

| SHEET INDEX | |
|-------------|---|
| NO. | DESCRIPTION |
| 1 | TITLE SHEET |
| 2 | PLAN & PROFILE WHITE ROSE WAY |
| 3 | PLAN & PROFILE ROPE MAKER DRIVE |
| 4 | PLAN & PROFILE GLASSHOUSE COURT, TANFIELD COURT |
| 5 | STORM DRAIN PROFILES |
| 6 | DRAINAGE AREA MAP |
| 7 | DETAILS |
| 8 | GRADING AND SEDIMENT CONTROL PLAN |
| 9 | SEDIMENT CONTROL NOTES & DETAILS |

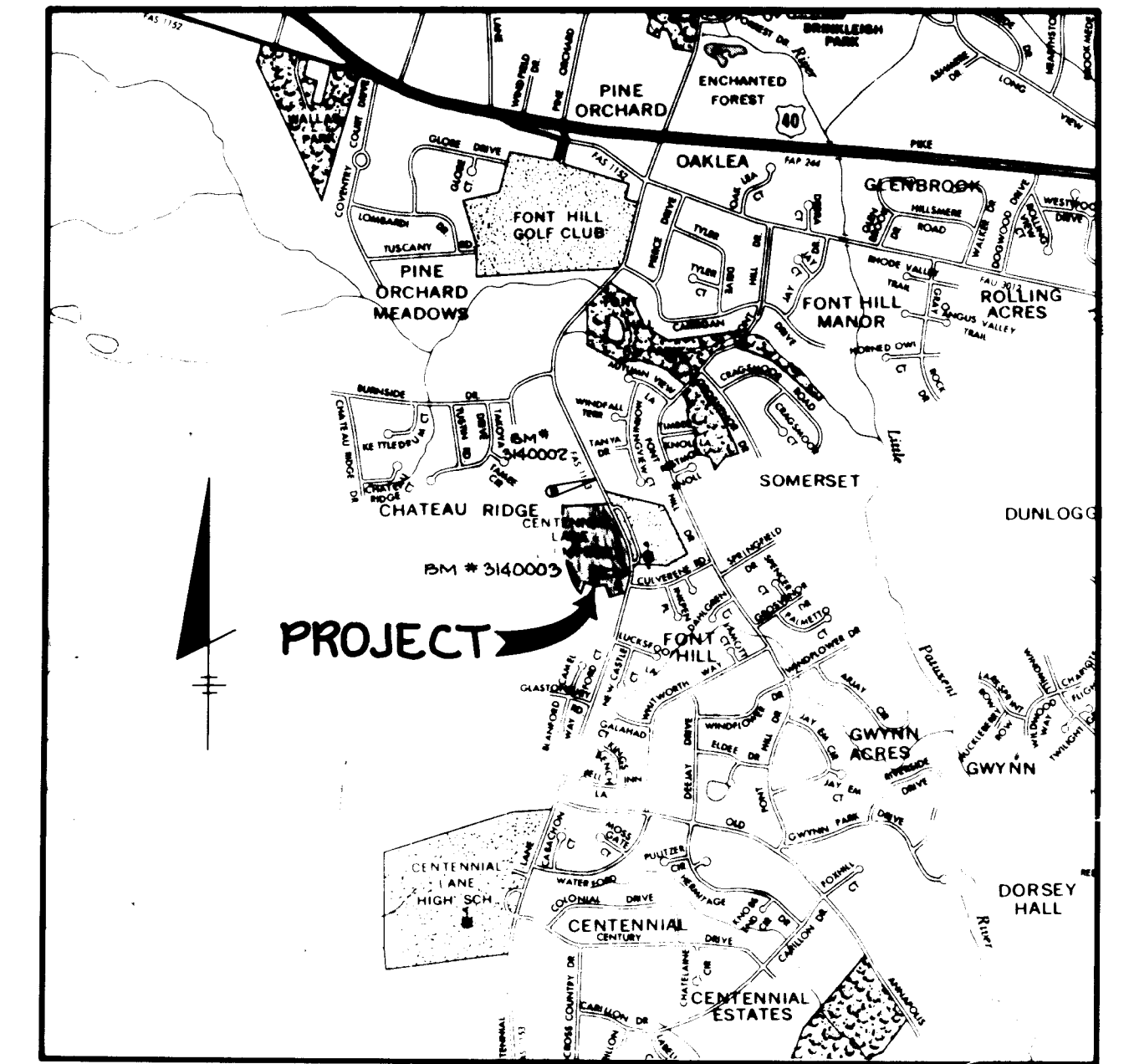
ROADWAY AND STORM DRAINS

BURLEIGH MANOR

SECTION 4 AREA 5

2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



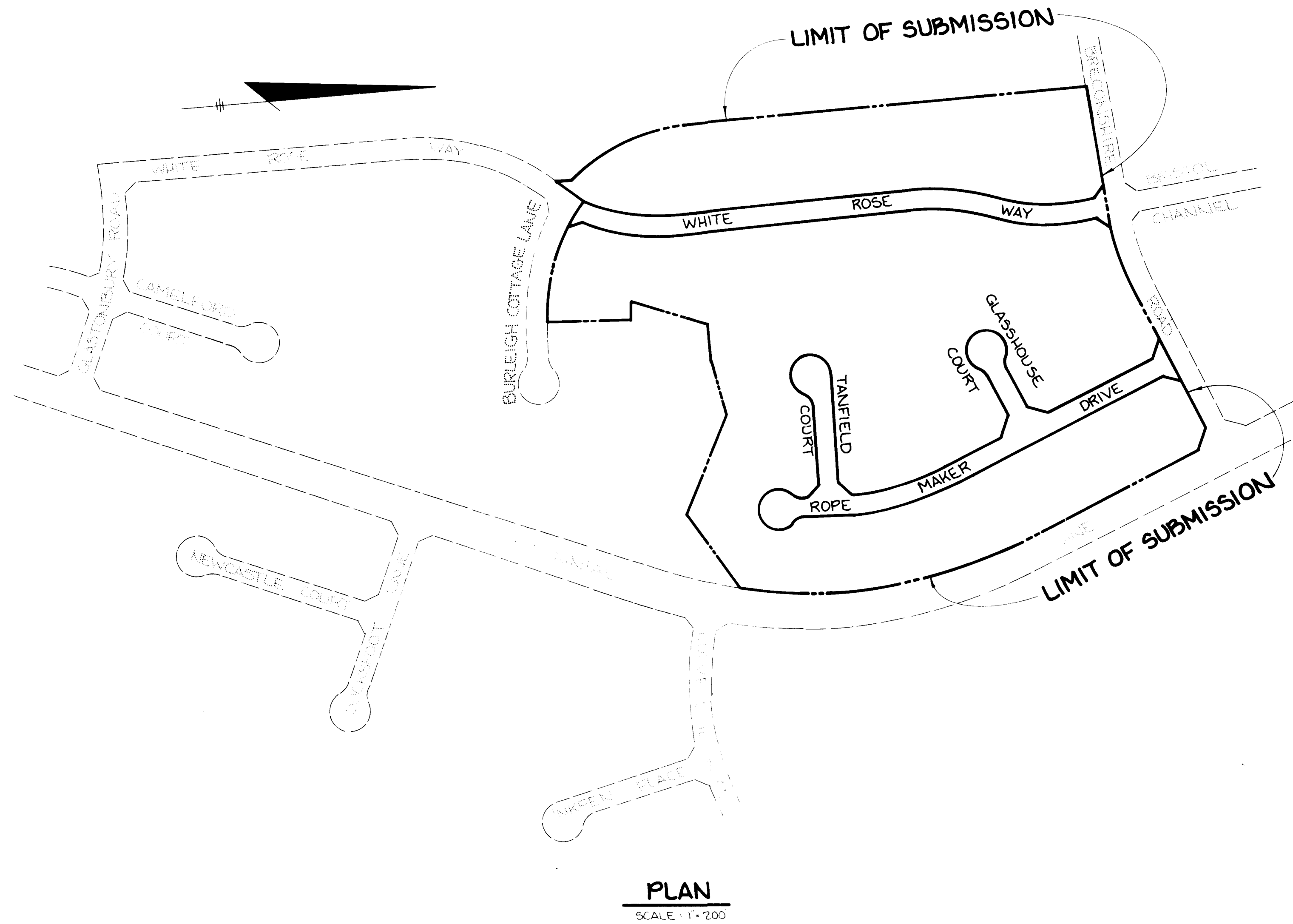
VICINITY MAP
SCALE: 1" = 2000'

| BENCH MARK DESCRIPTIONS | |
|-------------------------|--|
| * 3140003R | ELEV 423.976 CONCRETE MONUMENT, FLUSH WITH GROUND, 25' ± EAST OF 'E' ROAD |
| * 3140002R | ELEV 445.770 CONCRETE MONUMENT, FLUSH WITH GROUND |

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.
3. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER. A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
5. 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 | 539-8000 EXT. 691 |
| HOWARD COUNTY BUREAU OF UTILITIES | 992-2366 |
| HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION | 992-2417/2418 |
6. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
7. ALL STREET CURB RETURNS SHALL HAVE 25.0' RADIUS UNLESS OTHERWISE NOTED.
8. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
9. INSTALLATION OF TRAFFIC CONTROL DEVICES MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
10. 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.
11. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:
ALL CUL-DE-SAC DESIGNED FOR 20 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
12. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
13. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
14. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
15. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
16. SUBJECT PROPERTY ZONED R-20 PER 10-3-77 COMPREHENSIVE ZONING PLAN.
17. STORM WATER MANAGEMENT HAS BEEN PROVIDED BY OTHERS UNDER F 80-08.



*A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253; AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

| | |
|---|----------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | |
| <i>Tracy & Ray</i> | 2-17-84 |
| STATE ENGINEERING | DATE |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | |
| <i>Asst. Planning</i> | 2-14-84 |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION | DATE |
| 1 3-15-84 EXISTING STREET NAME CHANGED | |
| NO. DATE | REVISION |

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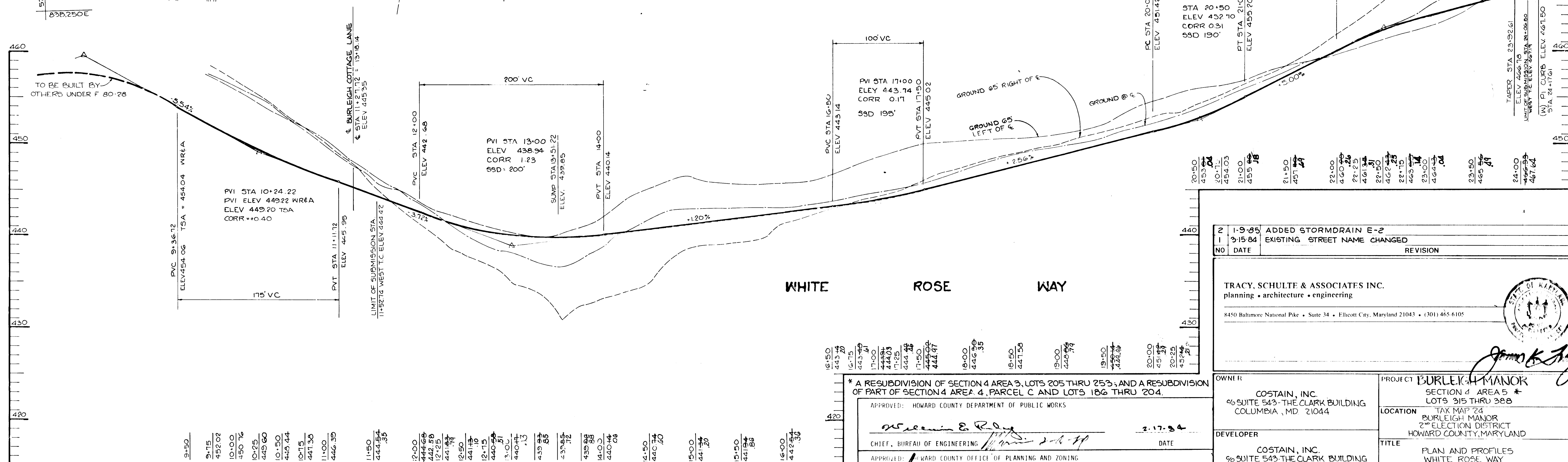
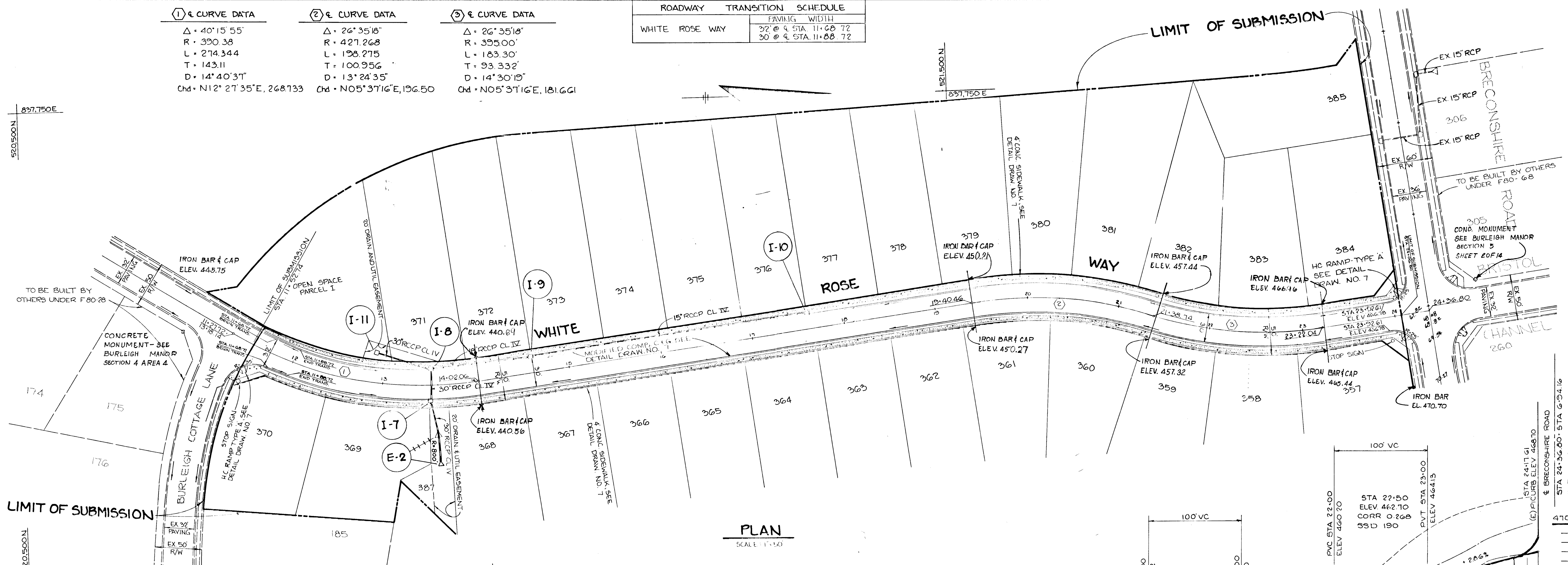
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

