

SHEET INDEX

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2	SITE DEVELOPMENT PLAN
3	DETAILS AND PROFILES
4	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
5	SEDIMENT CONTROL DETAILS
6	PLANTING PLAN

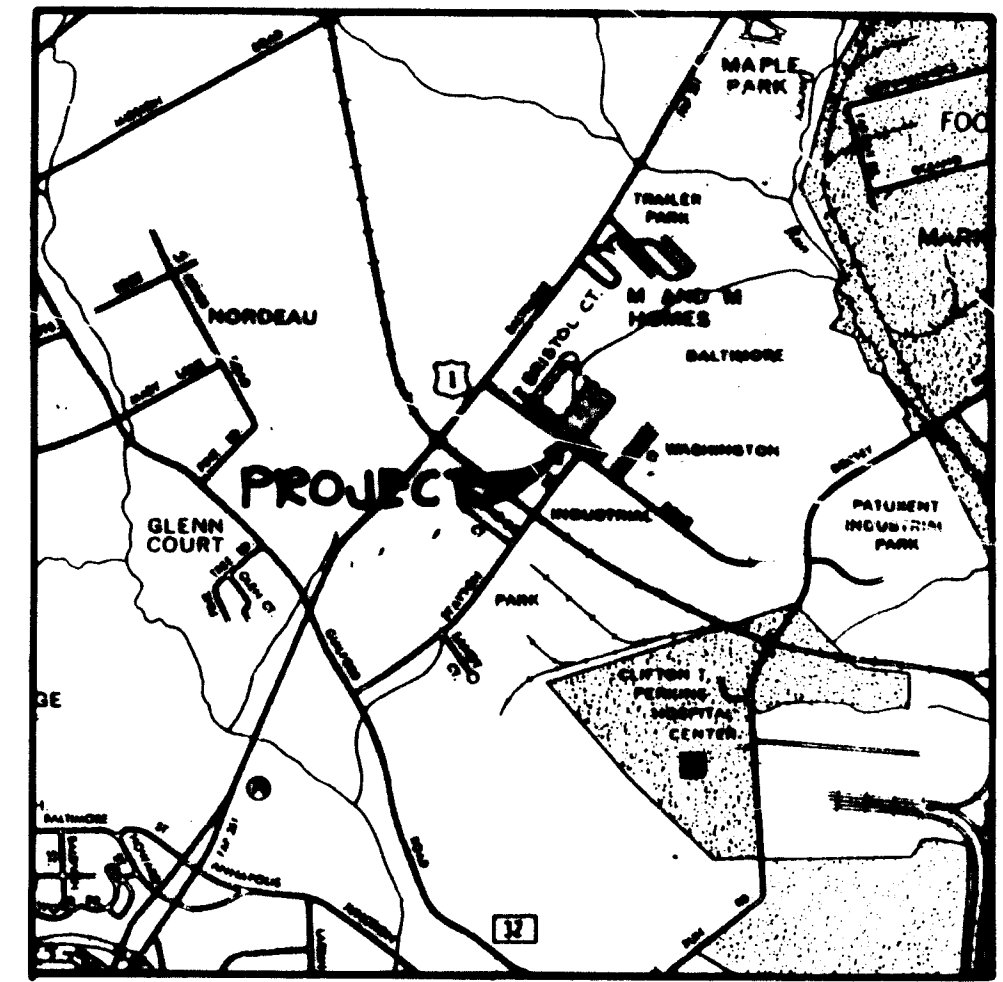
SITE DEVELOPMENT PLAN PARCEL G-3

BALTIMORE WASHINGTON INDUSTRIAL PARK

SECTION 1 BLOCK E

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

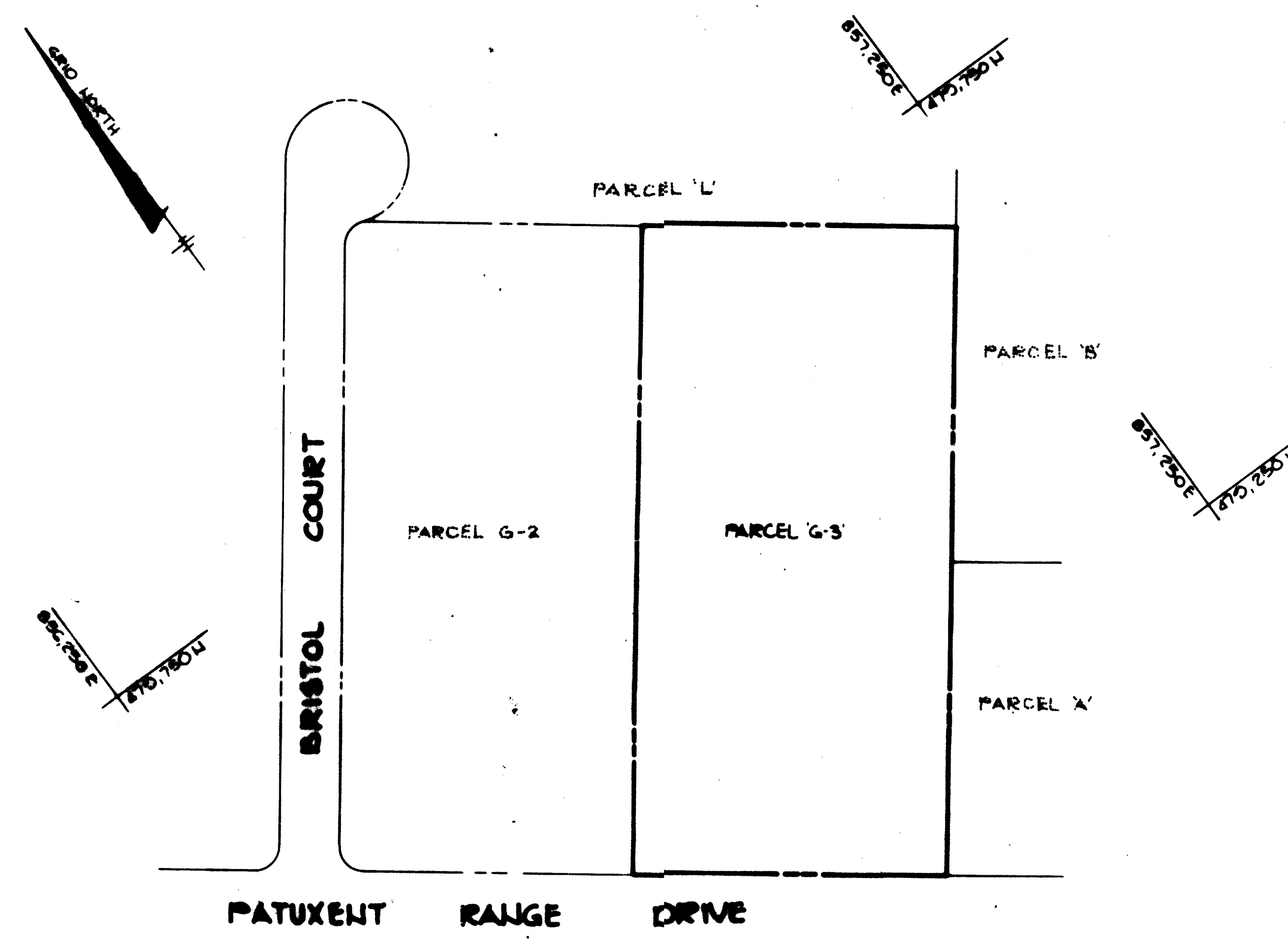
GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATER TIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	559-0100
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SURFACE.
- TOPO TAKEN FROM FIELD SURVEY DATED FEBRUARY, 1984 BY THE RIEMER GROUP, INC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4 IN VOLUME I OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SITE TABULATION

ZONING	M-2
TOTAL AREA	4.575 AC. (199,287 SF.)
BUILDING COVERAGE (145' X 525')	76,125 SF. (38%)
PARKING	
11,400 SF. OFFICE USE	
0 1 PERSON/150 SF. = 76 EMPLOYEES	
0 7 CAR/10 EMPLOYEES	= 54 SPACES
64,725 SF. WAREHOUSE USE	
0 65 EMPLOYEES/MAJOR SHIFT	
0 1 CAR/2 EMPLOYEES	= 33 SPACES
TOTAL REQUIRED	87 SPACES
PARKING PROVIDED	100 SPACES
OPEN SPACE REQUIRED	39,857 SF. (20%)
OPEN SPACE PROVIDED	64,907 SF. (33%)



PLAN
SCALE: 1"=100'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John P. ... 0-12-84
HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Arthur ... 6-13-84
PLANNING DIRECTOR DATE

John ... 6-13-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John F. ... 6-8-84
DIRECTOR DATE

William ... 6-7-84
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
B.W.I. WAREHOUSE #1
LIMITED PARTNERSHIP
710 AMERICAN CITY BUILDING
COLUMBIA, MARYLAND 21044

PROJECT: B.W.I.P. PARCEL G-3

AREA RECORD PLAT RECORDING REF. NO. 5735
BALTIMORE-WASHINGTON INDUSTRIAL PARK PARCEL G-3
BLOCK 'E' TAX MAP NO. 48 6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

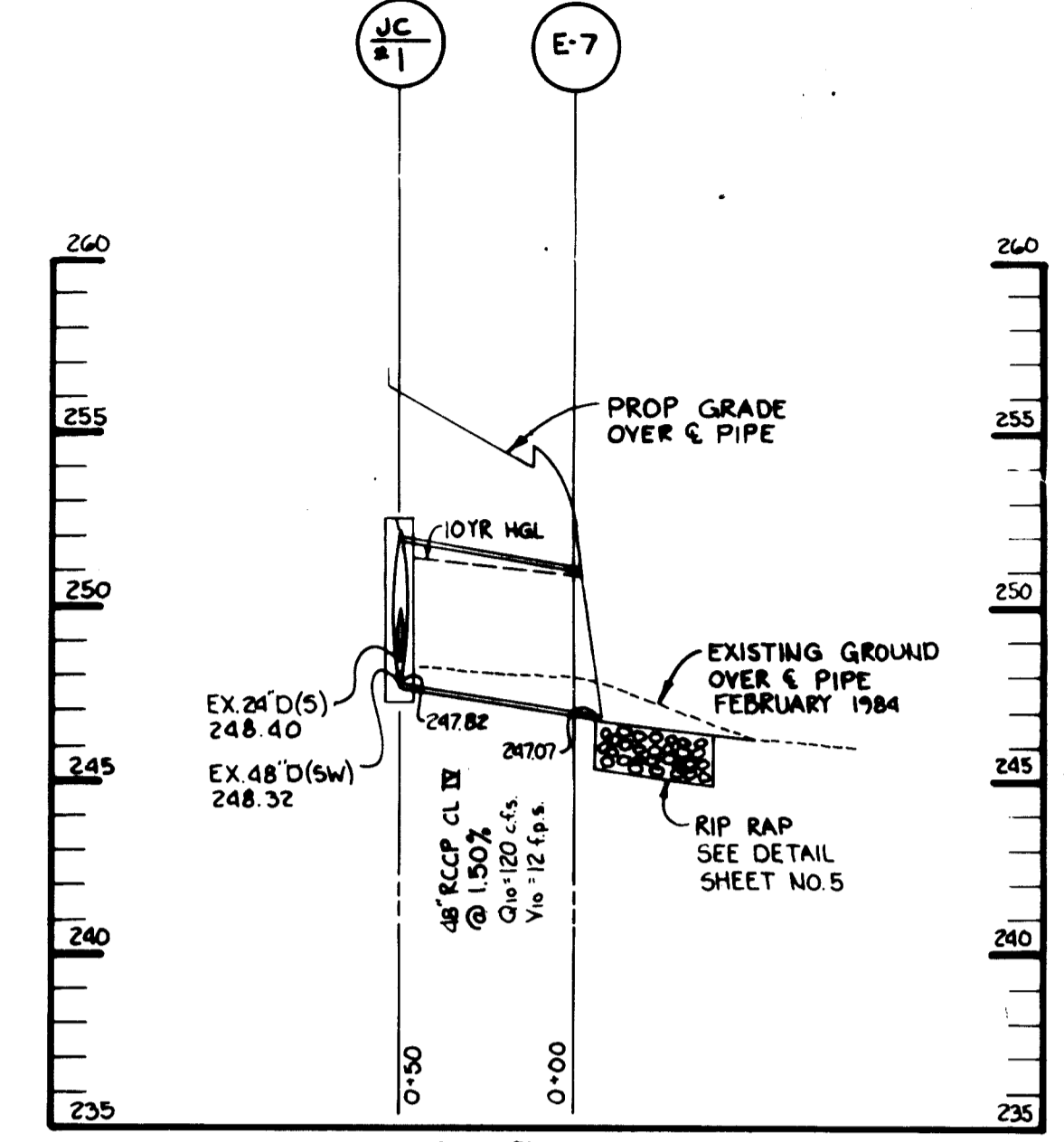
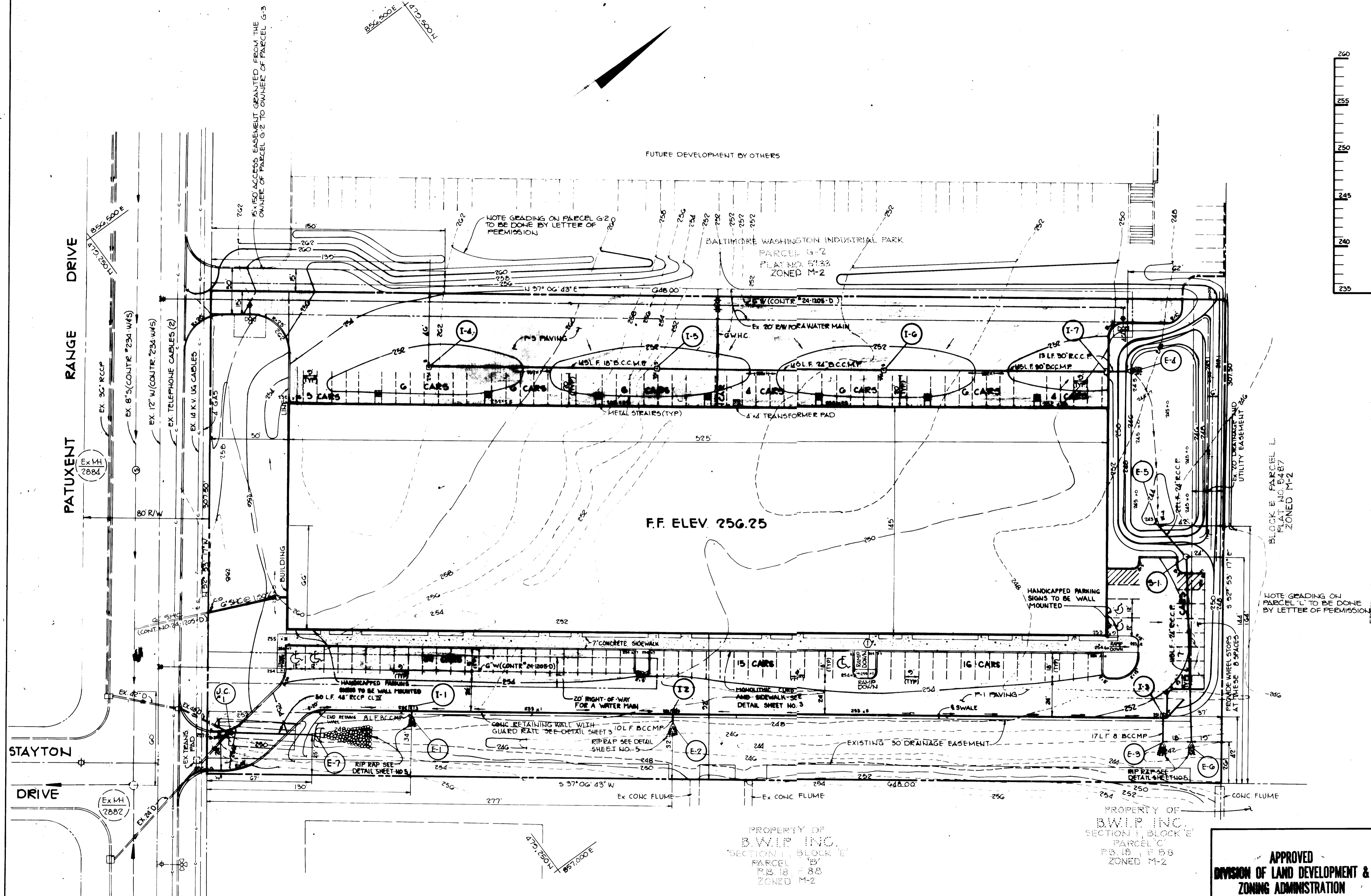
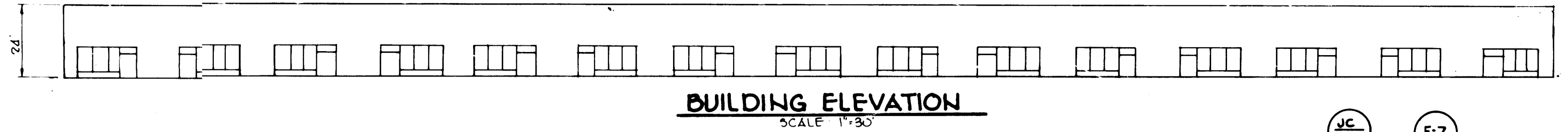
9-11-84
Sheet #2 Revised

