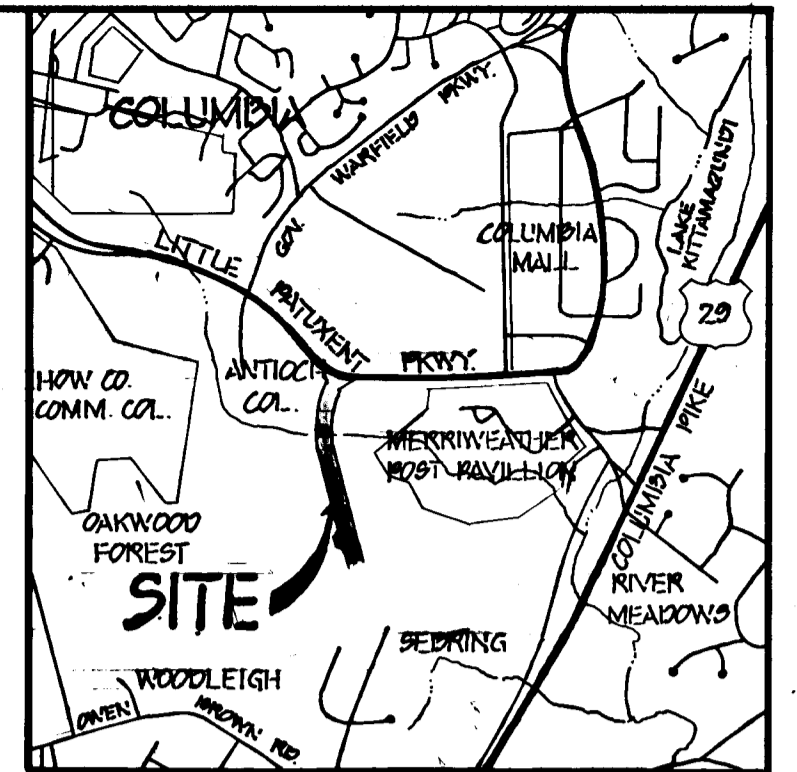


BROKEN LAND PARKWAY WEST

5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

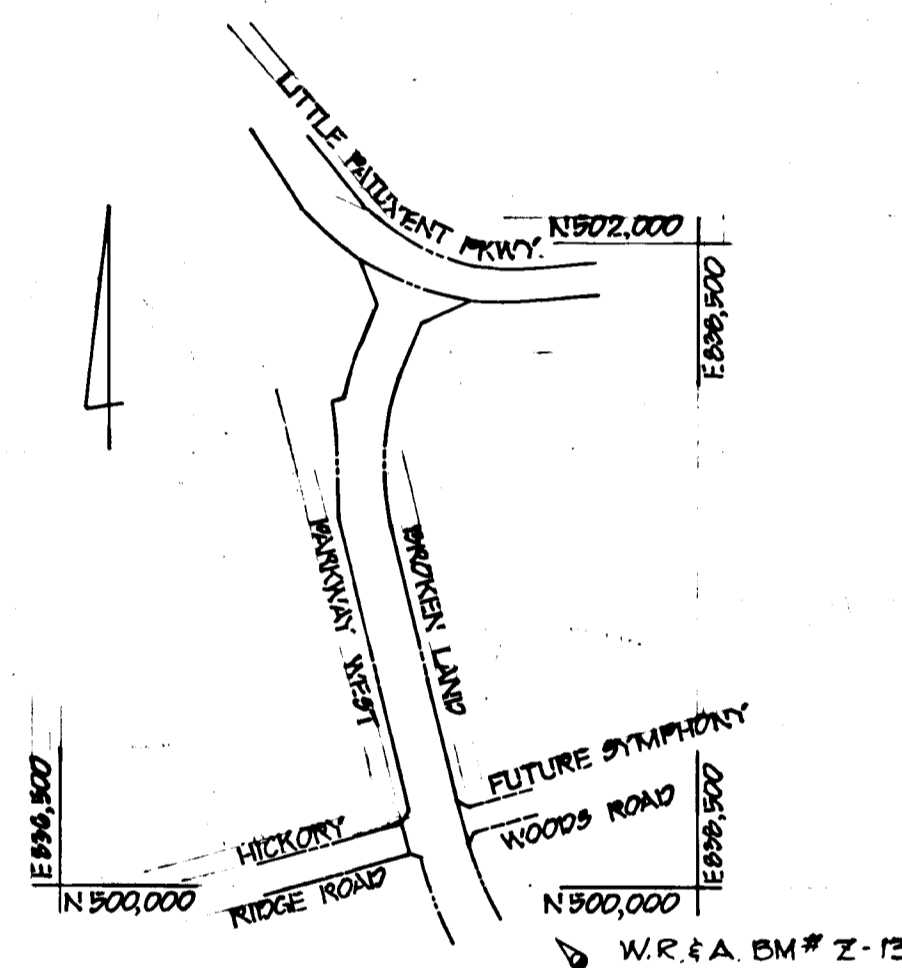


VICINITY MAP

SCALE: 1" = 2000'

BENCH MARKS

- W.R. & A. B.M. #2-12 ELEV. 350.65
- R.R. SPIKE BASE 16" OAK @ TOP STREAM BANK 20' EAST
- P.L. #Z-621
- W.R. & A. B.M. #2-13 ELEV. 340.93
- R.R. SPIKE BASE 15" BEECH 10' LEFT OF P.L. #Z-622
- X-CUT IN BOLT, G&E POLE #415249 ELEV. 415.89
- X-CUT IN BOLT, G&E POLE #415248 ELEV. 385.06



W.R. & A. B.M. #Z-12

PLAN

SCALE: 1" = 600'

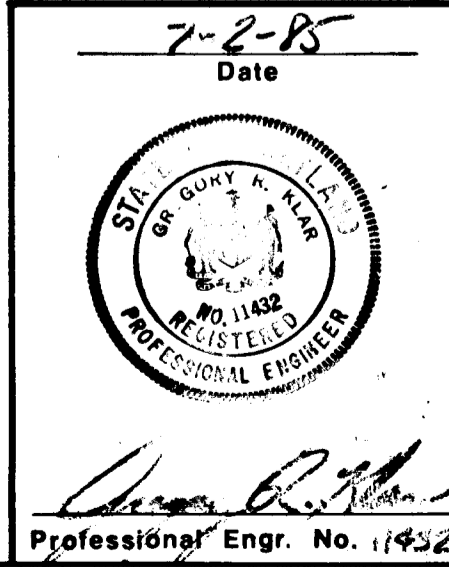
AS BUILT SURVEY
CERTIFIED BY
G SCDT SHANE BERGER
REG. L.S.
No. 245
8/25/86

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, "STANDARD DETAILS AND SPECIFICATIONS FOR 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 "MISS UTILITY" PHONE (1) 539-0100 AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWING(S).
5. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 REVISED EDITION.
6. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARDS. 50 MPH.
7. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
8. ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
9. 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.
10. BRICK BULKHEADS SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
11. CONTRACTOR TO RESTORE ALL EXISTING PAVING, SIDEWALKS OR LAWNS AFFECTED BY THE CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
12. REFER TO APPROVED F-85-131, FOR SEDIMENT CONTROL DEVICES THAT ARE TO BE MAINTAINED DURING CONSTRUCTION OF THIS CONTRACT. SEE DRAWINGS 5 AND 6 OF 6 FOR ANY REVISIONS REQUIRED BY THIS WORK.
13. ALL STORM DRAIN BEDDING TO BE CLASS C EXCEPT WHERE OTHERWISE NOTED.
14. STORMWATER MANAGEMENT FOR THIS PROJECT PROVIDED BY FACILITY CONSTRUCTED WITH (F-85-131).
15. STREET TREES (??) THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING AND ZONING.

