

**CONTOUR LEGEND:**

- Existing Contours
- Proposed Contours by Others (Under Construction March, 1986)
- Proposed Contours

**SITE ANALYSIS**

- a. Area of property: 1.60 acres ±
- b. Proposed use: Telephone Switching Exchange
- c. Zoning: M-1
- d. Building coverage: 11,439 S.F. (16.41%)
- e. Area of parking lot: 8,316 S.F.
- f. Area and percentage of landscaped islands within the parking lot: 546 S.F. (6.57%)
- g. Open space (green area) to remain: 1.15 acres ±
- h. Number of employees: 4
- i. Parking spaces required: 4
- j. Parking spaces provided: 6
- k. Tax Map No. 36

**GENERAL NOTES**

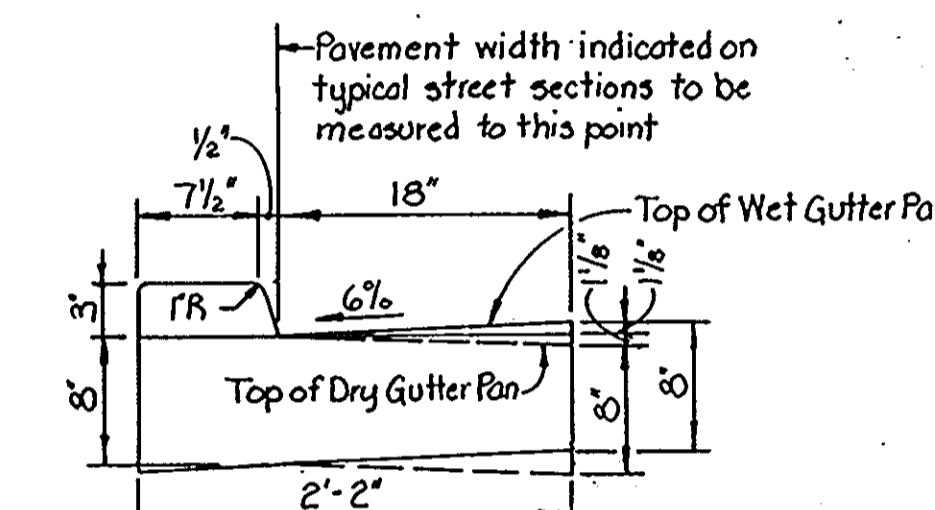
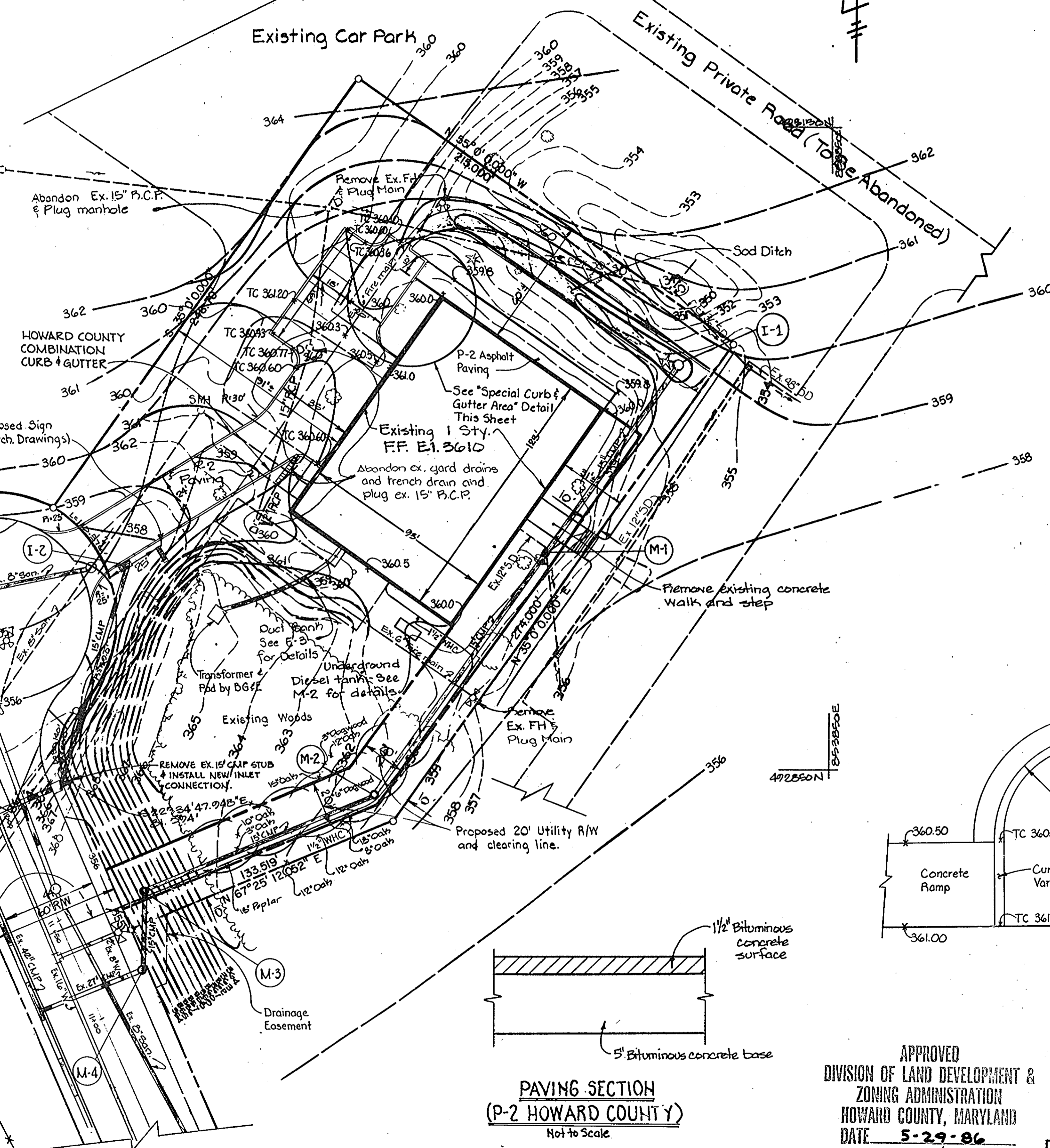
1. Contractor to verify invert elevation of the existing 12" RCP roof drain leader prior to beginning any other storm drain construction.
2. All existing utilities on this site, with the exception of the existing sewer house connection, including storm drains, are to be abandoned at the property line by others. All manholes, inlets, fire hydrants, etc. shall be removed to a point 30 inches below finished grade, and all pipes connected thereto shall be plugged with an 8-inch minimum thickness of brick and mortar. Any remaining manhole or inlet floor slabs shall be broken up and the structure shall be backfilled with suitable material.
3. Where existing utility lines are in conflict with proposed work, the existing line shall be removed to the extent necessary and the remaining openings plugged with an 8-inch minimum thickness of brick and mortar.
4. All existing bituminous paving west of the building to be removed to subgrade and disposed of off-site.

**VICINITY MAP** Scale 1"=2000'

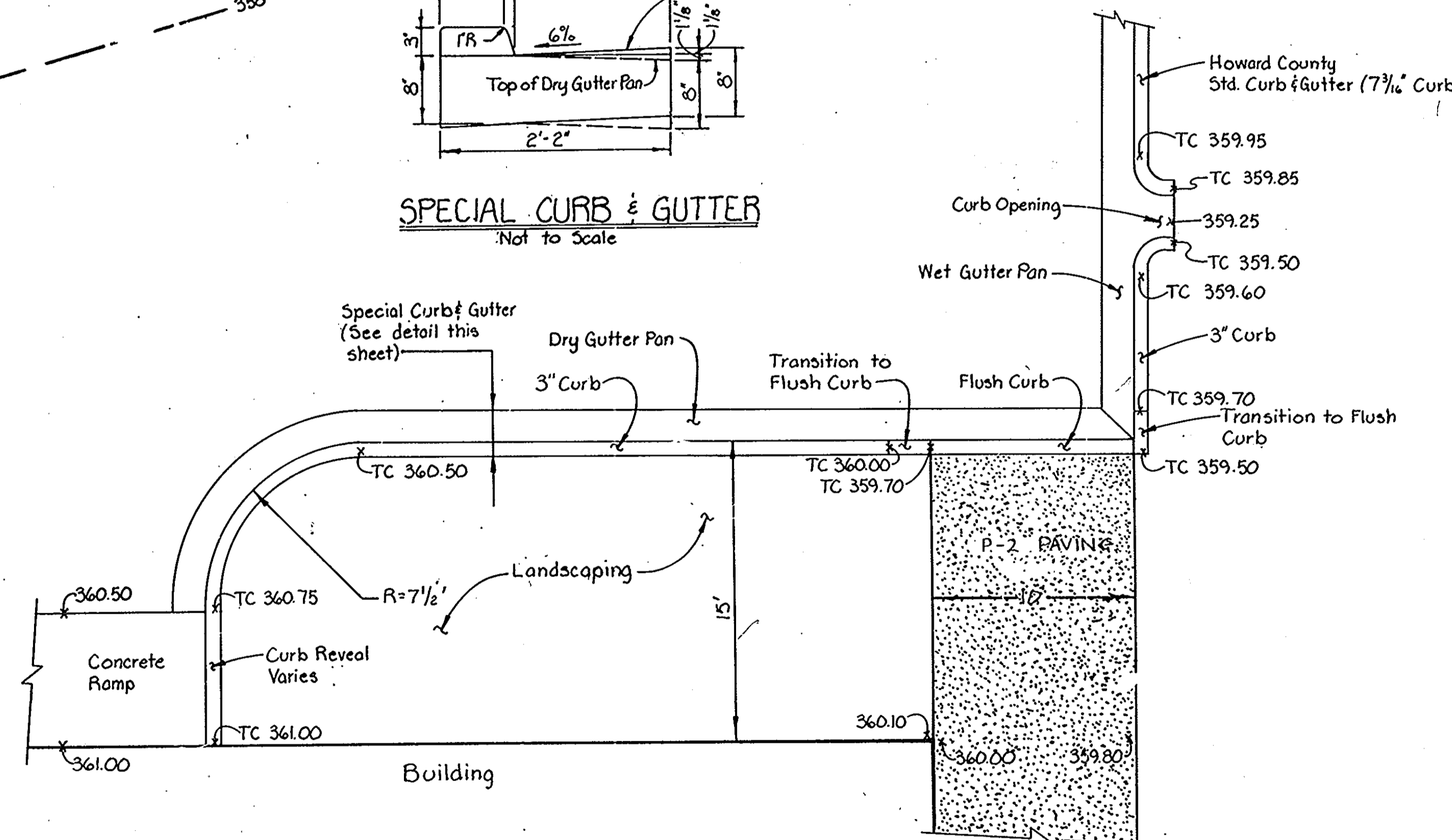
All Property Shown This Sheet Is Owned By:  
The Howard Research & Development Corp.  
The Rouse Company Building  
Columbia, Md. 21044

Contract Purchaser Parcel B:  
C&P Telephone Company  
Constellation Place  
1 E. Pratt Street  
Baltimore, Md. 21202

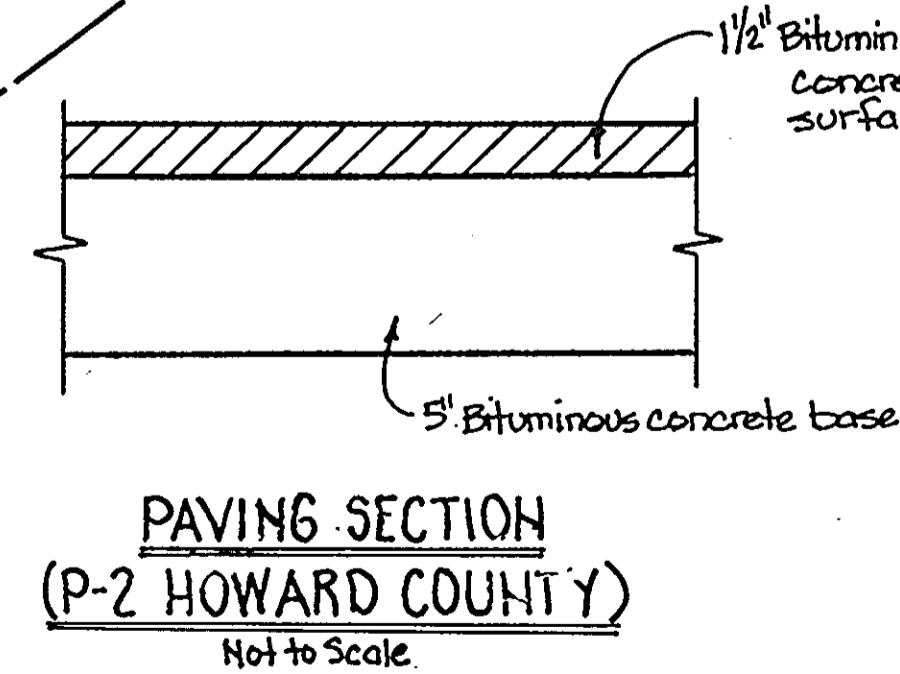
PROPOSED PUBLIC ROAD & UTILITIES  
(ALEXANDER BELL DRIVE)  
BY OTHERS  
(CONTRACT NOS. F-86-127  
& 24-1439-D)



**SPECIAL CURB & GUTTER**  
Not to Scale



**SPECIAL CURB & GUTTER AREA**  
Scale: 1"=5'



**PAVING SECTION**  
(P-2 HOWARD COUNTY)  
Not to Scale

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 5-29-86

ADDRESS CHART		SUBDIVISION NAME:		SECT./AREA		LOT/PARCEL NO.	
PARCEL NO.	STREET ADDRESS	COLUMBIA GATEWAY					
B	6730 Alexander Bell Dr.	FLAT OR L/F	BLOCK	TAX / ZONE	MAP	BLK. DIST	CENSUS TR.
		6706	24	M-1	36	6	606502
		WATER CODE: E06		SEWER CODE: 3390000			

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
Date: 7/1/86  
U.S. Soil Conservation Service  
This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Date: 7/1/86  
Howard Soil Conservation District

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

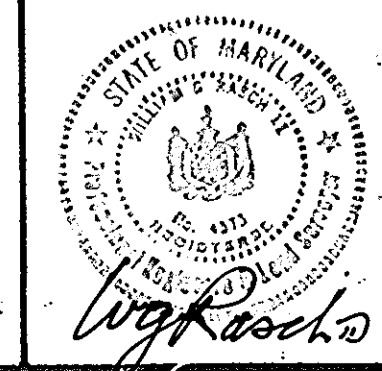
APPROVED: For public water, public sewerage, storm drainage, and roads.  
Howard County Department of Public Works  
Director: [Signature] 7-3-86  
Date: 7-3-86  
Chief, Bureau of Engineering: [Signature] 7-9-86  
Date: 7-9-86

APPROVED: For public water and public sewerage systems.  
Howard County Health Department  
County Health Officer: [Signature] 7-8-86  
Date: 7-8-86

APPROVED: Howard County Office of Planning and Zoning  
Chief, Division of Land Development and Zoning Administration: [Signature] 7-10-86  
Date: 7-10-86  
Planning Director: [Signature]

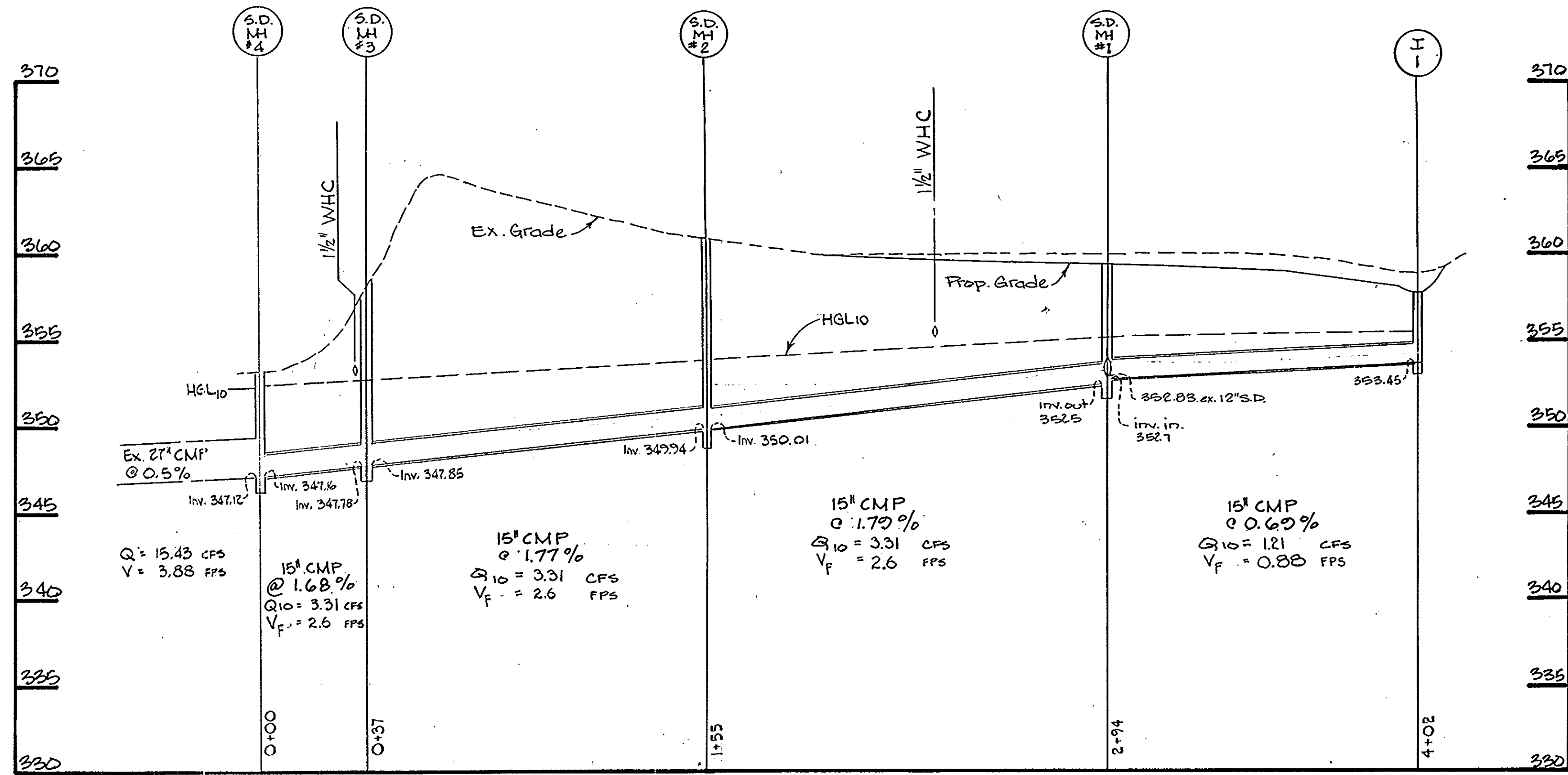
DEVELOPER'S CERTIFICATION  
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment erosion before beginning the project.  
A. RANDOLPH KANEKO #6557 2/13/86  
Date: 2/13/86

ENGINEER'S CERTIFICATION  
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
WILLIAM G. RESCH II #4575 6/10/86  
Date: 6/10/86



SITE PLAN  
**C & P OF MARYLAND**  
**SNOWDEN RIVER O.R.M.**  
TAX AND ZONING MAP 36 SIXTH ELECTION DISTRICT SCALE: 1"=30'  
PARCEL NO. B HOWARD COUNTY, MARYLAND FEBRUARY 13, 1986

SHEET 1 OF 5  
DESIGNED BY: L.B.B.  
DRAWN BY: P.S.  
CHECKED BY: W.G.R.

