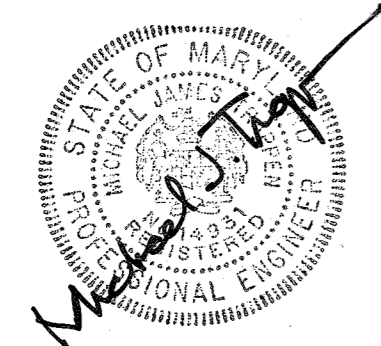


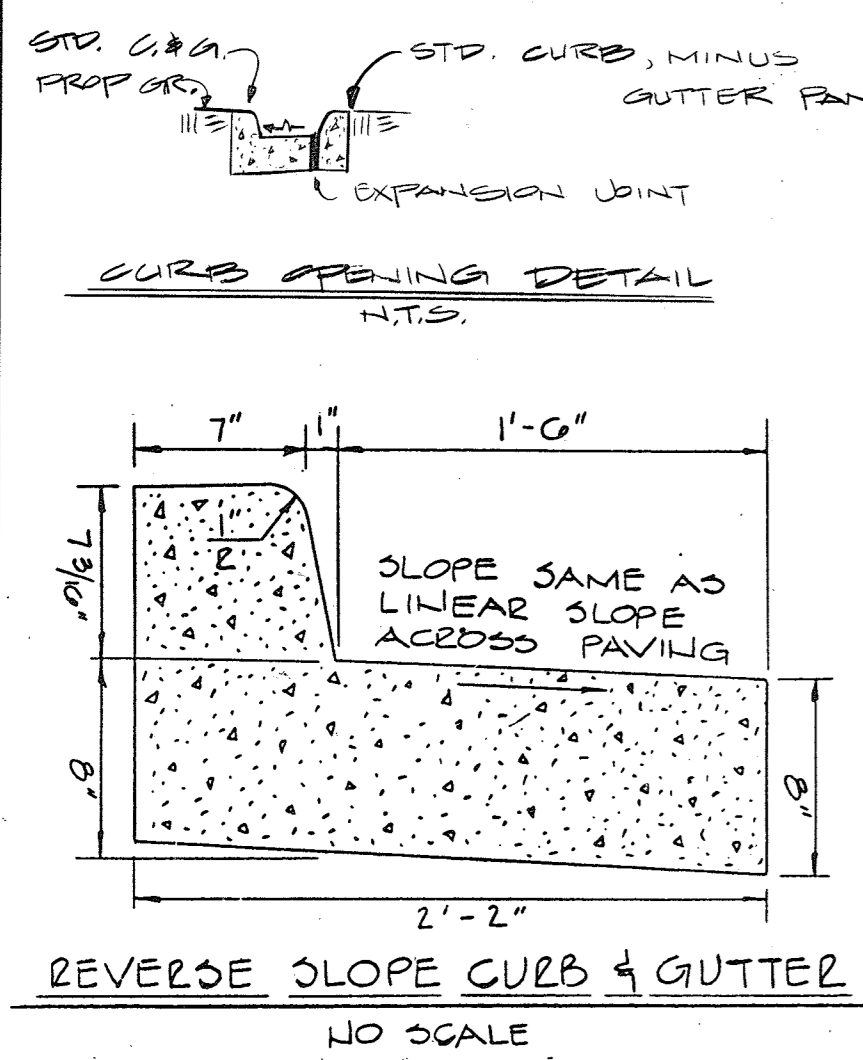
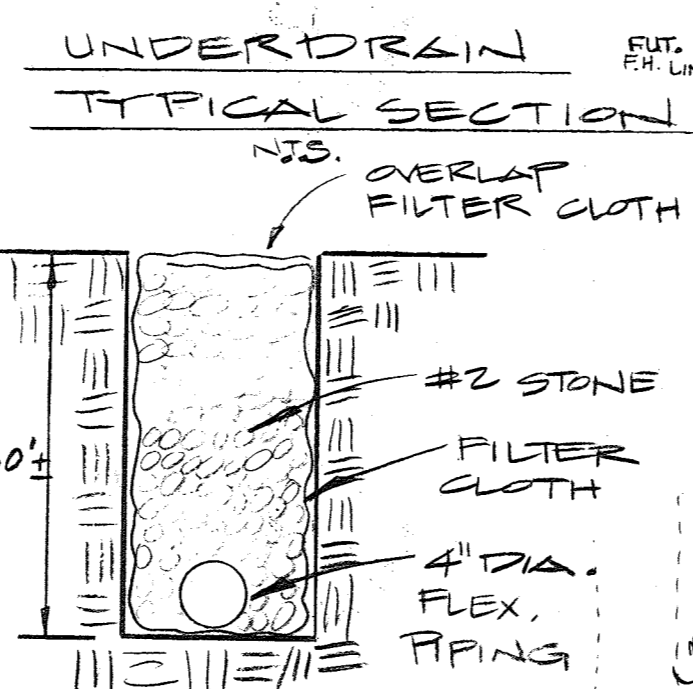
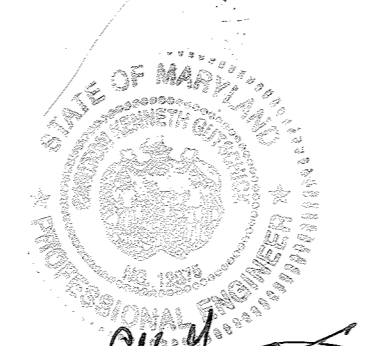
SOILS MAP
SCALE: 1" = 1920'

VILLAGE OF OWEN BROWN
SECTION G / AREA 1
PARCEL 'C-1'
5.700 AC±
ZONED N.T.-INDUSTRIAL
PLAT # 6517

FOR REVISION #1
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 14991 EXPIRATION DATE: MAY 22, 2010



PROFESSIONAL CERTIFICATION
FOR REVISION #1
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12715 EXPIRATION DATE: MAY 26, 2010



HOWARD SOIL CONSERVATION DISTRICT
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *Stephen L. Shuler* DATE: 6/5/86
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS
SIGNATURE: *James M. Johnson* DATE: 6-5-86
THE UNITED STATES SOIL CONSERVATION SERVICE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
APPROVED: *Joyce A. Ryden* DATE: 6-16-86
COUNTY HEALTH OFFICER

APPROVED: *John J. Donnell* DATE: 6-17-86
PLANNING DIRECTOR
DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

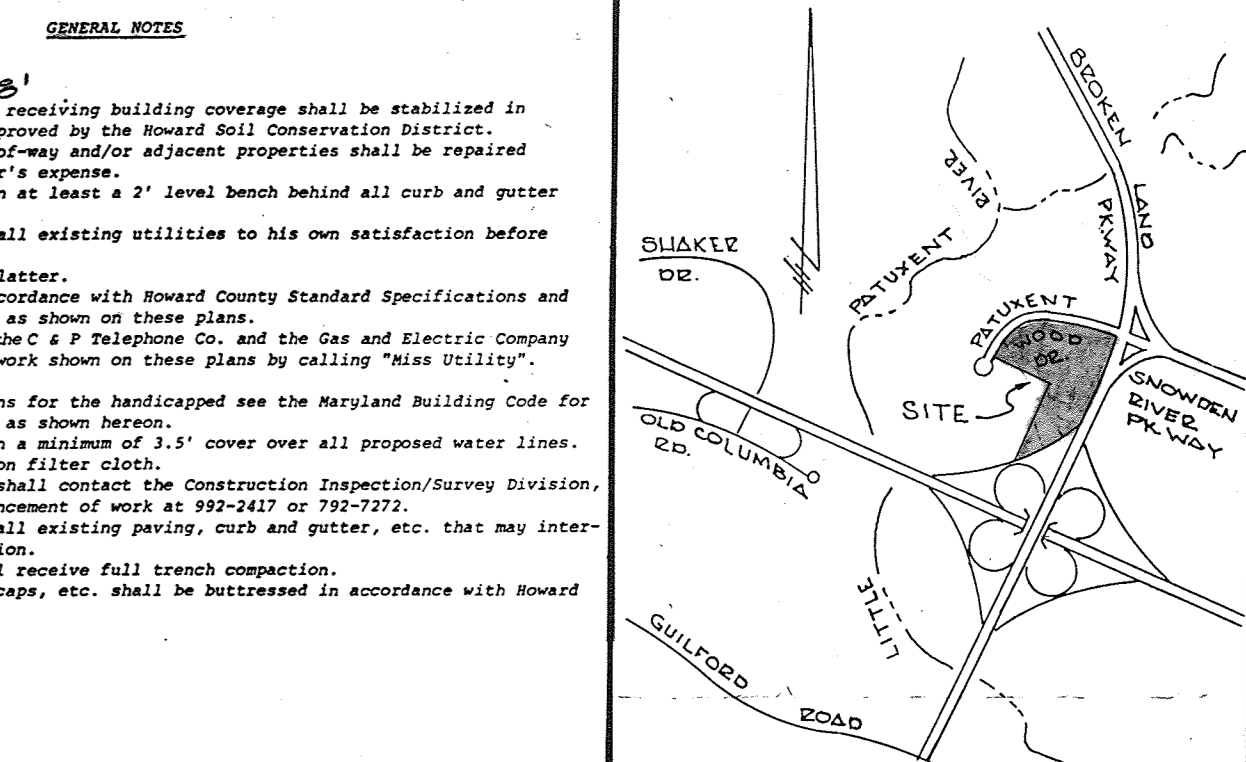
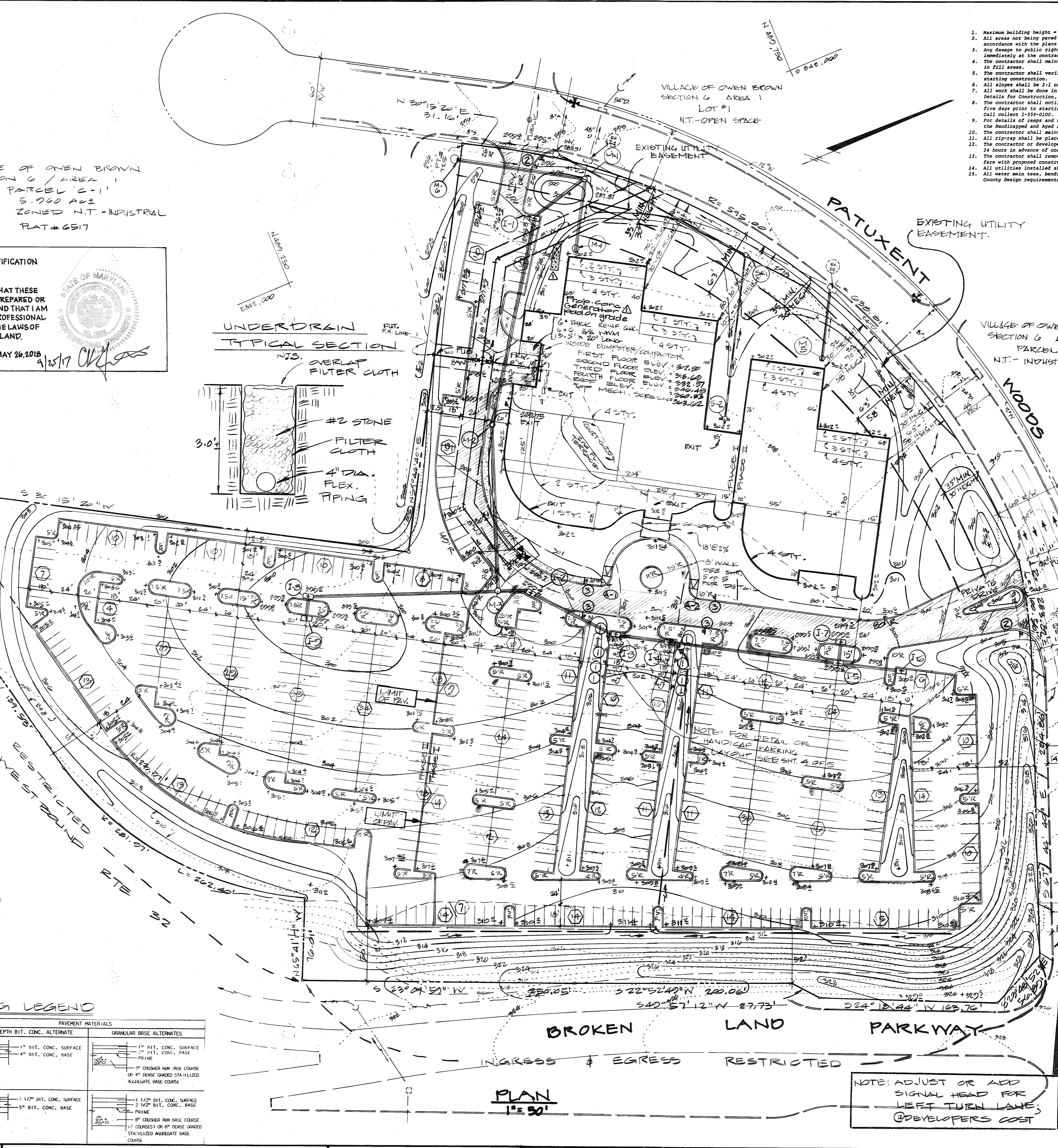
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
APPROVED: *Walter F. Nummy* DATE: 6-9-86
DIRECTOR

APPROVED: *George E. Ray* DATE: 6-9-86
CHIEF BUREAU OF ENGINEERING

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 5-14-86
[Signature]

PAVING LEGEND

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	GRANULAR BASE ALTERNATIVES
P-1	PARKING AREAS AND TRAVELWAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	4" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 1" BIT. CONC. BASE OR 6" CRUSHER RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE
P-2	RESIDENTIAL ZONES LOCAL, COLLEGE BAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE OR 6" CRUSHER RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE



VICINITY MAP
1" = 200'

SITE DATA

Total Area of Site = 11.456 Ac±
Existing Zoning = S.F./Industrial
P.L. 2-8 1477
Existing Use = Vacant
Proposed Use = Office for Research and Development

BUILDING USE/AREA TABULATION

FLOOR	PHASE I		PHASE II	
	OFFICE	CIRCULATION, M/E, BATH	OFFICE	CIRCULATION, M/E, BATH
1	17,295	7528	12,119	36,942
2	16,112	3457	10,925	17,939
3	17,264	6351	23,635	5889
4	15,822	6351	22,173	4529
TOTAL	66,492 S.F.		74,916 S.F.	24,916 S.F.