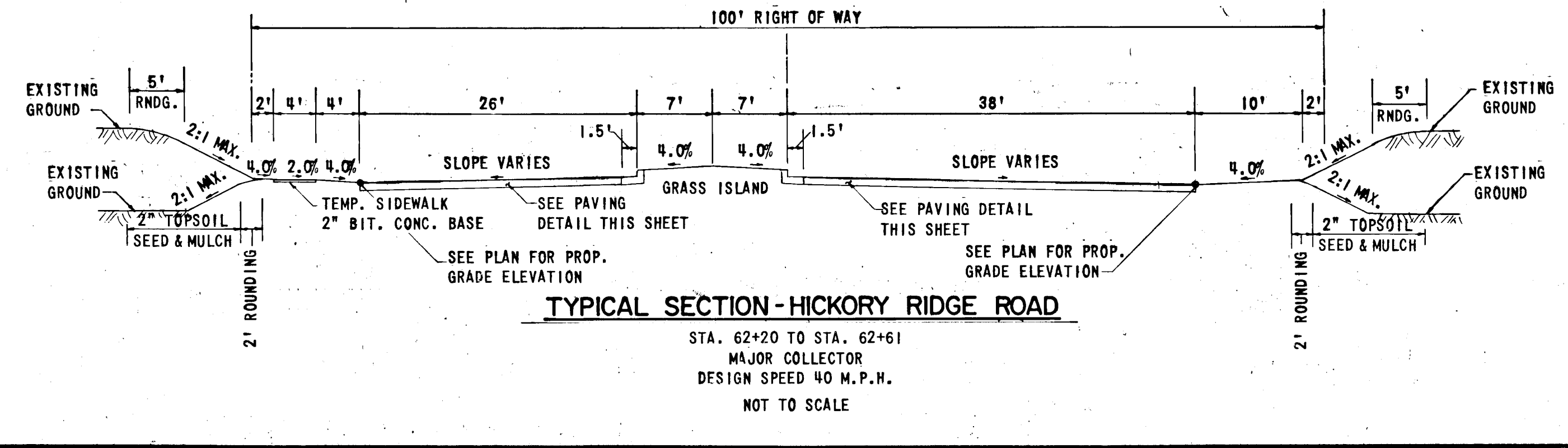
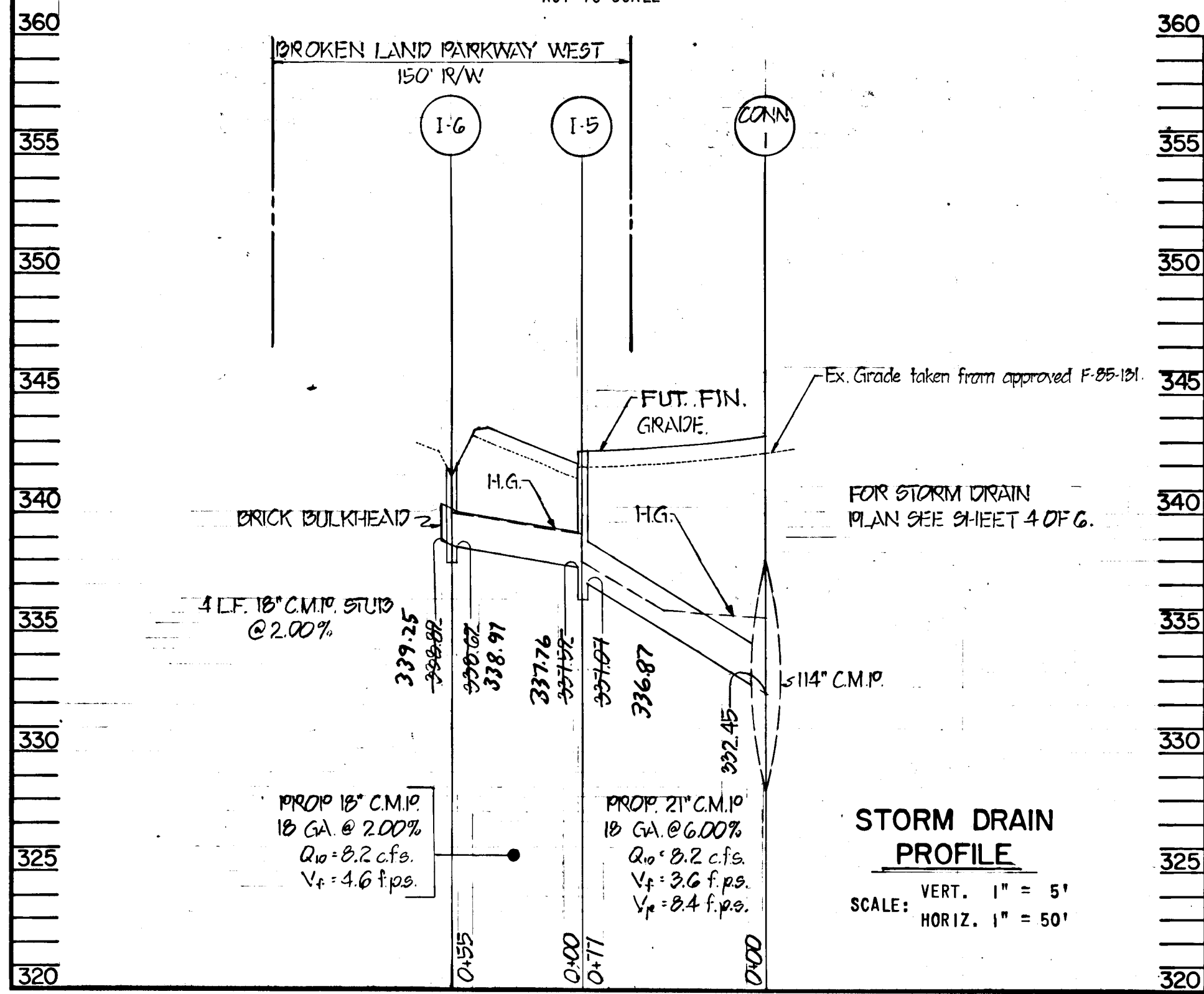
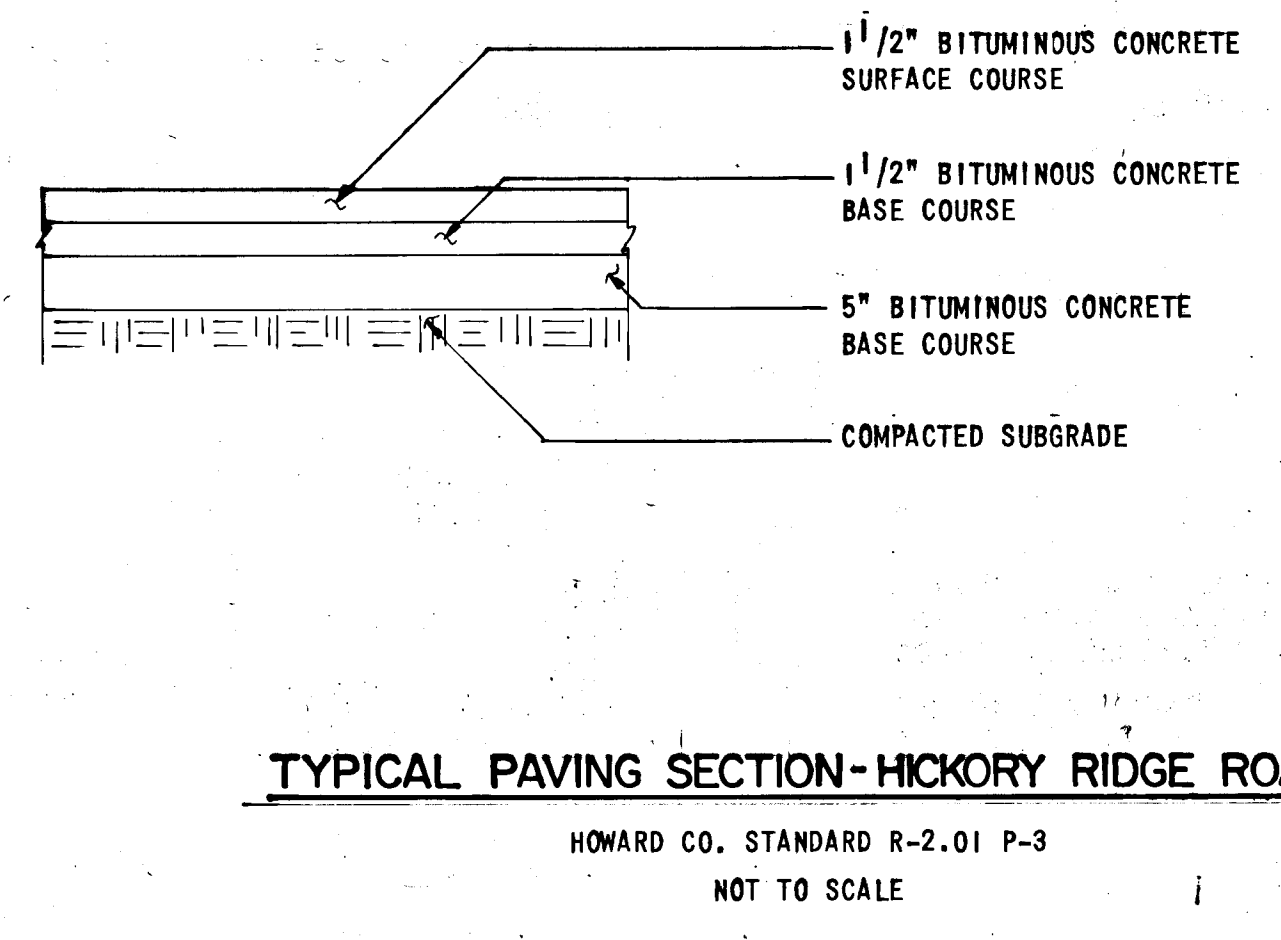
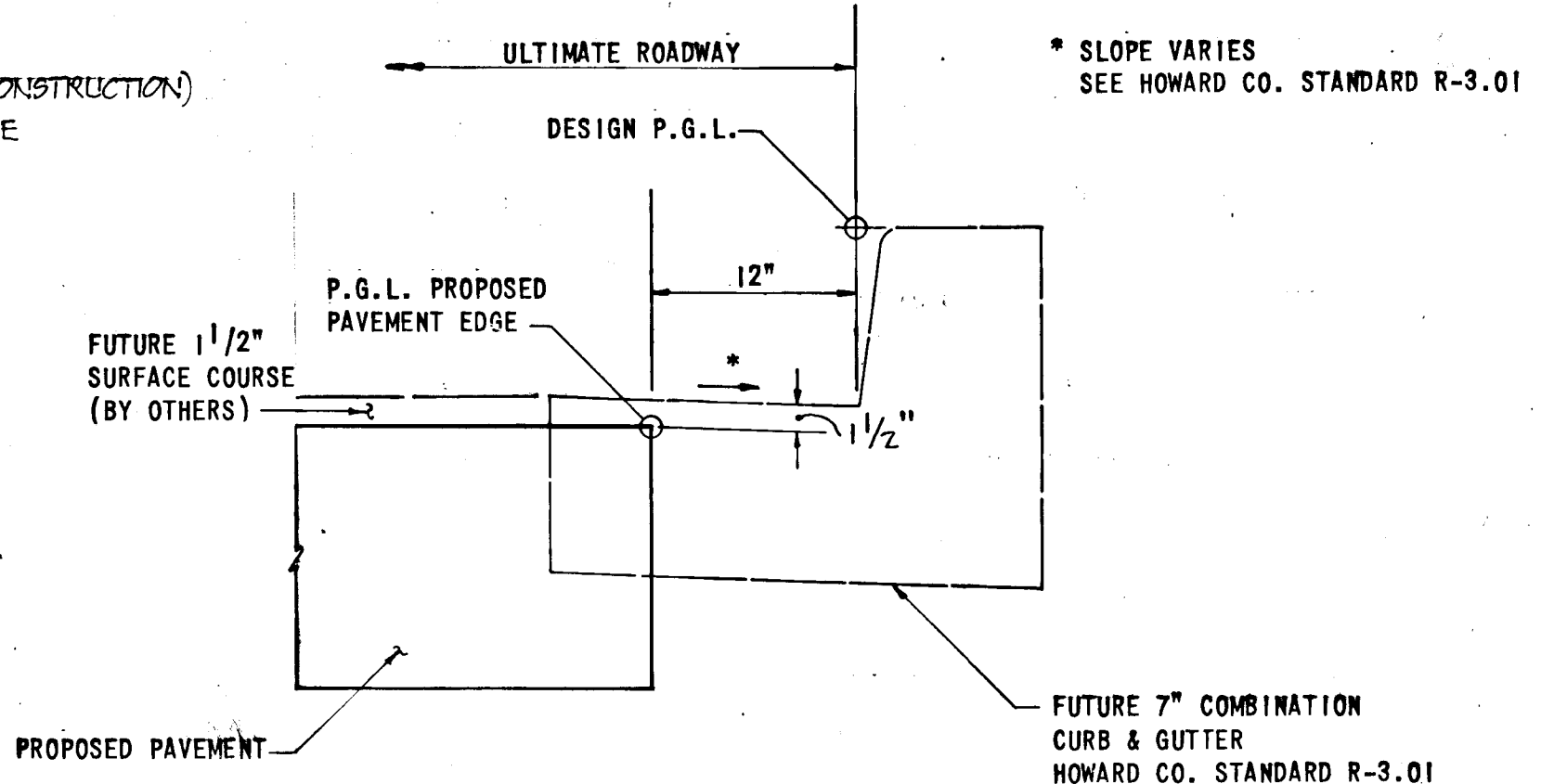
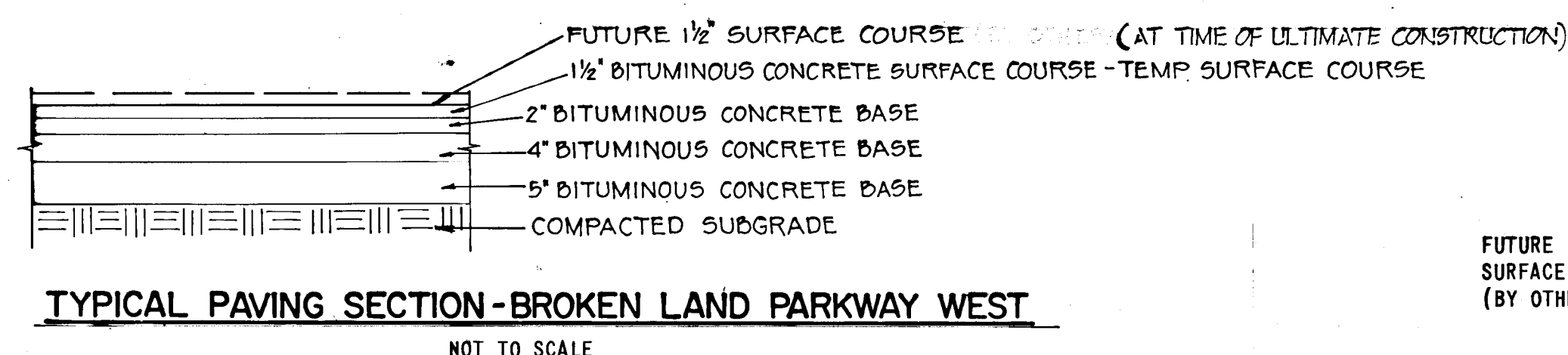
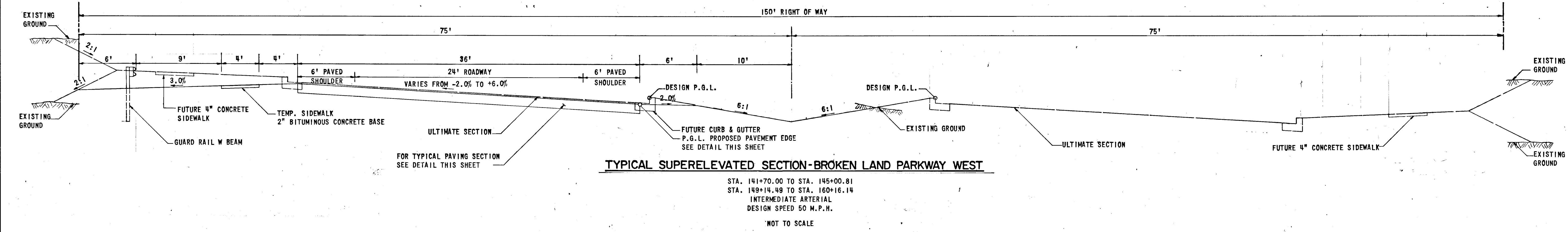