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-11-84
M. ...

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland, 21041 301 461-2690

5-31-84
DATE

DESIGNED BY: V.L.S.
DRAWN BY: DAKI
PROJECT NO: 008900
DATE: 3-6-84
SCALE: AS SHOWN
DRAWING NO. 1 OF 6
Richard S. ...



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
John Beck 6-12-84
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Arthur Amshbarch 6-13-84
 PLANNING DIRECTOR DATE
Shirley Messerman 6-15-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John Nimmey 6-8-84
 DIRECTOR DATE
Deborah B. Reed 6-7-84
 CHIEF, BUREAU OF ENGINEERING DATE

3-11-84 CHANGED HANDICAPPED RAMP
 DATE NO REVISION

OWNER/DEVELOPER
 B.W.I. WAREHOUSE #1
 LIMITED PARTNERSHIP
 710 AMERICAN CITY BUILDING
 COLUMBIA, MARYLAND 21044

PROJECT
 B.W.I.P. PARCEL G-3

TITLE
 SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. - A Land Planning, Design & Civil Engineering Firm
 8659 Baltimore National Pike, Ellicott City, Maryland, 21043 - 301-461-2000

DESIGNED BY J.S.S.
 DRAWN BY J.S.K.
 PROJECT NO 008000
 DATE 3-6-84
 SCALE 1"=30'
 DRAWING NO 2 OF 6

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 5-11-84
John Hum

PROPERTY OF
 B.W.I.P. INC.
 SECTION 1, BLOCK 'E'
 PARCEL 'B'
 P.B. 18, P.B. 88
 ZONED M-2

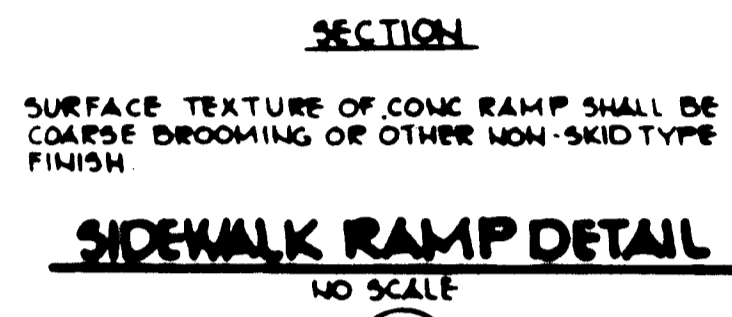
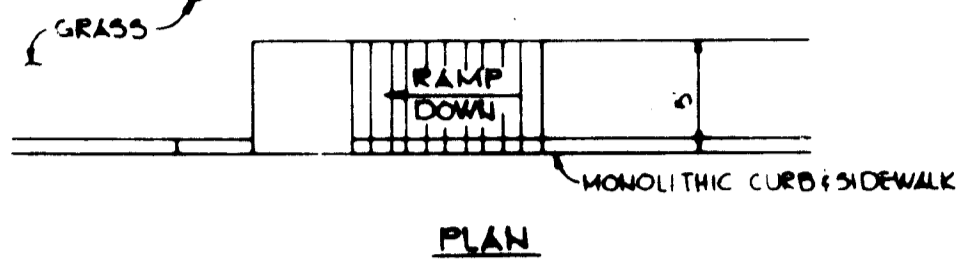
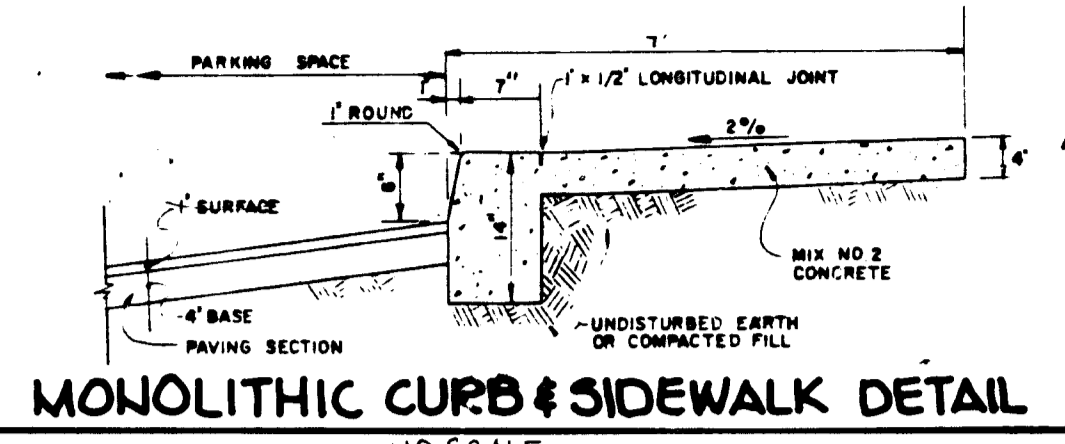
AS-BUILT SURVEY CERTIFIED BY
 ARTHUR E. MURPHY III, P.E.
 NO. 8782 ON 5-23-89

9-11-84

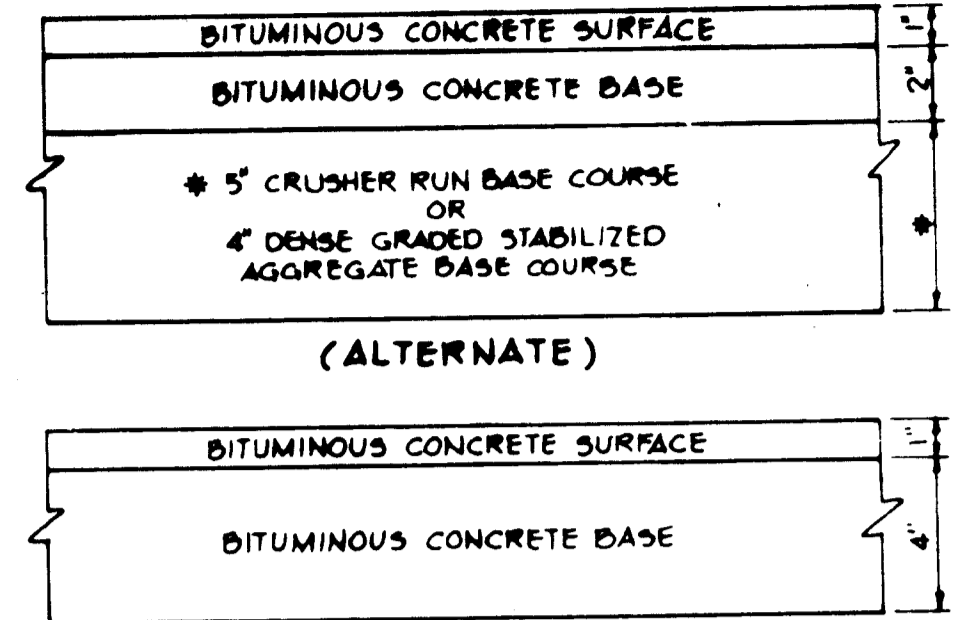
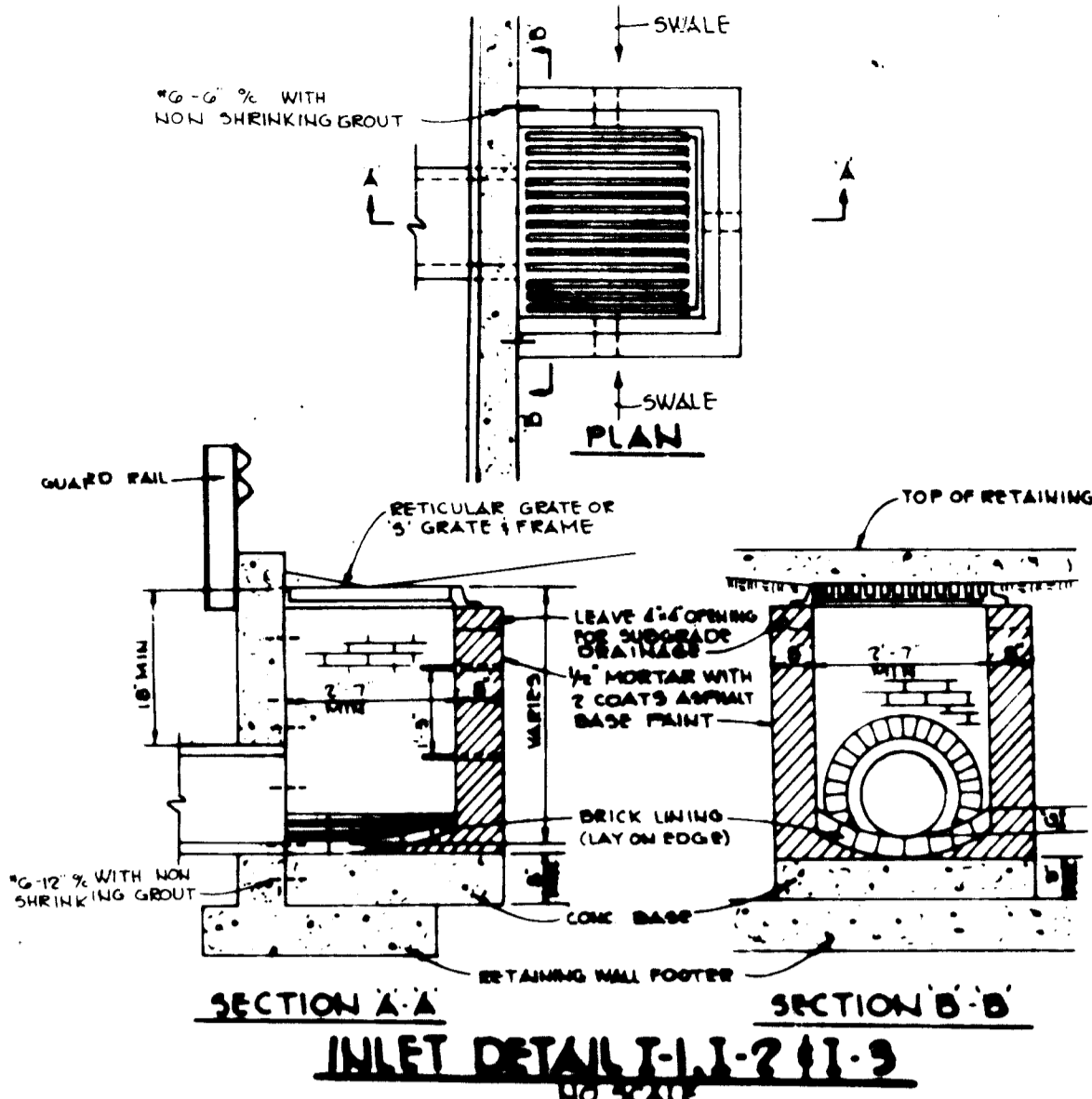
AS-BUILT 5-23-89

SDP-84-224

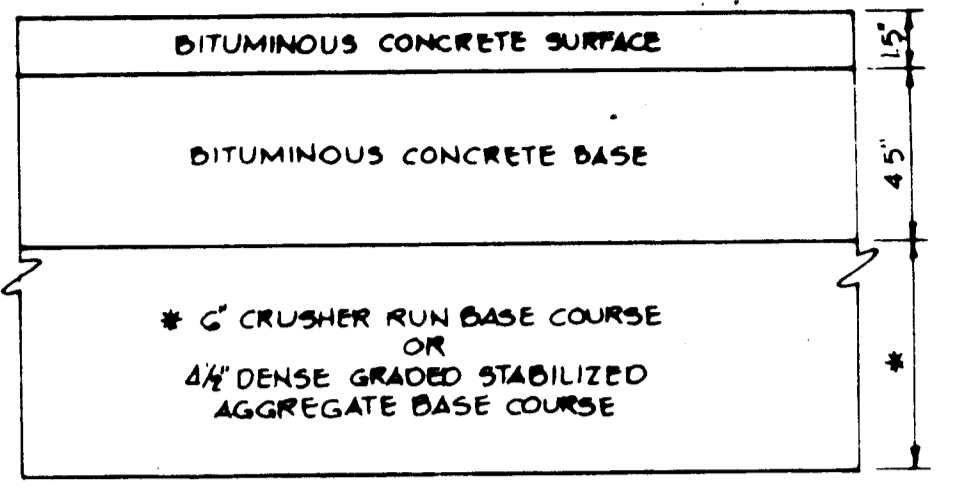
NOTES
 1. LONGITUDINAL JOINT BETWEEN SIDEWALK AND CURB SHALL BE CONTINUOUS AND TO A DEPTH OF 1/4" THE SIDEWALK THICKNESS OR 1" MAX. LONGITUDINAL JOINTS SHALL RUN FROM BACK EDGE OF SIDEWALK CONTINUOUS TO THE BOTTOM FACE OF CURB TO A DEPTH OF 1/4" AND SPACED 5' APART.
 2. PROVIDE 1/2" EXPANSION JOINTS AT 15' INTERVALS. IN LONGITUDINAL JOINTS TO FULL CROSS-SECTION.



