

| SHEET INDEX |   |
|-------------|---|
| NO          | DESCRIPTION   |
| 1           | TITLE SHEET   |
| 2           | PLAN OF HARVEST VIEW COURT AND STORM DRAIN PROFILES |
| 3           | ROAD PROFILES                                       |
| 4           | DETAILS   |
| 5           | DRAINAGE AREA MAP                                   |
| 6           | GRADING AND SEDIMENT CONTROL PLAN                   |
| 7           | STREET TREE PLAN                                    |

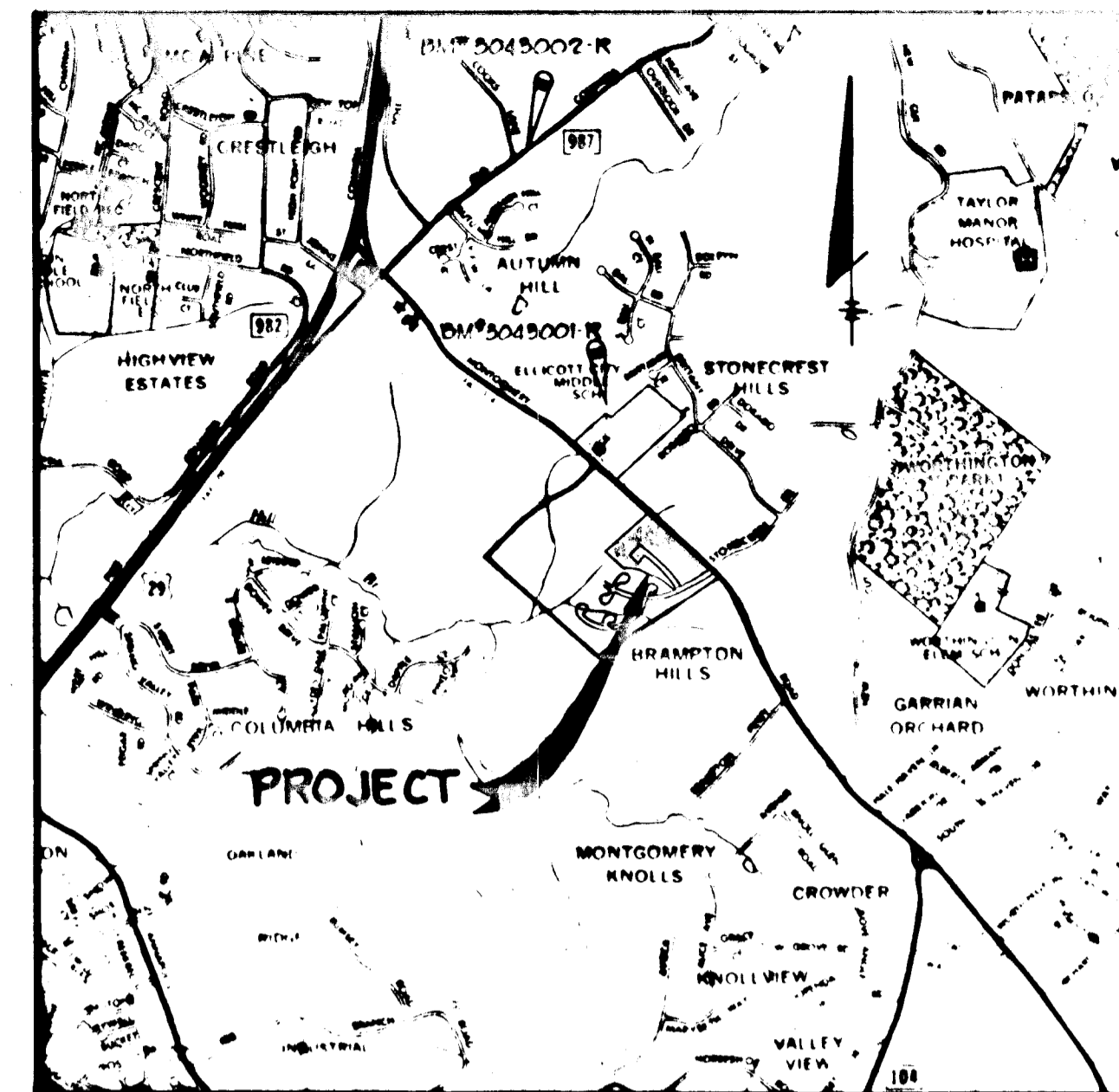
# ROADWAY & STORM DRAINS

## LONG GATE

### SECTION 1, AREA 4

### 2ND ELECTION DISTRICT

## HOWARD COUNTY, MARYLAND



VICINITY MAP

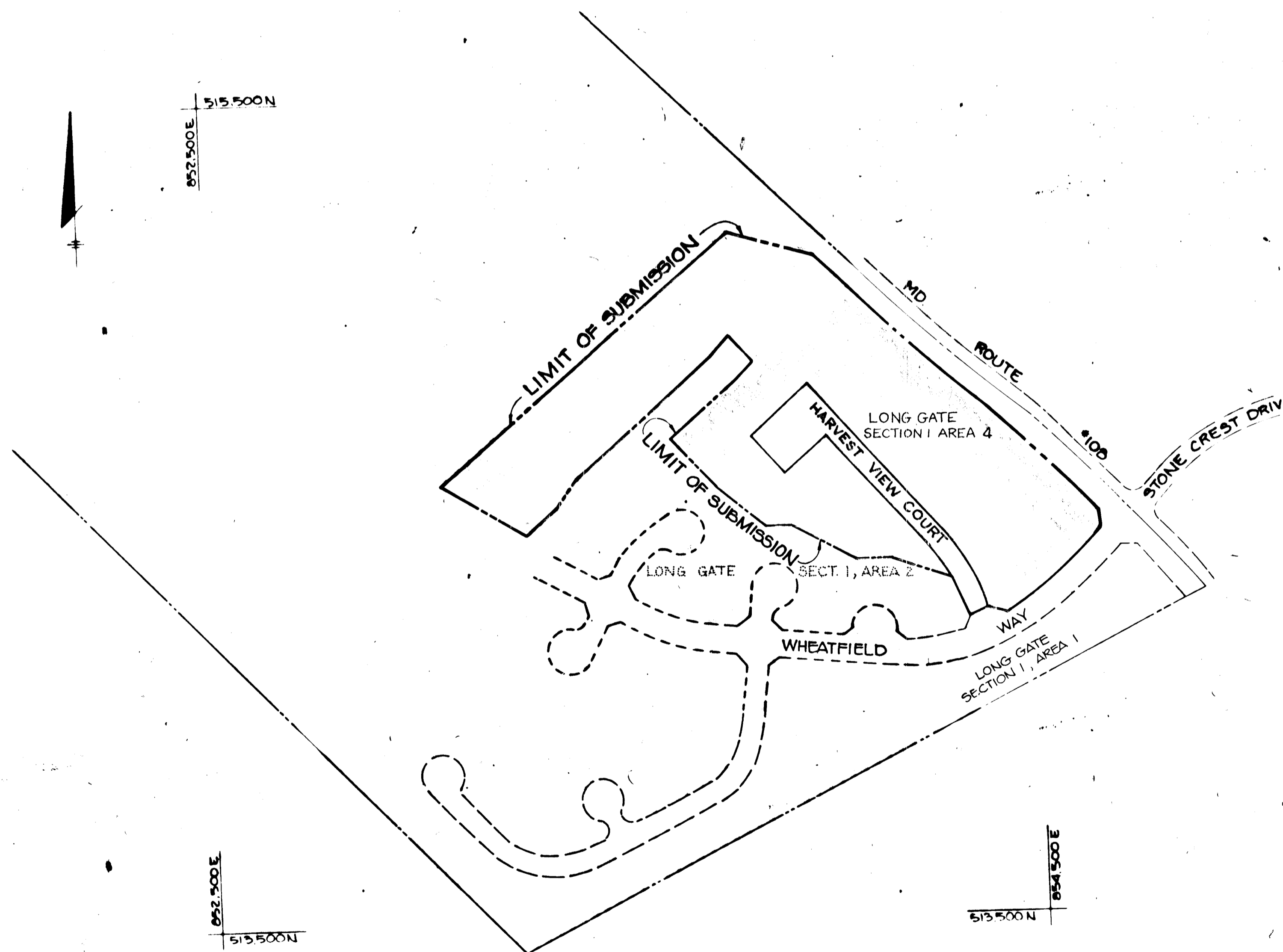
BM # 3045001 R ELEV 437.919  
CONCRETE MONUMENT AT 8 IN TRANSMISSION LINES BACK OF SCHOOL

BM # 3045002 R ELEV 377.581  
CONCRETE MONUMENT 0.5' BELOW SURFACE 14' NW 1/4 OLD COLUMBIA PIKE 175' NE 1/4 OF COOKS LANE

**GENERAL NOTES**

- 1 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
- 2 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.
- 3 THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- 4 CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 

|   |                  |
|---|------------------|
| BELL TELEPHONE SYSTEM                                 | 393-3649         |
| LONG DISTANCE CABLE DIVISION                          | 393-3553 OR 3554 |
| BALTIMORE GAS AND ELECTRIC                            | 539-R100 EXT 691 |
| HOWARD COUNTY BUREAU OF UTILITIES                     | 992-2366         |
| HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION | 992-2417/2418    |
- 5 ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.  
ALL STREET CURB RETURNS SHALL HAVE 20.0' RADII UNLESS OTHERWISE NOTED.
- 6 STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- 7 INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
- 8 PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- 9 DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.  
CUL-DE-SAC DESIGNED FOR 30 M.P.H., LOCAL STREETS DESIGNED FOR 30 M.P.H.
- 10 ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- 11 ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
- 12 ALL PIPE ELEVATIONS SHOWN ARE INVERT  $\frac{1}{2}$  ELEVATIONS.
- 13 PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- 14 SUBJECT PROPERTY ZONED R SC AS PER COMPREHENSIVE ZONING PLAN DATED AUGUST 2, 1985.
- 15 TOPO TAKEN FROM FIELD RUN SURVEY BY PURDUM AND JESCHKE, INC., DATED JANUARY, 1984.
- 16 STORM WATER MANAGEMENT IS PROVIDED UNDER F-64-195.



**PLAN**  
SCALE 1"=200'

|  |  |
|--|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  |  |
| <i>John W. ...</i>   | 11-18-86   |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  |  |
| DATE   |  |
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS   |  |
| <i>...</i>   | 11-26-86   |
| CHIEF, BUREAU OF ENGINEERING   |  |
| DATE   |  |
| NO   | REVISION   |
|  |  |
| <b>TRACY SCHULTE &amp; ASSOCIATES INC.</b><br>planning • architecture • engineering<br><small>4450 Baltimore National Pike • Suite 14 • Ellicott City, Maryland 21043 • (301) 463-6105</small> |  |
|  |  |
| OWNER:   | PROJECT: <b>LONG GATE</b><br>SECTION 1 AREA 4<br>LOTS 107 THRU 130   |
| SECURITY DEVELOPMENT CORP.<br>PO BOX 417<br>ELLICOTT CITY, MD 21043  | LOCATION:<br>2ND ELECTION DISTRICT HOWARD COUNTY MD<br>TAX MAP NOS 30 & 31 ZONING MAP NOS 30 & 31<br>PARCEL 18 |
| DEVELOPER:   | TITLE: <b>TITLE SHEET</b>  |
| SECURITY DEVELOPMENT CORP.<br>PO BOX 417<br>ELLICOTT CITY, MD 21043  | DATE NOV 12, 1986 PROJECT NO: 8546 RSD   |
| DES: JKT   | DN: KAM  |
| SCALE: AS SHOWN  | DRAWING: 1 OF 7  |

© CURVE DATA, COURT 'C'  
FROM STA. 0+00 TO STA. 0+46.20  
Δ = 84° 07' 54"  
R = 32.00'  
L = 46.20'  
T = 28.88'  
D = 17° 02' 55"  
Chd = N 01° 10' 51" E, 42.88'

© CURVE DATA, COURT 'A'  
FROM STA. 1+45.55 TO STA. 2+22.45  
Δ = 22° 02' 21"  
R = 200.00'  
L = 76.95'  
T = 38.95'  
D = 28° 28' 52"  
Ord = N 54° 15' 55" E, 76.46'

© CURVE DATA, HARVEST VIEW COURT  
FROM STA. 1+49.71 TO STA. 2+81.07  
Δ = 22° 54' 41"  
R = 340.00'  
L = 195.56'  
T = 96.50'  
D = 16° 51' 00"  
Chd = N 20° 26' 05" W, 195.00'

| STRUCTURE SCHEDULE |                      |  |             |         |          |                   |
|--------------------|----------------------|--|-------------|---------|----------|-------------------|
| NO.                | TYPE                 | LOCATION                                 | INV IN      | INV OUT | TOP ELEV | DESCRIPTION       |
| I-1                | A-5                  | 12' LT STA 0+18.33 COURT 'C'             | 15'D 396.67 | 395.18  | 402.20   | HO CO STD SD 4.01 |
| I-2                | A-5                  | 12' RT STA 0+18.33 COURT 'C'             | 396.37      | 396.12  | 402.20   | HO CO STD SD 4.01 |
| I-3                | A-5 W/DEFL           | 28' LT LP STA 6+77.26 HARVEST VIEW COURT | ---         | 397.73  | 403.27   | HO CO STD SD 4.01 |
| I-4                | A-5 W/DEFL           | 14' RT STA 5+80 HARVEST VIEW COURT       | 15'D 403.73 | 403.23  | 409.95   | HO CO STD SD 4.02 |
| I-5                | A-5 W/DEFL           | 14' LT STA 5+00 HARVEST VIEW COURT       | ---         | 404.37  | 409.95   | HO CO STD SD 4.01 |
| I-6                | A-10 W/DEFL          | 14' RT STA 2+81.67 HARVEST VIEW COURT    | ---         | 415.07  | 420.33   | HO CO STD SD 4.02 |
| E-1                | 24" CONC END SECTION | SEE PLAN                                 | ---         | 392.75  | ---      | HO CO STD SD 5.52 |