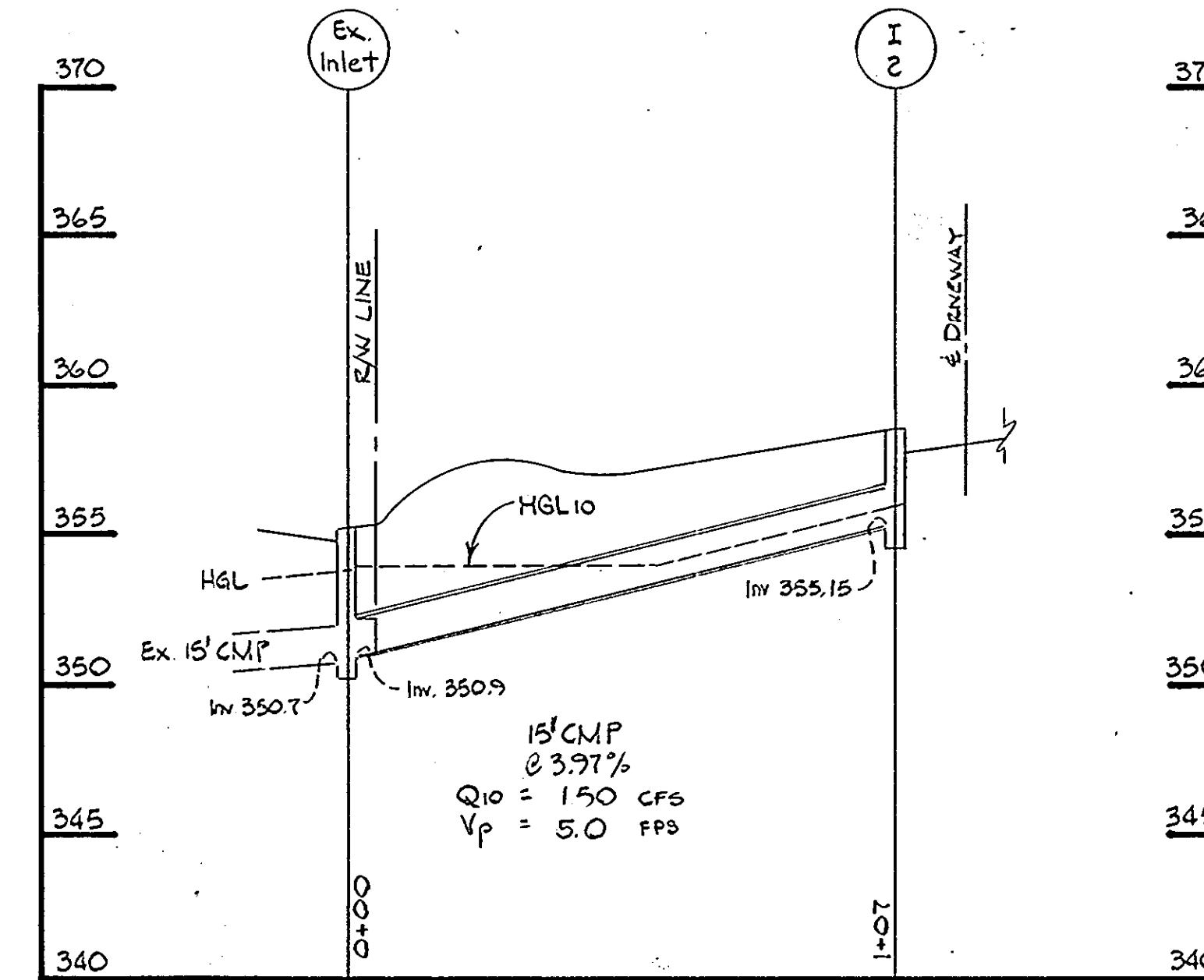


**STORM DRAIN PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 5'  
 V<sub>F</sub> = PIPE-FULL VELOCITY

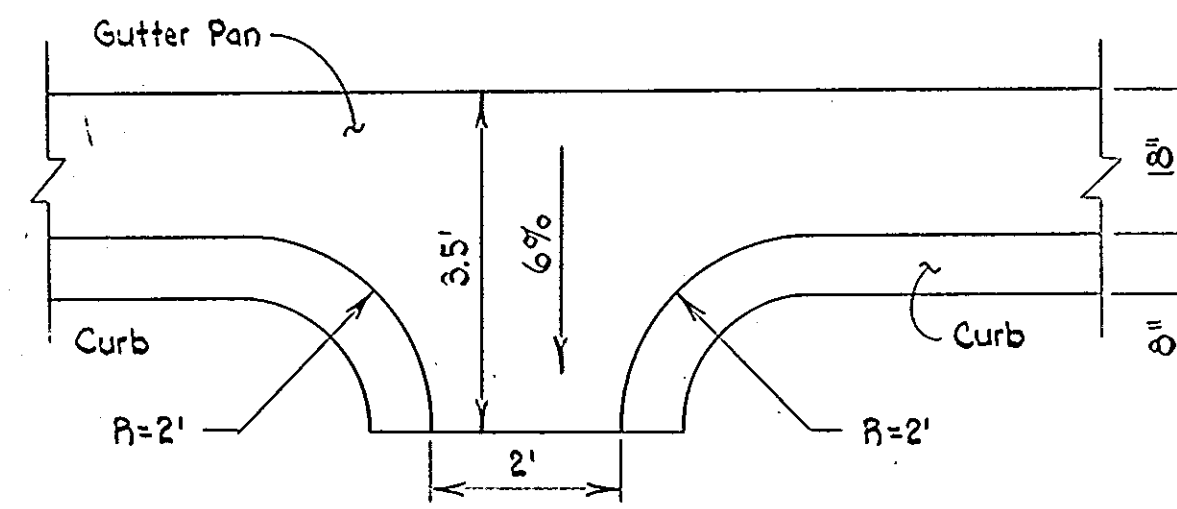
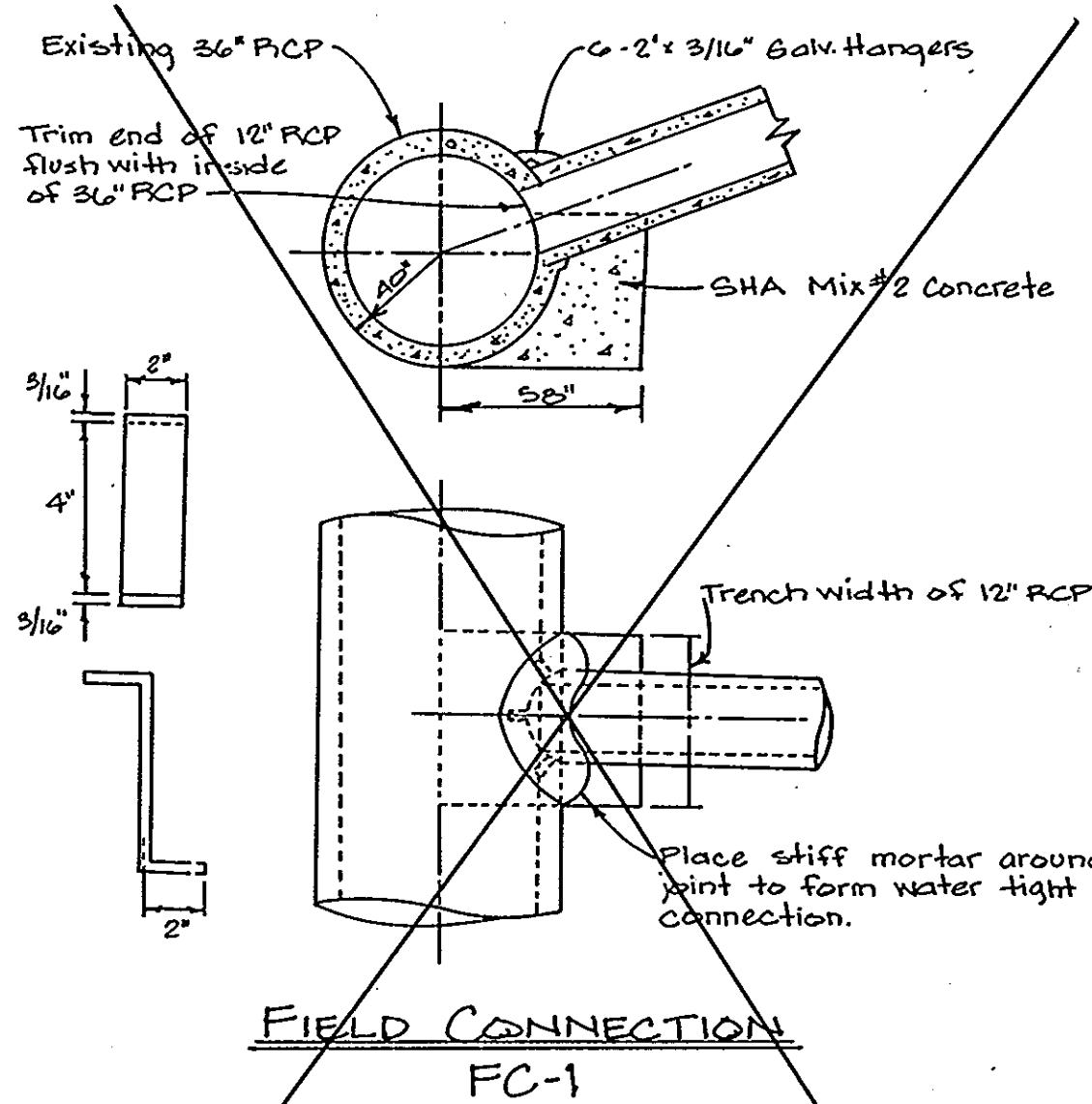
STRUCTURE SCHEDULE					
No.	TYPE	INN. IN	INN. OUT	TOP EL.	STD. NO.
I-1	Yard Inlet	—	353.45	357.80	SD 4-14
M-1	4' Brick MH	352.70	352.50	359.40	G 5.01
M-2	4' Brick MH	352.01	349.94	360.95	G 5.01
M-3	4' Brick MH	347.85	347.78	358.00	G 5.01
M-4	4' Brick MH	347.16	347.12	353.20	G 5.01
I-2	A-S Inlet	—	355.15	358.4	

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 Columbia, Md. 21044

Contract Purchaser Parcel B:  
 C&P Telephone Company  
 Constellation Place  
 18 Pratt Street  
 Baltimore, Md. 21202



**STORM DRAIN PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 5'  
 V<sub>P</sub> = PARTIAL DEPTH VELOCITY



**DETAIL OF CURB OPENING**  
 Scale: 1/2" = 1'

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 5-29-86

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
B	6730 Alexander Bell Dr.

PIPE VELOCITIES ON PROFILE					
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL NO.	TAX / ZONE	ELEC. DIST.	CENSUS TR.
COLUMBIA GATEWAY		B	M-1	6	6065.02
PLAT # ORL/F	BLOCK	ZONE	TAX / ZONE	ELEC. DIST.	CENSUS TR.
6766	24	M-1	6	6065.02	
WATER CODE	SEWER CODE				
E06	3390000				

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
 J. Helms / 7-21-86  
 US/Soil Conservation Service Date  
 This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Stephen L. Finken / 7/1/86  
 Howard Soil Conservation District Date

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301 / 837-0194

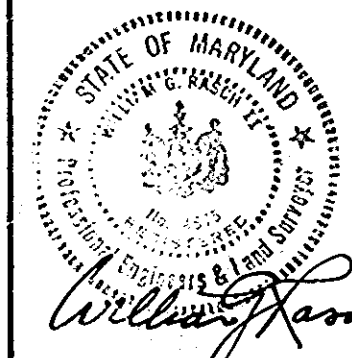
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 7-7-86  
 CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 7-2-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 7-9-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 7-10-86  
 PLANNING DIRECTOR: [Signature] DATE: 7-10-86

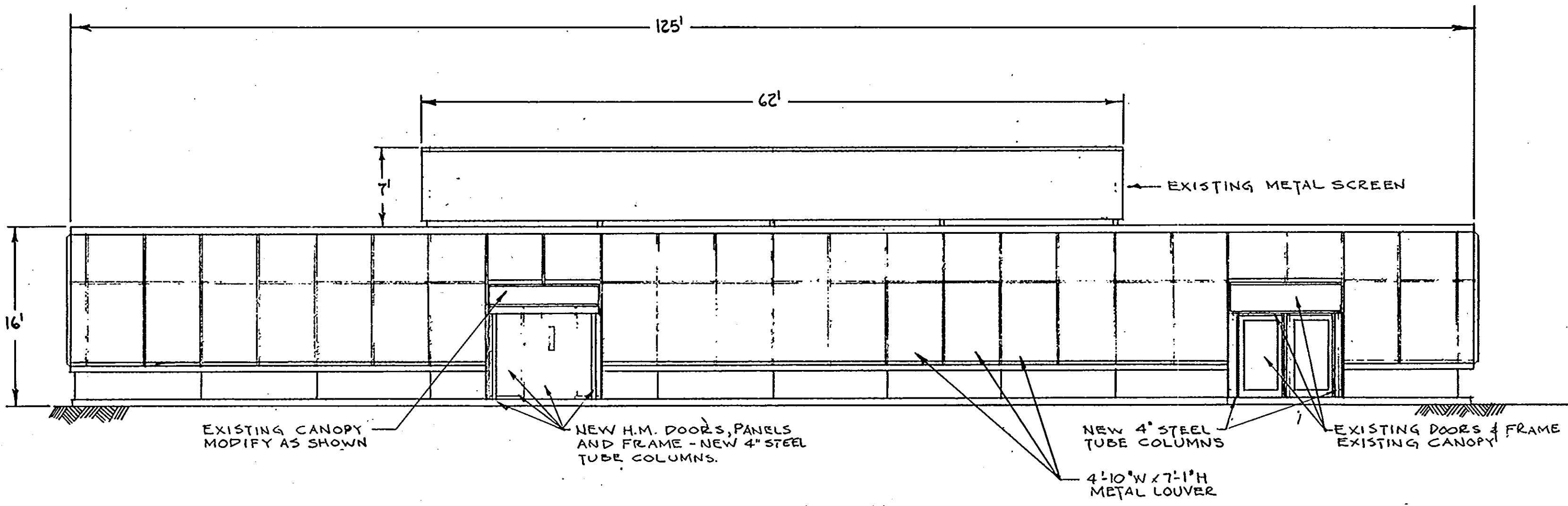
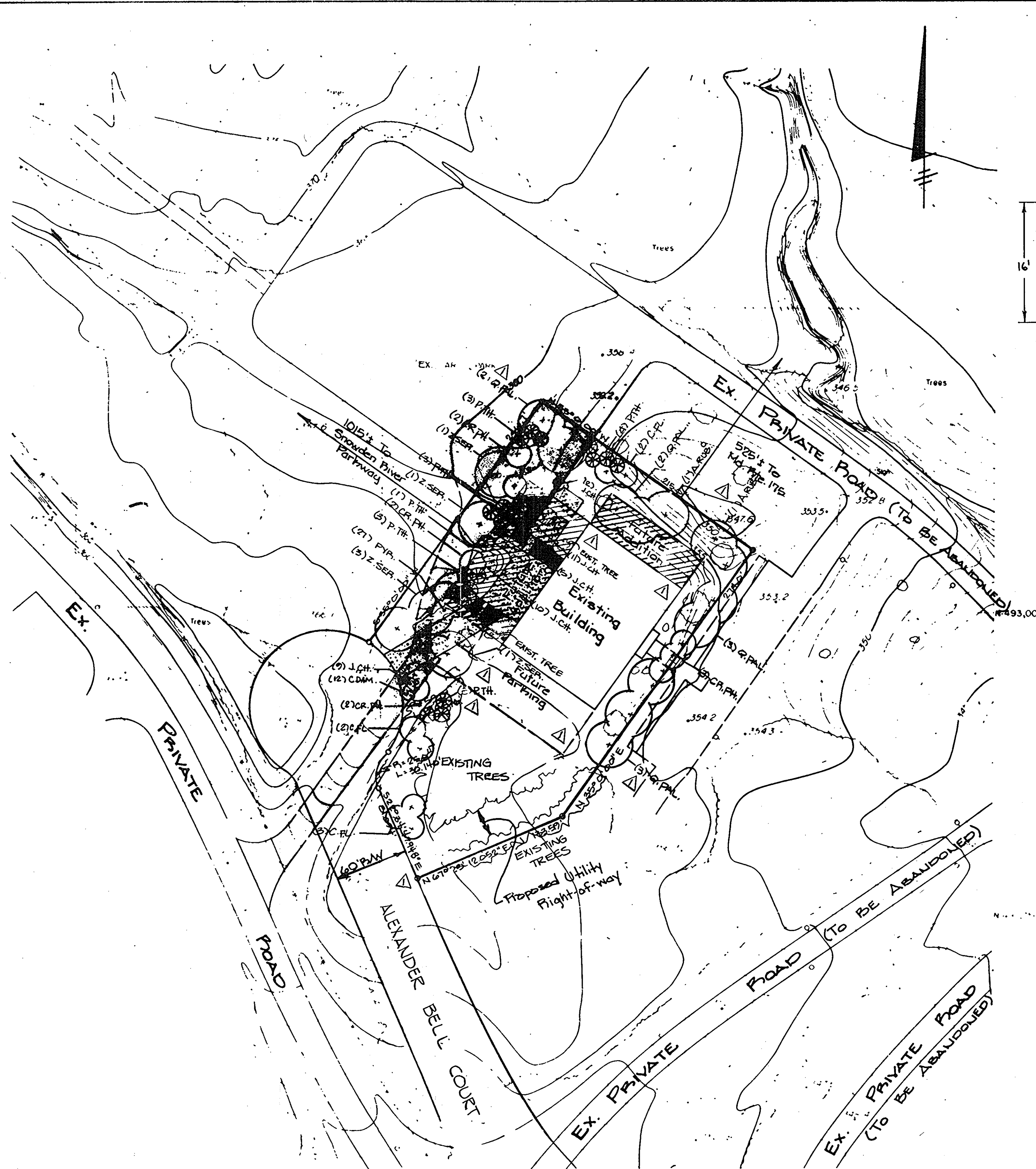
DEVELOPER'S CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
 A. RANDOLPH KANEKO 3/13/86 DATE

ENGINEER'S CERTIFICATION  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 WILLIAM G. RASCH II 6/16/86 DATE



STORM DRAIN PROFILES & DETAILS  
**C & P OF MARYLAND**  
**SNOWDEN RIVER O.R.M.**  
 TAX AND ZONING MAP 36 PARCEL NO. B  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' FEBRUARY 13, 1986

SHEET 2 OF 5  
 DESIGNED BY: L.B.B.  
 DRAWN BY: P.S.  
 CHECKED BY: W.G.R.



WEST ELEVATION  
SCALE 1/8" = 1'-0"

All Property Shown This Sheet Is Owned By:  
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The Rouse Company Building  
Columbia, Md. 21044

Contract Purchaser:  
C&P Telephone Company  
Constellation Place  
1 E. Pratt Street  
Baltimore, Md. 21202

PLANT LIST

ABBR.	QUANTITY	SIZE	BOTANICAL NAME	COMMON NAME
<b>Shrubs:</b>				
C. Dam.	12	18-24" Container	Cotoneaster Dammeri 'Skogholm'	Christmas Carpet Cotoneaster
J. Ch.	47	18-24" Container	Juniperus Ch. Pfizeriana 'Compacta'	Compact Pfitzer Juniper
Pyr.	27	18-24" Container	Pyracantha Coccinea 'Rutgers'	Rutgers Firethorn
<b>Trees:</b>				
A. Rub.	2	2 1/2" Cal. B&B	Acer Rubrum	Red Maple
C. Fl.	7	2-2 1/2" Cal. B&B	Cornus Florida	Flowering Dogwood
Cr. Ph.	9	2-2 1/2" Cal. B&B	Crataegus Phoenopyrum	Washington Hawthorn
P. Th.	17	6-8" B&B	Pinus Thunbergii	Japanese Black Pine
Q. Pal.	10	2 1/2" Cal. B&B	Quercus Palustris	Pin Oak
Z. Ser.	6	2 1/2" Cal. B&B	Zelkova Serrata	Zelkova

Specification:  
Planting: Shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metro Area" by LCAW and MSLA. One year warranty.  
Seeding: Shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metro Area" by LCAW and MSLA. All disturbed areas not to be paved or planted shall be seeded.

TREE TABULATION

SMALL TREES	8
PINES	7
LARGE TREES	18
TOTAL TREES	33

LANDSCAPING PLAN

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-29-86

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
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SUBDIVISION NAME		SECT./AREA	LOT/PARCEL NO.
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PLAT # OR L/F	BLOCK	TAX / ZONE	ELEC. DIST.
6706	24	MAP 26	6
WATER CODE		SEWER CODE	
E06		3390000	

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
J. Helms 7/1/86  
U.S. Soil Conservation Service Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Stephen L. Fisher 7/1/86  
Howard Soil Conservation District Date

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1025 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
HOWARD COUNTY DEPT OF PUBLIC WORKS  
Director: *Mark Nemy* 7-7-86  
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
County Health Officer: *William Byrne* 7-8-86  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
Chief, Division of Land Development and Zoning Administration: *John W. Anderson* 7-10-86  
DATE

PLANNING DIRECTOR: *John W. Anderson* 7-10-86  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
Chief, Division of Land Development and Zoning Administration: *John W. Anderson* 7-10-86  
DATE

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*A. Randolph Kaneko* 2/13/86  
A. RANDOLPH KANEKO \*6557 DATE

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*William G. Rasch II* 2/13/86  
WILLIAM G. RASCH II NO. 4575 DATE

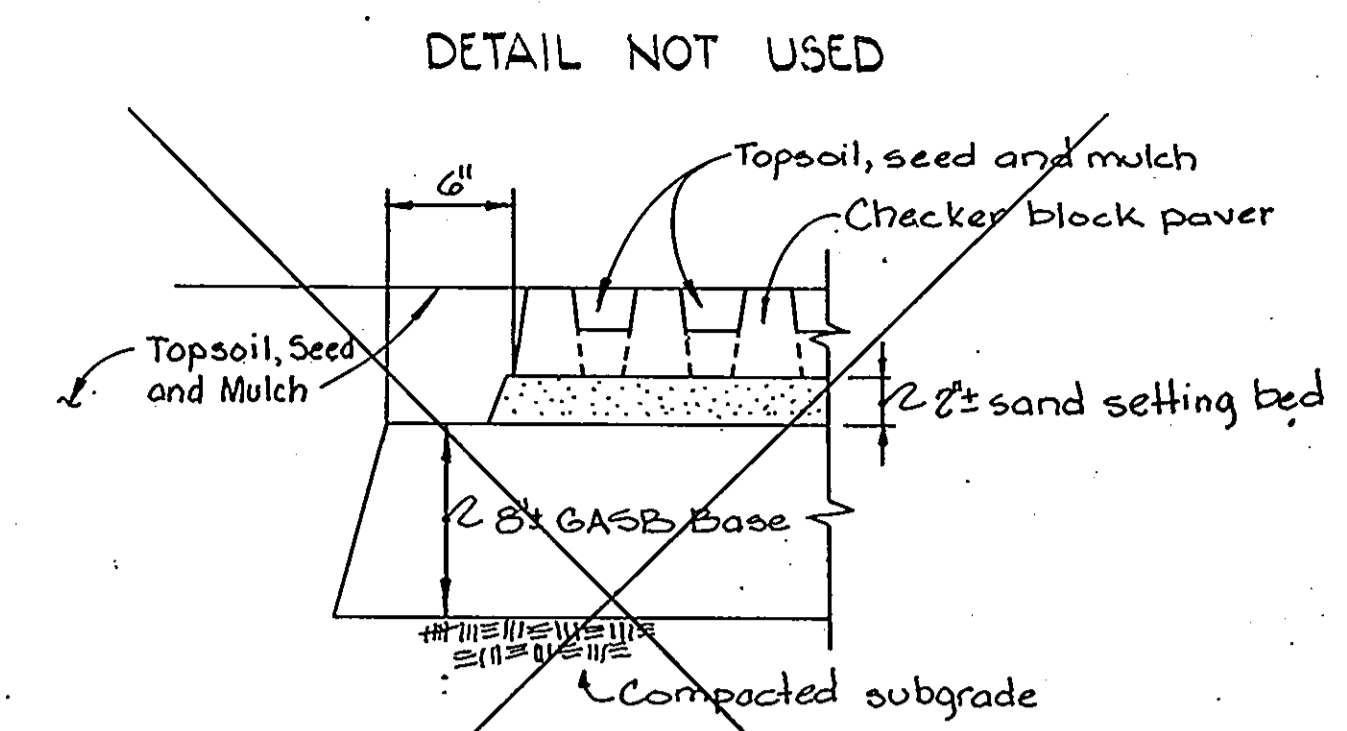
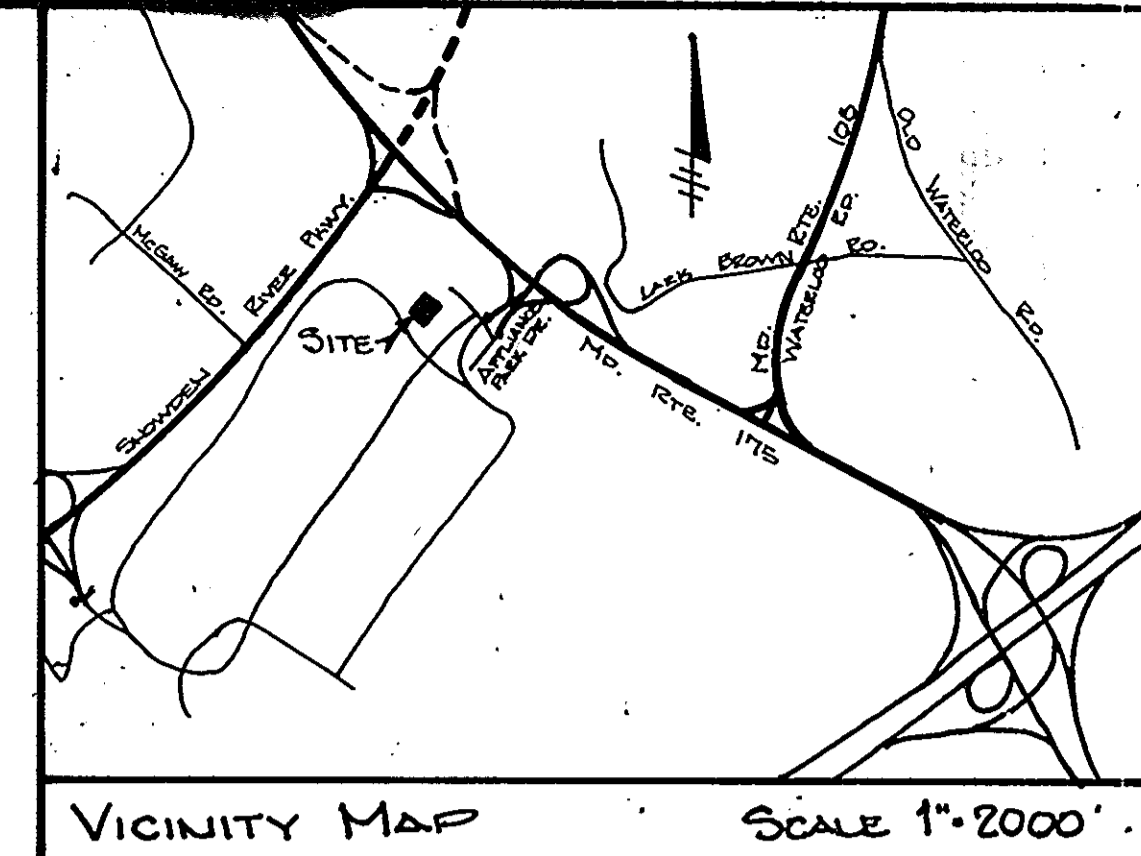
LANDSCAPING PLAN & BUILDING ELEVATION  
C & P OF MARYLAND  
SNOWDEN RIVER O.R.M.  
TAX AND ZONING MAP 36 PARCEL NO. B  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' FEBRUARY 13, 1986

SHEET 3 OF 5  
DESIGNED BY: L.B.B.  
DRAWN BY: P.S.  
CHECKED BY: W.G.R.