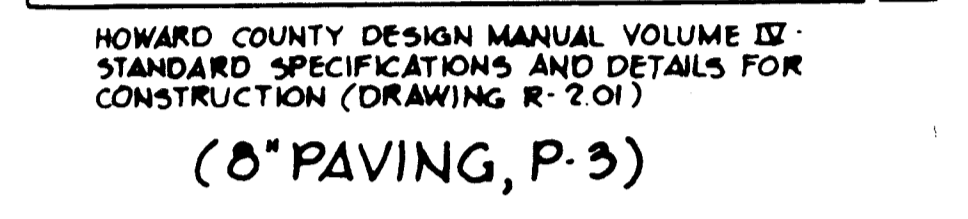
LEGEND AND BORDER - GREEN
 WHITE SYMBOLS ON BLUE BACKGROUND
 BACKGROUND - WHITE



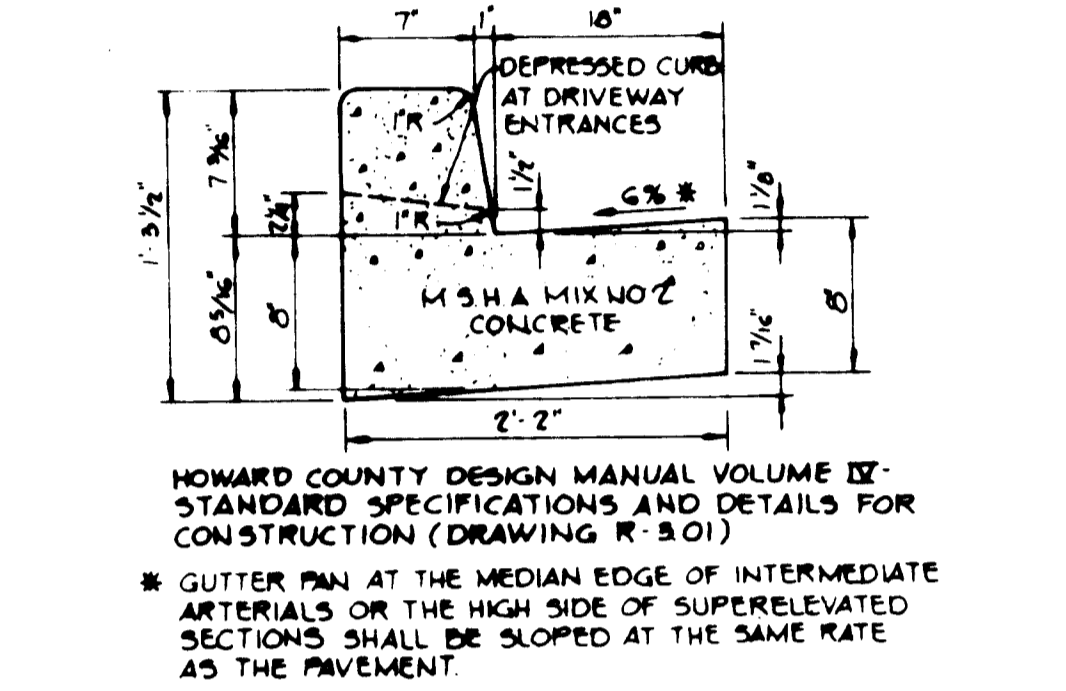
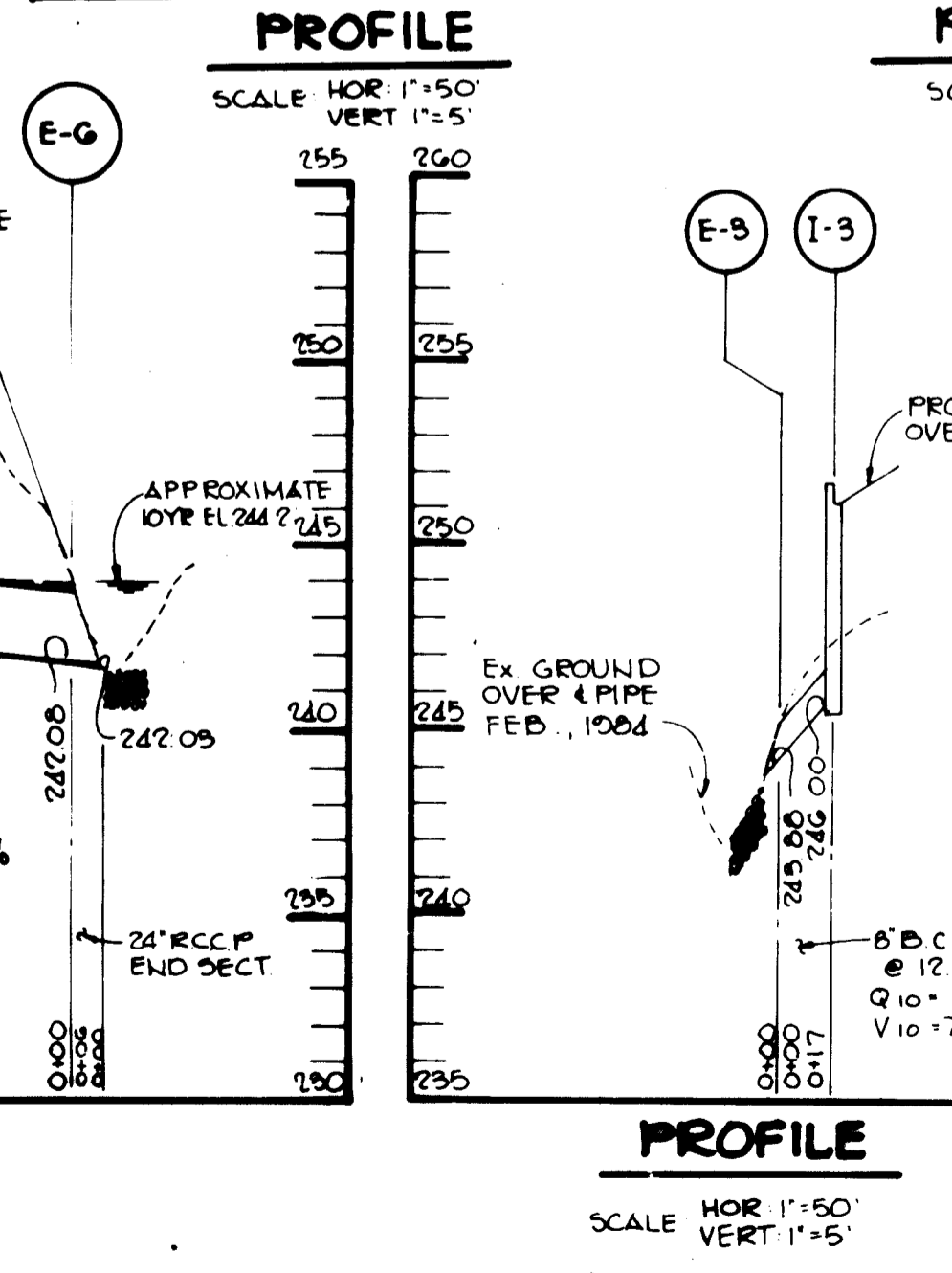
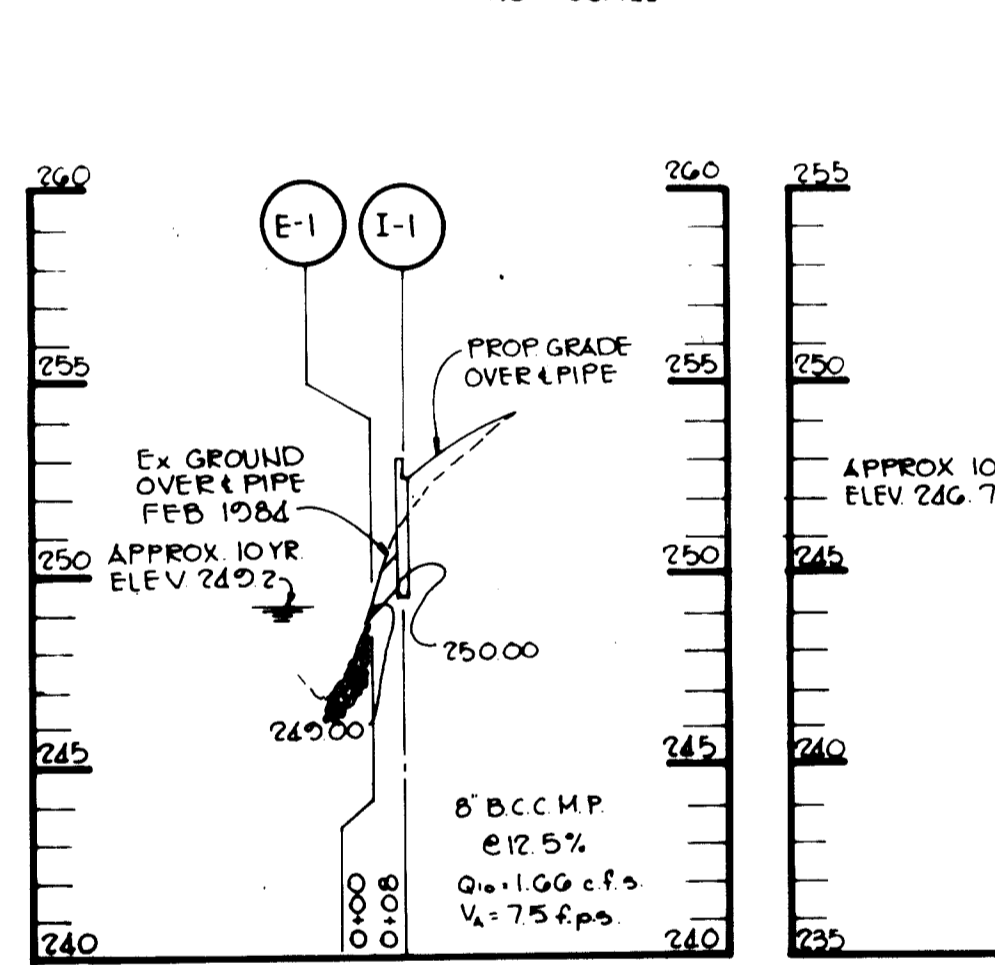
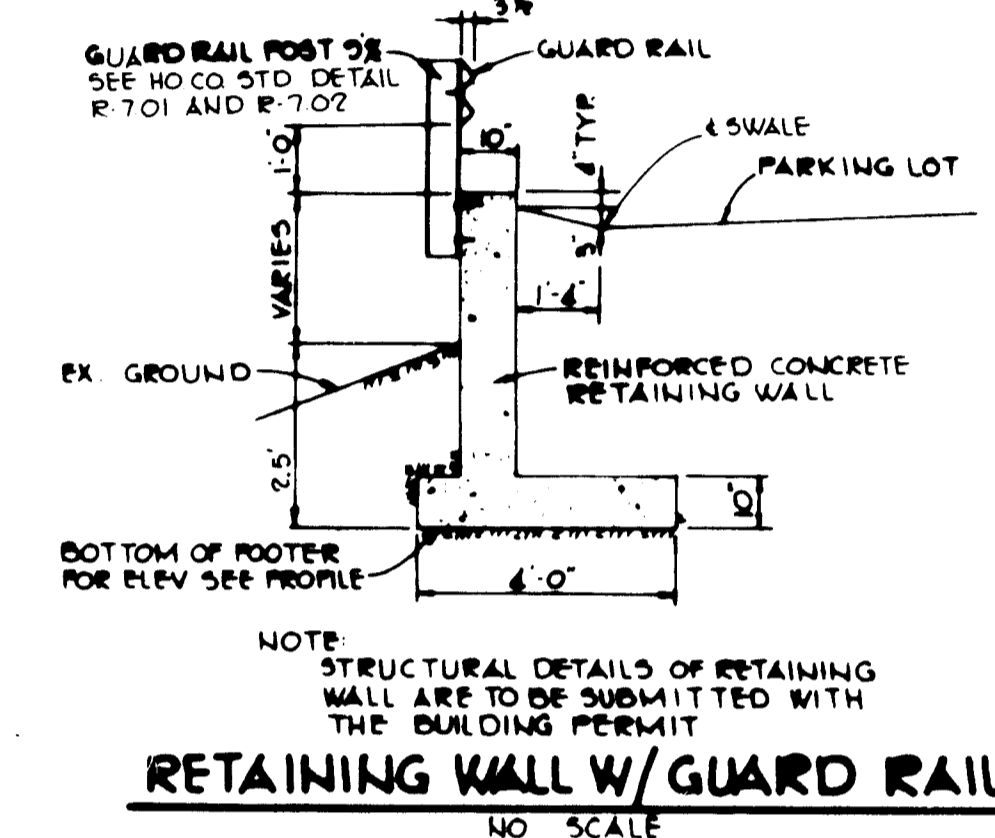
