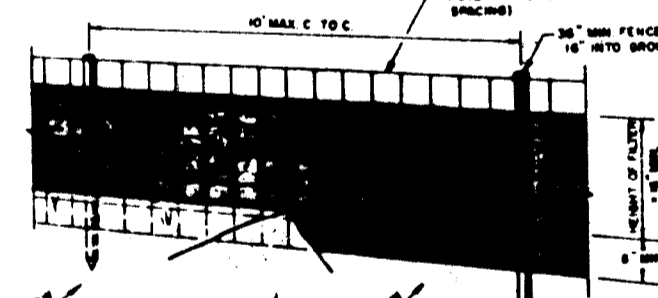
Soil Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 500 lbs. per acre 10-10-10 fertilizer (1 lb./1000 sq.ft.) where soil is highly acidic, apply dolomite limestone at the rate of 1 ton per acre.

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs. per acre of annual ryegrass (12 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of creeping lovegrass (1.07 lb./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.

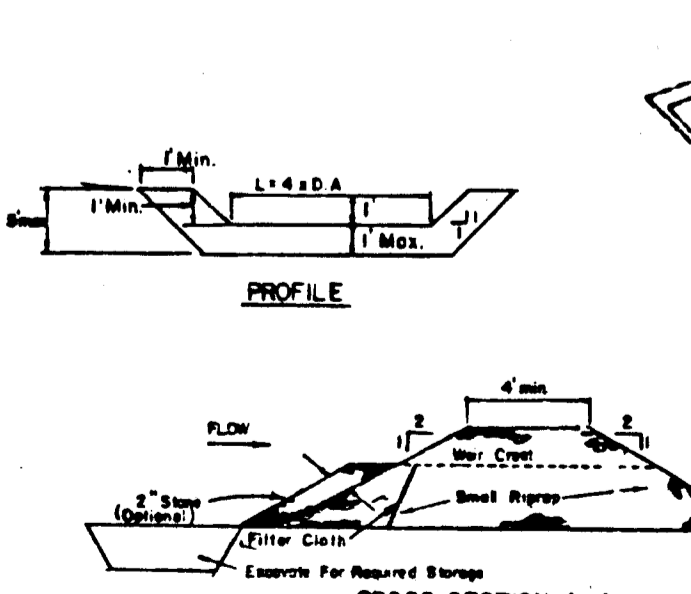
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (1 gal./1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 148 gal. per acre (1 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.



SILT FENCE

NO SCALE



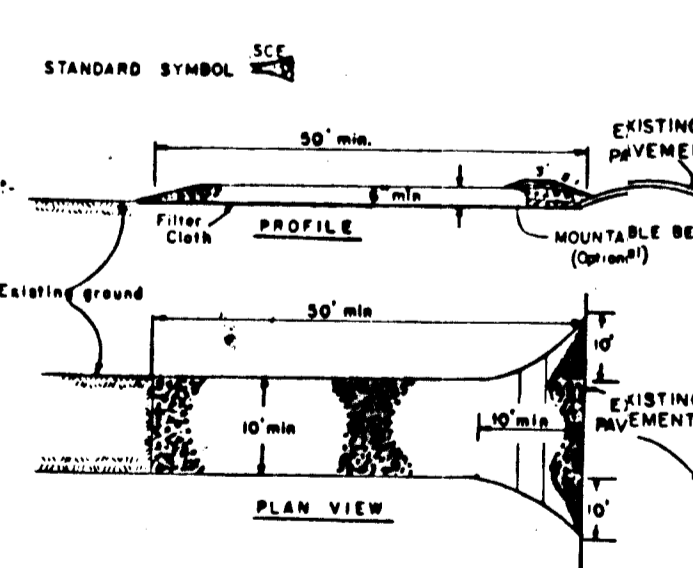
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- When wire fence is to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to fence posts with wire ties or staples every 24" at top and mid section.
- When two sections of filter cloth abut, each section shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed. Debris shall be removed when needed to develop in the silt fence.

POSTS: STEEL EIGHT (8) TYPE OF 2" HANDED

FENCE: WIRE FENCE, 16 GA. 2" DIA. POSTS, 16 GA. WIRE TIES

PRE-FABRICATED UNIT: GEOTEK, ENVIRONMENTAL OR APPROVED EQUAL

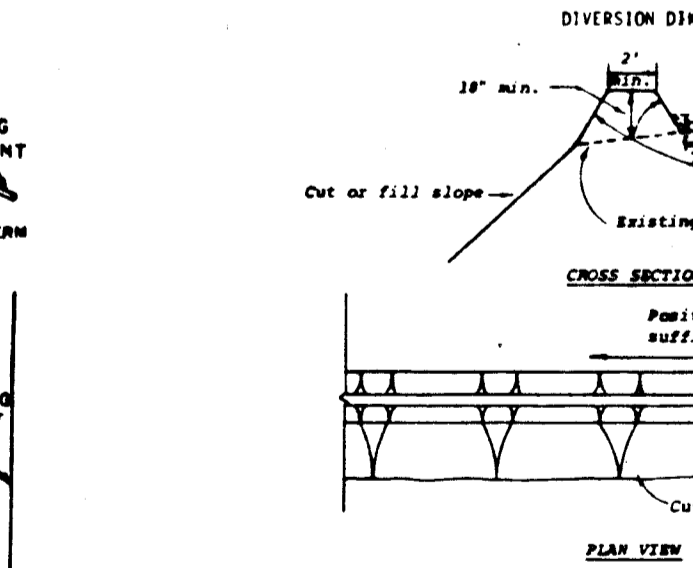


CONSTRUCTION SPECIFICATIONS

- Stone size - Use 3" stone, or retained or recycled concrete equivalent.
- Length - As required, but not less than 50 feet except on a single residential lot where a 20 foot minimum length would apply.
- Thickness - Not less than six (6) inches.
- Width - The (8) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Stable Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a portable pump with 1 1/2" slope will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent flooding or flooding of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Mulching - Mulch shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When watering is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



CONSTRUCTION SPECIFICATIONS

- All dikes shall be machine compacted.
- All diversion dikes shall have positive drainage to an outlet.
- All diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
- Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
- Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Graded Material, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets NMA size No. 2 or AASHTO No. 2 or 2 1/2 which is placed in a 3" thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawings here.
- Periodic inspection and required maintenance shall be provided.
- Standard Symbol: _____
- Drainage area less than 3 acres

DIVERSION DIKE

NO SCALE

- SEQUENCE OF CONSTRUCTION:
- OBTAIN A GRADING PERMIT
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE, TRAP 1 PRIOR TO REMOVAL OF EX. TRAP #3
 - EXCAVATE AND FILL TO SUBGRADE
 - INSTALL STORM DRAINS AND CONSTRUCTION UTILITIES
 - CONSTRUCT CURB AND GUTTER, RAISING, SIDEWALKS AND STRUCTURES
 - STABILIZE ALL GRASSED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES
 - REMOVE SEDIMENT CONTROL FACILITIES UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR
 - STABILIZE REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES

SITE ANALYSIS

DISTURBED AREA	5.01 Ac.
PAVING AREA	0.64 Ac.
ROOF AREA	0.59 Ac.
AREA TO BE RESEED	3.76 Ac.