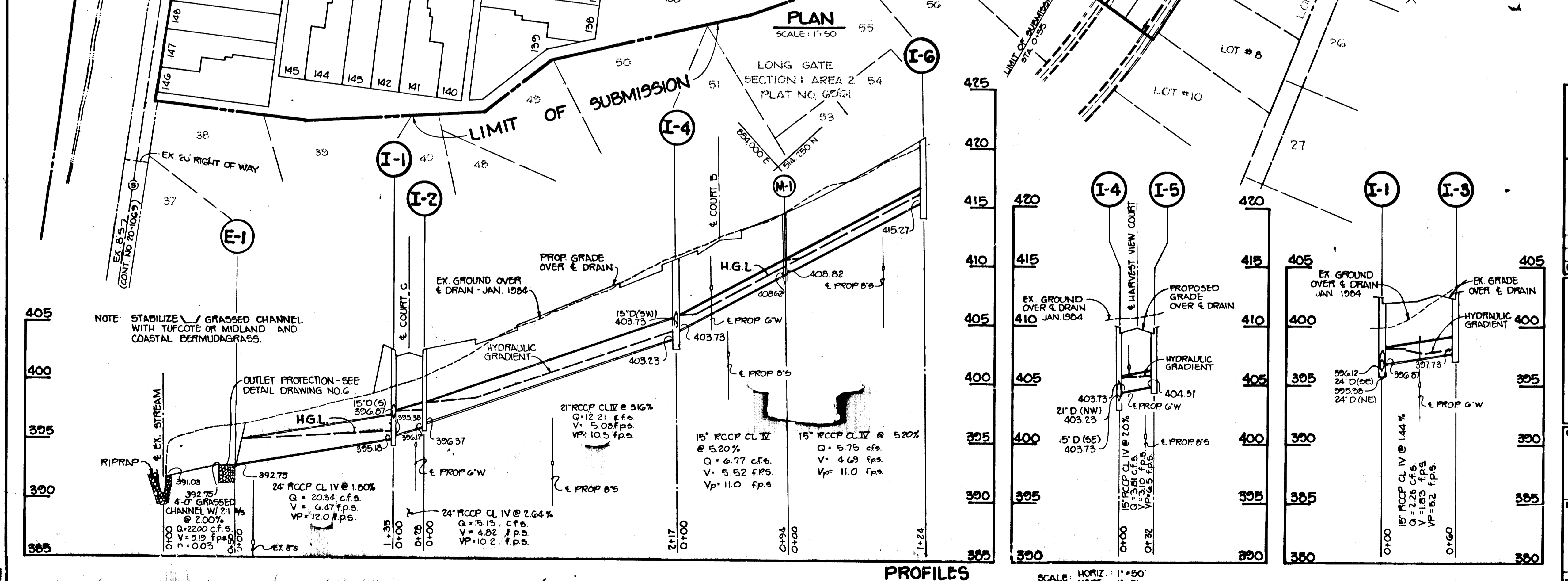
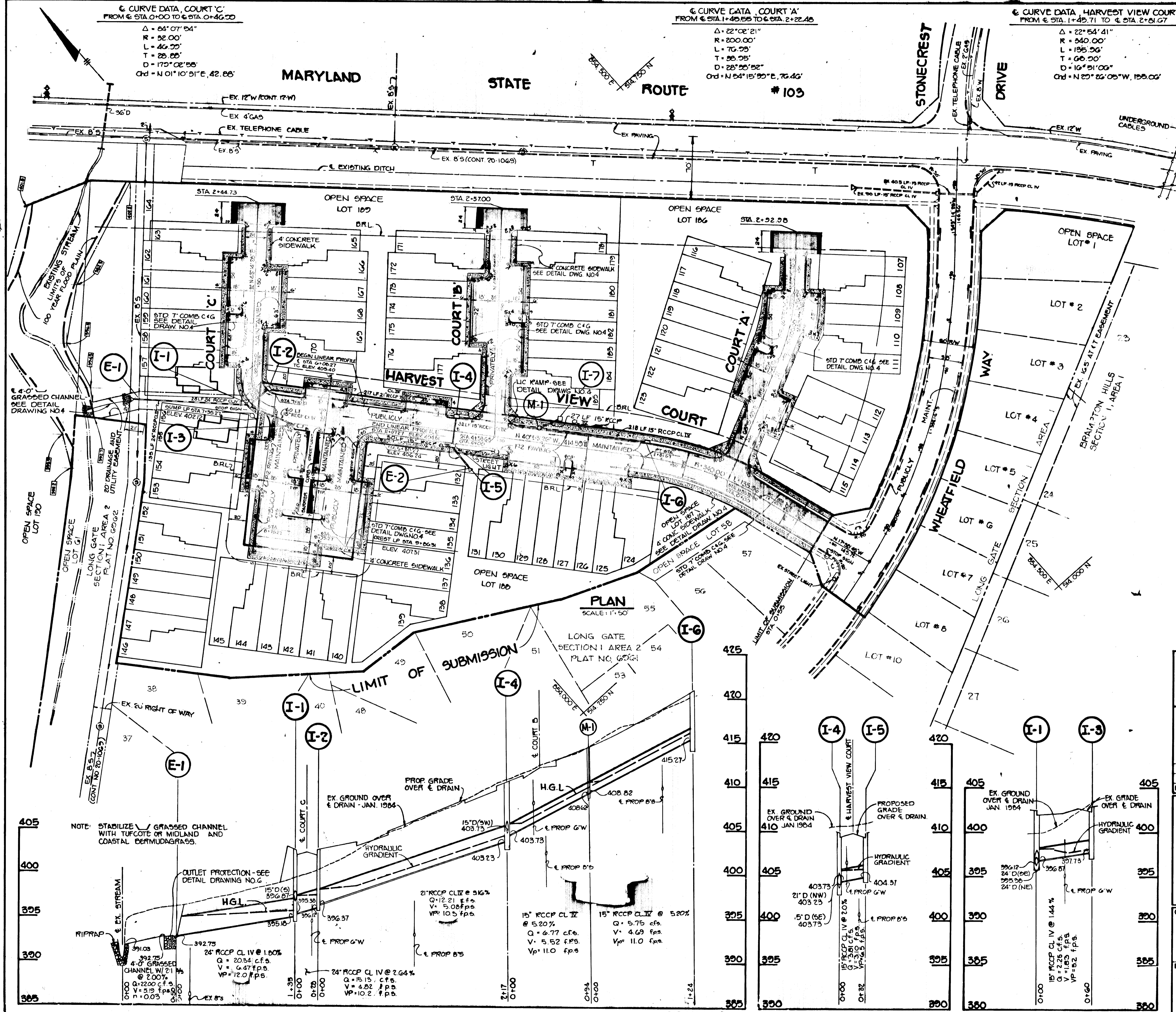
NOTE: ALL STORM DRAIN BEDDING SHALL BE CLASS 'C'

|     |                      |                  |     |        |     |                   |
|-----|----------------------|------------------|-----|--------|-----|-------------------|
| I-7 | O-INLET              | SPOT ELEV 419.35 | --- | 419.35 | --- | HO CO STD SD 4.01 |
| E-2 | 15" CONC END SECTION | SPOT ELEV 406.70 | --- | 406.70 | --- | HO CO STD SD 5.52 |
| M-1 | 40" DIA MANHOLE      | SPOT ELEV 408.82 | --- | 408.82 | --- | HO CO STD SD 5.52 |

DEPRESSED CURB SCHEDULE FOR DRIVEWAY ENTRANCES

| STREET             | LOCATION                              |
|--------------------|---------------------------------------|
| HARVEST VIEW COURT | FROM STA 2 + 70 TO STA 2+90 14' LEFT  |
| HARVEST VIEW COURT | FROM STA 4 + 40 TO STA 4+60 14' LEFT  |
| HARVEST VIEW COURT | FROM STA 7 + 44 TO STA 7+58 14' LEFT  |
| HARVEST VIEW COURT | FROM STA 8 + 24 TO STA 8+35           |
| HARVEST VIEW COURT | FROM STA 8 + 65 TO STA 8+70           |
| HARVEST VIEW COURT | FROM STA 9 + 60 TO STA 9+74           |
| HARVEST VIEW COURT | FROM STA 10 + 56 TO STA 10+80         |
| HARVEST VIEW COURT | FROM STA 2 + 23 TO STA 2+37 14' RIGHT |
| COURT A            | FROM STA 0 + 44 TO STA 0+58 12' RIGHT |
| COURT A            | FROM STA 2 + 88 TO STA 2+92 12' LEFT  |
| COURT A            | FROM STA 2 + 46 TO STA 2+80 12' RIGHT |
| COURT A            | FROM STA 1 + 24 TO STA 1+39 12' RIGHT |
| COURT B            | FROM STA 0 + 44 TO STA 0+58 12' RIGHT |
| COURT B            | FROM STA 0 + 58 TO STA 0+72 12' LEFT  |
| COURT B            | FROM STA 2 + 07 TO STA 2+81 12' LEFT  |
| COURT C            | FROM STA 2 + 12 TO STA 2+26 12' RIGHT |
| COURT C            | FROM STA 0 + 23 TO STA 0+37 12' LEFT  |
| COURT C            | FROM STA 0 + 60 TO STA 0+74 12' RIGHT |
| COURT C            | FROM STA 1 + 95 TO STA 2+07 12' LEFT  |
| COURT C            | FROM STA 1 + 89 TO STA 2+09 12' RIGHT |

NOTE: FOR SPOT ELEVATIONS SEE GRADING AND SEDIMENT CONTROL PLAN.



7/29/88 CHANGE INLET NO. I-4 FROM A-10 TO A-5.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Mueschler* 11-18-86  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William R. Ray* 11-26-86  
 CHIEF, BUREAU OF ENGINEERING DATE

2 5/22/87 ADD STORM DRAINS FROM M-2 TO I-7 & I-5 TO E-2  
 1 4/3/87 REVISED GRADING AND PARKING IN COURTS B & C AND HARVEST VIEW CT.

| NO. | DATE    | REVISION   |
|-----|---------|--|
| 2   | 5/22/87 | ADD STORM DRAINS FROM M-2 TO I-7 & I-5 TO E-2                    |
| 1   | 4/3/87  | REVISED GRADING AND PARKING IN COURTS B & C AND HARVEST VIEW CT. |

TRACY, SCHULTE & ASSOCIATES INC.  
 planning • architecture • engineering  
 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: SECURITY DEVELOPMENT CORP. P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043