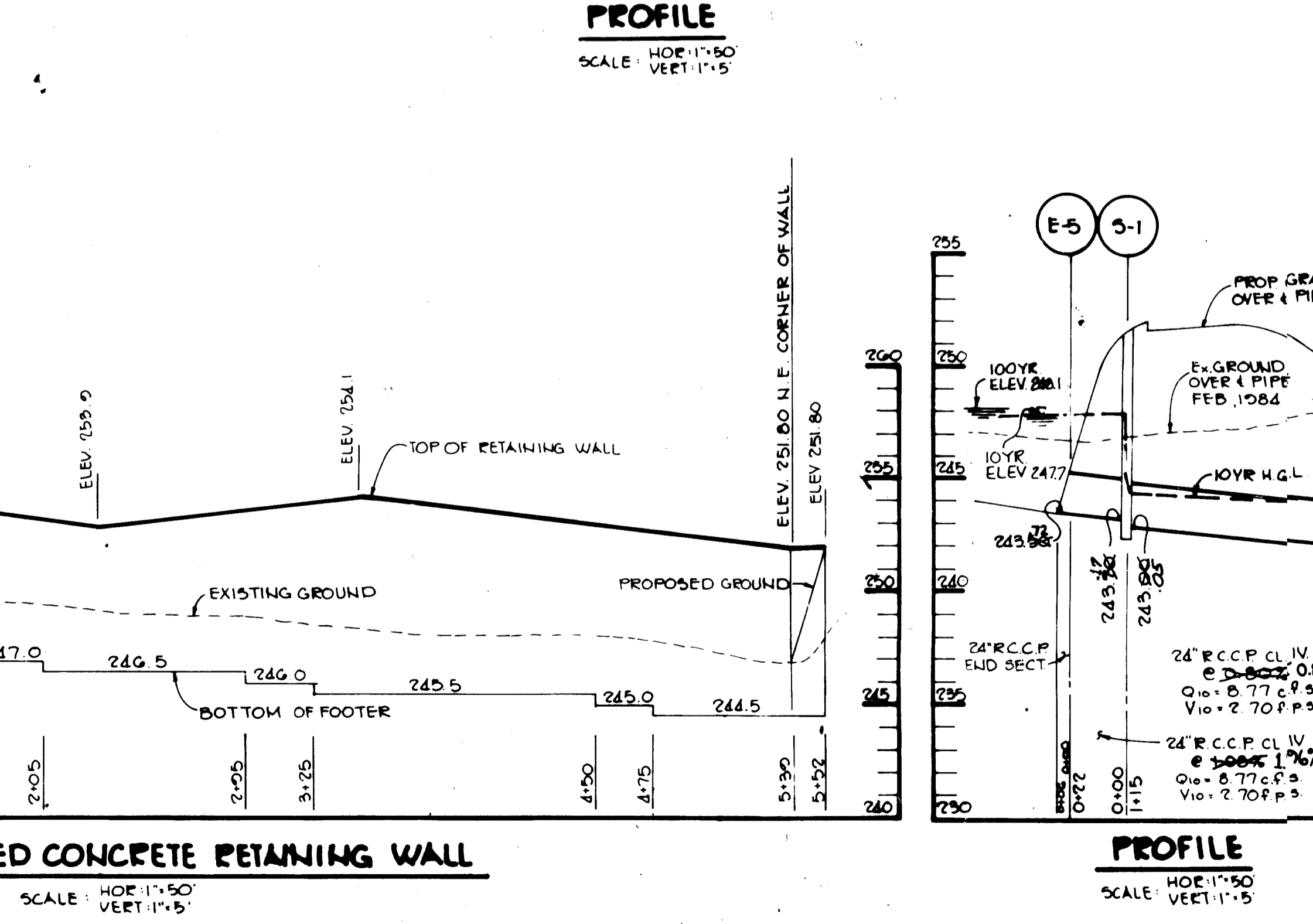
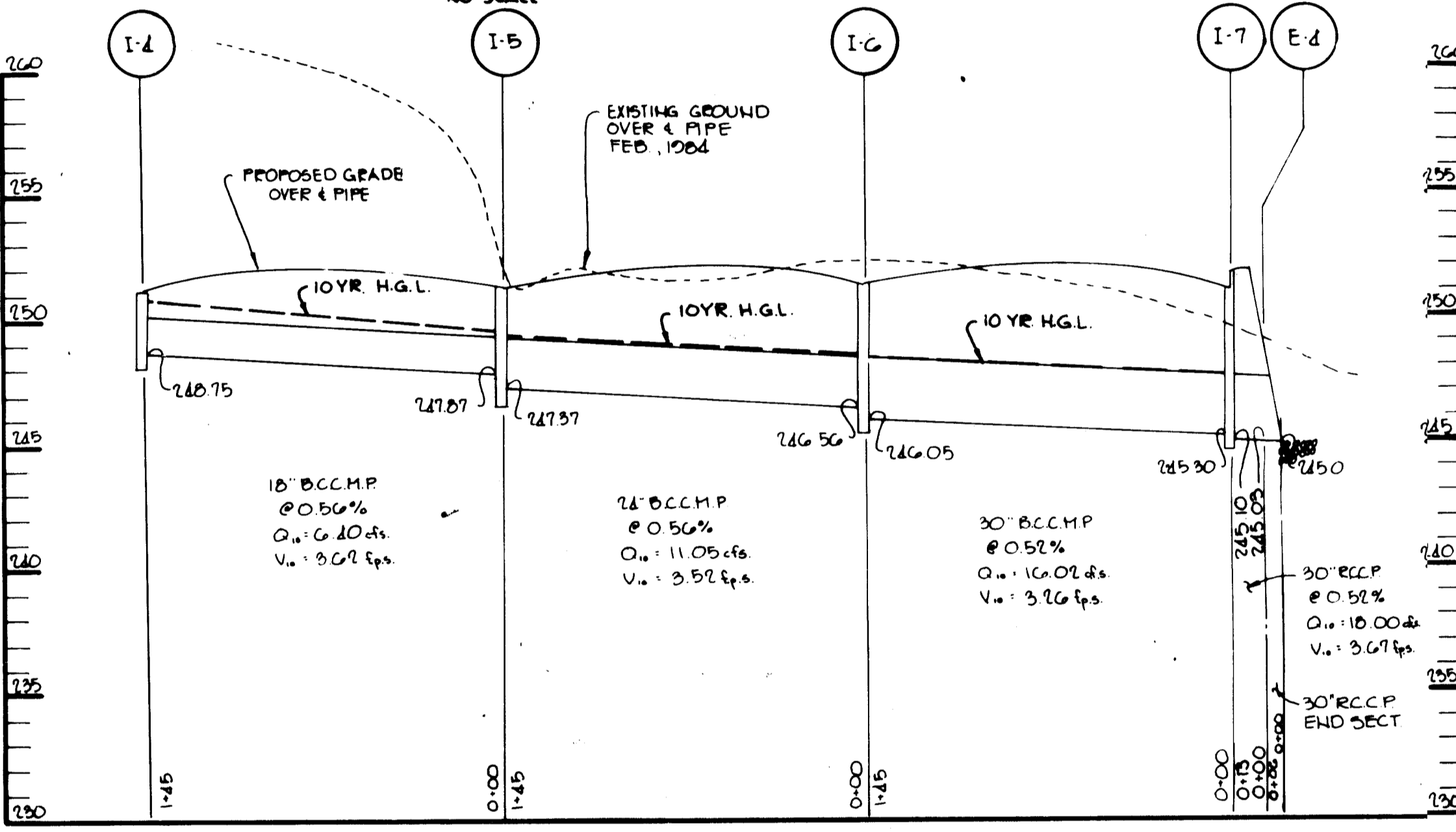
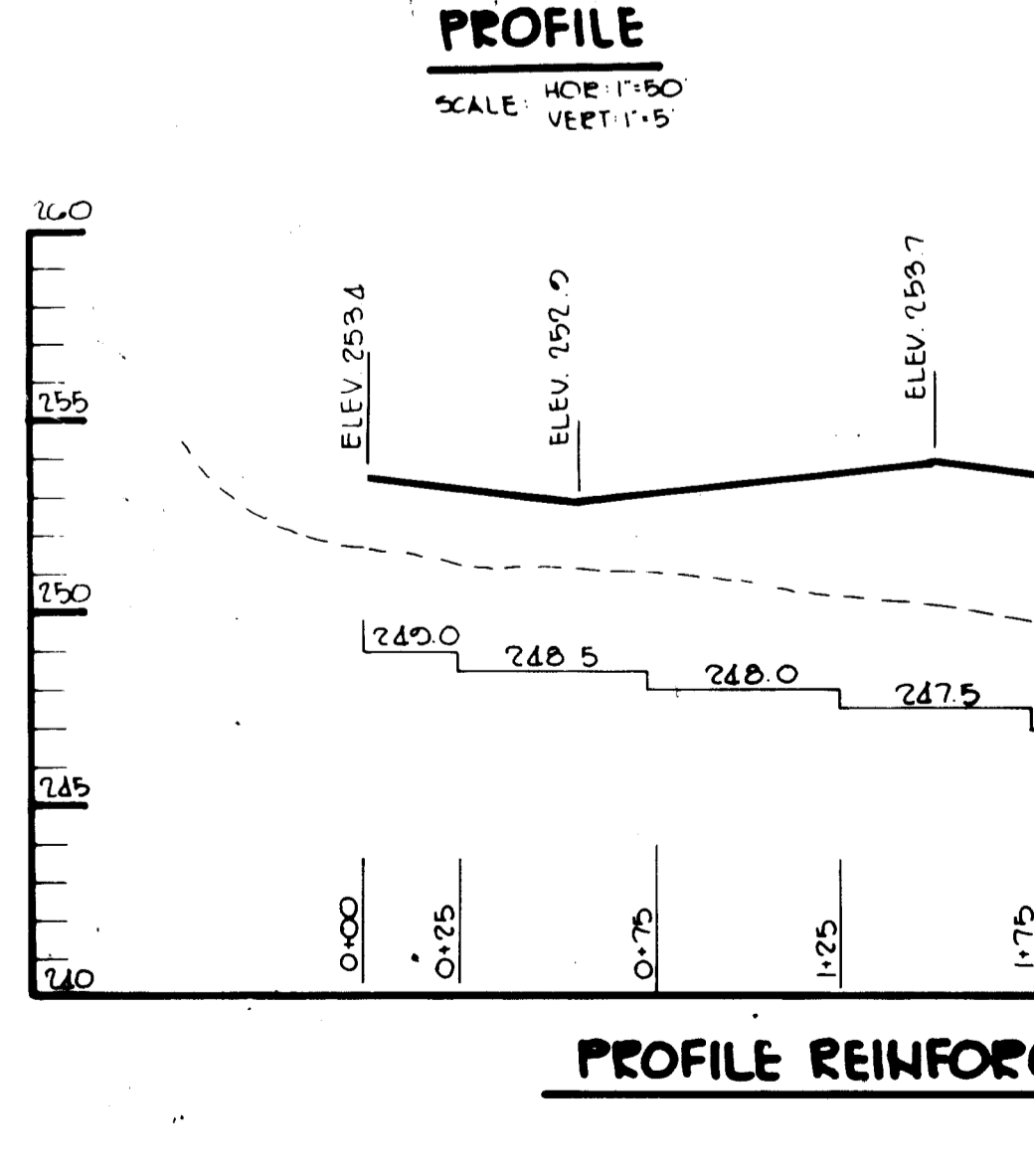
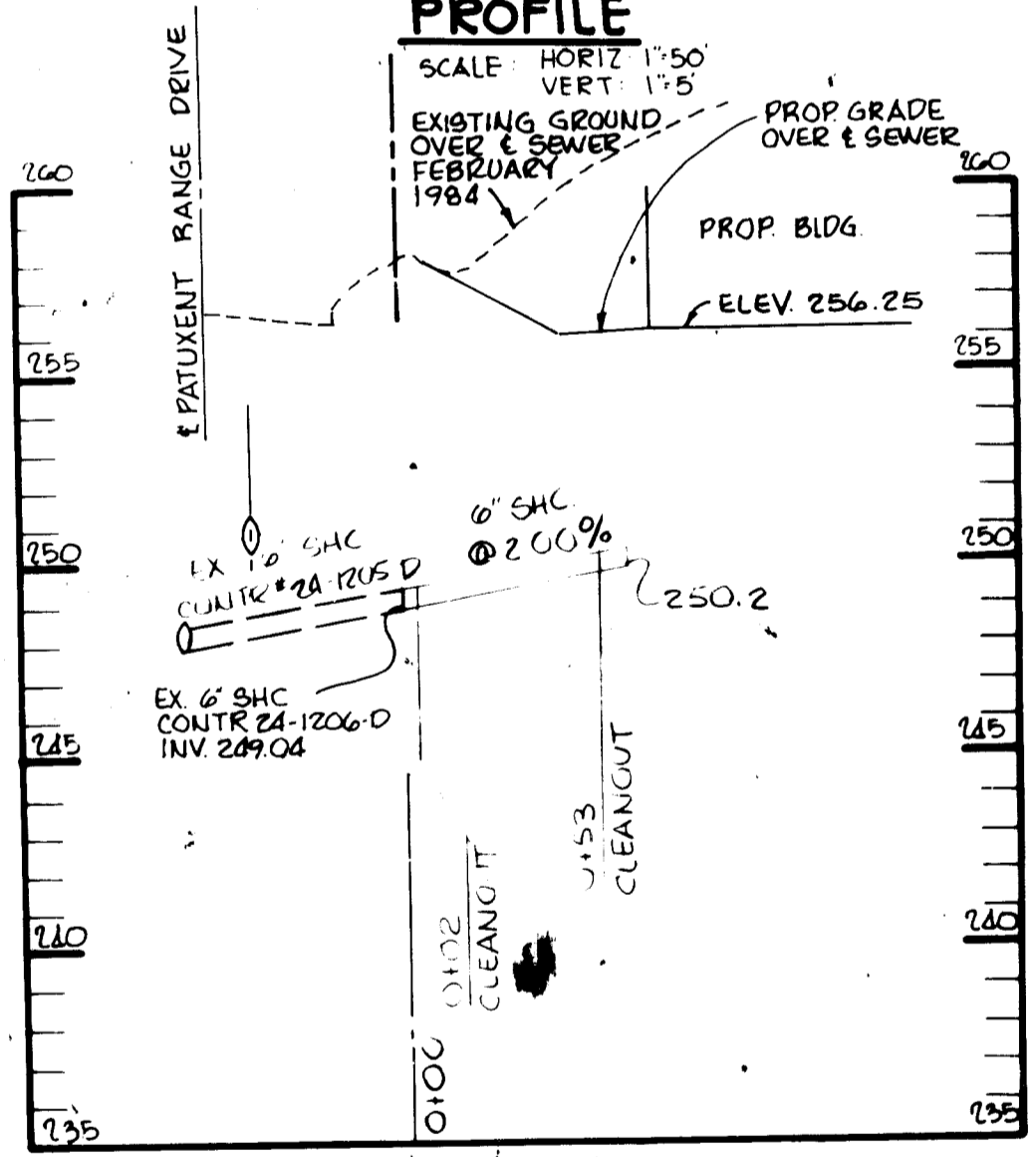
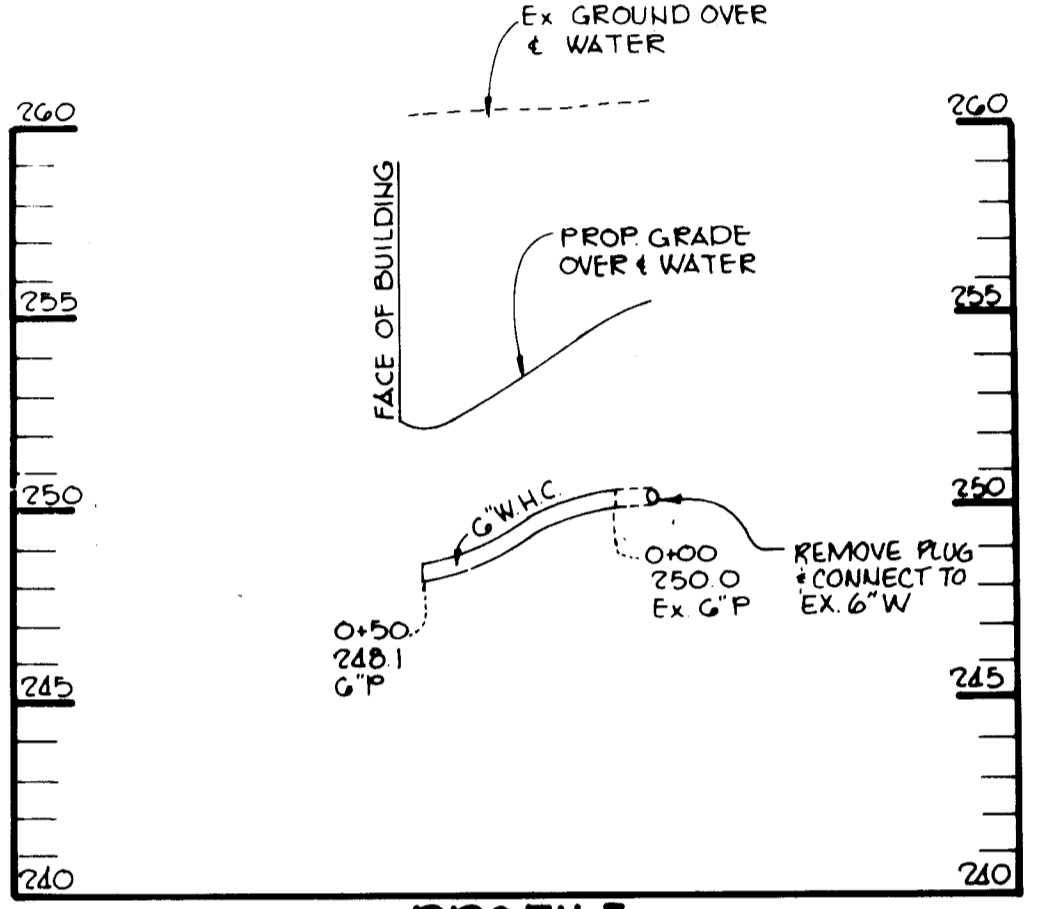
HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
 (5" PAVING, P-1)



