

SHEET INDEX	
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5	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
6	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
7	S.W.M. AND SEDIMENT CONTROL DETAILS AND NOTES
8	PLANTING PLAN
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# SITE DEVELOPMENT PLAN

# TWIN KNOLLS SOUTH

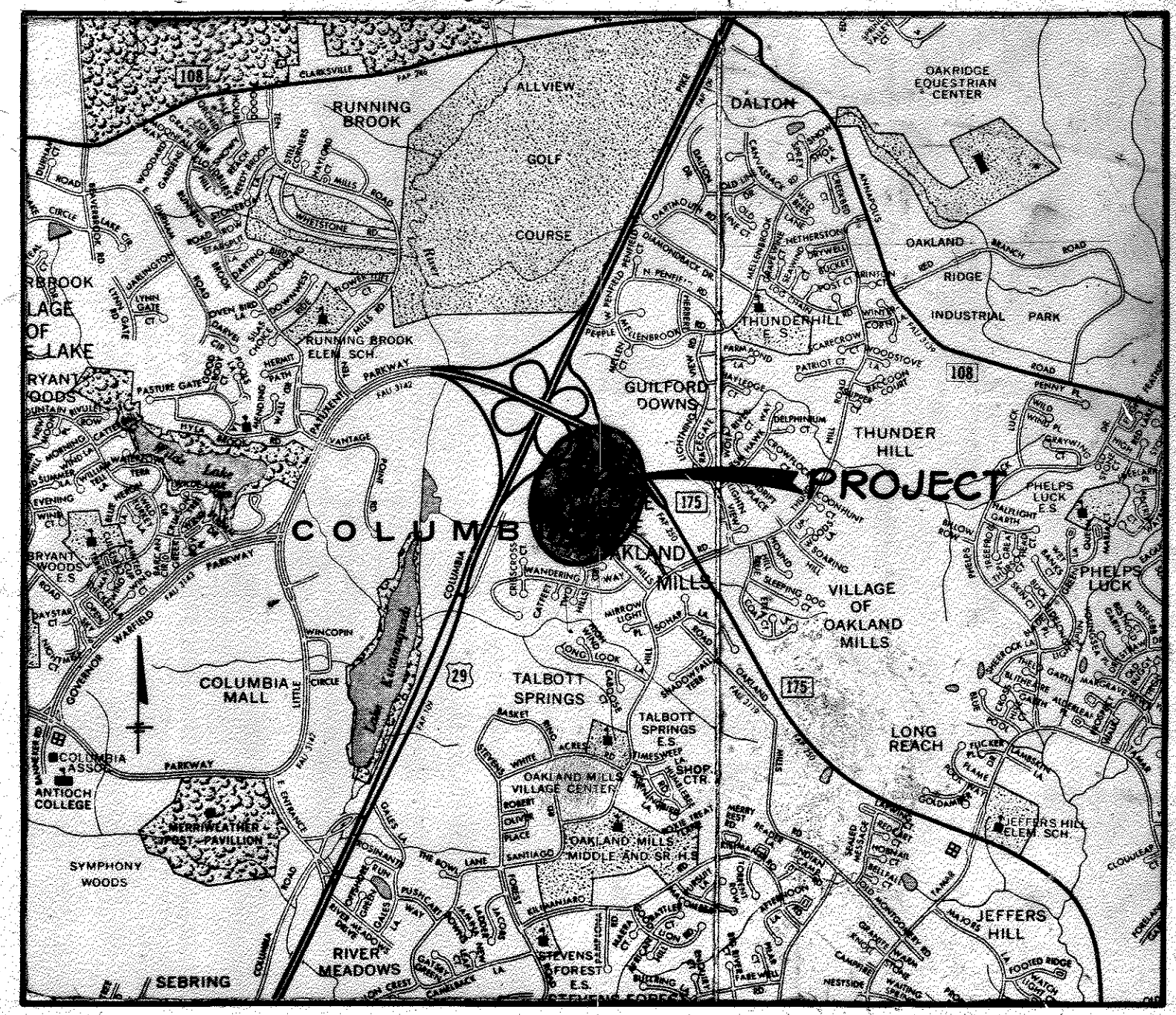
# PARCEL E

# VILLAGE OF OAKLAND MILLS

## SECTION 3, AREA 1

## 6TH ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND



**VICINITY MAP**  
SCALE: 1" = 2,000'

**GENERAL NOTES**

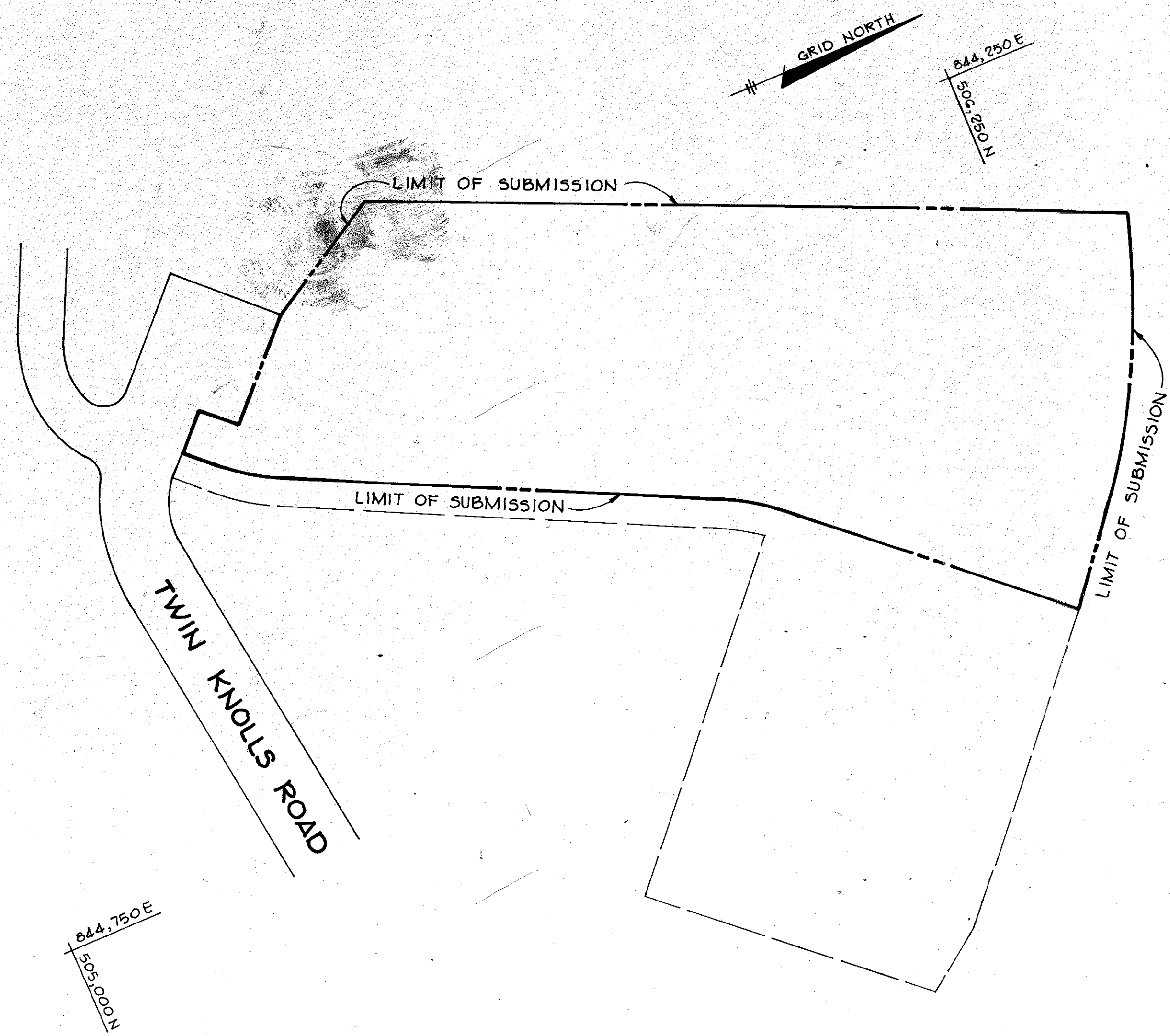
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLED BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE 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 THIS/THESE DRAWINGS:  
C & P TELEPHONE COMPANY 725-9976  
HOWARD COUNTY BUREAU OF UTILITIES 992-2366  
AT&T CABLE LOCATION DIVISION 393-3553  
BALTIMORE GAS AND ELECTRIC COMPANY 685-0123  
STATE HIGHWAY ADMINISTRATION 531-5533  
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION 992-2417/2418 (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT 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 WITHIN 6" OF FINISHED GRADE.

- TELECOMMUNICATIONS:  
A. VERIZON WIRELESS TELECOMMUNICATIONS FACILITY = 288 SF. (1.7% OF TOTAL ROOF AREA)  
B. VERIZON WIRELESS ANTENNA SECTORS ON ROOF = 420 SF. (2.4% OF TOTAL ROOF AREA)

**SITE DATA**

TOTAL AREA OF SITE	6.797 Acres
EXISTING ZONING	FDP PHASE 43-A-I
PROPOSED BUILDING USE	New Town (Commercial) Office
PROPOSED BUILDING AREA: (GROSS LEASEABLE AREA)	
FIRST FLOOR	15,625 Square Feet
SECOND FLOOR	15,625 Square Feet
THIRD FLOOR	15,625 Square Feet
FOURTH FLOOR	15,625 Square Feet
TOTAL	62,500 Square Feet
PARKING:	REQUIRED PROVIDED
8 & 4 SPACE/1000 S.F. OF GROSS LEASEABLE AREA	250 266
TOTAL PROPOSED BUILDING COVERAGE	6%
OPEN SPACE (LANDSCAPED AREA)	REQUIRED PROVIDED
IMPERVIOUS AREA	20% 54%
AREA TO BE RESEEDDED	3.15 Acres 3.65 Acres

**NOTE:**  
BUILDING PERMIT APPLICATION DEADLINE FOR NEW REDLINE FEATURES MUST BE APPROVED BY OCTOBER 18 2017. AN IMPROVEMENT HAS BEEN ADDED TO SHEET 1 SHOWING THE PERCENTAGE OF THE TOTAL ROOF AREA OCCUPIED BY VERIZON WIRELESS ANTENNA SECTORS AND EQUIPMENT FACILITY AT GROUND LEVEL.



**LOCATION PLAN**  
SCALE: 1" = 100'

SEAL:

JIANG YU  
PROFESSIONAL ENGINEER  
MD LICENSE NO 46030

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*James Brulles* 5-11-82  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John M. ...* 5-11-82  
PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
*John M. ...* 5-11-82  
DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*...* 5-4-82  
DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING  
*...* 5-2-82  
DATE

- NOTES**
- PER SECTION 128.0.E.4.a. OF THE ZONING REGULATIONS, THE STRUCTURE SHALL BE GRAY OR A COLOR THAT MINIMIZES VISIBILITY CONSISTENT WITH THE FEDERAL COMMUNICATION COMMISSION OR FEDERAL AVIATION ADMINISTRATION.
  - PER SECTION 128.0.E.4.d.(1) OF THE ZONING REGULATIONS, THE STANDARDS FOR THE EQUIPMENT BUILDINGS ARE AS FOLLOWS:  
A. THE MAX. FLOOR AREA IS 600 SQUARE FEET AND THE MAX. HEIGHT IS 12 FEET.  
B. GROUND-LEVEL BUILDINGS SHALL BE SCREENED FROM ADJACENT PROPERTIES BY LANDSCAPE PLANTINGS, FENCING OR OTHER APPROPRIATE MEANS.  
C. EQUIPMENT BUILDINGS MOUNTED ON A ROOF SHALL HAVE A FINISH SIMILAR TO THE EXTERIOR BUILDING WALLS.
  - PER SECTION 128.0.E.4.d.(3) OF THE ZONING REGULATIONS, EQUIPMENT BUILDINGS AND RELATED EQUIPMENT SHALL OCCUPY NO MORE THAN 25% OF THE TOTAL ROOF AREA OF THE BUILDING.
  - PER SECTION 128.0.E.4.p. OF THE ZONING REGULATIONS, NO SIGNALS OR LIGHTS ARE PERMITTED UNLESS REQUIRED BY THE FEDERAL COMMUNICATION COMMISSION OR FEDERAL AVIATION ADMINISTRATION.