| | |
|--|--|
| OWNER COSTAIN, INC. % SUITE 543-THE CLARK BUILDING COLUMBIA, MD 21044 | PROJECT BURLEIGH MANOR SECTION 4 AREA 5 * LOTS 315 THRU 388 |
| DEVELOPER COSTAIN, INC. % SUITE 543-THE CLARK BUILDING COLUMBIA, MD 21044 | LOCATION TAX MAP 24 BURLEIGH MANOR 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE TITLE SHEET | DATE 1-19-84 PROJECT NO 1683 RSD |
| DES JKT/JRS DHM KAM | SCALE 1"=200' DRAWING 1 OF 9 |

#721

| ① CURVE DATA | ② CURVE DATA | ③ CURVE DATA |
|----------------------------|---------------------------|----------------------------|
| Δ = 40°15'55" | Δ = 26°35'18" | Δ = 26°35'18" |
| R = 390.38 | R = 421.268 | R = 395.00' |
| L = 274.344 | L = 198.275 | L = 183.30' |
| T = 143.11 | T = 100.956 | T = 93.332' |
| D = 14°40'37" | D = 13°24'35" | D = 14°30'19" |
| Chd = N12°27'35"E, 268.733 | Chd = N05°37'16"E, 196.50 | Chd = N05°37'16"E, 181.661 |

| ROADWAY | TRANSITION | SCHEDULE |
|----------------|---------------------|----------|
| WHITE ROSE WAY | PAVING | WIDTH |
| | 22' @ STA. 11+68.72 | |
| | 30' @ STA. 11+88.72 | |



| NO | DATE | REVISION |
|----|---------|------------------------------|
| 2 | 1-9-85 | ADDED STORMDRAIN E-2 |
| 1 | 3-15-84 | EXISTING STREET NAME CHANGED |

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* A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253, AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William E. Roy 2-17-84
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William M. ... 2-14-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

OWNER: COSTAIN, INC. % SUITE 543-THE CLARK BUILDING COLUMBIA, MD 21044

DEVELOPER: COSTAIN, INC. % SUITE 543-THE CLARK BUILDING COLUMBIA, MD 21044

DES. JRS/JKT DRN. KAM

PROJECT: BURLEIGH MANOR SECTION 4 AREA 5 * LOTS 315 THRU 388

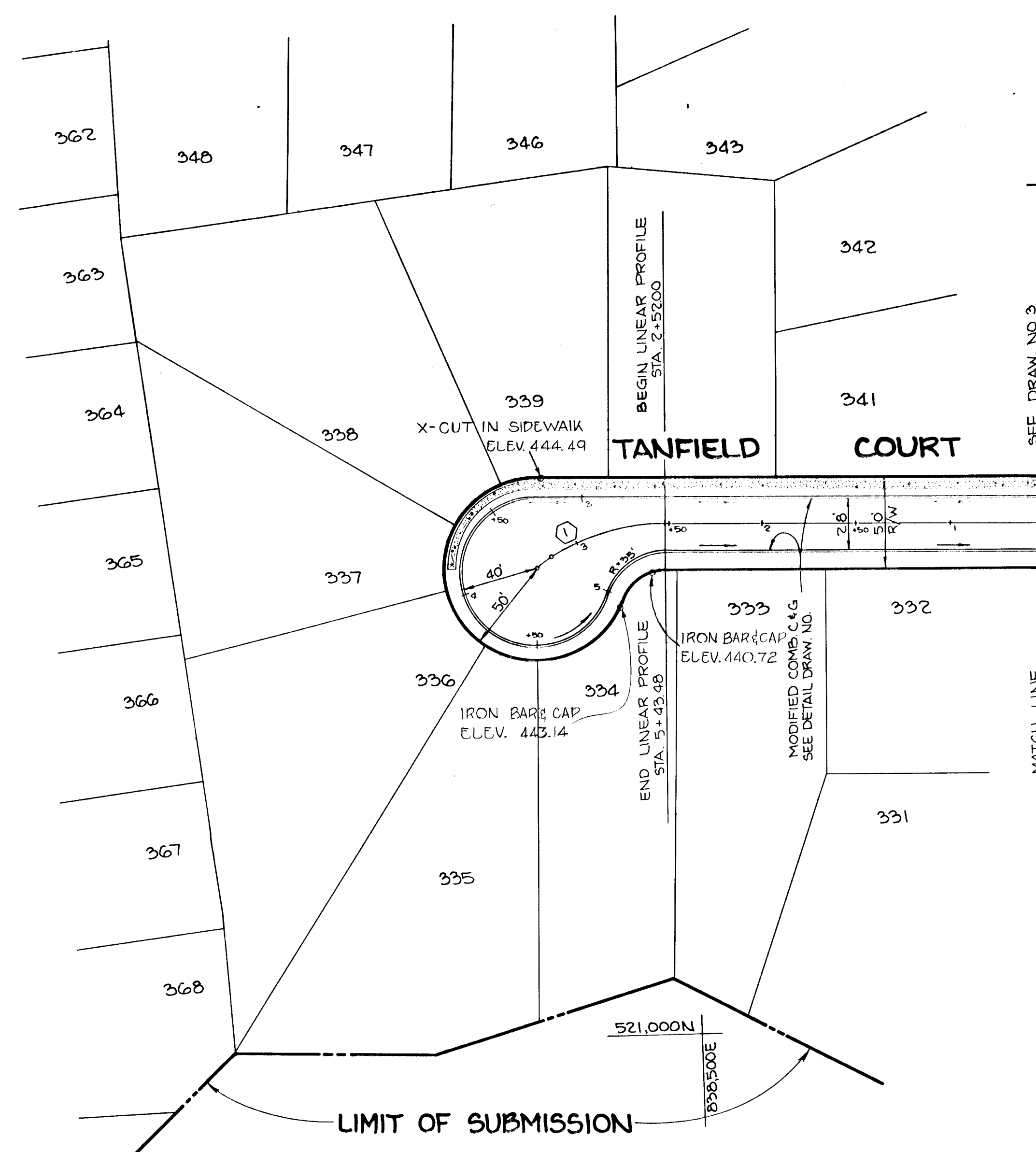
LOCATION: TAX MAP 24 BURLEIGH MANOR 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: PLAN AND PROFILES WHITE ROSE WAY

DATE: 1-9-84 PROJECT NO: 1683 RSD

SCALE: 1" = 50' DRAWING: 2 OF 3

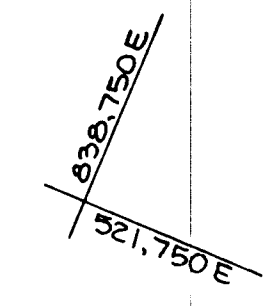
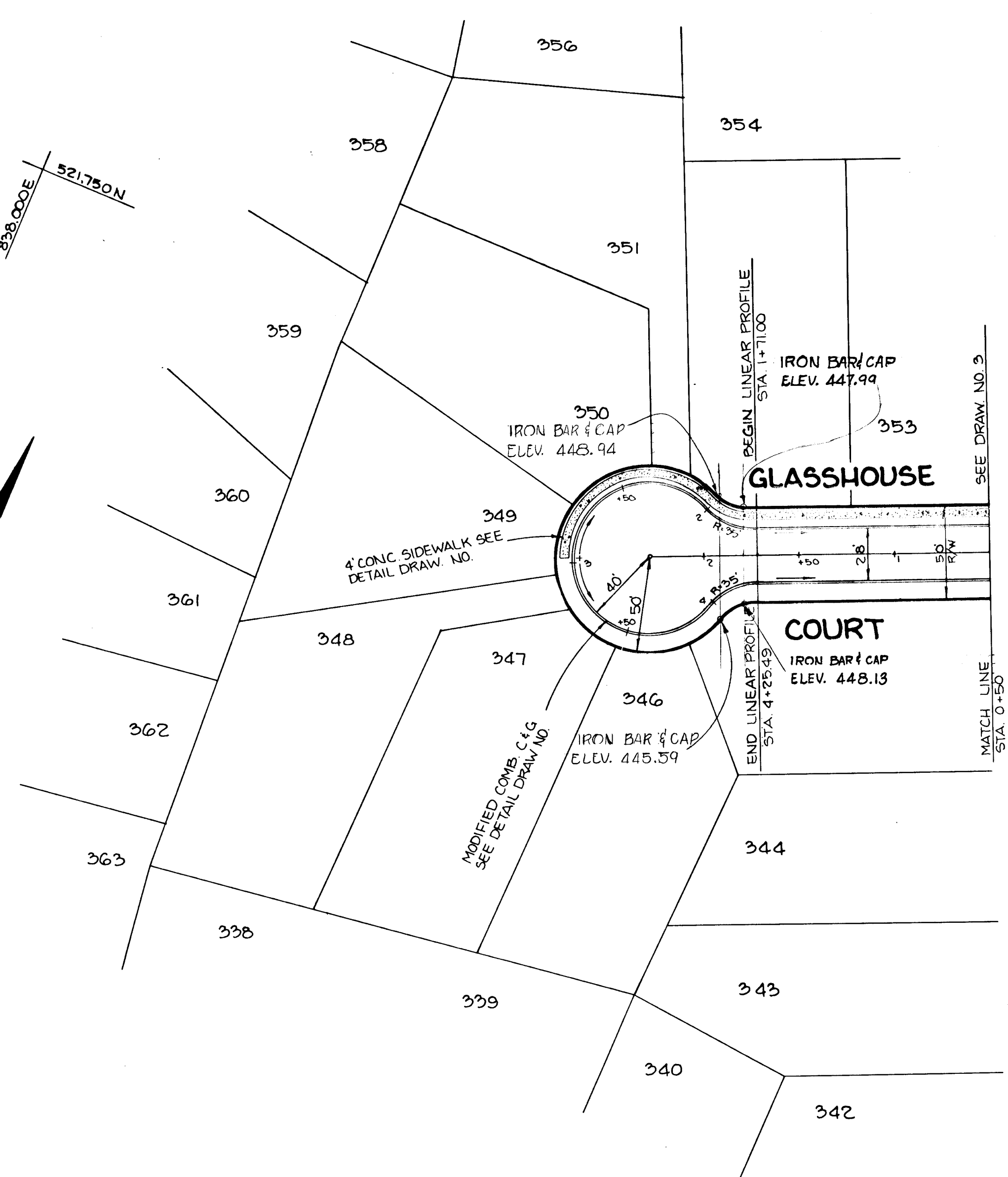
#721