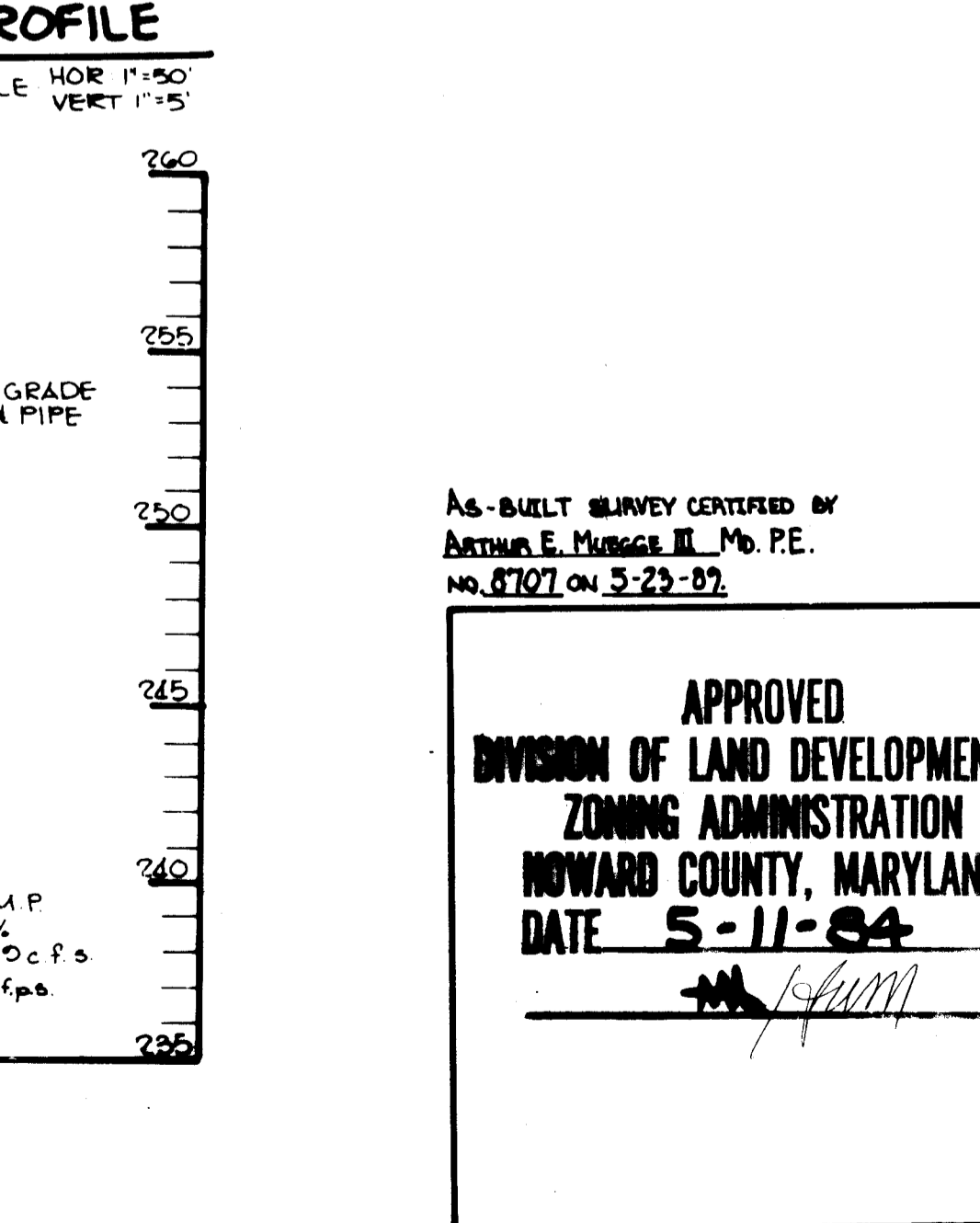
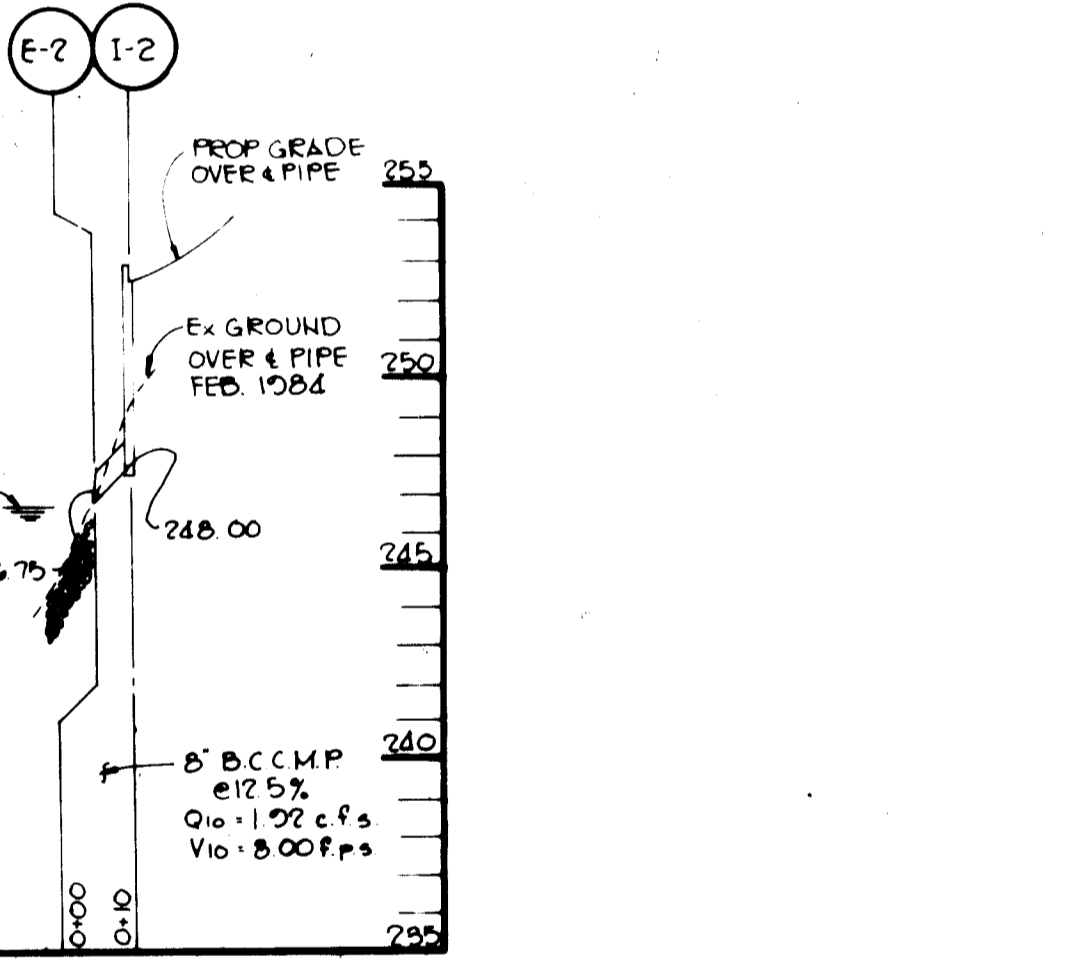
HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
 (5" PAVING, P-1)



HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
 (8" PAVING, P-3)



HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)
 * GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 County Health Officer 6-12-84 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 Acting Planning Director 6-13-84 DATE
 Chief, Division of Land Development and Zoning Administration 6-13-84 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director 6-8-84 DATE
 Chief, Bureau of Engineering 6-7-84 DATE

OWNER/DEVELOPER
 B.W.I. WAREHOUSE #1
 LIMITED PARTNERSHIP
 710 AMERICAN CITY BUILDING
 COLUMBIA, MARYLAND 21044

PROJECT
 B.W.I.P. PARCEL G-3

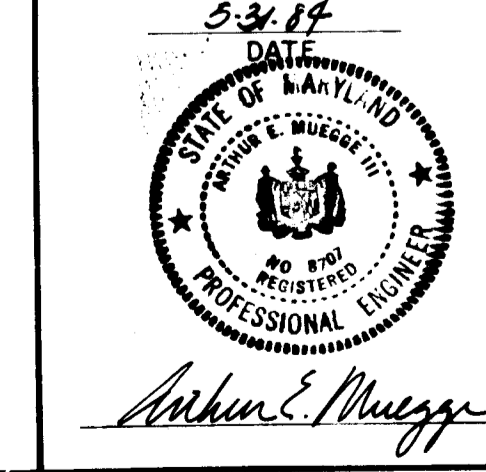
AREA RECORD PLAT RECORDING REF. NO. 5733
 BALTIMORE-WASHINGTON INDUSTRIAL PARK PARCEL G-3
 BLOCK "E" TAX MAP NO. 48 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
 DETAILS

AS-BUILT SURVEY CERTIFIED BY
 Arthur E. Mueggel, III, Md. P.E.
 NO. 8707 ON 5-23-89