PHASE I PARKING REQUIRED: 133 @ 2/1000 of (2.5 ADSP) = 333

PHASE II PARKING REQUIRED: 50 @ 2/1000 of (2.5 ADSP) = 125

PHASE I PARKING PROVIDED: 370 P.S., 260 @ 9'x18', 150 @ 9'x12', 6 @ 12'x12'

PHASE II PARKING PROVIDED: 233 P.S., 94 @ 9'x18', 139 @ 9'x12'

Floor Area Ratio = 2.74 / 11.466 = 23.9%
Bldg. Coverage = 1.177 / 11.466 = 10.21%
Maximum Number of Office Employees = 550
Open Space = 2.834 Ac. / 11.466 = 24.72%

NOTE: DEVELOPER TO PAY FOR COST OF RESTRIPING ROADWAY AS REQUIRED.

- LEGEND**
- INDICATES EX. GROUND
 - 100 INDICATES PREP. GRADE
 - INDICATES EX. STORM DRAIN
 - INDICATES PREP. STORM DRAIN
 - INDICATES PUBLIC WATER
 - INDICATES EX. SEWER
 - INDICATES PROP. SEWER
 - INDICATES PARKING FOR HANDICAPPED
 - INDICATES HANDICAP CAMP DETAIL SEE SHT. 4 OF 5
 - INDICATES SIGN; SEE SHT. 2 OF 5
 - NOTE: CENTER DESIGNATE 311 ABBREVIATED THUS: 311
 - INDICATES 4" PERF. UNDERDRAIN (SEE DETAIL THIS SHT)
 - INDICATES EDGE OF PAVING
 - INDICATES CONC. PAV.
- NOTE: ALL BUILDING DIMENSIONS SUBJECT TO FINAL ARCHITECTURAL DRAWINGS.

ADDRESS CHART

BUILDING NO.	STREET ADDRESS				
1	7105 PATUXENT WOODS DRIVE				
SUBDIVISION NAME	SECTION / AREA / LOT / PARCEL #				
VILLAGE OF OWEN BROWN	G/1				
PLAT	BLOCK	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TRACT
6517	3	INDUSTRIAL	42	G	0661.05
WATER CODE	SEWER CODE				
E-19	S290000				

WRS
WILLIAM R. SUDECK & ASSOCIATES, INC.
Consulting Engineers & Land Surveyors
112 South Main Street • Bel Air, Maryland 21014
301-879-4353 301-838-5833

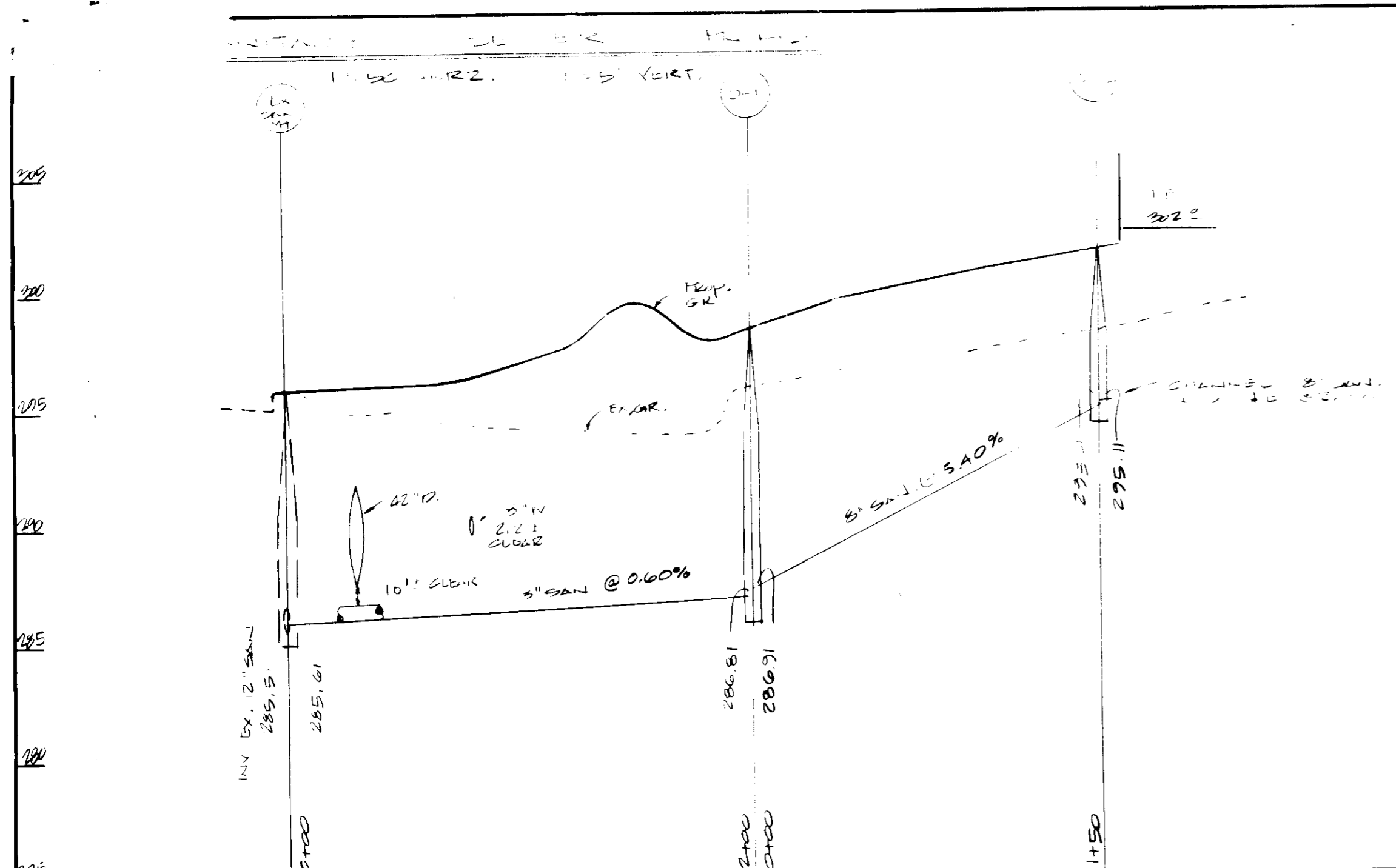
ENGINEER
[Signature]
WILLIAM R. SUDECK 4874
DATE: 5/14/86

OWNER / DEVELOPER
MANEKIN CORPORATION
10270 OLD COLUMBIA ROAD
COLUMBIA, MD. 21046
995-1670

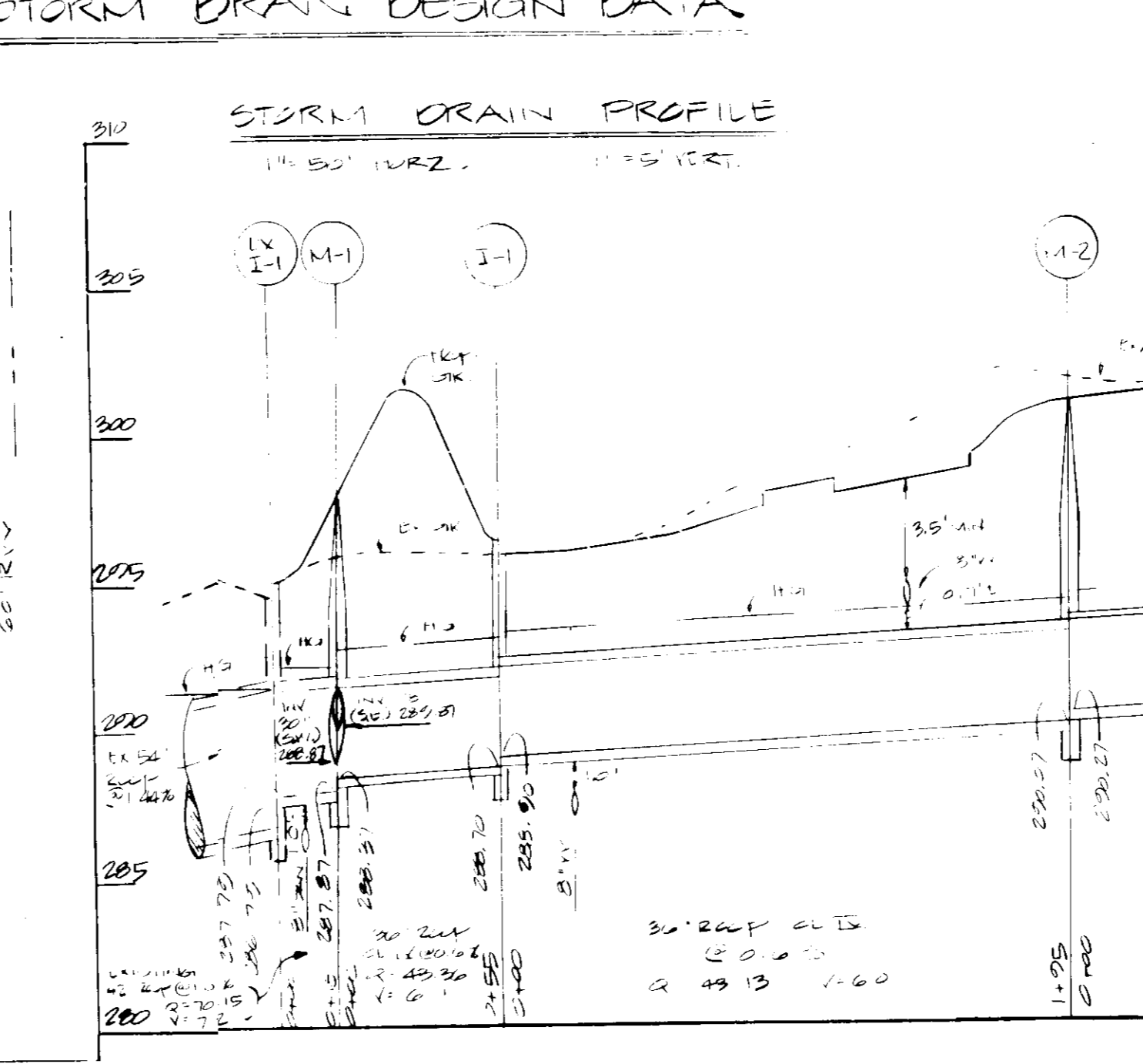
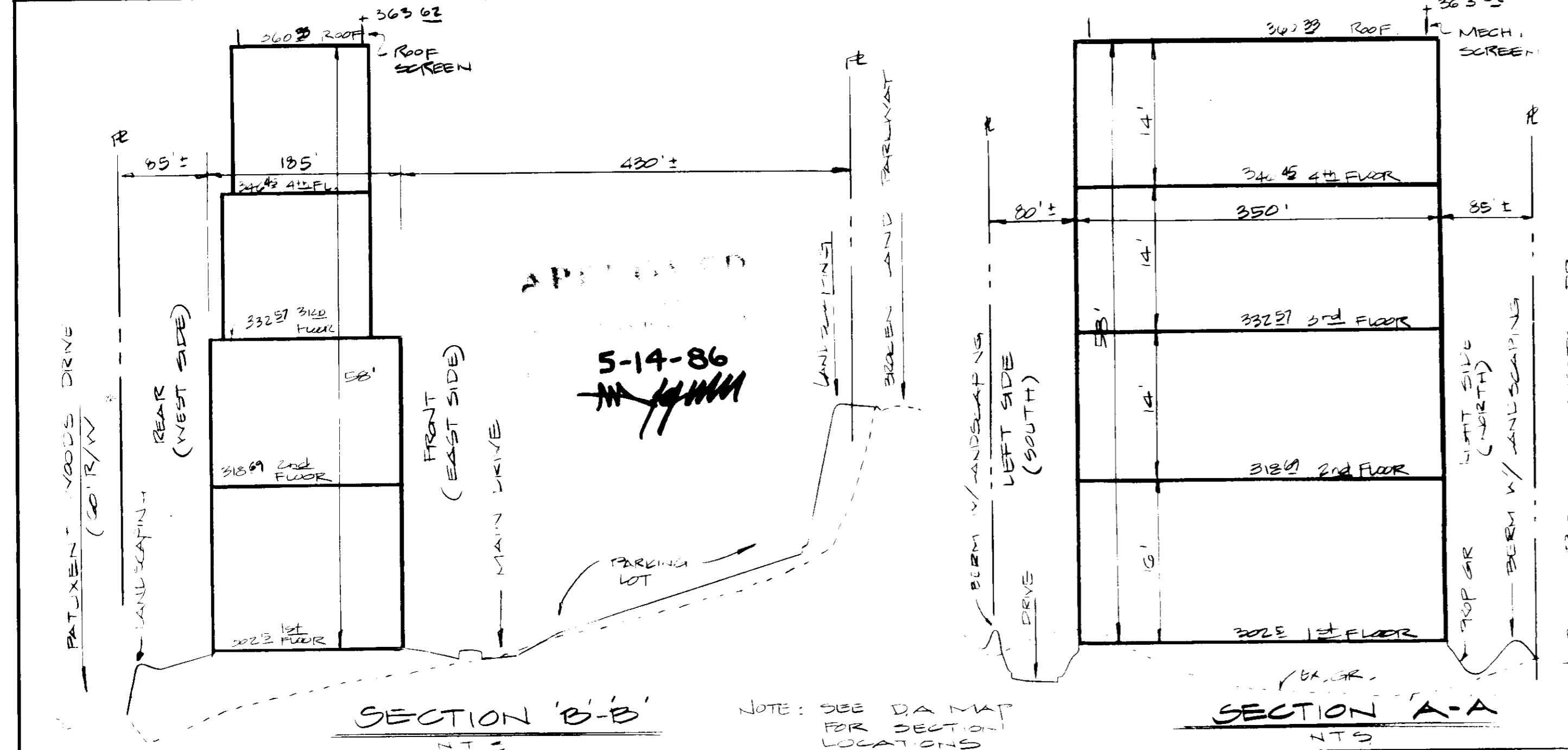
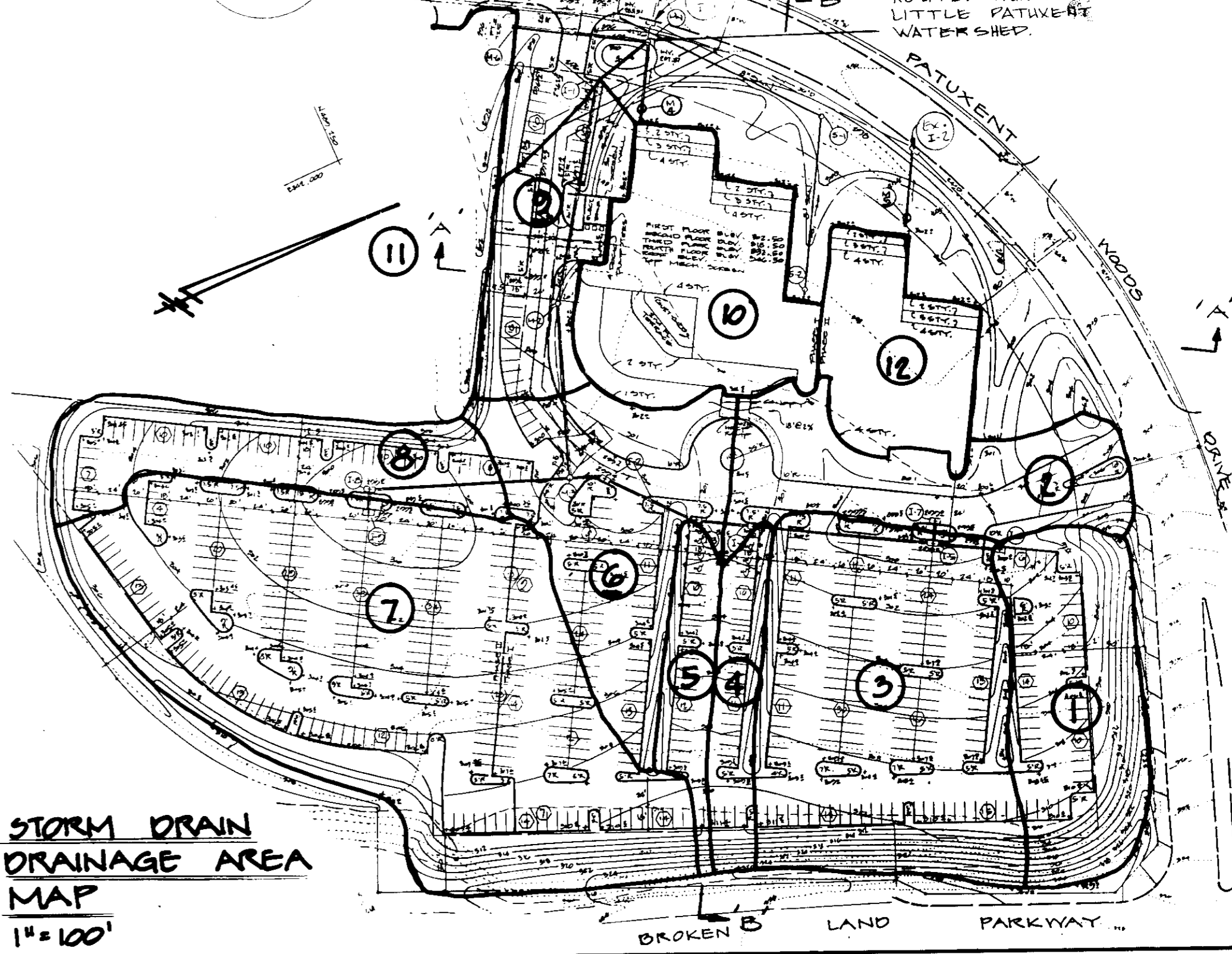
DEVELOPER
[Signature]
RICHARD A. ALTER 578-80
DATE: 5-28-86