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-16-81

OWNER/DEVELOPER  
TWIN KNOLLS SOUTH LIMITED PARTNERSHIP  
SUITE 300, 5570 STERRETT PLACE  
COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF OAKLAND MILLS SECTION 3, AREA 1  
TWIN KNOLLS SOUTH-PARCEL E

AREA TAX MAP NO. 30  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

**Riemer - Tracy & Associates, Inc.**  
8659 Baltimore National Pike  
Ellicott City, Maryland 21043  
(301) 461-2690  
Land Planning, Design & Civil Engineering

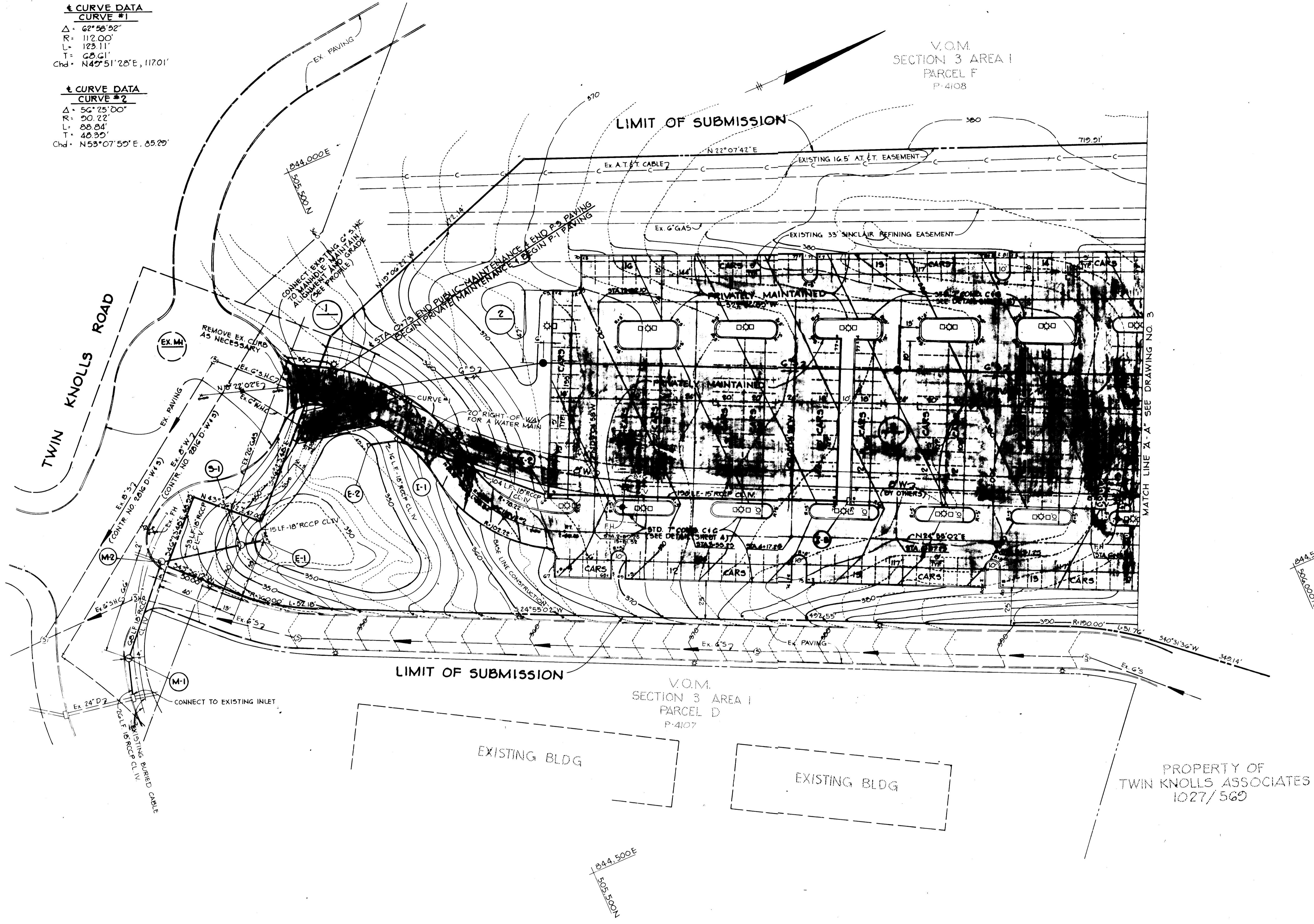
11-5-81  
DATE  
DESIGNED BY: R.J.W.  
DRAWN BY: D.A.M.  
PROJECT NO: 1481  
DATE: 11-4-81  
SCALE: AS SHOWN  
DRAWING NO. 1 OF 3

*James K. Tracy*  
PROFESSIONAL ENGR. NO. 9566

**CURVE DATA**  
**CURVE #1**  
 $\Delta = 62^{\circ}58'52''$   
 $R = 112.00'$   
 $L = 123.11'$   
 $T = 68.61'$   
 $Chd = N40^{\circ}51'28'' E, 117.01'$

**CURVE DATA**  
**CURVE #2**  
 $\Delta = 56^{\circ}25'00''$   
 $R = 90.22'$   
 $L = 88.84'$   
 $T = 46.30'$   
 $Chd = N53^{\circ}07'50'' E, 85.29'$

V.O.M.  
 SECTION 3 AREA I  
 PARCEL F  
 P-4108



RECORD PLAT RECORDING REFERENCE NO. 4107

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	<i>J. F. ...</i>	5-11-81
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.	<i>...</i>	5-11-81
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	<i>...</i>	5-11-81

OWNER/DEVELOPER	TWIN KNOLLS SOUTH LIMITED PARTNERSHIP SUITE 300, 5570 STERRETT PLACE COLUMBIA, MARYLAND 21044
PROJECT	VILLAGE OF OAKLAND MILLS SECTION 3, AREA I TWIN KNOLLS SOUTH-PARCEL E
AREA	TAX MAP NO 30 GTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	SITE DEVELOPMENT PLAN

<b>R</b>	<b>Riemer - Tracy &amp; Associates, Inc.</b> 8858 Baltimore National Pike Ellicott City, Maryland 21041 (301) 461-2690 Land Planning, Design & Civil Engineering
DATE	11-5-81
DESIGNED BY	L.J.D.
DRAWN BY	D.A.M.
PROJECT NO.	1481
DATE	11-4-81
SCALE	1"=30'
DRAWING NO.	2 OF 2

APPROVED  
 PLANNING BOARD  
 12-16-81

*...*  
 PROFESSIONAL ENGR NO. 3966

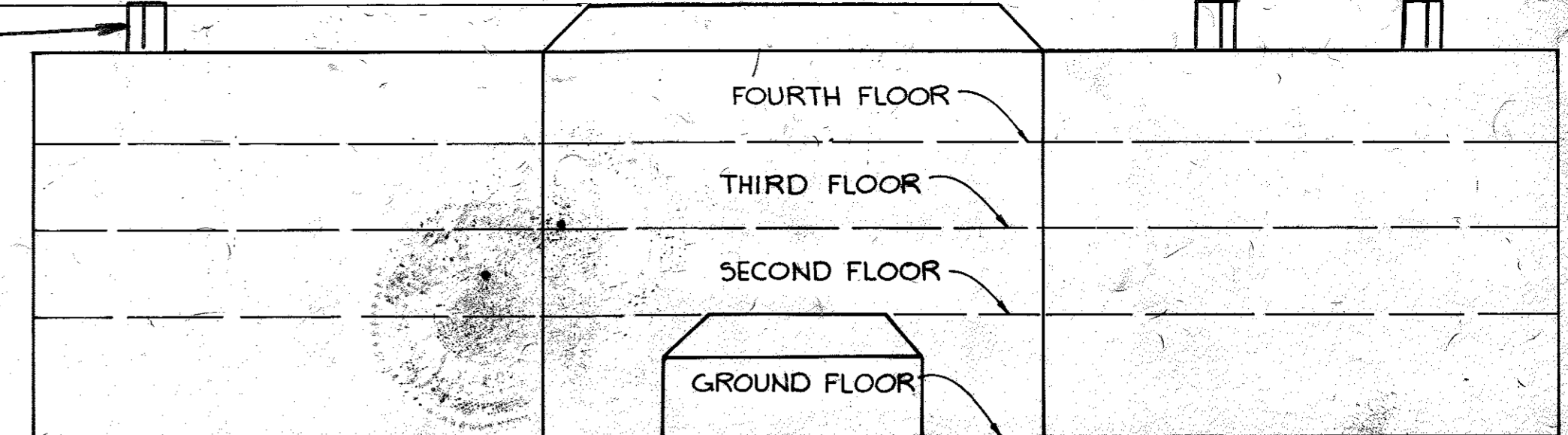
V.O.M.  
SECTION 3 AREA I  
PARCEL F  
P-4108

2 PROPOSED VERIZON WIRELESS ANTENNA SECTOR ON STEEL FRAME WITH RF SCREENING TO MATCH EXISTING FACADE (4 ANTENNAS PER SECTOR, TYP. OF 3 SECTORS)

2 PROPOSED VERIZON WIRELESS TELECOMMUNICATIONS FACILITY (288 SQ. FT.)

1 PROPOSED LANDSCAPED SCREENING

- 1 PROPOSED LANDSCAPED SCREENING
- 1 PROPOSED VERIZON WIRELESS TELECOMMUNICATIONS FACILITY
- 1 PROPOSED SIDEWALK
- 2 PROPOSED VERIZON WIRELESS ANTENNA SECTOR ON STEEL FRAME WITH RF SCREENING TO MATCH EXISTING FACADE (4 ANTENNAS PER SECTOR, TYP. OF 3 SECTORS)



**NORTH ELEVATION**  
NO SCALE

SEAL:

JIANG YU  
PROFESSIONAL ENGINEER  
MD LICENSE NO. 46030

RECORD PLAT RECORDING REFERENCE NO. 4107

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

*J. M. ...* 5-11-82  
JUNIOR HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*John W. ...* 5-11-82  
PLANNING DIRECTOR, Acting DATE

*John W. ...* 5-11-82  
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

*George F. ...* 5-4-82  
DIRECTOR DATE

*William E. ...* 5-3-82  
CHIEF, BUREAU OF ENGINEERING DATE

10/18/16 2 VERIZON WIRELESS EQUIPMENT

6/17/16 1 VERIZON WIRELESS EQUIPMENT

DATE NO. REVISION

OWNER/DEVELOPER  
TWIN KNOLLS SOUTH LIMITED PARTNERSHIP  
SUITE 300, 5570 STERRETT PLACE  
COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF OAKLAND MILLS  
SECTION 3, AREA I  
TWIN KNOLLS SOUTH-PARCEL E

AREA TAX MAP NO. 30  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN

**Riemer-Tracy & Associates, Inc.**  
8659 Baltimore National Pike  
Ellicott City, Maryland 21043  
(301) 461-2690  
Land Planning, Design & Civil Engineering

11-5-81  
DATE

DESIGNED BY: L.J.D.

DRAWN BY: D.A.M.

PROJECT NO: 1481

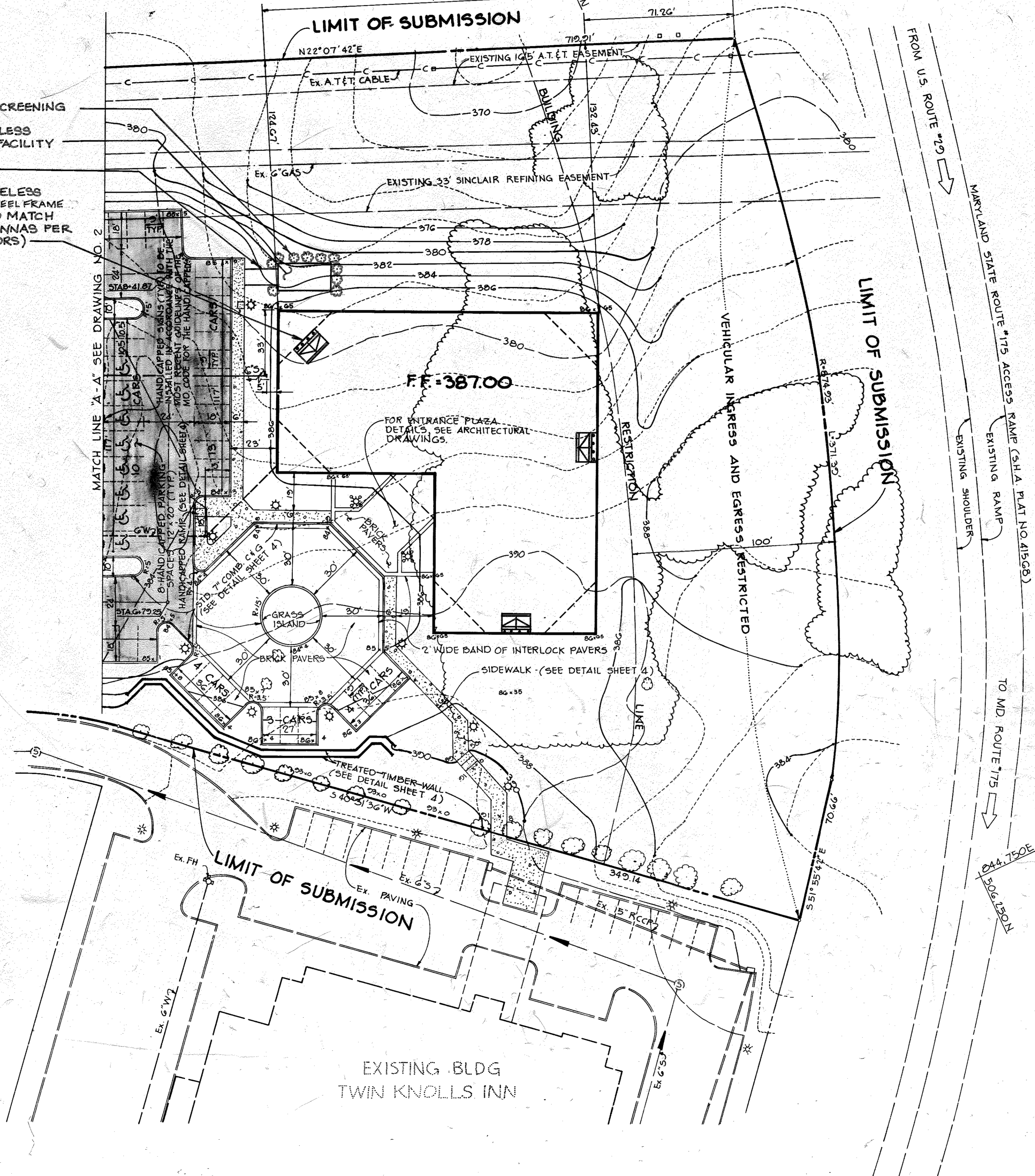
DATE: 11-4-81

SCALE: 1" = 30'