AS-BUILT 5-23-89

SDP-84-224



DESIGNED BY V.L.S.
 DRAWN BY W.D.S.
 PROJECT NO 000300
 DATE 9/1/84
 SCALE AS SHOWN
 DRAWING NO. 3 OF 6

SEDIMENT TRAP DATA

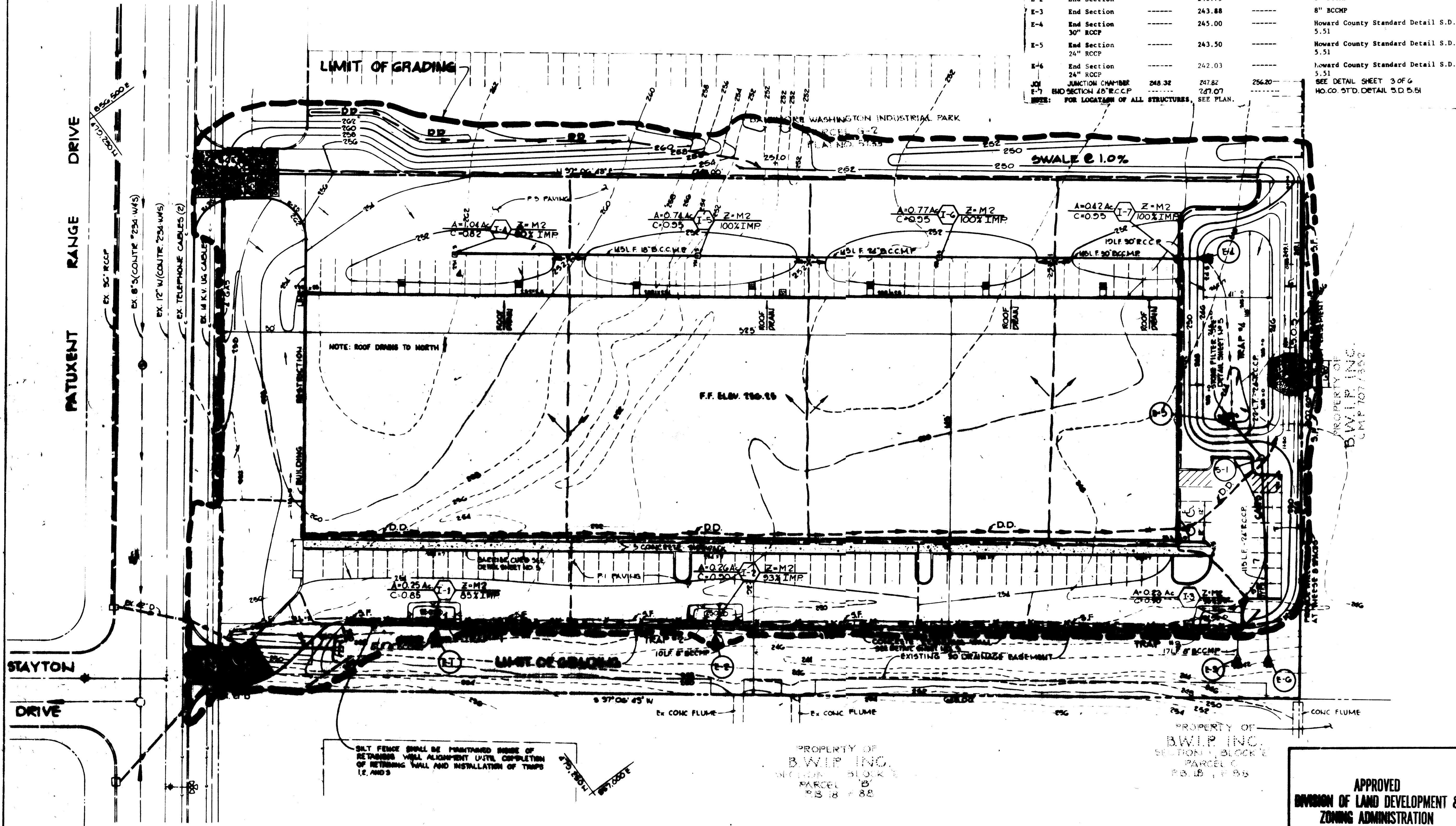
TRAP NO.	DRAINAGE AREA ACRES	DISTURBED AREA ACRES	VOLUME REQ. AVAIL.	CREST ELEV.	BOTTOM ELEV.	CLEANOUT ELEV.	BOTTOM DIMENSIONS
1	0.25	0.25	450 500	252.0	250.0	251.0	25 x 10
2	0.26	0.26	468 500	252.0	250.0	251.0	25 x 10
3	0.23	0.23	414 500	251.0	249.0	250.0	25 x 10
4	3.2	3.2	5760 8782	246.5	244.0	245.25	105 x 35

SITE ANALYSIS

DISTURBED AREA	4.15 Ac
PAVING AREA	1.32 Ac
ROOF AREA	1.75 Ac
AREA TO BE RESEDED	1.08 Ac.

STRUCTURE SCHEDULE

TYPE	INV/IN	INV/OUT	TOP ELEV.	REMARKS
I-1 Modified 'S' Inlet	250.00	249.00	252.3	See Detail Sheet, 3 of 6
I-2 Modified 'S' Inlet	248.00	246.75	252.3	See Detail Sheet, 3 of 6
I-3 Modified 'S' Inlet	246.00	243.88	252.30	See Detail Sheet, 3 of 6
I-4 'S' Inlet	-----	248.75	251.25	Howard County Standard Detail S.D. 4.22
I-5 'S' Inlet	247.87	247.37	251.25	Howard County Standard Detail S.D. 4.22
I-6 'S' Inlet	246.56	246.05	251.25	Howard County Standard Detail S.D. 4.22
I-7 'S' Inlet	245.30	245.10	251.25	Howard County Standard Detail S.D. 4.22
S-1 Modified Manhole	243.20	243.00	251.50	SWM Structure, See detail sheet 3 of 6
E-1 End Section	-----	249.00	-----	8" BCCHP
E-2 End Section	-----	246.75	-----	8" BCCHP
E-3 End Section	-----	243.88	-----	8" BCCHP
E-4 End Section 30" RCCP	-----	245.00	-----	Howard County Standard Detail S.D. 5.51
E-5 End Section 24" RCCP	-----	243.50	-----	Howard County Standard Detail S.D. 5.51
E-6 End Section 24" RCCP	-----	242.03	-----	Howard County Standard Detail S.D. 5.51
J-1 JUNCTION CHAMBER	248.32	247.82	256.20	SEE DETAIL SHEET 3 OF 6
E-7 END SECTION 18" RCCP	-----	247.07	-----	HO. CO STD. DETAIL S.D. 5.51



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
 DEVELOPER: *Arthur E. Muegge* DATE: 5-31-84

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 ENGINEER: *Arthur E. Muegge* DATE: 5-31-84

REVIEWED FOR *Howard* NAME: *Howard* S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
 U.S. SOIL CONSERVATION SERVICE DATE: 6-5-84

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 NAME: *Robert W. Zedler* DATE: 6-5-84
 HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 NAME: *John Boy* DATE: 6-12-84
 HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 NAME: *Arthur Amato-Bondell* DATE: 6-13-84
 PLANNING DIRECTOR
 NAME: *William M. Marchman* DATE: 6-13-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 NAME: *Steve F. Neuman* DATE: 6-8-84
 DIRECTOR
 NAME: *Robert E. Egan* DATE: 6-7-84
 CHIEF, BUREAU OF ENGINEERING

OWNER/DEVELOPER
 B.W.I. WAREHOUSE #1
 LIMITED PARTNERSHIP
 710 AMERICAN CITY BUILDING
 COLUMBIA, MARYLAND 21044

PROJECT: B.W.I.P. PARCEL G-3
 AREA RECORD PLAT RECORDING REF. NO. 5733
 BALTIMORE WASHINGTON INDUSTRIAL PARK PARCEL G-3
 TAX MAP NO. 48 7TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 5-11-84

DESIGNED BY: J.S.
 DRAWN BY: J.S.K.
 PROJECT NO: 008000
 DATE: 3/6/84
 SCALE: 1"=50'
 DRAWING NO: 4 OF 6

THE RIEMER GROUP INC.
 A Land Planning Design & Engineering Firm
 8600 Baltimore National Pike, Ellicott City, Maryland 21043

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
Arthur E. Muegge

SEMI CONTROL CONSTRUCTION SITES

GENERAL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (922-2070).
2. All sediment control structures will be installed in accordance with "The Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" as prepared by the U.S. Department of Agriculture Soil Conservation Service.
3. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
4. All disturbed areas are to be dressed and stabilized according to the temporary or permanent seeding schedules as soon as proper weather conditions exist for the establishment of a permanent vegetative cover.
5. Sediment will be removed from traps when the depth reaches the clean out elevation shown on the plans.
6. Fertilizer and lime rates may be changed through authorization by the Howard Soil Conservation District if soil tests determine a reduction in the specified rates is justified.
7. 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.
8. References called for on the sediment control construction plan and details are made to "The Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas".
9. Sediment control will be installed before clearing and grubbing remainder of site.

TEMPORARY SEEDING

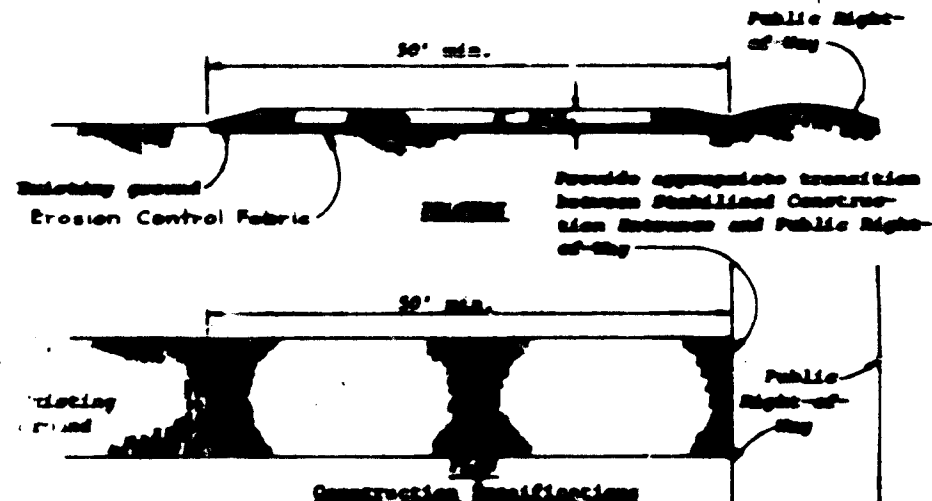
Area to be seeded shall be recently loosened. If the ground is packed, crusted or hard, the top layer of soil shall be loosened by disking, raking or other acceptable means.

- A. Apply 10-20-10 fertilizer (or equivalent) at the rate of 600 lbs. per acre or 15 lbs. per 1000 square feet.
- B. Where soil is known to be highly acid, apply dolomitic limestone at the rate of 1 ton per acre.
- C. Work both into soil and seed with cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry will include seed and fertilizer) at the rate of 40 lbs. per acre of Italian or perennial ryegrass.
- D. Mulch with unweathered small grain straw at the rate of 1 1/2 to 2 tons, per acre and anchor with a cutback asphalt or emulsified asphalt at the rate of 5 gal. per 1000 square feet.

PERMANENT SEEDING

Final stabilization will take place as soon as possible as weather conditions permit, as follows:

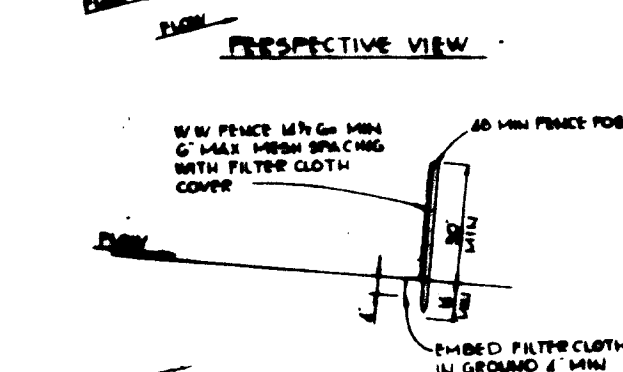
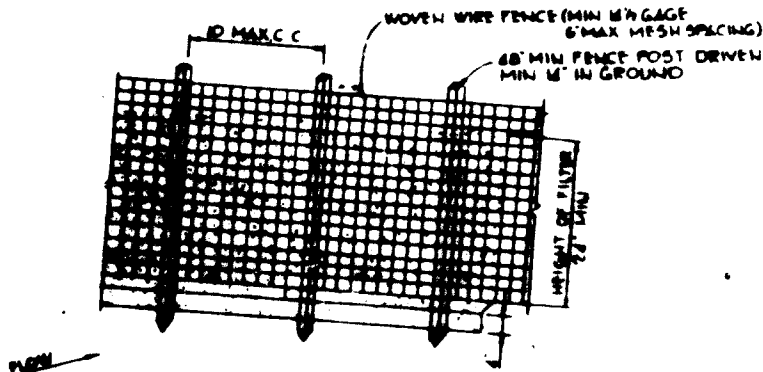
- A. Apply dolomitic limestone at the rate of 2 tons per acre (one ton per acre if application of ton per acre was made for temporary seeding.)
- B. Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre harrow or disc lime and 0-20-20 fertilizer into the soil to a minimum depth of 3" lawns or high maintenance areas will be dragged and leveled with a York rake.
- C. At the time of seeding apply 400 pounds of 30-0-0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.
- D. Seed with a mixture of certified "Merion" Kentucky bluegrass - 40 lbs. per acre; common Kentucky bluegrass @ 40 lbs. per acre; Red Fescue, Pennlawn or Jamestown @ 20 lbs. per acre.
- E. Mulch with unweathered small grain straw at the rate of 1 1/2 to 2 tons per acre and anchor with a cutback asphalt or emulsified asphalt at the rate of 5 gallons per 1000 square feet.
- F. Seed all slopes with a mixture of certified Kentucky 31 tall fescue @ 50 lbs. per acre and inoculated Korean lespedeza @ 15 lbs. per acre.
- G. Sodded swales shall be Kentucky 31 tall fescue.



1. Stone size - See MSB spec No. 2 (2-1/2" to 1") or ASTM Specification M3, size No. 2 (2-1/2" to 1-1/2"). See crushed stone.
2. Length - As effective, but not less than 20 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Working - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When working is prepared, it shall be done on an area stabilized with crushed stone shall become laid on approved sediment trap or sediment basin.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone or maintenance. All sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.