DESIGN PER DRANNING CHECKS PER
REVISIONS
ADD CONC. GENERATOR PAD by G.L.W. on 9-25-2017
REV BLDG AREA TABULATION TO ADD MECH AREA WITHIN EX. BLDG FOOTPRINT by G.L.W. on 10-10-2019

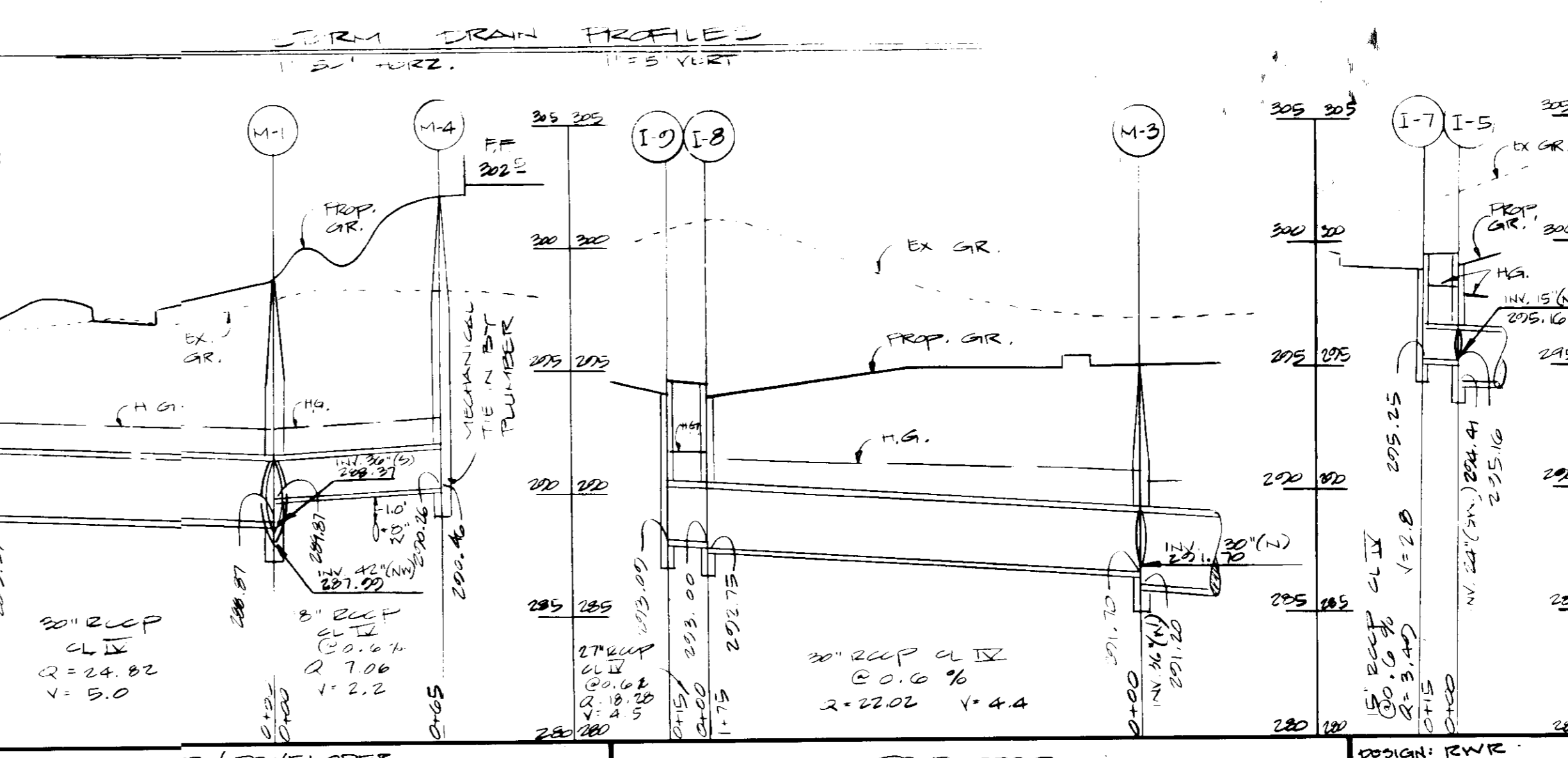
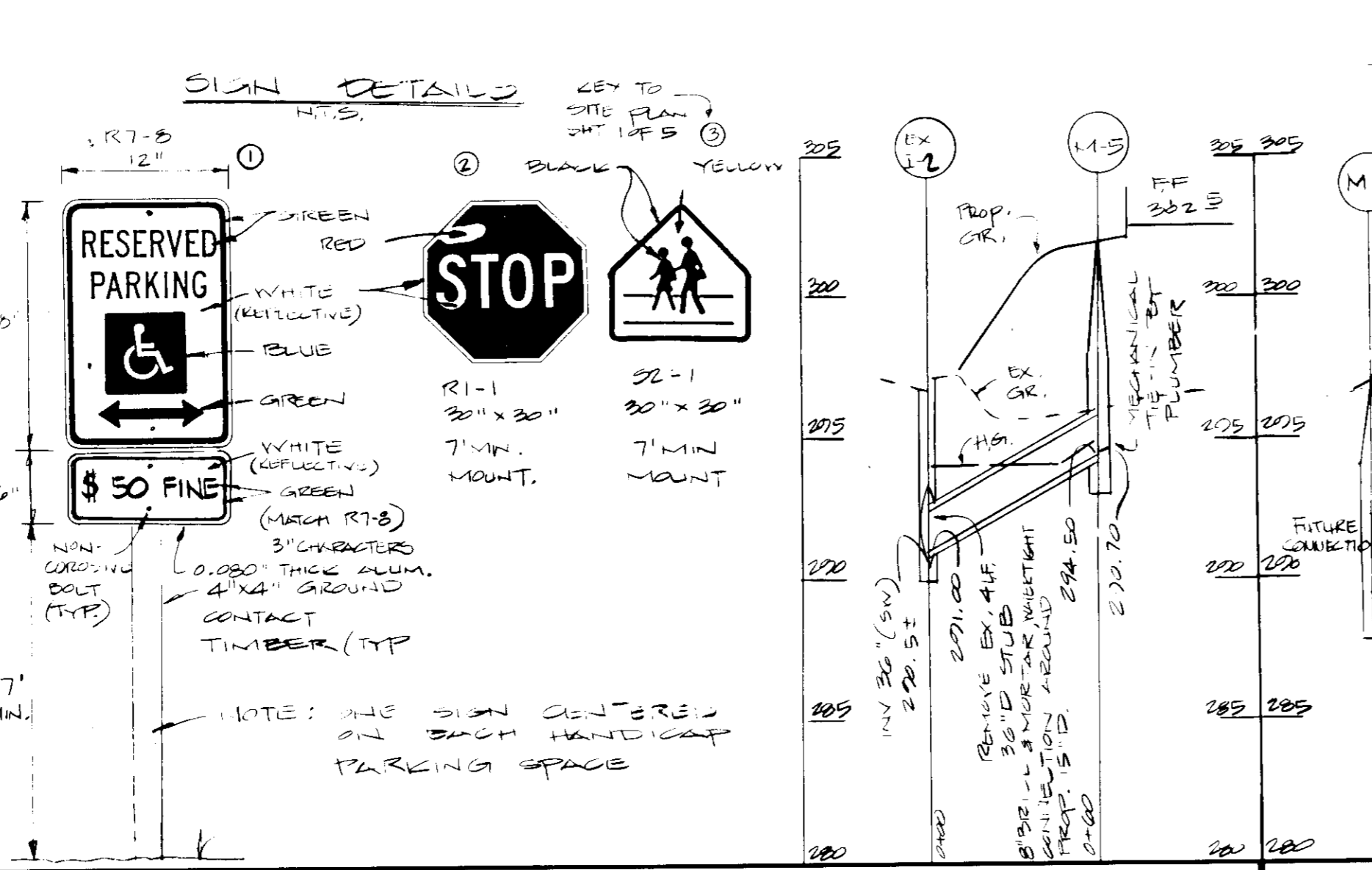
SITE PLAN
FOR
FOUR STORY OFFICE BUILDING
VILLAGE OF OWEN BROWN
SECTION G AREA 1 PARCEL 'D-1'
COLUMBIA
HOWARD CO., MD. ELECT. DIST. #G
SCALE: AS SHOWN DATE: FEB. 9, 2025
SHT 1 OF 5
SDP-86-166