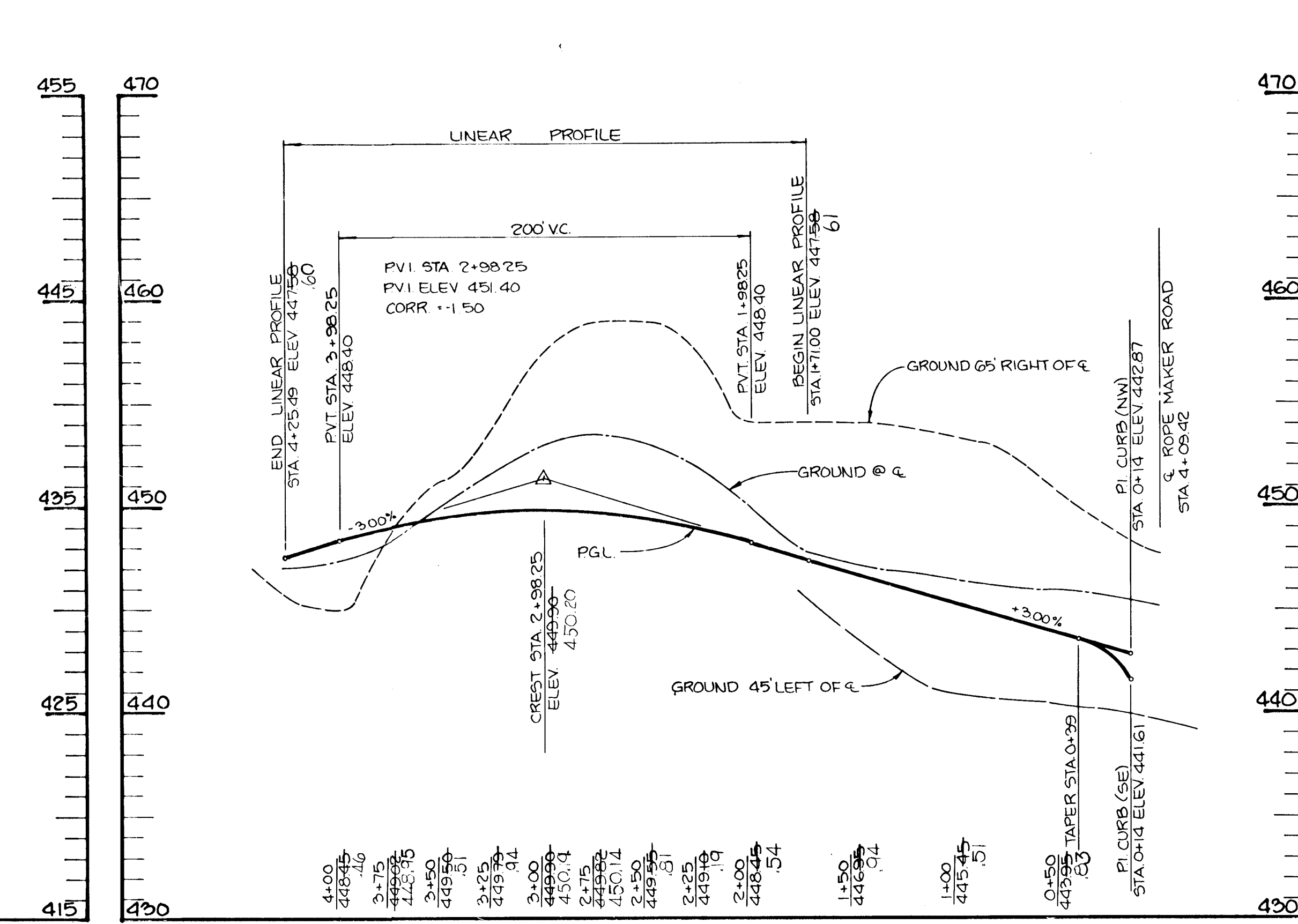
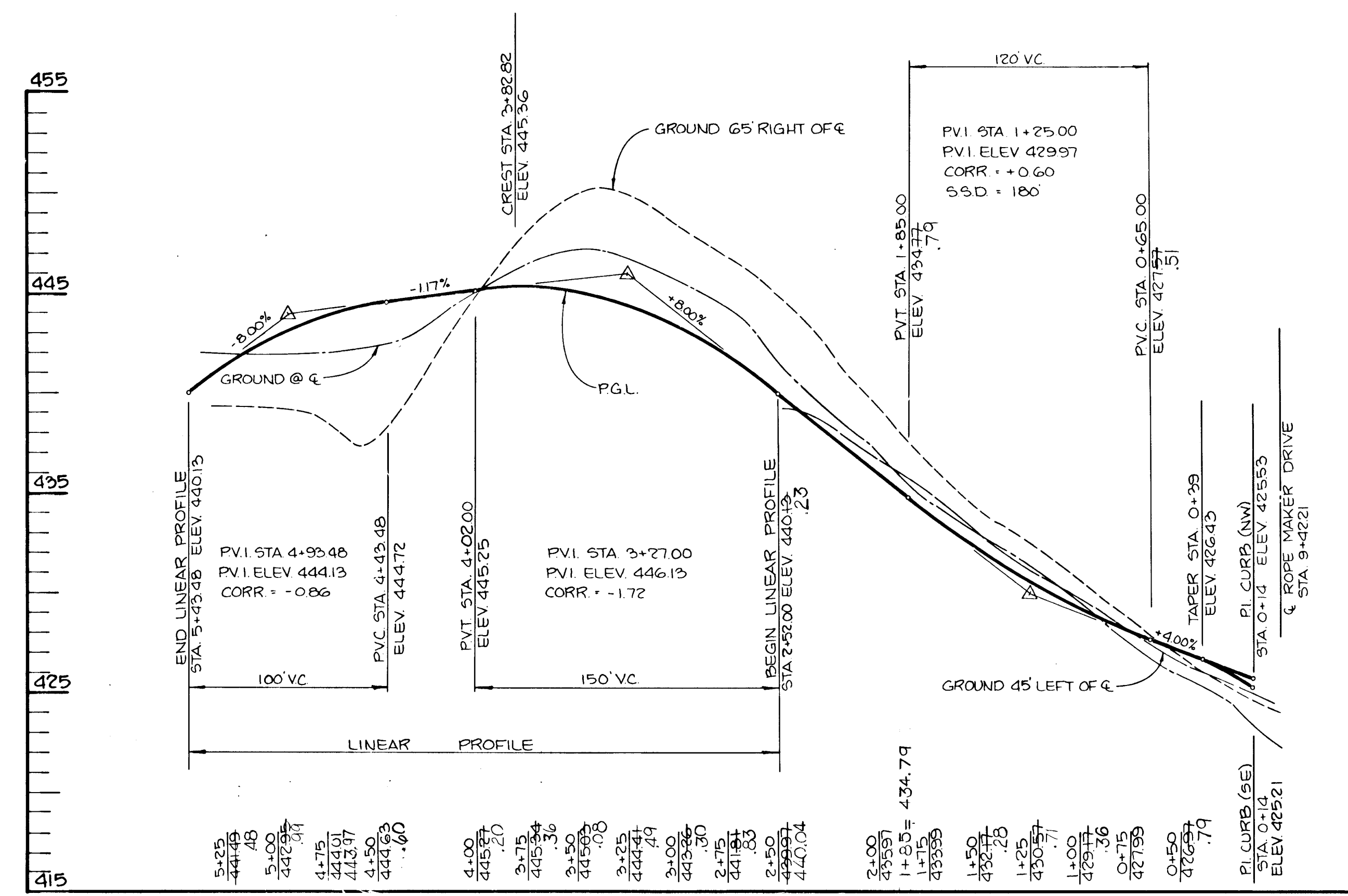
① CURVE DATA
 $\Delta = 36^{\circ} 04' 15''$
 $R = 109.62'$
 $L = 69.01'$
 $T = 35.69'$
 $D = 52' 16' 04''$
 $Chd = S 85^{\circ} 45' 38'' W 67.88'$



PLAN
SCALE: 1"=50'



PLAN
SCALE: 1"=50'