DRAWING NO. 3 OF 9

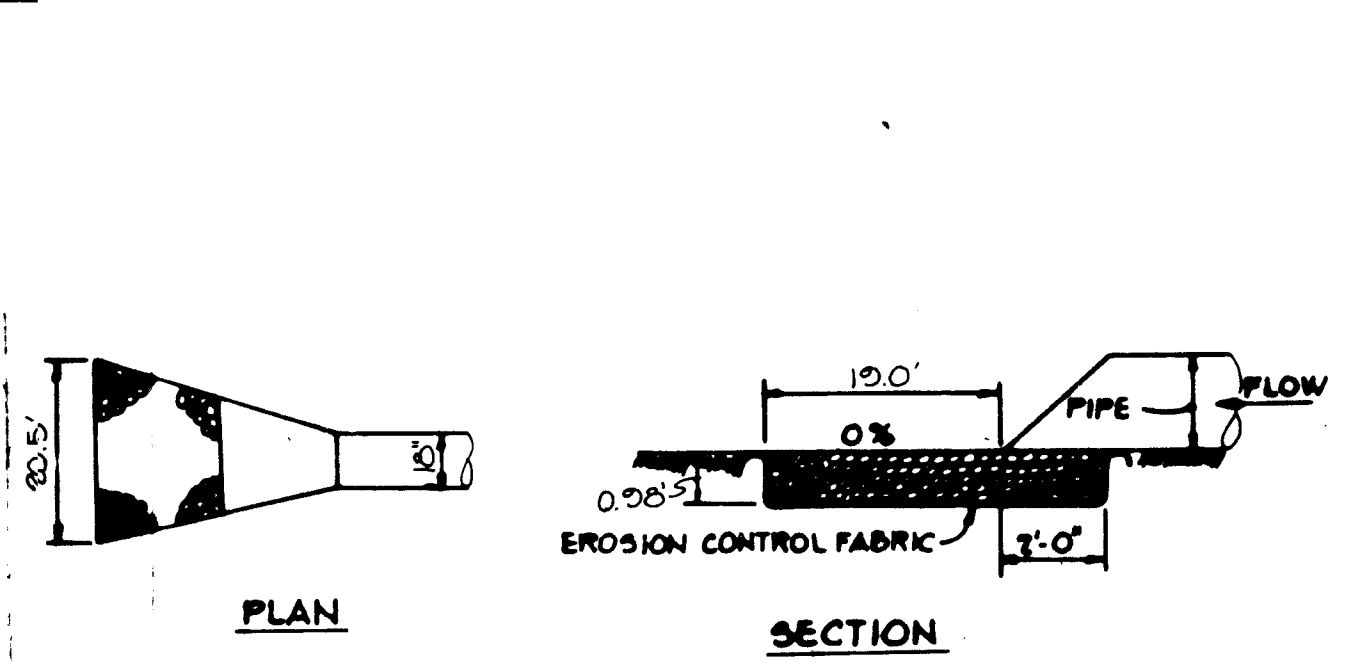
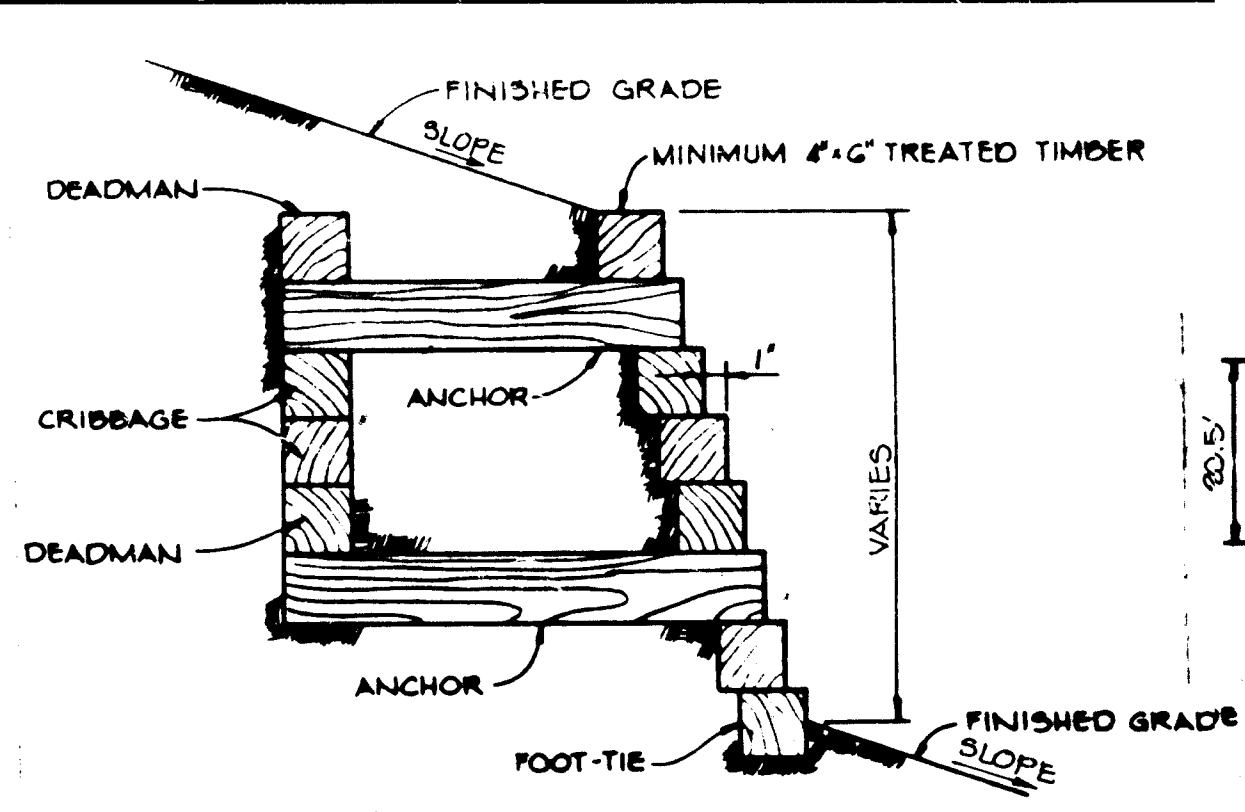
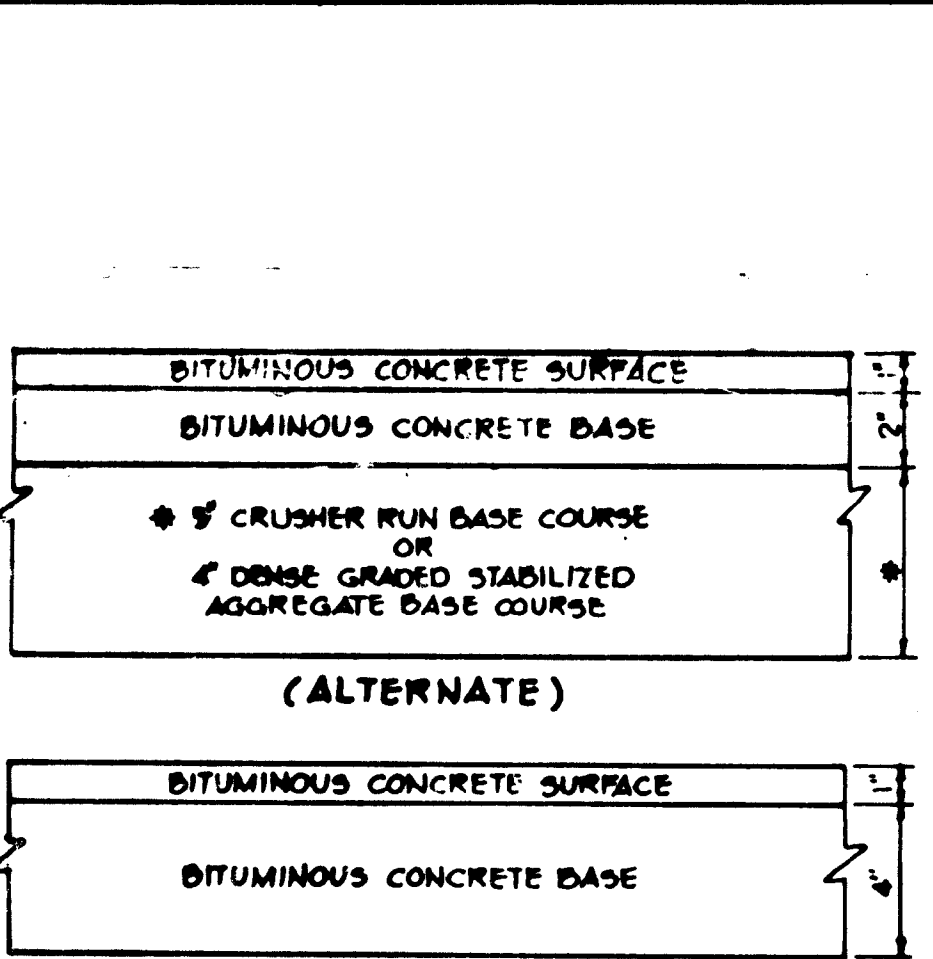
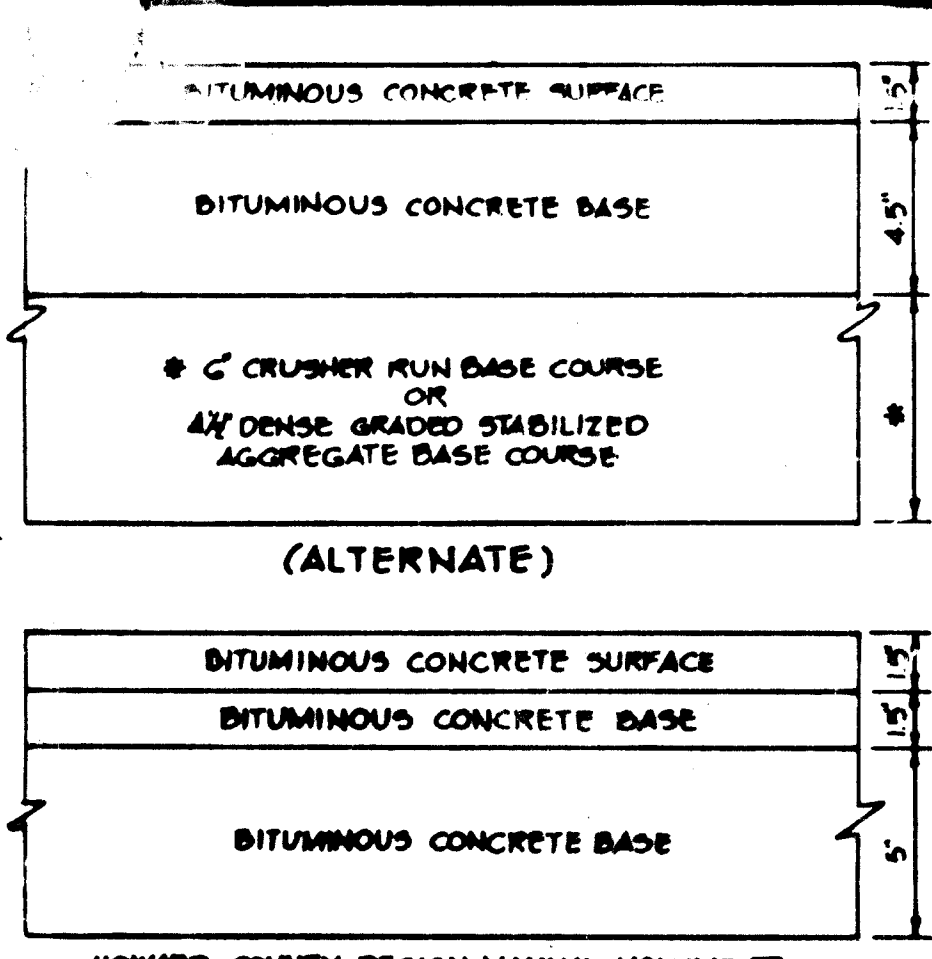
APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-16-81

PROFESSIONAL ENGR. NO. 9566



844.250 E  
505.150 N

844.750 E  
506.150 N



HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)  
**(8" PAVING, P-3)**  
 ENTRANCE DRIVEWAY & TRAVELWAYS

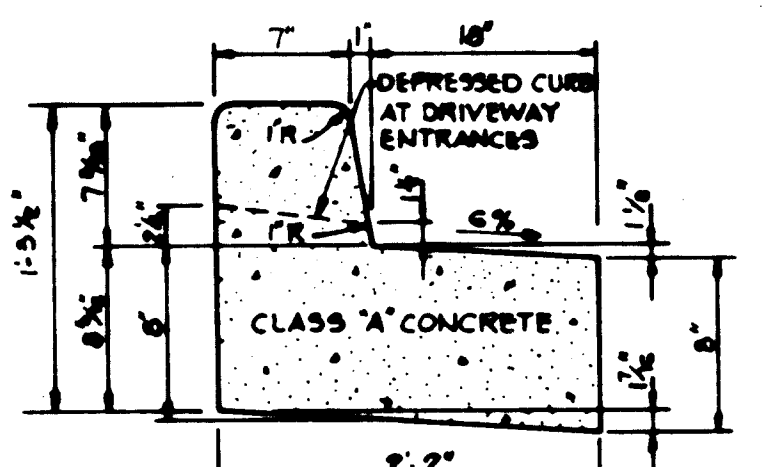
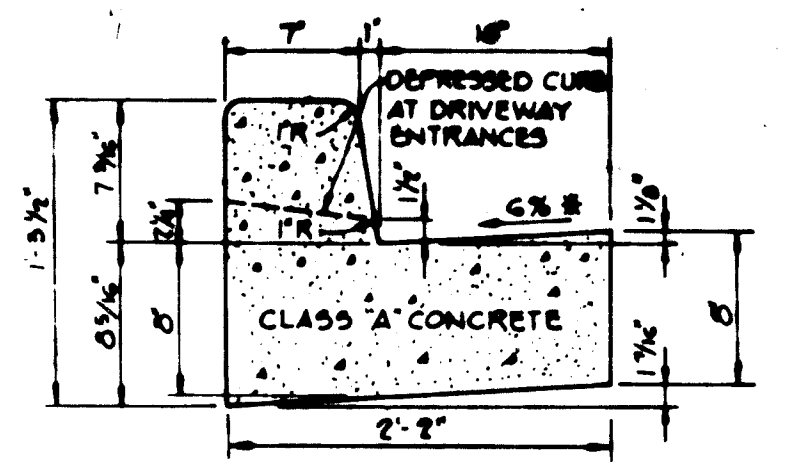
HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)  
**(5" PAVING, P-1)**  
 PARKING AREAS