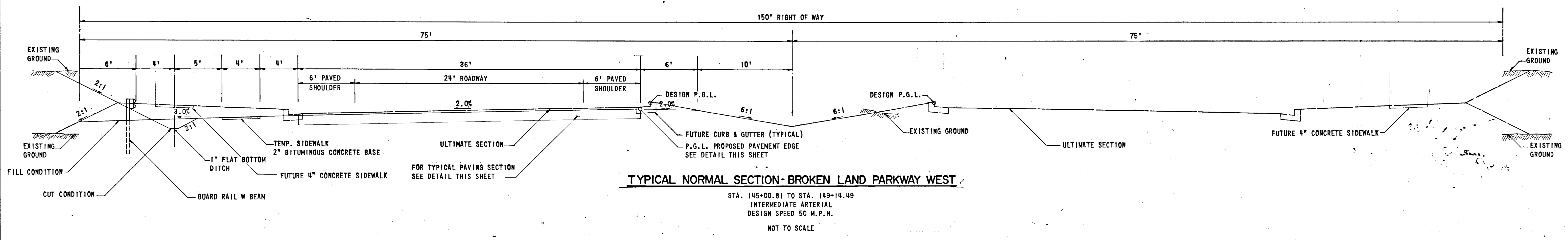
NO.	DESCRIPTION
1	TITLE
2	TYPICAL SECTIONS, MISCELLANEOUS DETAILS AND STORM DRAIN PROFILE
3	ROADWAY PLAN AND PROFILE
4	ROADWAY PLAN AND PROFILE
5	GRADING AND SEDIMENT CONTROL PLAN
6	DRAINAGE AREA MAP
6	SEDIMENT CONTROL DETAILS