PROJECT: LONG GATE SECTION I AREA 4 LOTS 107 THRU 100

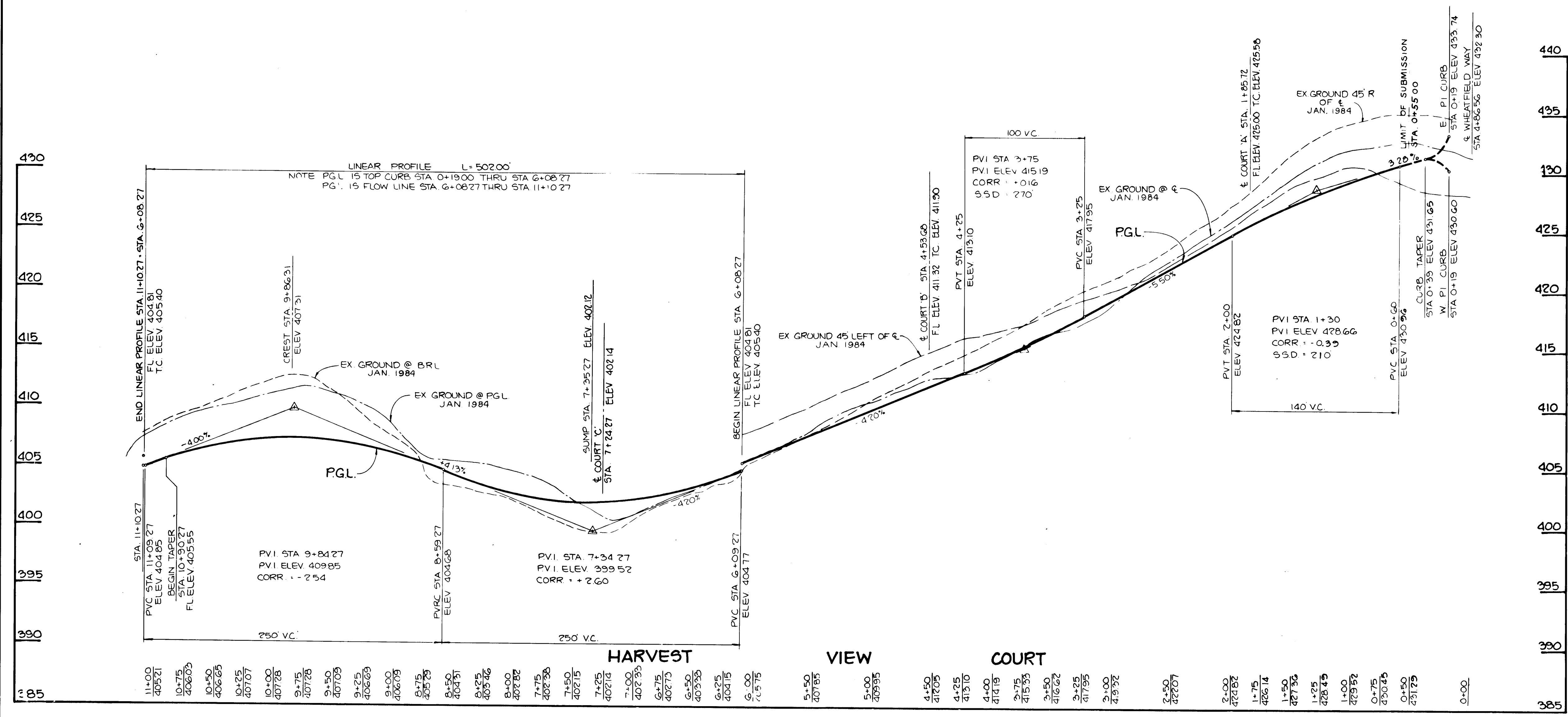
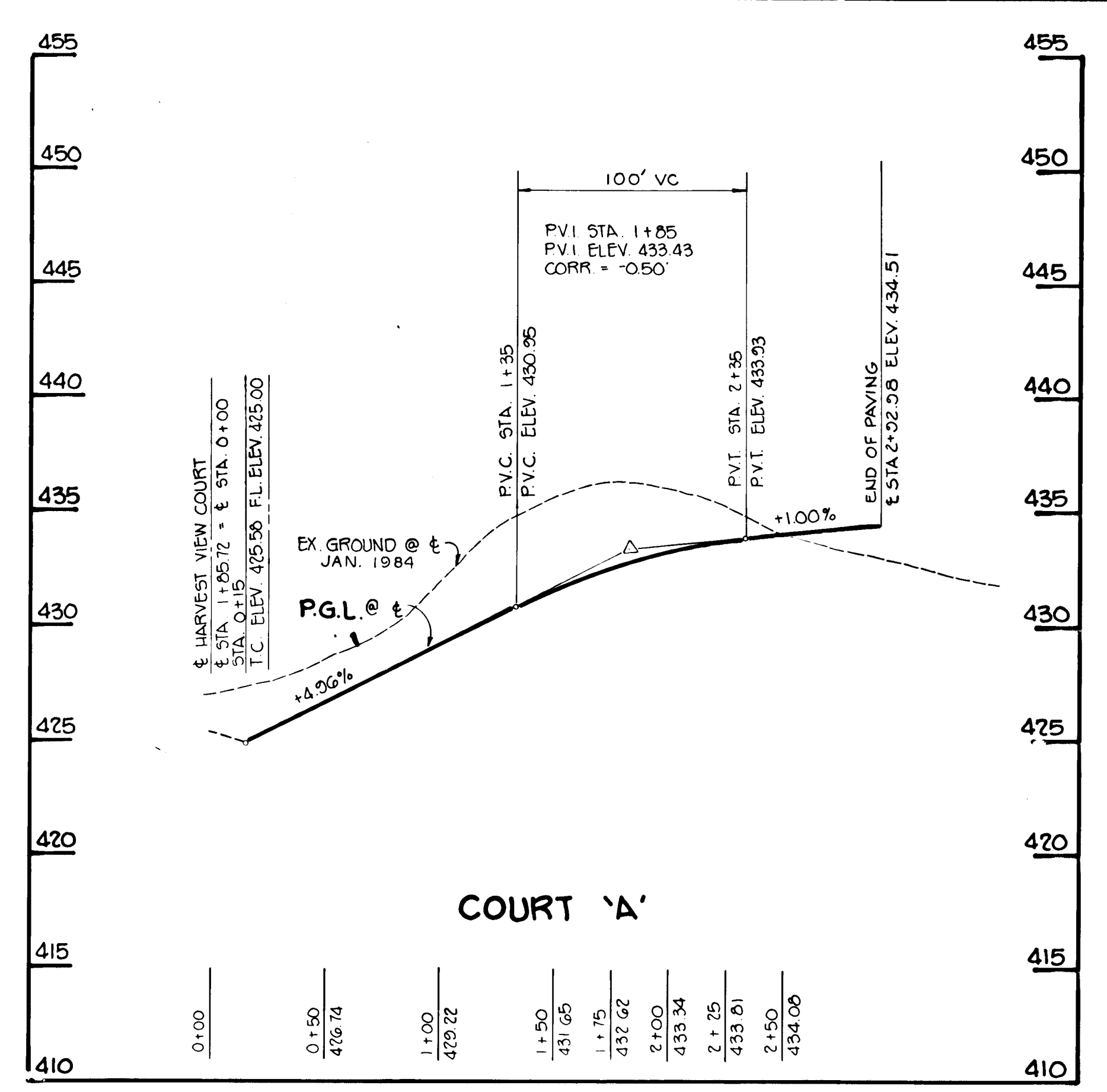
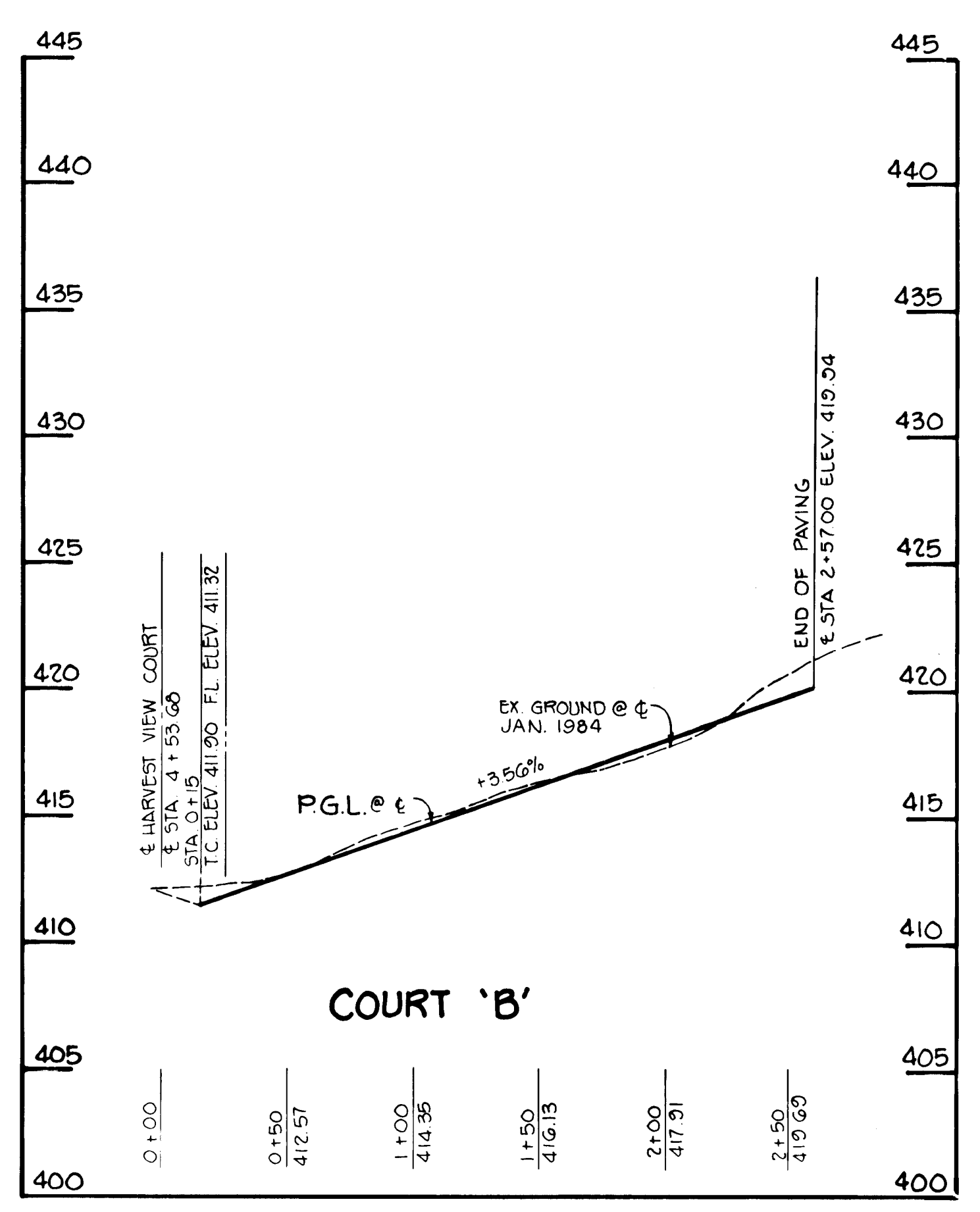
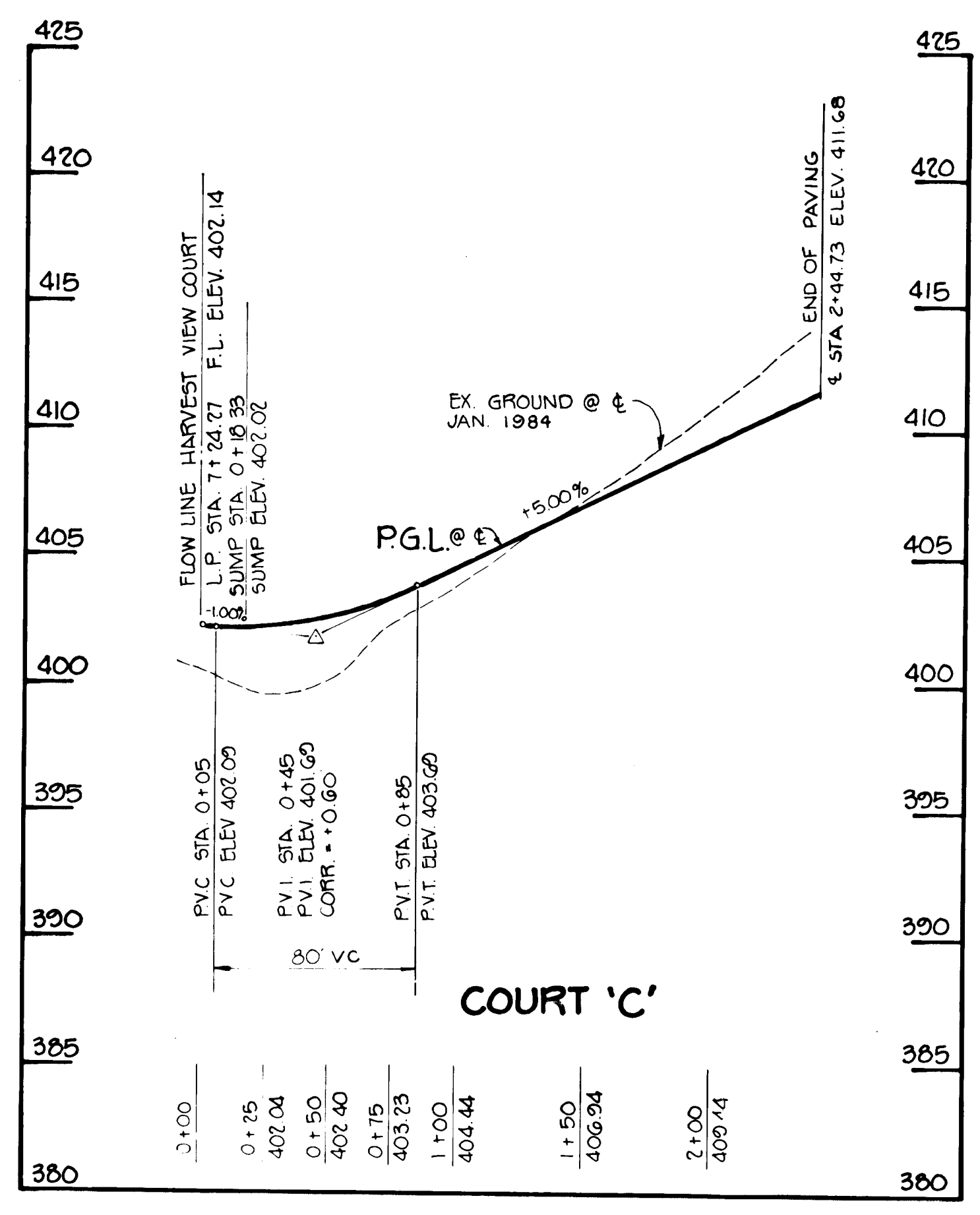
LOCATION: TAX MAP NOS. 30 & 31 PARCEL 10 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DEVELOPER: SECURITY DEVELOPMENT CORP. P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043