**TREATED TIMBER RETAINING WALL**  
 No Scale

**OUTLET PROTECTION DETAIL**  
 NO SCALE

\* NOTE: CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES 2 WEEKS PRIOR TO CONSTRUCTION

**TYPICAL PAVING SECTION**  
 No Scale

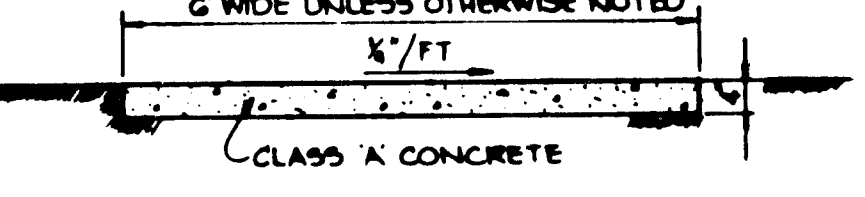
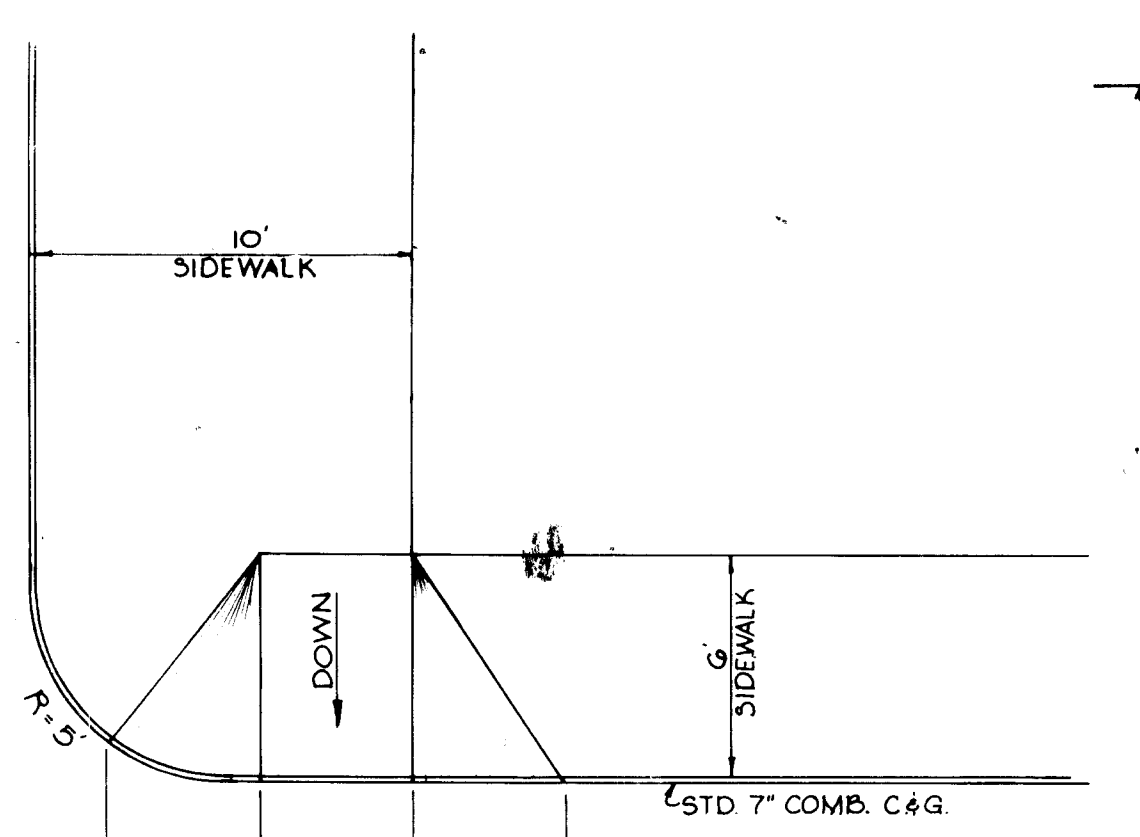


HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-8.01)  
 \* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

HOWARD COUNTY DESIGN MANUAL VOLUME IX - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-8.01)

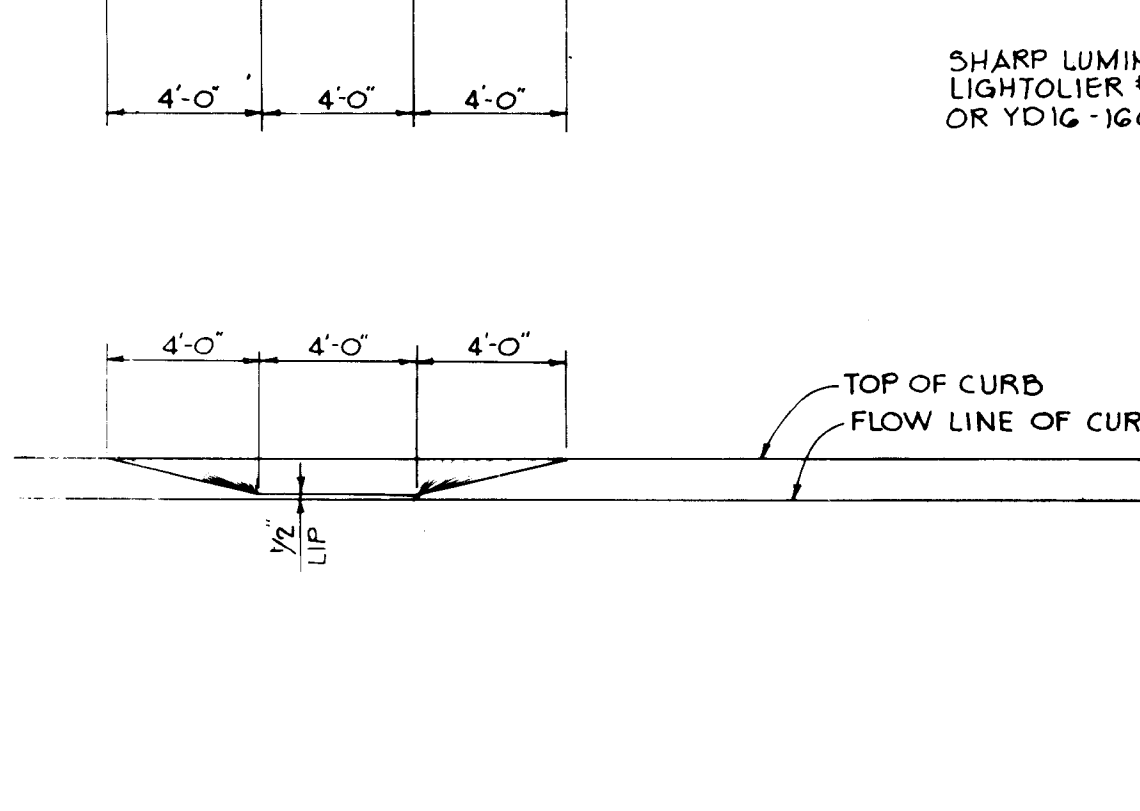
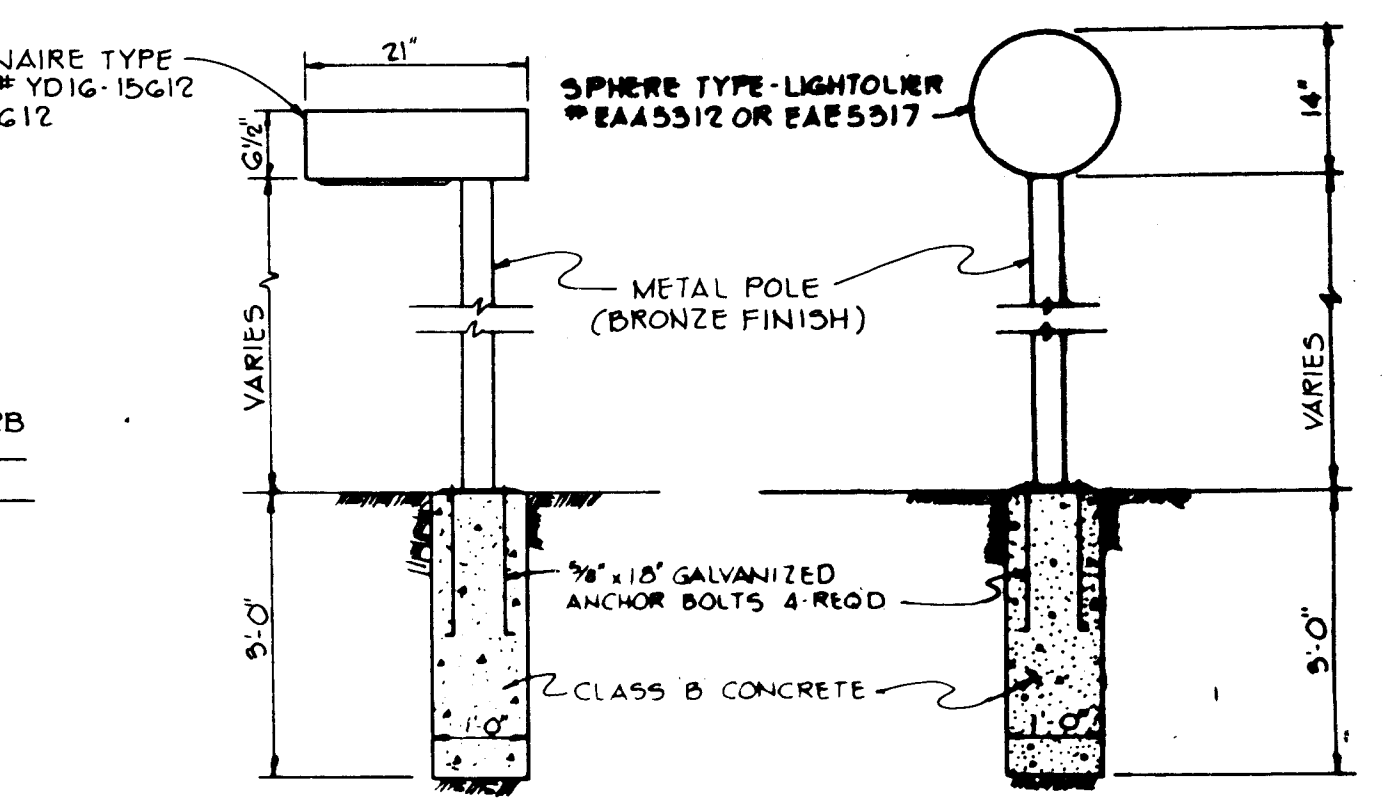
**STANDARD 7" COMBINATION CURB AND GUTTER**  
 No Scale