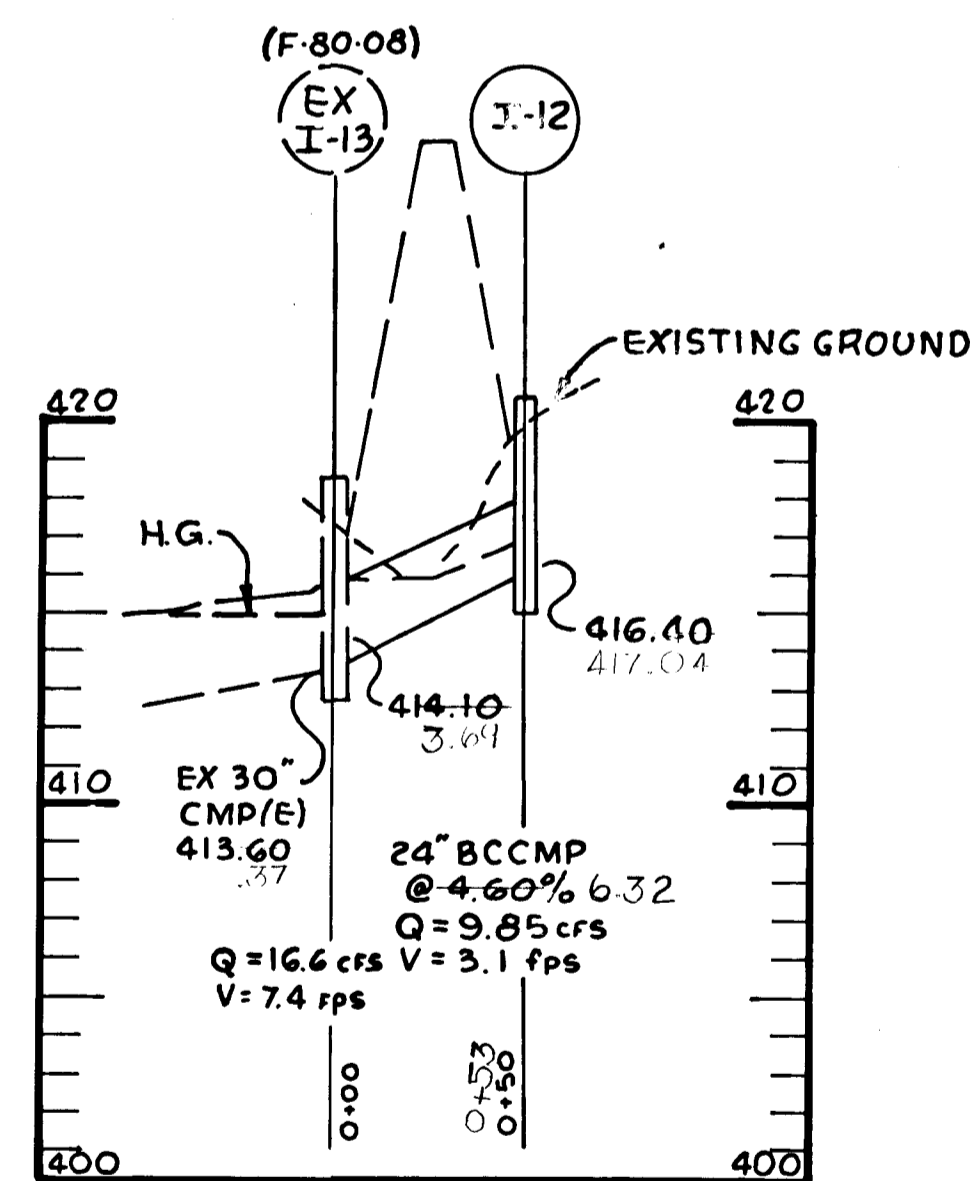
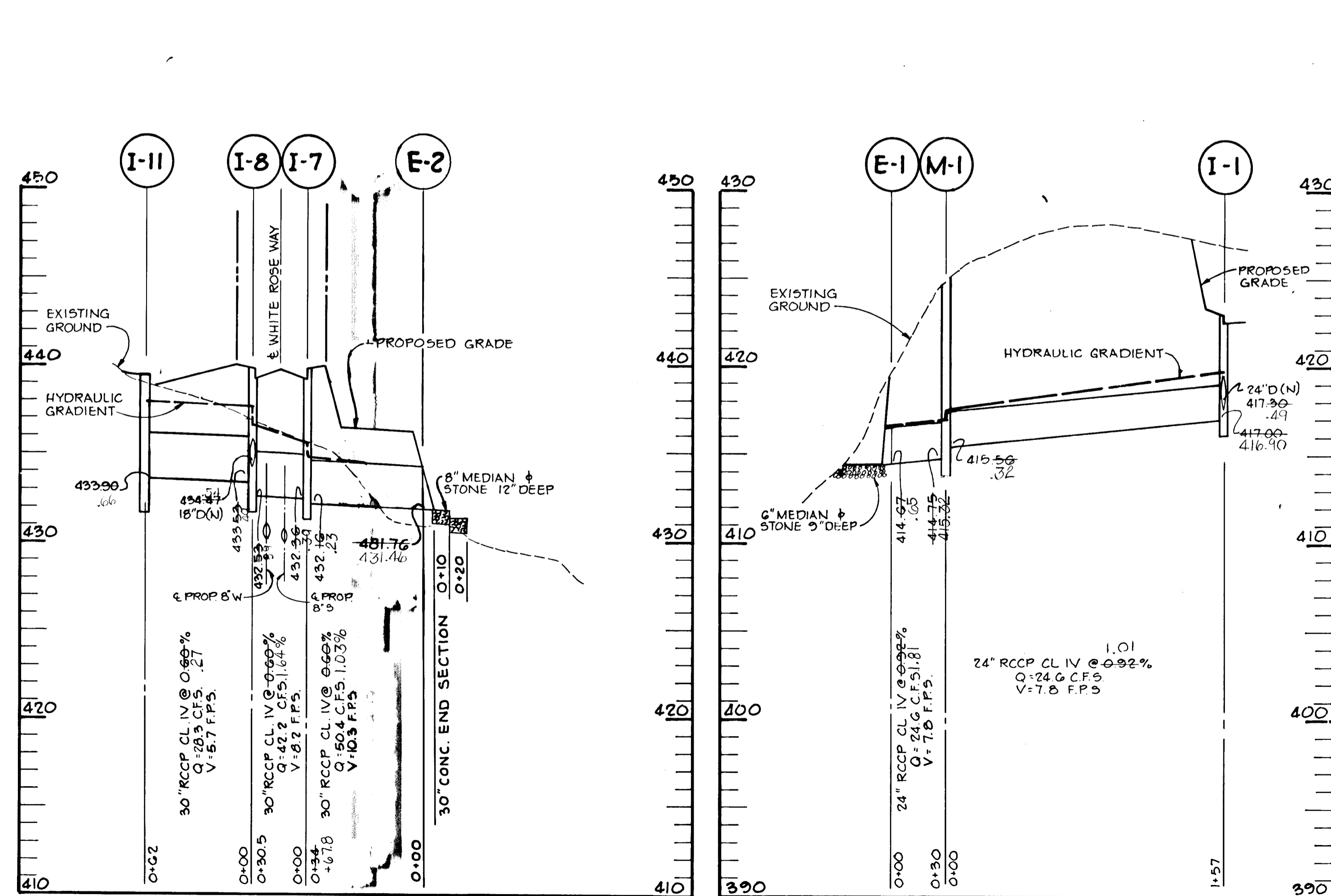
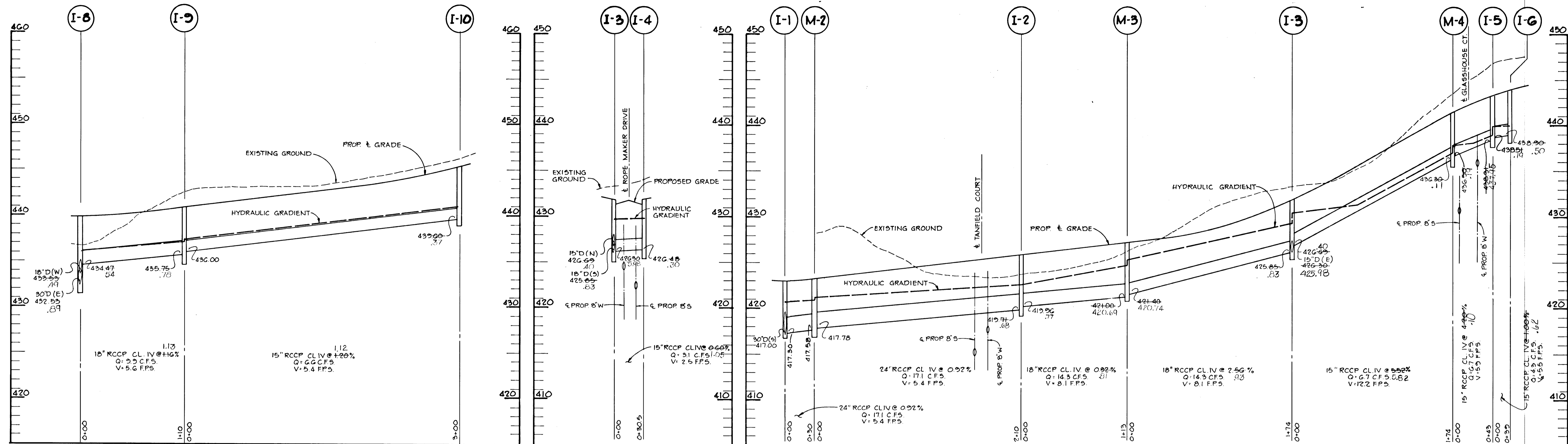


PROFILES
SCALE: H=1"=50' V=1"=5'

470 * A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253; AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

| | | | |
|---|------|--|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | | 2-17-84 | |
| CHIEF, BUREAU OF ENGINEERING | | DATE | |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | | 2-14-84 | |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION | | DATE | |
| NO | DATE | REVISION | |
| TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105 | | | |
| OWNER | | PROJECT | |
| COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD. 21044 | | BURLINGHAM MANOR SECTION 4 AREA 5* LOTS 315 THRU 388 | |
| DEVELOPER | | LOCATION | |
| COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD. 21044 | | TAX MAP 24 BURLINGHAM MANOR 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND | |
| TITLE | | DATE | |
| PLAN AND PROFILE GLASSHOUSE COURT TANFIELD COURT | | 1-19-84 | |
| DES. JKT/JRS | | PROJECT NO 1683 RSD | |
| DRN. KAM | | SCALE: 1"=50' | |
| AS BUILT 4-15-88 | | DRAWING 4 OF 9 | |

#721



* A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253; AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John M. ... 2-14-84
 DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William S. ... 2-17-84
 CHIEF, BUREAU OF ENGINEERING DATE

| | | |
|----|---------|---|
| NO | DATE | REVISION |
| 2 | 1-8-85 | REVISED PROFILE EX I-13 TO I-12 AND E-2 |
| 1 | 5-29-84 | REVISIONS TO STORM DRAIN PROFILES |

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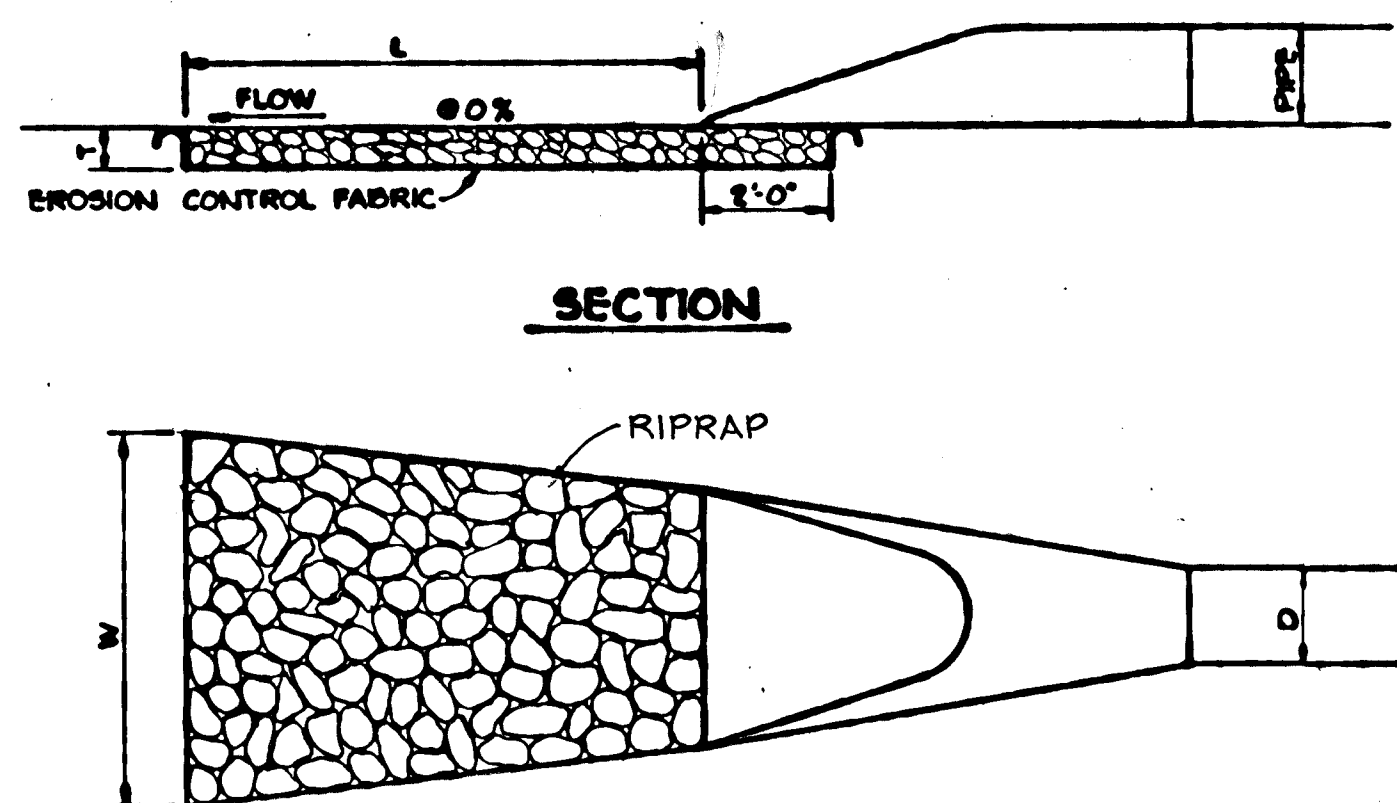
STATE OF MARYLAND
 PROFESSIONAL ENGINEER

John K. Tracy

| | | | |
|-----------|---|------------|--|
| OWNER | COSTAIN, INC. % SUITE 543 THE CLARK BUILDING COLUMBIA, MD 21044 | PROJECT | BURLEIGH MANOR SECTION 4 AREA 5 * LOTS 315 THRU 388 |
| DEVELOPER | COSTAIN, INC. % SUITE 543 THE CLARK BUILDING COLUMBIA, MD 21044 | LOCATION | TAX MAP 24 BURLEIGH MANOR 2 nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE | STORM DRAIN PROFILES | | |
| DATE | 1-19-84 | PROJECT NO | 1683 RSD |
| DES. JKT | DRN RJW | SCALE | H:1"=50' V:1"=5' |
| | | DRAWING | 5 OF 9 |