SDP-86-189

**CONTOUR LEGEND:**

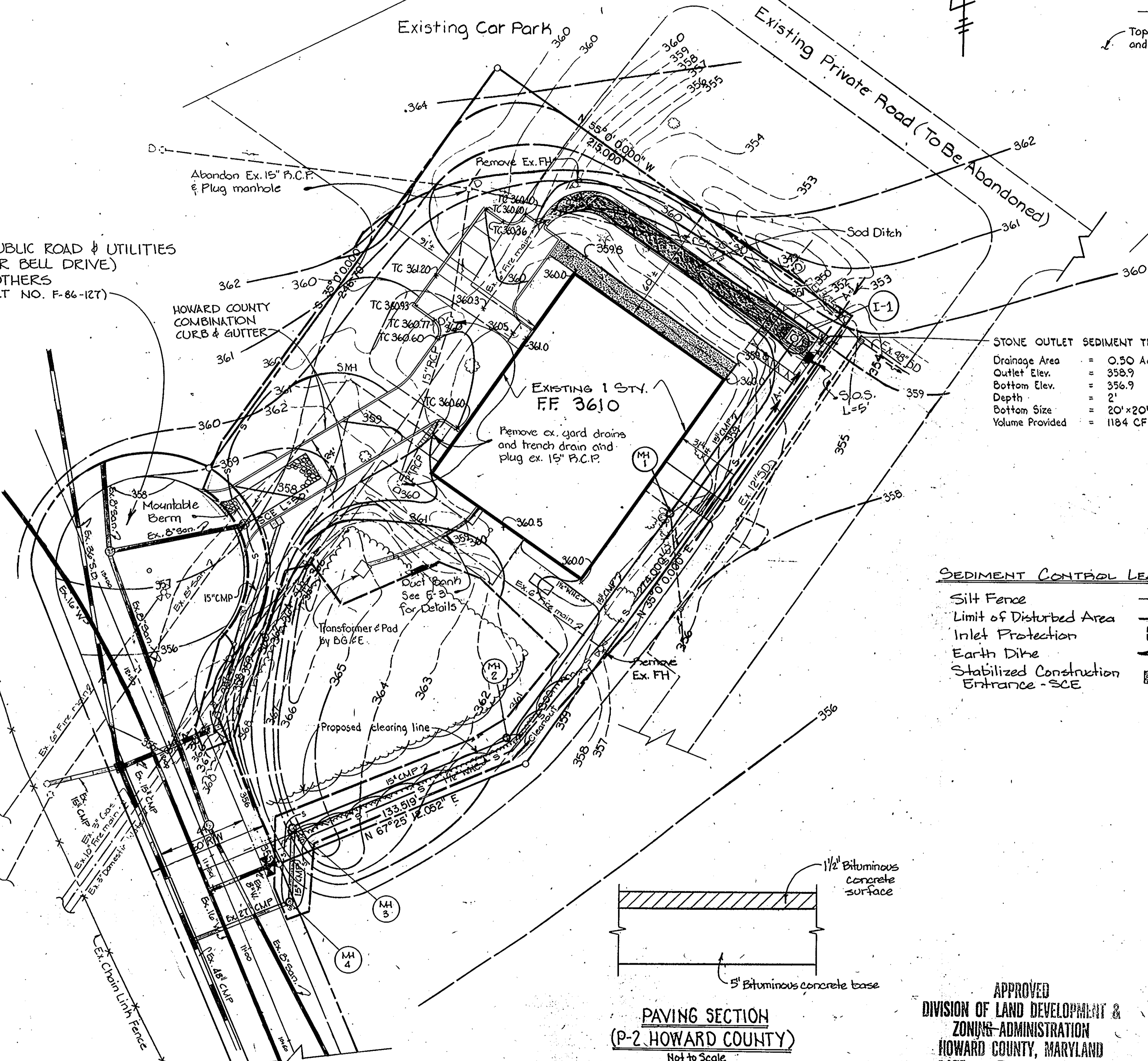
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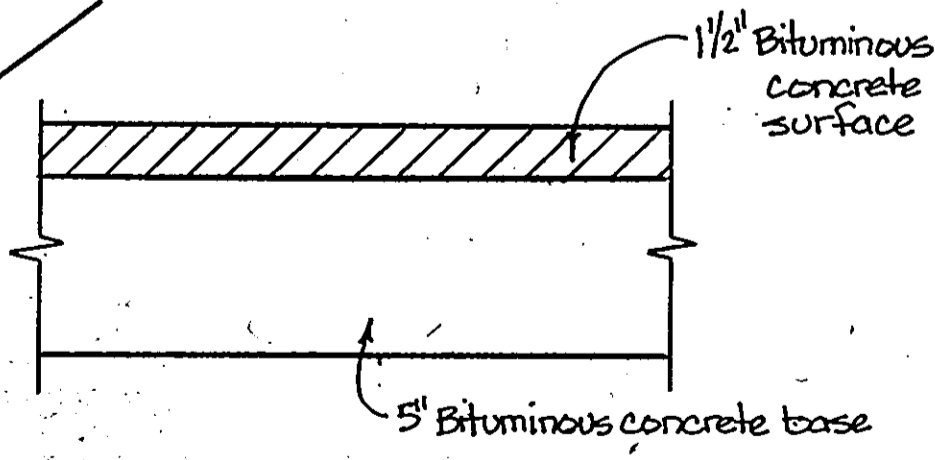
PROPOSED PUBLIC ROAD & UTILITIES  
(ALEXANDER BELL DRIVE)  
BY OTHERS  
(CONTRACT NO. F-86-127)



STONE OUTLET SEDIMENT TRAP  
Drainage Area = 0.50 Ac±  
Outlet Elev. = 358.9  
Bottom Elev. = 356.9  
Depth = 2'  
Bottom Size = 20'x20'  
Volume Provided = 1184 CF

**SEDIMENT CONTROL LEGEND**

- Silt Fence — S — S
- Limit of Disturbed Area — — — — —
- Inlet Protection [ ]
- Earth Dike — A — A —
- Stabilized Construction Entrance - SCE [ ]



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-29-86

Reviewed for Howard County Soil Conservation District and meets technical requirements:  
*J. Holman* 6/1/86  
U.S. Soil Conservation Service Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*William S. Rasch II* 6/1/86  
Howard Soil Conservation District Date

ADDRESS CHART		SUBDIVISION NAME		SECT./AREA	PARCEL NO.
PARCEL NO.	STREET ADDRESS	PLAT OR L.P.	BLOCK	TAX / ZONE MAP	ELEC. DIST. CENSUS TR.
7302 Alexander Bell Dr.		6766	24	36	606502
		WATER CODE	SEWER CODE		
		606	330000		

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202  
301 / 837-0184

APPROVED: For public water, public sewerage, storm drainage, and roads.  
Howard County Department of Public Works  
*David P. Nummy* 7-9-86  
Director Date

APPROVED: For public water and public sewerage systems.  
Howard County Health Department  
*Joeym Baker* 7-8-86  
County Health Officer Date

APPROVED:  
Howard County Office of Planning and Zoning  
*Charles M. Anderson* 7-10-86  
Chief, Division of Land Development and Zoning Administration Date

*William S. Rasch II* 7-10-86  
Planning Director Date

DEVELOPER'S CERTIFICATION  
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*A. Randolph Kaneko* 2/13/86  
A. RANDOLPH KANEKO \*557 Date

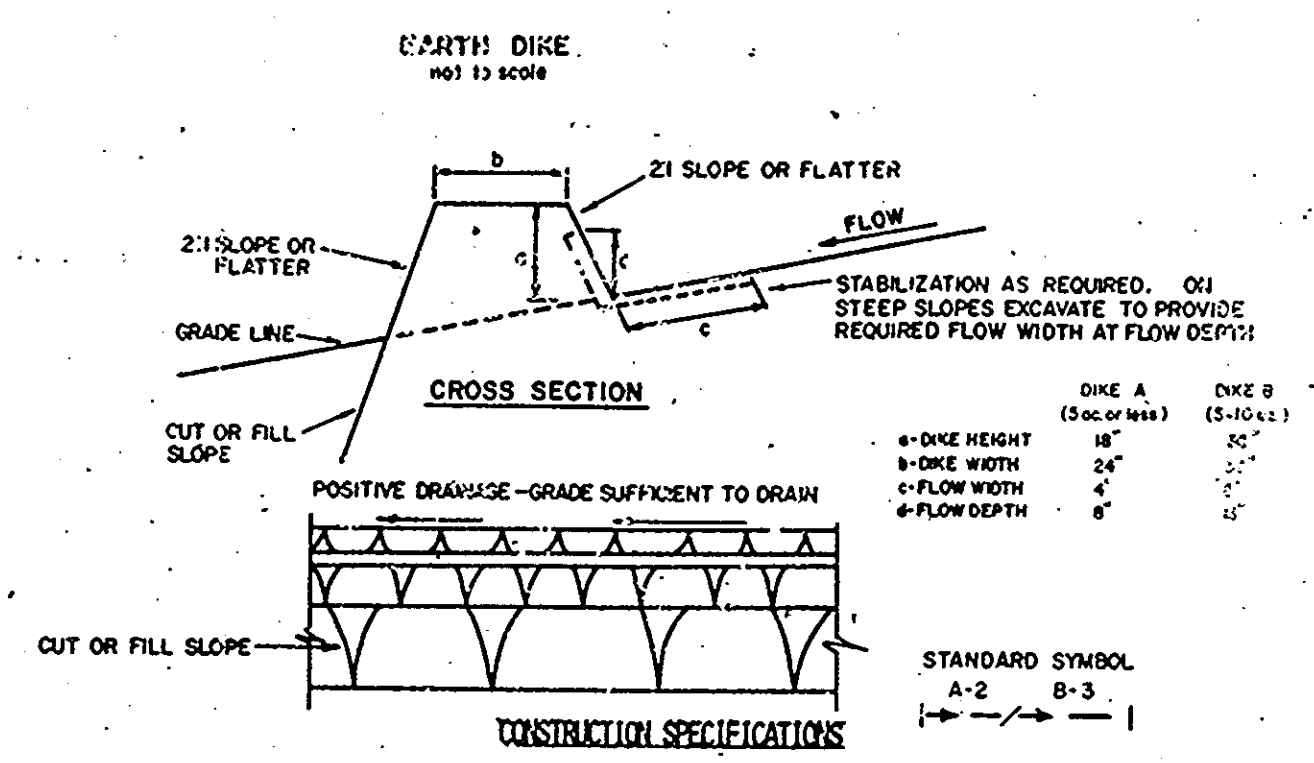
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*William S. Rasch II* 2/13/86  
WILLIAM S. RASCH II \*4575 DATE



SEDIMENT CONTROL PLAN  
C & P OF MARYLAND  
SNOWDEN RIVER O.R.M.  
TAX AND ZONING MAP 36  
SIXTH ELECTION DISTRICT  
SCALE: 1"=30'

PARCEL NO. B  
HOWARD COUNTY, MARYLAND  
FEBRUARY 13, 1986

SHEET 4 OF 5  
DESIGNED BY: L.B.B.  
DRAWN BY: P.S.  
CHECKED BY: W.G.R.  
SDP-86-189



1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.

2. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.

3. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.

4. EARTH DIKES 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 WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.

5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TYPE OF TREATMENT	CHANNEL SLOPE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSTOR 5007 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; STONE	LINED RIP-RAP 4-8"
4	9.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

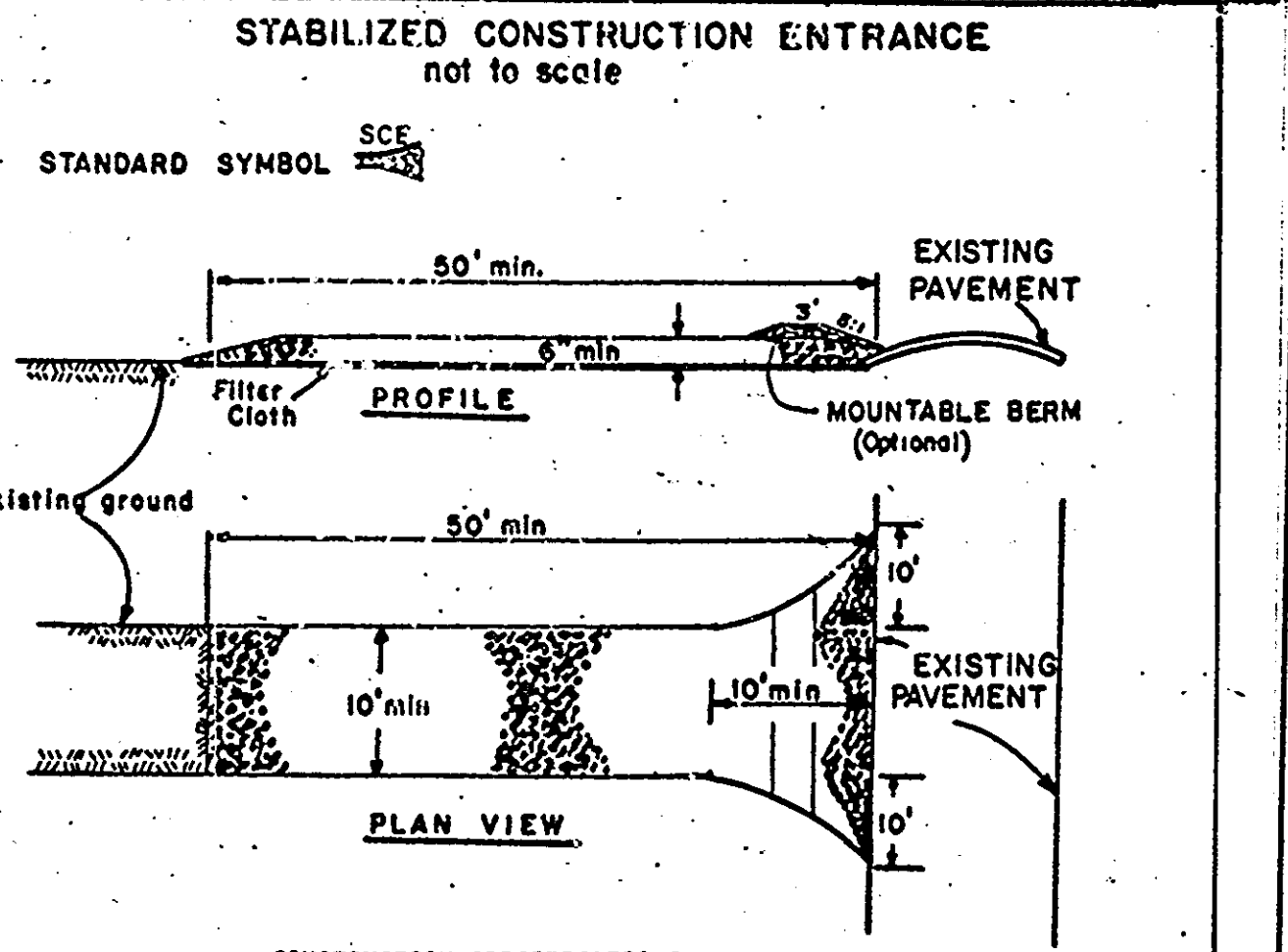
A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.

B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.

C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

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

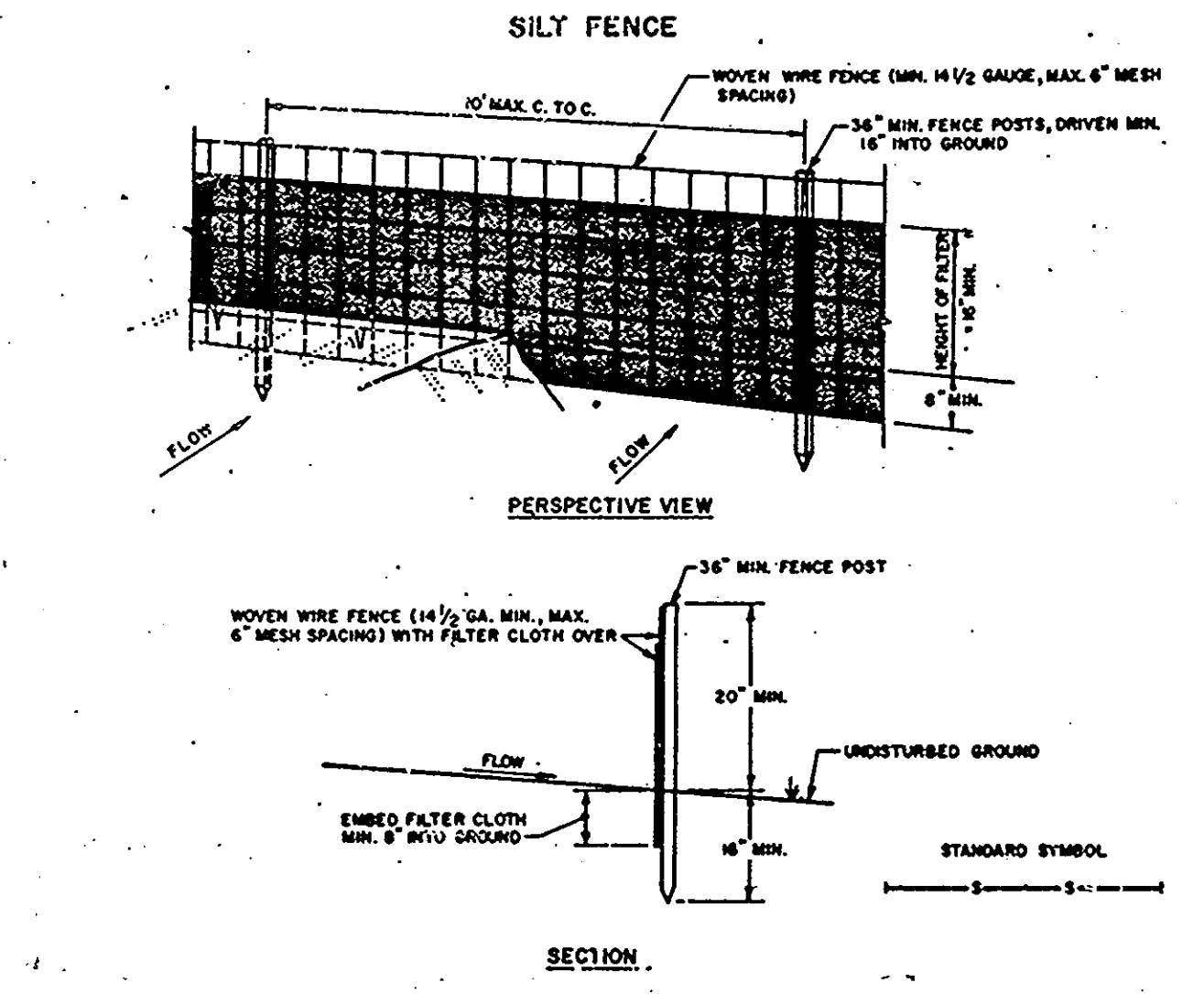
STANDARD DRAWING  
ED-1



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence 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 residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes 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 measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - 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.
  - Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
College Park, Md.

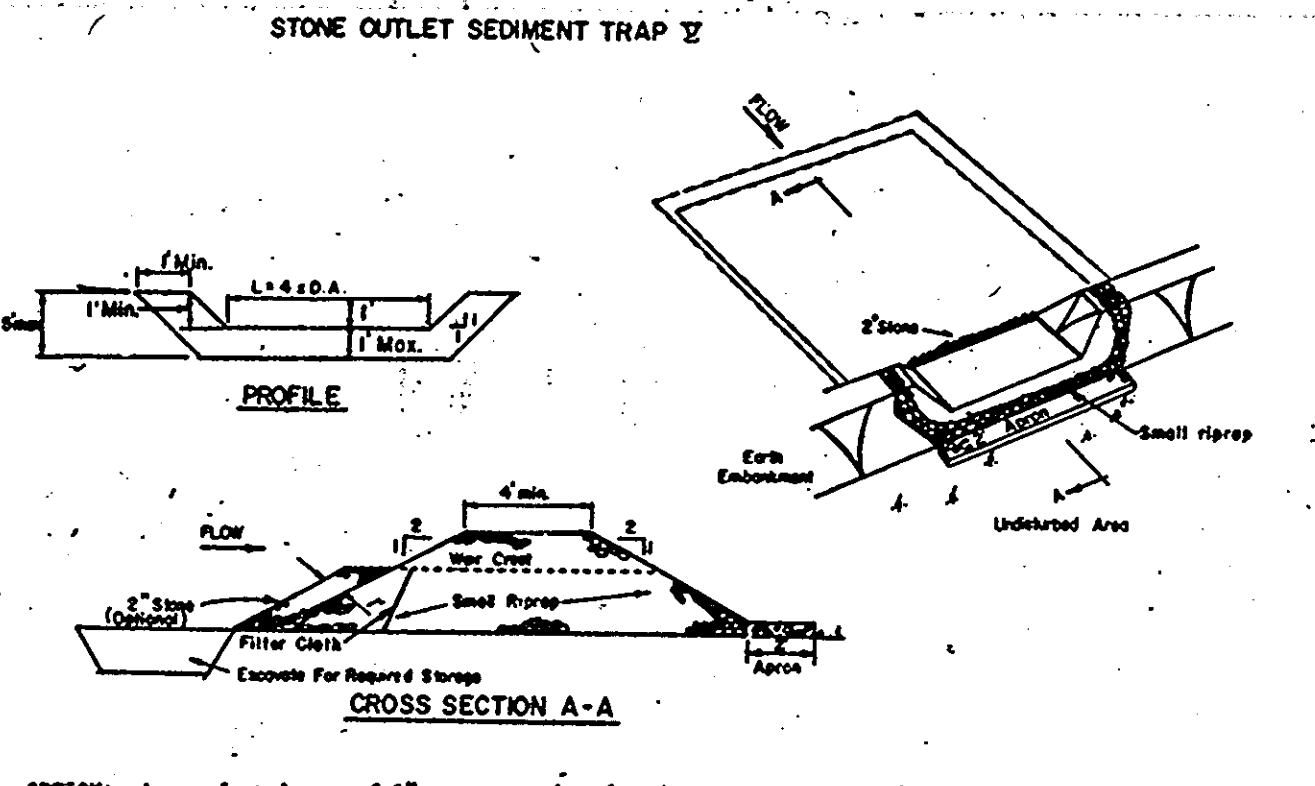
STABILIZED CONSTRUCTION ENTRANCE  
Standard Drawing  
SCE-1



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - 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, 1/2" GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, HURAF, LOW, STABIL-LIMA TREN OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOTEX, ENVIROFENCE, OR APPROVED EQUAL

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

STANDARD DRAWING  
SF-1



- CONSTRUCTION SPECIFICATIONS FOR ST-Y**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap embedded filter cloth in the riprap.
  - 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.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the site stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

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

STONE OUTLET SEDIMENT TRAP  
Standard Drawing  
-ST-Y

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-29-86  
[Signature]

DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT

- SITE PREPARATION**
- Temporary perimeter dikes and silt traps, etc., are to be provided as per this plan prior to grading operations with location adjustments to be made in the field as necessary and to be maintained at the end of the working day. The minimum area practical shall be disturbed for the minimum amount of time possible.
  - Permanent seeding:
    - Seeded preparation: Area to be seeded shall be loose and friable to a depth of at least 3 inches. The top layer shall be loosened by raking, disking, or other acceptable means before seeding occurs. In lieu of soil test results, apply 50 lbs. of dolomitic limestone and 25 lbs. of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3 inches on slopes flatter than 3:1. No attempt should be made to drag any disked area to make the soil surface smooth after disking.
    - Seeding: Apply 5-6 lbs. per 1,000 square feet of Kentucky 31 Tall Fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly with a cyclone seeded drill, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only) on a moist, firm seedbed. Maximum seed depth should be 1/4 inch in clayey soils and 1/2 inch in sandy soils when using other than the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth, until vegetation is firmly established.
    - Mulching: Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 70 to 90 lbs. per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada Thistle, Johnsongrass, and Quackgrass. Spread mulch mechanically or uniformly by hand; mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by peg and twine method, mulch anchoring tool, netting, or liquid mulch binders.
  - Temporary seeding:
 