**REVERSE 7" COMBINATION CURB AND GUTTER**  
 No Scale



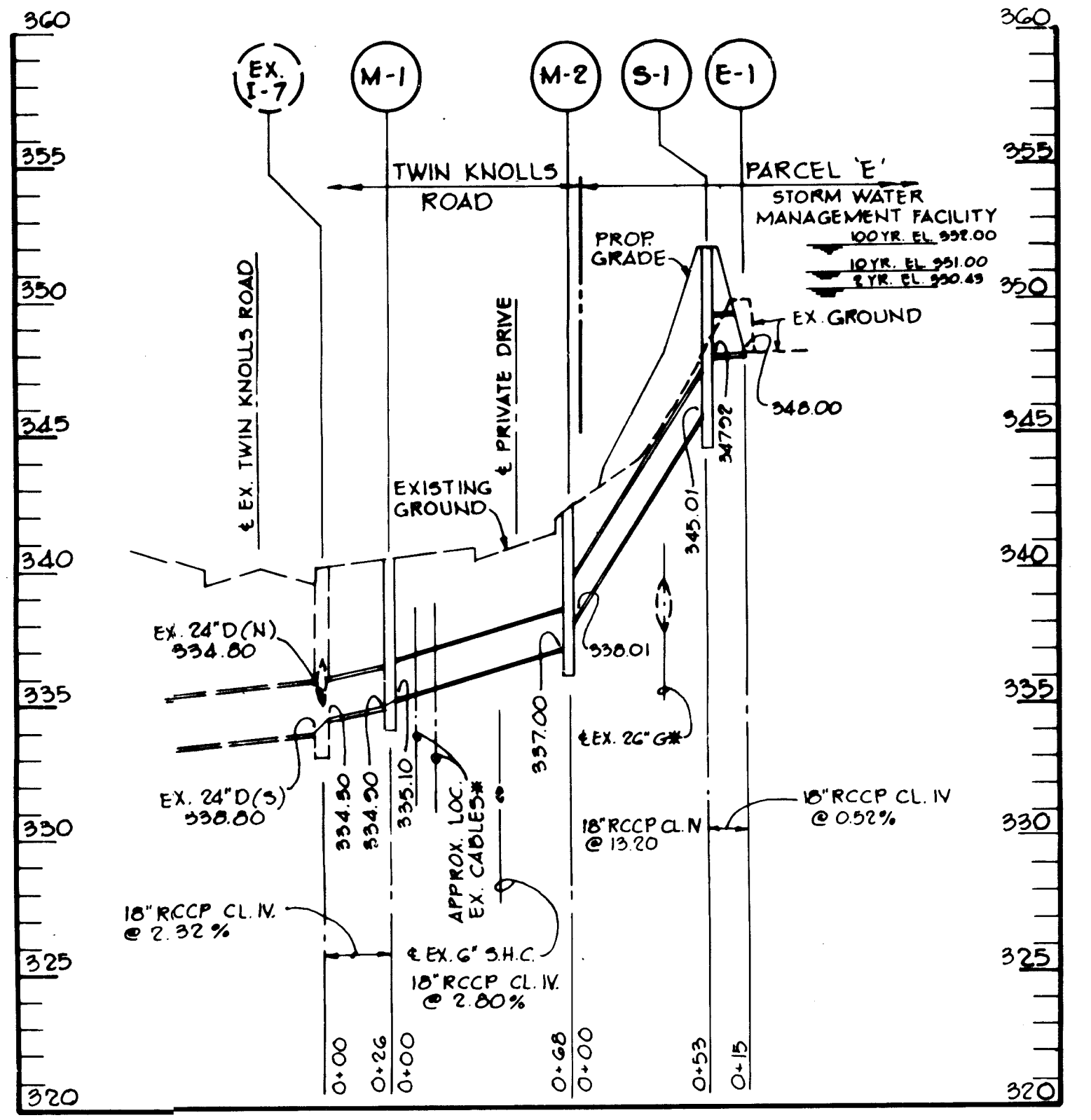
**SIDEWALK DETAIL**  
 No Scale

NOTE:  
 ALL LIGHT FIXTURES TO BE MERCURY TYPE OR METAL HALIDE OF VARIOUS HEIGHTS WITH METAL POLE AND DIRECTED DOWNWARD. LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THUS:  $\odot$  SHARP CUT-OFF LUMINAIRE - 25' POLE - SINGLE OR DOUBLE - 250 WATT MERCURY OR METAL HALIDE  
 $\odot$  SINGLE POLE MOUNTED SPHERE - 10' POLE - 75 WATT MERCURY - CLEAR ACRYLIC SPHERE (14" DIA.)  
 $\odot$  MULTIPLE POLE MOUNTED SPHERE - 10' POLE - 75 WATT MERCURY - CLEAR ACRYLIC SPHERE (14" DIA.)

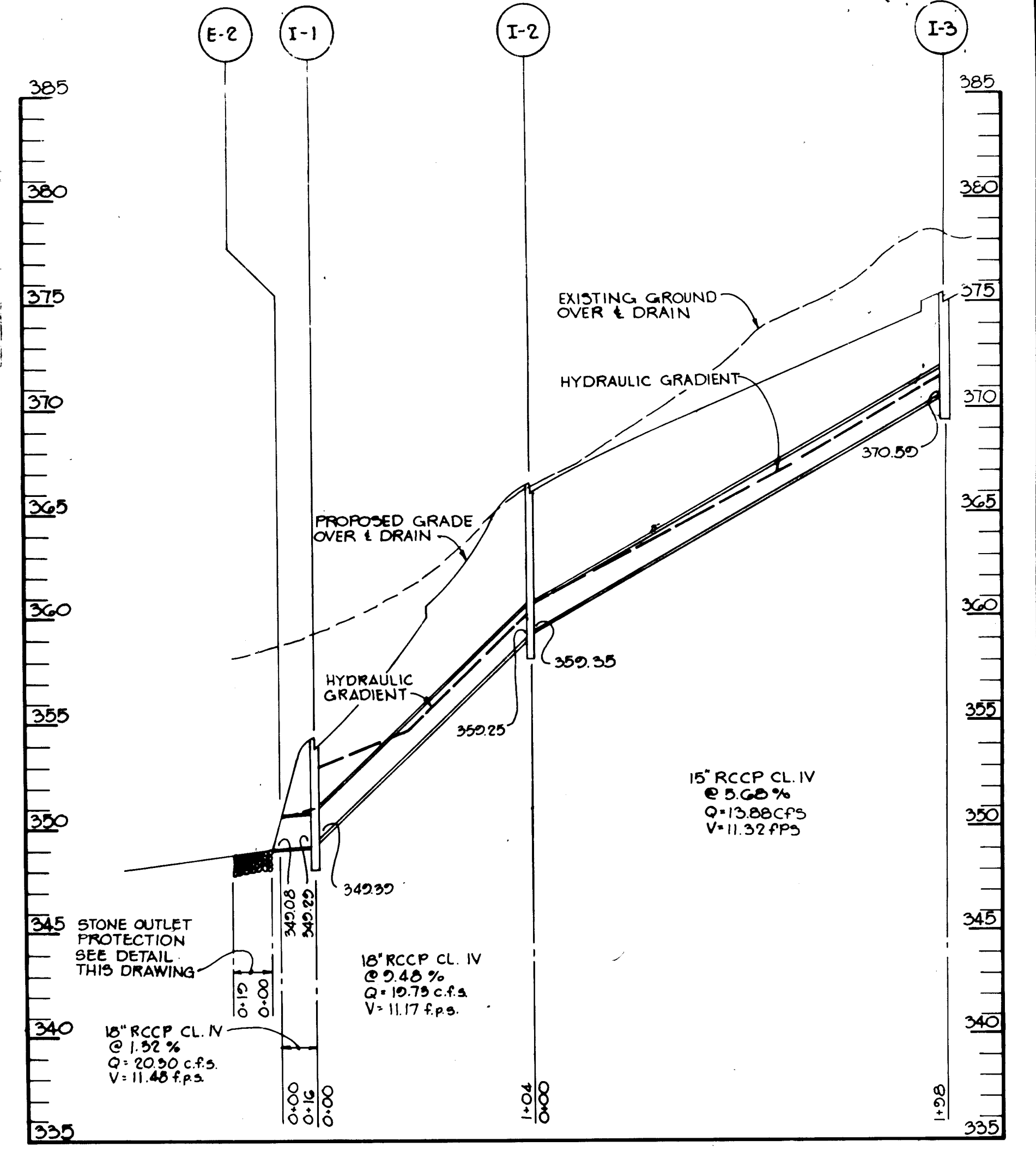


**HANDICAP RAMP**  
 No Scale

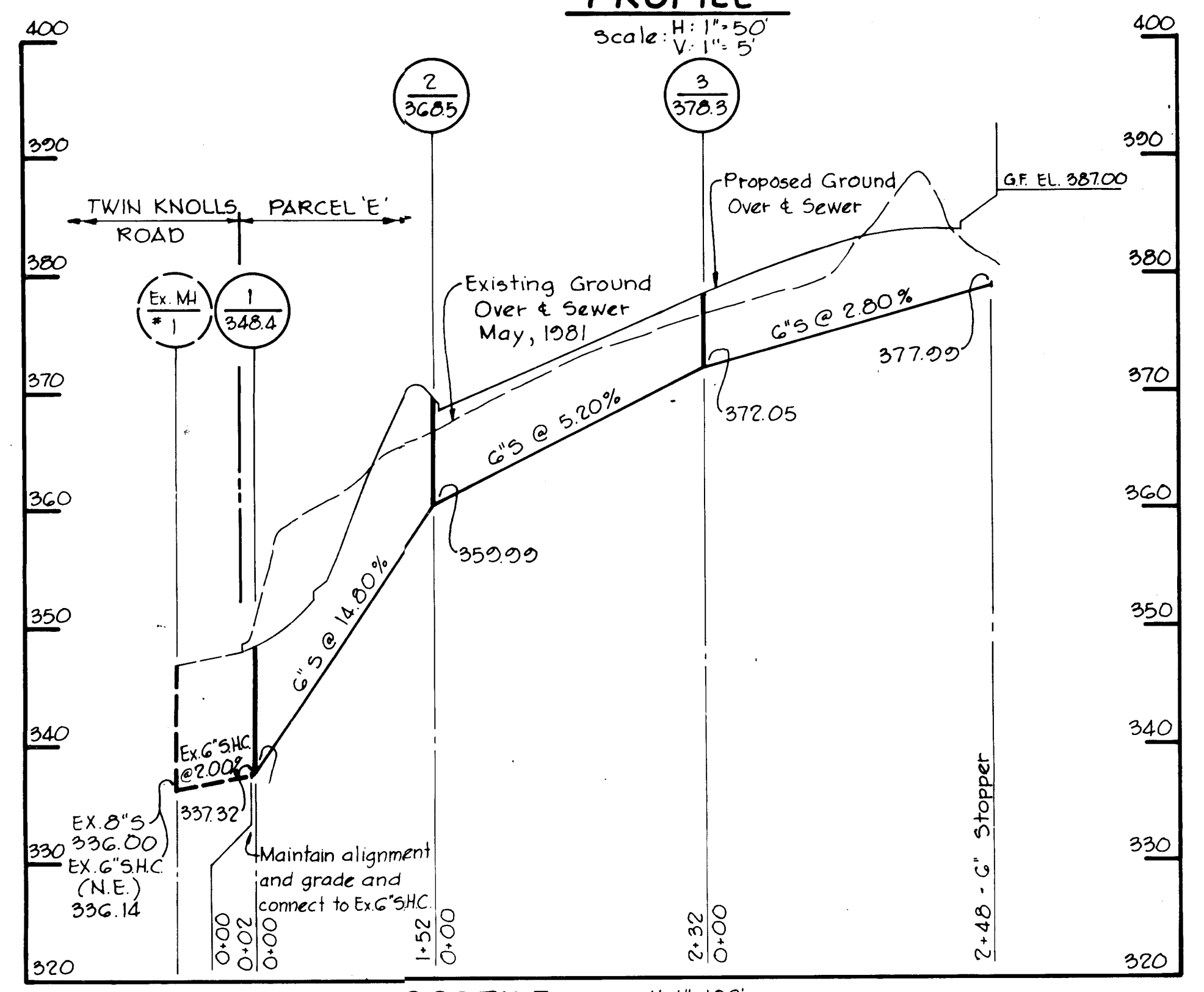
**PARKING LOT LIGHTING**  
 No Scale



**PROFILE**  
 Scale: H: 1" = 50', V: 1" = 5'



**PROFILE**  
 Scale: H: 1" = 50', V: 1" = 5'



**PROFILE** Scale: H: 1" = 100', V: 1" = 10'

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: **12-16-81**  
*JMM*

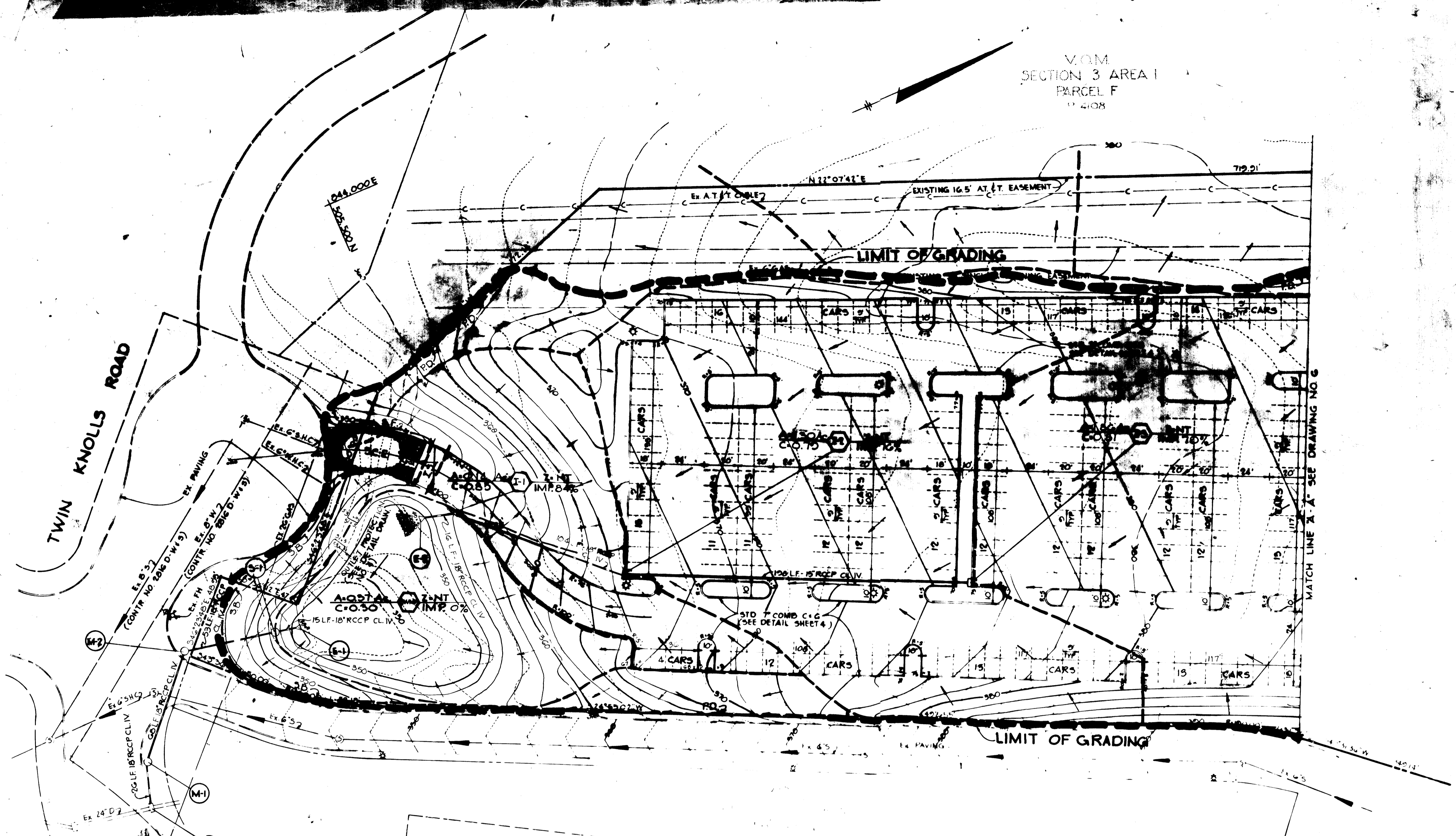
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*James J. ...* COUNTY HEALTH OFFICER DATE: 5-11-82  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*John W. ...* PLANNING DIRECTOR DATE: 5-11-82  
*John W. ...* CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 5-11-82  
 APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John W. ...* DIRECTOR DATE: 5-4-82  
*James E. ...* CHIEF, BUREAU OF ENGINEERING DATE: 5-3-82