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

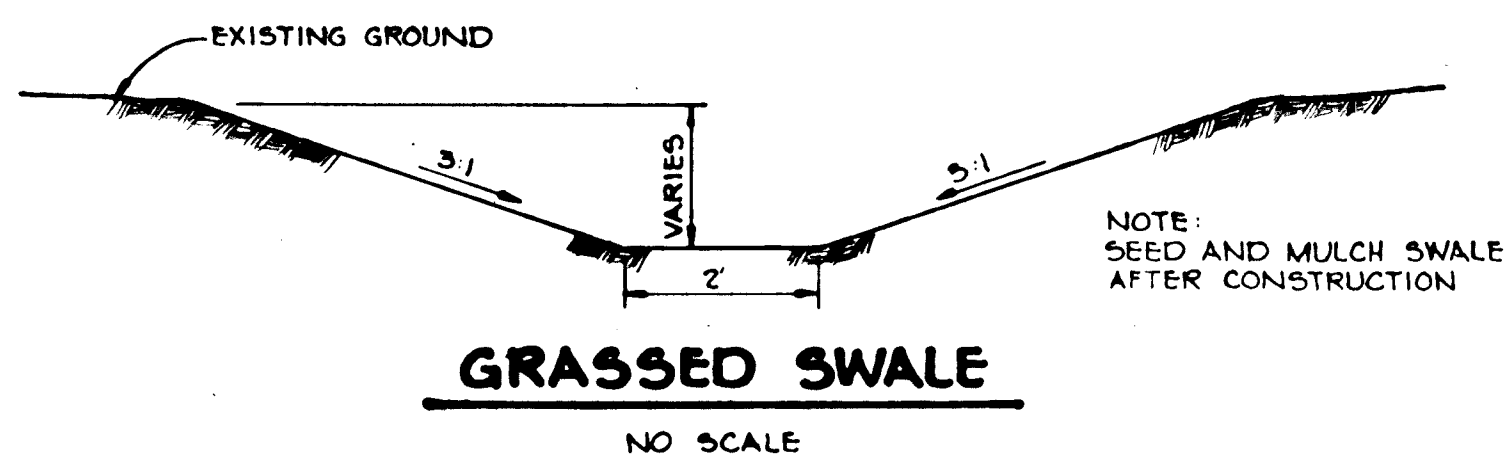
| NO. | TYPE | LOCATION | INV. IN | INV. OUT | TOP ELEV. | DESCRIPTION |
|------|------------|---------------|---------|----------|-----------|-------------------|
| I-1 | A-10 | 11+58.5 LP | 417.30 | 417.00 | 422.97 | H.C. Std. SD 4.02 |
| I-2 | A-5 | 9+00.71 14'R | 419.967 | 419.71 | 425.86 | 426.70 SD 4.01 |
| I-3 | A-5w/defl | 6+00 14'L | 426.69 | 425.65 | 431.91 | 431.91 " |
| I-4 | A-5w/defl | 6+00 14'L | 426.69 | 425.65 | 431.91 | 431.91 " |
| I-5 | A-5w/defl | 0+41.5 14'R | 438.51 | 438.31 | 443.69 | 443.69 " |
| I-6 | A-10w/defl | 3+65.47 14'R | 438.90 | 443.03 | 443.03 | 443.03 SD 4.02 |
| I-7 | A-10 | 13+51.22 14'R | 432.567 | 432.16 | 439.85 | 439.85 " |
| I-8 | A-5 | 13.51.22 14'L | 432.567 | 432.53 | 432.98 | 432.98 SD 4.01 |
| I-9 | A-10 | 14+60 14'L | 436.00 | 435.757 | 440.86 | 440.86 SD 4.02 |
| I-10 | A-10w/defl | 17+60 14'L | 439.607 | 439.607 | 445.28 | 445.28 " |
| I-11 | Dw/grate | 17+90 32'L | 433.00 | 440.30 | 440.30 | 440.30 SD 4.11 |
| | | | 433.00 | 440.30 | 440.30 | Open 4 Sides |
| M-1 | STD MH | SEE PLAN | 415.56 | 414.75 | 426.50 | H.C. Std. G 5.01 |
| M-2 | SHALW MH | 11+25LP 10'L | 417.78 | 417.58 | 422.83 | " " " G 5.05 |
| M-3 | SHALW MH | 7+85 10'R | 421.40 | 421.00 | 426.94 | " " " " " |
| M-4 | SHALW MH | 4+27 17'R | 436.60 | 436.30 | 441.68 | " " " " " |
| E-1 | 24"E.S. | SEE PLAN | 414.67 | - | - | H.C. Std. SD 5.51 |
| E-2 | 30"E.S. | 13+60 81'R | 431.76 | - | - | " " " " " |
| I-12 | 'D' | SEE PLAN | - | - | 420.55 | OPEN S.W.N.E |



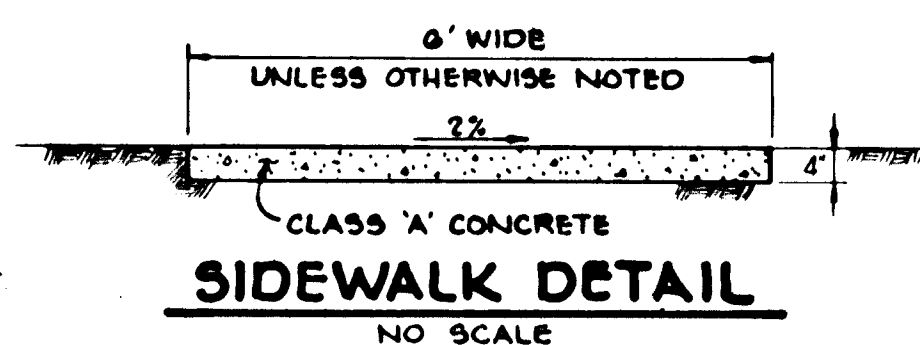
PLAN

| STRUCTURE | MEDIUM STONE DIA. | LENGTH (L) | WIDTH (W) | THICKNESS (T) |
|-----------|-------------------|------------|-----------|---------------|
| E-1 | 6" | 20' | 22' | 9" |
| E-2 | 8" | 20' | 22.5' | 12" |

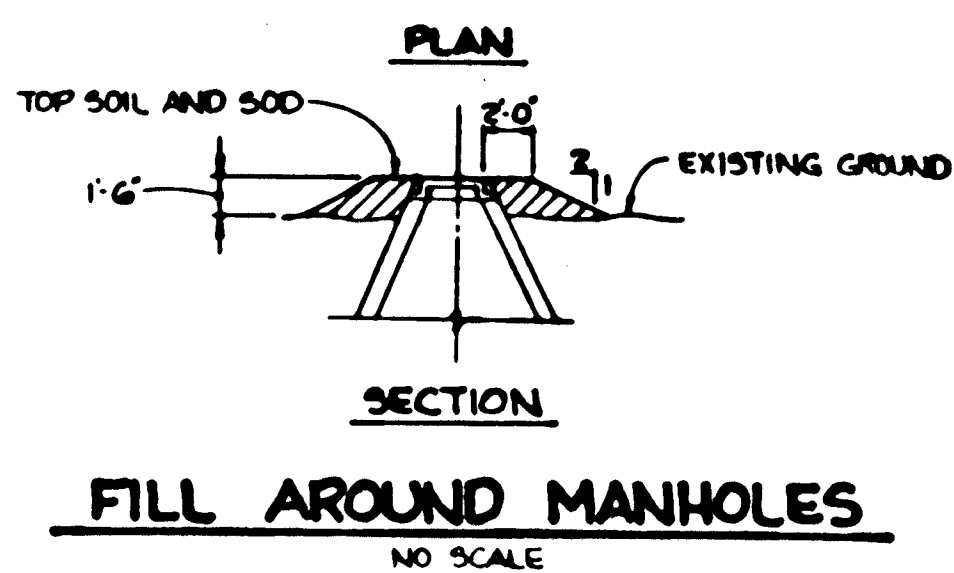
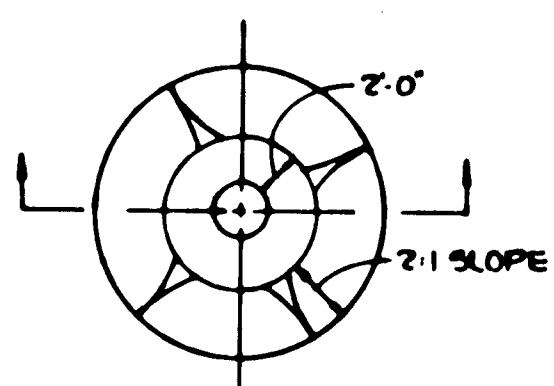
OUTLET PROTECTION DETAIL
NO SCALE



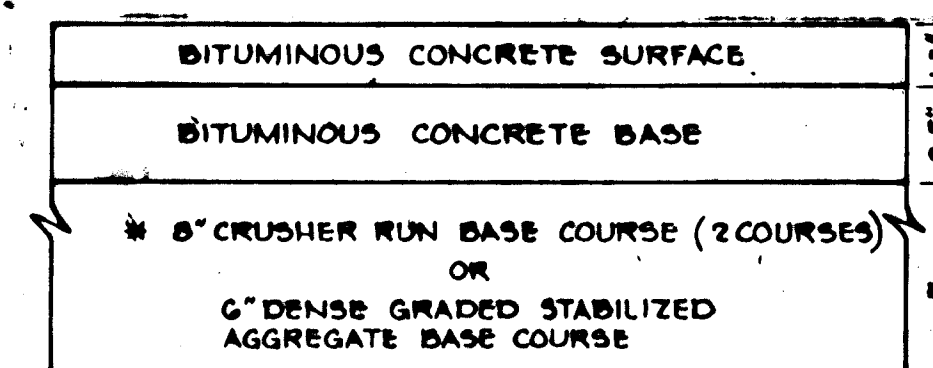
GRASSED SWALE
NO SCALE



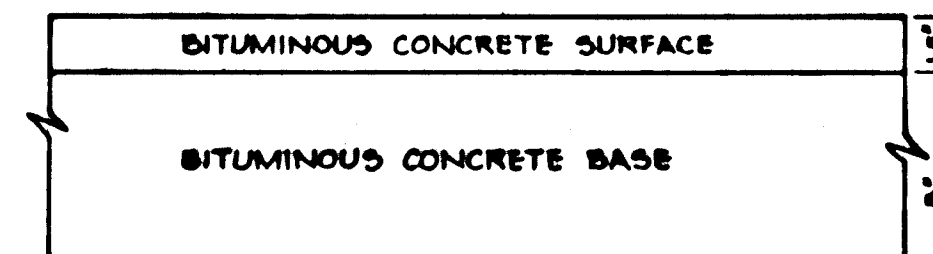
SIDEWALK DETAIL
NO SCALE



FILL AROUND MANHOLES
NO SCALE



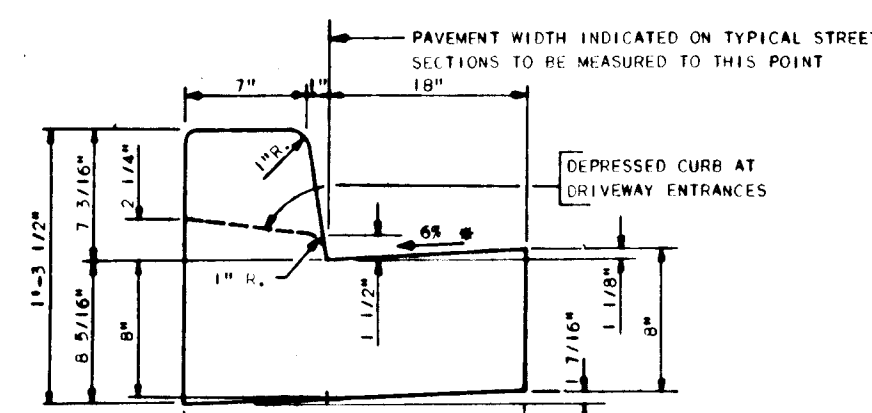
(ALTERNATE)



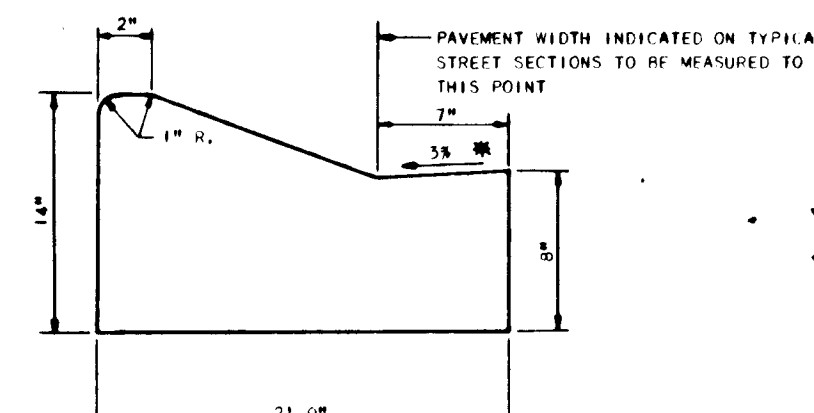
HOWARD COUNTY DESIGN MANUAL VOLUME IV
STANDARD SPECIFICATIONS AND DETAILS FOR
CONSTRUCTION (DRAWING R-201)