NO.	FROM	TO	AREA	ADRI	Sub	Total	EFF	CA	R CA	TIME	CONC.	MIN	INTEN	O	C IA	PIPE n = 0.014			REMARKS
																Size	Slope	Vel.	
275	I-6	1	0.75	0.33	0.44	5.0	5.0	3.74	15"	0.37	3.0	60'							
275	I-6	1-5	1	0.75	0.61	0.44	5.0	5.0	3.74	15"	0.37	3.0	60'						
275	I-7	2	0.67	0.67	0.41	0.41	5.0	5.0	3.40	15"	0.32	2.8	15'						
275	I-5	3	1.15	0.88	1.01	5.0	5.0	3.50	15"	0.34	3.0	15'							
275	I-5	I-4	3	2.57	2.1	0.20	5.0	5.0	3.5	15"	0.34	3.0	15'						
275	I-4	I-3	1-4	2.85	2.20	0.3	5.0	5.0	3.2	10.80	27"	0.34	3.4	60'					
275	I-3	I-3	5	0.23	0.23	0.17	5.0	5.0	1.62	24"	0.54	4.0	150'						
275	I-2	I-2	1-5	3.08	2.25	0.3	5.0	5.0	3.0	18.00	27"	0.31	4.4	85'					
275	I-2	I-2	6	0.90	0.77	0.40	5.0	5.0	3.5	18.25	30"	0.35	4.0	35'					
275	I-2	M-3	1-6	3.93	2.94	0.3	5.0	5.0	3.5	18.25	30"	0.35	4.0	35'					
275	I-2	I-2	7	2.75	0.78	2.15	5.0	5.0	3.5	18.25	27"	0.34	3.5	15'					
275	I-2	I-3	8	0.62	0.71	0.44	5.0	5.0	3.5	3.74	30"	0.32	4.4	175'					
275	I-3	M-3	7+8	3.37	2.30	0.5	5.0	5.0	3.5	22.02	30"	0.32	4.4	175'					
275	M-3	M-2	1-3	1.35	0.53	0.1	5.0	5.0	7.0	43.13	36"	0.47	6.0	155'					
275	M-2	I-1	1-8	7.35	5.33	0.5	5.0	5.0	7.8	43.13	36"	0.47	6.0	155'					
275	I-1	I-1	9	0.52	0.63	0.33	5.0	5.0	3.5	2.81	30"	0.32	4.4	175'					
275	I-1	M-1	1-2	7.87	5.26	0.5	5.0	5.0	7.5	7.4	43.20	36"	0.47	6.0	155'				
275	M-4	M-1	10	0.85	0.93	0.83	5.0	5.0	3.5	7.06	18"	2.5	2.2	65'					
275	M-6	M-1	11	3.45	0.80	2.92	5.0	5.0	3.5	24.82	30"	0.42	5.0	120'					
275	M-1	I-1	1-11	12.37	4.6	7.5	0.2	7.7	7.3	12.15	36"	0.57	7.2	18'					
275	M-5	I-2	12	0.31	0.18	0.30	5.0	5.0	3.5	2.55	15"	0.17	2.0	65'					



HOWARD SOIL CONSERVATION DISTRICT
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *Stephan Shah* DATE: 6/5/86
 HOWARD SOIL CONSERVATION DISTRICT
 REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE: *James M. Hehn* DATE: 6/5/86
 THE UNITED STATES SOIL CONSERVATION SERVICE
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James Boyden* DATE: 6/15/86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *Shirley Muschman* DATE: 6-17-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *Jim F. Newman* DATE: 6-1-86
 CHIEF BUREAU OF ENGINEERING: *John G. ...* DATE: 6-1-86



NO.	TYPE	INV. IN	INV. OUT	PIPE DIA.	TO CO.	ST. MARK	DETO.	NO.
I-1	24" RCP CL I	292.10	291.21	200.4	20.0	4.24		
I-2	24" RCP CL I	292.87	292.67	201.2	20.0	4.24		
I-3	24" RCP CL I	293.48	293.23	201.2	20.0	4.24		
I-4	24" RCP CL I	293.10	292.41	200.0	20.0	4.24		
I-5	24" RCP CL I	293.00	292.75	200.0	20.0	4.24		
I-6	24" RCP CL I	293.00	292.75	200.0	20.0	4.24		
I-7	24" RCP CL I	293.00	292.75	200.0	20.0	4.24		
I-8	24" RCP CL I	293.00	292.75	200.0	20.0	4.24		
I-9	24" RCP CL I	293.00	292.75	200.0	20.0	4.24		
M-1	36" STD. 4' PRECAST	292.27	291.87	208.0	G-5	12.5		
M-2	36" STD. 4' PRECAST	292.27	291.87	208.0	G-5	12.5		
M-3	36" STD. 4' PRECAST	291.70	291.20	209.7	G-5	12.5		
M-4	36" STD. 4' PRECAST	291.70	291.20	209.7	G-5	12.5		
M-5	36" STD. 4' PRECAST	291.70	291.20	209.7	G-5	12.5		
M-6	36" STD. 4' PRECAST	291.70	291.20	209.7	G-5	12.5		
M-6	36" STD. 4' PRECAST	291.70	291.20	209.7	G-5	12.5		

ADDRESS CHART	
BUILDING NO.	0105 PATUXENT WOODS DRIVE
SUBDIVISION NAME	VILLAGE OF OWEN BROWN
PLAT BLOCK ZONE	6-517 3
WATER CODE	E-13

WRS
 WILLIAM R. SUDECK & ASSOCIATES, INC.
 Consulting Engineers & Land Surveyors
 112 South Main Street • Bel Air, Maryland 21014
 301-879-4333 301-838-5833

ENGINEER
William R. Sudeck
 WILLIAM R. SUDECK
 REG. NO. 1074
 DATE 5/28/86

OWNER/DEVELOPER
 MANEKIN CORPORATION
 10270 OLD COLUMBIA ROAD
 COLUMBIA, MD. 21046
 995-1670

DEVELOPER
 RICHARD ALTER
 DATE 5-28-86 2-17

PROFILES & DETAILS
 PAR
 FOUR STORY OFFICE BUILDING
 VILLAGE OF OWEN BROWN
 SECTION G AREA 1 PARCEL 'D'
 COLUMBIA
 HOWARD CO., MD. ELEC. DIST. #6
 SCALE: AS SHOWN DATE: 6-1-86
 SDP-86-166

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeding Preparation: Loosen upper three inches of soil by raking, disking 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 disk 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 1700 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disk into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 90 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 90 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.03 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, plant site by section (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Section (2) Use sod. Section (3) Seed with 90 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 15 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 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacement and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be restabilized where a short-term vegetative cover is needed.

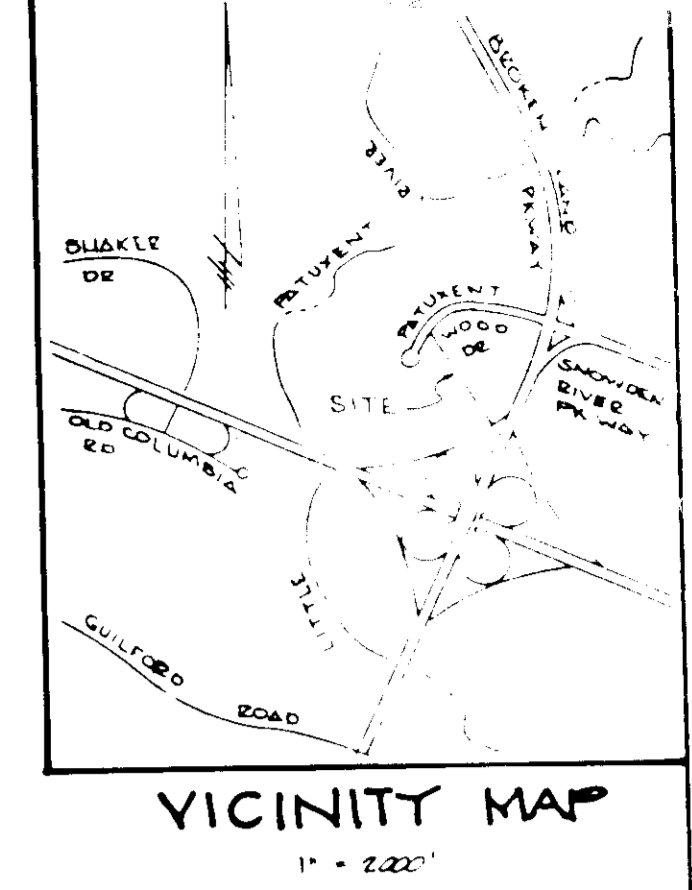
Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

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 75 lbs/acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 1 lb per acre of weeping lovegrass (0.01 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 15 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 feet 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.

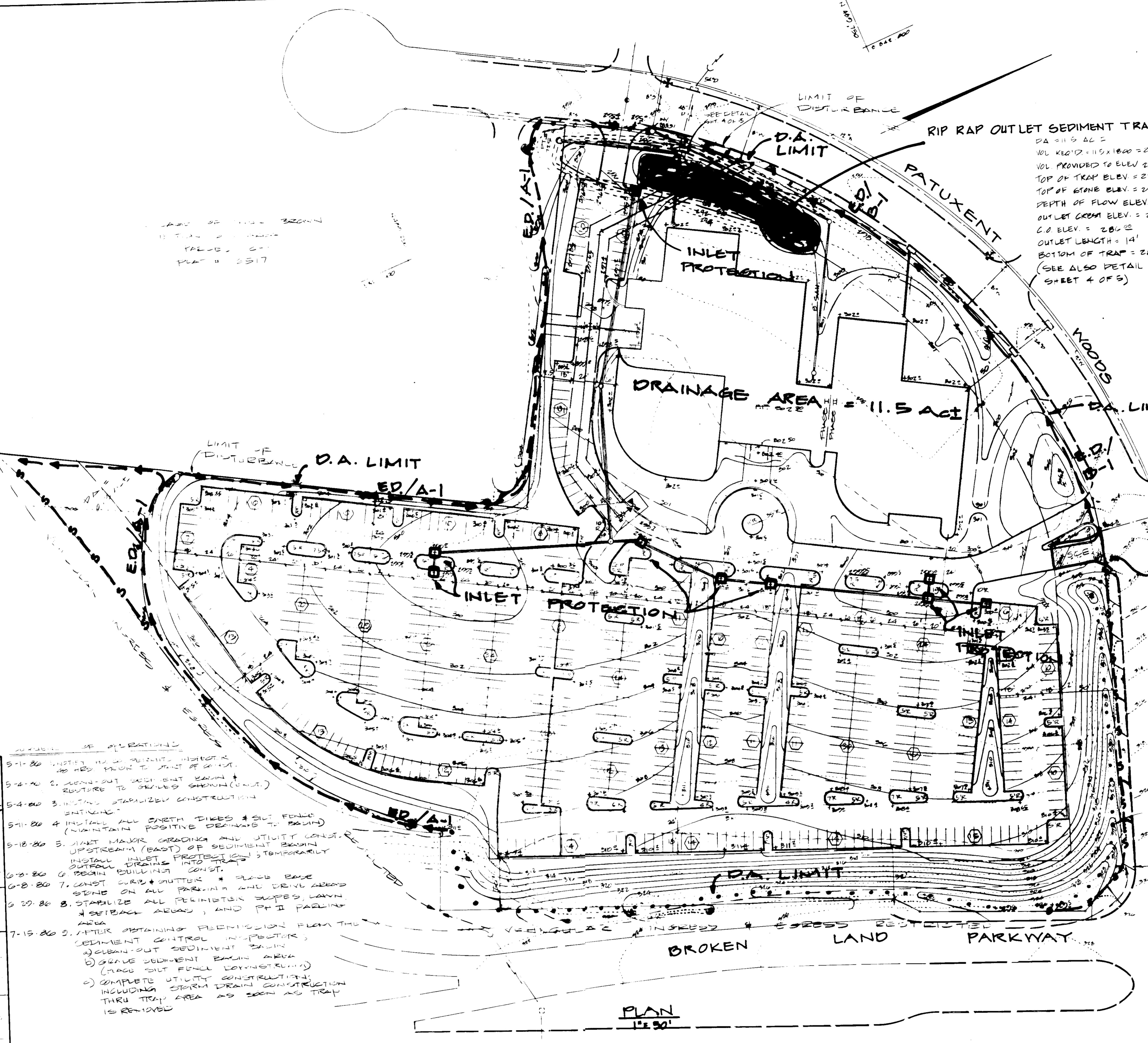


RIP RAP OUTLET SEDIMENT TRAP

DA = 11.5 AC ±
VOL REQ'D = 11.5 x 1800 = 20,700 CF
VOL PROVIDED TO ELEV 288 = 20,300 CF
TOP OF TRAP ELEV = 295.13
TOP OF STONE ELEV = 295.02
DEPTH OF FLOW ELEV = 291.02
OUTLET CREST ELEV = 289.02
C.O. ELEV. = 286.02
OUTLET LENGTH = 14'
BOTTOM OF TRAP = 284.02
(SEE ALSO DETAIL PLAN SHEET 4 OF 5)