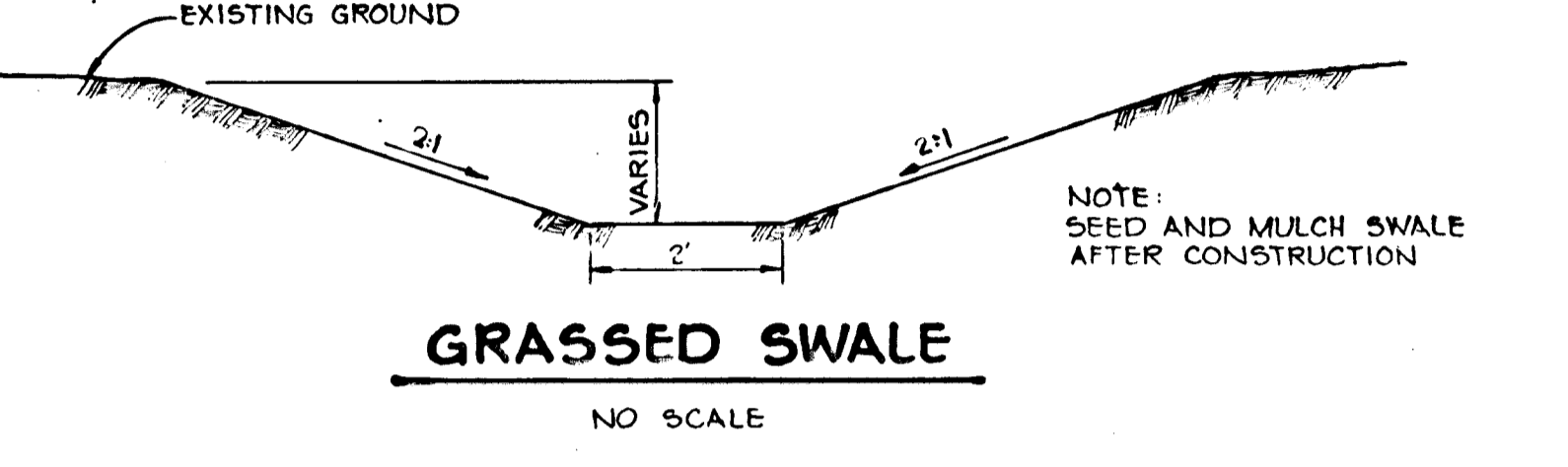
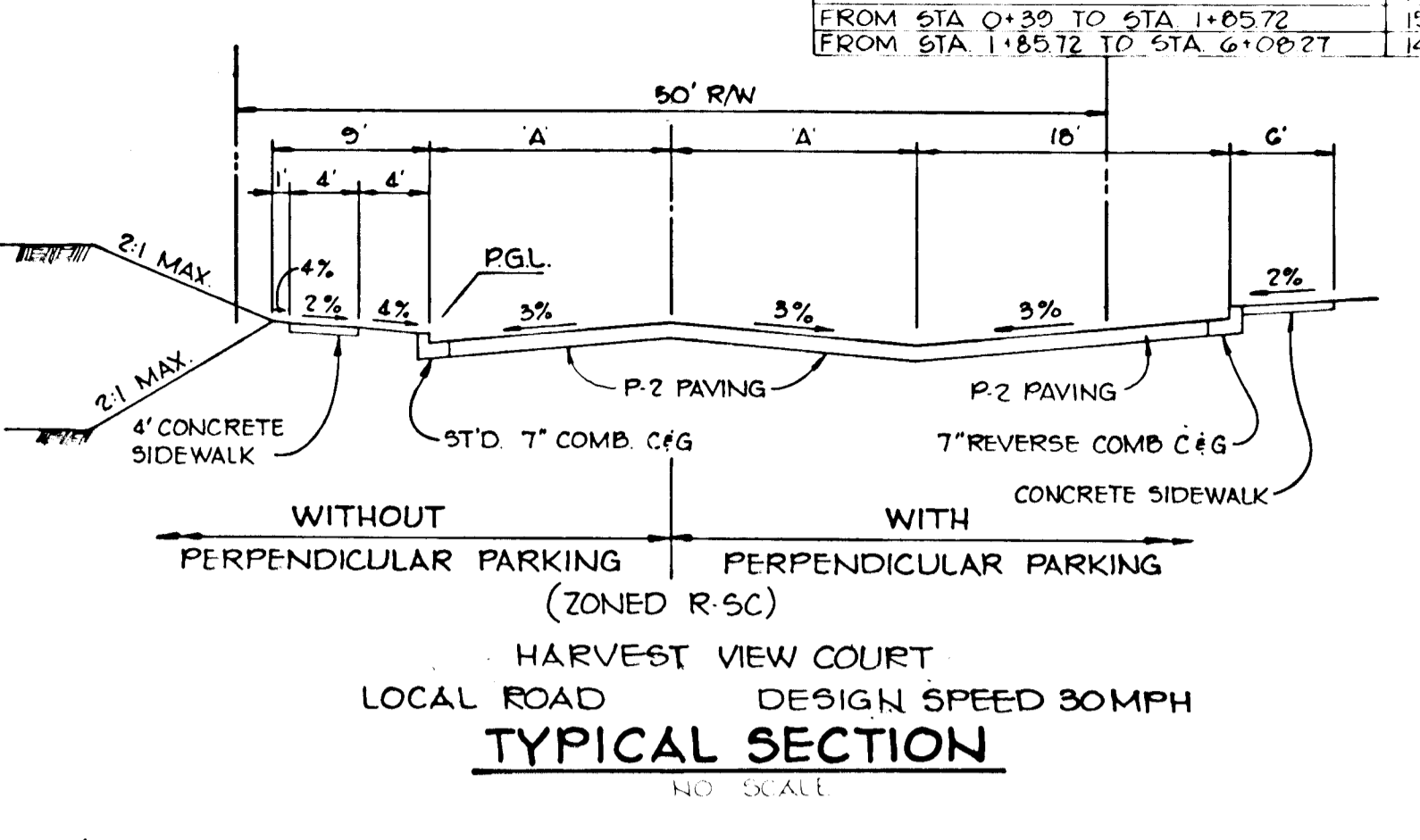
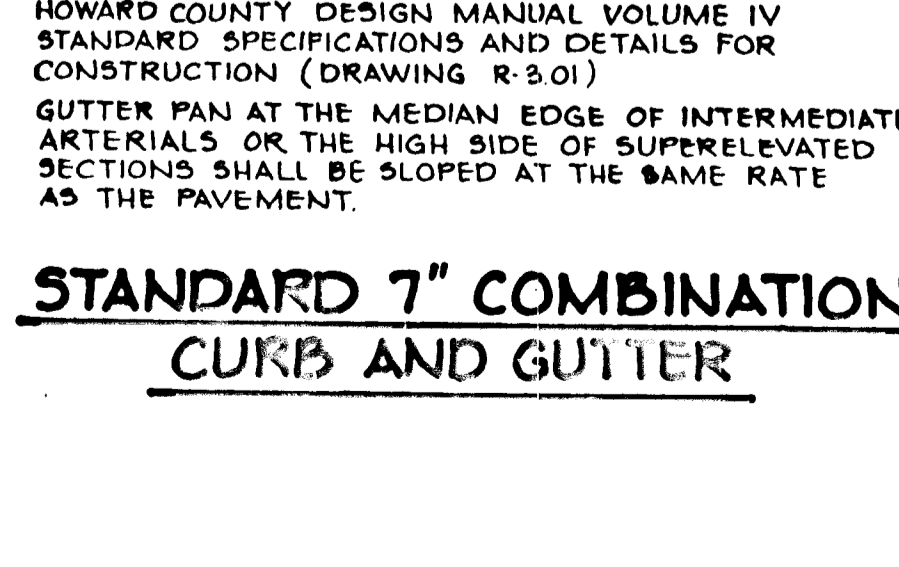
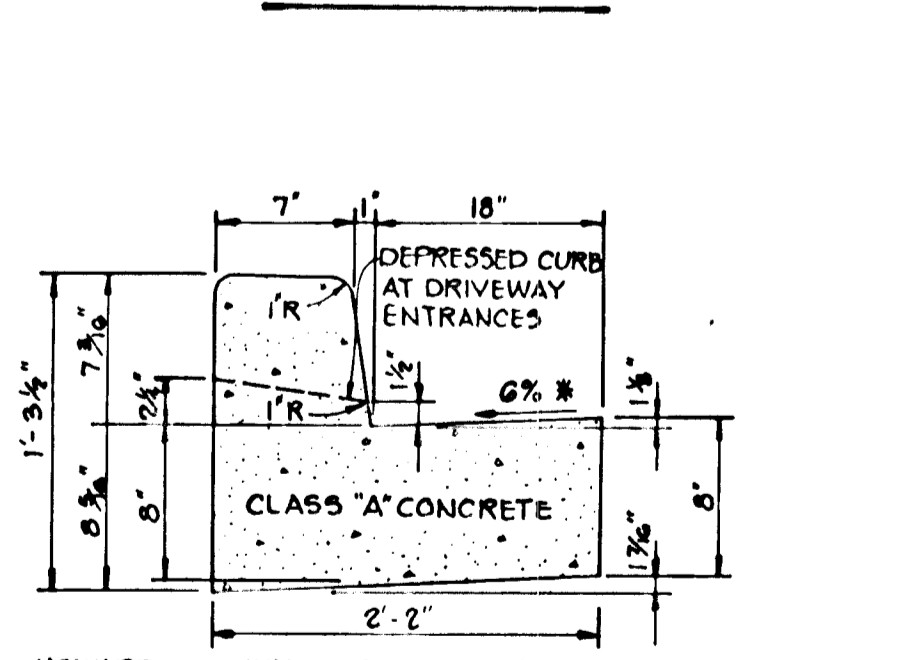
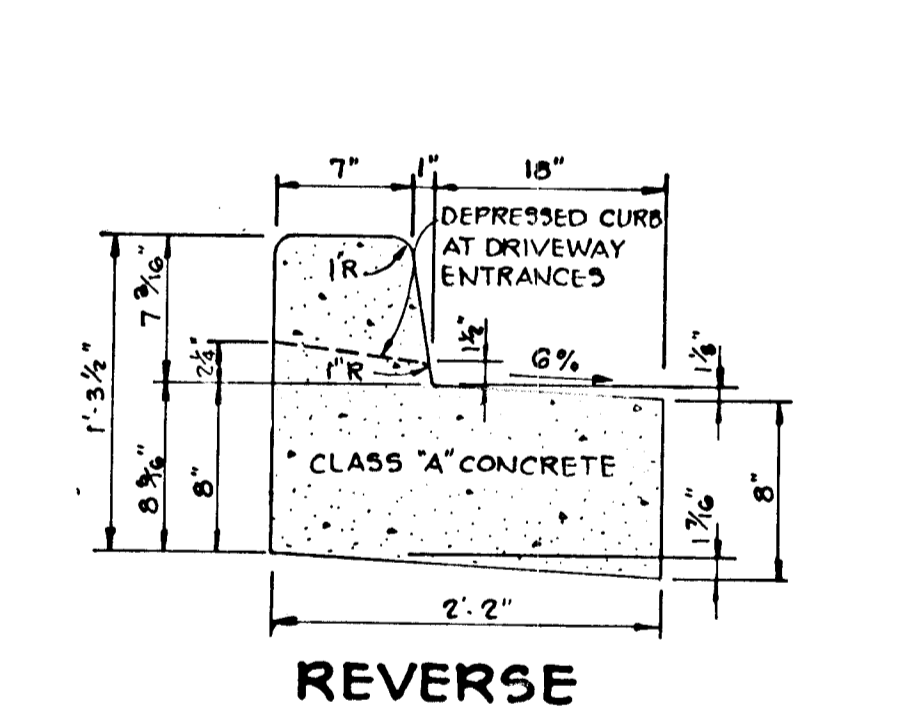
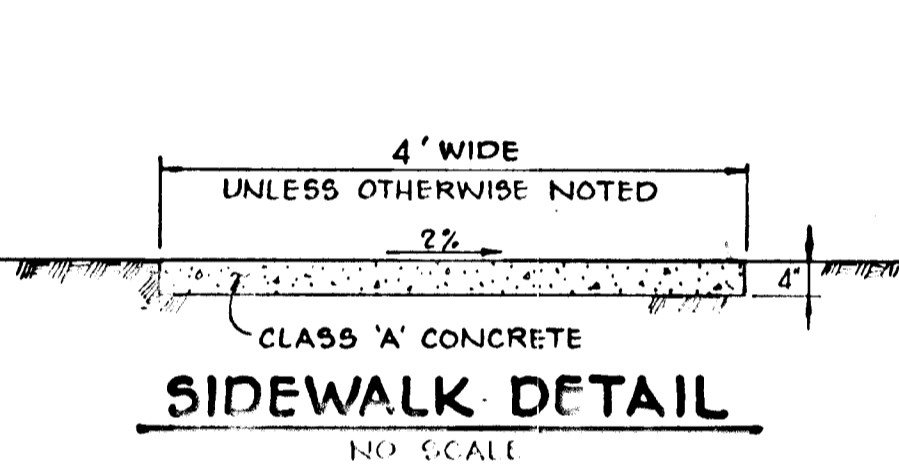
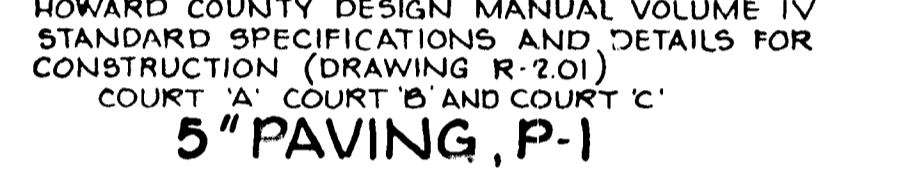
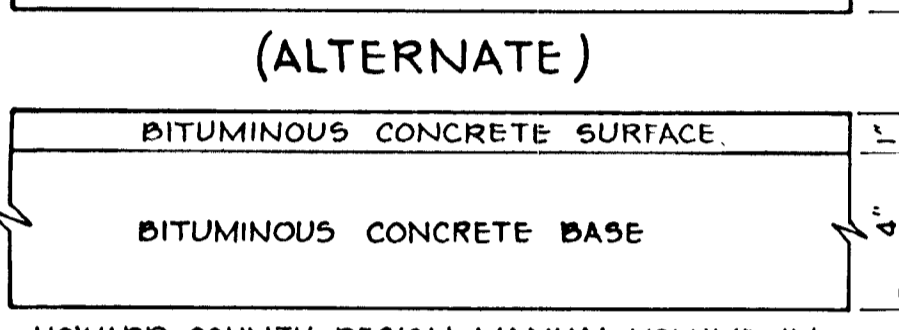
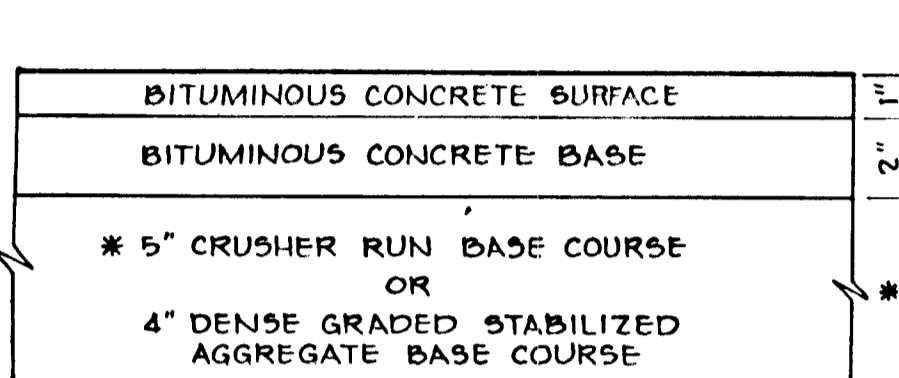
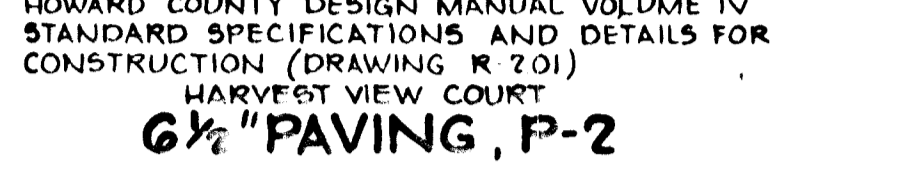
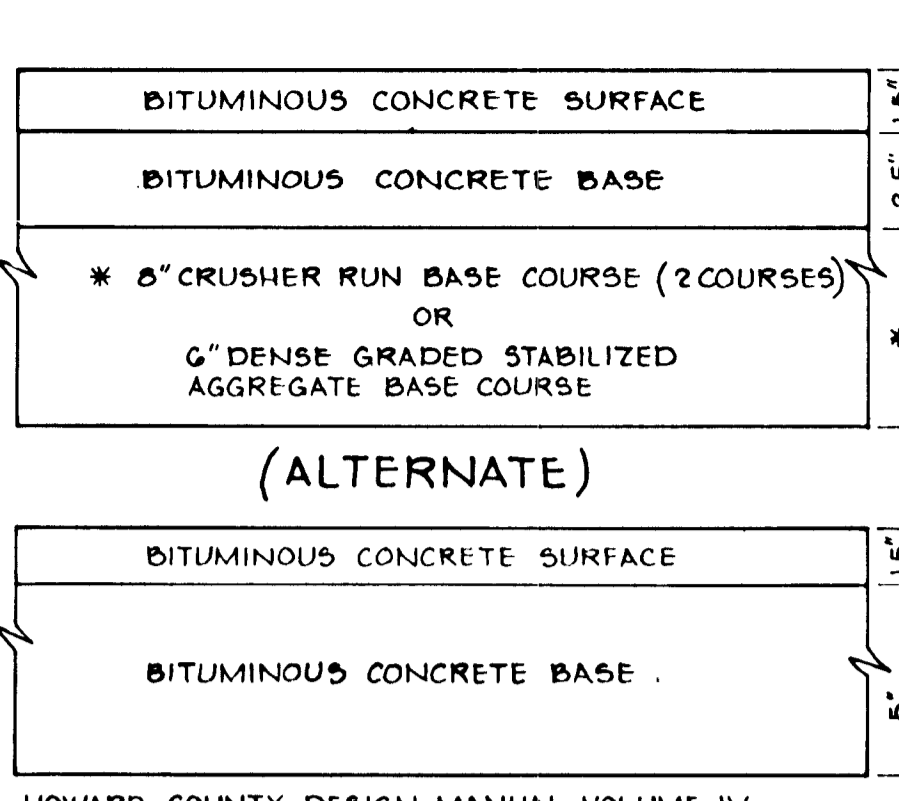