DATE	NO.	REVISION
OWNER/DEVELOPER		
TWIN KNOLLS SOUTH LIMITED PARTNERSHIP SUITE 300, 5570 STERRETT PLACE COLUMBIA, MARYLAND 21044		
PROJECT:		
VILLAGE OF OAKLAND MILLS SECTION 3, AREA 1 TWIN KNOLLS SOUTH-PARCEL E		
AREA:		
TAX MAP NO 30 G-TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE:		
DETAILS AND STORM DRAIN PROFILES		
<b>Riemer - Tracy &amp; Associates, Inc.</b> 8659 Baltimore National Pike Ellicott City, Maryland 21043 (301) 461-2690 Land Planning, Design & Civil Engineering		
DATE: 11-5-81		
DESIGNED BY: RJW		
DRAWN BY: DAM		
PROJECT NO: 1481		
DATE: 11-4-81		
SCALE: AS SHOWN		
DRAWING NO: 4 OF 9		

SDP-82-58c

APRIL 23, 1982

V.O.M.  
SECTION 3 AREA 1  
PARCEL F  
11-408



THE DEVELOPER:  
I HEREBY 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.  
*Peter Issel* 11-5-81  
PETER ISSEL DATE

BY THE ENGINEER:  
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 SOIL CONSERVATION DISTRICT.  
*James K. Tracy* 11-5-81  
JAMES K. TRACY DATE

REVIEWED FOR: *James K. Tracy* S.C.D.  
AND NEARBY TECHNICAL REQUIREMENTS  
*James K. Tracy* 4-28-82  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*William S. C. D.* 4-28-82  
HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*John F. Neumaier* 5-11-82  
JOHN F. NEUMAIER DATE  
HEALTH DEPARTMENT OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Madsen* 5-11-82  
PLANNING DIRECTOR DATE  
*John W. Madsen* 5-11-82  
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  
*John F. Neumaier* 4-8-82  
DIRECTOR DATE  
*William S. C. D.* 5-3-82  
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER  
TWIN KNOLLS SOUTH LIMITED PARTNERSHIP  
SUITE 300, 5570 STERRETT PLACE  
COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF OAKLAND MILLS  
SECTION 3, AREA 1  
TWIN KNOLLS SOUTH-PARCEL E

AREA: TAX MAP NO 30  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP  
AND SEDIMENT CONTROL PLAN

**Riemer - Tracy & Associates, Inc.**  
8609 Baltimore National Pike  
Ellicott City, Maryland 21043  
(301) 461-2890  
Land Planning Design & Civil Engineering

DATE: 11-5-81  
DESIGNED BY: L.J.D.  
DRAWN BY: D.A.M.  
PROJECT NO: 1401  
DATE: 11-4-81  
SCALE: 1" = 30'  
DRAWING NO. 5 OF 5

PROPERTY OF  
TWIN KNOLLS ASSOCIATES  
1027/560

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 12-16-81  
*JMM*

SEDIMENT TRAP DATA

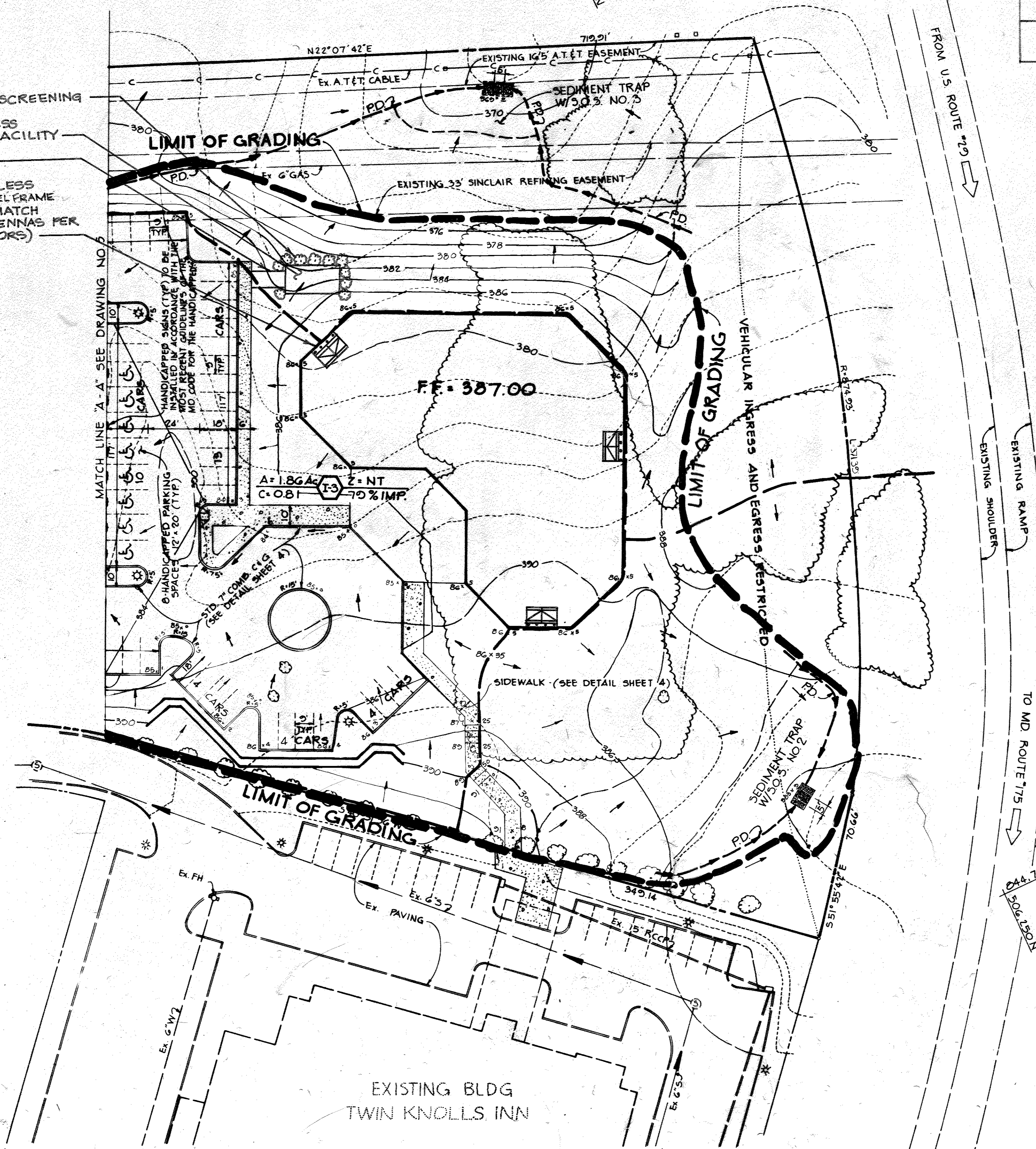
	TRAP NO. 1	TRAP NO. 2	TRAP NO. 3
TOTAL DRAINAGE AREA	4.12 Acres	0.46 Acres	0.54 Acres
DISTURBED AREA	4.12 Acres	0.46 Acres	0.54 Acres
VOLUME:			
REQUIRED	276 C.Y.	31 C.Y.	24 C.Y.
AVAILABLE	709 C.Y.	99 C.Y.	94 C.Y.
CREST ELEVATION	349.50	386.25	371.00
BOTTOM ELEVATION	346.00	385.00	369.00
CLEANOUT ELEVATION	347.75	385.07	370.00
BOTTOM DIMENSIONS	Triangular 90' x 105'	Triangular 25' x 120'	Triangular 20' x 65'

ITEM	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEVATION	REMARK
I-1	A-5 Inlet	@ Sta. 1+42; 12' RT	349.90	349.20	359.0*	Std. Detail SD-4.01
I-2	A-5 Inlet	See Plan	359.35	359.25	366.20*	Std. Detail SD-4.01
I-3	A-10 Inlet	See Plan	-	370.59	375.00*	Std. Detail SD-4.02
E-2	18" Conc. End Section	@ Sta. 1+25; 29' RT	-	340.08	-	Std. Detail SD-5.51
E-1	18" Conc. End Section	See Plan	348.00	-	-	Std. Detail SD-5.51
M-1	Manhole A-3	See Plan	335.10	334.90	Set to Ex. Ground	Std. Detail SD-3.02
S-1	S.W.M. Control Structure	See Plan	347.92	345.01	359.00	See Detail on Drawing No. 7
M-2	Manhole A-3	See Plan	338.01	337.00	342.3	Std. Detail SD-3.02

\*Elevations at throat openings.

V.O.M.  
SECTION 3, AREA 1  
PARCEL F  
P-4108

- ▲ PROPOSED LANDSCAPED SCREENING
- ▲ PROPOSED VERIZON WIRELESS TELECOMMUNICATIONS FACILITY
- ▲ PROPOSED SIDEWALK
- ▲ PROPOSED VERIZON WIRELESS ANTENNA SECTOR ON STEEL FRAME WITH R.F. SCREENING TO MATCH EXISTING FACADE (4 ANTENNAS PER SECTOR, TYP. OF 3 SECTORS)



SEAL:  
  
JIANG YU  
PROFESSIONAL ENGINEER  
MD LICENSE NO. 46030

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."  
*Peter Isseel*  
PETER ISSEEL  
11-5-81  
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."  
*James K. Tracy*  
JAMES K. TRACY  
11-5-81  
DATE

REVIEWED FOR *Howard* S.C.D.  
NAME  
AND MEETS TECHNICAL REQUIREMENTS  
*James M. Hahn*  
JAMES M. HAHN  
4-26-82  
U.S. SOIL CONSERVATION SERVICE DATE

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*William T. Rowe*  
WILLIAM T. ROWE  
HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*Joanna Boyd*  
JOANNA BOYD  
COUNTY HEALTH OFFICER 5-1-82  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*Shirley M. Madigan*  
SHIRLEY M. MADIGAN  
PLANNING DIRECTOR, Acting 5-1-82  
DATE  
*Shirley M. Madigan*  
SHIRLEY M. MADIGAN  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 5-1-82  
DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*May F. Henning*  
MAY F. HENNING  
DIRECTOR 5-8-82  
DATE  
*William E. Rely*  
WILLIAM E. RELY  
CHIEF, BUREAU OF ENGINEERING 5-8-82  
DATE

10/18/81	2	VERIZON WIRELESS EQUIPMENT
6/17/81	1	VERIZON WIRELESS EQUIPMENT
DATE NO.		REVISION

OWNER/DEVELOPER  
TWIN KNOLLS SOUTH LIMITED PARTNERSHIP  
SUITE 300, 5570 STERRETT PLACE  
COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF OAKLAND MILLS  
SECTION 3, AREA 1  
TWIN KNOLLS SOUTH-PARCEL E

AREA: TAX MAP NO. 30  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP  
AND SEDIMENT CONTROL PLAN

**Riemer-Tracy & Associates, Inc.**  
8659 Baltimore National Pike  
Ellicott City, Maryland 21043  
(301) 461-2800  
Land Planning, Design & Civil Engineering

11-5-81  
DATE  
  
DESIGNED BY: L.J.D.  
DRAWN BY: D.A.M.  
PROJECT NO: 1481  
DATE: 11/4/81  
SCALE: 1"=30'  
DRAWING NO. 6 OF 9  
PROFESSIONAL ENGR. NO. 9596

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 12-16-81

**SEDIMENT CONTROL CONSTRUCTION NOTES**  
GENERAL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2070).
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- 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.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
- SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRUBBING REMAINDER OF SITE.