Lime: 50 lbs. of dolomitic limestone per 1,000 square feet

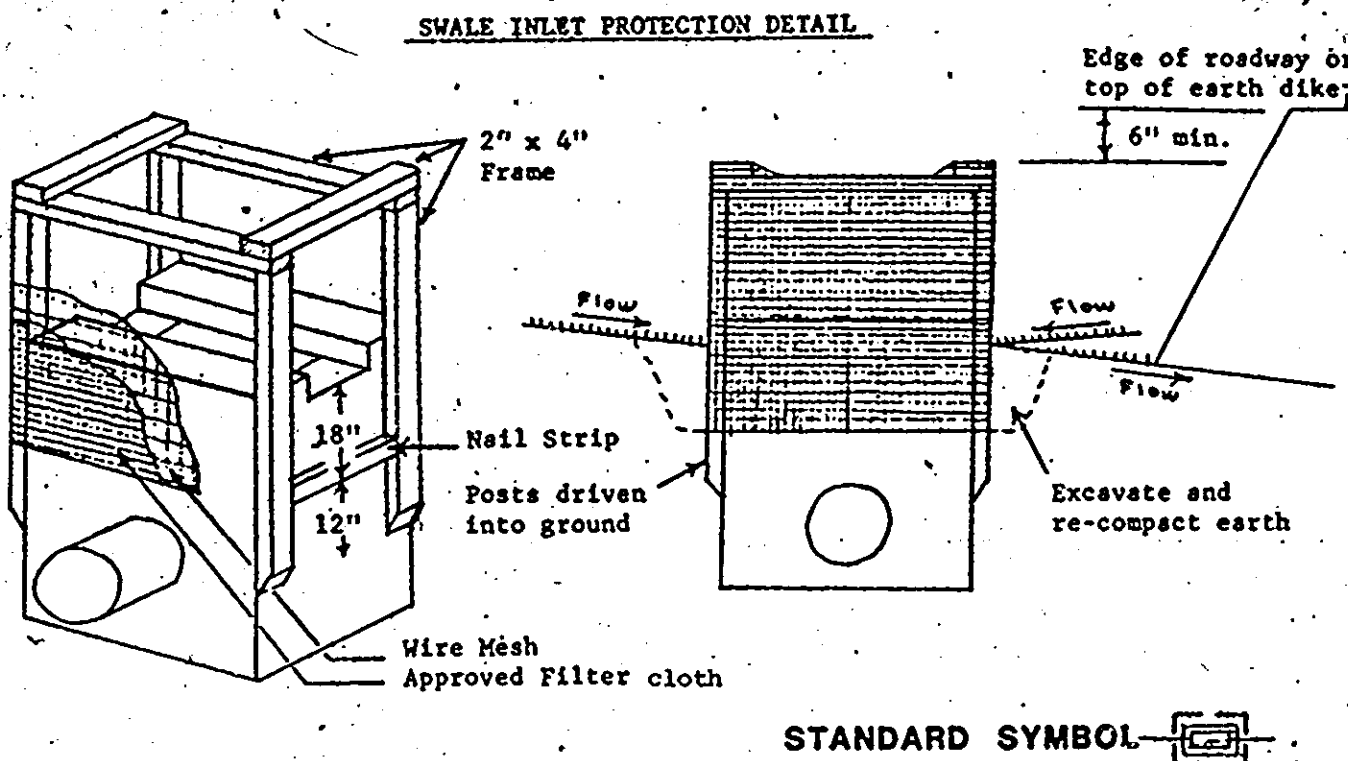
Fertilizer: 15 lbs. of 10-10-10 per 1,000 square feet

Seed: Perennial Rye, Italian Rye - 0.92 lbs. per 1,000 square feet (Feb. 1 through April 30 or Aug. 15 through Nov. 1)

Millet - 0.92 lbs. per 1,000 square feet (May 1 - Aug. 15)

Mulch: Same as above. (Nov. 2 through Jan. 31, use mulch only)

- CONSTRUCTION SEQUENCE**
- Obtain grading permit.
  - Designate contractor's staging and stockpile areas.
  - Clear and grub for the installation of perimeter control.
  - Install all sediment control devices.
  - Complete clearing and grubbing of site and start grading site to subgrade.
  - Start building construction.
  - Install underground utilities.
  - Complete site grading.
  - Construct curb and gutter.
  - Backfill curbs, complete site fine grading, and stabilize areas not to be paved.
  - After stabilization, remove all sediment control devices as approved by the Sediment Control Inspector for Howard County and stabilize remaining areas.



- II. Procedure**
- A. A swale; ditchline or yard inlet protection.
- Excavate 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 strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. 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. Ends 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 frame (weir).
  - This structure must be inspected frequently and the filter fabric replaced when clogged.

SEDIMENT CONTROL 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 (982-2437).
- 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.
- 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with the Howard County Design Manual.
- 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.
- 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.
- Site Analysis:
 

Total area of site:	1.58 acres
Area disturbed:	0.96 acres
Area to be roofed or paved:	.48 acres
Area to be vegetatively stabilized:	.14 acres
Total cut:	120 cu. yds.
Total fill:	0 cu. yds.

 Offsite waste/borrow area location: To be designated by Contractor
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary, by the Howard County Department of Public Works Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested 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.

All Property Shown This Sheet Is Owned By:  
The Howard Research & Development Corp.  
The Rouse Company Building  
Columbia, Md. 21044

Contract Purchaser Parcel B:  
C&P Telephone Company  
Constellation Place  
1 E. Pratt Street  
Baltimore, Md. 21202

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS  
HOWARD COUNTY DEPT OF PUBLIC WORKS  
[Signature] 7-3-86  
DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
[Signature] 7-9-86  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
[Signature] 7-10-86  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

[Signature] 7-10-86  
PLANNING DIRECTOR DATE

DEVELOPER'S CERTIFICATION  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
[Signature] 4/13/86  
A. RANDOLPH KANEKO \*6557 DATE

ENGINEER'S CERTIFICATION  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
[Signature] 6/16/86  
WILLIAM G. MASCHKE NO. 4575 DATE

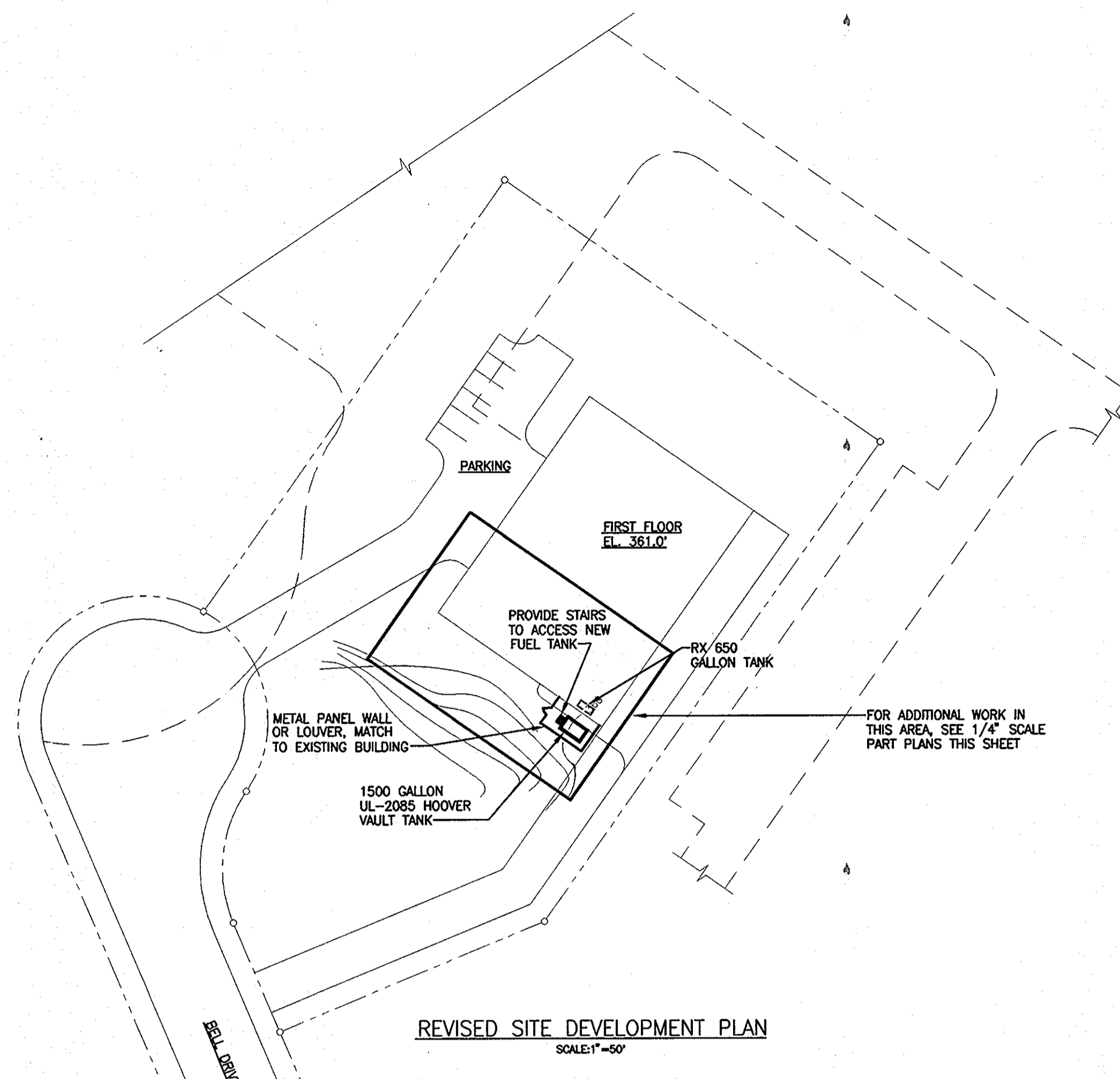
SEDIMENT CONTROL DETAILS  
C & P OF MARYLAND  
SNOWDEN RIVER O.R.M.  
TAX AND ZONING MAP 36 PARCEL NO. B  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=30' FEBRUARY 13, 1986

STATE OF MARYLAND  
[Seal]

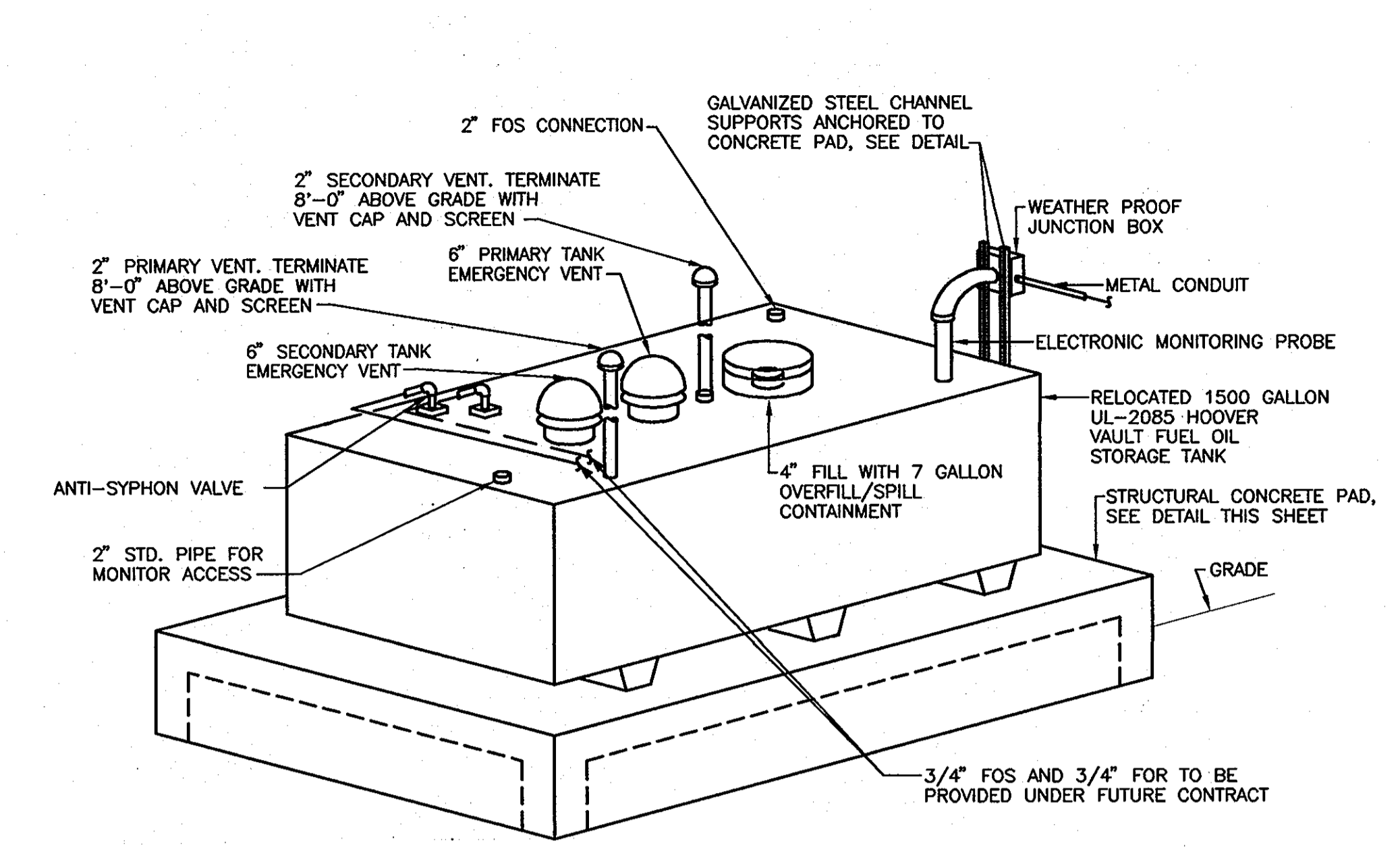
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
[Signature] 7/1/86  
U.S. SOIL CONSERVATION SERVICE DATE

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
[Signature] [Signature]  
Howard Soil Conservation District DATE

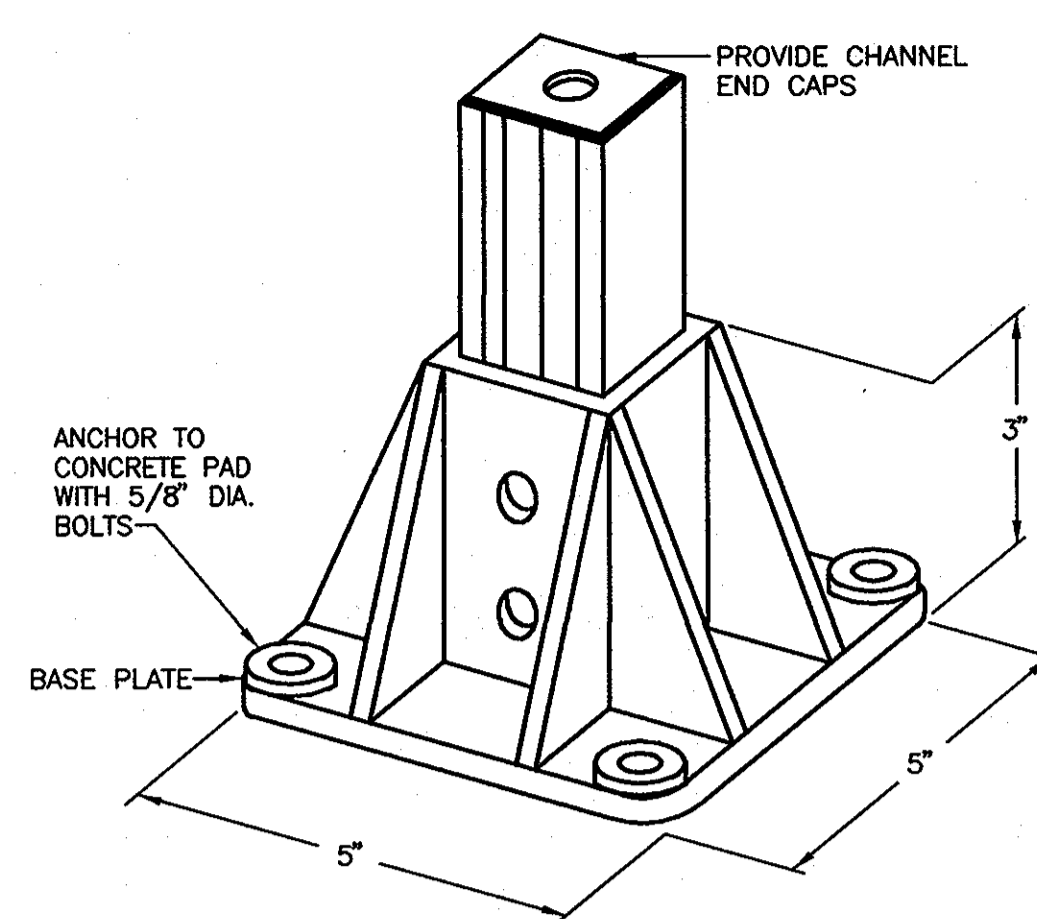
SHEET 5 OF 5  
DESIGNED BY: L.B.B.  
DRAWN BY: T.D.E.  
CHECKED BY: W.G.R.



REVISED SITE DEVELOPMENT PLAN  
SCALE: 1/8"=1'-0"

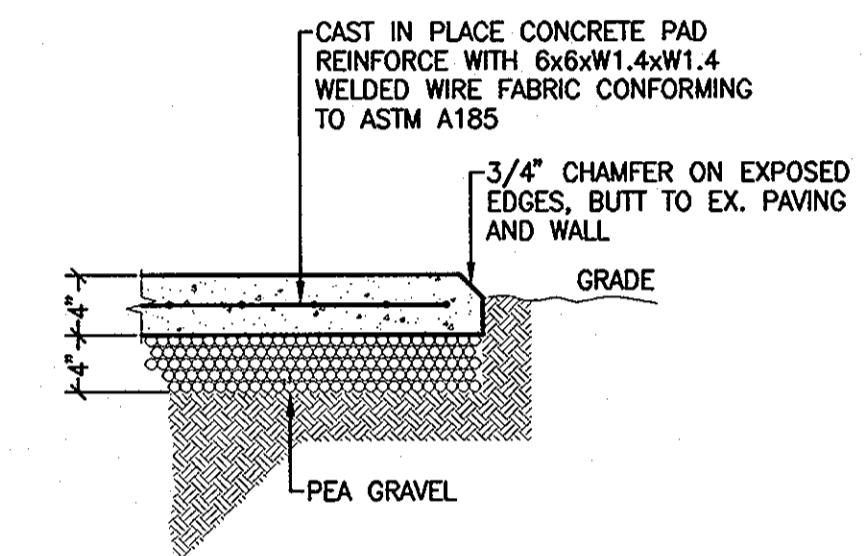


DETAIL - CONCRETE VAULT FUEL OIL STORAGE TANK  
NOT TO SCALE



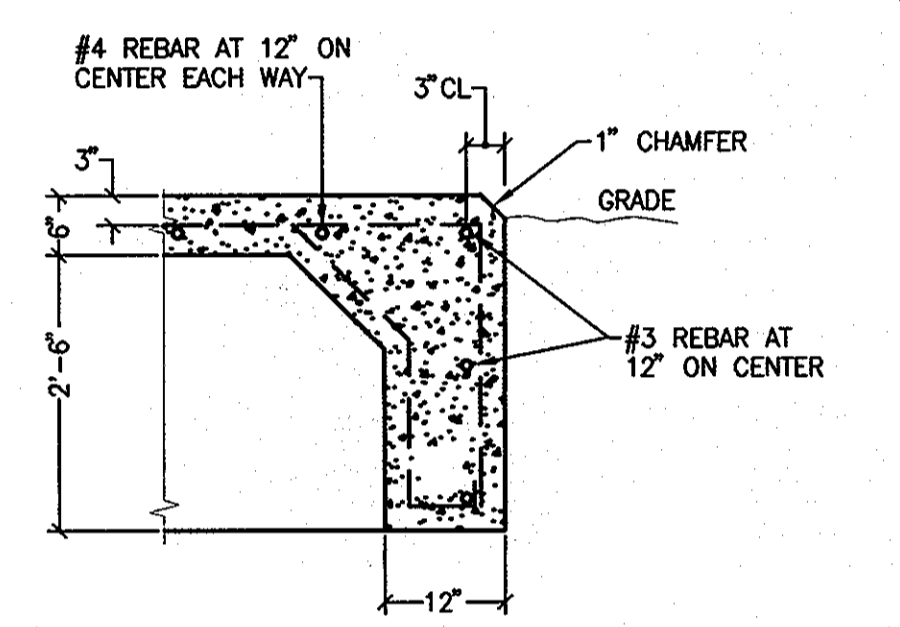
DETAIL - PAD MOUNTED UPRIGHT SUPPORTS  
NOT TO SCALE

MECHANICAL LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
—		NEW WORK
—	CX	CONNECT NEW WORK TO EXISTING
—	EX	EXISTING WORK TO REMAIN
---	RX	REMOVE EXISTING WORK
---	FOS	FUEL OIL SUPPLY
---	FOR	FUEL OIL RETURN
---	SAN	SANITARY LINE
---	VP	VENT PIPE
---	CW	COLD WATER
---	SW	STORM WATER
---		CLEAN OUT (HORIZONTAL, VERTICAL)
---		PIPE TURNED UP, PIPE TURNED DOWN



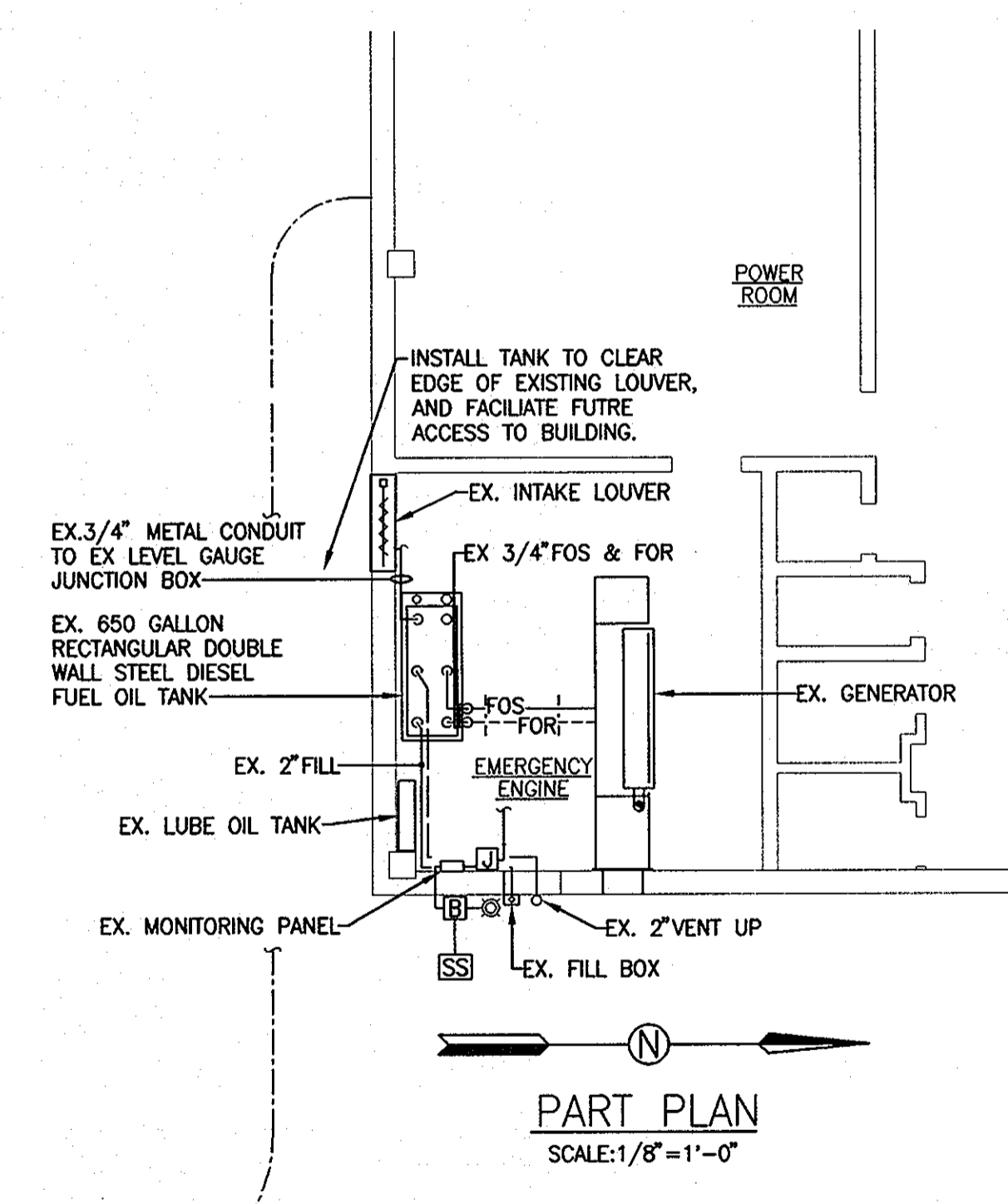
- NOTES:
- CONCRETE SHALL EXTEND COMPLETELY FROM BUILDING WALL TO EDGE OF EXISTING PAVING.
  - CONCRETE SHALL BE SET WITH A SLOPE OF APPROXIMATELY 1/16 INCH PER FOOT TO PROMOTE DRAINAGE.
  - PROVIDE 1/4" EXPANSION JOINT MATERIAL AT BUTT TO BUILDING AND EXISTING PAVING. CAULK SEAL JOINTS AT BOTH LOCATIONS.