BY THE DEVELOPER:

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

Anthony Mangione 4/17/85
DEVELOPER DATE

BY THE ENGINEER:

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

Arthur C. Muegg 4-17-85
ENGINEER DATE

REVIEWED FOR *Haward* S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS

Jama M. Helms 4/20/85
U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen R. Rubin 4/22/85
HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce Rogers 4-29-85
JOYCE ROGERS DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas G. Kamin 4-30-85
PLANNING DIRECTOR DATE

William M. ... 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

R. M. ... 4-24-85
DIRECTOR DATE

William S. ... 4-24-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER: DOROTHY W. MANAHAN
2960 UPTON ROAD
ELLICOTT CITY, MARYLAND

DEVELOPER: MANGIONE FAMILY ENTERPRISE
1202 YORK ROAD (PENTHOUSE)
LUTHERVILLE, MD 21108

PROJECT: TOLL HOUSE
(SECTION ONE), Lots 1 & 2

AREA TAX MAP NO. 24 PARCEL 254
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND
SEDIMENT CONTROL PLAN

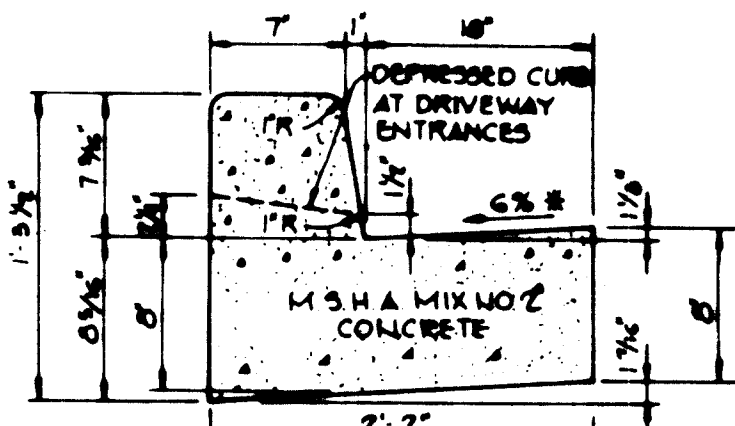
THE RIEMER GROUP, INC.

The Riemer Group, Inc. - A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland 21143 (410) 461-2900

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-3-84

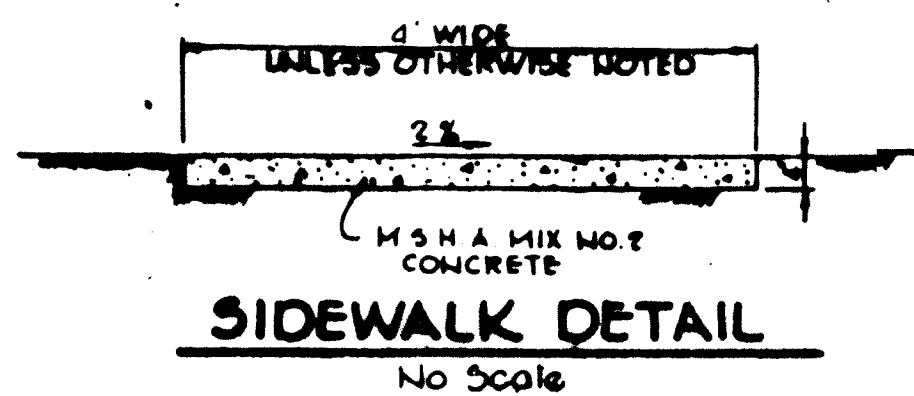
7-23-84 DATE

DESIGNED BY JKB
DRAWN BY JJC
PROJECT NO 1000
DATE 7-23-84
SCALE 1" = 50'
DRAWING NO 4 OF 5

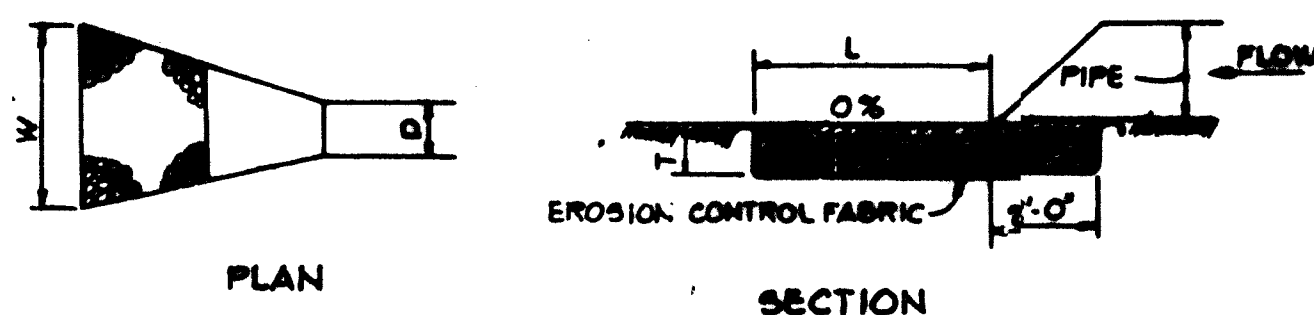


HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-801)
 * GUTTER FIN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