**TEMPORARY SEEDING**

AREA TO BE SEEDDED SHALL BE RECENTLY LOOSENEDED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEDED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 500 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
- WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
- WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, MULTIPACKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
- MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

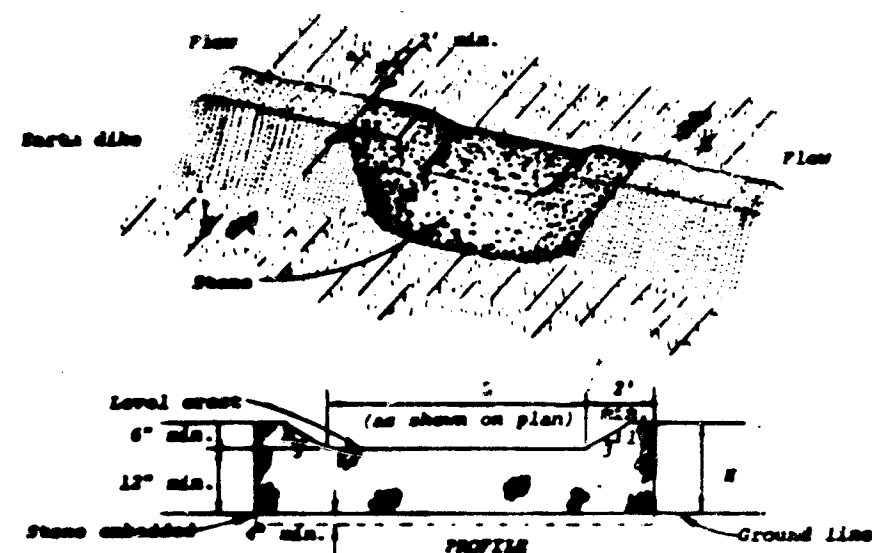
**PERMANENT SEEDING**

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
- APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
- SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS - 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
- MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
- SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND STRAW BALE DIKE.
- INSTALL SEDIMENT TRAPS NO. 1, 2 AND 3, PERIMETER DIKES AND INTERCEPTOR SWALE AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- GRADE THE ENTIRE SITE AS PER THE GRADING SHOWN ON THE SITE DEVELOPMENT PLAN.
- CONSTRUCT BUILDING AND ALL UTILITIES.
- INSTALL THE CONCRETE CURB AND GUTTER AND PAVING.
- STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- FLUSH STORM DRAINS TO REMOVE ALL SILT.
- UPON APPROVAL OF THE SOIL CONSERVATION INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND CONVERT SEDIMENT POND TO STORM WATER MANAGEMENT FACILITY AS FOLLOWS:
  - PUMP OUT IMPOUNDED WATER.
  - REMOVE SILT AND STONE FILTER AND RESTORE BASIN TO ORIGINAL DIMENSIONS.
  - REMOVED SILT SHALL BE SPREAD IN SOUTHWEST CORNER OF SITE AND STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

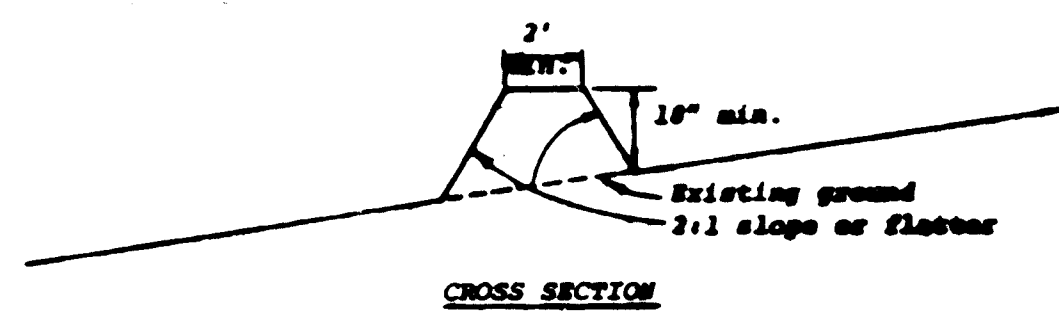


**Construction Specifications**

- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MMS Size No. 2 or ASTM designation M33 Size No. 2 or 3.
- The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the curb and shall be level.
- The stone outlet structure shall be embedded into the soil a minimum of four inches.
- The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
- The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stones, voiding, construction traffic damage, etc.

**STONE OUTLET STRUCTURE**

No Scale



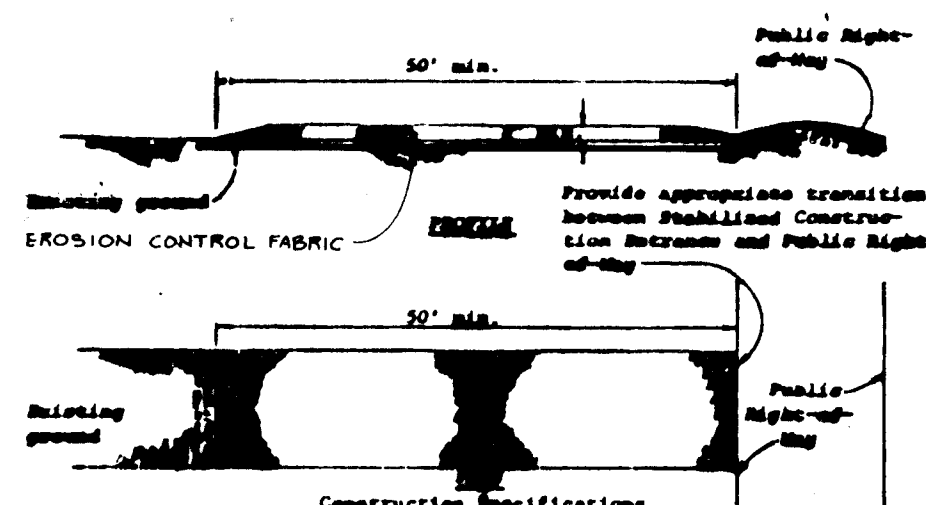
**PLAN VIEW**

**Construction Specifications**

- All dikes shall be machine compacted.
- All perimeter dikes shall have positive drainage to an outlet.
- Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or onto 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, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
- Periodic inspection and required maintenance shall be provided.

**PERIMETER DIKE**

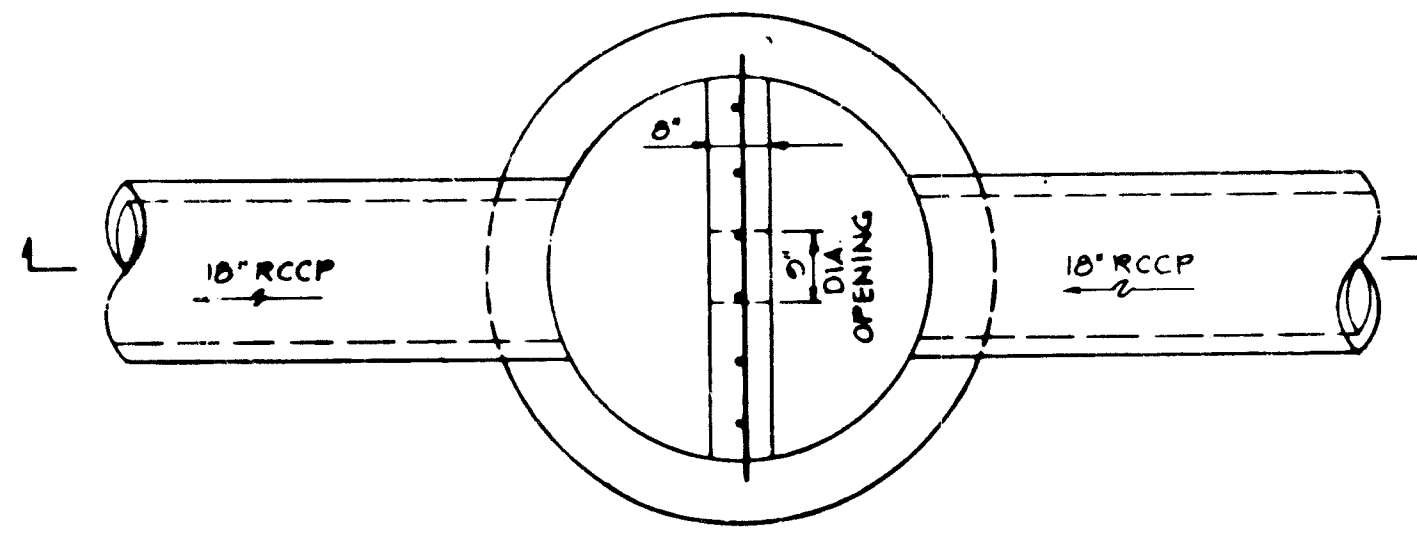
No Scale



- Stone size - Use MMS size No. 2 (2-1/2" to 1") or ASTM designation M33, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
- Length - As effective, but not less than 50 feet.
- Thickness - Not less than eight (8) inches.
- Width - Not less than full width of all points of ingress or egress.
- Working - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When working is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or placement of any material used to trap sediment. All sediment spilled, dropped, washed or crushed onto public right-of-way must be removed immediately.

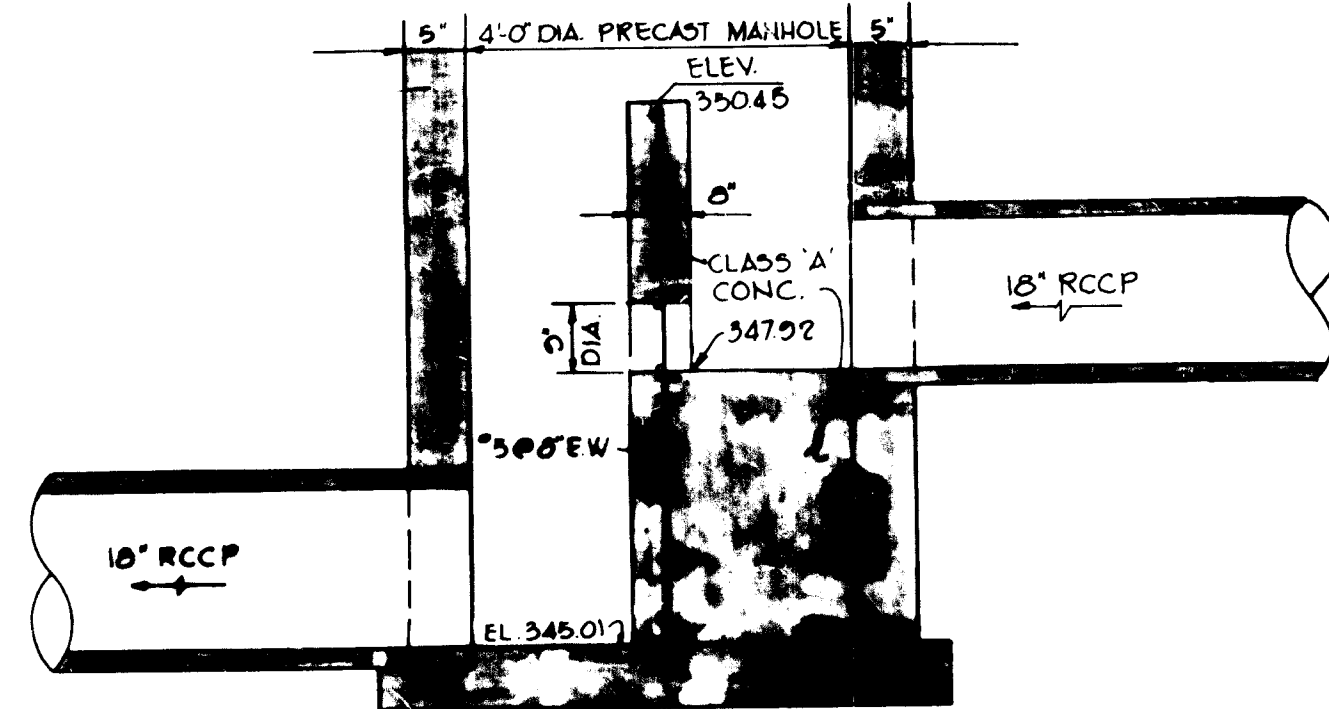
**STABILIZED CONSTRUCTION ENTRANCE**

No Scale



**PLAN**

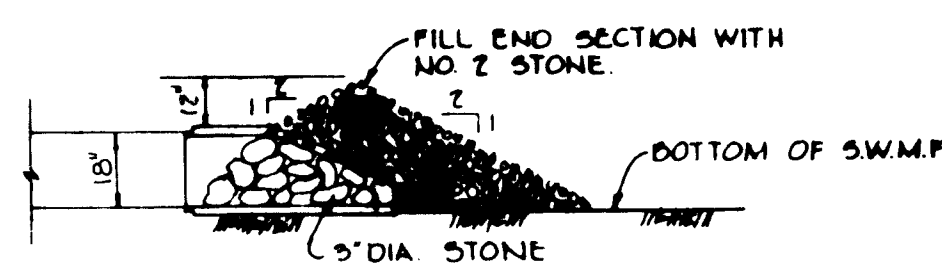
NOTE: CARRY REINFORCING STEEL INTO WALLS AND BASE. GROUT AROUND STEEL PRIOR TO POURING WEIR.



**SECTION**

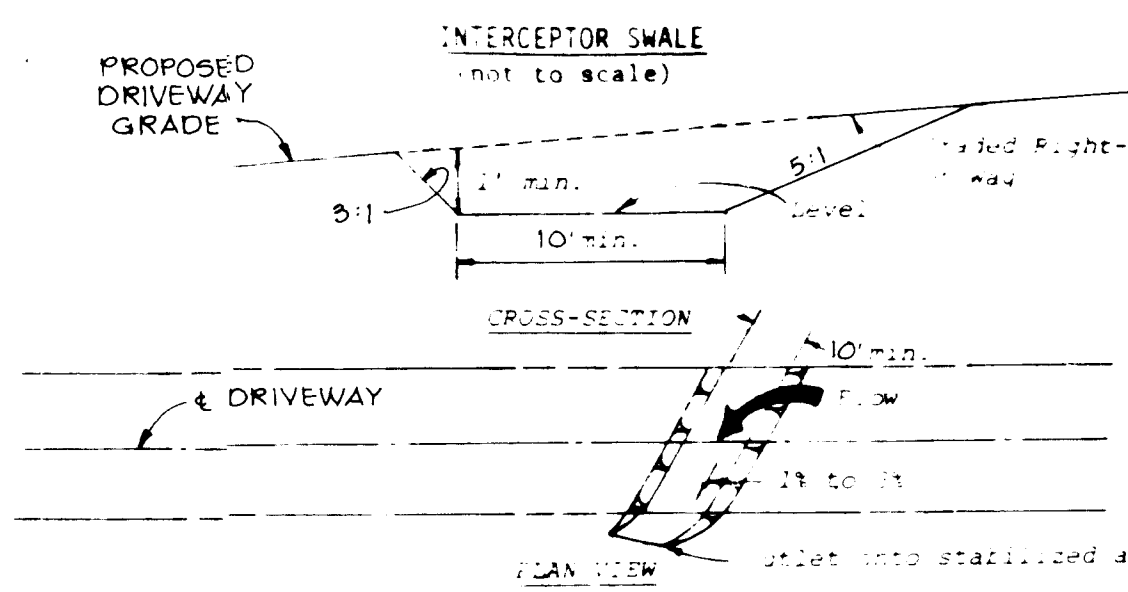
**DETAIL - STORM WATER MANAGEMENT CONTROL STRUCTURE S-1**