DETAIL - CONCRETE WALKWAY  
NOT TO SCALE

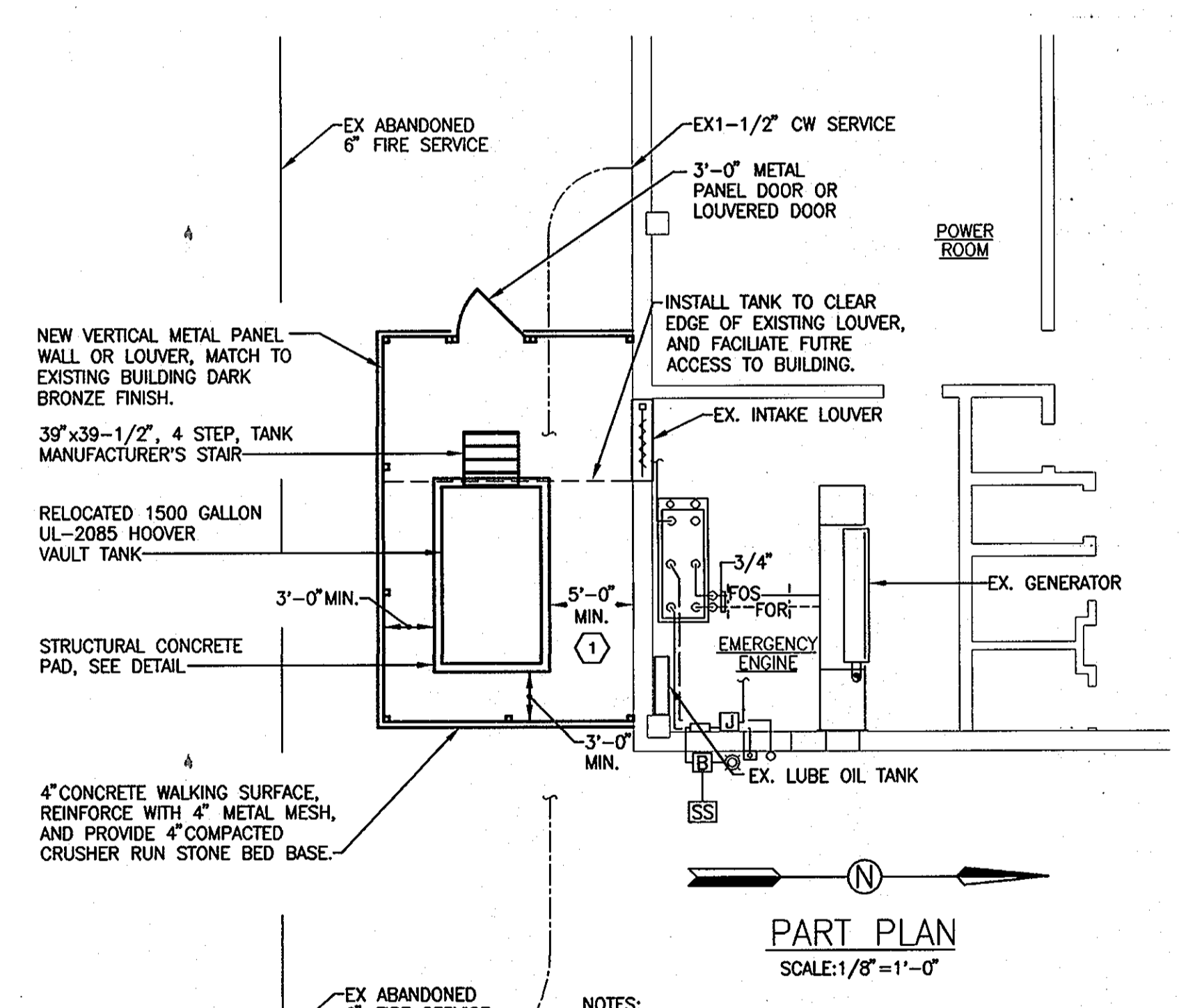


- NOTES:
- CONCRETE PAD SHALL EXTEND 12" BEYOND ALL FOUR SIDES OF TANK.
  - CONCRETE PAD SHALL BE SET TRUE AND LEVEL.

DETAIL CONCRETE PAD  
NOT TO SCALE

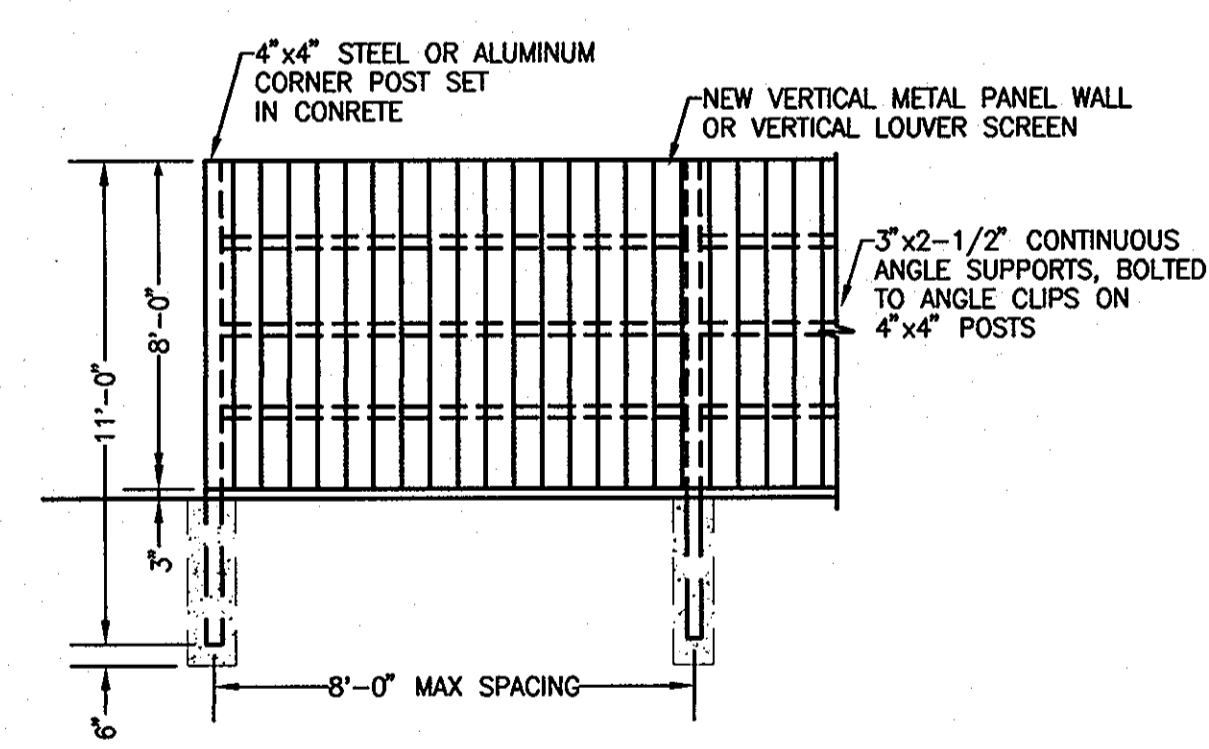


PART PLAN  
SCALE: 1/8"=1'-0"



PART PLAN  
SCALE: 1/8"=1'-0"

- NOTES:
- SET TANK FAR ENOUGH TO CLEAR EXISTING 1-1/2" DOMESTIC WATER SERVICE, MINIMUM OF 5'-0" FROM BUILDING WALL.

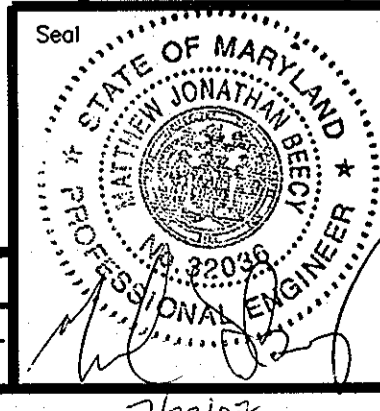


DETAIL - METAL PANEL WALL DETAIL  
NOT TO SCALE

**KOVACS, WHITNEY AND ASSOC., INC.**  
CONSULTING ENGINEERS  
1216 HULL STREET  
BALTIMORE, MARYLAND 21230  
(410) 244-7191  
(410) 547-1344

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development Engineering Division  
Chief, Division of Land Development  
Director

ADDRESS CHART		SUBDIVISION NAME: COLUMBIA GATEWAY		SECT./AREA	LOT/PARCEL NO. B
PARCEL NO. B.	STREET ADDRESS 6750 Alexander Bell Dr.	PLAT# OR L/F 6766	BLOCK 24	TAX/ZONE M-1	ELEC. DIST. CENSUS TR. 6 806502
		WATER CODE: E06		SEWER CODE: 3390000	



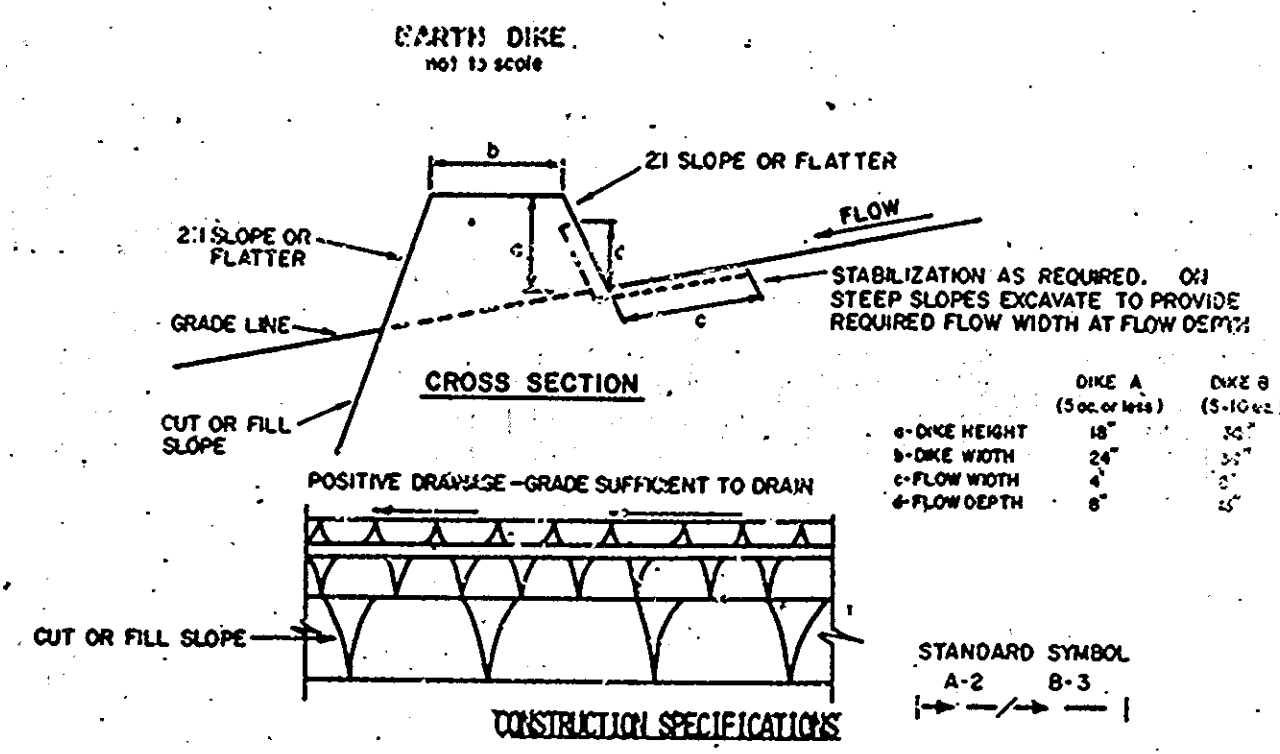
REVISED SITE DEVELOPMENT PLAN  
VERIZON MARYLAND, INC.  
SNOWDEN RIVER O.R.M.

SHEET 6 OF 6  
DESIGNED BY: MJB  
DRAWN BY: KWA  
CHECKED BY: EJB

DATE	REVISION DESCRIPTION
7-19-07	ADDITION OF 1500 GALLON FUEL TANK AND ENCLOSURE

TAX AND ZONING MAP 36  
SIXTH ELECTION DISTRICT  
SCALE: AS NOTED

PARCEL NO. B  
HOWARD COUNTY, MARYLAND  
JULY 19, 2007

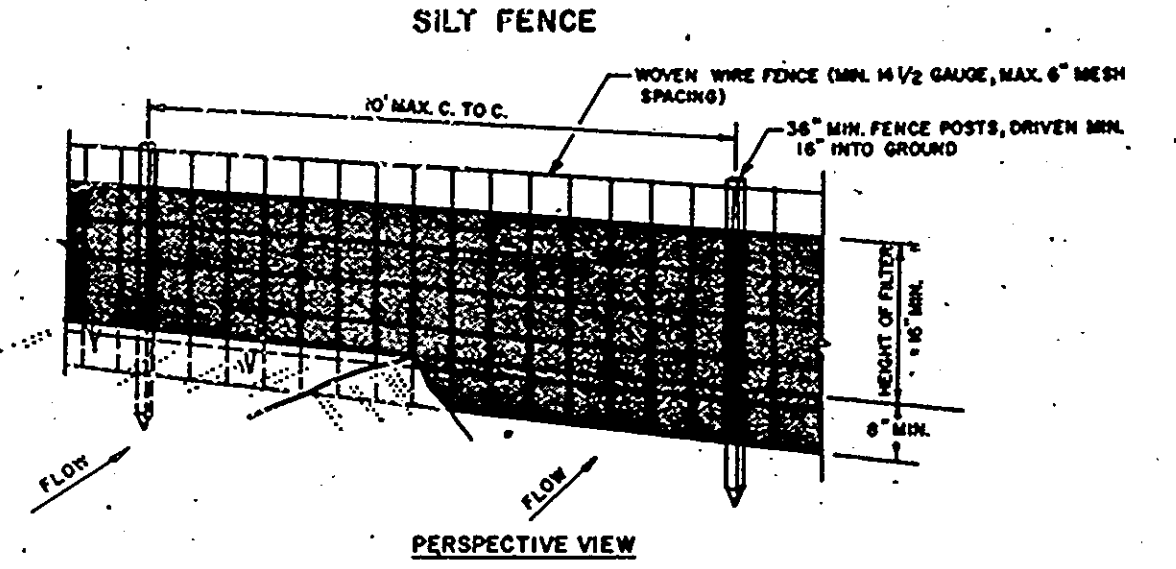


**CONSTRUCTION SPECIFICATIONS**

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- EARTH DIKES 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 WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSTOR, SOD, 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD, 2" STONE	LINED RIP-RAP 4-8"
4	9.1-20%	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 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.  
 C. Approved equivalents can be substituted for any of the above materials.  
 7. Periodic inspection and required maintenance must be provided after each rain event.



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- 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, 1/4" GA. 6" MAX. MESH OPENING  
 FILTER CLOTH: FILTER X, HURFALOW, STABIL-LUNA LIQUID OR APPROVED EQUAL  
 PREFABRICATED UNIT: GEOTAB, DIVIOPENCE, OR APPROVED EQUAL

**DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT**

**SITE PREPARATION**

- Temporary perimeter dikes and silt traps, etc., are to be provided as per this plan prior to grading operations with location adjustments to be made in the field as necessary and to be maintained at the end of the working day. The minimum area practical shall be disturbed for the minimum amount of time possible.
- Permanent seeding:
  - Seedbed preparation: Area to be seeded shall be loose and friable to a depth of at least 3 inches. The top layer shall be loosened by raking, disking, or other acceptable means before seeding occurs. In lieu of soil test results, apply 50 lbs. of dolomitic limestone and 25 lbs. of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3 inches on slopes flatter than 3:1. No attempt should be made to drag any disked area to make the soil surface smooth after disking.
  - Seeding: Apply 5-6 lbs. per 1,000 square feet of Kentucky 31 Tall Fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly with a cyclone seeded drill, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only) on a moist, firm seedbed. Maximum seed depth should be 1/4 inch in clayey soils and 1/2 inch in sandy soils when using either the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth, until vegetation is firmly established.
  - Mulching: Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 70 to 90 lbs. per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada Thistle, Johnsongrass, and Quackgrass. Spread mulch mechanically or uniformly by hand; mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by peg and twine method, mulch anchoring tool, netting, or liquid mulch binders.
- Temporary seeding:
  - Lime: 50 lbs. of dolomitic limestone per 1,000 square feet
  - Fertilizer: 15 lbs. of 10-10-10 per 1,000 square feet
  - Seed: Perennial Rye, Italian Rye - 0.92 lbs. per 1,000 square feet (Feb. 1 through April 30 or Aug. 15 through Nov. 1)
  - Millet - 0.92 lbs. per 1,000 square feet (May 1 - Aug. 15)
  - Mulch: Same as above. (Nov. 2 through Jan. 31, use mulch only)

**SEDIMENT CONTROL NOTES**

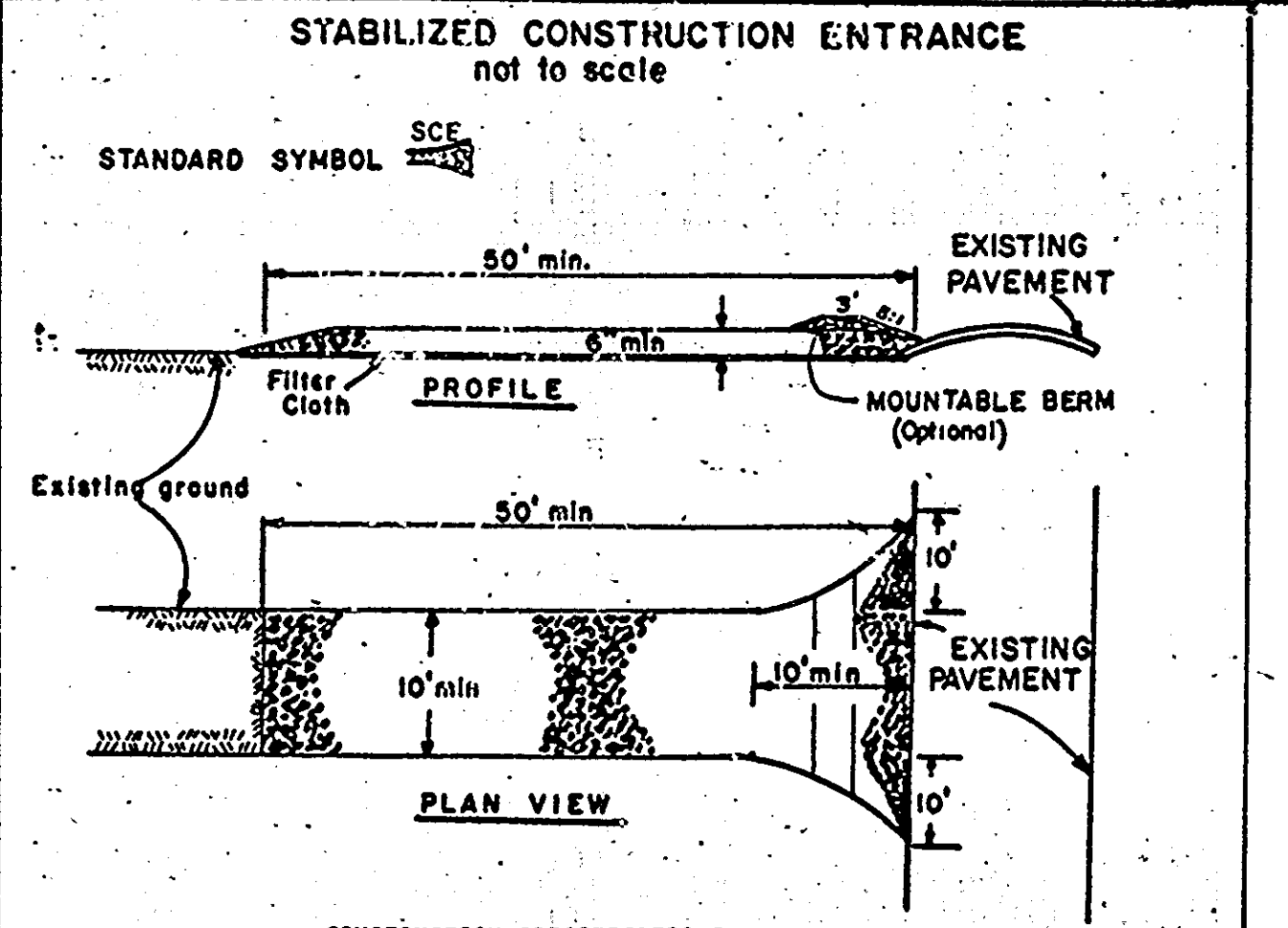
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (982-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with the Howard County Design Manual.
- 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.
- 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.
- Site Analysis:
 

Total area of site:	1.58 acres
Area disturbed:	0.48 acres
Area to be roofed or paved:	0.48 acres
Area to be vegetatively stabilized:	0.62 acres
Total cut:	120 cu. yds.
Total fill:	0 cu. yds.

 Offsite waste/borrow area location: To be designated by Contractor
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary, by the Howard County Department of Public Works Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested 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.