STANDARD 7" COMBINATION CURB AND GUTTER
 No Scale

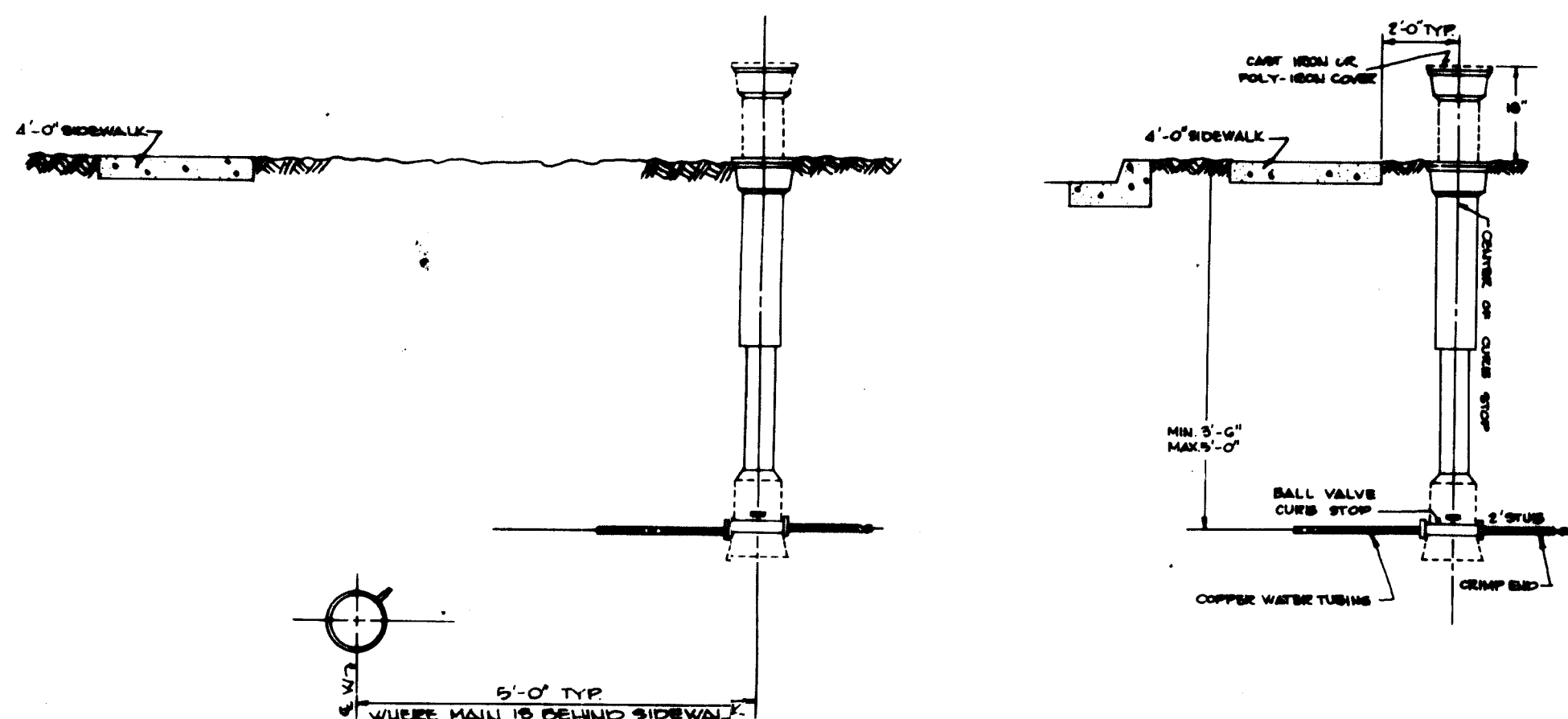


SIDEWALK DETAIL
 No Scale

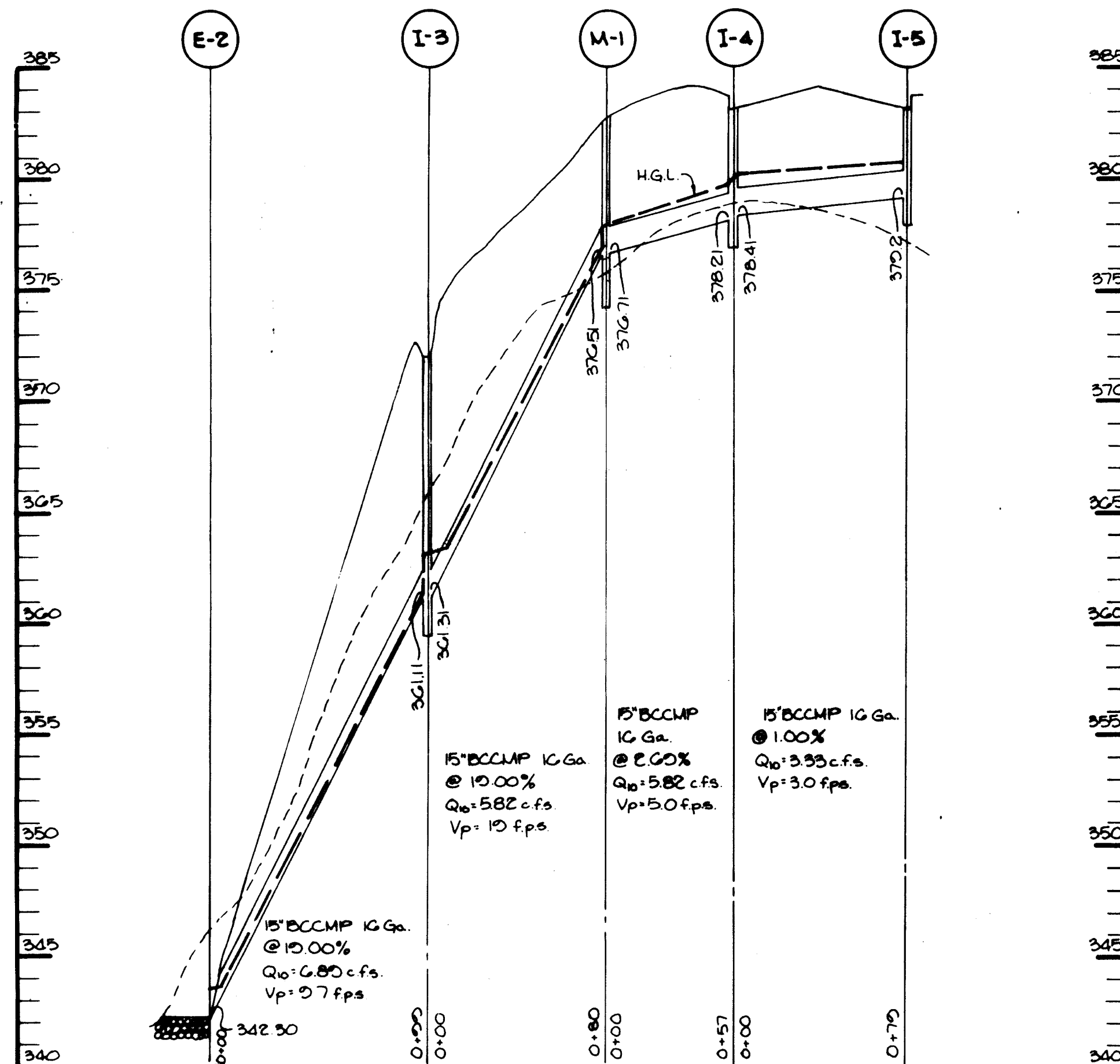


STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	5"	10'	12"	12"
E-2	5"	40'	12"	15"