No Scale



**DETAIL OF SEDIMENT CONTROL @ E-1**

No Scale



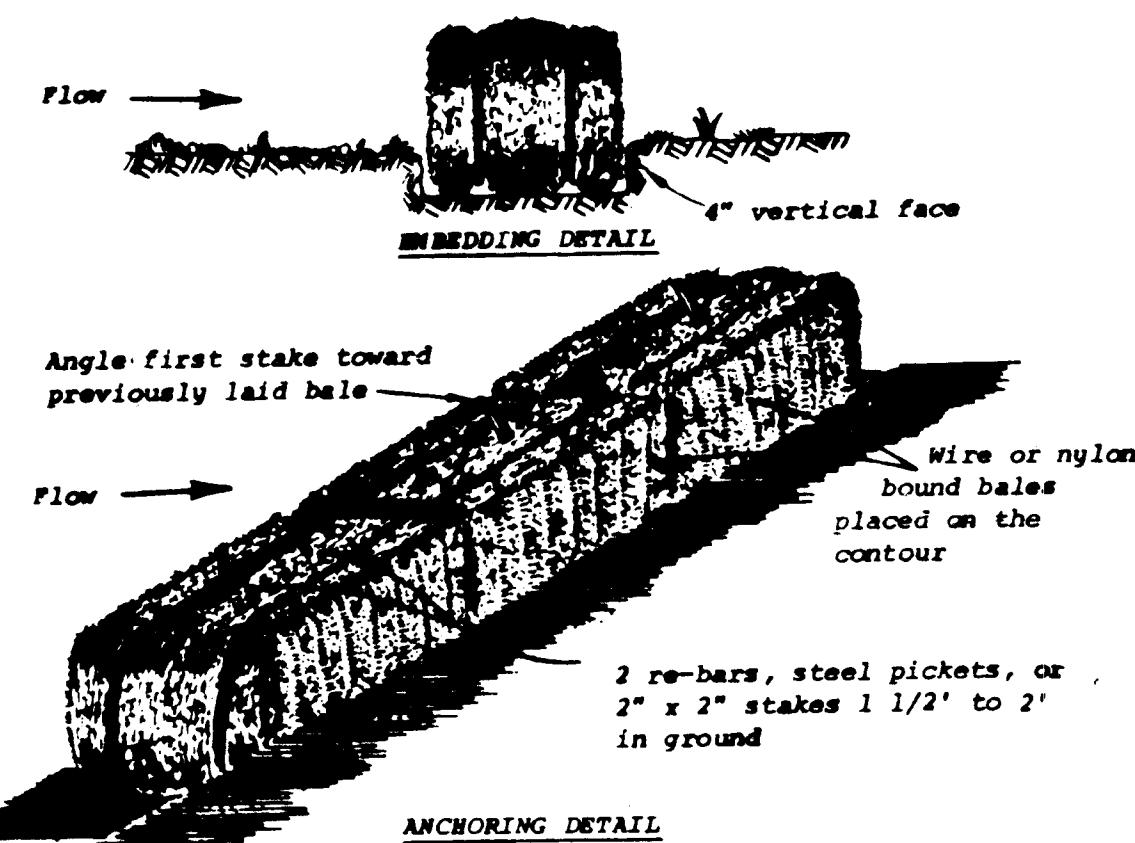
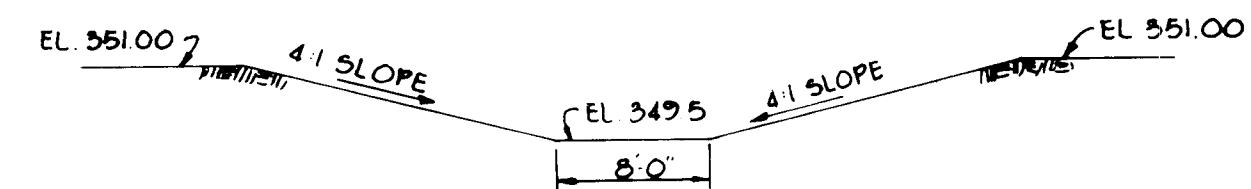
**Construction Specifications**

- All trees, brush, stumps, obstructions, and other obtrusive material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
- The swale shall be excavated or shaped to line grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fills shall be compacted as needed to prevent unequal settlement that would cause damage to the complete swale.
- All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the swale.
- Interceptor swales shall have a minimum grade of one percent and the bottom shall be level.
- An interceptor swale shall have an outlet that functions with a minimum of efficiency.
- Swales shall be equipped with sediment trapping devices such as a sediment trap or sediment basin.
- The onsite location must not be disturbed to meet field conditions in order to utilize the most suitable outlet.
- Stabilization shall be provided in accordance with the Standard and Specifications for Grassed Waterway or as required by the site plan. The area with stone that meets MMS size No. 2 or ASTM size No. 2 or 3 shall be in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides if the channel is less than 4 inches in width and up both sides if the channel is 4 inches or more in width.
- Periodic inspection and required maintenance shall be provided.

Standard Symbol

**SECONDARY EMERGENCY SPILLWAY SECTION**

No Scale



**Construction Specifications**

- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4".
- Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
- Inspection shall be frequent and repair or replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

Standard Symbol

Drainage area less than 1/2 acre.

**STRAW BALE DIKE**

No Scale

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

*Josephine Boyles*  
COUNTY HEALTH OFFICER  
DATE 5-11-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*William H. Bushman*  
PLANNING DIRECTOR  
DATE 5-11-82

*William H. Bushman*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE 5-11-82

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William H. Bushman*  
DIRECTOR  
DATE 5-11-82

*William H. Bushman*  
CHIEF, BUREAU OF ENGINEERING  
DATE 5-11-82

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 THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

*Peter Tessel*  
PETER TESSEL  
DATE 11-5-81

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."

*James K. Tracy*  
JAMES K. TRACY  
DATE 11-5-81

REVIEWED FOR: HOWARD COUNTY S.C.D.  
NAME  
AND MEETS TECHNICAL REQUIREMENTS

*James K. Tracy*  
U.S. SOIL CONSERVATION SERVICE  
DATE

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

HOWARD S.C.D.  
DATE

DATE NO REVISION

OWNER/DEVELOPER

TWIN KNOLLS SOUTH LIMITED PARTNERSHIP  
SUITE 300, 5570 STERRETT PLACE  
COLUMBIA, MARYLAND 21044

PROJECT: VILLAGE OF OAKLAND MILLS SECTION 3, AREA 1  
TWIN KNOLLS SOUTH-PARCEL E

AREA TAX MAP NO. 30  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: STORM WATER MANAGEMENT AND SEDIMENT CONTROL DETAILS AND NOTES

**Riemer - Tracy & Associates, Inc.**  
8600 Beltsville National Pike  
BETHESDA, MARYLAND 20814  
(301) 481-2600  
Land Planning, Design & Civil Engineering

DATE 11-5-81

DESIGNED BY: J.K.T.

DRAWN BY: D.A.M.

PROJECT NO: 1481

DATE: 11-4-81

SCALE: AS SHOWN

DRAWING NO 7 OF 9

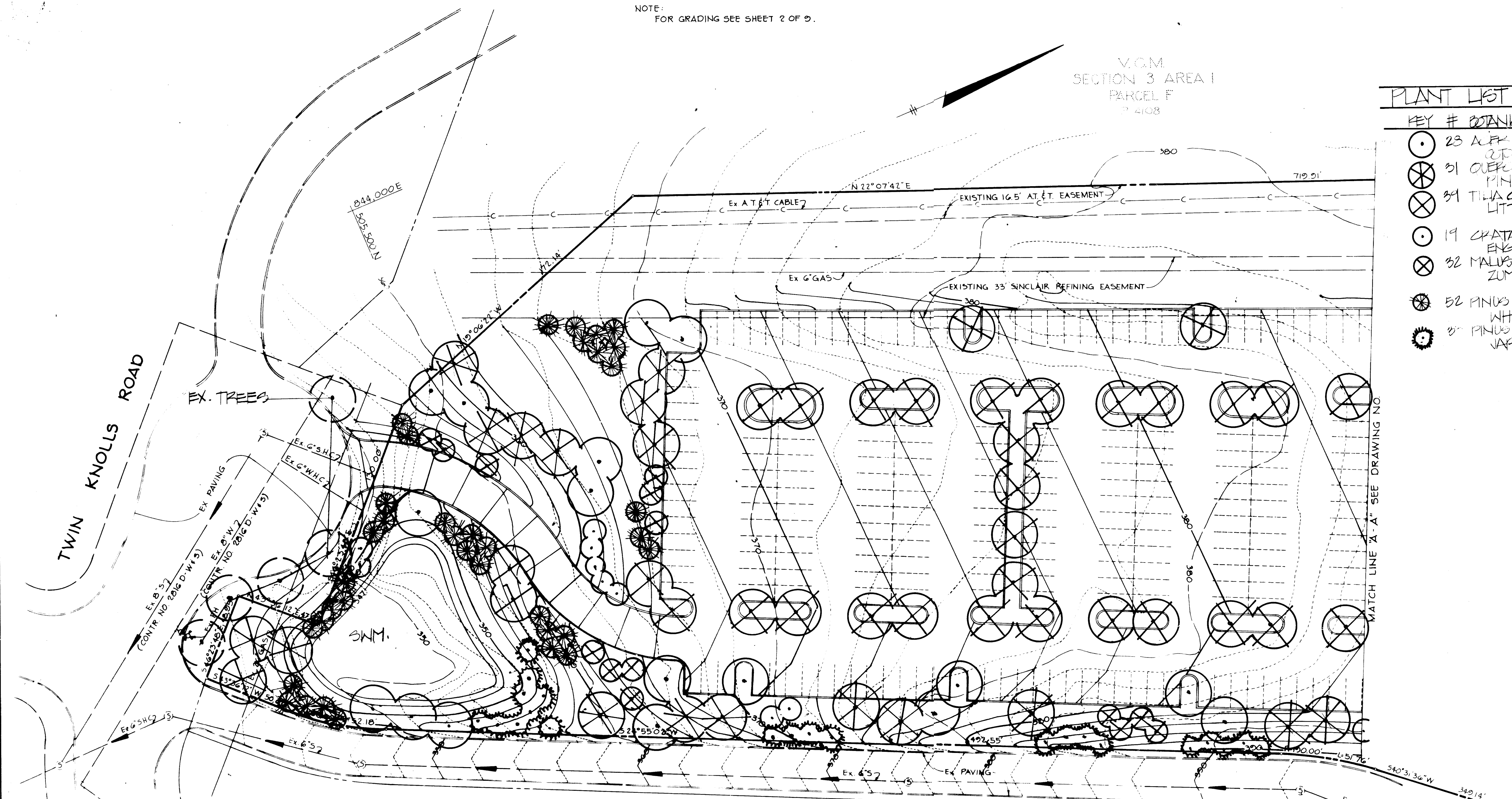
*James K. Tracy*  
PROFESSIONAL ENGR. NO. 9566

NOTE:  
FOR GRADING SEE SHEET 2 OF 2.

V.O.M.  
SECTION 3 AREA I  
PARCEL F  
P-408

PLANT LIST

KEY #	BOTANICAL COMMON NAME	SIZE
23	ALFA PURPURA (OT. GLEY) RITZ REF. GLOPY MAPLE	2 1/2" - 3" CAL. 13-15' HT. 2-4-8
31	QUERCUS ALB. THUS PIN OAK	2 1/2" - 3" CAL. 12-14' HT. 2-4-8
34	TILIA CORDATA LITTLELEAF LINDEN	2 1/2" - 3" CAL. 12-14' HT. 2-4-8
19	CHATAEGUS PHAENOPYRUM ENGLISH HAWTHORN	2 - 2 1/2" CAL. 8-10' HT. 2-4-8
32	MALUS ZUMI CALICATA ZUMI CHERRY	2 - 2 1/2" CAL. 8-10' HT. 2-4-8
52	PINUS STROBUS WHITE PINE	2 - 2 1/2" CAL. 6-8' HT.
57	PINUS NIGRA JAP. BLACK PINE	2 - 2 1/2" CAL. 6-8' HT.



V.O.M.  
SECTION 3 AREA I  
PARCEL D  
P-407

PROPERTY OF  
TWIN KNOLLS ASSOCIATES  
1027/569

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE **12-16-81**  
*[Signature]*

**CROZIER ASSOCIATES**  
LANDSCAPE ARCHITECTS  
401 EAST QUADRANGLE  
CROSSKEYS  
BALTIMORE, MD. 21210 382 5510

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i> COUNTY HEALTH OFFICER	5-11-81 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>[Signature]</i> PLANNING DIRECTOR, Acting	5-11-81 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	
<i>[Signature]</i> DIRECTOR	5-11-81 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i> DIRECTOR	5-4-81 DATE
CHIEF, BUREAU OF ENGINEERING	
<i>[Signature]</i>	5-3-81 DATE
DATE	NO REVISION
OWNER/DEVELOPER TWIN KNOLLS SOUTH LIMITED PARTNERSHIP SUITE 300, 5570 STERRETT PLACE COLUMBIA, MARYLAND 21044	
PROJECT VILLAGE OF OAKLAND MILLS SECTION 3, AREA I TWIN KNOLLS SOUTH-PARCEL E	
AREA TAX MAP NO 30 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE PLANTING PLAN	
<b>Riemer-Tracy &amp; Associates, Inc.</b> <small>Professional Land Surveyors &amp; Engineers 1000 North Washington Street Arlington, Virginia 22201 Tel. 703-261-1000</small> Land Planning, Design & Site Administration	
	DESIGNED BY: L.J.D.J.H. DRAWN BY: D.A.M.J.H. PROJECT NO: 1481 DATE: 10-29-81 SCALE: 1" = 30' DRAWING NO. 8 OF 2