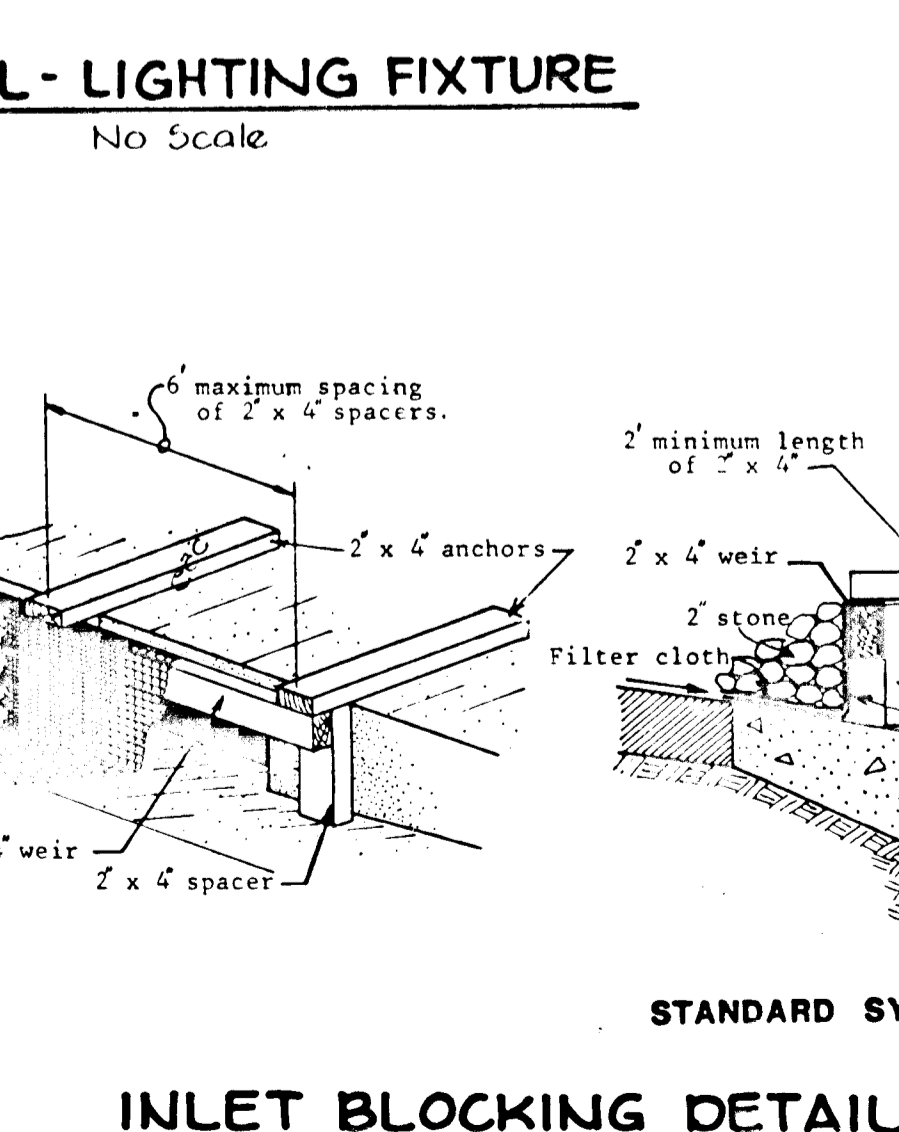
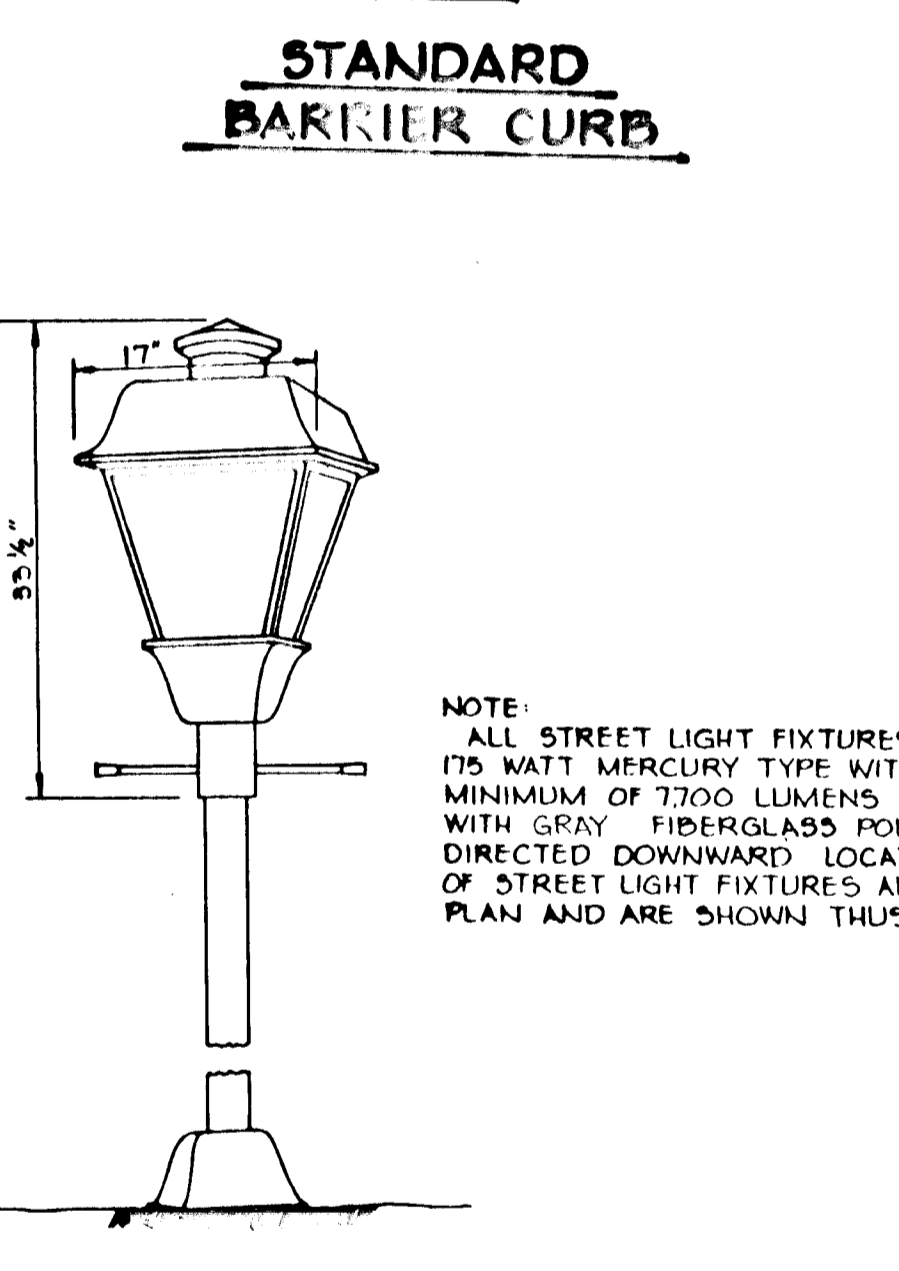
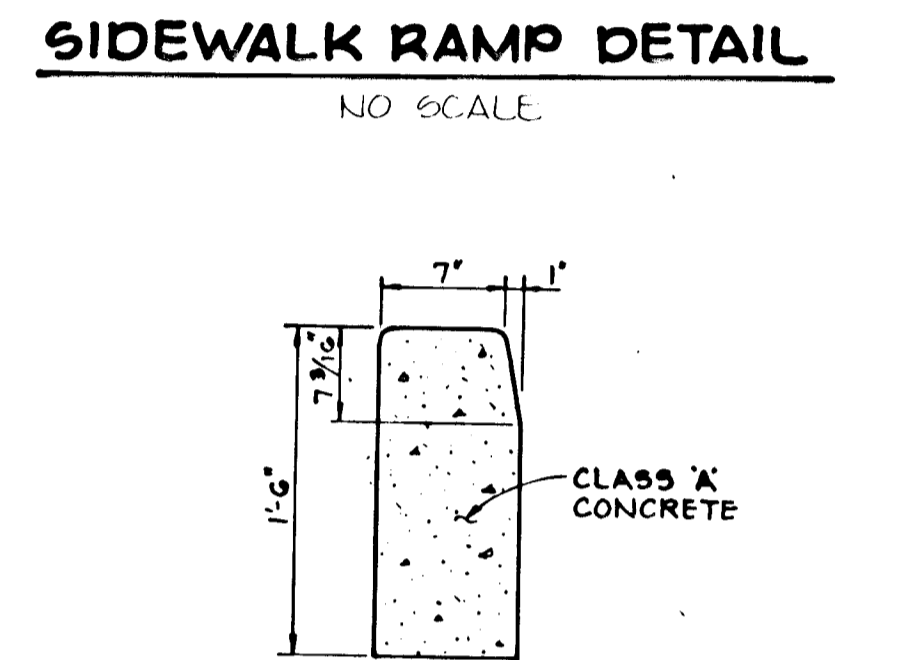
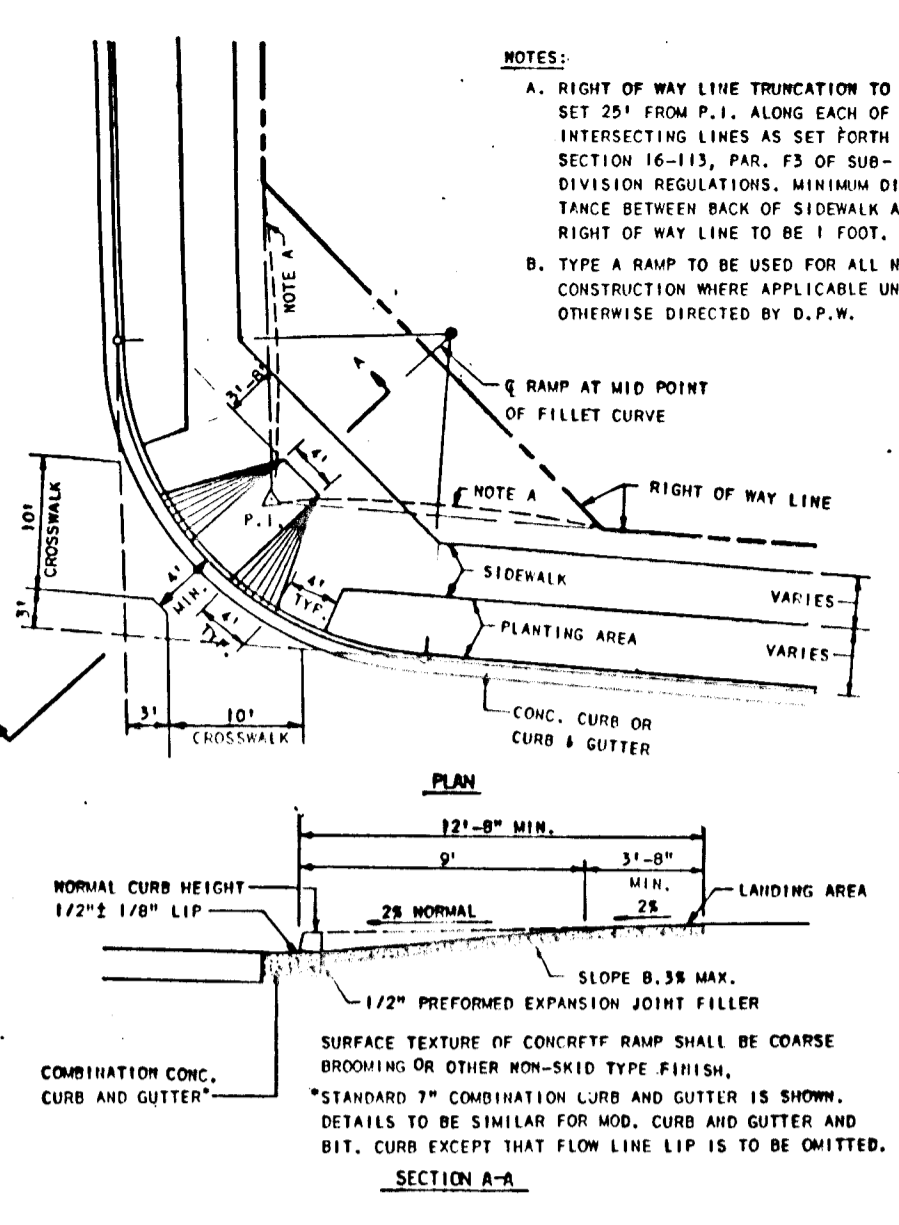
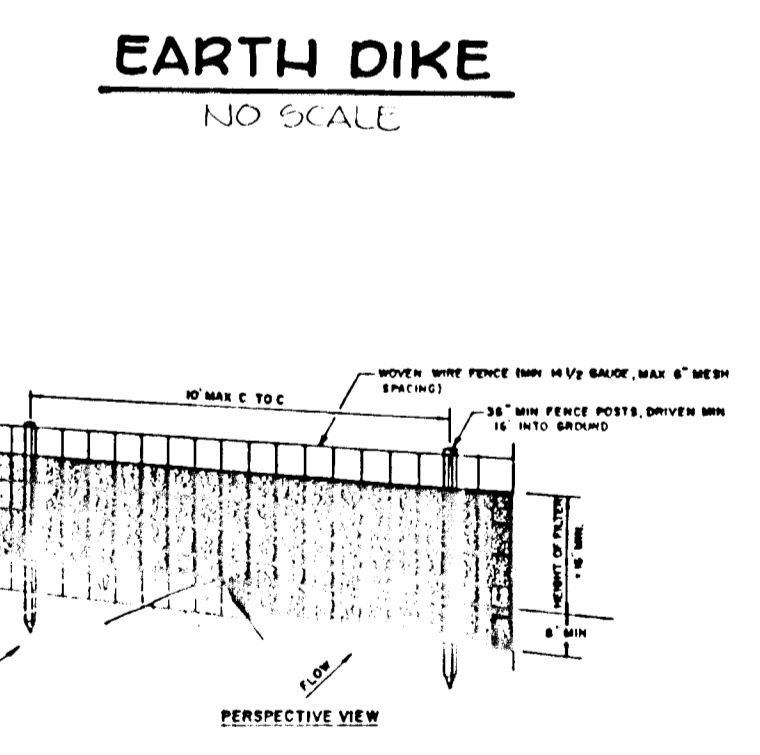
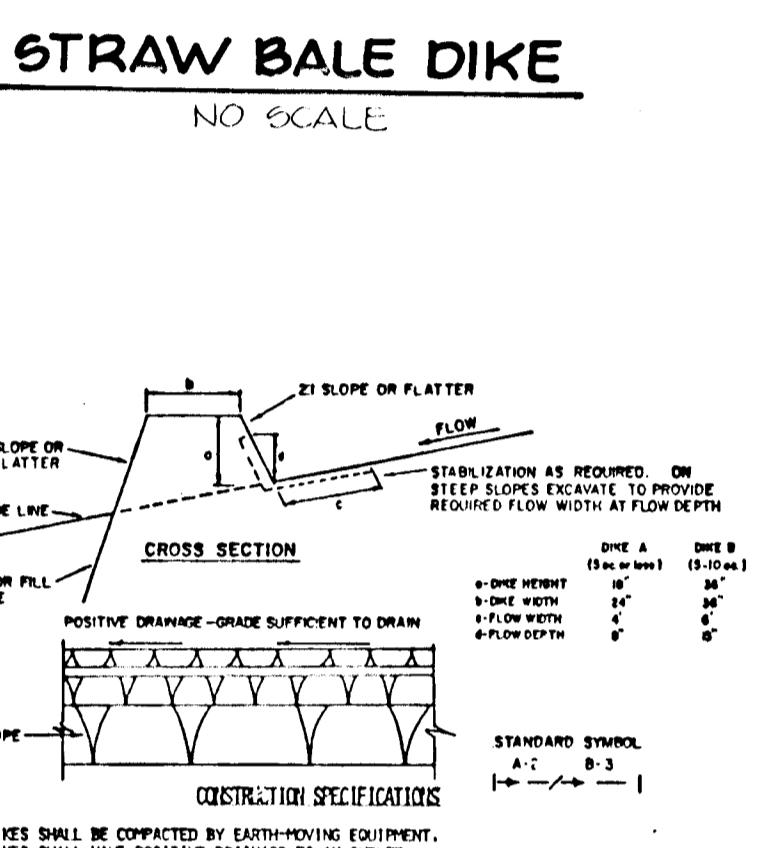
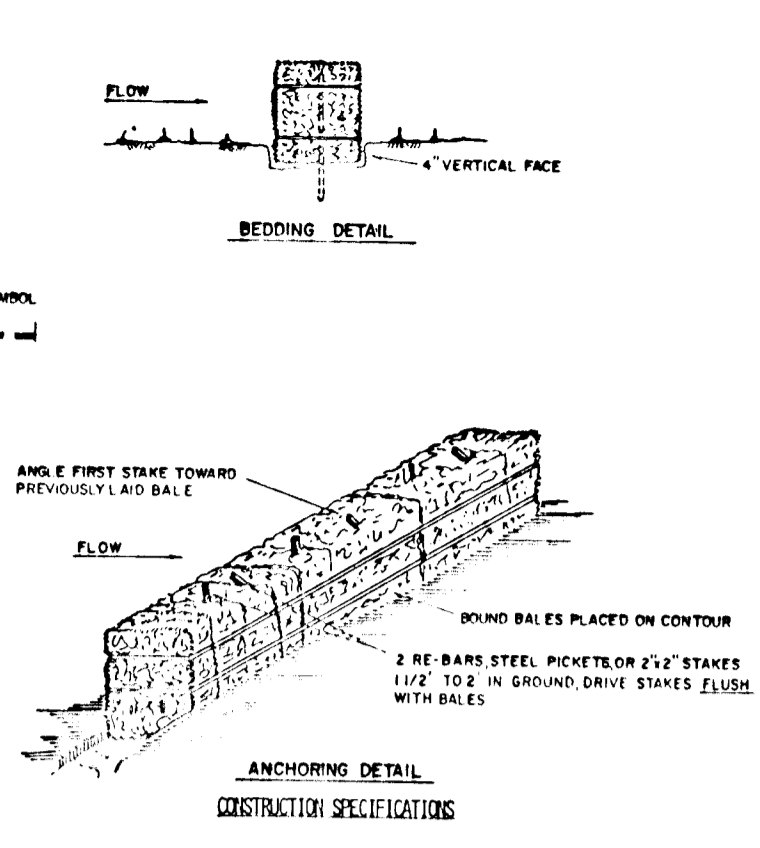
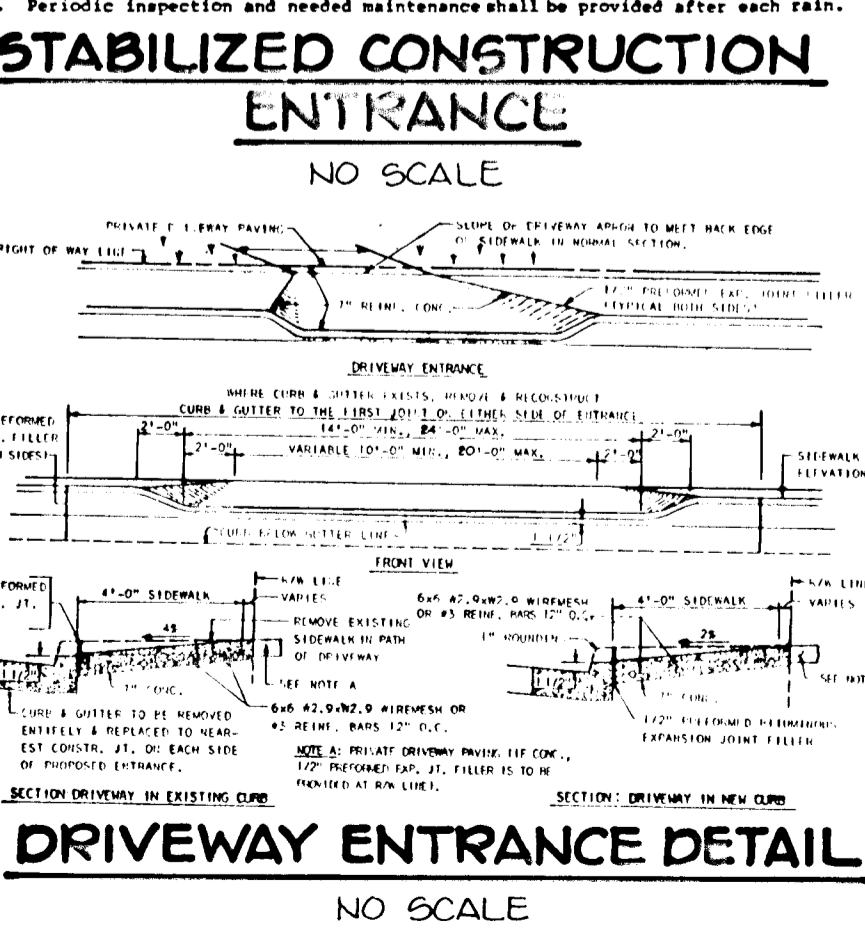
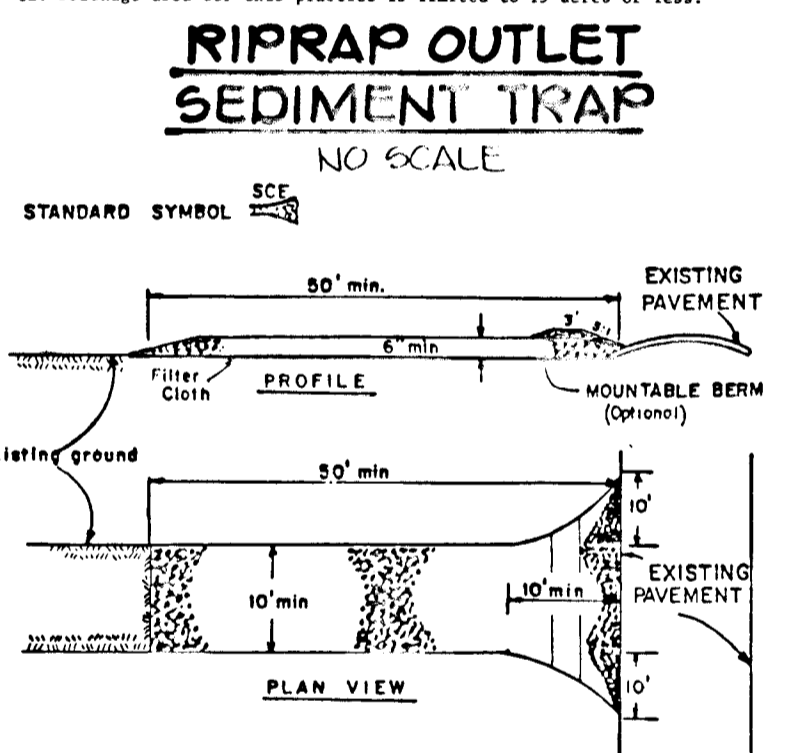
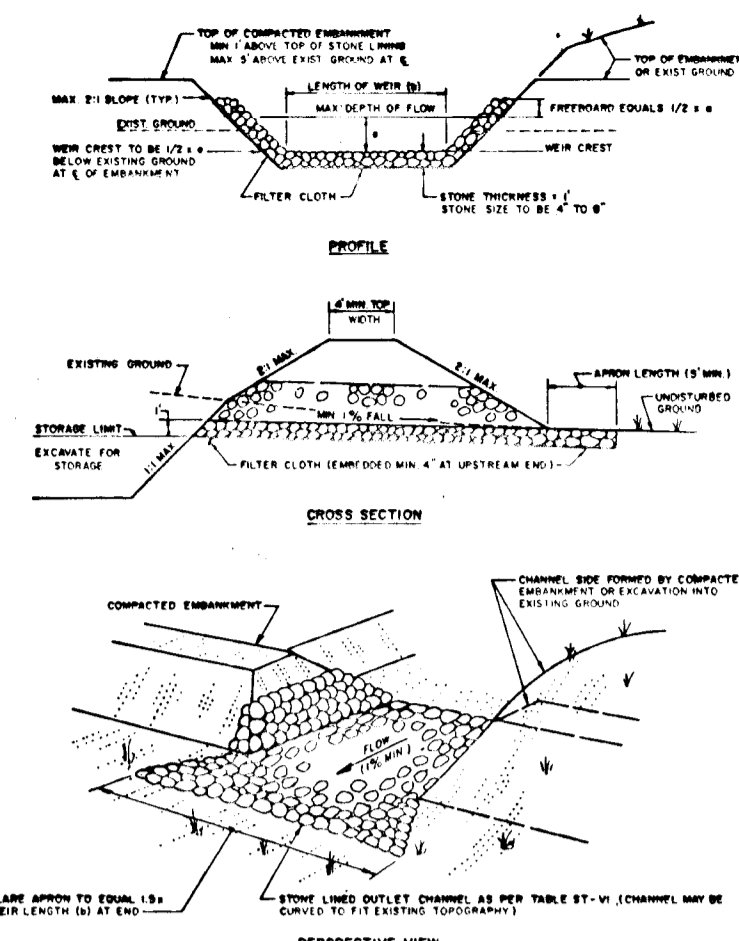
TITLE: HARVEST VIEW COURT PLAN & STORM DRAIN PROFILES

