

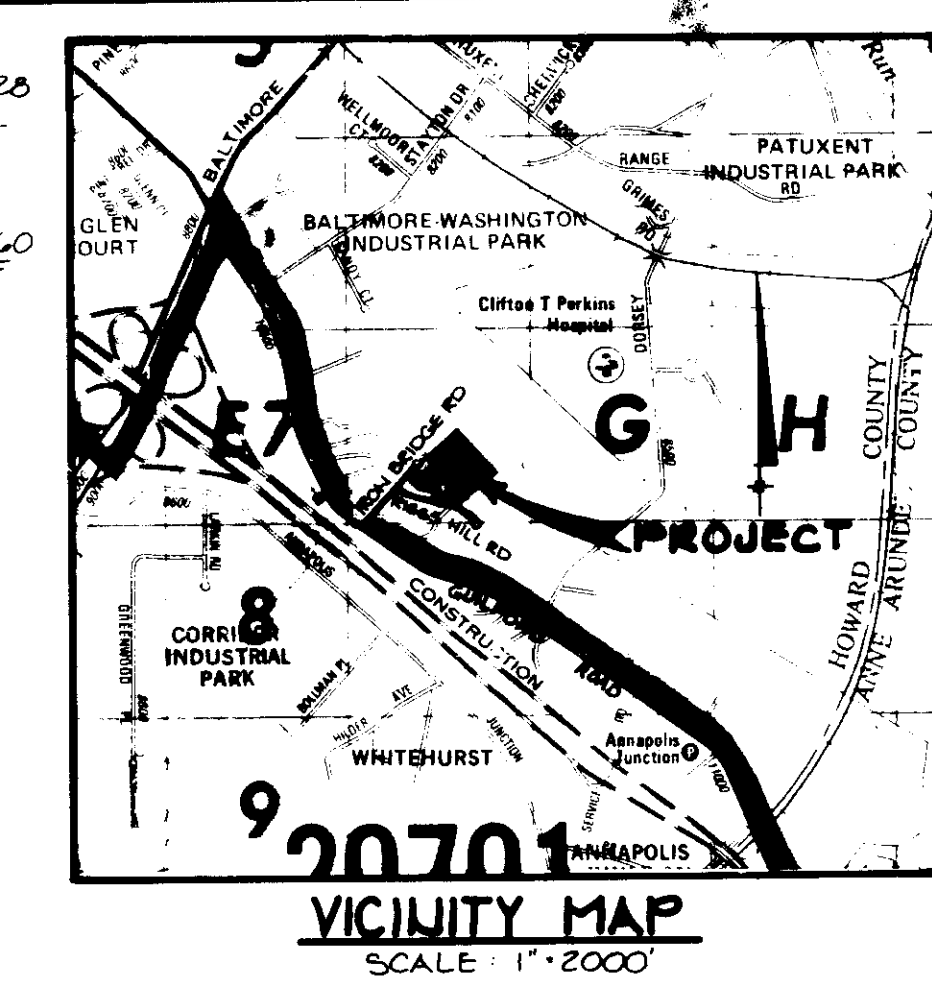
SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DETAILS AND STORM DRAIN PROFILES
4	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
5	SEDIMENT CONTROL NOTES AND DETAILS
6	PLANTING PLAN

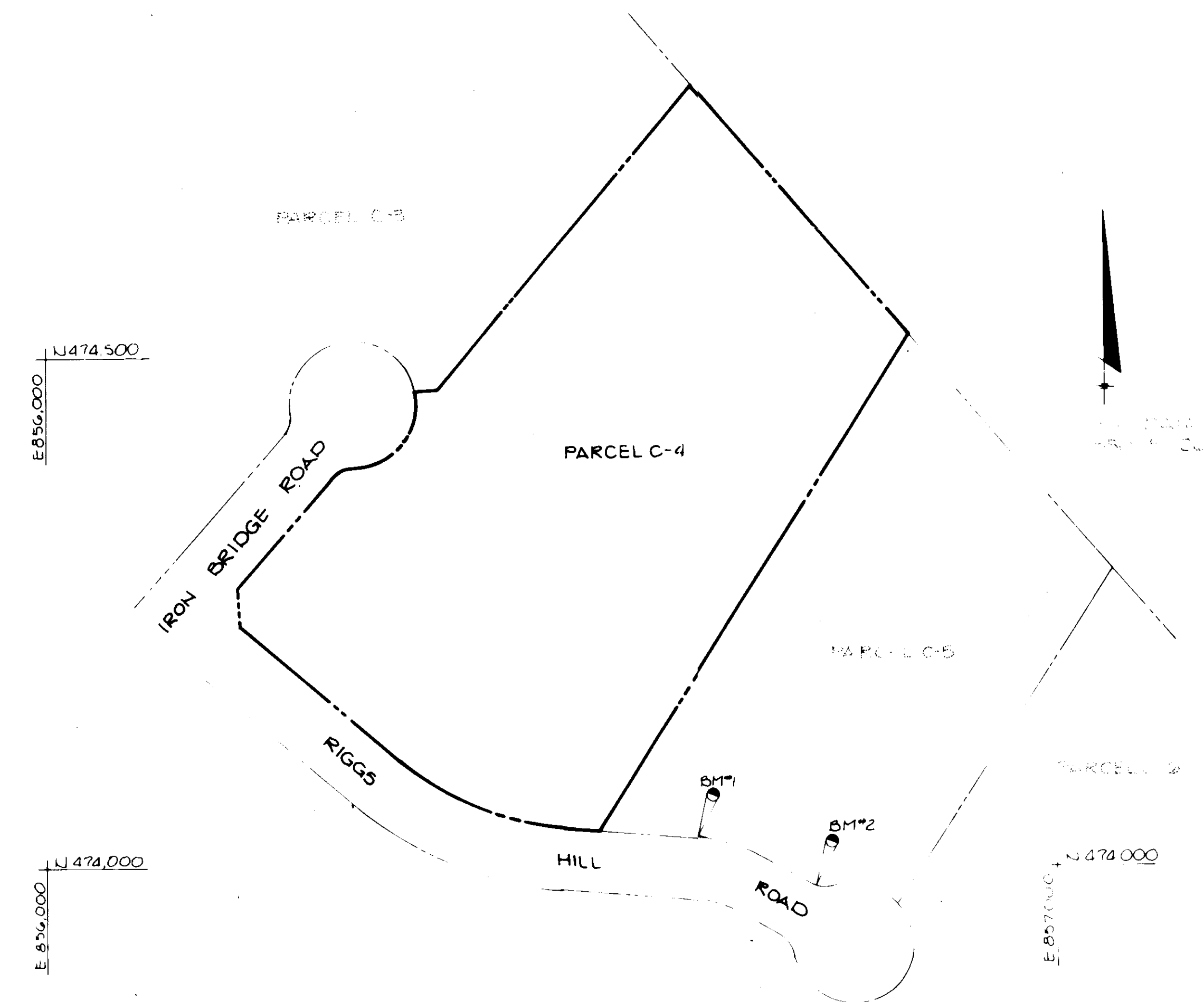
SITE DEVELOPMENT PLAN PARCEL C-4 CORRIDOR NORTH 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