- SEDIMENT CONTROL NOTES**
- 1) A minimum of 24 hour notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (1992-2437)
 - 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 redistribution, permanent or temporary stabilization shall be completed within a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
 - 4) If sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 11, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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 permanent seeding (Sec. 53) and (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.
 - 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	11.400 Acres
Area Disturbed	11.400 Acres
Area to be seeded or vegetatively stabilized	11.400 Acres
Total Cut	21,300 cu. yds.
Total Fill	0 cu. yds.
Offsite waste/borrow area location	N/A
 - 8) Any sediment control practice which is disturbed by grading activity for placement of structures must be repaired on the same day of disturbance.
 - 9) Additional sediment controls must be provided, if deemed necessary by the Howard County CPM sediment control inspector.
 - 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



APPROVED
PLANNING
COMMISSION
OF HOWARD COUNTY
DATE: 5-14-86
BY: [Signature]

TOTAL AREA OF SITE = 11.400 AC ±
TOTAL DISTURBED AREA = 11.400 AC ±
AREA TO BE VEGETATIVELY STABILIZED = 2.834 AC ±
210,532 SF

- SCHEDULE OF OPERATIONS**
- 5-1-86 UNSTABILIZED AREA SUBJECT TO EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 - 5-2-86 2. SCOUR-OUT SEDIMENT BASIN + RETURN TO SERVICE SHOWING (C)
 - 5-4-86 3. INITIAL STABILIZED CONSTRUCTION ENTRANCE
 - 5-11-86 4. INSTALL ALL EARTH DIKES & SILT FENCE (MAINTAIN POSITIVE DRAINAGE TO BASIN)
 - 5-18-86 5. INLET MAJOR GRADING AND UTILITY CONST. UPSTREAM (EAST) OF SEDIMENT BASIN. INST. INLET PROTECTION; TEMPORARILY SUBSIDY DRAINS INTO TRAP
 - 6-8-86 6. BEGIN BUILDING CONST.
 - 6-2-86 7. CONST CURB + OUTER & RASE BASE STONE ON ALL PERIMETER SLOPES, LAWN & SEEDING AREAS, AND PHI PARKING AREA
 - 6-29-86 8. STABILIZE ALL PERIMETER SLOPES, LAWN & SEEDING AREAS, AND PHI PARKING AREA
 - 7-15-86 9. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR:
 - a) CLEAN-OUT SEDIMENT BASIN
 - b) GRADE SEDIMENT BASIN AREA (GRADE SILT FENCE DOWNSTREAM)
 - c) COMPLETE UTILITY CONSTRUCTION INCLUDING STORM DRAIN CONSTRUCTION THRU TRAP AREA AS SHOWN AS TRAP IS REMOVED

HOWARD COUNTY OFFICE OF INSPECTION AND PERMITTING
STEPHEN L. FRISVOLD 4/3/86

HOWARD COUNTY SOIL CONSERVATION DISTRICT
JAMES M. STEIN 6-5-86

HOWARD COUNTY OFFICE OF PLANNING & ZONING
JORGAN BYLIE 6-16-86

HOWARD COUNTY OFFICE OF PLANNING & ZONING
JOHN W. MASCHERIAN 6-17-86

HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 6-2-86

ADDRESS CHART

BUILDING NO	0106	STREET ADDRESS	0106 PATUXENT DRIVE
SUBDIVISION NAME	VILLAGES OF OWEN BROWN	SECT. AREA	LOT. PAR. PL. #
PLAT	4517	TAX/ZONE MAP	ELECT DIST #6
BLOCK	0	CHASSIS TRACT	000 33
WATER CODE	E-15	PERMIT CODE	525.0000

WRS
WILLIAM R. SUDECK & ASSOCIATES, INC.
Consulting Engineers & Land Surveyors
112 South Main Street • Bel Air, Maryland 21014
301-879-4353 301-838-5833

ENGINEER'S CERTIFICATE

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. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature]
Signature of Engineer
404 5/18/86
Reg. No. Date

OWNER/DEVELOPER

MANEKIN CORPORATION
10270 OLD COLUMBIA ROAD
COLUMBIA, MD. 21046
995-1670

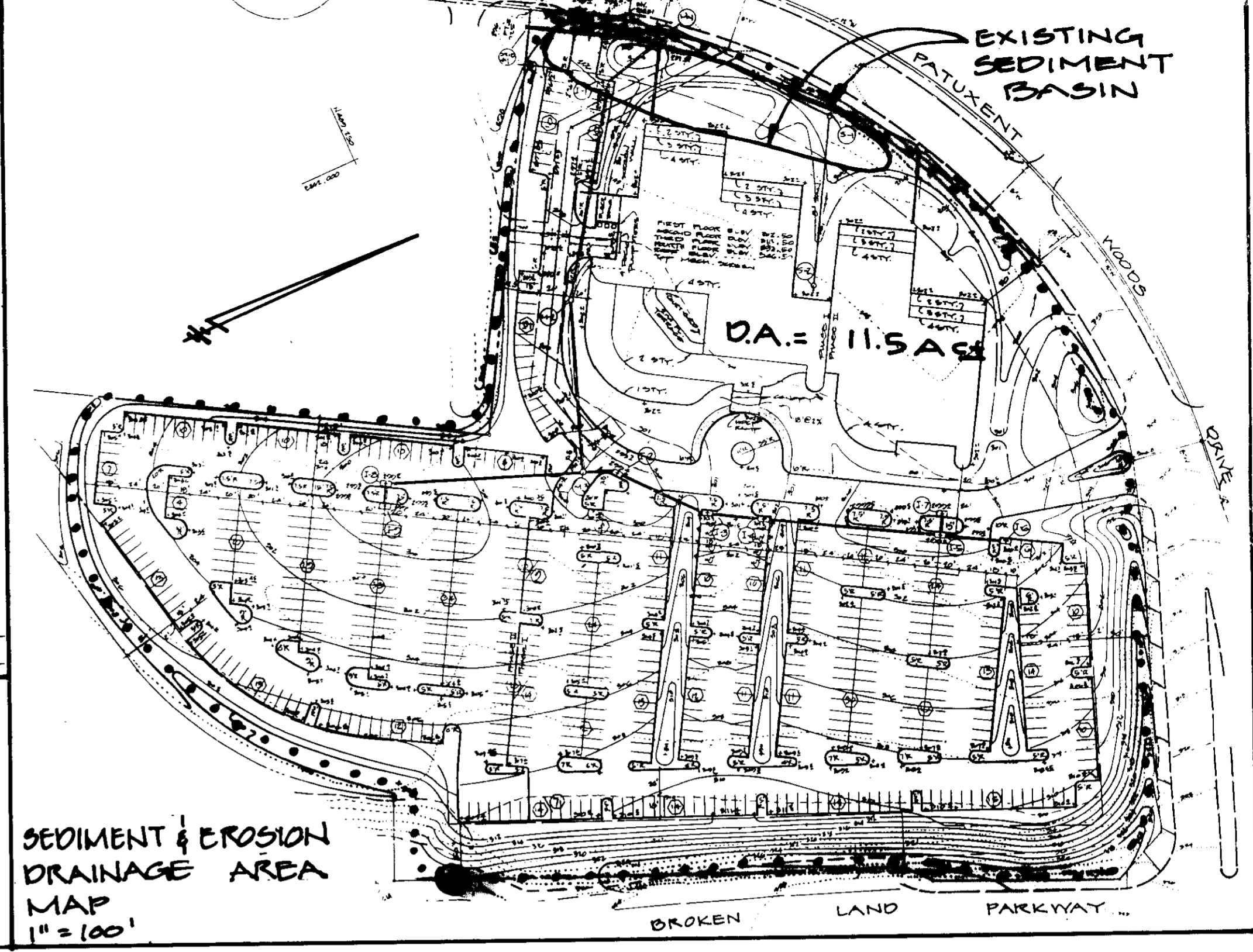
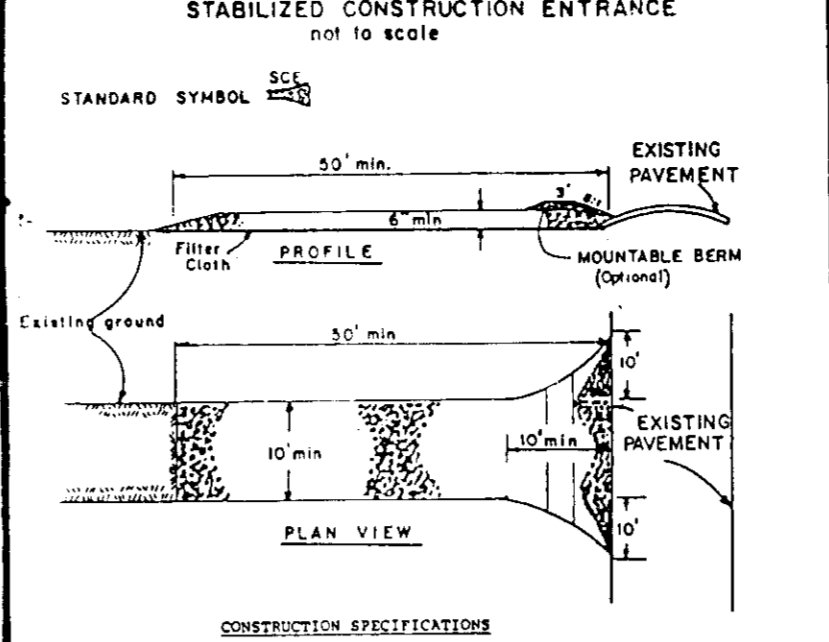
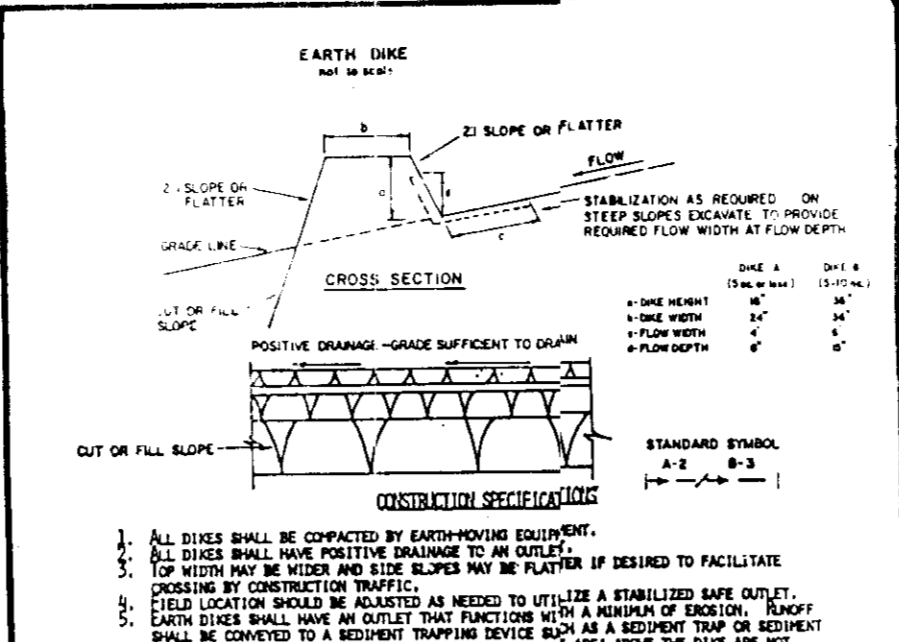
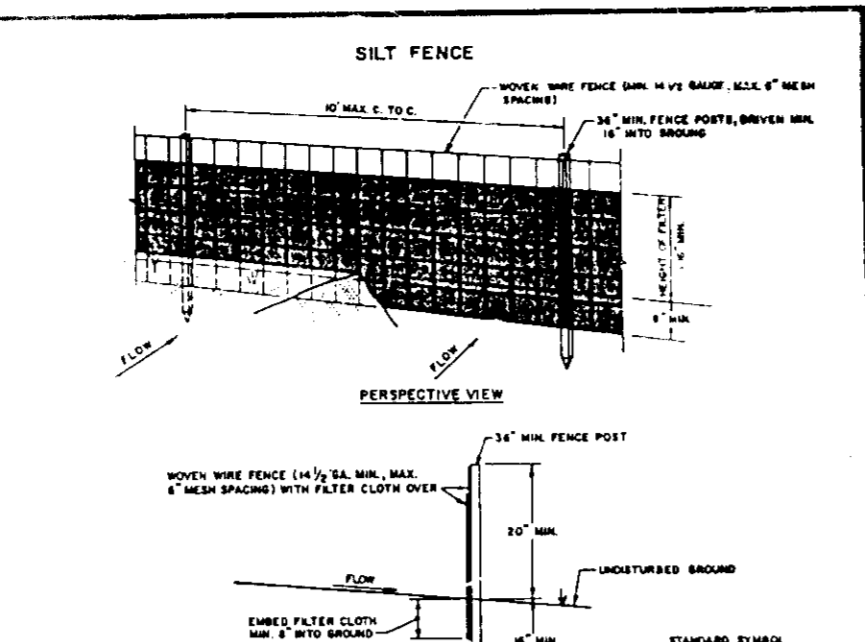
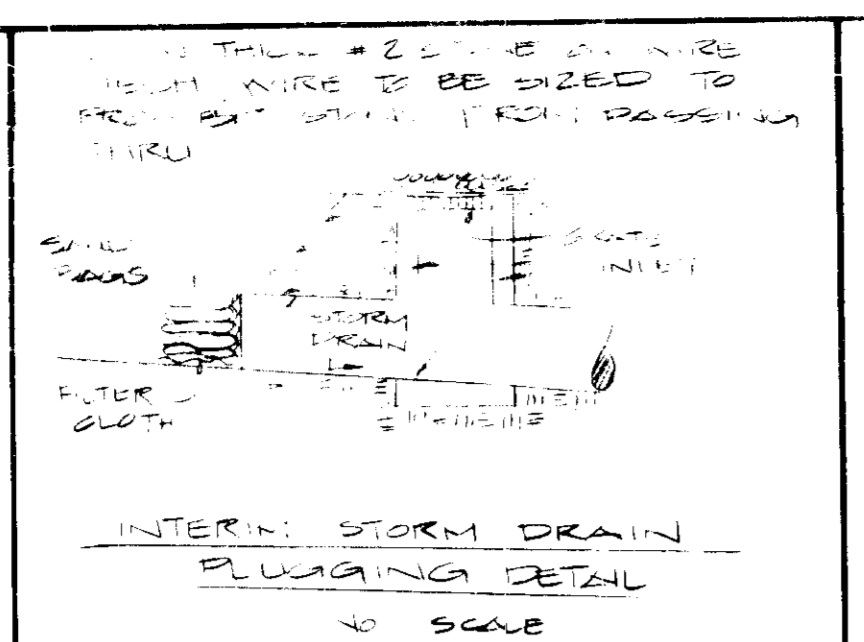
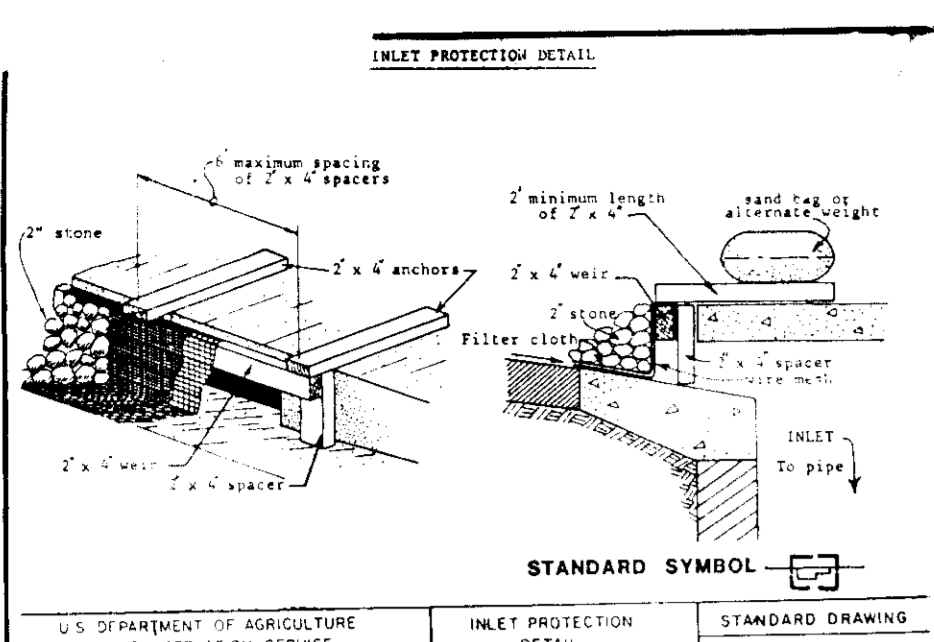
DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to these plans, 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. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