DATE: NOV. 12, 1986 PROJECT NO: 6546 15D

DES: JKT DRN: KAM SCALE: AS SHOWN DRAWING 2 OF 7



|   |      |  |  |
|---|------|--|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  |      | DATE   |  |
| <i>[Signature]</i>  |      | 11-18-86   |  |
| CHIEF, BUREAU OF ENGINEERING  |      | DATE   |  |
| APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING   |      | DATE   |  |
| <i>[Signature]</i>  |      | 11-18-86   |  |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION   |      | DATE   |  |
| NO  | DATE | REVISION   |  |
| TRACY, SCHULTE & ASSOCIATES INC.<br>planning • architecture • engineering<br>8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465 6105 |      |  |  |
| OWNER   |      | PROJECT  |  |
| SECURITY DEVELOPMENT CORP<br>P.O. BOX 417<br>ELICOTT CITY, MD 21043   |      | LONG GATE<br>SECTION 1 AREA 4<br>LOTS 107 THRU 190                                   |  |
| DEVELOPER   |      | LOCATION   |  |
| SECURITY DEVELOPMENT CORP<br>P.O. BOX 417<br>ELICOTT CITY, MD 21043   |      | TAX MAP NOS 30 & 31<br>PARCEL 1B<br>2ND ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND |  |
| TITLE   |      | DATE   |  |
| ROAD PROFILES   |      | NOV. 12, 1986  |  |
| DES. JKT  |      | PROJECT NO   |  |
| DRN. KAM  |      | 0546   |  |
| SCALE   |      | DRAWING  |  |
| V: 1"=5'<br>H: 1"=50'   |      | 3 OF 7   |  |



BY 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."

*James R. M. O'Leary, Jr.* 11-12-86  
DEVELOPER: JAMES R. MOXLEY, JR. DATE  
SECURITY DEVELOPMENT CORPORATION - PRESIDENT

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, P.E.* 11-17-86  
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Hahn* 11-17-86  
U.S. SOIL CONSERVATION SERVICE DATE

*Stephen L. Fisher* 11-17-86  
HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*John W. M... ..* 11-18-86  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*W... ..* 11-26-86  
CHIEF, BUREAU OF ENGINEERING DATE

NO DATE REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering  
8490 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: SECURITY DEVELOPMENT CORP  
P.O. BOX 417  
ELLCOTT CITY MD 21043

DEVELOPER: SECURITY DEVELOPMENT CORP  
P.O. BOX 417  
ELLCOTT CITY MD 21043

DES: DAM DRN CDT

PROJECT: LONG GATE  
SECTION I, AREA 4  
LOTS 107 THRU 120

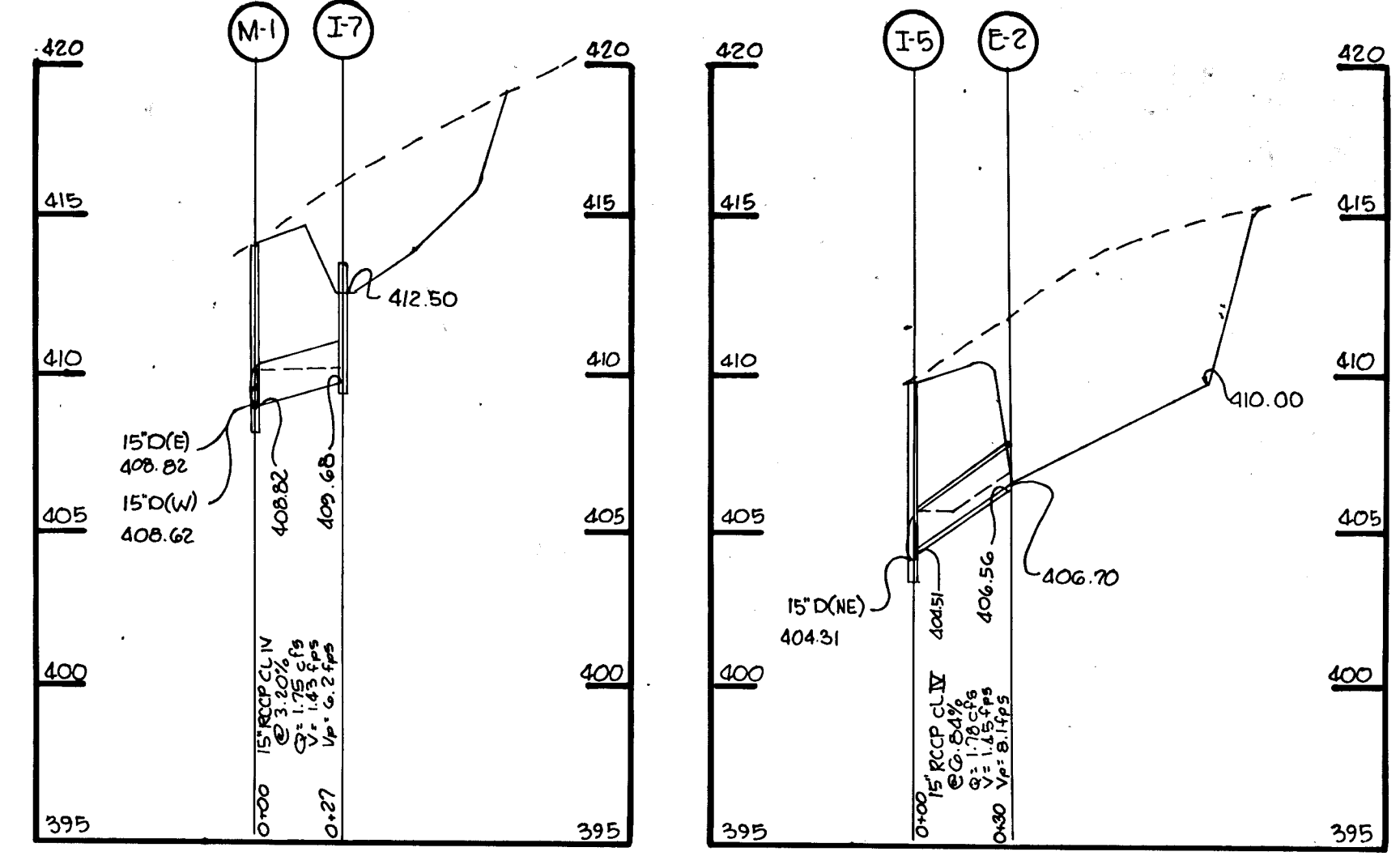
LOCATION: 2<sup>ND</sup> ELECTION DISTRICT HOWARD COUNTY MD  
TAX MAP NOS 30 (3) ZONING MAP NOS 30(3) PARCEL 1B