APPROVED: HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS		
[Signature]		10-4-85
CHIEF, BUREAU OF ENGINEERING		DATE
DEPARTMENT OF PLANNING AND ZONING		
[Signature]		9-26-85
CHIEF, DIV. OF LAND DEVEL. & ZONING ADM.		DATE
Date	No	Revision Description
OWNER AND DEVELOPER		
THE HOWARD RESEARCH & DEVELOPMENT CORP.		
THE ROUSE COMPANY		
COLUMBIA, MARYLAND		
CENTURY ENGINEERING, INC.		
CONSULTING ENGINEERS - PLANNERS		
TOWSON, MARYLAND 21204		
AREA		
BROKEN LAND PARKWAY WEST		
PARCELS 49 & 81		TAX MAPS 35 & 36
5TH ELECTION DISTRICT		HOWARD COUNTY, MD.
TITLE		
TITLE SHEET		
Des By	Scale AS SHOWN	Proj No 85-0023
Drn By A.E.B.	Date JUNE 85	Drawing No.
Chk By	Approved	OF 6

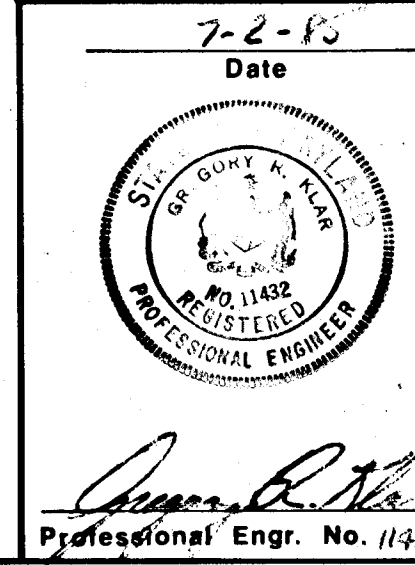


4-27-89 AS-BUILT

F-86-10



AS-BUILT SURVEY
 CERTIFIED BY
 SLOTT SHANE BERGER
 REG. L.S.
 NO. 245
 8/25/86



APPROVED: HOWARD COUNTY, DEPT. OF PUBLIC WORKS
 9/25/85
 CHIEF, BUREAU OF ENGINEERING
 DEPARTMENT OF PLANNING AND ZONING
 Slott Shane Berger
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.
 DATE

Date	No.	Revision Description

Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA: BROKEN LAND PARKWAY WEST
 PARCELS 49 & 81 TAX MAPS 35 & 36
 5TH ELECTION DISTRICT HOWARD COUNTY, MD.

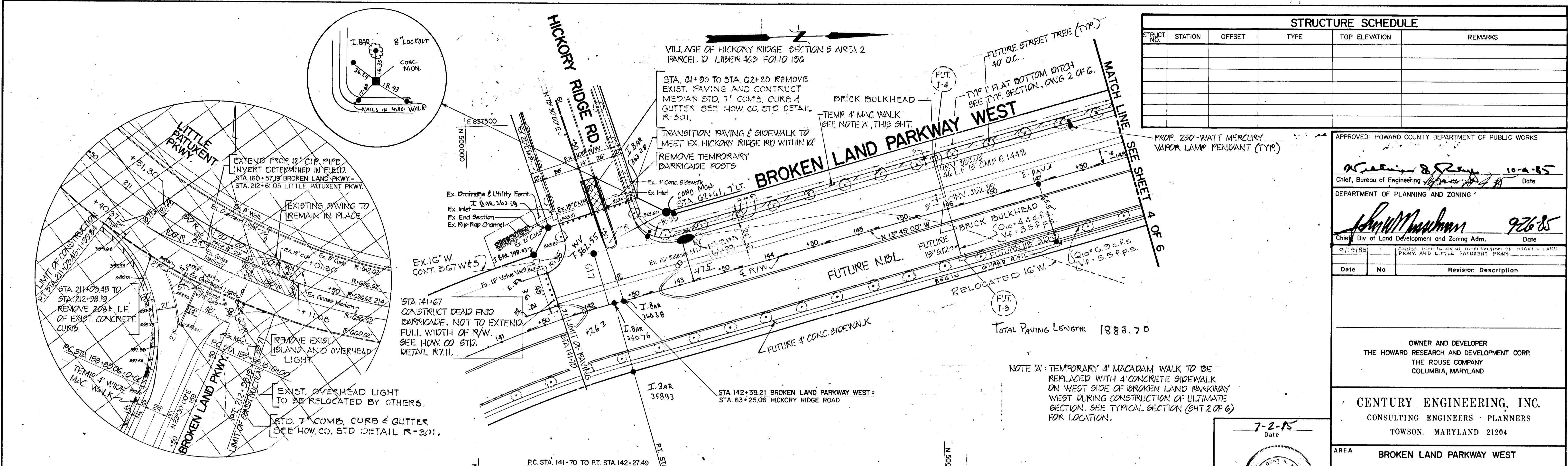
TITLE: TYPICAL SECTIONS, MISCELLANEOUS DETAILS AND STORM DRAIN PROFILE

Des By RJD & RFM	Scale AS SHOWN	Proj No. 85-0023
Drn By J.A.G. & AFB	Date 6-11-85	Drawing No. 2 OF 6
Chk By G.R.K.	Approved	