STONE CONSTRUCTION ENTRANCE

NO SCALE



CONSTRUCTION NOTES

1. STONE CURB SHALL BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
2. FERTILIZER SHALL BE APPLIED TO SOIL WITH FERTILIZER SPREADER WITH WIRE TIES OR STAPLES.
3. POST STEEL EITHER CRUISE OR 2 HARDWOOD.
4. FENCE SHOULD BE 4" MAX. G. MAX. C. W/SH OPENING.
5. FILTER CLOTH SHALL BE 100% LAMER EROSION CONTROL CLOTH WITH POLYESTER OR FOUL.

SILT FENCE

NO SCALE

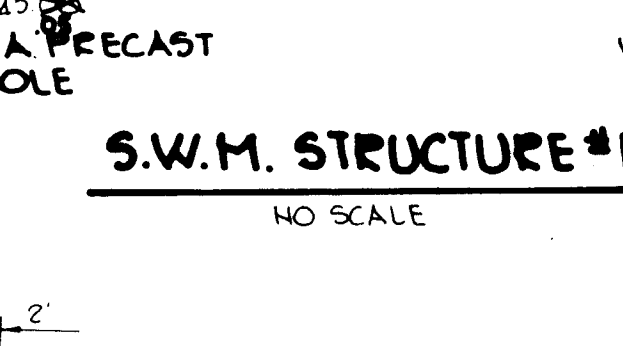


CONSTRUCTION SPECIFICATIONS

1. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The structure shall be inspected after each rain and repairs made as needed.
3. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
4. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
5. All cut and fill slopes shall be 2:1 or flatter.

INLET TRAP DETAIL

NO SCALE

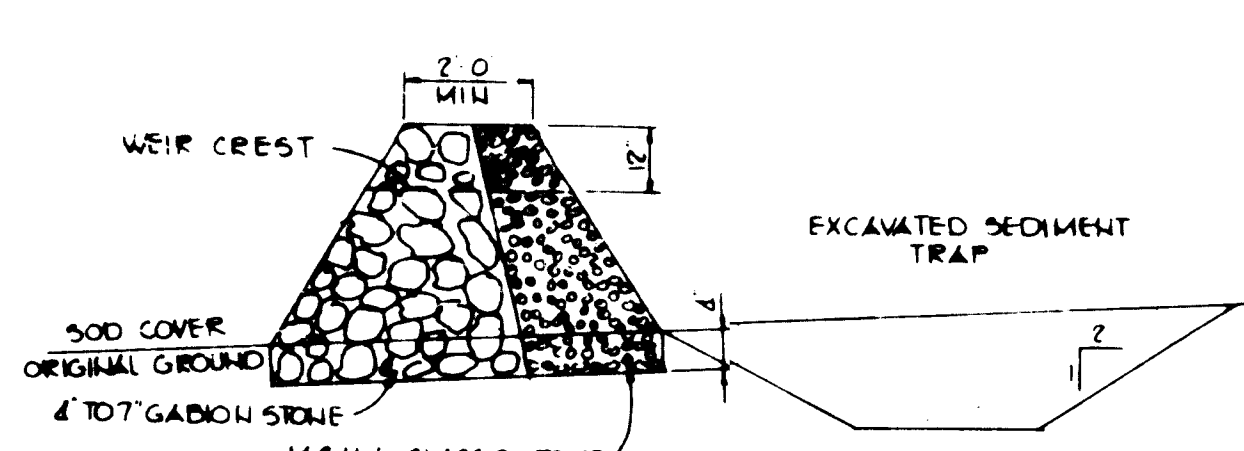


OUTLET PROTECTION DETAIL

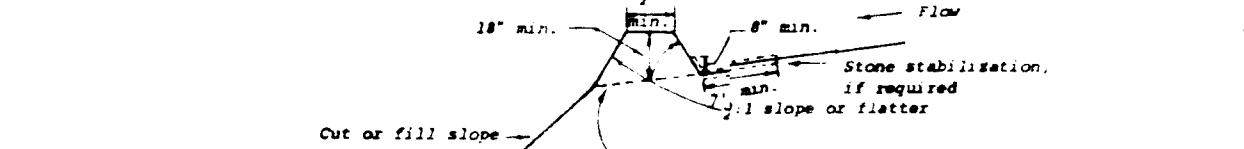
NO SCALE



STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	0.5	15	4	0.5
E-2	0.5	15	4	0.5
E-3	0.5	15	4	0.5
E-4	0.5	5	4	0.5
E-6	0.5	5	4	0.5
E-7	0.4	30	16	1.5



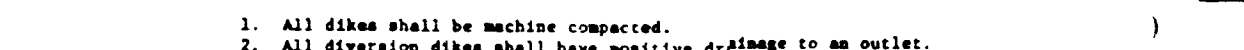
TYPICAL CROSS SECTION STONE OUTLET WEIR
NO SCALE



CONSTRUCTION SPECIFICATIONS

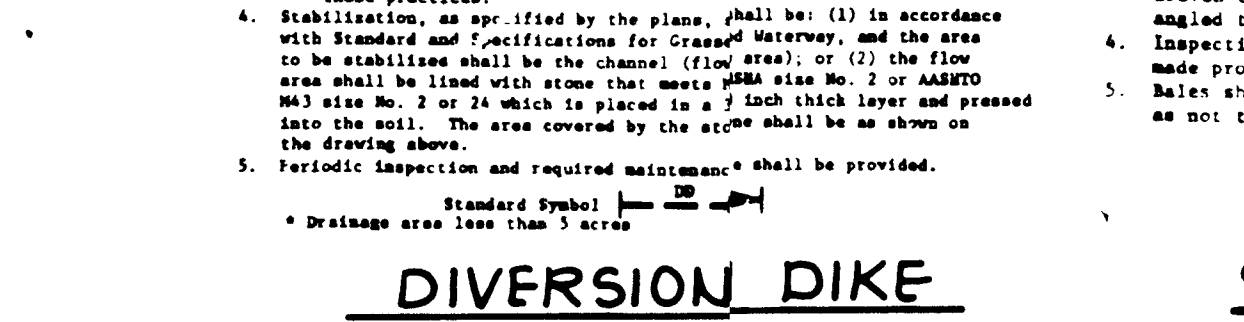
1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. Diversion runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
4. Diversion runoff from a disturbed or approved upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
5. Stabilization, as specified by the plans, shall be (1) in accordance with Standard and Specifications for Graded Material, and the area to be stabilized shall be the channel (flow area), or (2) the flow area shall be lined with stone that meets MSB size No. 2 or ASTM M3 size No. 2 or 2A which is placed in a 1/2 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
6. Periodic inspection and required maintenance shall be provided.

STANDARD SYMBOL



DIVERSION DIKE

NO SCALE

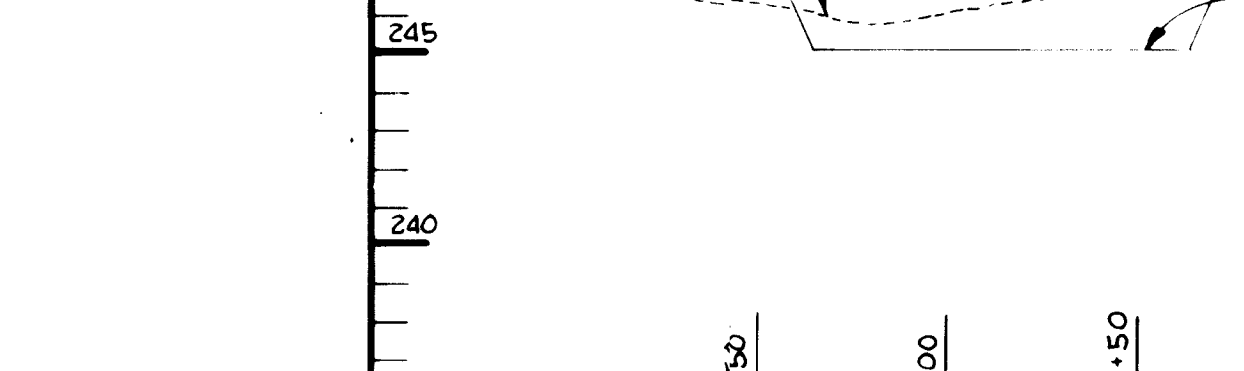


CONSTRUCTION SPECIFICATIONS

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bales to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

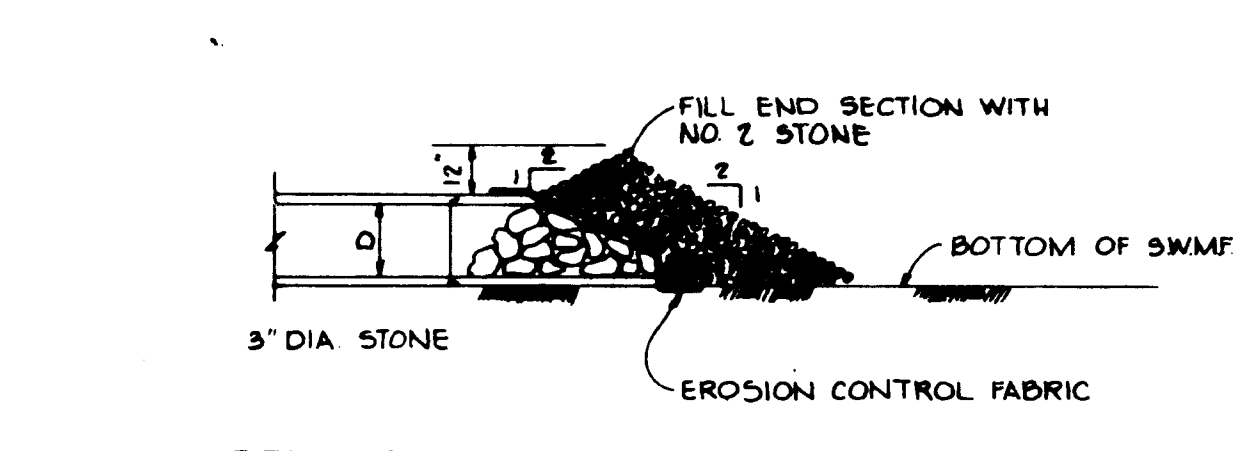
STRAW BALE DIKE

NO SCALE



EMBANKMENT PROFILE

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



STONE FILTER @ E-5

NO SCALE

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL SILT FENCE AND DIVERSION DIKES.
4. CONSTRUCT BERM FOR SEDIMENT TRAP #4 TO ELEVATION 249.7 AND INSTALL STONE OUTLET STRUCTURE.
5. GRADE SITE, RAISING ELEVATION OF DIVERSION DIKE WITH FILL.
6. INSTALL WATER, SEWER AND STORM DRAINS BETWEEN 1-4 AND E-4; E-5 and E-6. BLOCK E-5 AS PER DETAIL.
7. CONSTRUCT BUILDING AND RETAINING WALL. REMOVE SILT FENCE AFTER THE RETAINING WALL IS CONSTRUCTED.
8. CONSTRUCT SEDIMENT TRAPS 1-3 AS INLETS ARE INSTALLED.
9. INSTALL CURB AND GUTTER. IMMEDIATELY PRIOR TO PAVING, REMOVE SEDIMENT TRAPS 1-3.
10. COMPLETE ALL SITE WORK, STABILIZING ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
11. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND CONVERT TRAP #4 TO STORM WATER MANAGEMENT FACILITY AS FOLLOWS:
 - a. PUMP OUT IMPOUND WATER.
 - b. REMOVE STONE OUTLET STRUCTURE AND BACKFILL IN ACCORDANCE WITH SITE PLAN.
 - c. REMOVE SEDIMENT AND RESTORE BASIN TO ORIGINAL DIMENSIONS AS SHOWN ON SITE PLAN.
 - d. SEED ALL DISTURBED AREAS A PER THE PERMANENT SEEDING NOTES.

CONSTRUCTION SPECIFICATIONS

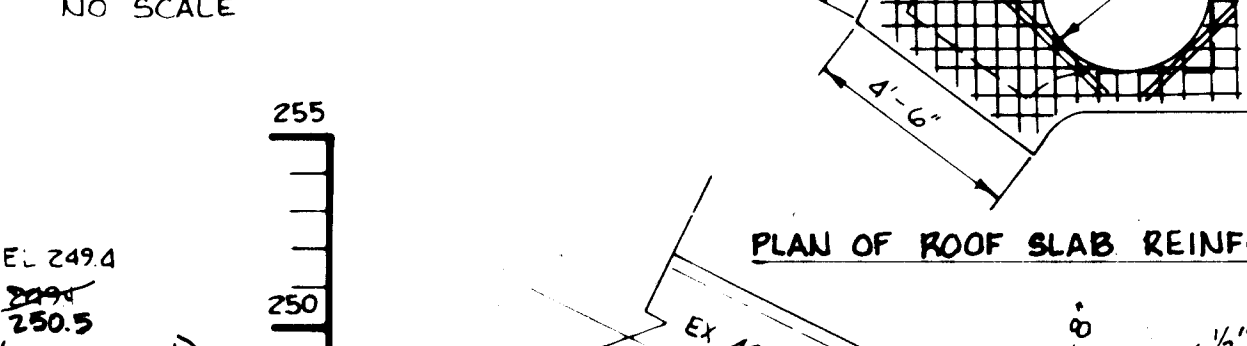
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STANDARD SYMBOL