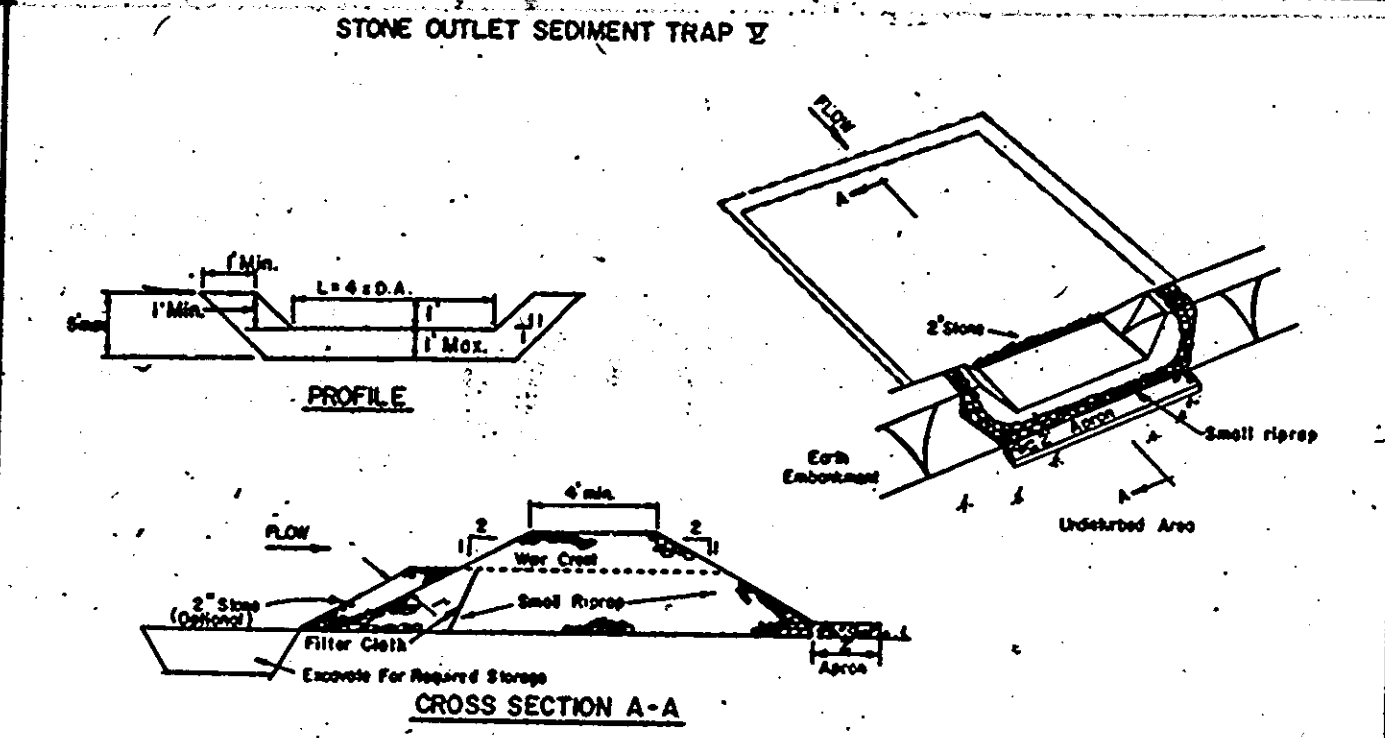
U.S. DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE  
 COLLEGE PARK, MARYLAND

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



**CONSTRUCTION SPECIFICATIONS**

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than 12 (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 residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounatable berm with 3:1 slopes 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 measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- 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.
- Periodic inspection and needed maintenance shall be provided after each rain.



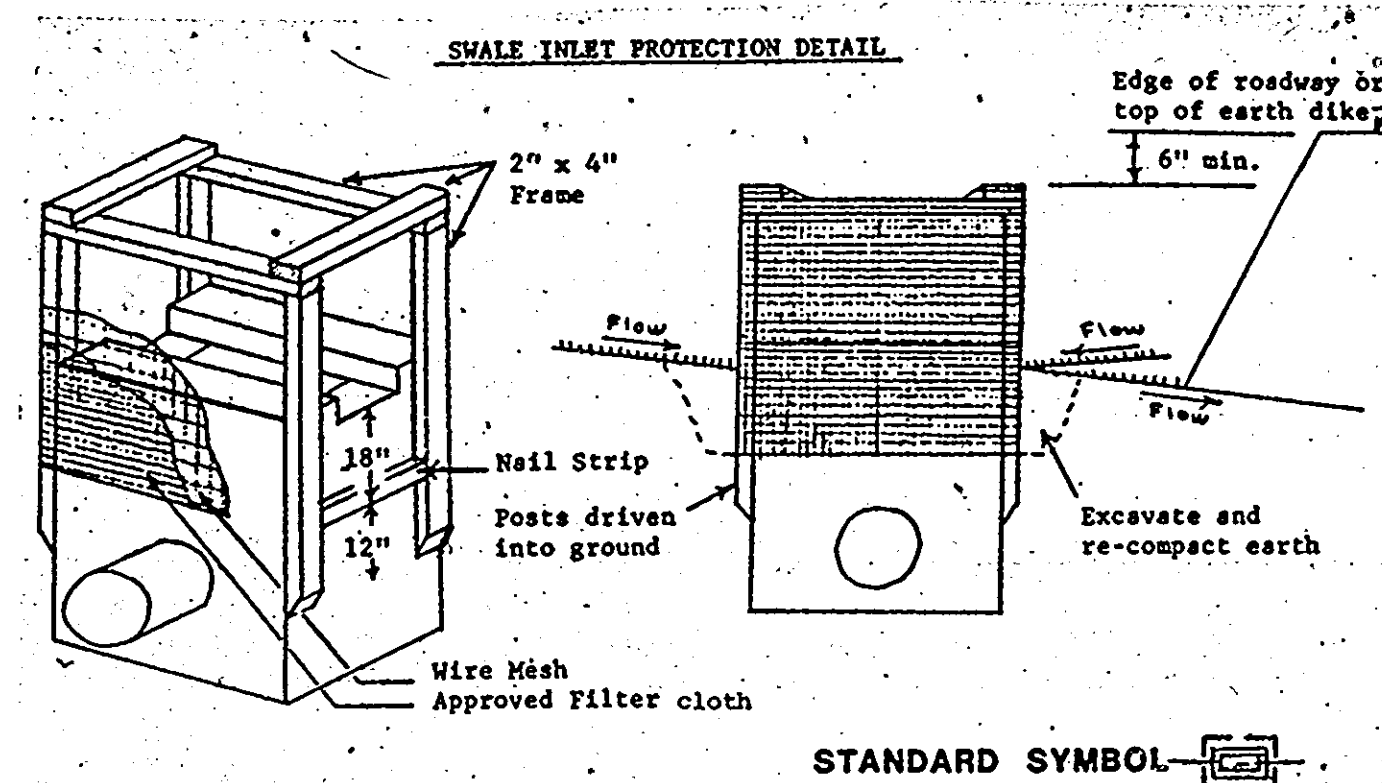
**CONSTRUCTION SPECIFICATIONS FOR ST-X**

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side, on the small riprap 2" embedded filter cloth in the riprap.
- 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.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the site stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

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

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



**Procedure**

- A swale, ditchline or yard inlet protection.
  - Excavate 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 strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. 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. Ends 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 frame (weir).
  - This structure must be inspected frequently and the filter fabric replaced when clogged.

- CONSTRUCTION SEQUENCE:**
- Obtain grading permit.
  - Designate contractor's staging and stockpile areas.
  - Clear and grub for the installation of perimeter control.
  - Install all sediment control devices.
  - Complete clearing and grubbing of site and start grading site to subgrade.
  - Start building construction.
  - Install underground utilities.
  - Complete site grading.
  - Construct curb and gutter.
  - Backfill curbs, complete site fine grading, and stabilize areas not to be paved.
  - After stabilization, remove all sediment control devices as approved by the Sediment Control Inspector for Howard County and stabilize remaining areas.

All Property Shown This Sheet Is Owned By:  
 The Howard Research & Development Corp.  
 The Rouse Company Building  
 Columbia, Md. 21044

Contract Purchaser Parcel B:  
 C&P Telephone Company  
 Constellation Place  
 1 E. Pratt Street  
 Baltimore, Md. 21202



Date	Symbol	REVISION Description	Initials
7/1/86	Δ	Changed Titleblock Info	MSB

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
 J.S. Soil Conservation Service  
 Date: 7/1/86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Howard Soil Conservation District  
 Date: 7/1/86

ADDRESS CHART		SUBDIVISION NAME		SECT./AREA		LOT/PARCEL NO.	
PARCEL NO.	STREET ADDRESS	COLUMBIA GATEWAY					
6766	6730 Alexander Blvd	24	6				
		WATER CODE: E06	SEWER CODE: 3390000				

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1025 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

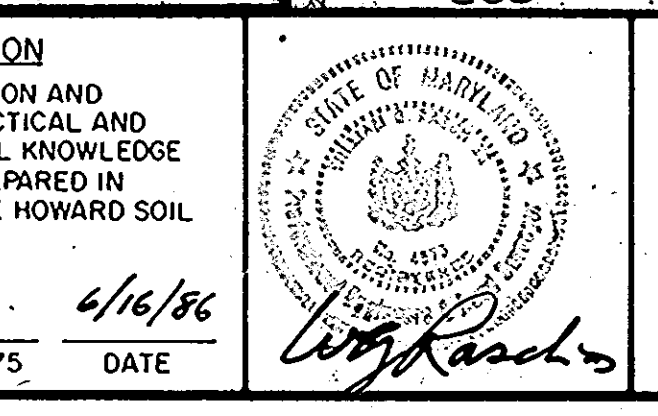
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS  
 HOWARD COUNTY DEPT OF PUBLIC WORKS  
 Director: [Signature]  
 Date: 7-3-86  
 Chief, Bureau of Engineering: [Signature]  
 Date: 7-9-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature]  
 Date: 7-8-86

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 [Signature]  
 Chief, Division of Land Development and Zoning Administration: [Signature]  
 Date: 7-10-86  
 Planning Director: [Signature]  
 Date: 7-10-86

**DEVELOPER'S CERTIFICATION**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
 A. Randolph Kaneko \*6557  
 Date: 2/13/86

**ENGINEER'S CERTIFICATION**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 William G. Rasch  
 Will'Iam G. Rasch E  
 No. 4575  
 Date: 4/16/86

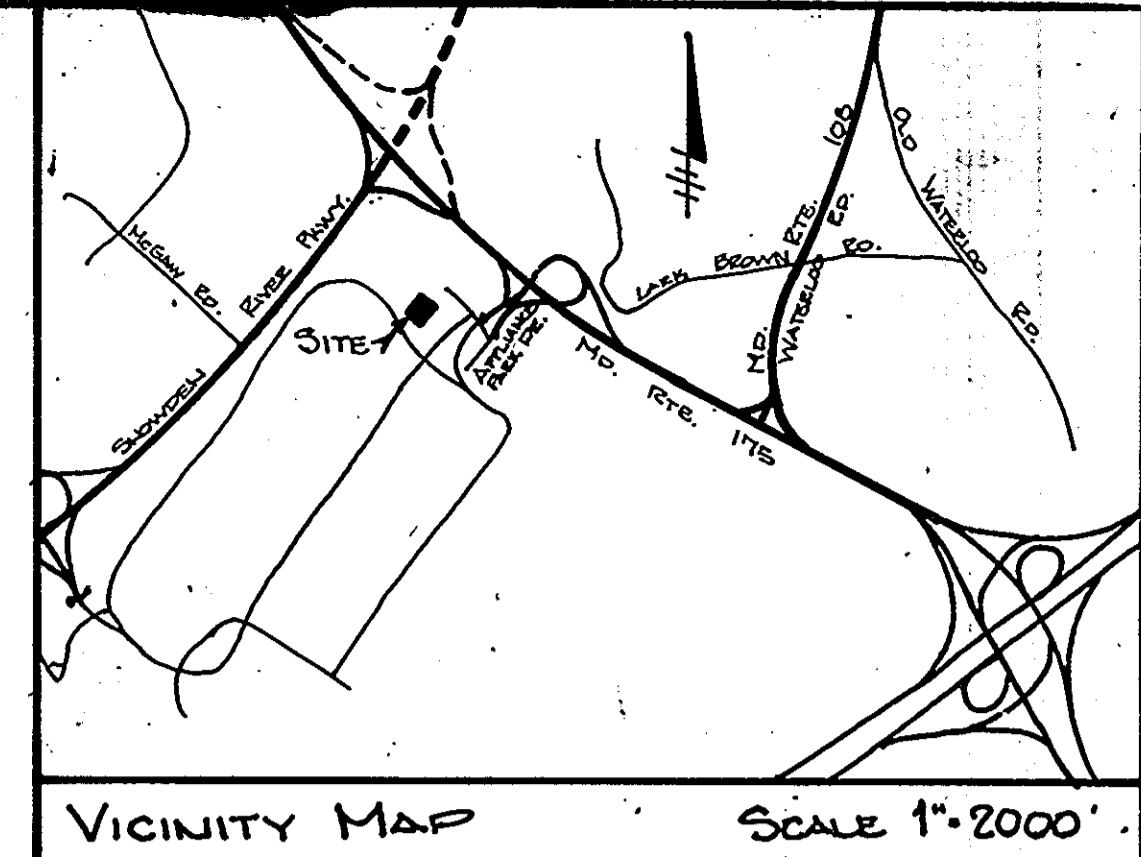


**SEDIMENT CONTROL DETAILS**  
 GSP OF MARYLAND, INC.  
 SNOWDEN RIVER O.R.M.  
 TAX AND ZONING MAP 36  
 SIXTH ELECTION DISTRICT  
 SCALE: 1"=30'  
 PARCEL NO. B  
 HOWARD COUNTY, MARYLAND  
 FEBRUARY 13, 1986

SHEET 5 OF 6  
 DESIGNED BY: L.B.B.  
 DRAWN BY: T.D.E.  
 CHECKED BY: W.G.R.

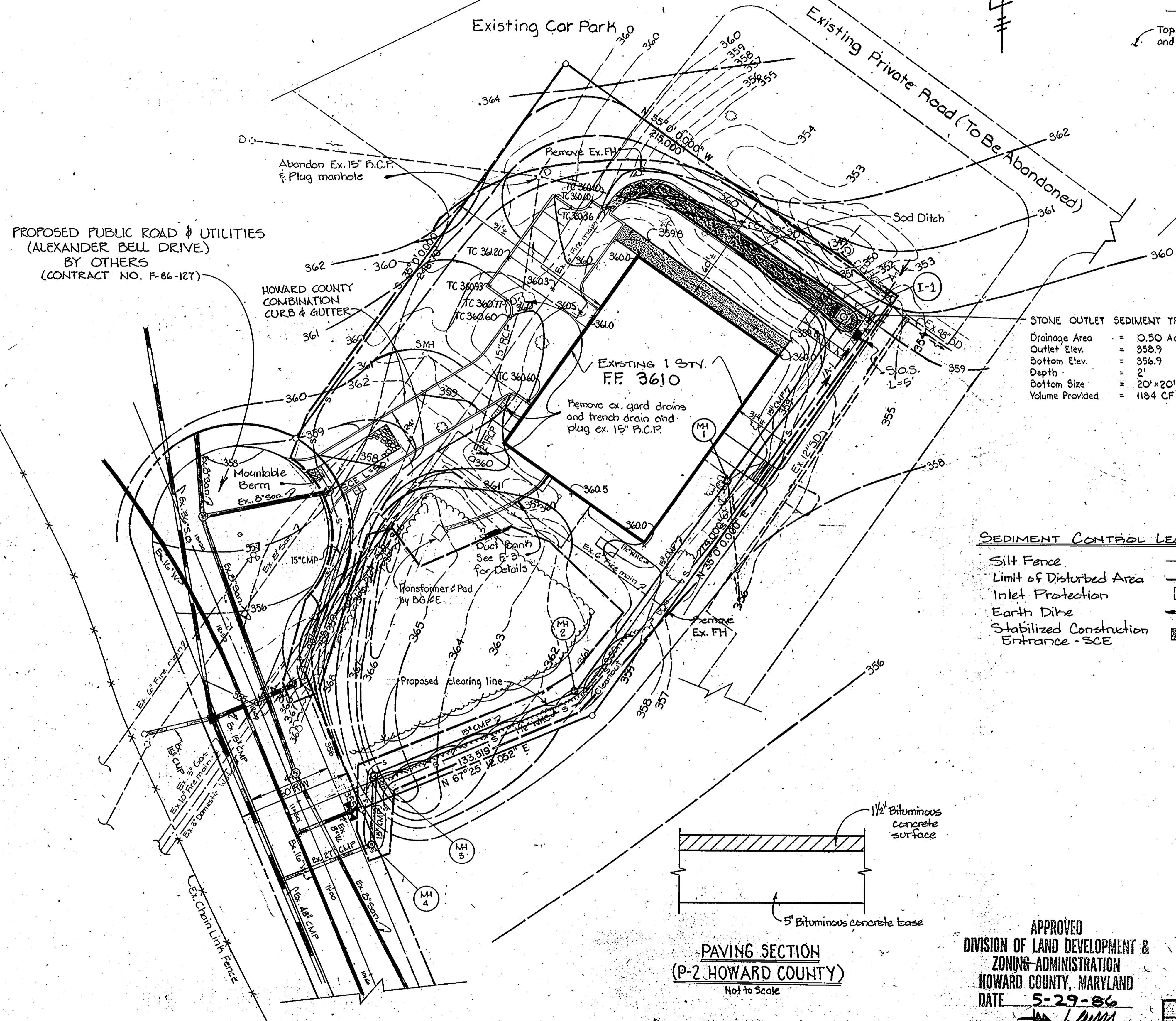
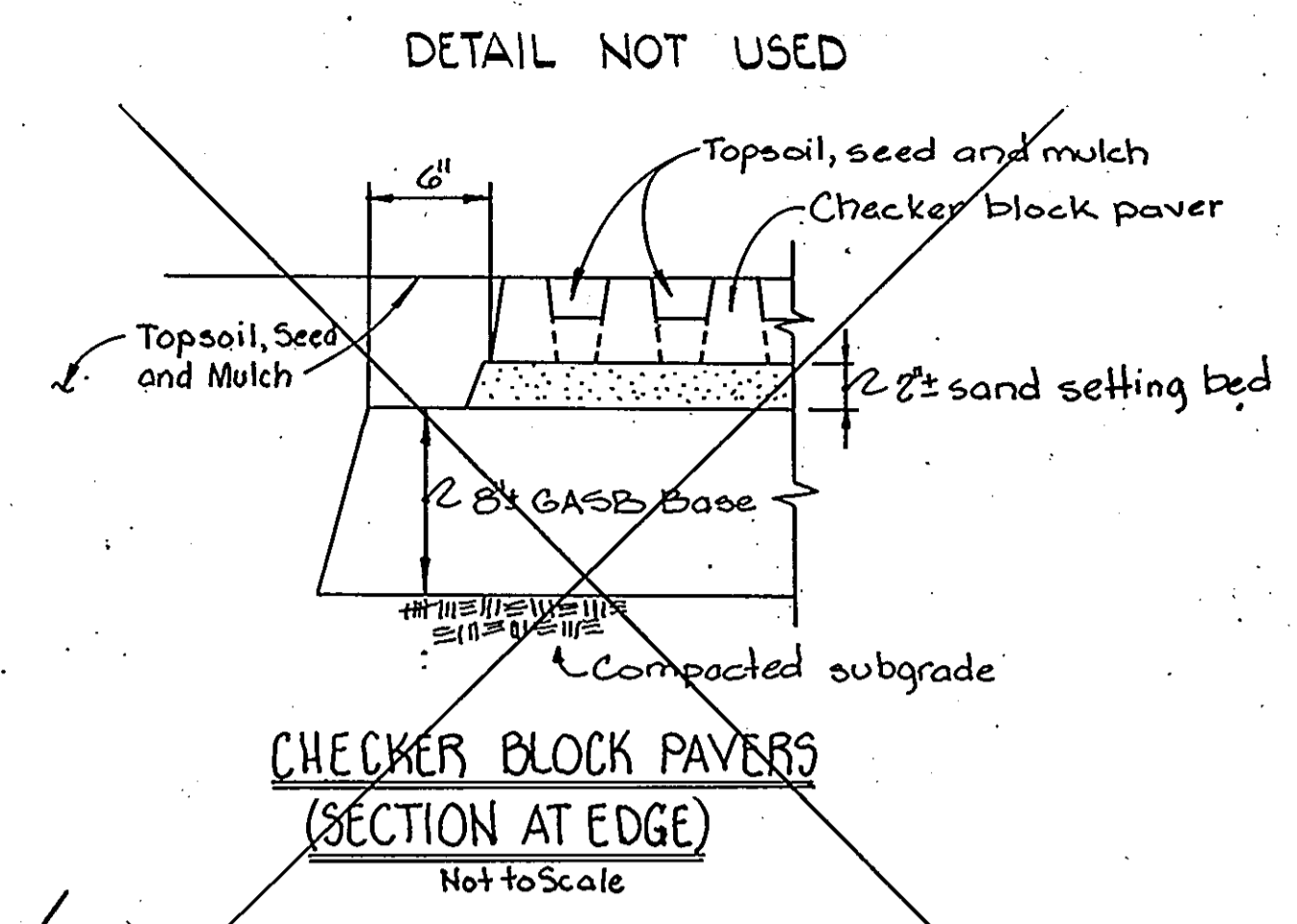
**CONTOUR LEGEND:**

- Existing Contours
- - - Proposed Contours by Others
- Proposed Contours



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 Columbia, Md. 21044

Contract Purchaser Parcel B:  
 C&P Telephone Company  
 Constellation Place  
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 Baltimore, Md. 21202

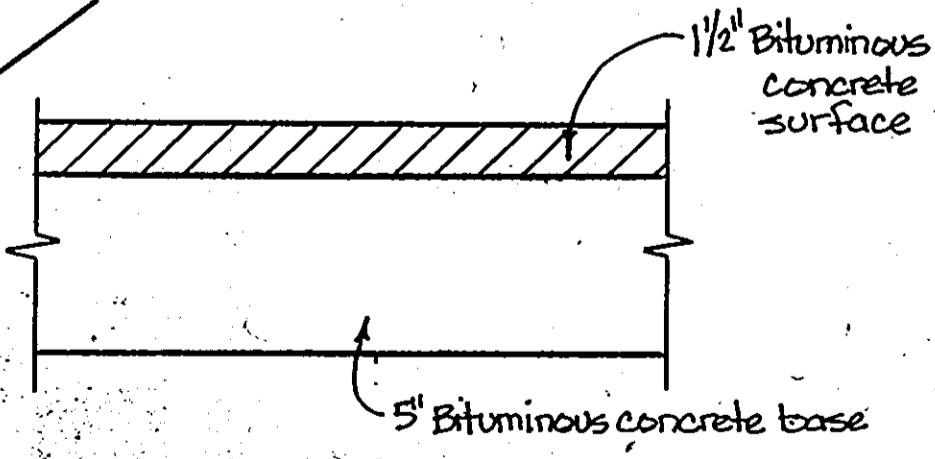


**STONE OUTLET SEDIMENT TRAP**

Drainage Area = 0.50 Ac±  
 Outlet Elev. = 358.9  
 Bottom Elev. = 356.9  
 Depth = 2'  
 Bottom Size = 20' x 20'  
 Volume Provided = 1184 CF

**SEDIMENT CONTROL LEGEND**

- Silt Fence — S — S
- Limit of Disturbed Area ———
- Inlet Protection [Symbol]
- Earth Dike — A — L
- Stabilized Construction Entrance - SCE [Symbol]



**PAVING SECTION (P-2 HOWARD COUNTY)**  
 Not to Scale

**APPROVED**  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 5-29-86



DATE	SYMBOL	REVISION DESCRIPTION	INITIALS
7/10/86	Δ	Changed Titleblock Info	MJB

Reviewed for Howard County Soil Conservation District and meets technical requirements:  
 [Signature] Date 6/1/86  
 U.S. Soil Conservation Service

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 [Signature] Date  
 Howard Soil Conservation District