TITLE: DETAILS

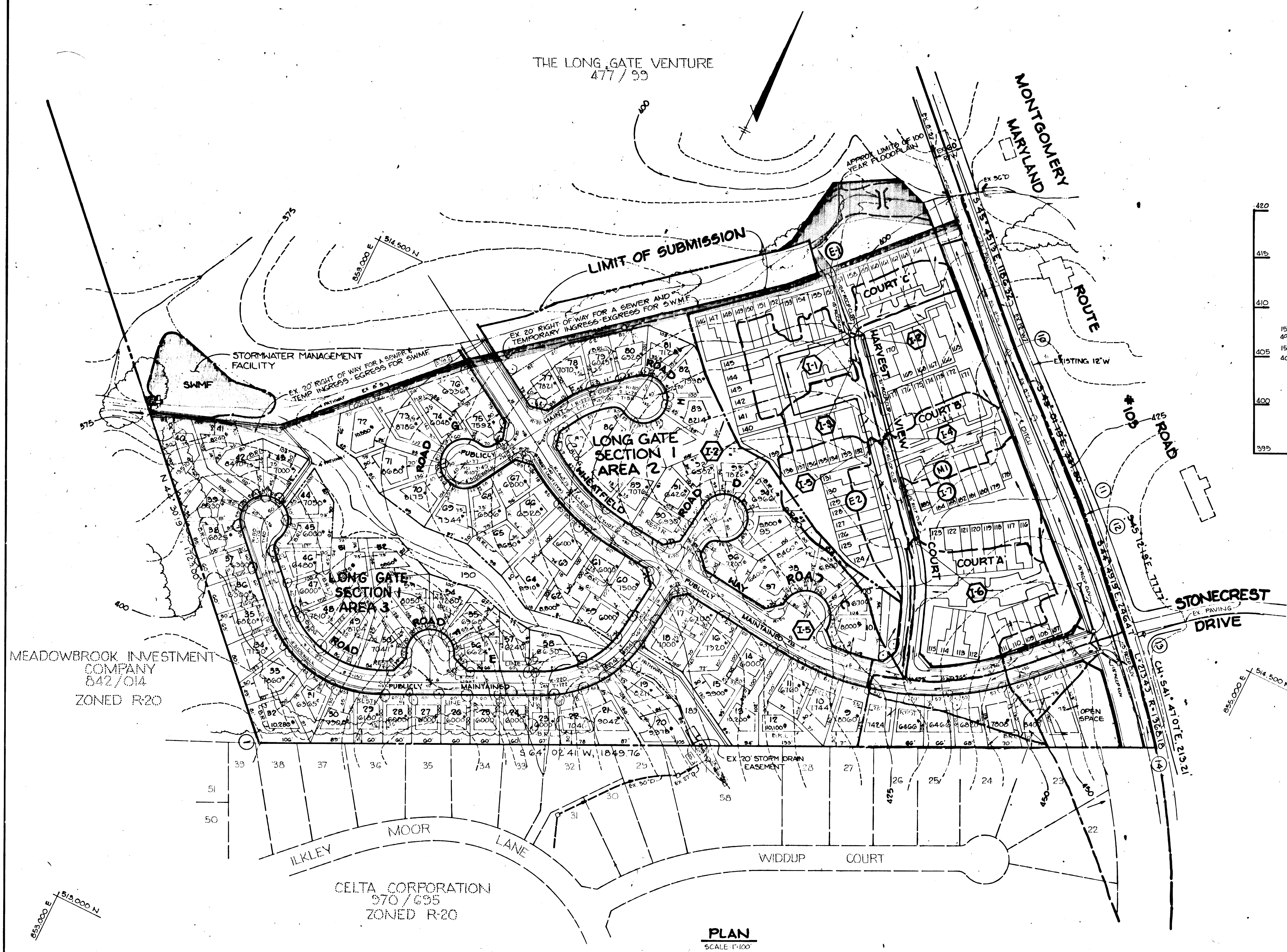
DATE NOV. 12, 1986 PROJECT NO 0546  
SCALE AS SHOWN DRAWING 4 OF 7

THE LONG GATE VENTURE  
477 / 99

| DRAINAGE AREA TABULATION |      |      |      |        |
|--------------------------|------|------|------|--------|
| AREA                     | AREA | C    | IMP% | ZONING |
| I-1                      | 116  | 0.56 | 45   | R5C    |
| I-2                      | 192  | 0.46 | 50   | R5C    |
| I-3                      | 154  | 0.65 | 57   | R5C    |
| I-4                      | 0.68 | 0.68 | 74   | R5C    |
| I-5                      | 0.44 | 0.59 | 62   | R5C    |
| I-6                      | 1.60 | 0.56 | 47   | R5C    |
| I-7                      | 1.12 | 0.29 | 18%  | R5C    |
| E-2                      | 1.10 | 0.28 | 17%  | R5C    |



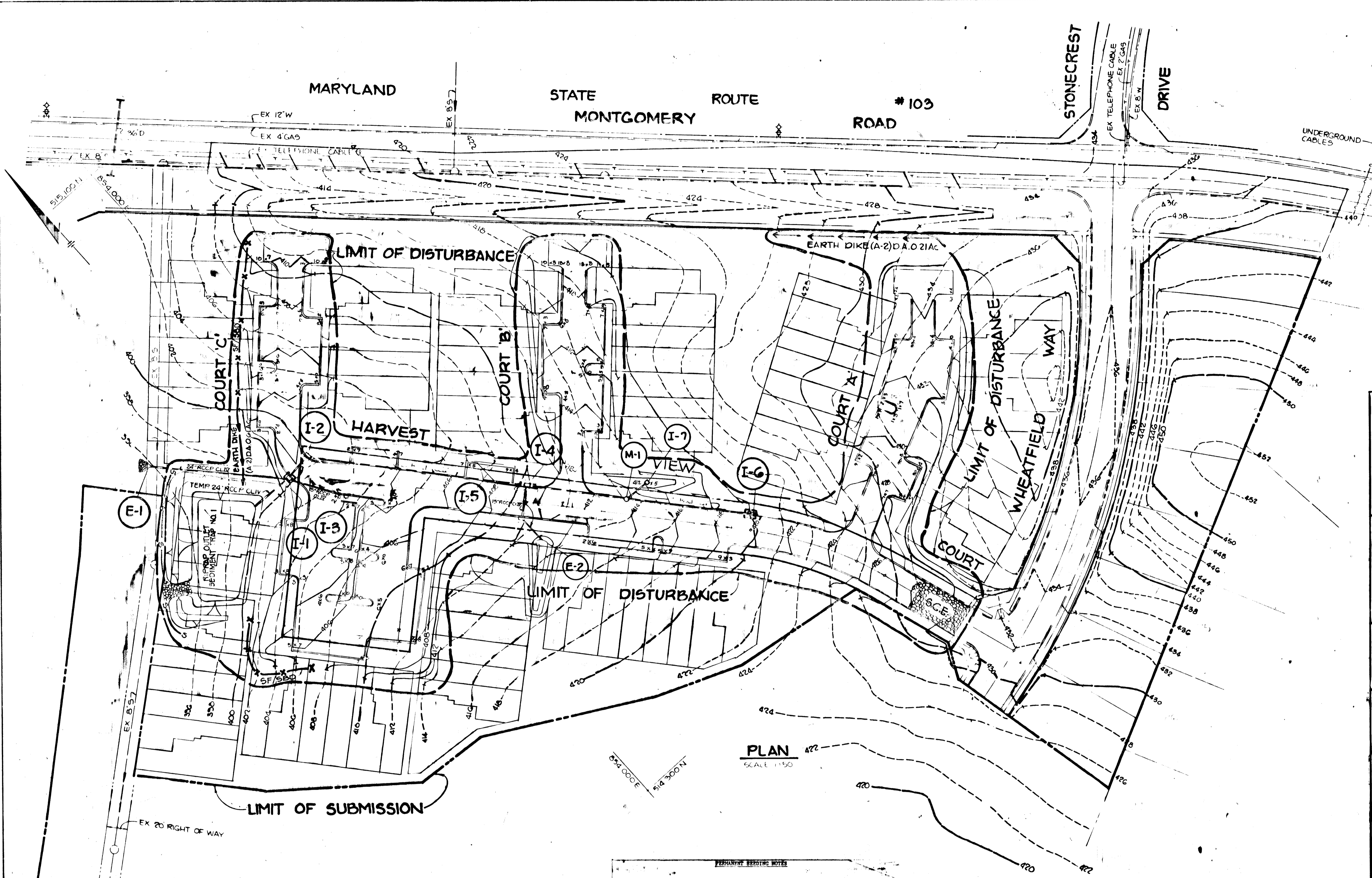
PROFILES  
SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



MEADOWBROOK INVESTMENT COMPANY  
842/014  
ZONED R-20

CELTA CORPORATION  
970/635  
ZONED R-20

|  |  |
|--|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS   |  |
| <i>William S. Rice</i>   | 11-21-86                                     |
| CHIEF, BUREAU OF ENGINEERING   | DATE   |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  |  |
| <i>John W. Muehman</i>   | 11-18-86                                     |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  | DATE   |
| 1 5/22/87  | ADD STORMDRAINS FROM M-2 TO I-7 & I-5 TO E-2 |
| NO DATE  | REVISION                                     |
| <b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b><br>planning • architecture • engineering<br>8480 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105 |  |
| OWNER: SECURITY DEVELOPMENT CORP<br>P.O. BOX 417<br>ELLICOTT CITY, MD 21045  |  |
| PROJECT: <b>LONG GATE</b><br>SECTION 1, AREA 2<br>LOTS 107 THRU 190  |  |
| DEVELOPER: SECURITY DEVELOPMENT CORP<br>P.O. BOX 417<br>ELLICOTT CITY, MD 21045  |  |
| LOCATION: 2ND ELECTION DISTRICT HOWARD COUNTY, MD<br>TAX MAP NOS 30431 ZONING MAP NOS 30431<br>PARCEL 18   |  |
| TITLE: <b>DRAINAGE AREA MAP</b>  |  |
| DES: JKT   | DRN: JLT                                     |
| DATE: NOV. 12, 1986  | PROJECT NO: 8546                             |
| SCALE: 1"=100'   | DRAWING: 5 OF 7                              |



- SEQUENCE OF CONSTRUCTION
- DAY 1 1.) OBTAIN A GRADING PERMIT
  - DAY 2-5 2.) INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES AND SILT FENCE OR STRAW BALE DIKE
  - DAY 5-9 3.) INSTALL SEDIMENT TRAP NO. 1 AND STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES
  - DAY 9-19 4.) GRADE SITE TO SUB-GRADE
  - DAY 19-49 5.) INSTALL UTILITIES AND STORM DRAINS OMITTING 24" DRAIN FROM I-1 TO E-1 AND INSTALLING TEMPORARY 24" DRAIN FROM E-1 TO SEDIMENT TRAP NO. 1 BLOCKING
  - DAY 49-52 6.) STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES
  - DAY 52-73 7.) COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES
  - DAY 73-83 8.) UPON THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR:
    - a.) REMOVE TEMPORARY 24" DRAIN FROM I-1 TO SEDIMENT TRAP NO. 1 AND INSTALL 24" DRAIN FROM I-1 TO E-1
    - b.) REMOVE SEDIMENT TRAP NO. 1
    - c.) STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES

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."