6 1/2" PAVING, P-2

TYPICAL PAVING
NO SCALE



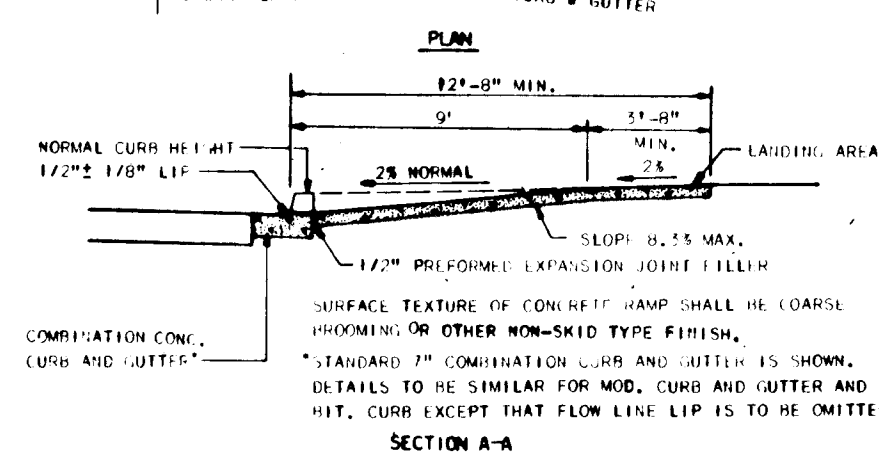
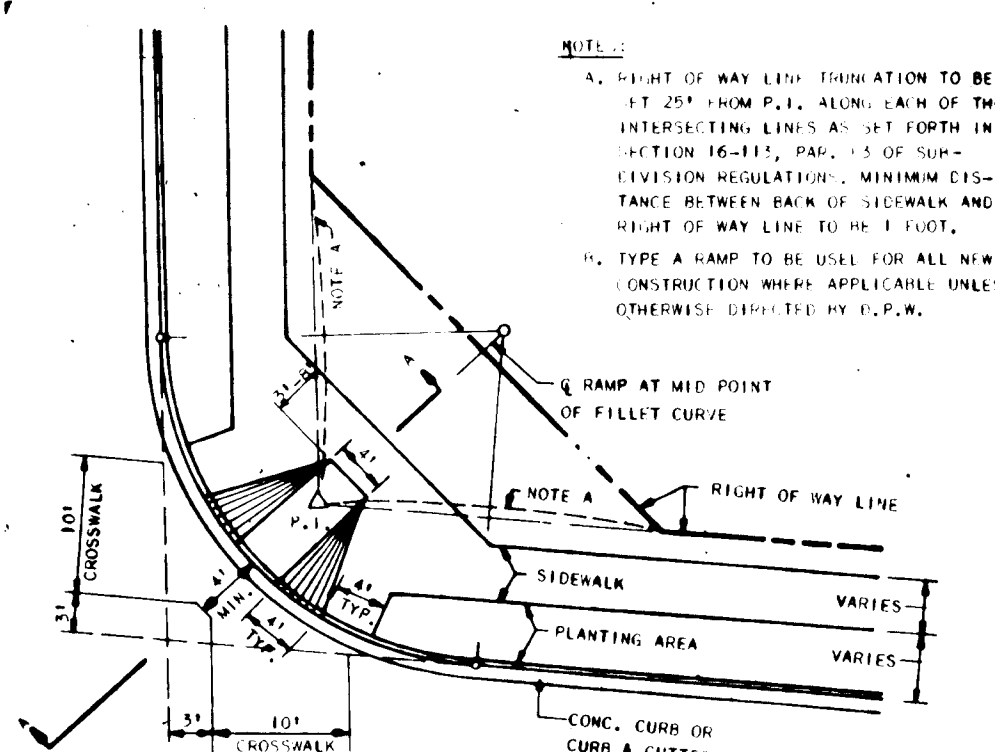
STANDARD 7" COMBINATION CURB AND GUTTER



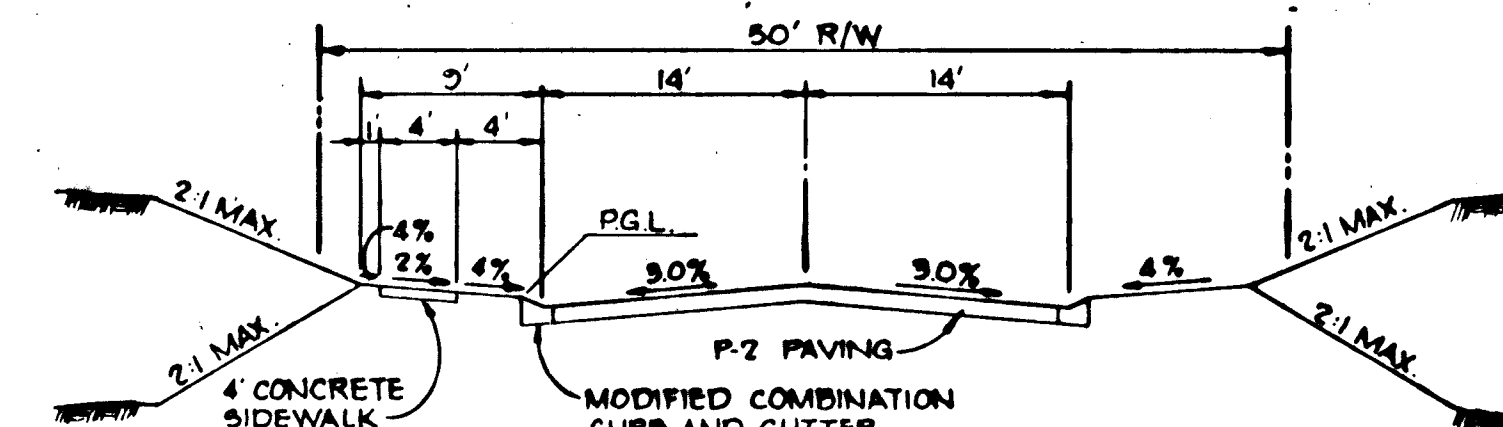
MODIFIED COMBINATION CURB AND GUTTER

* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OF THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT MATCH PAVEMENT CROSS. LOW SIDE CURB IS LOCATED ON THE LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN THE LOW SIDE CURB AND GUTTER.

CURB DETAILS
NO SCALE

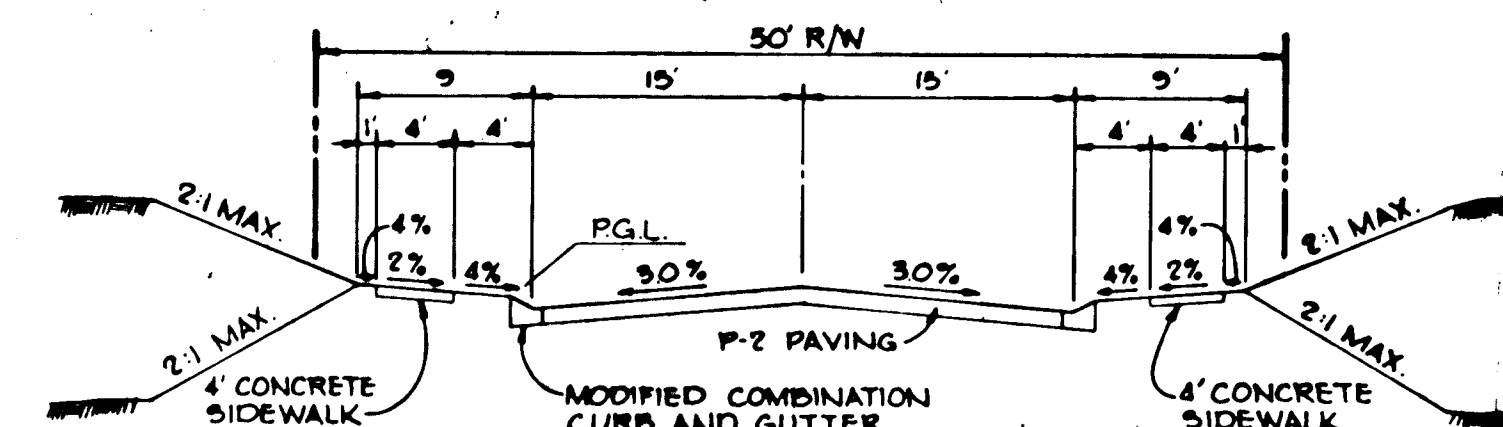


HANDICAP RAMP
NO SCALE



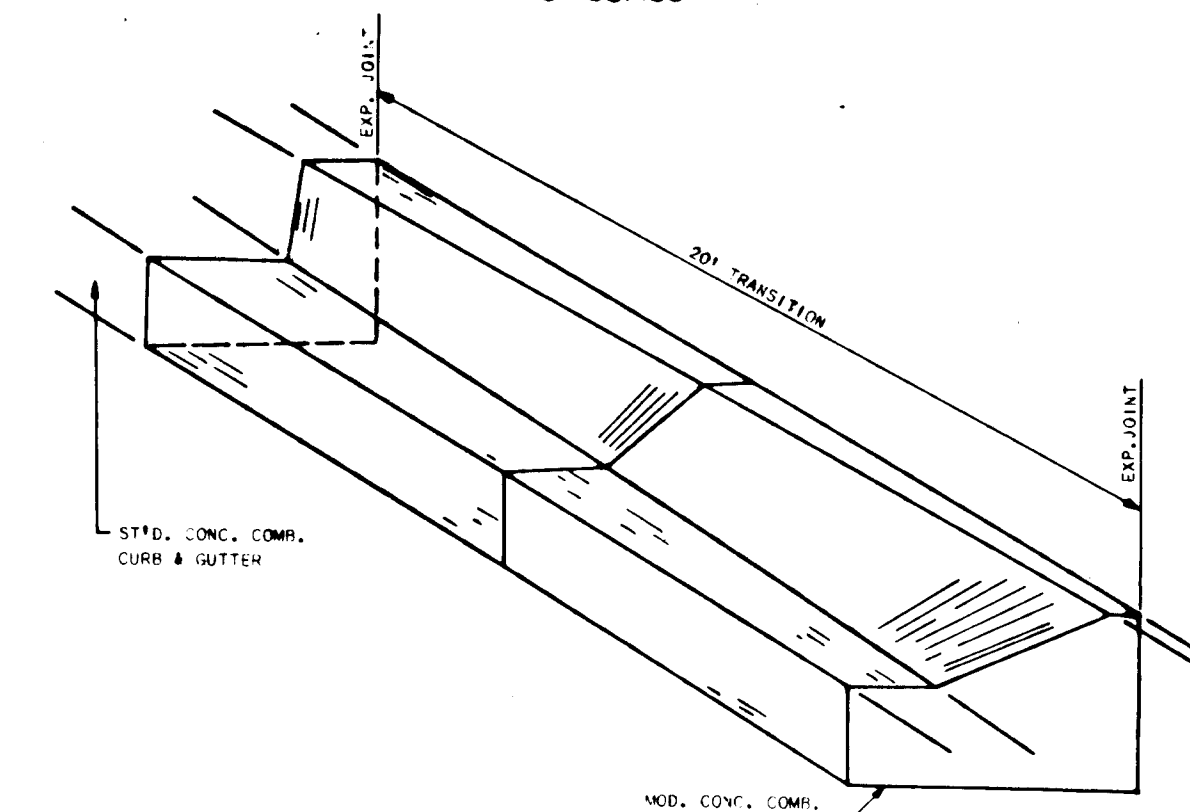
GLASSHOUSE COURT 0+39 ~ 1+71.00
TANFIELD COURT 0+39 ~ 2+52.00
ROPE MAKER DRIVE 0+44.19 ~ 10+20.76
CLASSIFICATION CUL-DE-SAC
DESIGN SPEED 30 MPH (TANFIELD COURT IS 25 MPH)
ZONED R-20

TYPICAL SECTION
NO SCALE



WHITE ROSE WAY 11+68.72 ~ 23+92.61
CLASSIFICATION LOCAL STREET
DESIGN SPEED 30 MPH
ZONED R-20

TYPICAL SECTION
NO SCALE



TYPICAL CURB TRANSITION DETAIL
NO SCALE

* A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253; AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William S. Reay 2-11-84
CHIEF, BUREAU OF ENGINEERING DATE