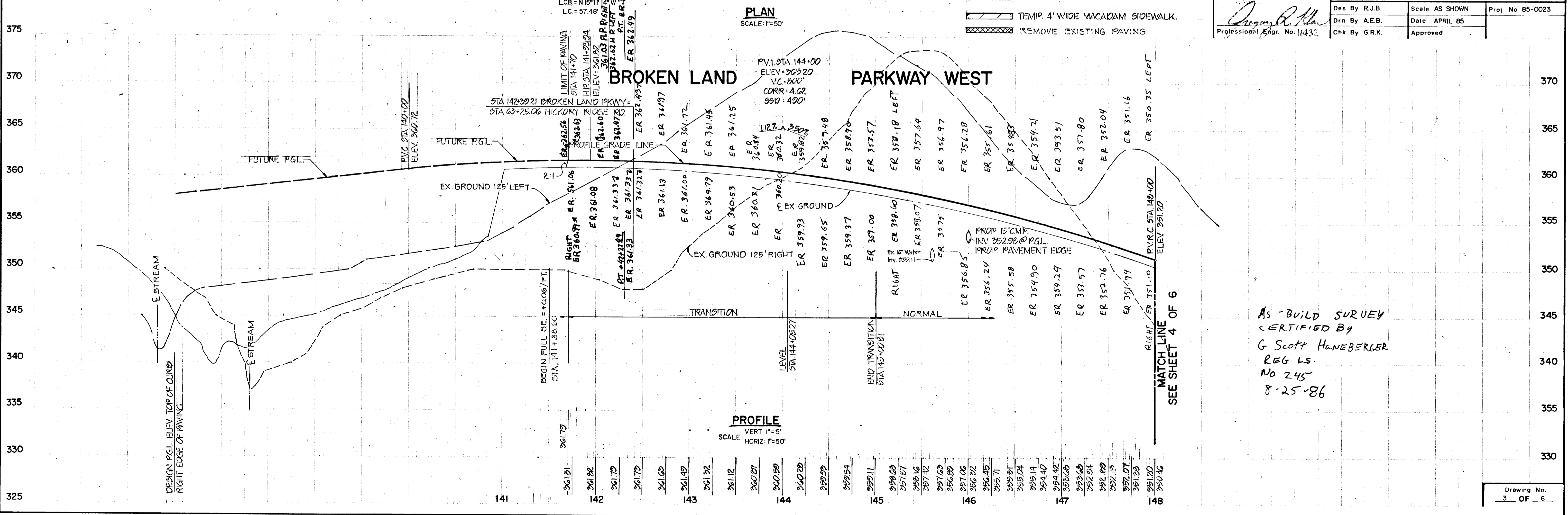
PLAN	DATE
SURVEYED	BY
ALIGNMENT CHECKED	BY
RT. OF WAY CHECKED	BY
NOTE BOOK NO.	

PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	BY
B.M. NOTED	BY
STRUCTURE NOTATIONS CHECKED	BY
NOTE BOOK NO.	

BRUNING 44-132 28586



INTERSECTION PLAN 'A'



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

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Howard County Seal 10-2-85
 Chief, Bureau of Engineering
 DEPARTMENT OF PLANNING AND ZONING

John W. Moshman 9/26/85
 Chief, Div. of Land Development and Zoning Adm.
 Date

Date	No.	Revision Description
9/19/85	1	Added turn lanes at intersection of Broken Land Pkwy. and Little Patuxent Pkwy.

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY
 COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA: BROKEN LAND PARKWAY WEST
 PARCELS 49 & 51
 5TH ELECTION DISTRICT

TITLE: ROADWAY PLAN AND PROFILE

Des. By R.J.B.	Scale AS SHOWN	Proj. No. 85-0023
Drn. By A.E.B.	Date APRIL 85	
Chk. By G.R.K.	Approved	

7-2-85
 Date

Professional Engr. No. 11432

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
STRUCTURE NOTATIONS CHG	
NOTE BOOK NO.	

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
1-G	152+10.45	@ 4'	K	341.22	HOW. CO. STD. 30412
1-5	152+10.45	53 RT.	A-10	342.43	HOW. CO. STD. 30412
FOR STORM DRAIN PROFILE SEE SHEET 2 OF 6.					

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 12-4-85
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING

[Signature] 92685
 Chief, Div. of Land Development and Zoning Adm. Date

5/19/85
 7/10/86
 Date No Revision Description

OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY
 COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