OUTLET PROTECTION DETAIL
 No Scale

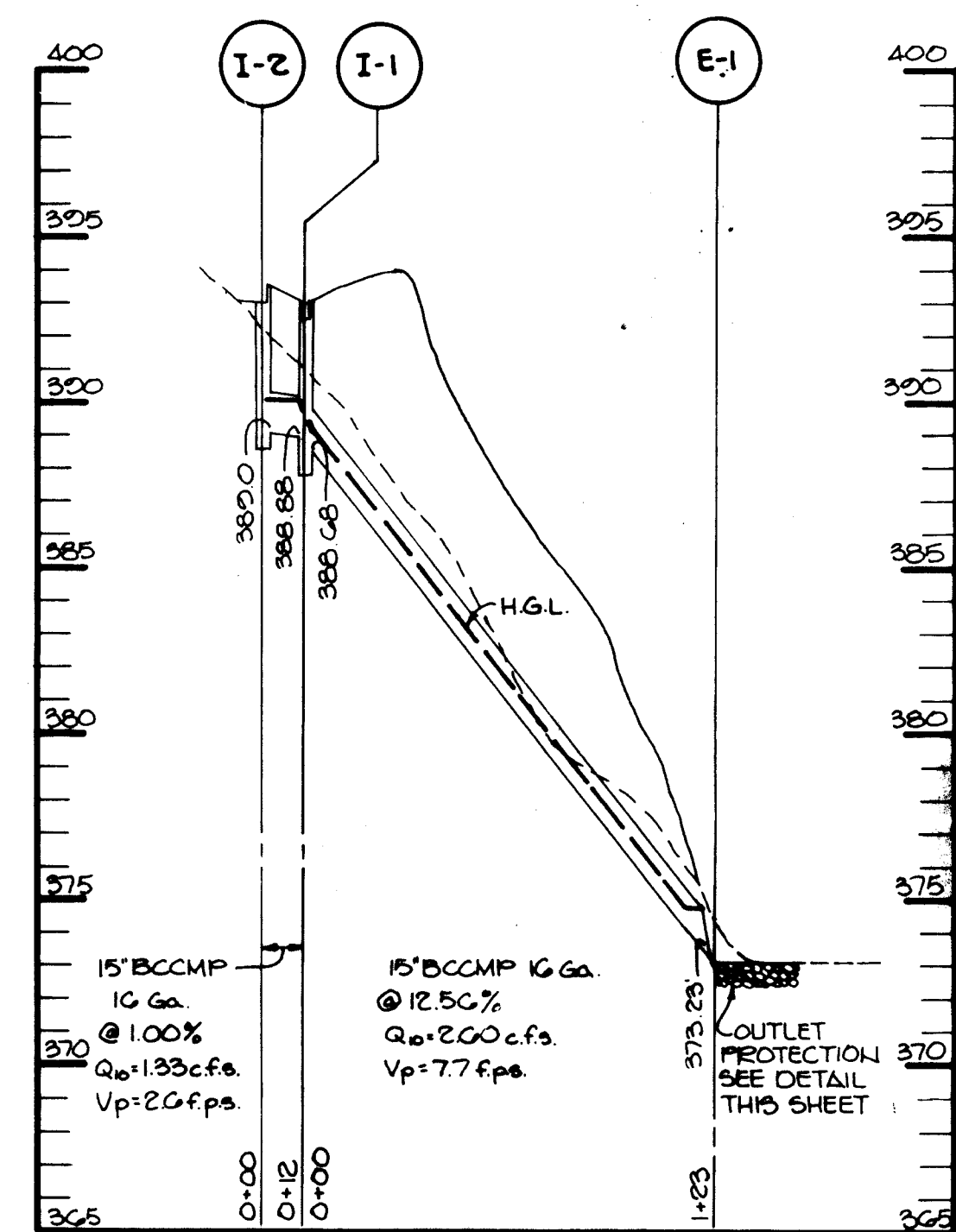


WATER SERVICE CONNECTIONS
 NO SCALE



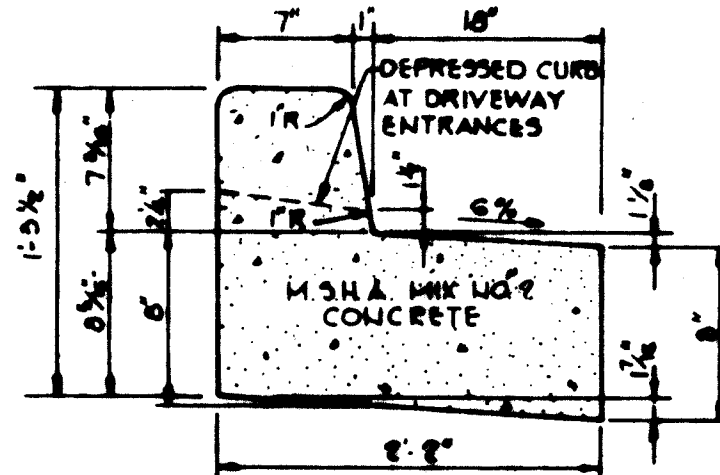
PROFILE

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

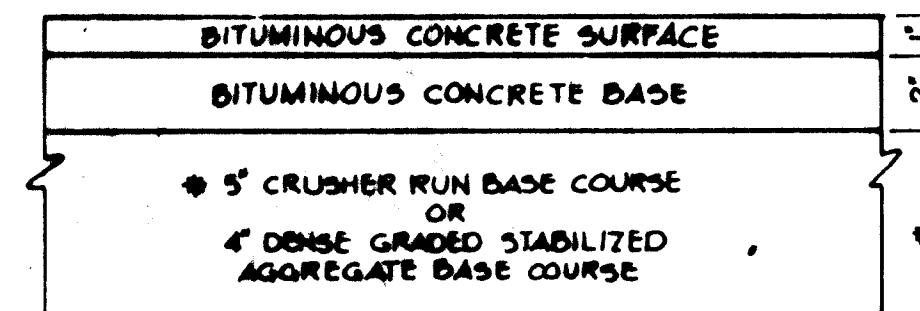


PROFILE

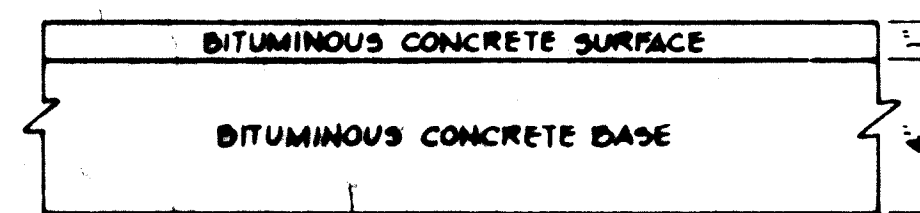
SCALE VERT. 1"=5'
 HORIZ. 1"=50'



REVERSE 7" COMBINATION CURB & GUTTER
 NO SCALE



(ALTERNATE)



HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)
(5" PAVING, P-1)
TYPICAL PAVING DETAIL
 NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

John J. ... 4-29-85
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Thomas J. ... 4-30-85
 PLANNING DIRECTOR DATE

John W. ... 4-30-85
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert M. ... 4-24-85
 DIRECTOR DATE

William S. ... 4-24-85
 CHIEF, BUREAU OF ENGINEERING DATE

DATE NO REVISION

OWNER DOROTHY W. MANAHAN
 2020 UPTON ROAD
 ELLICOTT CITY, MARYLAND 21043

DEVELOPER MAJOLIQUE FAMILY ENTERPRISES
 1205 YORK ROAD (PENTHOUSE)
 LUTHERVILLE, MD. 21098

PROJECT **TOLL HOUSE**
 (SECTION ONE), Lots 1 & 2

AREA TAX MAP NO. 24 PARCEL 254
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE **STORM DRAIN PROFILES AND DETAILS**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 8659 Baltimore National Pike, Ellicott City, Maryland 21043 301.461.2690

7-23-84 DATE

DESIGNED BY J.K.B.