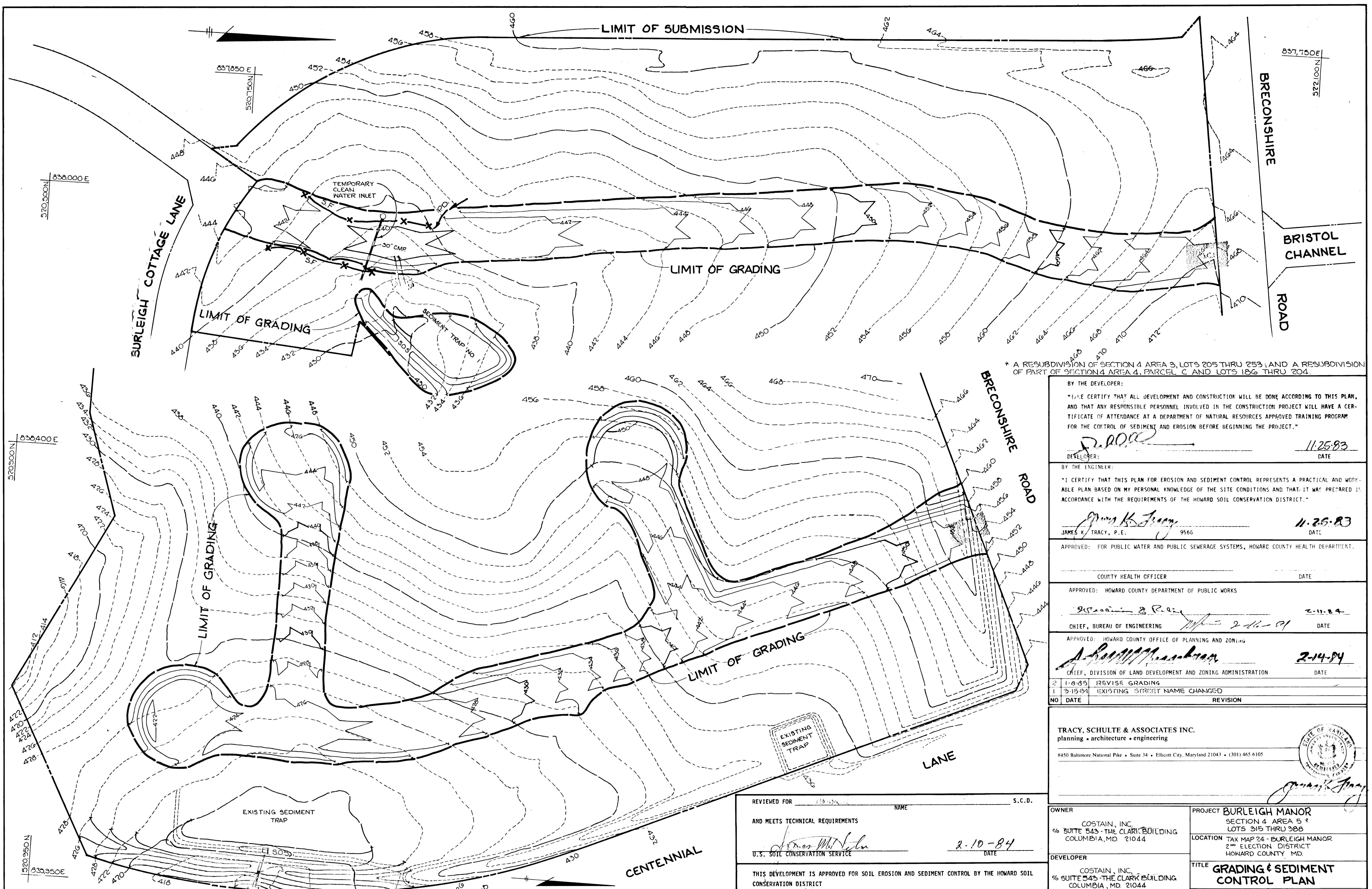
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John W. Muschman 2-14-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

| NO | DATE | REVISION |
|----|------|----------|
| | | |

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

OWNER: COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD. 21044
DEVELOPER: COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD. 21044
PROJECT: BURLEIGH MANOR SECTION 4 AREA 5 LOTS 315 THRU 388
LOCATION: BURLEIGH MANOR 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: DETAILS
DATE: 1-19-84 PROJECT NO: 1683 RSD
DES. JKT/JRS DRN: JLT SCALE: AS SHOWN DRAWING: 7 OF 9

#721



* A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253, AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

BY THE DEVELOPER:
 "I 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."
R. P. ... 11-25-83
 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."
James K. Tracy 11-26-83
 JAMES K. TRACY, P.E. 9566 DATE

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William S. ... 2-11-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
A. ... 2-14-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

| NO | DATE | REVISION |
|----|---------|------------------------------|
| 2 | 1-8-85 | REVISE GRADING |
| 1 | 9-15-84 | EXISTING STREET NAME CHANGED |

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

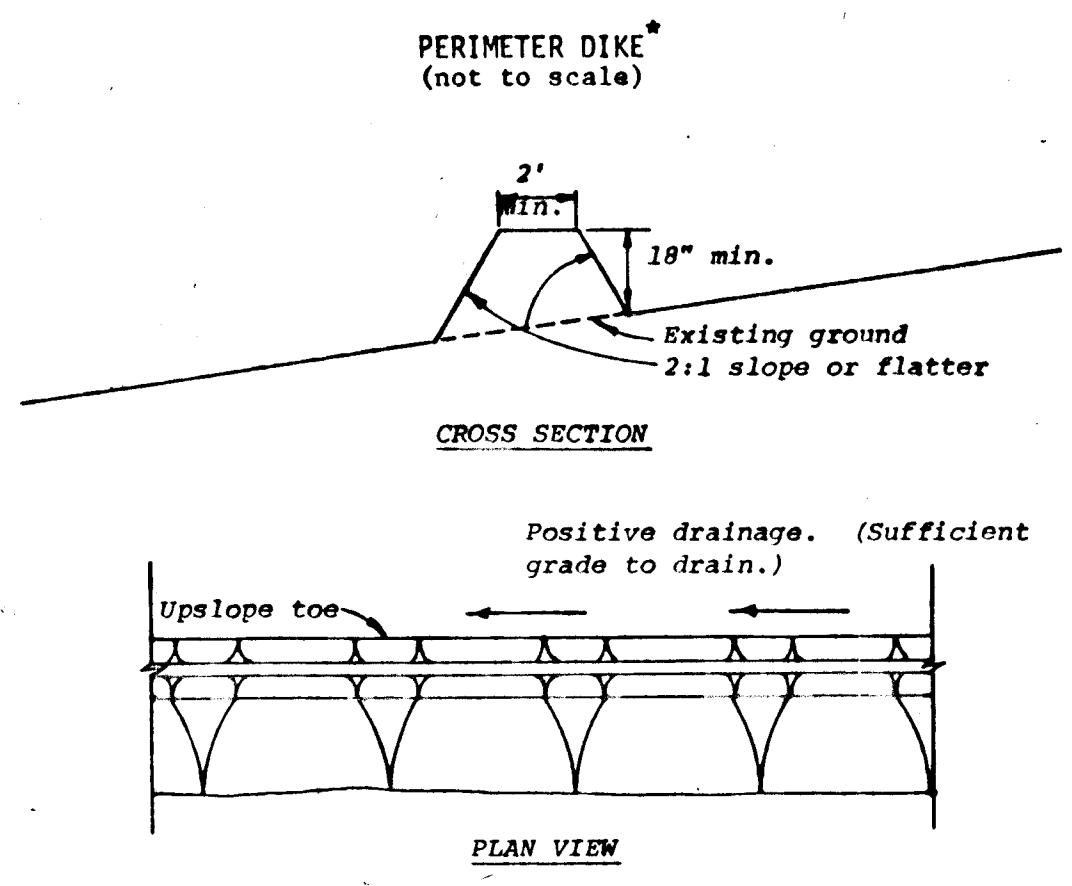


REVIEWED FOR: *...* NAME: _____ S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James M. ... 2-10-84
 U.S. SOIL CONSERVATION SERVICE DATE

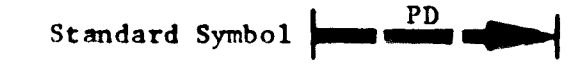
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
... 2-10-84
 HOWARD S.C.D. DATE

| | |
|---|--|
| OWNER COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD 21044 | PROJECT BURLEIGH MANOR SECTION 4 AREA 5 * LOTS 215 THRU 388 |
| DEVELOPER COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD. 21044 | LOCATION TAX MAP 24 - BURLEIGH MANOR 2 ND ELECTION DISTRICT HOWARD COUNTY, MD. |
| TITLE GRADING & SEDIMENT CONTROL PLAN | DATE 1-19-84 PROJECT NO 1683 RSD |
| DES. JRS/JKT DRN. JLT | SCALE 1"=50' DRAWING 3 OF 9 |

#721

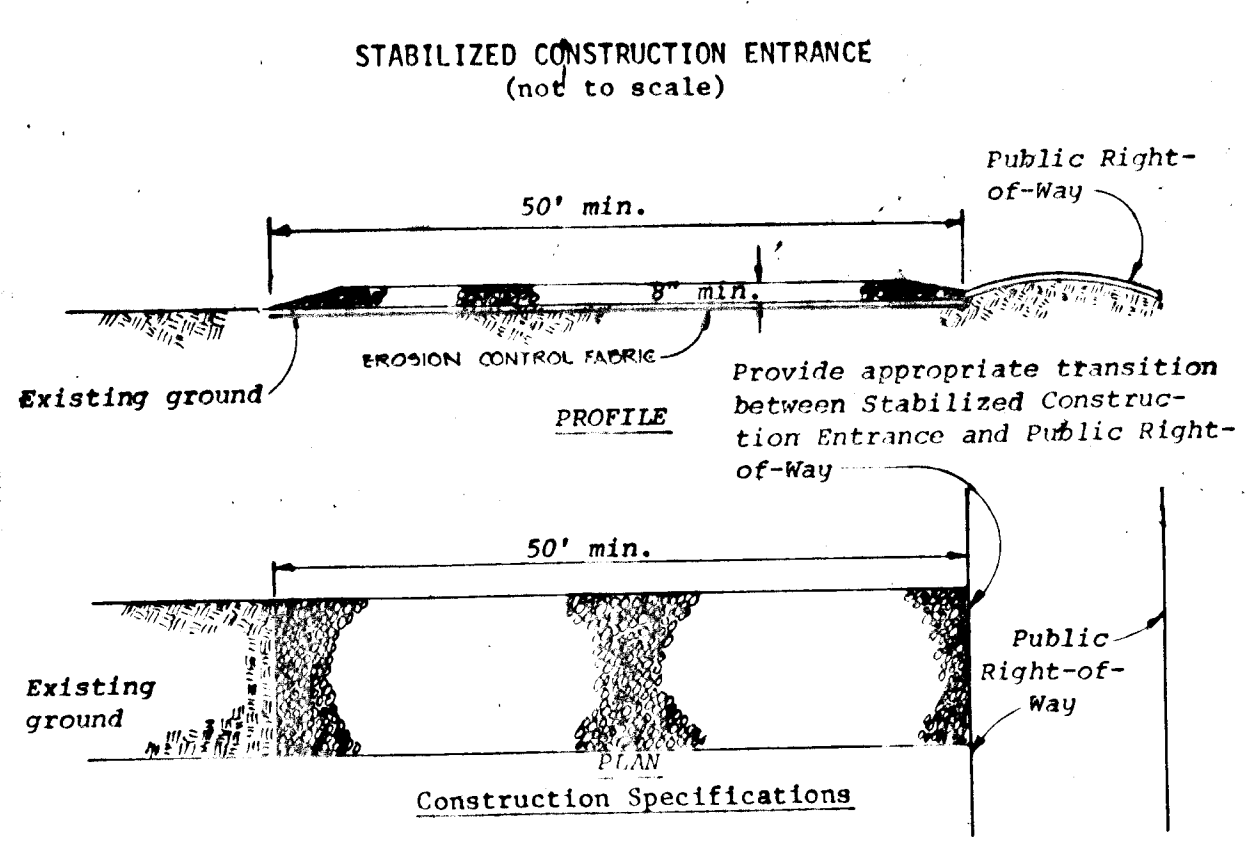


- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
 - B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as 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.

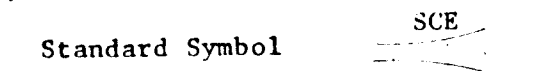


* Drainage area less than 5 acres

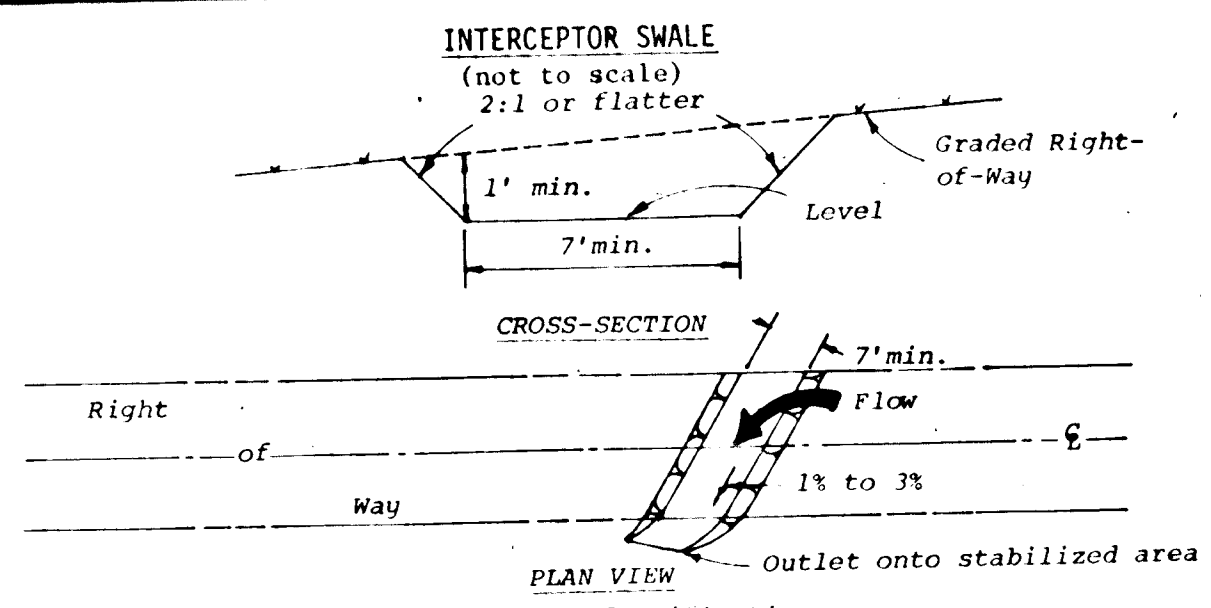
PERIMETER DIKE DETAIL
NO SCALE



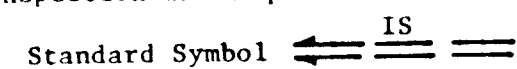
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing 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 rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.