[Signature]
Signature of Developer
5-28-86
Date

GRADING, EROSION, & SEDIMENT CONTROL PLAN

FOR
FOUR STORY OFFICE BUILDING
VILLAGES OF OWEN BROWN
SECTION 6 AREA 1 PARCEL 'D-1'
COLUMBIA
HOWARD CO., MD
SCALE: AS SHOWN
ELECT DIST #6
DATE: MAR. 1, 1986
SHT 3 OF 5
SDP-86-166c



STANDARD SYMBOL

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

INLET PROTECTION
DETAIL
IPD-1

Construction Specifications

- Materials**
 - Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb intake, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with a pore size, FOS, 40-85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, dense fines would clog the cloth.
- Procedure**
 - A weir, ditchline or yard inlet protection.

NOTE: AT THE END OF EACH WORKING DAY DURING LAYOUT * CONSTRUCTION OF STORM DRAINS THE UPPER END OF THE COMPLETE SYSTEM SHALL BE PLUGGED TO PREVENT SEDIMENTATION OF PIPE SYSTEM

NOTE: NUTS TO REMAIN PLUGGED UNTIL SITE IS STABILIZED

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- When wire fence is fastened securely to frame posts with fine ties or staples.
- Filter cloth to be fastened securely to wooden frame with ties spaced every 4" top and mid section.
- When top sections of filter cloth are laid down they shall be overlapped by six inches and folded.
- Fastening shall be performed as specified on material sheets when fabric develops in the field.

POSTS: STEEL TYPED 1" OR 1 1/2" TYPE OR 1" x 4" WOODEN TYPE OR 2" x 4" WOODEN TYPE WITH 1/2" DIA. RIVETS

FENCE: WIRE MESH 20 GA. 2" x 4" WIRE MESH

PREPARED UNIT: GEOTEK, DYNAFLO, OR APPROVED EQUIV.

FLUX LEVEL STABILIZATION

TYPE OF STABILIZER	GRADE	DIKE A	DIKE B
1	5-3.00	SEED AND STRAW PUNCH	SEED AND STRAW PUNCH
2	3.1-5.00	SEED AND STRAW PUNCH	SEED AND STRAW PUNCH
3	5.1-6.00	SEED WITH ATE, OR SEED 2" TIME	LINED RIP-RAP 4-8"
4	6.1-8.00	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.

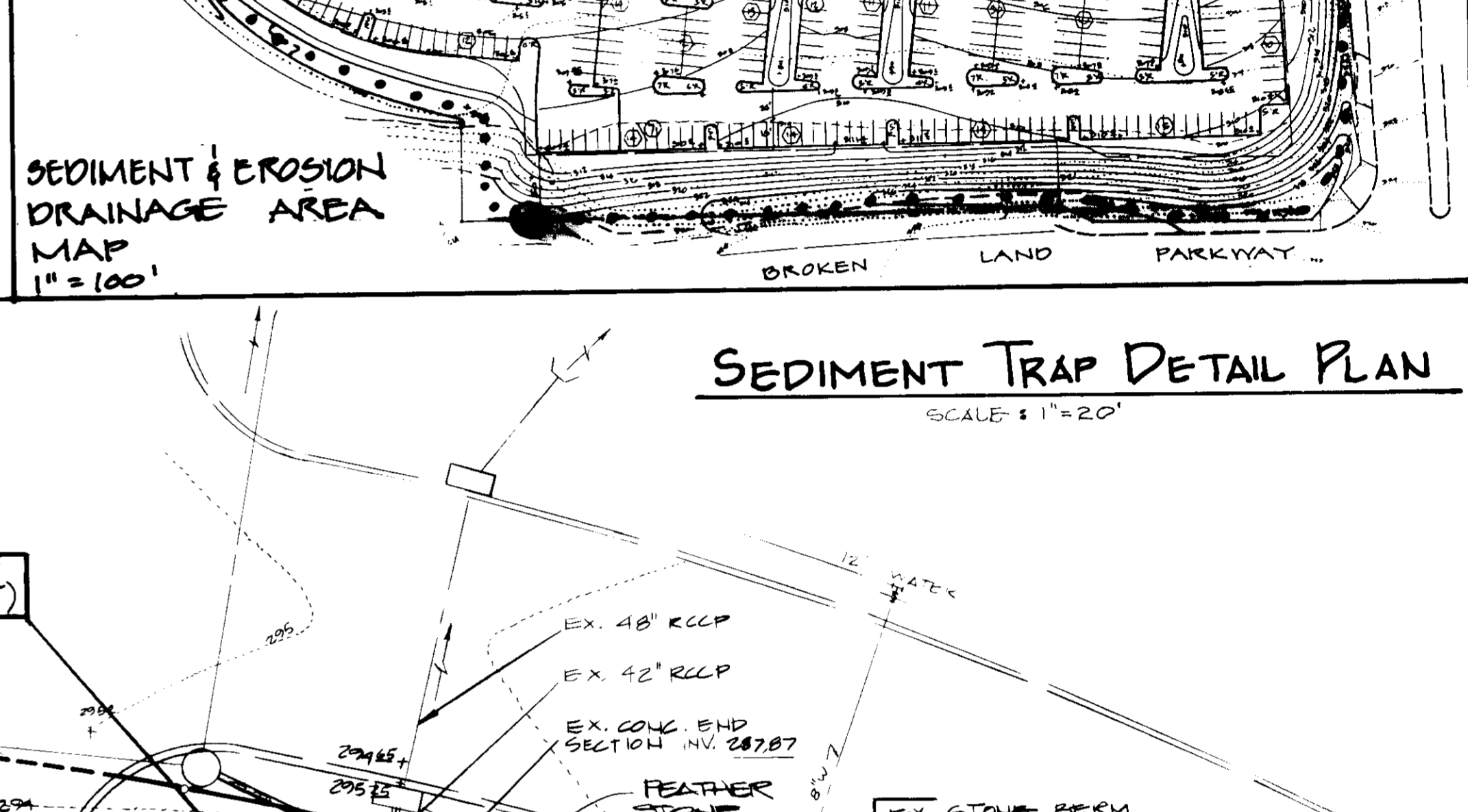
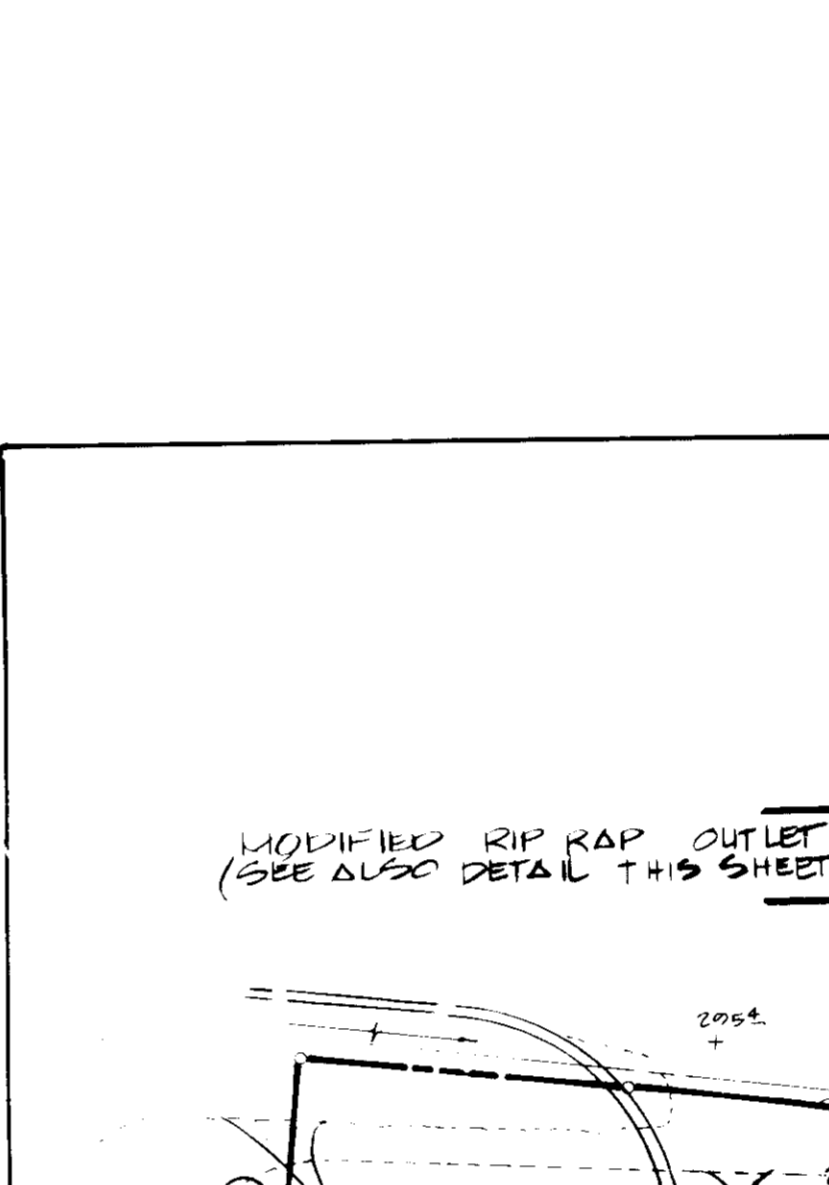
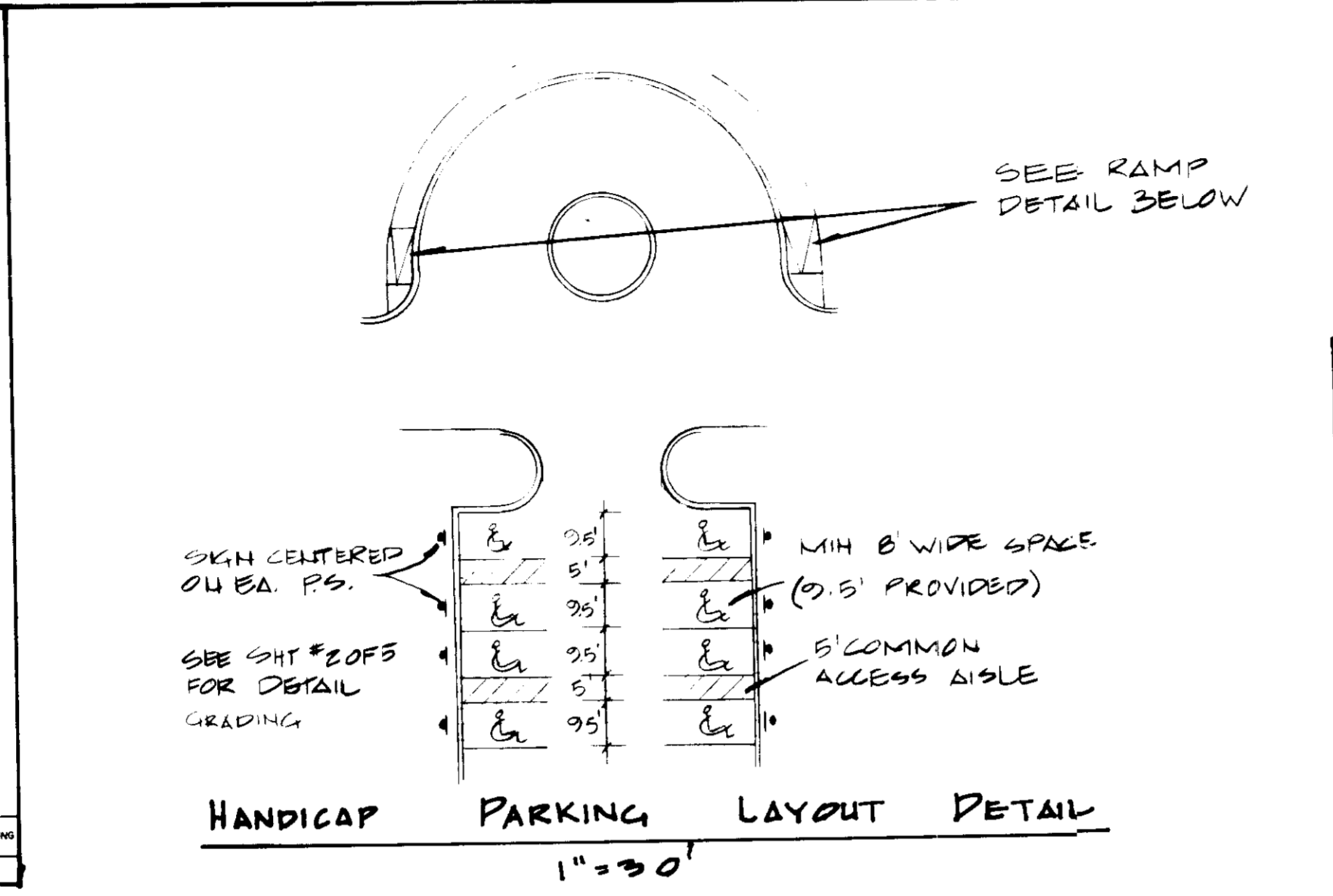
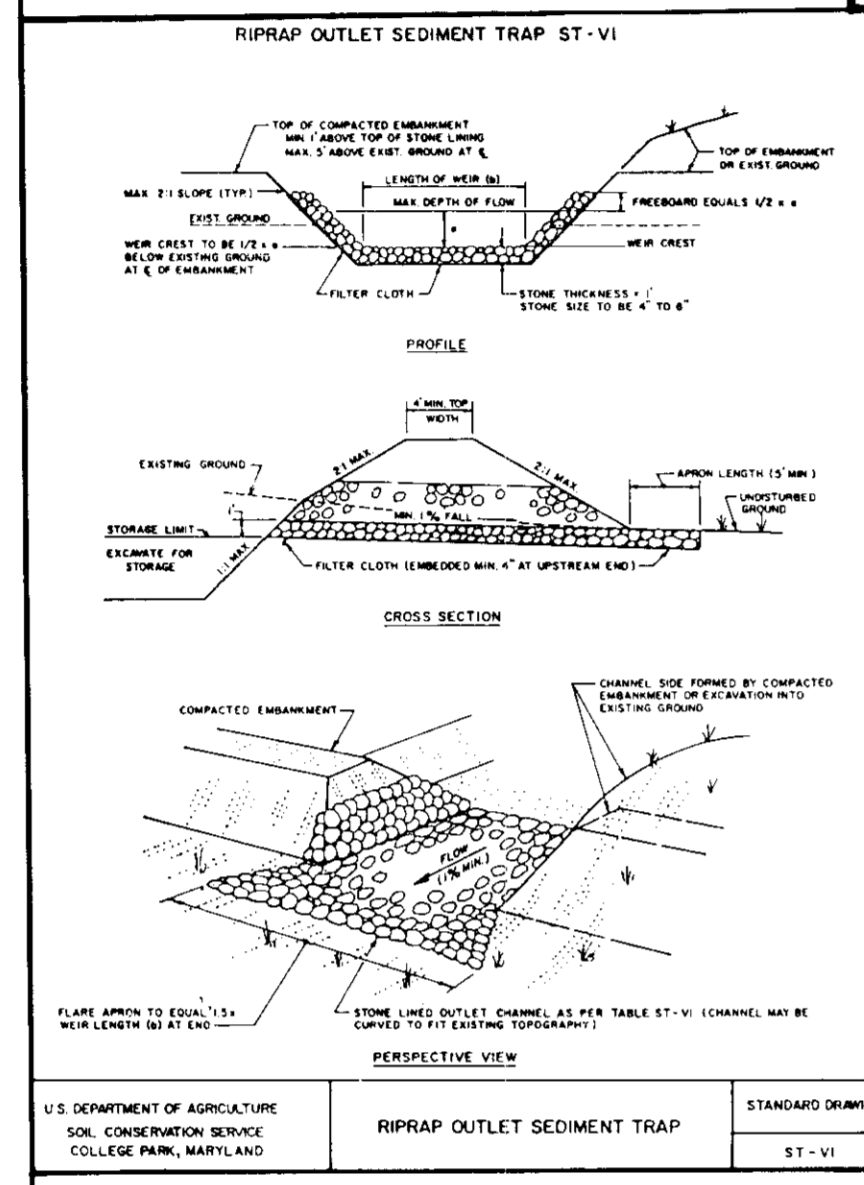
B. Rip-rap to be 4 to 8 inches in a layer at least 8 inches thick and pressed into the soil.