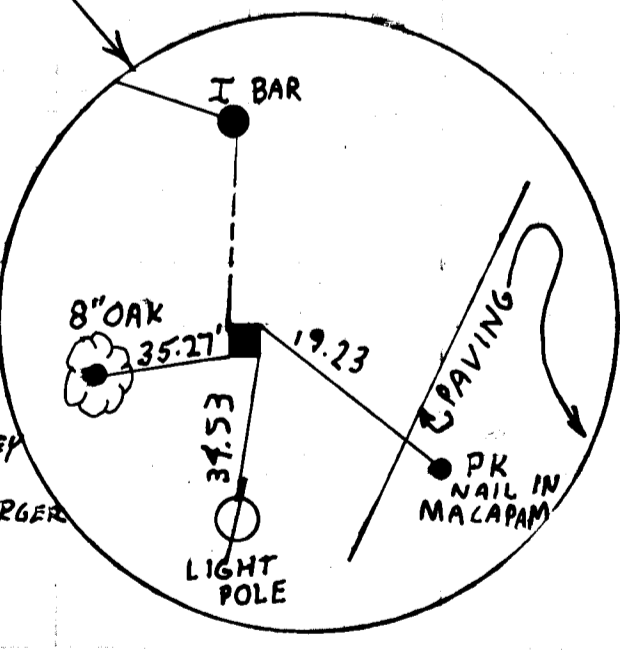
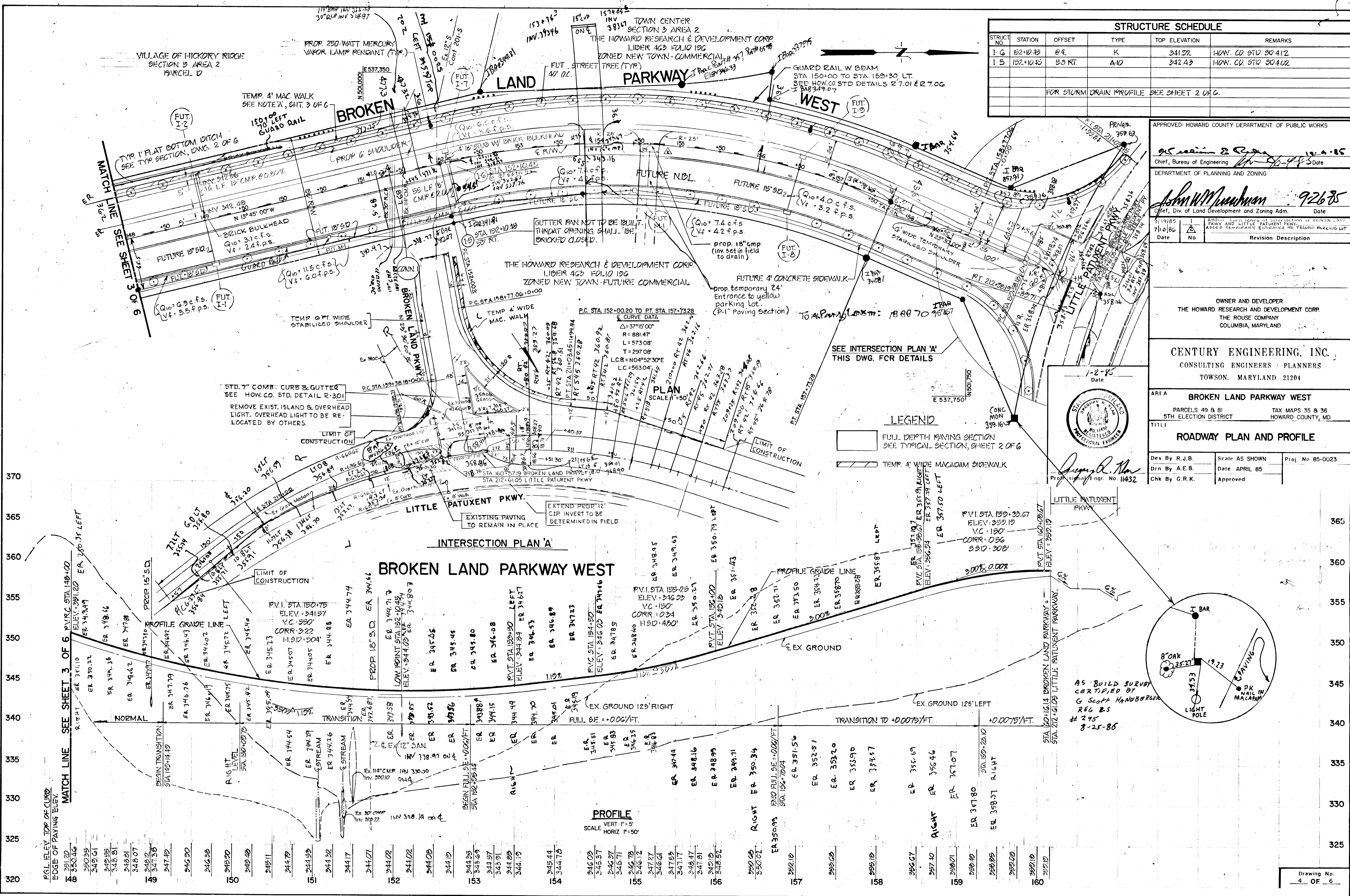
AREA
 BROKEN LAND PARKWAY WEST
 PARCELS 49 & 81 TAX MAPS 35 & 36
 5TH ELECTION DISTRICT HOWARD COUNTY, MD.

TITLE
 ROADWAY PLAN AND PROFILE

Des By R.J.B. Scale AS SHOWN Proj No 85-0023
 Dwn By A.E.B. Date APRIL 85
 Chk By G.R.K. Approved



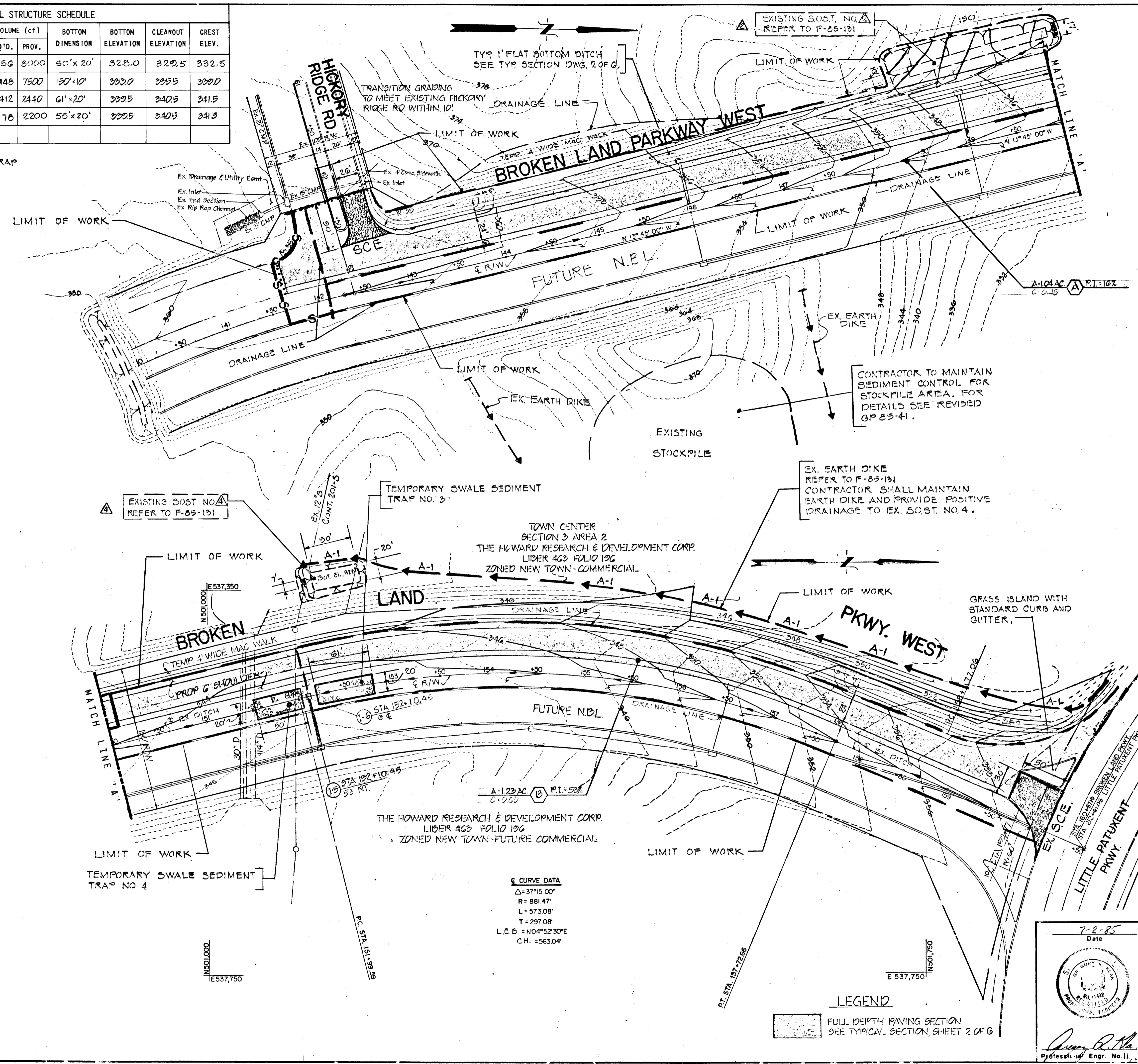
[Signature]
 Professional Engr. No. 11432



AS-BUILT SURVEY
 CERTIFIED BY
 G. Scott HANDBERG
 REG. E.S.
 #245
 8-25-86

SEDIMENT CONTROL STRUCTURE SCHEDULE										
TRAP NO.	TRAP	TRAP DEPTH	DRAINAGE AREA	DISTURBED AREA	VOLUME (cf)		BOTTOM DIMENSION	BOTTOM ELEVATION	CLEANOUT ELEVATION	CREST ELEV.
					REQ'D.	PROV.				
1	S.O.S.T.	3.0'	0.87 AC.	0.56 AC.	1356	3000	50' x 20'	328.0	329.5	332.5
2	S.O.S.T.	5.0'	1.26 AC.	.90 AC.	2448	7500	150' x 10'	333.0	335.5	339.0
3	S.O.S.T.	2.0'	1.34 AC.	1.23 AC.	2412	2440	61' x 20'	339.5	340.5	341.5
4	S.O.S.T.	2.0'	1.21 AC.	1.04 AC.	2176	2200	55' x 20'	339.5	340.5	341.5

△ DENOTES EXISTING SEDIMENT TRAP



DEPARTMENT OF PLANNING AND ZONING:

John W. Muschman 9-26-85
 CHIEF, DIV. OF LAND DEVEL. & ZONING ADMIN. DATE

APPROVED: HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS

Robert E. Perry 10-4-85
 CHIEF, BUREAU OF ENGINEERING DATE

CERTIFICATION BY THE DEVELOPER:
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John H. N. G. 7-2-85
 Signature of Developer Date

CERTIFICATION 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.