*James R. Moxley* 11-12-86  
 JAMES R. MOXLEY, JR.  
 SECURITY DEVELOPMENT CORPORATION, PRESIDENT

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* 11-12-86  
 JAMES K. TRACY, P.E.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*Janet M. Helm* 11-17-86  
 U.S. SOIL CONSERVATION SERVICE

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

*Stephen L. Fluh* 11-17-86  
 HOWARD S.C.D.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*John W. Murchman* 11-18-86  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James K. Tracy* 11-20-86  
 CHIEF, BUREAU OF ENGINEERING  
 2 5/22/87 ADD STORMDRAIN FROM M2 TO I-7 & I-5 TO E-2  
 4/3/87 REVISED GRADING  
 NO DATE REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering

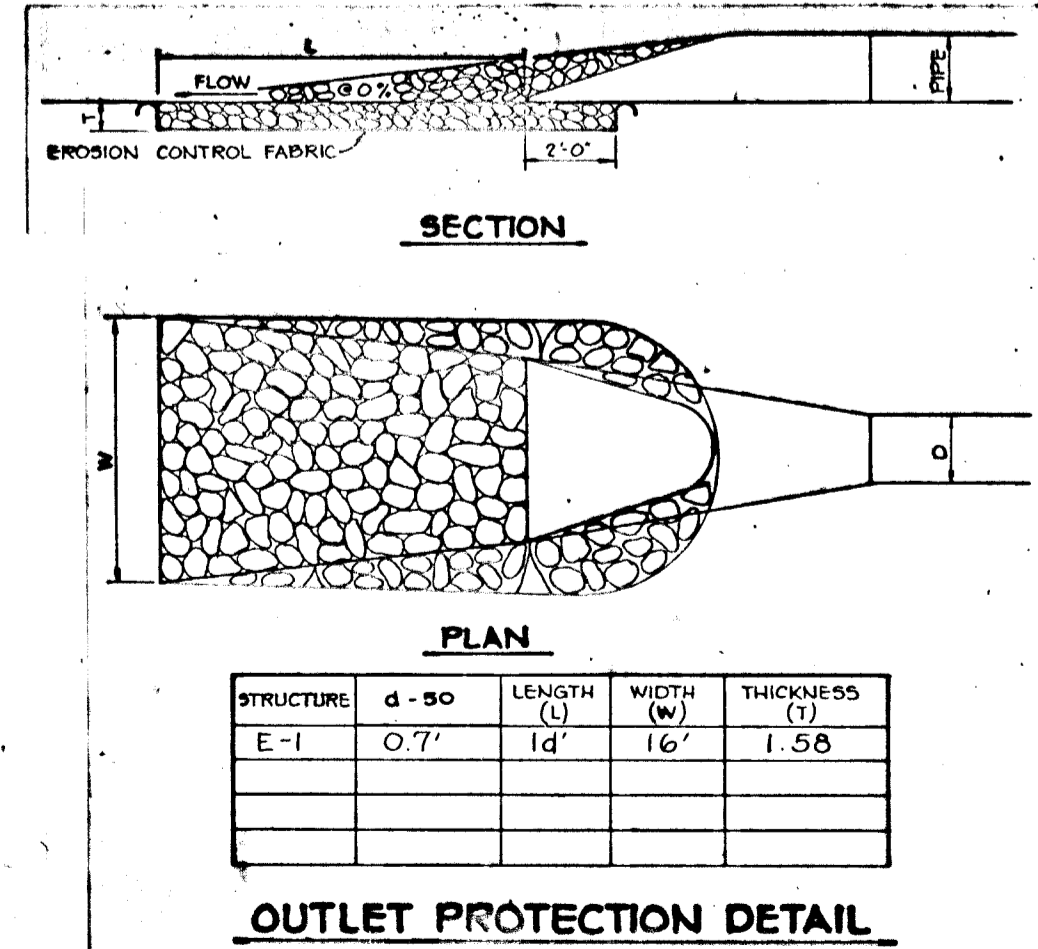
8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

|  |   |
|--|---|
| OWNER  | PROJECT   |
| SECURITY DEVELOPMENT CORP<br>PO BOX 417<br>ELLICOTT CITY, MD 21043 | <b>LONG GATE</b><br>SECTION I AREA 4<br>LOTS 6 THROUGH 100<br>LOCATION TAX MAP NOS 30 & 31<br>PARCEL 18<br>2 <sup>ND</sup> ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND |
| DEVELOPER  | TITLE   |
| SECURITY DEVELOPMENT CORP<br>PO BOX 417<br>ELLICOTT CITY, MD 21043 | <b>GRADING AND SEDIMENT CONTROL PLAN</b>  |
| DES JKT  | DRN KAM   |
| SCALE 1"=50'   | DRAWING 6 OF 7  |
| DATE: NOV. 12, 1986  | PROJECT NO 8546   |

PLAN  
SCALE 1"=50'

**SEDIMENT TRAP NO. 1**

|                    |             |
|--------------------|-------------|
| DRAINAGE AREA      | 8.54 AC.    |
| STORAGE VOLUME     |             |
| REQUIRED           | 15372 C.F.  |
| PROVIDED           | 15,900 C.F. |
| CREST ELEVATION    | 325.0       |
| BOTTOM ELEVATION   | 321.0       |
| CLEANOUT ELEVATION | 322.5       |
| BOTTOM DIMENSION   | 100' x 44'  |
| TOP ELEVATION      | 329.0       |
| WEIR LENGTH        | 10'         |



**PERMANENT SEEDING NOTES**

**PREPARED PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 lb/1000 sq ft) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 lb/1000 sq ft) BEFORE SEEDING. BARRON OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 lb/1000 sq ft).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 lb/1000 sq ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 lb/1000 sq ft) BEFORE SEEDING. BARRON OR DISC INTO UPPER THREE INCHES OF SOIL.

**SEEDING -** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 lb/1000 sq ft) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 lb/1000 sq ft) OF WHEATING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE 500. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

**MULCHING -** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 lb/1000 sq ft) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 gal/1000 sq ft) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 gal/1000 sq ft) FOR ANCHORING.

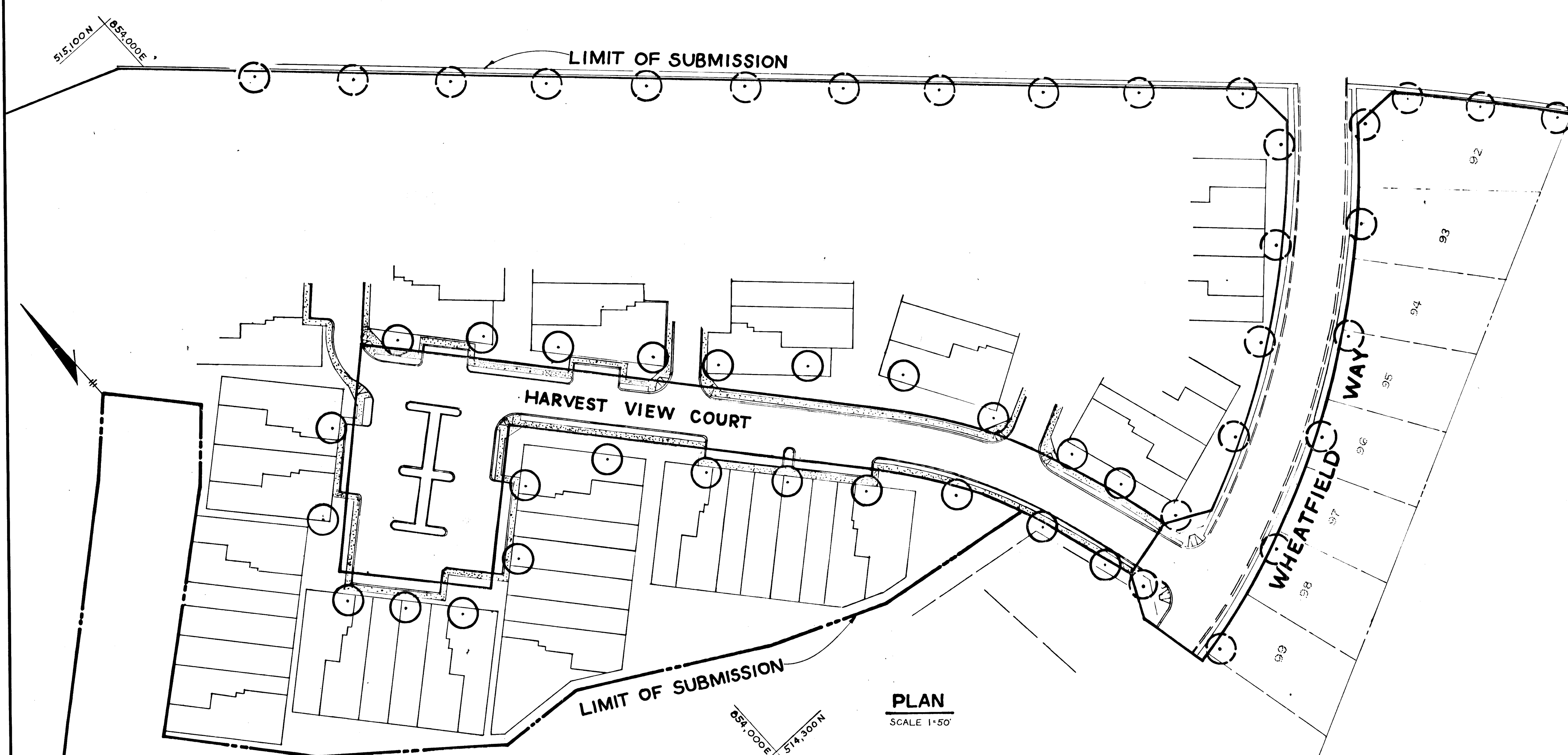
**MAINTENANCE -** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**SEDIMENT CONTROL NOTES**

- 1) A SECTION OF THIS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (892-2437).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, RECOVERY OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 48 HOURS FOR ALL PERMITTED SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 3) 34 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/TRANSITS SHALL BE PERCHED AND MARKING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, SECOND EDITION.
- 5) 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 SEDIMENT CONTROL (Sec. 51) AND TEMPORARY STABILIZATION (Sec. 52) AND MULCHING (Sec. 53). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) **SITE ANALYSIS:**

|                                    |              |
|------------------------------------|--------------|
| TOTAL AREA OF SITE                 | 111 ACRES    |
| AREA TO BE ROOFED OR PAVED         | 42 ACRES     |
| AREA TO BE VEGETATIVELY STABILIZED | 160 ACRES    |
| TOTAL CUT                          | 2200 CU.YDS. |
| TOTAL FILL                         | 2200 CU.YDS. |
- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.
- 10) ALL SEDIMENT TRAPS SHOWN MUST BE PERCHED AND MARKING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, SECOND EDITION.

MARYLAND STATE ROUTE #103



PLAN  
SCALE 1"=50'

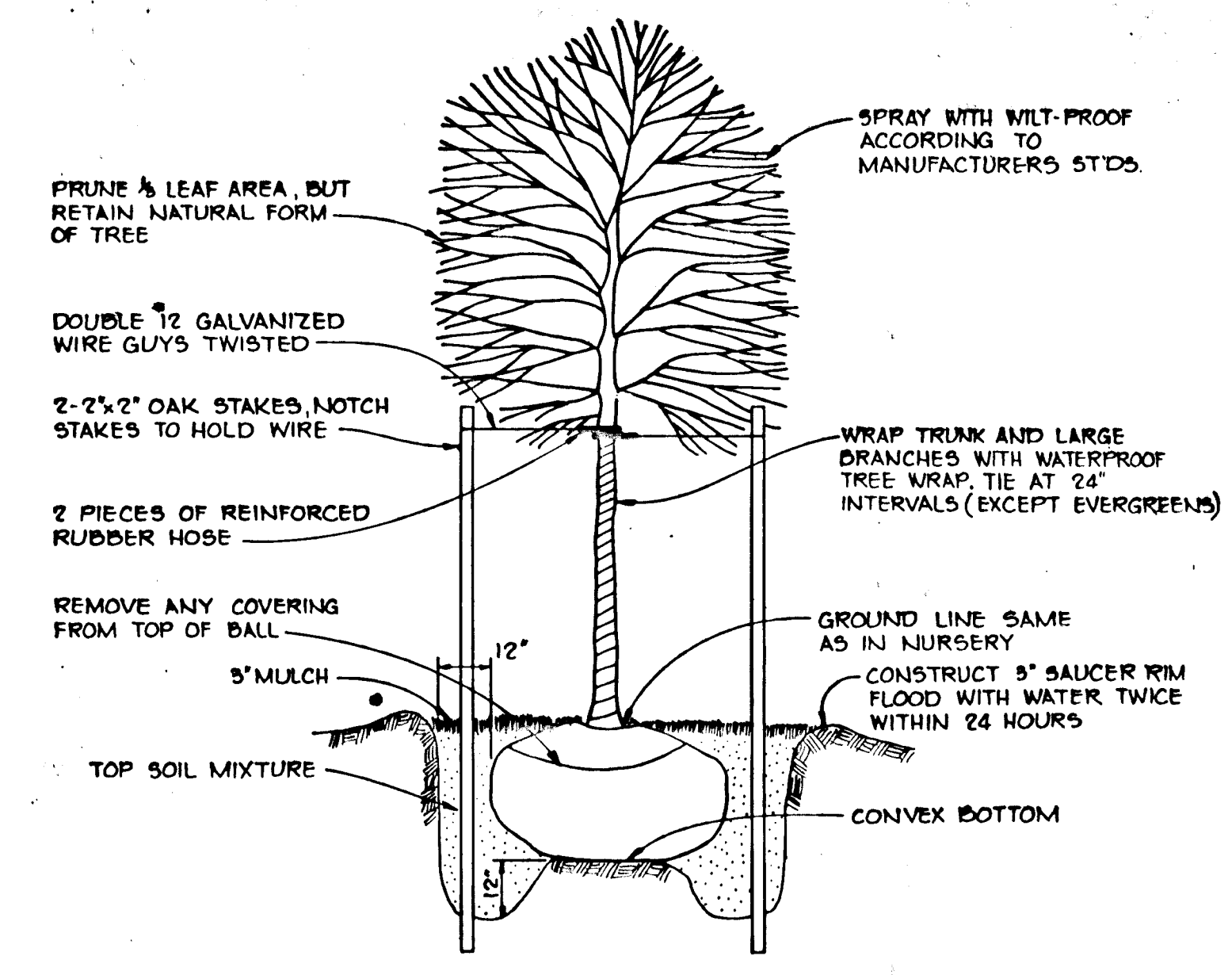
NOTE:  
SUPPLEMENTAL PLANTING SHALL BE PROVIDED  
IN THE SITE DEVELOPMENT PLAN

| PLANT LIST |          |                               |                          |
|------------|----------|-------------------------------|--------------------------|
| SYMBOL     | QUANTITY | NAME                          | REMARKS                  |
| ○          |          | ACER RUBRUM<br>Red Maple      | 2 1/2 Min. Cal.<br>B & B |
|            |          | QUERCUS PALUSTRIS<br>Pin Oak  | Full Head                |
| ○          |          | ACER SACCHARUM<br>Sugar Maple |                          |
|            |          | QUERCUS BOREALIS<br>Red Oak   |                          |
| TOTAL      |          |                               |                          |

EX. STREET TREES INSTALLED  
UNDER F84-135

STREET TREE TABULATION

ROAD RIGHT OF WAY = 554 L.F. @  
ONE TREE PER 40' FRONTAGE: TREES REQUIRED = 13.63  
LENGTH OF LINEAR PROFILE = 499 L.F. @  
ONE TREE PER 80' FRONTAGE: TREES REQUIRED = 6.24  
TOTAL TREES REQUIRED = 20.06  
TREES PROVIDED = 24



TREE PLANTING DETAIL  
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William E. Reilly* 11-26-86  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Mowbray* 11-28-86  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering  
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

*James H. Tracy*

|  |   |
|--|---|
| OWNER<br>SECURITY DEVELOPMENT CORP.<br>PO BOX 417<br>ELLICOTT CITY, MD 21043     | PROJECT<br><b>LONG GATE</b><br>SECTION 1, AREA 4<br>LOTS 167 THRU 190<br>LOCATION TAX MAP NOS. 30 & 31<br>PARCEL 18<br>2 <sup>ND</sup> ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND |
| DEVELOPER<br>SECURITY DEVELOPMENT CORP.<br>PO BOX 417<br>ELLICOTT CITY, MD 21043 | TITLE<br><b>STREET TREE PLAN</b>  |
| DATE NOV. 12, 1986   | PROJECT NO 8546 RSD   |
| DES R JW   | DRN B JM  |
| SCALE AS SHOWN   | DRAWING 7 OF 7  |

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