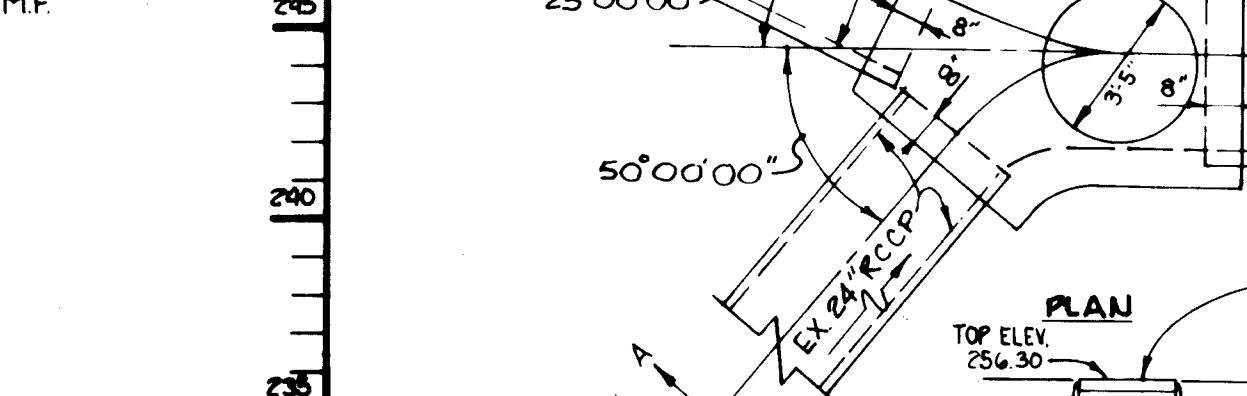
DIVERSION DIKE

NO SCALE



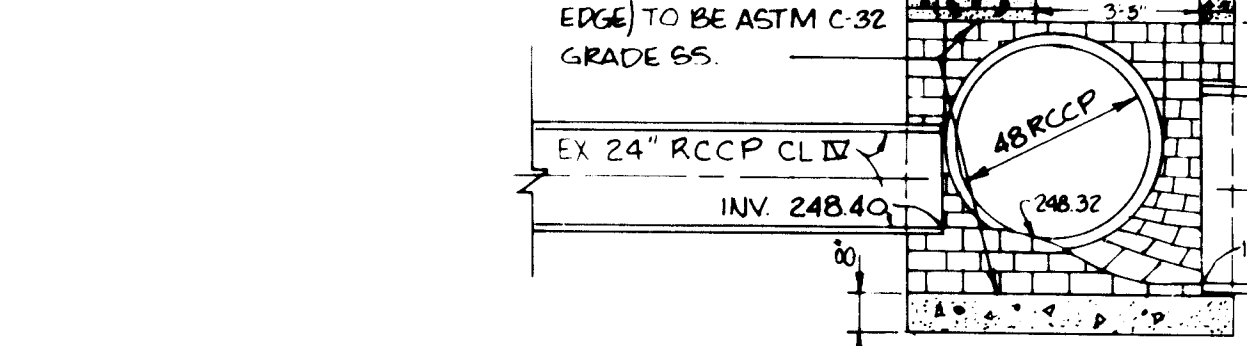
PLAN OF ROOF SLAB REINFORCING

NO SCALE



SECTION A-A

NO SCALE



JUNCTION CHAMBER #1

NO SCALE

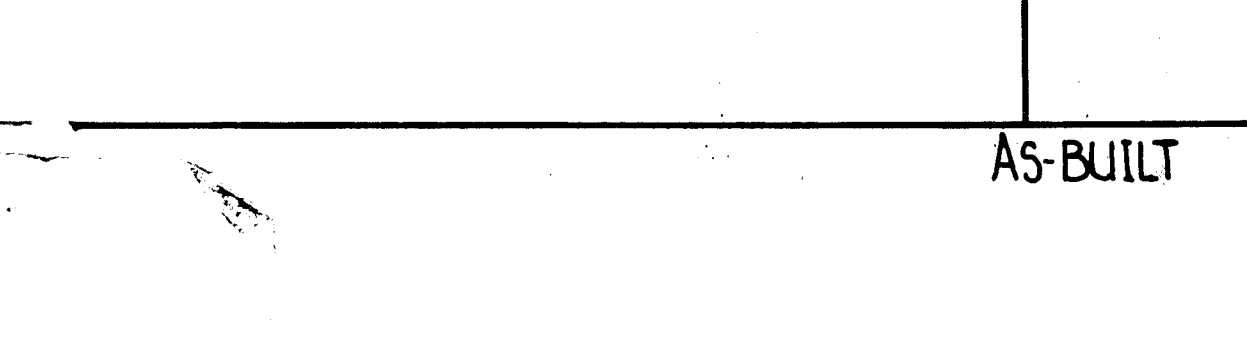


CONSTRUCTION SPECIFICATIONS

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4. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
5. All cut and fill slopes shall be 2:1 or flatter.

INLET TRAP DETAIL

NO SCALE



BY THE DEVELOPER
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
Arthur E. Muegge III 5-31-84
DEVELOPER DATE

BY THE ENGINEER
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Arthur E. Muegge III 5-31-84
ENGINEER ARTHUR E. MUEGGE DATE

REVIEWED FOR HOWARD COUNTY S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
Howard 6-5-84
SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziehl 6-5-84
HOWARD COUNTY S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph J. Baker 6-12-84
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Acting Ameri Bandal 6-13-84
PLANNING DIRECTOR DATE
John M. Muegge III 6-13-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Greg F. Newmy 6-8-84
DIRECTOR DATE
Richard S. Reddy 6-7-84
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
B.W.I. WAREHOUSE #1
LIMITED PARTNERSHIP
710 AMERICAN CITY BUILDING
COLUMBIA, MARYLAND 21044

PROJECT
B.W.I.P. PARCEL G-3

AREA RECORD PLAT RECORDING REF NO 5733
BALTIMORE-WASHINGTON INDUSTRIAL PARK PARCEL G-3
BLOCK 'E' TAX MAP NO. 48 6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL DETAILS

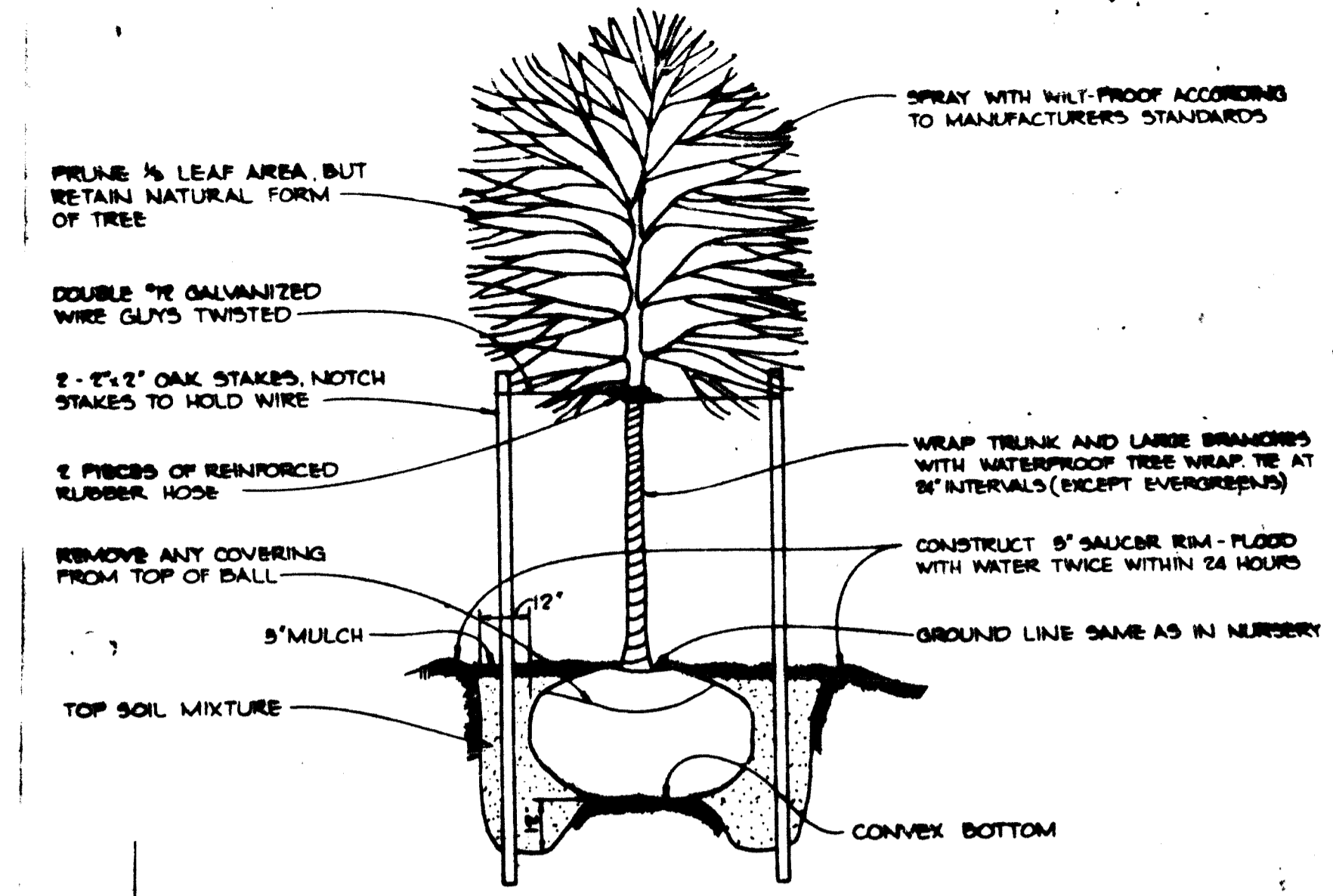
THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
8659 Baltimore National Pike, Ellicott City, Maryland 21041 (410) 461-2600

DATE: 5-30-84
DESIGNED BY J.L.S.
DRAWN BY DAM
PROJECT NO. 008000
DATE: 3-6-84
SCALE: AS SHOWN
DRAWING NO. 5 OF 6

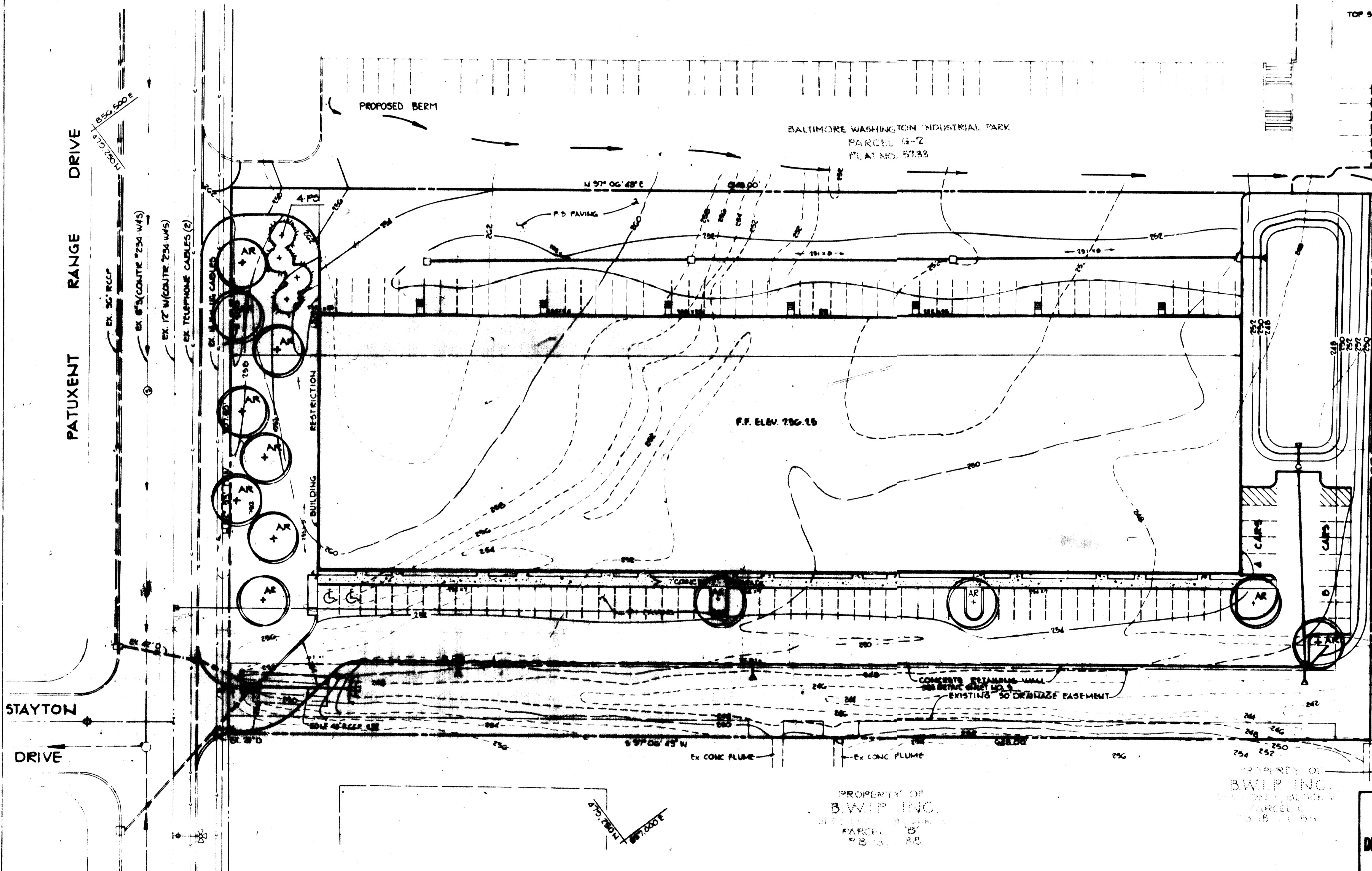
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 5-11-84
ML

PLANT LIST

QUAN.	SYM.	NAME	REMARKS
SHADE TREES:			
12	AR	ACER RUDDUM	RED MAPLE
EVERGREEN TREES			
4	PS	PINUS STROBUS	EASTERN WHITE PINE



TREE PLANTING DETAIL
NO SCALE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Jeffrey P. ... COUNTY HEALTH OFFICER 6-12-84 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Acting ... PLANNING DIRECTOR 6-13-84 DATE
... CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 6-12-84 DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... F. ... DIRECTOR 6-8-84 DATE
... R. ... CHIEF, BUREAU OF ENGINEERING 6-7-84 DATE

OWNER/DEVELOPER
B.W.I. WAREHOUSE #1
LIMITED PARTNERSHIP
710 AMERICAN CITY BUILDING
COLUMBIA MARYLAND 21044

PROJECT
B.W.I.P. PARCEL G-3

AREA RECORD PLAT RECORDING REF. NO. 5793
BALTIMORE WASHINGTON INDUSTRIAL PARK PARCEL G-2
BLOCK "E" TAX MAP NO. 48 1/2 1/2 SELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
PLANTING PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. is a Maryland corporation, organized under the laws of the State of Maryland, with its principal office at 1000 North ...
May 31, 1984
DESIGNED BY ...
DRAWN BY ...
PROJECT NO. 008000
DATE 3-6-84
SCALE 1"=30'
DRAWING NO. 6 OF 6

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-11-84
...