ADDRESS CHART		SUBDIVISION NAME		SECT./AREA	PARCEL NO.
PARCEL NO.	STREET ADDRESS	PLAT OR L/F	BLOCK	TAX / ZONE MAP	ELEC. DIST.
126	302 Alexander Blvd	276	24	36	6
		WATER CODE		SEWER CODE	
		206		330000	

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202  
 301 / 837-0194

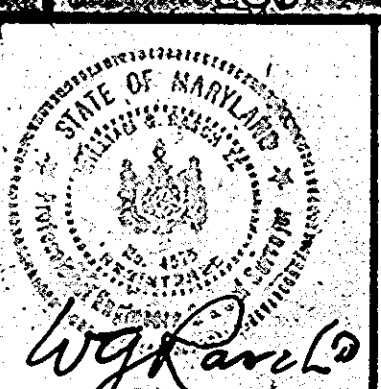
**APPROVED:** For public water, public sewerage, storm drainage, and roads.  
 Howard County Department of Public Works  
 [Signature] Date 7-9-86  
 Director

**APPROVED:** For public water and public sewerage systems.  
 Howard County Health Department  
 [Signature] Date 7-8-86  
 County Health Officer

**APPROVED:**  
 Howard County Office of Planning and Zoning  
 [Signature] Date 7-10-86  
 Chief, Division of Land Development and Zoning Administration

**DEVELOPER'S CERTIFICATION:**  
 I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment erosion before beginning the project.  
 [Signature] Date 7/10/86  
 A. RANDOLPH KANEKO

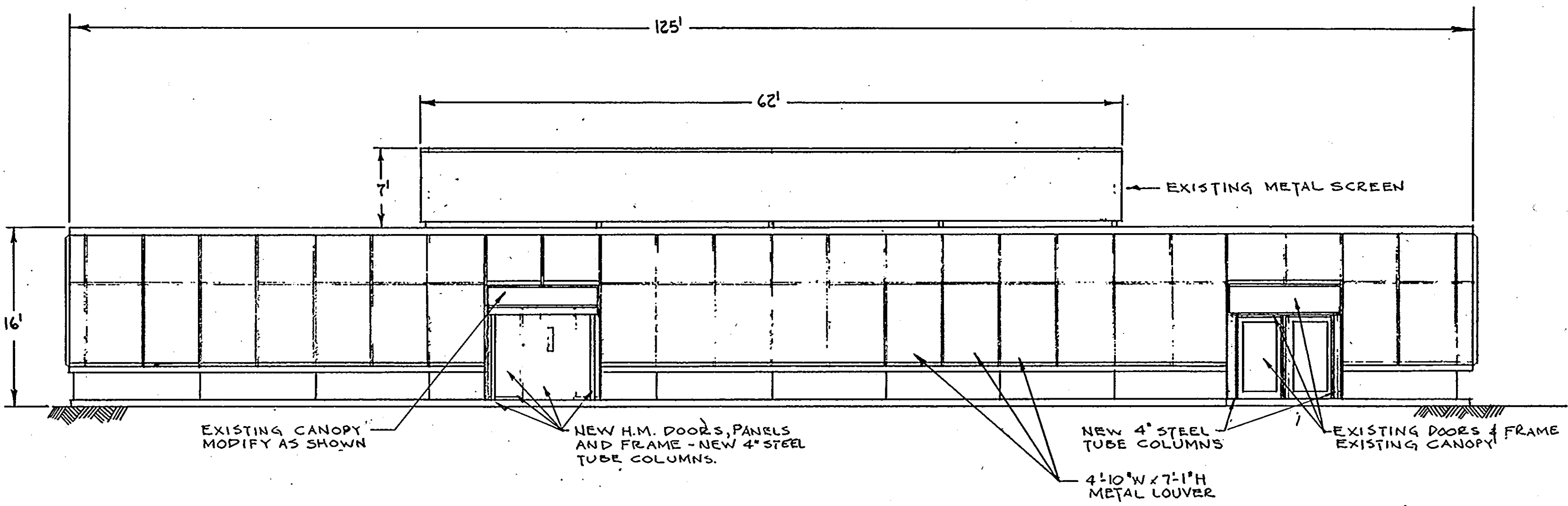
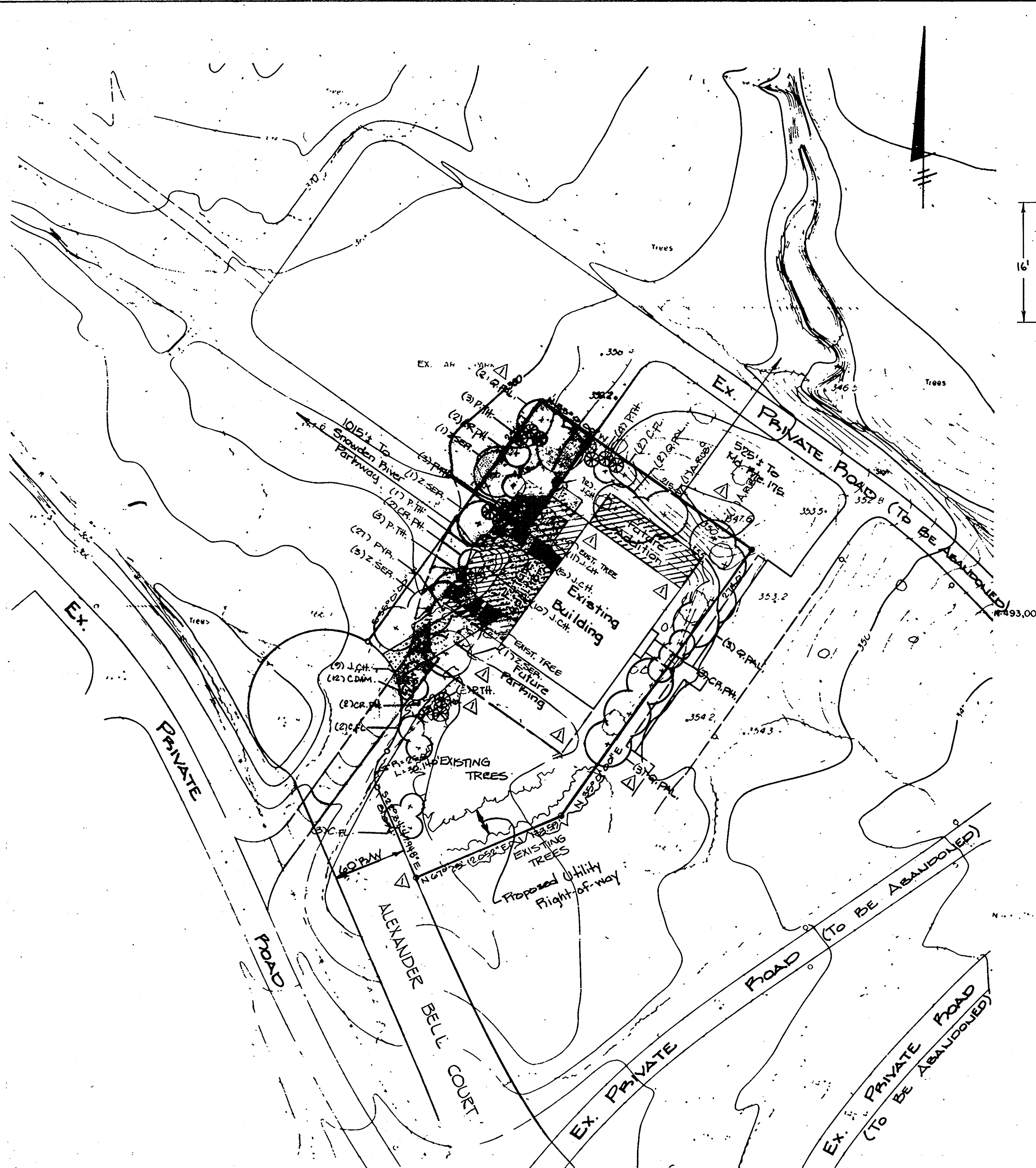
**ENGINEER'S CERTIFICATION:**  
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 [Signature] Date 7/10/86  
 WILLIAM S. RASCHT



**SEDIMENT CONTROL PLAN**  
 STATE OF MARYLAND, INC.  
 SNOWDEN RIVER O.R.M.  
 TAX AND ZONING MAP 36 SIXTH ELECTION DISTRICT SCALE: 1"=30'  
 PARCEL NO. B HOWARD COUNTY, MARYLAND FEBRUARY 13, 1986

**SHEET 4 OF 6**  
 DESIGNED BY: L.B.B.  
 DRAWN BY: P.S.  
 CHECKED BY: W.G.R.  
 SDP-86-189





WEST ELEVATION  
SCALE 1/8" = 1'-0"

All Property Shown This Sheet Is Owned By:  
The Howard Research & Development Corp.  
The Rouse Company Building  
Columbia, Md. 21044

Contract Purchaser:  
C&P Telephone Company  
Constellation Place  
1 E. Pratt Street  
Baltimore, Md. 21202

PLANT LIST

ABBR.	QUANTITY	SIZE	BOTANICAL NAME	COMMON NAME
<b>Shrubs:</b>				
C. Dam.	12	18-24" Container	Cotoneaster Dameri 'Skogholm'	Christmas Carpet Cotoneaster
J. Ch.	47	18-24" Container	Juniperus Ch. 'Pfitzeriana 'Compacta'	Compact Pfitzer Juniper
Pyr.	27	18-24" Container	Pyracantha Coccinea 'Rutgers'	Rutgers Firethorn
<b>Trees:</b>				
A. Rub.	2	24-3" Cal. B&B	Acer Rubrum	Red Maple
C. Fl.	7	2-2 1/2" Cal. B&B	Cornus Florida	Flowering Dogwood
Cr. Ph.	9	2-2 1/2" Cal. B&B	Crataegus Phaenopyrum	Washington Hawthorn
P. Th.	17	6-8" B&B	Pinus Thunbergi	Japanese Black Pine
Q. Pal.	10	2 1/2-3" Cal. B&B	Quercus Palustris	Pin Oak
Z. Ser.	6	2 1/2-3" Cal. B&B	Zelkova Serrata	Zelkova

Specification:  
Planting: Shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metro Area" by LCAW and MSLA. One year warranty.  
Seeding: Shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metro Area" by LCAW and MSLA. All disturbed areas not to be paved or planted shall be seeded.

TREE TABULATION

SMALL TREES	8
PINES	7
LARGE TREES	18
TOTAL TREES	33

LANDSCAPING PLAN  
1" = 50'

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-29-86

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
B	6730 Alexander Bell Dr.

SUBDIVISION NAME		SECT./AREA	LOT/PARCEL NO.
Columbia Gateway		1	B
PLAT/OR/F	BLOCK	TAX./ZONE	ELEC. DIST.
6706	29	M-1	6
WATER CODE		SEWER CODE	
E06		3390000	

DATE	REVISION DESCRIPTION	INITIALS
7/1/86	Changed Titleblock Info	MSB

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
J. Helms 7/1/86  
U.S. Soil Conservation Service Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Stephen L. Fisher 7/1/86  
Howard Soil Conservation District Date

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0184

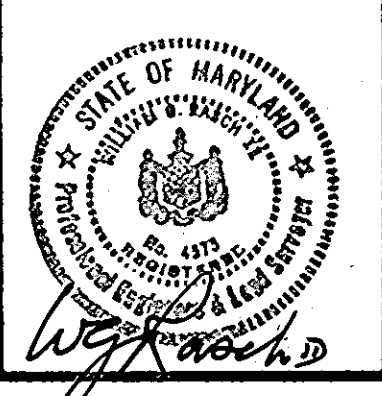
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
HOWARD COUNTY DEPT OF PUBLIC WORKS  
Director: Mark Nummy 7-7-86  
Chief, Bureau of Engineering: [Signature] 7-7-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
County Health Officer: [Signature] 7-8-86

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
Chief, Division of Land Development and Zoning Administration: [Signature] 7-10-86  
Planning Director: [Signature] 7-10-86

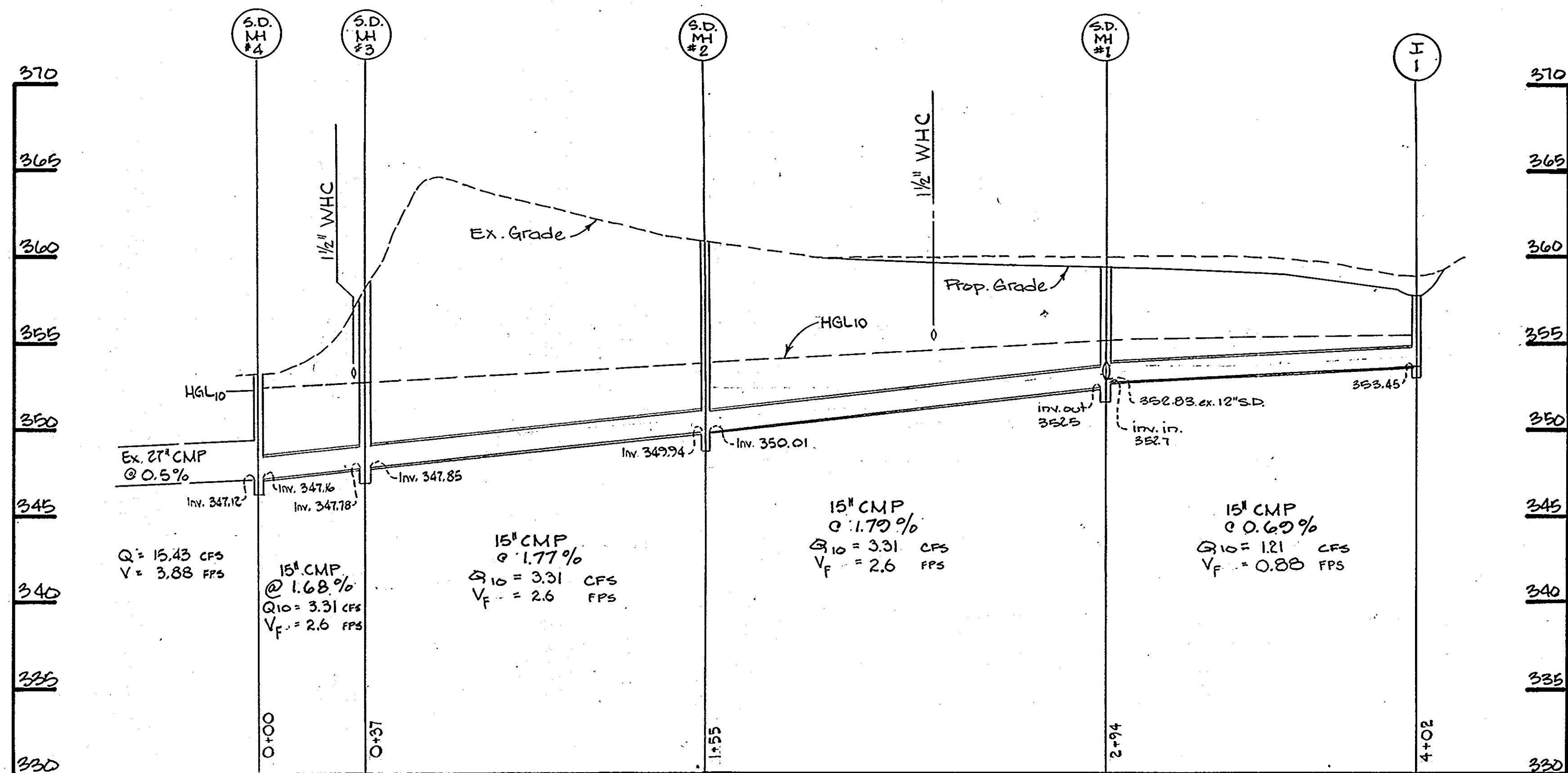
DEVELOPER'S CERTIFICATION  
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A. Randolph Kaneko 2/13/86

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William G. Rasch II 2/13/86



LANDSCAPING PLAN & BUILDING ELEVATION  
STATE OF MARYLAND, INC.  
SNOWDEN RIVER O.R.M.  
TAX AND ZONING MAP 36 PARCEL NO. B  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30' FEBRUARY 13, 1986

SHEET 3 OF 3  
DESIGNED BY: L.B.B.  
DRAWN BY: P.S.  
CHECKED BY: W.G.R.

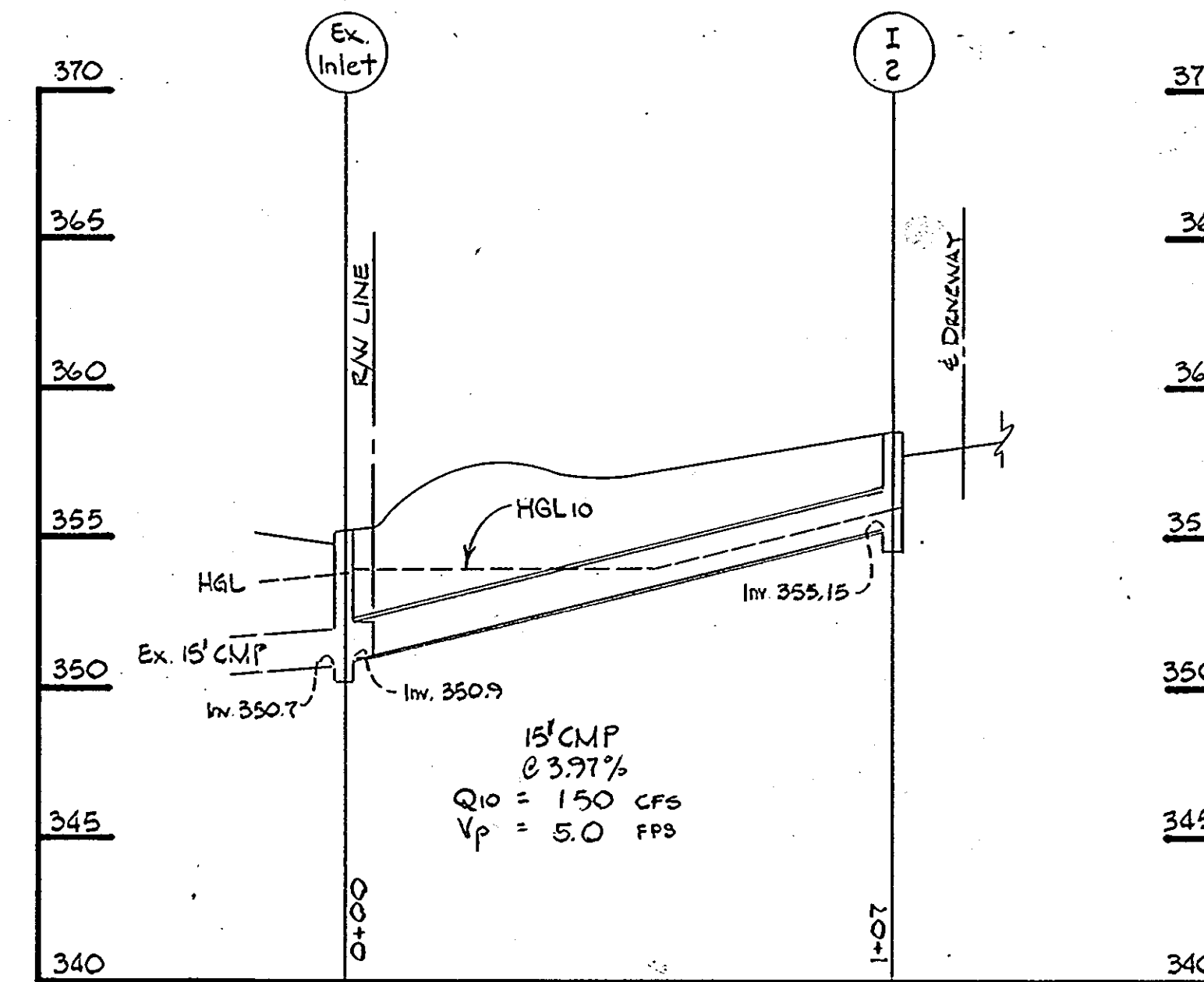


**STORM DRAIN PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 5'  
 V<sub>F</sub> = PIPE-FULL VELOCITY

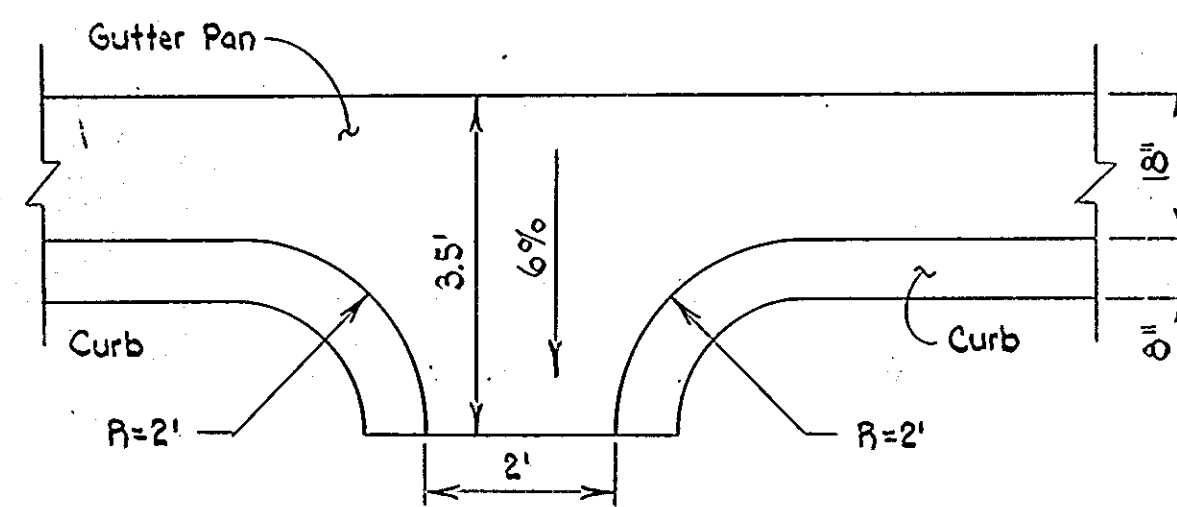
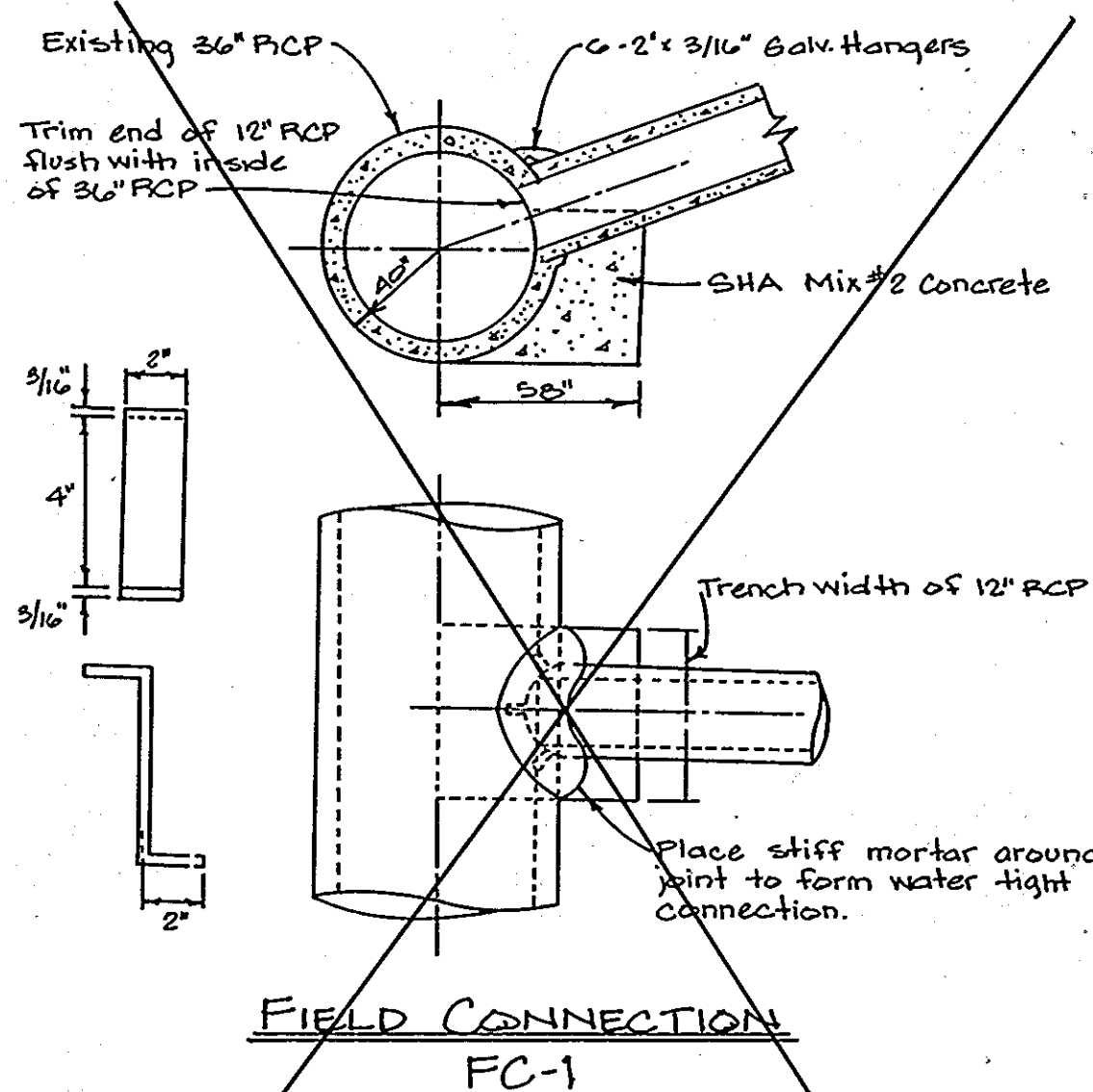
No.	TYPE	INN. IN	INN. OUT	TSP EL.	STD. No.
I-1	Yard Inlet	—	353.45	357.80	SD 4-14
M-1	4' Brick MH	352.70	352.50	359.40	G 5.01
M-2	4' Brick MH	352.01	349.94	360.95	G 5.01
M-3	4' Brick MH	347.85	347.78	358.00	G 5.01
M-4	4' Brick MH	347.16	347.12	353.20	G 5.01
I-2	A-5 Inlet	—	355.15	358.4	

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 Columbia, Md. 21044

Contract Purchaser Parcel B:  
 C&P Telephone Company  
 Constellation Place  
 1 E. Pratt Street  
 Baltimore, Md. 21202



**STORM DRAIN PROFILE**  
 SCALE: HORIZ. 1" = 30'  
 VERT. 1" = 5'  
 V<sub>P</sub> = PARTIAL DEPTH VELOCITY



**DETAIL OF CURB OPENING**  
 Scale: 1/2" = 1'

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 5-29-86



DATE	SYMBOL	REVISION DESCRIPTION	INITIALS
7/1/86	A	Changed Titleblock Info	MSB

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
 J. Helms 7/1/86  
 US Soil Conservation Service Date

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Stephen L. Penick 7/1/86  
 Howard Soil Conservation District Date

PIPE VELOCITIES ON PROFILE		DATE
8-21-86		

ADDRESS CHART	
PARCEL NO. B	STREET ADDRESS 6730 Alexander Bell Dr.