C. Rip-rap materials can be substituted for any of the above materials if approved by the engineer.

D. Rip-rap materials can be substituted for any of the above materials if approved by the engineer.

CONSTRUCTION SPECIFICATIONS

- Stone Size - One (1) stone, or equivalent or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residential lot.
- Surface water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slope will be permitted.
- 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 measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Trucks 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 established with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain event.



CONSTRUCTION SPECIFICATIONS

- Secure completely around inlet to a depth of 18" below notch elevation.
- Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail string between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint above. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Hole must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of the weir.
- This structure must be inspected frequently and the filter fabric replaced when clogged.

Curb Inlet Protection.

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" length of 2" x 4" to the top of the weir at apex locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by another of alternate weight.
- The assembly shall be placed on that the end spacers are a minimum 1" beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

Maintenance

- Inspect Daily; Repair And/or Replace As Required

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

APPROVED: *Stephen L. Spahr* DATE: 6-2-86
HOWARD SOIL CONSERVATION DISTRICT

REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS

SIGNATURE: *John M. Kelly* DATE: 6-5-86
THE UNITED STATES SOIL CONSERVATION SERVICE

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

Dorcas Byler 676-86
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR
John W. Maccham DATE: 6-7-86
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR
Mike Davis DATE: 6-7-86
CHIEF BUREAU OF ENGINEERING

5-14-86
H. H. H. H.

ENGINEER

William R. Sudeck
WILLIAM R. SUDECK
REG. NO. 51026
DATE 5/10/86

OWNER/DEVELOPER

MANEKIN CORPORATION
10270 OLD COLUMBIA ROAD
COLUMBIA, MD. 21046
995-1670

DEVELOPER

Richard Alter
RICHARD ALTER
5-2846
DATE 5-28-86

ADDRESS CHART

BUILDING NO.	STREET ADDRESS
1	910 PATIENT WOODS DRIVE

PROFILES & DETAILS

FOUR STORY OFFICE BUILDING
VILLAGE OF OWEN BROWN
SECTION G AREA 1 PARCEL 'D 1'
COLUMBIA

HOWARD CO., MD. ELEC. DIST. #6
SCALE: AS SHOWN DATE: REV. 9-20-85
SHT 4 OF 5 DATE: 2-7-86

WRS

WILLIAM R. SUDECK & ASSOCIATES, INC.
Consulting Engineers & Land Surveyors

112 South Main Street • Bel Air, Maryland 21014

301-879-4353 301-838-5833

William R. Sudeck

William R. Sudeck

Richard Alter

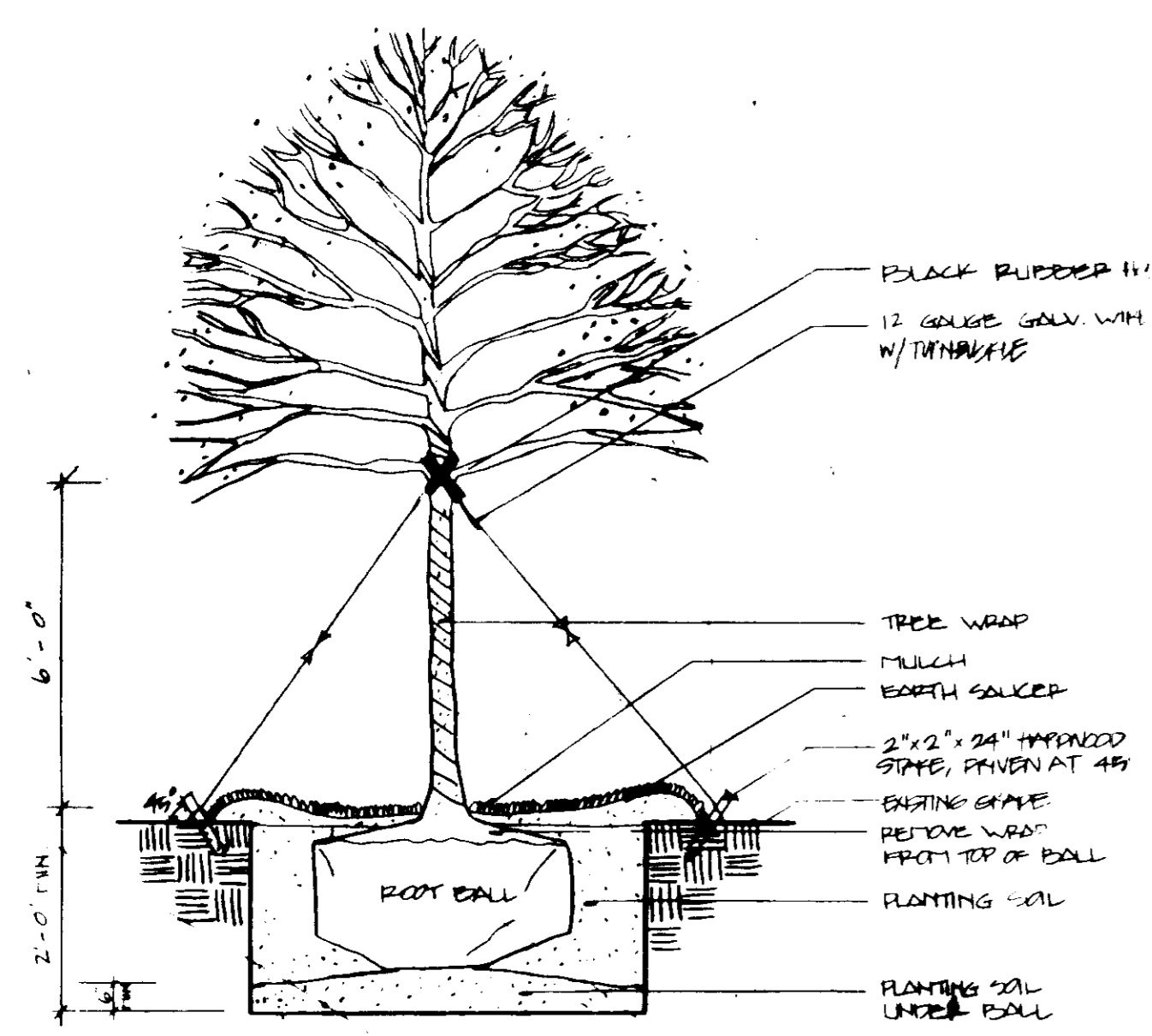
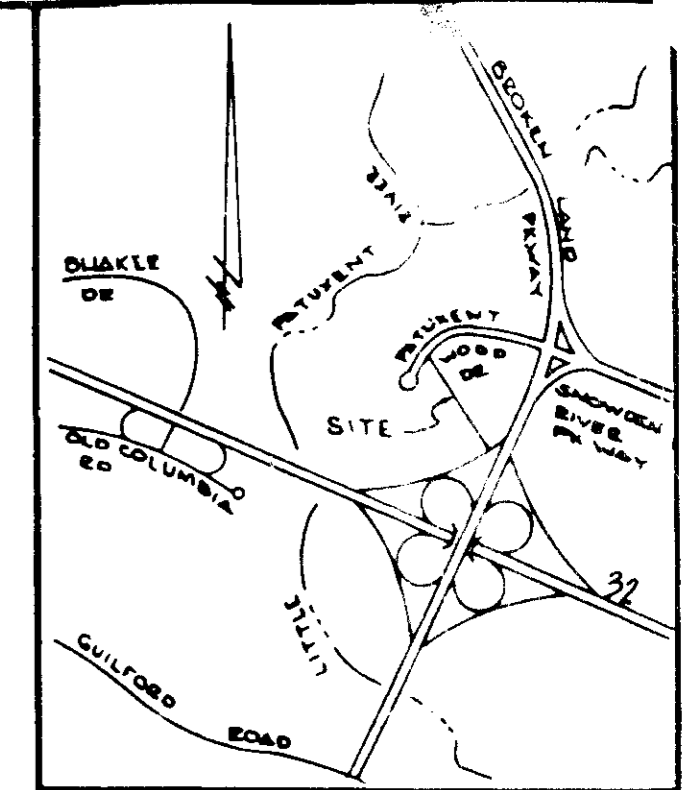
Richard Alter