STABILIZED CONST. ENTRANCE DETAIL



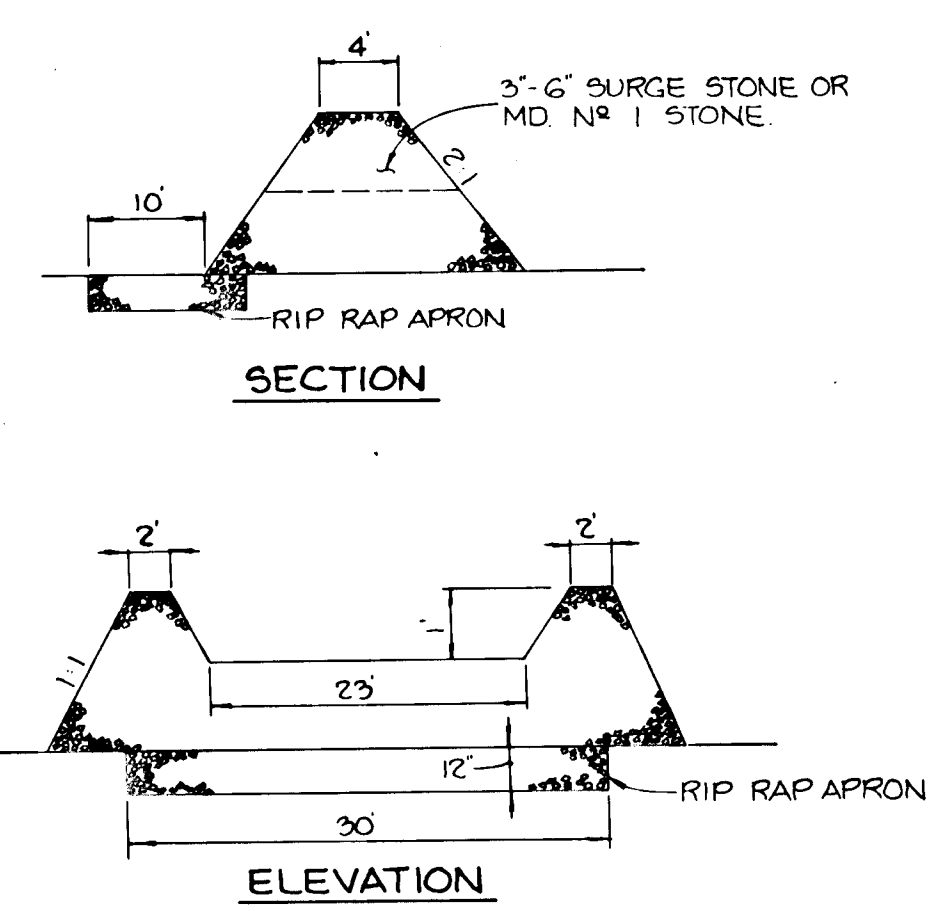
- Construction Specifications**
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be excavated or shipped to line, grade, and cross section as required to meet 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 in 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 erosion.
 - Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin.
 - The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
- Stabilization shall be: (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 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 of the channel a height of at least 8 inches vertically above the bottom.
- Periodic inspection and required maintenance shall be provided.



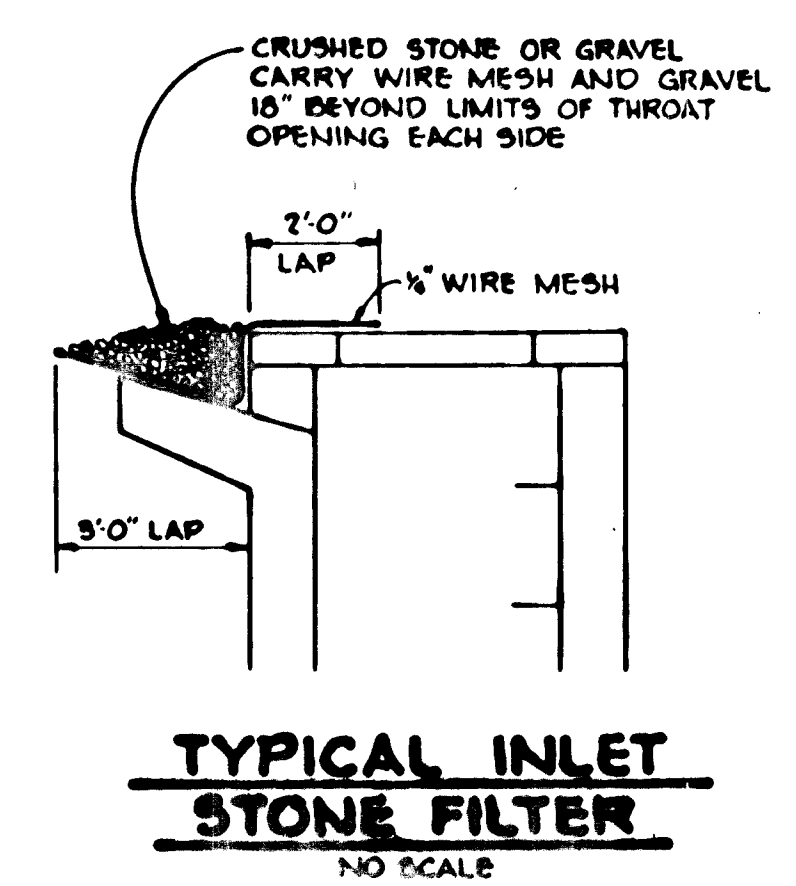
INTERCEPTOR SWALE DETAIL

SITE ANALYSIS

| | |
|------------------------|----------|
| IMPERVIOUS AREA | 367 Ac. |
| AREA TO BE REVEGETATED | 1.83 Ac. |
| UNDISTURBED AREA | 2393 Ac. |



STONE OUTLET STRUCTURE DETAIL



TYPICAL INLET STONE FILTER
NO SCALE

721

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 LOOSENESED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENESED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 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 SOIL AND SEED WITH CYCLONE SEEDER, DRILL, MULTIPAKER 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 CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

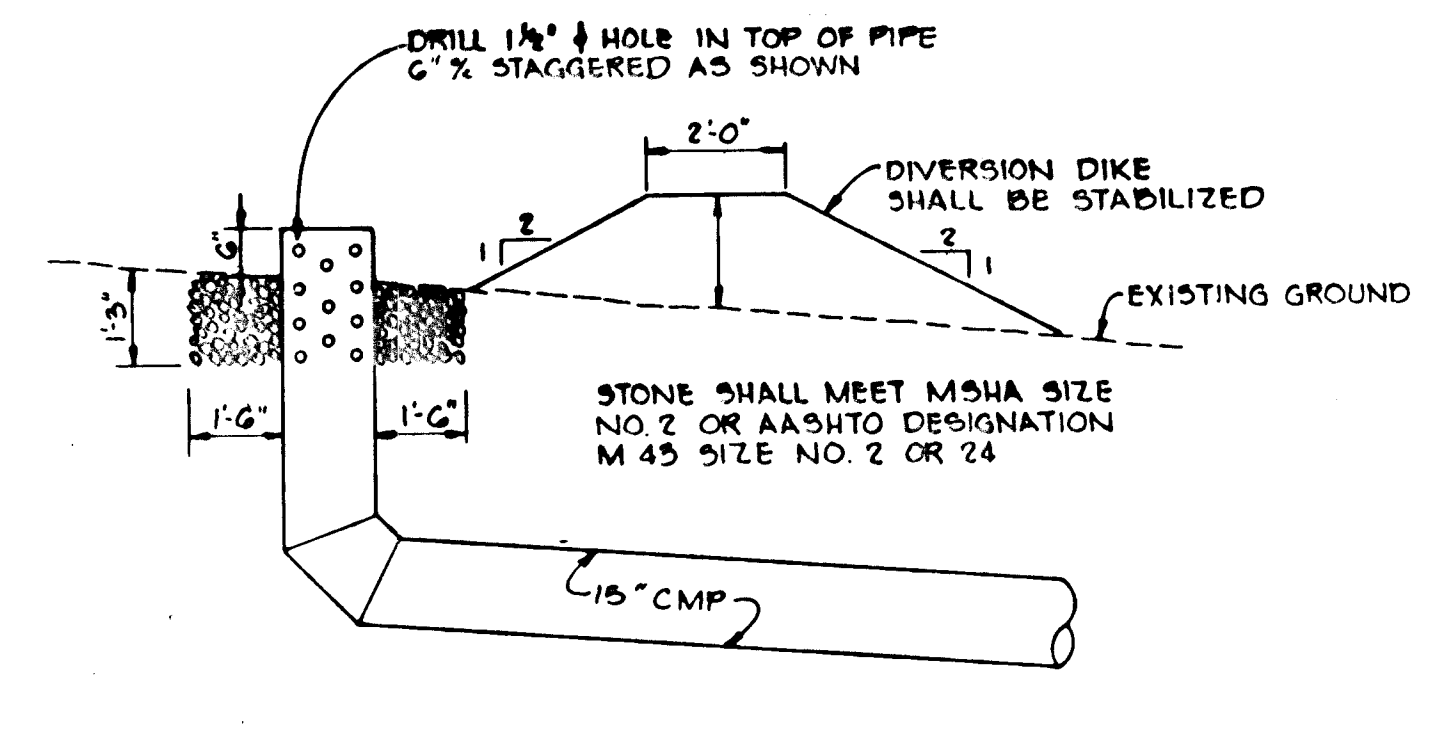
- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
 - APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE 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 A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES.
- CLEAR AND GRUB AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.
- INSTALL ALL SEDIMENT CONTROL DEVICES & STABILIZE IN ACCORDANCE WITH "TEMPORARY SEEDING NOTES".
- INSTALL PERMANENT INTERCEPTOR SWALE & STABILIZE IN ACCORDANCE WITH "PERMANENT SEEDING NOTES."
- COMPLETE CLEARING AND GRUBBING OPERATION.
- GRADE ROADWAYS.
- INSTALL UTILITIES (SEWER, STORMDRAIN & WATER).
- BLOCK ALL INLETS.
- COMPLETE ROADWAY AND APPURTENANCES AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH "PERMANENT SEEDING NOTES".
- UPON APPROVAL OF THE SOIL CONSERVATION DISTRICT, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH "PERMANENT SEEDING NOTES".

TRAP NO. 1

| | |
|--------------------|----------------------------|
| DRAINAGE AREA | 108 Ac |
| DISTURBED AREA | 32 Ac |
| STORAGE VOLUME | |
| REQUIRED | 19,400 CF |
| PROVIDED | 19,400 CF |
| CREST ELEVATION | 433.0 |
| BOTTOM ELEVATION | 430.0 |
| CLEANOUT ELEVATION | 431.5 |
| TRAP DIMENSIONS | 75' x 165' ± @ ELEV. 433.0 |



CLEAN WATER INLET AND DIVERSION DIKE
NO SCALE

A RESUBDIVISION OF SECTION 4 AREA 3, LOTS 205 THRU 253; AND A RESUBDIVISION OF PART OF SECTION 4 AREA 4, PARCEL C AND LOTS 186 THRU 204.

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."
J. Michael Coburn
DEVELOPER: J. MICHAEL COBURN
DATE: 11-25-83

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, P.E. 9566
DATE: 11-25-83

(REVIEWED FOR Howard NAME S.C.D.)
AND MEETS TECHNICAL REQUIREMENTS
James M. Nelson
U. S. SOIL CONSERVATION SERVICE
DATE: 2-10-84

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
W. J. Williams
HOWARD S.C.D.
DATE: 12-10-84

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DECORATION B. P. ...
DATE: 2-17-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Asst. Dir. ...
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
DATE: 2-14-84

| NO | DATE | REVISION |
|----|------|----------|
| | | |

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

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| OWNER COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD 21044 | PROJECT BURLEIGH MANOR SECTION 4 AREA 5 LOTS 315 THRU 388 |
| DEVELOPER COSTAIN, INC. % SUITE 543 - THE CLARK BUILDING COLUMBIA, MD 21044 | LOCATION TAX MAP 24 BURLEIGH MANOR 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| DATE: 1-19-84 | PROJECT NO: 1683 RSD |
| DES: JKT/JRS | DRN: KAM |
| SCALE: AS SHOWN | DRAWING: 9 OF 9 |

1-84-87 JANUARY 31, 1984