Gregory R. Klaw 7-2-85
 Signature of Engineer Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

James McHugh 9-26-85
 U.S. Soil Conservation Service Date

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:
Stephen L. Huber 9-26-85
 Howard Soil Conservation District Date

Date	No	Revision Description
9/19/85	1	Added LINDER LINES at Intersection of Broken Land Parkway and Little Patuxent Parkway.

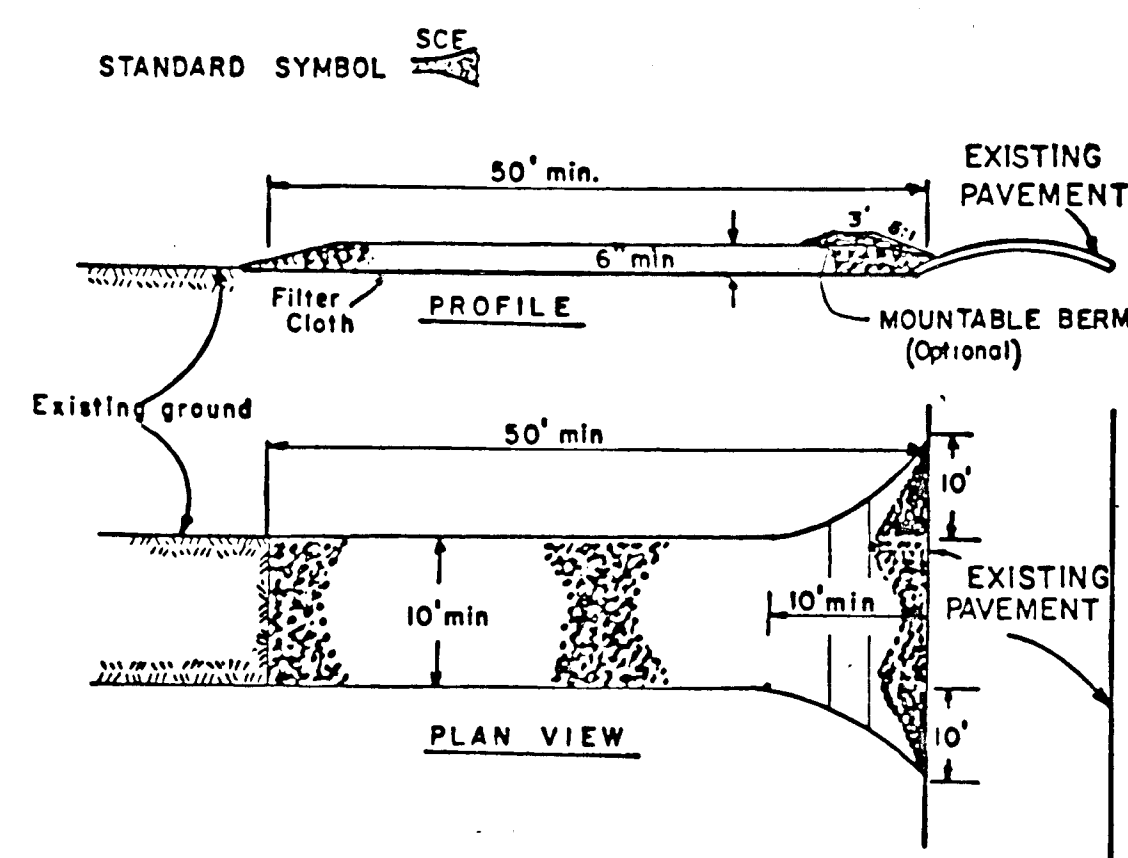
OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY
 COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA: BROKEN LAND PARKWAY WEST
 PARCELS 49 & 81 TAX MAPS 35 & 36
 5TH ELECTION DISTRICT HOWARD COUNTY, MD.

TITLE: GRADING AND SEDIMENT CONTROL PLAN; DRAINAGE AREA MAP

Des By R.J.B.	Scale 1" = 50'	Fj No 85-0023
Drn By A.E.B.	Date JUNE 85	Drawing No.
Chk By G.R.K.	Approved	5 OF 6



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
7. 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.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NO SCALE

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

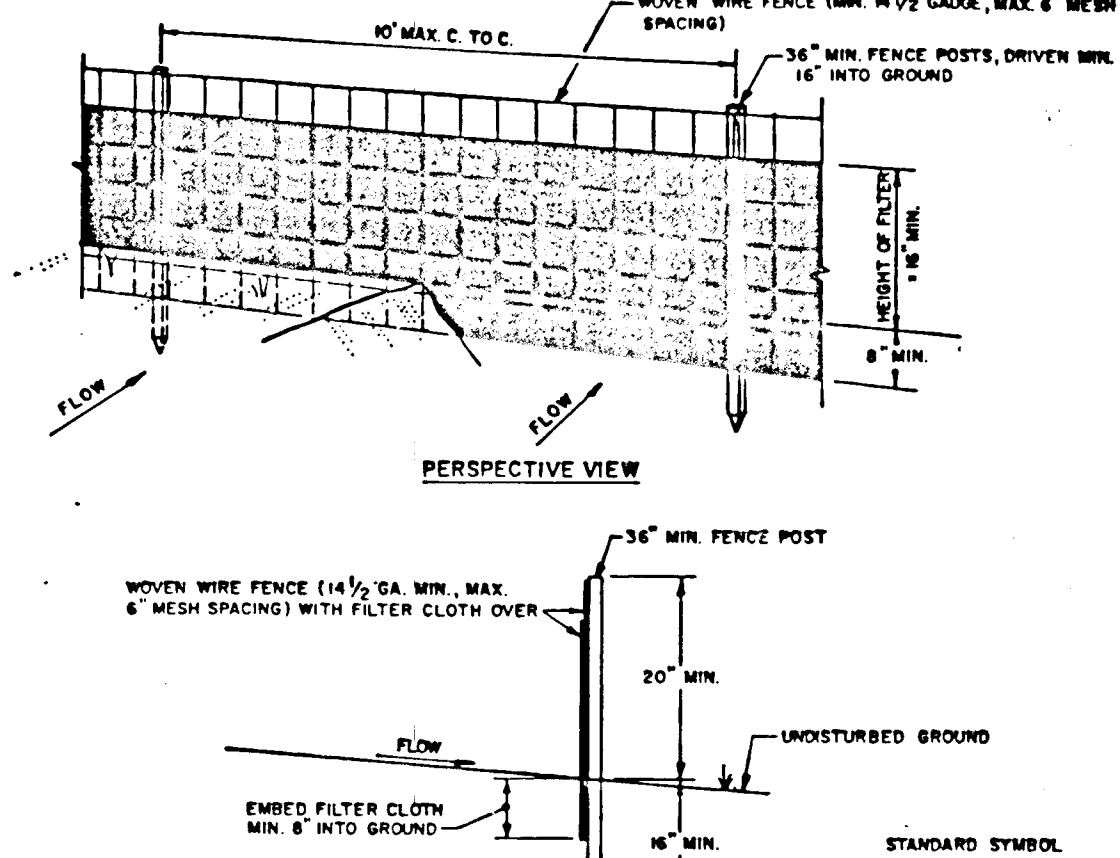
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW 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 LBS/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 LBS/1000 SQ.FT.) OF WEEPING 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 SOD. 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 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALS. PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RE-SEEDINGS.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 1 1/2 GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, MIRAFIL 100, STABIL-LINKA TILAN OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOPAD, DIVIROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL

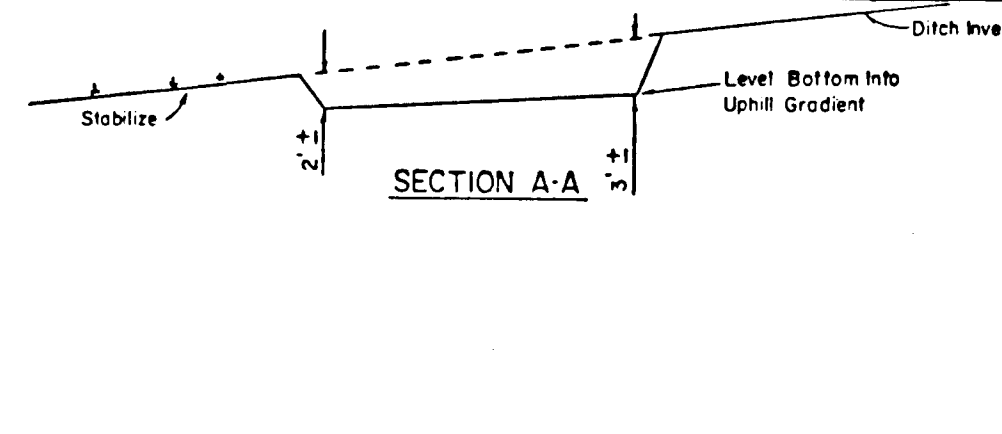
NO SCALE

SEDIMENT CONTROL NOTES

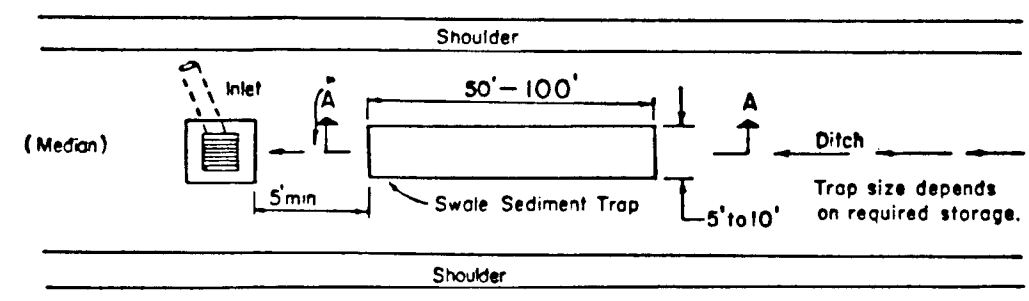
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. 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.
6. SITE ANALYSIS:

TOTAL AREA OF SITE	5.15 ACRES
AREA DISTURBED	3.75 ACRES
AREA TO BE ROOFED OR PAVED	1.00 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.12 ACRES
TOTAL CUT	2650 CU.YDS.
TOTAL FILL	3325 CU.YDS.

 OFFSITE WASTE/BORROW AREA LOCATION: BROKEN LAND PKWY, STA. 149+50.
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.



SWALE SEDIMENT TRAP



CONSTRUCTION SPECIFICATION FOR ST-IV

1. The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum storage necessary (1800 cubic feet of storage for each acre of drainage area.)
2. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and area stabilized when the contributory drainage area has been properly stabilized.
6. The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.

SWALE SEDIMENT TRAP DETAIL

NO SCALE

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. NOTIFY THE DPM SEDIMENT CONTROL INSPECTOR FOR HOWARD COUNTY 48 HOURS PRIOR TO START OF ANY CONSTRUCTION.
3. MAINTAIN EXIST. S.C.E. # STA. 160+20 PROPOSED BROKEN LAND PARKWAY.
4. INSTALL S.C.E. # STA. 62+25 HICKORY RIDGE ROAD. (EST. 3 DAYS)
5. CLEAR AND GRUB AREAS NECESSARY FOR INSTALLATION OF PROPOSED INLETS, PIPES AND SWALE SEDIMENT TRAPS NO. 3 AND NO. 4. (EST. 2 DAYS)
6. INSTALL SILT FENCE DOWNSLOPE OF DISTURBED AREA FOR PIPE AND INLET CONSTRUCTION. INSTALL PIPE AND CONSTRUCT INLETS. (EST. 3 DAYS)
7. AREAS DESIGNATED AS LIMIT OF WORK (AND STOCKPILE AREA) SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED OFF SITE. (EST. 1 DAY)
8. MAINTAIN SEDIMENT CONTROL DEVICES AND PRACTICES FOR EXISTING STOCKPILE LOCATED AT RT. STA. 145+ BROKEN LAND PARKWAY (REFER TO REVISED GP 85-41). (EST. 3 DAYS)
9. MAINTAIN EXISTING SOST LOCATED LT. STA. 149+ AND STA. 140+ ON BROKEN LAND PARKWAY. SEE SCHEDULE ON SH. 5 OF 6 FOR CLEAN OUT ELEVATIONS. (EST. 1 DAY)
10. EXCAVATE SWALE SEDIMENT TRAPS NO. 3 AND NO. 4. (EST. 1 DAY)
11. BEGIN GRADING OPERATIONS. (EST. 4 DAYS)
12. CONTRACTOR IS GIVEN 14 DAYS FROM THE TIME THE AREA IS DISTURBED TO TIME THE AREA SHALL BE STABILIZED. CONTRACTOR SHALL STABILIZE SUCH AREAS IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES. (SEE THIS SHEET).
13. UPON COMPLETION OF ALL GRADING OPERATIONS AND APPROVAL BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR, PUMP OUT AND BACKFILL ALL TRAPS, REMOVE ALL SILT FENCING, TEMPORARY SWALES, STABILIZED CONSTRUCTION ENTRANCE AND EARTH DIKES. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (SEE THIS SHEET).

DEPARTMENT OF PLANNING AND ZONING:

John W. Marshall 9/26/85
CHIEF, DIV. OF LAND DEVEL. & ZONING ADMIN. DATE

APPROVED: HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS

William B. Remy 10-4-85
CHIEF, BUREAU OF ENGINEERING DATE

CERTIFICATION BY THE DEVELOPER:
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John H. N. J. 7-8-85
Signature of Developer DATE

CERTIFICATION 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 R. Allen 7-2-85
Signature of Engineer DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

James McHale 9/26/85
U.S. Soil Conservation Service DATE

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen L. Hahn 9/26/85
Howard Soil Conservation District DATE

Date	No	Revision Description

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
THE ROUSE COMPANY
COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA: BROKEN LAND PARKWAY WEST
PARCELS 49 & 81 TAX MAPS 35 & 36
5TH ELECTION DISTRICT HOWARD COUNTY, MD.

TITLE: SEDIMENT CONTROL DETAILS

Des By	G.B.J.	Scale	NONE	Proj No	85-0023
Drn By	A.E.B.	Date	JUNE 85		
Chk By	G.R.K.	Approved			