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS  
 LAND SURVEYORS  
 1029 North Calvert Street  
 Baltimore, Maryland 21202 301/837-0194

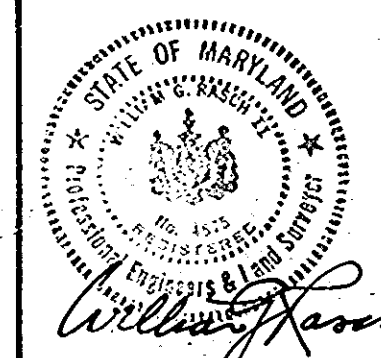
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROADS.  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 Director: [Signature] 7-2-86  
 Chief, Bureau of Engineering: [Signature] 7-2-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature] 7-9-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 Chief, Division of Land Development and Zoning Administration: [Signature] 7-10-86  
 Planning Director: [Signature] 7-10-86

DEVELOPER'S CERTIFICATION  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.  
 A. Randolph Kaneko 3/13/86  
 A. RANDOLPH KANEKO \*6557 DATE

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 William G. Rasch II 6/16/86  
 WILLIAM G. RASCH II NO. 4575 DATE



STORM DRAIN PROFILES & DETAILS  
 VERT. ZON  
 C&P OF MARYLAND, INC.  
 SNOWDEN RIVER O.R.M.  
 TAX AND ZONING MAP 36 PARCEL NO. B  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' FEBRUARY 13, 1986

SHEET 2 OF 6  
 DESIGNED BY: L.B.B.  
 DRAWN BY: P.S.  
 CHECKED BY: W.G.R.

**CONTOUR LEGEND:**

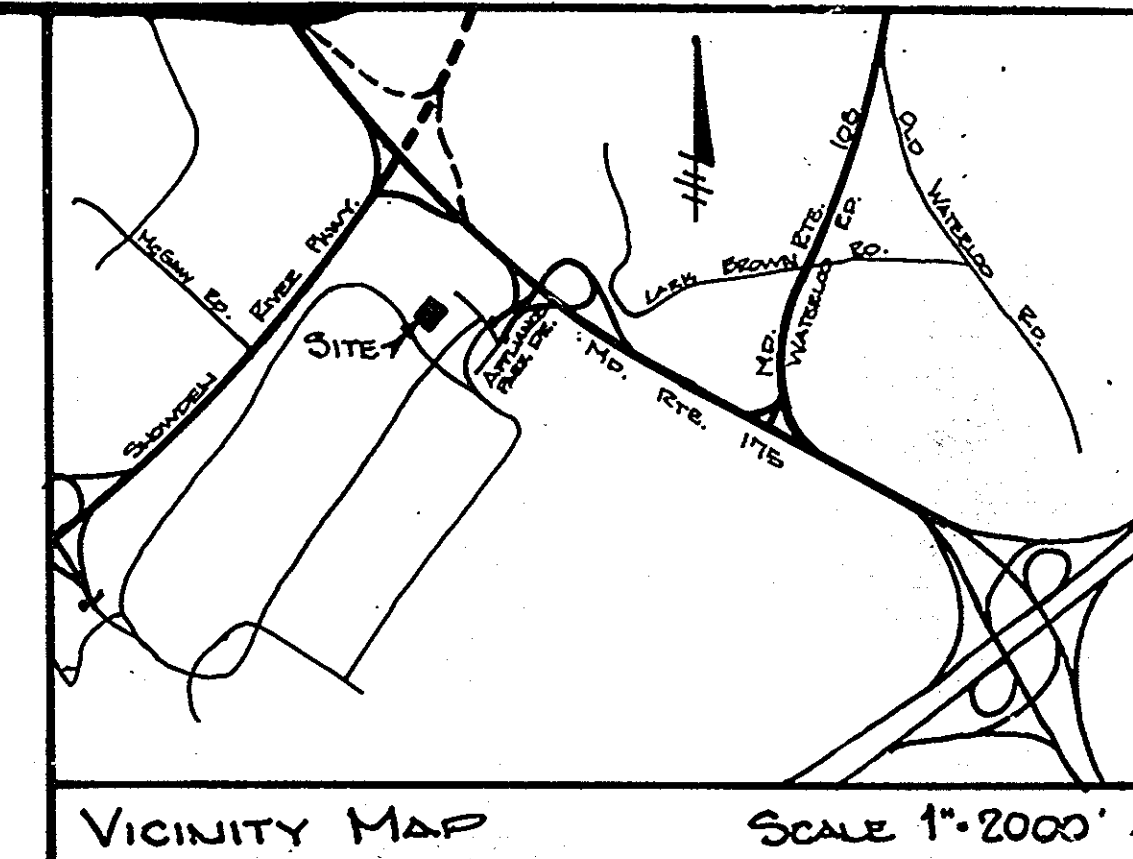
- Existing Contours
- Proposed Contours by Others (Under Construction March, 1986)
- Proposed Contours

**SITE ANALYSIS**

- a. Area of property: 1.60 acres ±
- b. Proposed use: Telephone Switching Exchange
- c. Zoning: M-1
- d. Building coverage: 11,439 S.F. (16.41%)
- e. Area of parking lot: 8,316 S.F.
- f. Area and percentage of landscaped islands within the parking lot: 546 S.F. (6.57%)
- g. Open space (green area) to remain: 1.15 acres ±
- h. Number of employees: 4
- i. Parking spaces required: 4
- j. Parking spaces provided: 6
- k. Tax Map No. 36

**GENERAL NOTES**

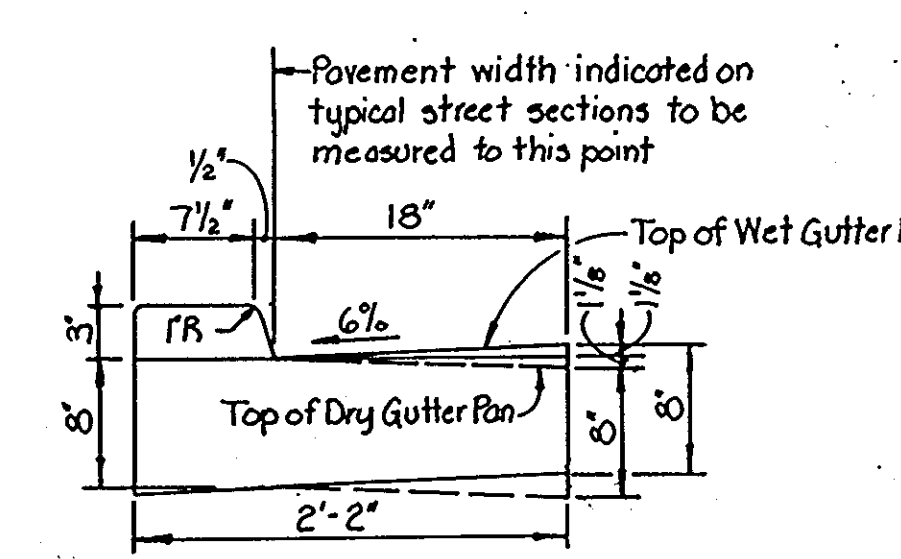
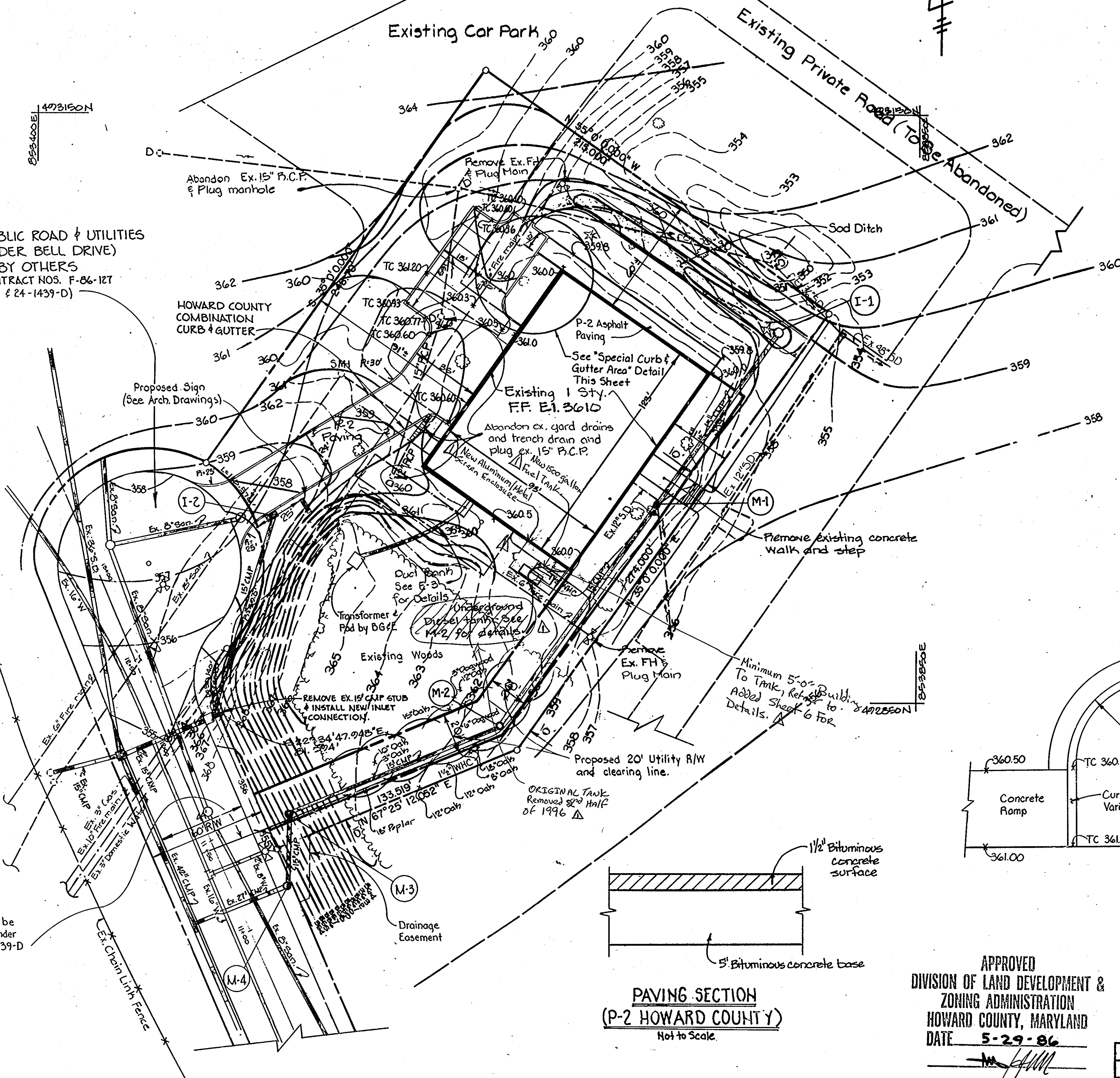
1. Contractor to verify invert elevation of the existing 12" RCP roof drain leader prior to beginning any other storm drain construction.
2. All existing utilities on this site, with the exception of the existing sewer house connection, including storm drains, are to be abandoned at the property line by others. All manholes, inlets, fire hydrants, etc. shall be removed to a point 30 inches below finished grade, and all pipes connected thereto shall be plugged with an 8-inch minimum thickness of brick and mortar. Any remaining manhole or inlet floor slabs shall be broken up and the structure shall be backfilled with suitable material.
3. Where existing utility lines are in conflict with proposed work, the existing line shall be removed to the extent necessary and the remaining openings plugged with an 8-inch minimum thickness of brick and mortar.
4. All existing bituminous paving west of the building to be removed to subgrade and disposed of off-site.



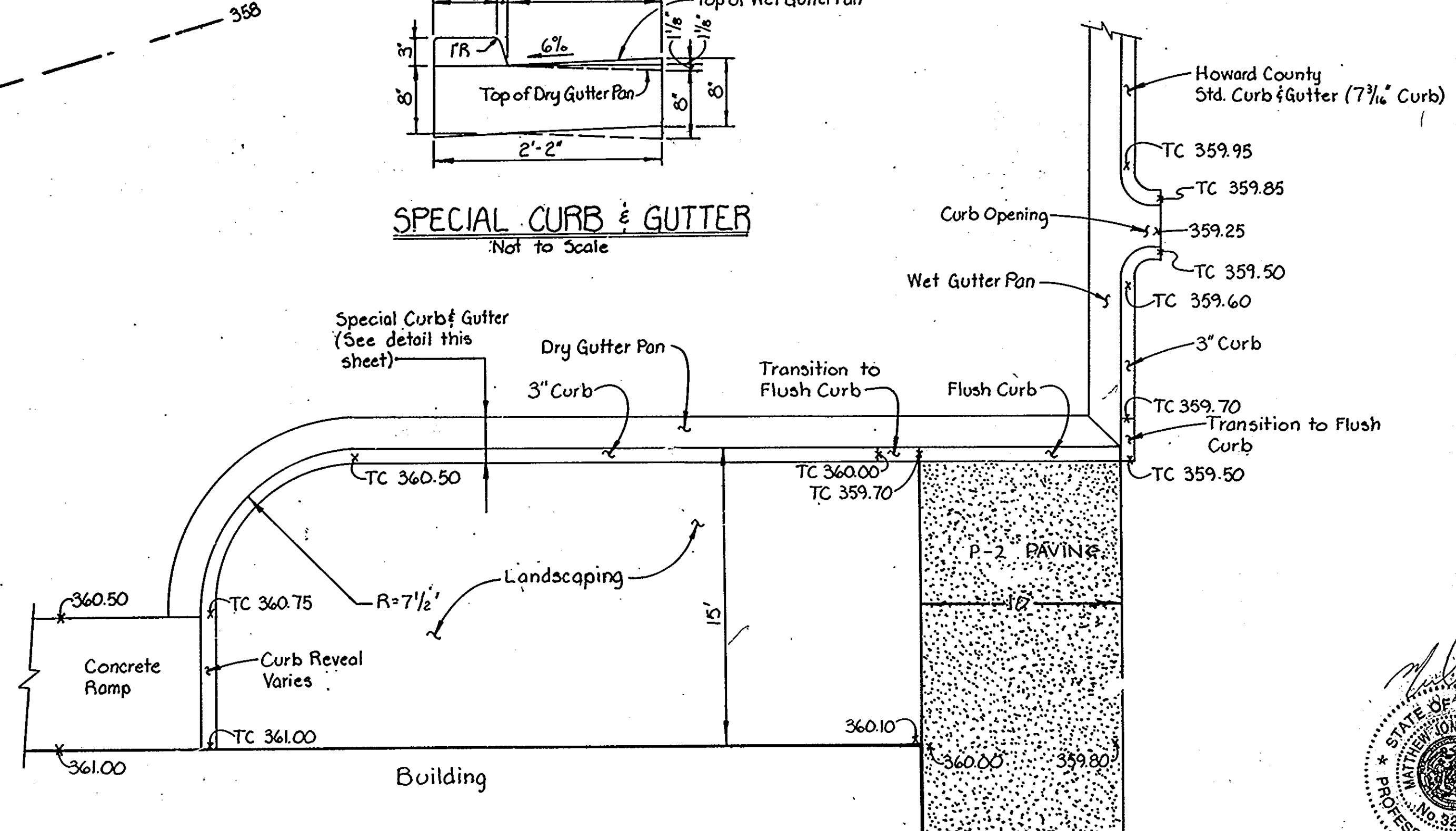
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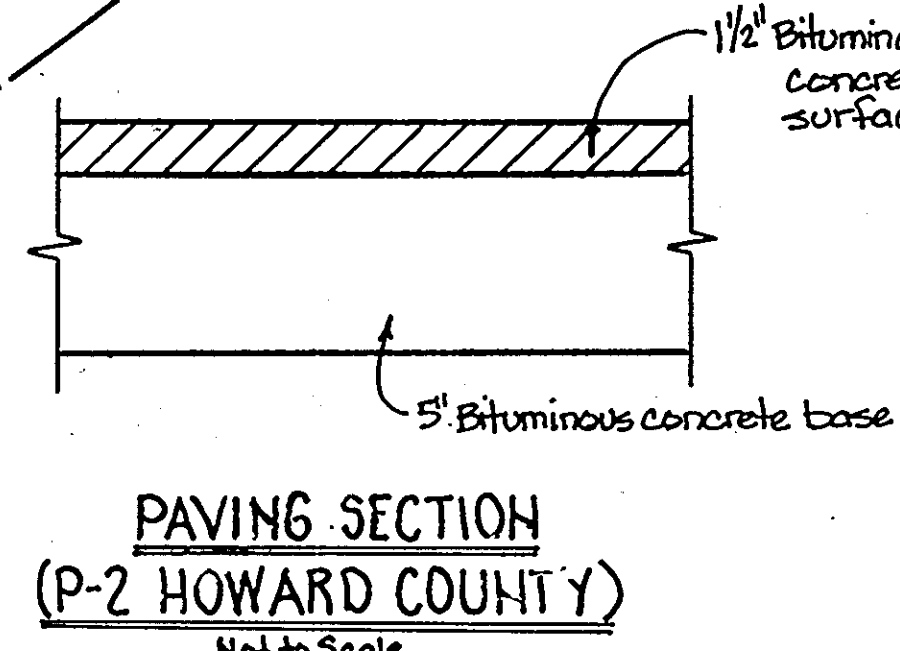
PROPOSED PUBLIC ROAD & UTILITIES  
(ALEXANDER BELL DRIVE)  
BY OTHERS  
(CONTRACT NOS. F-86-127  
& 24-1439-D)



**SPECIAL CURB & GUTTER**  
Not to Scale



**SPECIAL CURB & GUTTER AREA**  
Scale: 1"=5'



**PAVING SECTION (P-2 HOWARD COUNTY)**  
Not to Scale.

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-29-86

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
B	6730 Alexander Bell Dr.

SUBDIVISION NAME: COLUMBIA GATEWAY	SECT./AREA LOT/PARCEL NO. B
PLAT OR L.F. BLOCK ZONE TAX/ZONE MAP ELEC. DIST. CENSUS TR.	6766 24 M-1 36 6 606502
WATER CODE: E06	SEWER CODE: 3390000

DATE	REVISION	REVISOR DESCRIPTION	INITIALS
7/1/86	A	ADDED A 1500 GALLON FUEL TANK AND ALUMINUM ENCLOSURE AND CHANGED TILE LOCK TOPS	MSB

Reviewed for Howard County Soil Conservation District and meets technical requirements.  
U.S. Soil Conservation Service  
Date: 7/1/86

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Date: 7/1/86

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 301/837-0194

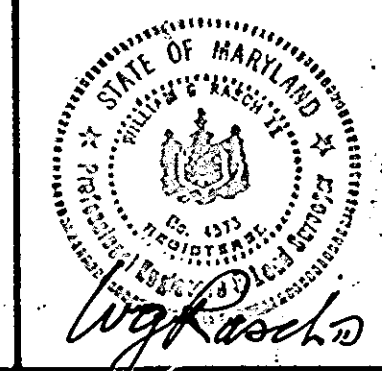
APPROVED: For public water, public sewerage, storm drainage, and roads.  
Howard County Department of Public Works  
Director: [Signature] 7-3-86  
Date: 7-3-86  
Chief, Bureau of Engineering: [Signature] 7-3-86  
Date: 7-3-86

APPROVED: For public water and public sewerage systems.  
Howard County Health Department  
County Health Officer: [Signature] 7-8-86  
Date: 7-8-86

APPROVED:  
Howard County Office of Planning and Zoning  
Chief, Division of Land Development and Zoning Administration: [Signature] 7-10-86  
Date: 7-10-86  
Planning Director: [Signature] 7-10-86  
Date: 7-10-86

DEVELOPER'S CERTIFICATION  
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Department of Natural Resources approved training program for the control of any sediment erosion before beginning the project.  
A. RANDOLPH KANEKO \*6557 2/13/86  
Date: 2/13/86

ENGINEER'S CERTIFICATION  
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
WILLIAM G. RÖSCH II \*4575 6/16/86  
Date: 6/16/86



SITE PLAN  
C&P OF MARYLAND, INC.  
SNOWDEN RIVER O.R.M.  
TAX AND ZONING MAP 36 SIXTH ELECTION DISTRICT SCALE: 1"=30'  
PARCEL NO. B HOWARD COUNTY, MARYLAND FEBRUARY 13, 1986

SHEET 1 OF 6  
DESIGNED BY: L.B.B.  
DRAWN BY: P.S.  
CHECKED BY: W.G.R.