DRAWN BY DAM

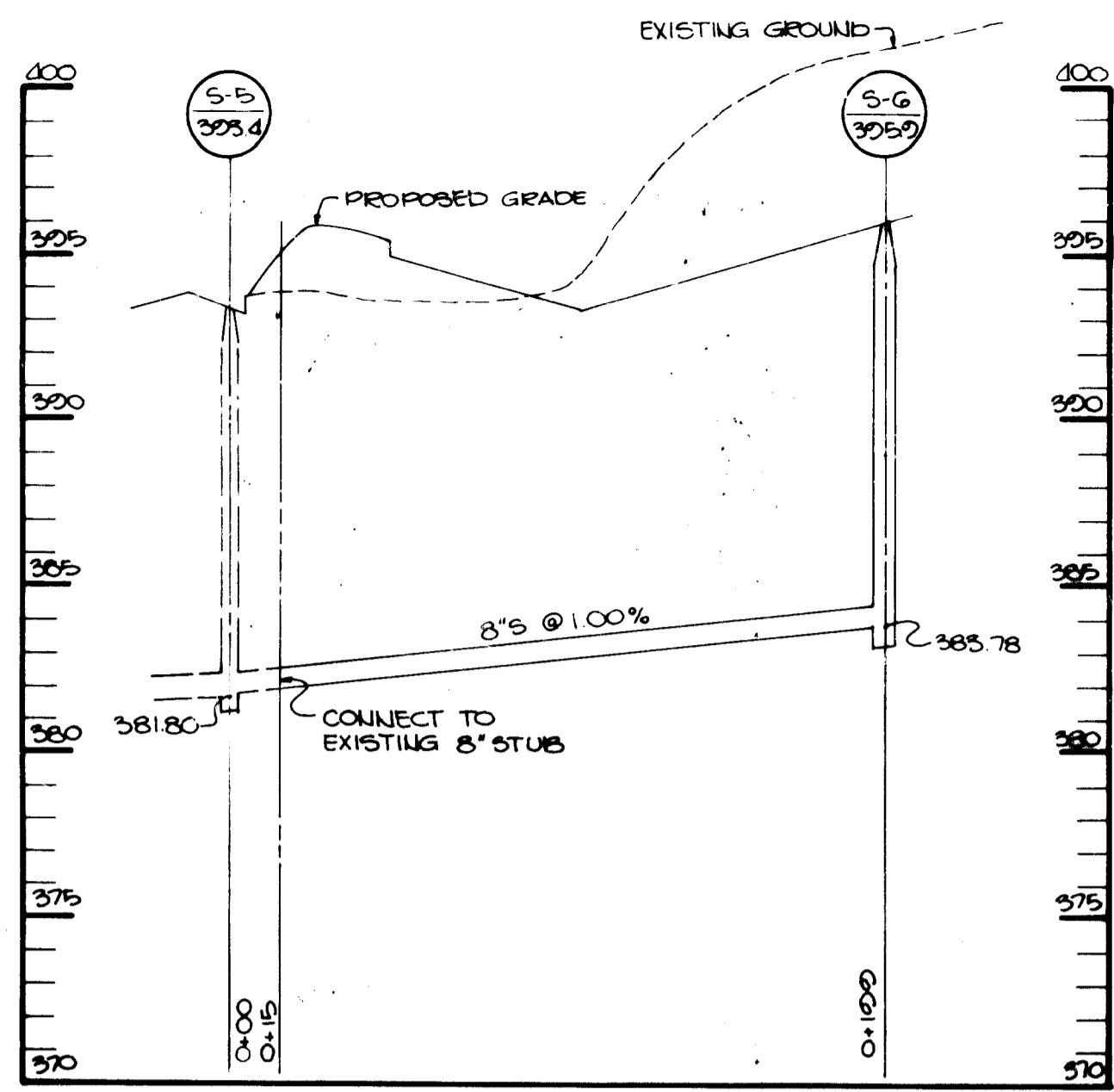
PROJECT NO. 001000

DATE 7-23-84

SCALE AS SHOWN

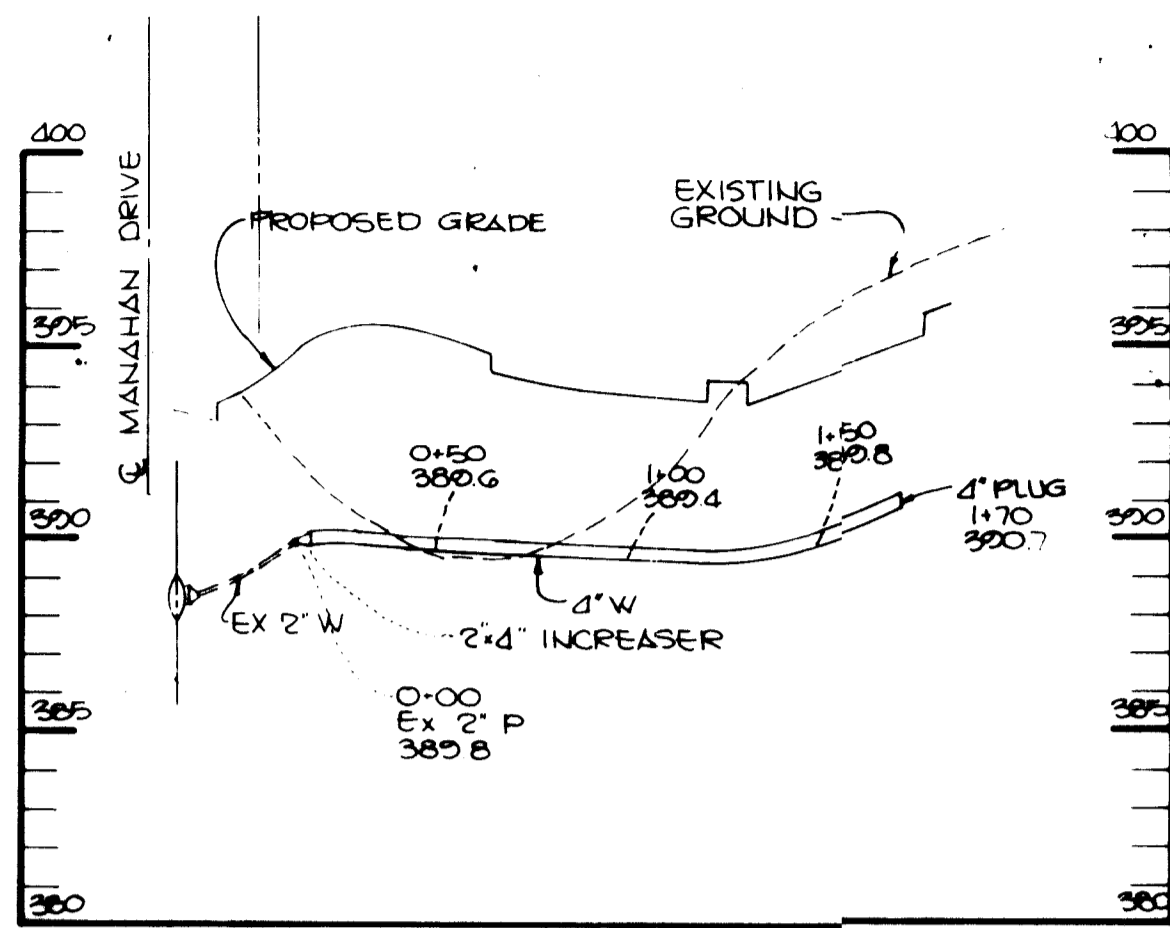
DRAWING NO. 5 OF 8

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-3-84



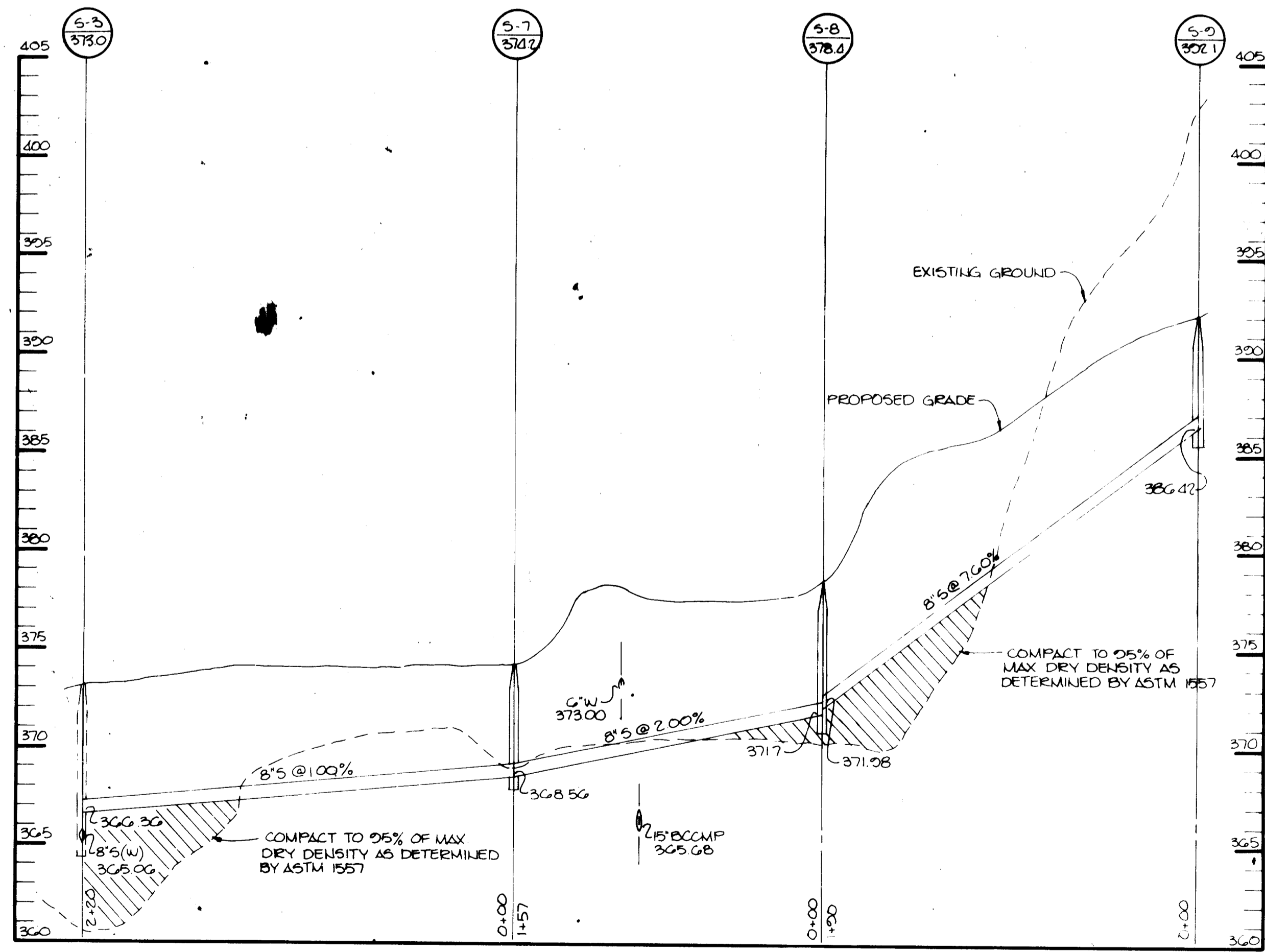
PROFILE ALONG CL OF THE SEWER (LOT 1)