PROFILES & DETAILS

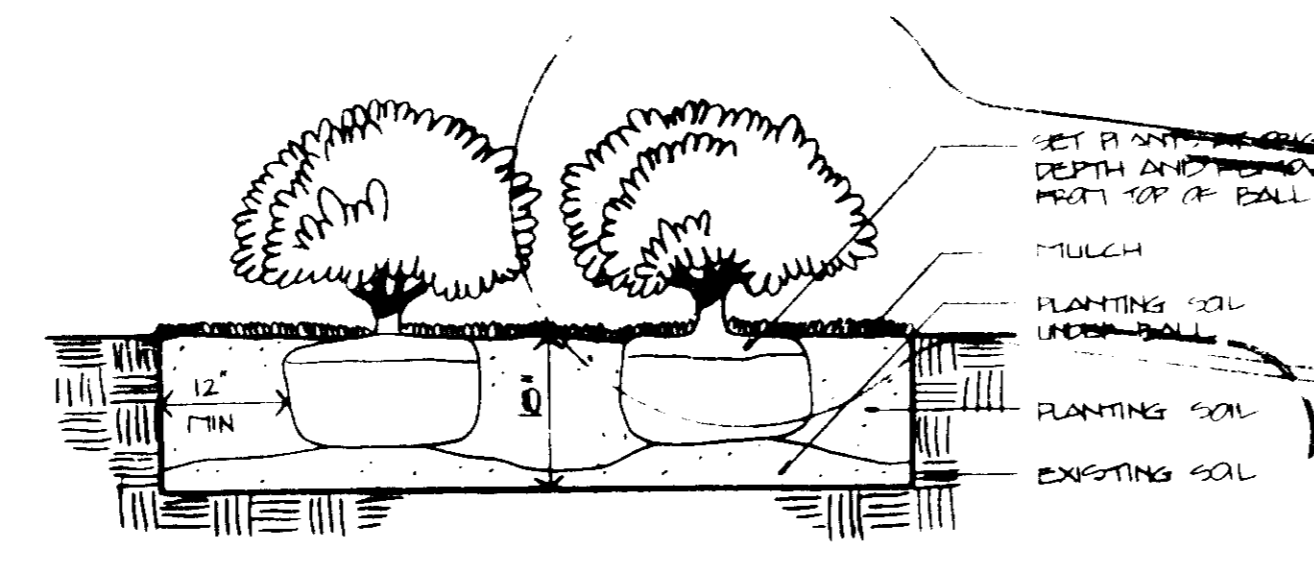
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COLUMBIA

HOWARD CO., MD. ELEC. DIST. #6
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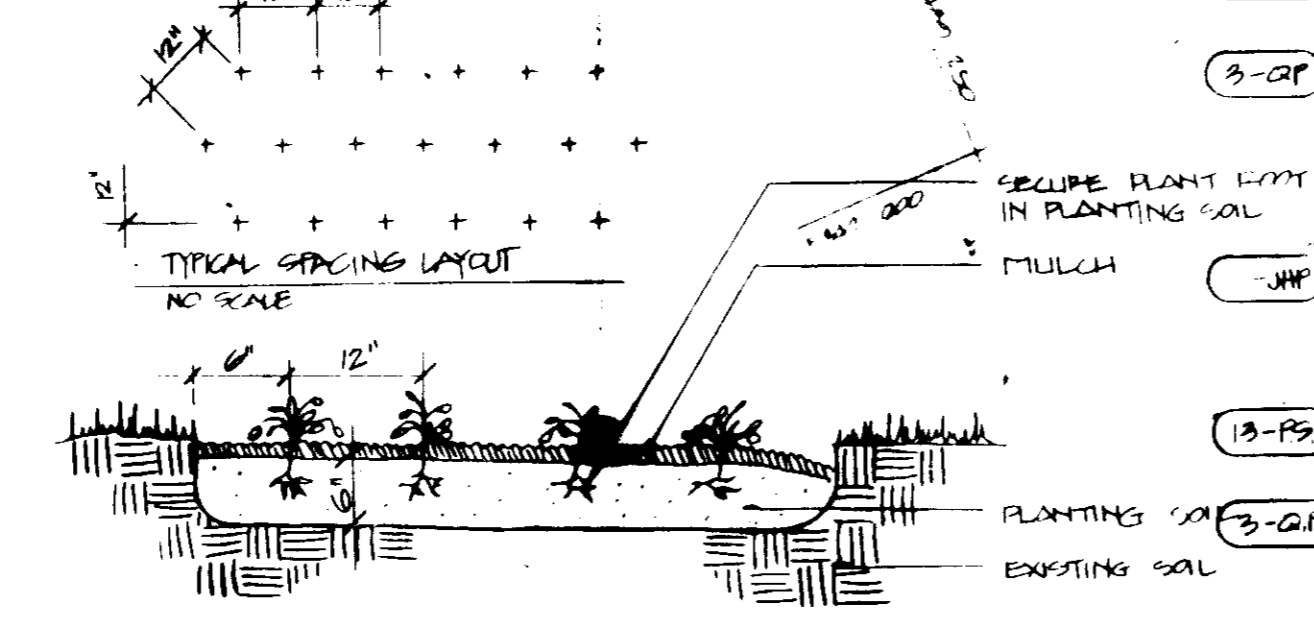
SDP-86-166



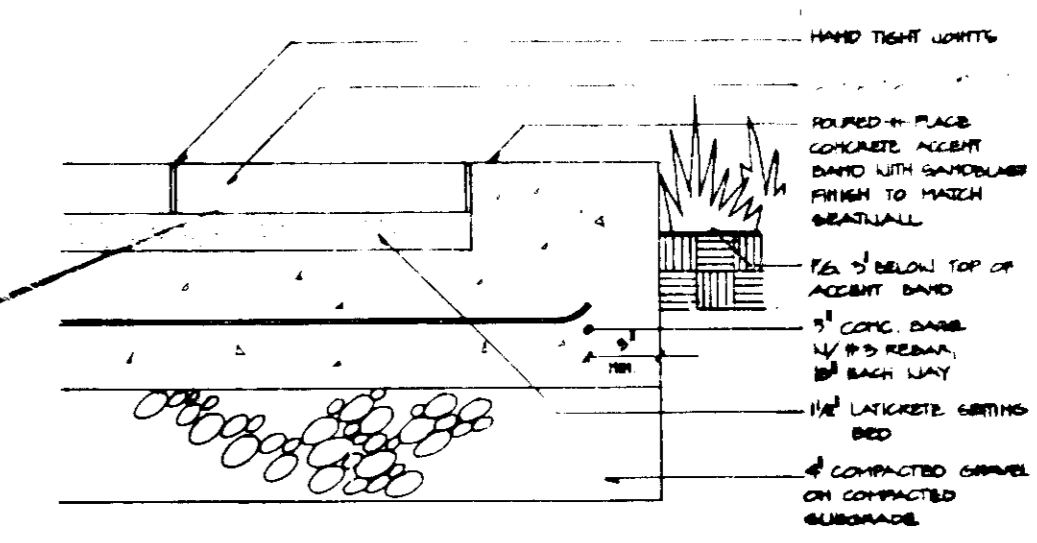
A TREE PLANTING DETAIL
NOT TO SCALE



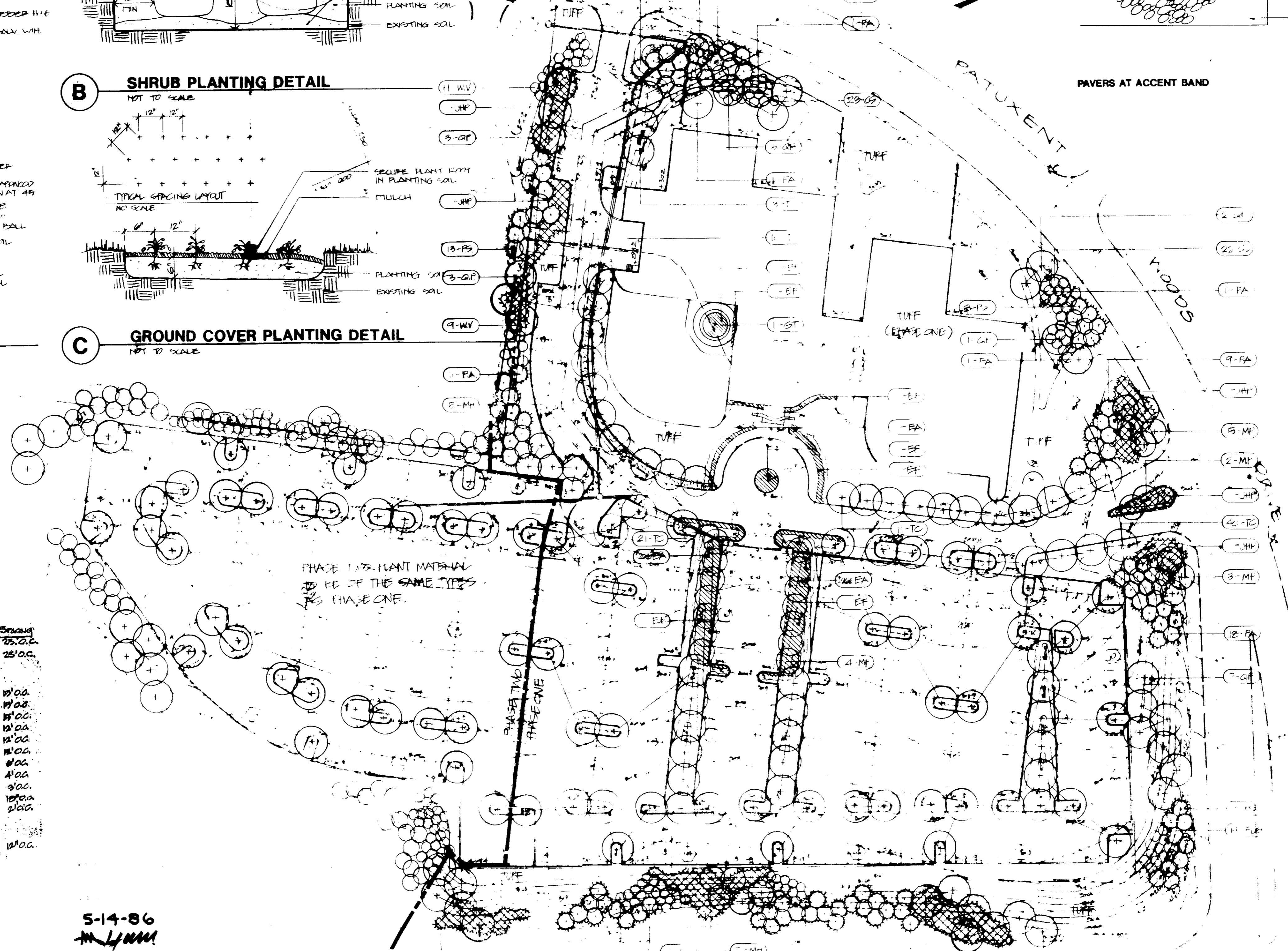
B SHRUB PLANTING DETAIL
NOT TO SCALE



C GROUND COVER PLANTING DETAIL
NOT TO SCALE



PAVERS AT ACCENT BAND



PLANT LIST

QTY	SYMBOL	COMMON NAME	SIZE	ROOT	STATUS
1	1	WINDY PINE	2 1/2\"/>		

NOTES:
 1. QUANTITIES TO BE DETERMINED BY A LANDSCAPE ARCHITECT.
 2. ALL PLANTS TO BE PLANTED AT THE TIME OF CONSTRUCTION.
 3. ALL PLANTS TO BE PLANTED AT THE TIME OF CONSTRUCTION.
 4. ALL PLANTS TO BE PLANTED AT THE TIME OF CONSTRUCTION.

APPROVED FOR THE PUBLIC WORKS AND PUBLIC SANITATION SERVICES
 HOWARD COUNTY HEALTH DEPARTMENT
 6-16-86
 COUNTY HEALTH OFFICER
 APPROVED FOR THE PUBLIC WORKS AND PUBLIC SANITATION SERVICES
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 6-17-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

5-14-86
 APPROVED FOR THE HOWARD SOIL CONSERVATION DISTRICT
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS
 SIGNATURE: [Signature]
 THE UNITED STATES SOIL CONSERVATION SERVICE

ADDRESS CHART

BUILDING NO.	STREET ADDRESS
1	2125 PATUXENT WOODS DRIVE

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 995-1670

HELLMUTH, OBATA KASSABAUM, P.C.
 PLANNING, ARCHITECTURE & INTERIORS
 WASHINGTON, D.C.
 JANUARY 21, 1986

DESIGN HOW DRAWN HOW CHECK HOW REVISIONS

LANDSCAPE PLAN
 FOR
 FOUR STORY OFFICE BUILDING
 VILLAGE OF OWEN BROWN
 SECTION G AREA 1 PARCEL D
 COLUMBIA
 HOWARD CO, MD. ELECT DIST #C
 SCALE: AS SHOWN DATE: JAN. 4-86
 SHT 5 OF 5
 SDP-86-166