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



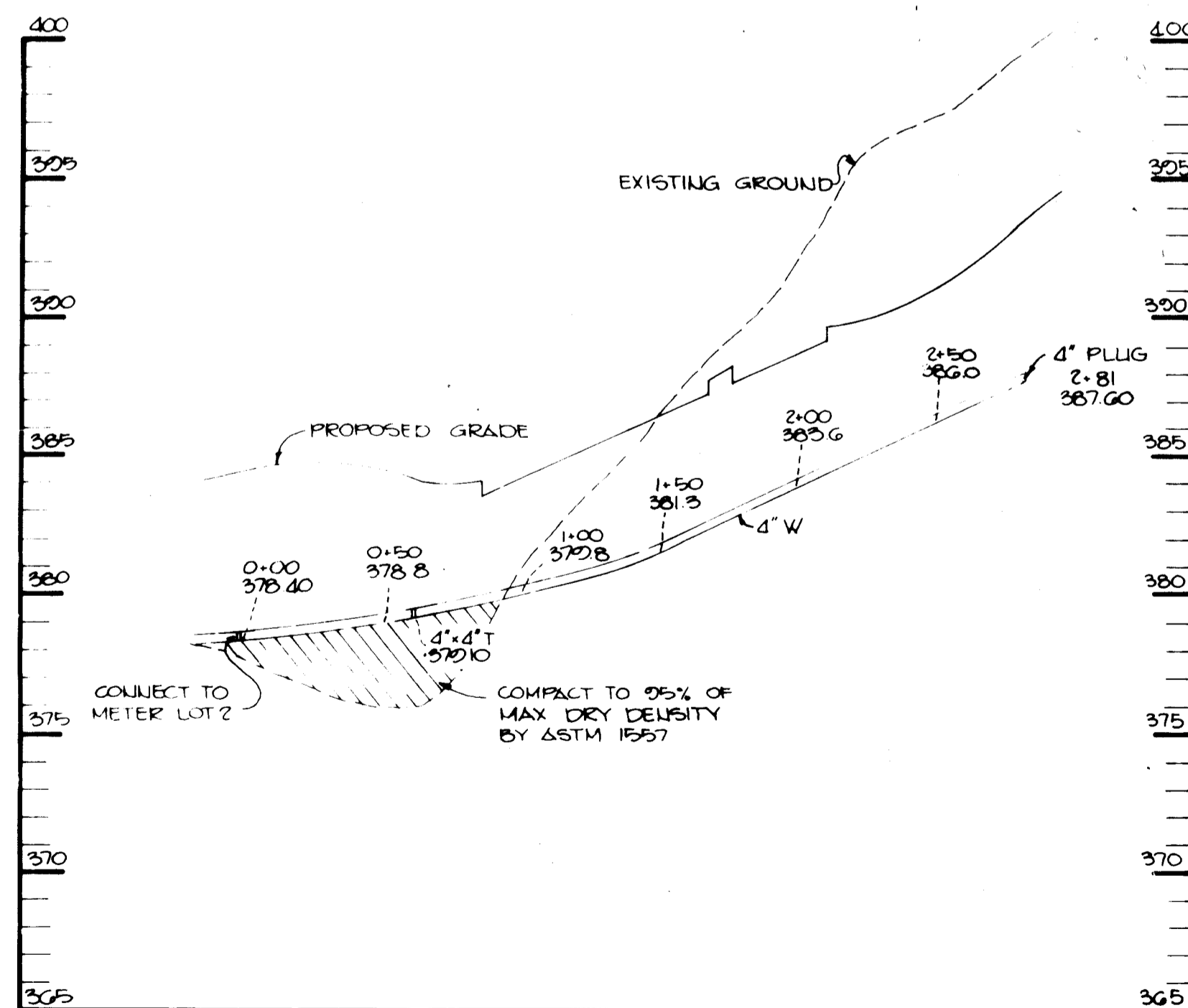
PROFILE ALONG CL OF THE WATER (LOT 1)

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



PROFILE ALONG CL OF THE SEWER (LOT 2)

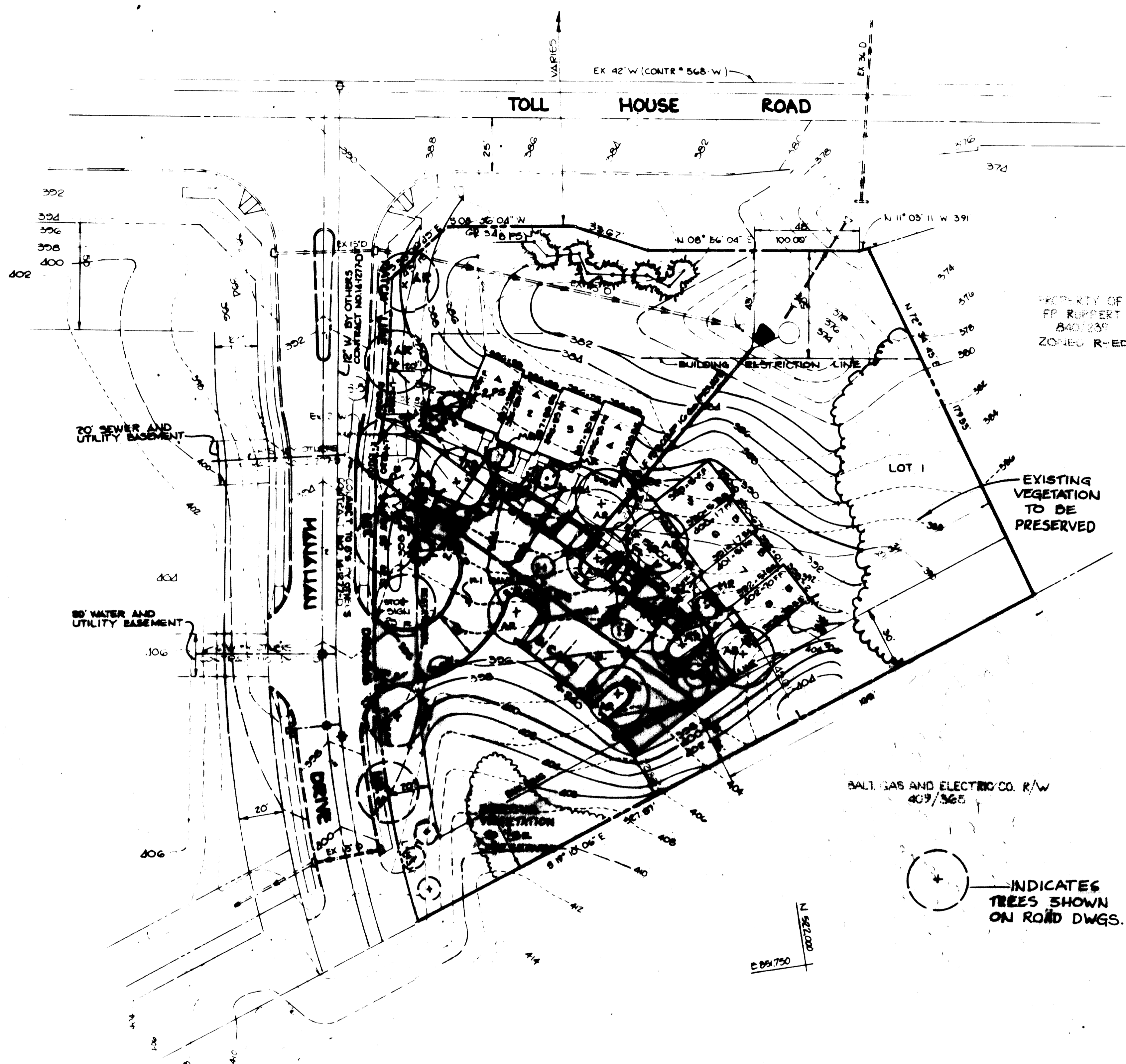
SCALE HORIZ 1" = 50'
VERT 1" = 5'



PROFILE ALONG CL OF THE WATER (LOT 2)

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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Jayman Byler</i>	4-29-85
COUNTY HEALTH OFFICER	DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.	
<i>Thomas L. Hamel</i>	4-30-85
PLANNING DIRECTOR	DATE
<i>John M. Newman</i>	4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Robert M. Benjamin</i>	4-29-85
DIRECTOR	DATE
<i>Robert M. Benjamin</i>	4-24-85
CHIEF, BUREAU OF ENGINEERING	DATE
DATE	REVISION
OWNER:	DORTHY W. MANAHAN 20200 LIPTON ROAD ELLICOTT CITY, MARYLAND 21043
DEVEL:	MANGIONE FAMILY ENTERPRISE 1205 YORK ROAD (PENTHOUSE) LUTHERVILLE, MD 21098
PROJECT:	TOLL HOUSE SECTION (ONE), Lots 1 & 2
AREA:	TAX MAP NO. 24 PARCEL 254 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE WATER AND SEWER PROFILES	
THE RIEMER GROUP, INC. The Riemer Group, Inc. - A Land Planning, Design & Civil Engineering Firm 8650 Baltimore National Pike, Ellicott City, Maryland 21041 - 301-461-2940	
7-23-84	DATE
APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 10-3-84	
<i>John M. Newman</i>	DESIGNED BY JDP
<i>John M. Newman</i>	DRAWN BY JMG
<i>John M. Newman</i>	PROJECT NO. 001000
<i>John M. Newman</i>	DATE 7-23-84
<i>John M. Newman</i>	SCALE AS SHOWN
<i>John M. Newman</i>	DRAWING NO. 6 OF 8



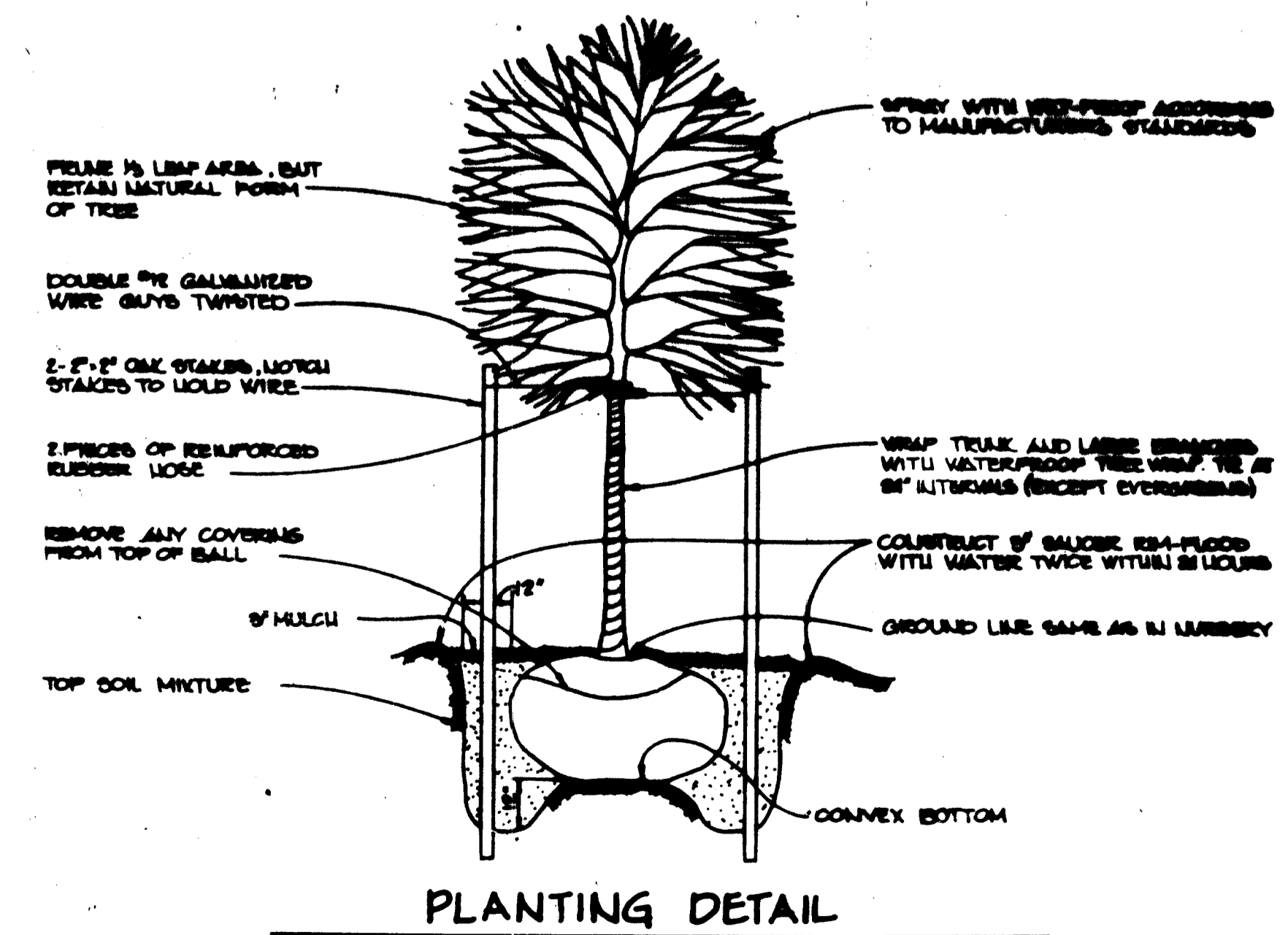
PROPERTY OF
FR. RUPPERT
8401235
ZONED R-ED

BAL. GAS AND ELECTRIC CO. R/W
407/365

INDICATES
TREES SHOWN
ON ROAD DWGS.

PLANT LIST

SYN.	QUAN.	NAME	REMARKS
AR	33	ACER RUBRUM - Red Maple	2 1/2"-3" Cal.; 13'-15' Ht. B&B, Full Head
CE	6	CORNUS FLORIDA - White Flowering Dogwood	6'-8" Ht., B&B Full Head
HR	8	MALUS RADIANT - Radiant Crabapple	6'-8" Ht., B&B Full Height
PS	40	PIRUS STROBUS - Eastern White Pine	2 1/2" Cal.; 6'-8" Ht. B&B, Full Head



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph J. Gyles 4-29-85
JUNIOR HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Amey 4-30-85
PLANNING DIRECTOR DATE
Paul M. Mendenhall 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert W. Benjamin GEN 4-24-85
DIRECTOR DATE

William S. Ralston
CHIEF, BUREAU OF ENGINEERING DATE 4-24-85

DATE	NO.	REVISION
OWNER: DOROTHY W. MANAHAN 5500 UPTON ROAD ELICOTT CITY, MARYLAND, 21043		
DEVELOPER: MANGIONE FAMILY ENTERPRISE 205 YORK ROAD (PENTHOUSE) LUTHERVILLE, MD 21098		
PROJECT: TOLL HOUSE SECTION (ONE), Lots 1 & 2		
AREA: TAX MAP NO 24 PARCEL 254 2ND ELECTION DISTRICT HOWARD COUNTY MARYLAND		
TITLE: PLANTING PLAN		

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-3-84
Melanie Moore

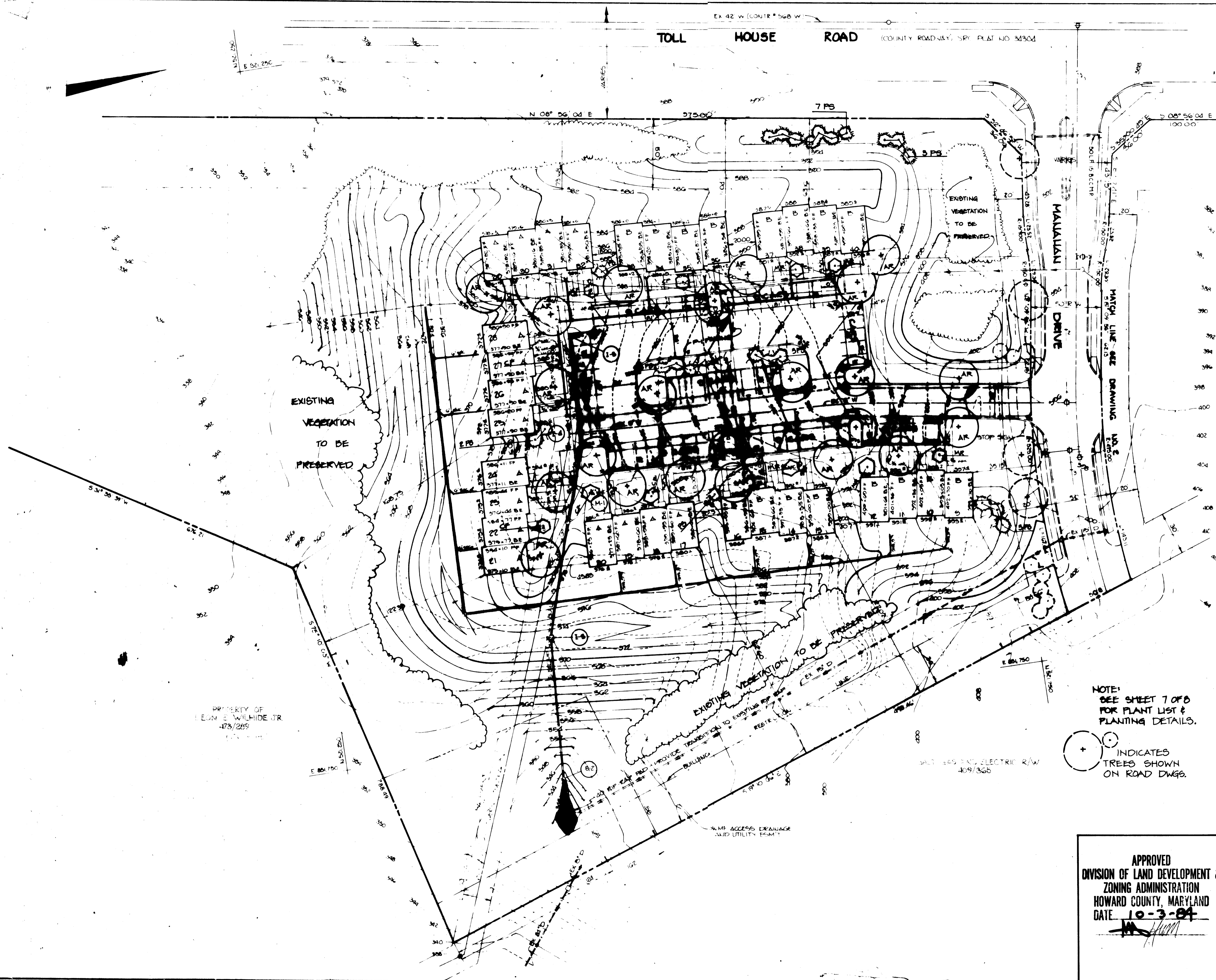
THE RIEMER GROUP, INC.
The Riemer Group, Inc. - A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland, 21043 (301) 461-2698

7-25-84
DATE
DESIGNED BY MEM
DRAWN BY PM
PROJECT NO 00000
DATE 7-25-84
SCALE 1"=30'
DRAWING NO 7 OF 8

Melanie Moore

30P-85-14

SEPTEMBER 13, 1984



PROPERTY OF
LEON E. WILSHIRE JR.
473/285

NOTE:
SEE SHEET 7 OF 8
FOR PLANT LIST &
PLANTING DETAILS.

⊕ INDICATES
TREES SHOWN
ON ROAD DWGS.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Jaym Byrum 4-29-85
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas J. Amigo 4-30-85
PLANNING DIRECTOR DATE
William M. ... 4-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

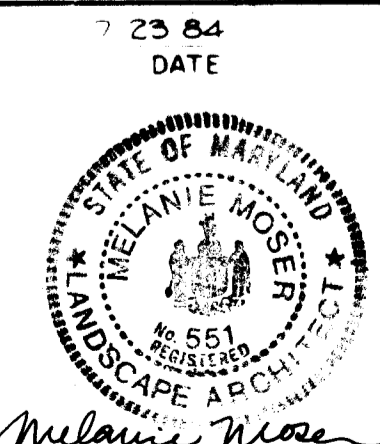
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. M. ... 4-24-85
DIRECTOR DATE
... 4-24-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
OWNER: JORTHY W. MANSALLI 2900 UPTON ROAD ELICOTT CITY, MARYLAND 21045		
DEVEL: MANSIONE FAMILY ENTERPRISES 1205 YORK ROAD (MELTHERSE) LUTHERVILLE, MD 20958		
PROJECT: TOLL HOUSE SECTION (ONE), LOTS 1 & 2		
AREA: TAX MAP NO 24 PARCEL 254 2ND ELECTION DISTRICT HOWARD COUNTY MARYLAND		

PLANTING PLAN

THE RIEMER GROUP, INC.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-3-84
M. ...



7-23-84
DATE
DESIGNED: MEM.
DRAWN: DK
PROJECT NO: 001000
DATE: 7-23-84
SCALE: 1"=50'
DRAWING NO: 8 OF 8