BM#1
IRON PIPE 22" DIAM. EAST OF PARCEL
C-4 ALONG NORTH R/W LINE OF
RIGGS HILL ROAD
N 474.03216 E 856.63603
ELEV. 202.28

BM#2
IRON PIPE ON NORTH R/W LINE OF
RIGGS HILL ROAD AT CUL-DE-SAC
N 473.08273 E 856.75502
ELEV. 206.60

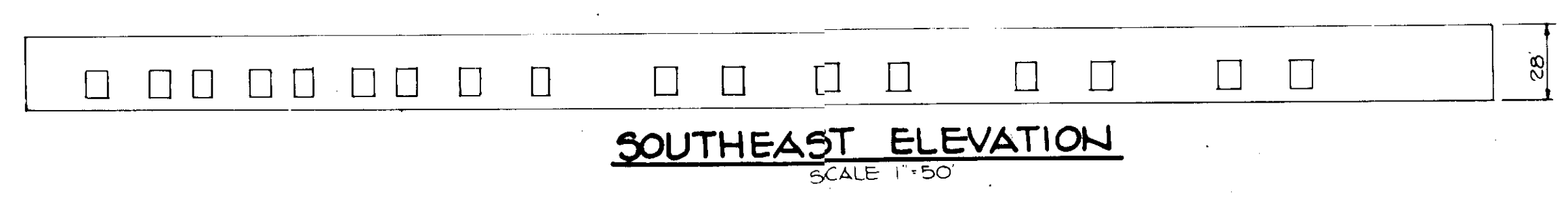


- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BOND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
 - ALL WORK SHALL BE PERFORMED 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 | 992-2368 |
| AT&T CABLE LOCATION DIVISION | 393-3553 |
| BALTIMORE GAS & 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 RUN SURVEY DATED JANUARY, 1986 BY THE RIEMER GROUP, INC.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2-01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
 - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.



SITE TABULATION

GROSS AREA OF PROPERTY	5.700 ACRES
GROSS AREA OF SUBMISSION	5.700 ACRES
PRESENT ZONING	M-2
GROSS AREA OF 1 STORY BUILDING	86,493 S.F.
BUILDING USE	WAREHOUSE
OPEN SPACE REQUIRED	20,114.858 SQUARE FT.
OPEN SPACE PROVIDED	10,175,656 SQUARE FT.
PARKING REQUIRED (AS STATED IN LETTER)	
25 OFFICE EMPLOYEES @ 7 SPACES PER 10 EMPLOYEES =	18 SPACES
144 WAREHOUSE EMPLOYEES @ 1 SPACE PER 2 EMPLOYEES =	72 SPACES
TOTAL PARKING REQUIRED	90 SPACES
PARKING PROVIDED	111 SPACES
HANDICAPPED PARKING REQUIRED	5 SPACES
HANDICAPPED PARKING PROVIDED	5 SPACES
LANDSCAPED ISLANDS REQUIRED	5%
LANDSCAPED ISLANDS PROVIDED	5%
TOTAL AREA OF PARKING LOTS	23,157 S.F. (0.53 AC)
AREA OF LANDSCAPED ISLANDS REQUIRED (5%)	1,058 S.F. (0.024 AC)
AREA OF LANDSCAPED ISLANDS PROVIDED (5%)	2,911 S.F. (0.066 AC)



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

James J. ... 7-21-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Thomas L. ... 7-22-86
PLANNING DIRECTOR DATE

John W. ... 7-22-86
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

George E. ... 7-16-86
DIRECTOR DATE

Robert E. ... 7-15-86
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
 ROWE DEVELOPMENT COMPANY
 PO BOX 1555 SUITE 020
 1001 E MAIN STREET
 RICHMOND VIRGINIA 23212

APPROVED:
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 3-18-86
Arthur E. Huegel

PROJECT: **CORRIDOR NORTH PARCEL C-4**

AREA: CORRIDOR NORTH PARCEL C-4
 TAX MAP 130.48
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **TITLE SHEET**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
C-4	10640 IRON BRIDGE ROAD

SUBDIVISION NAME	SECT./AREA	PARCEL #
CORRIDOR NORTH	LJA	C-4

PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
G-28	7	M-2	46	6	6064

WATER CODE	SEWER CODE
802	4150000

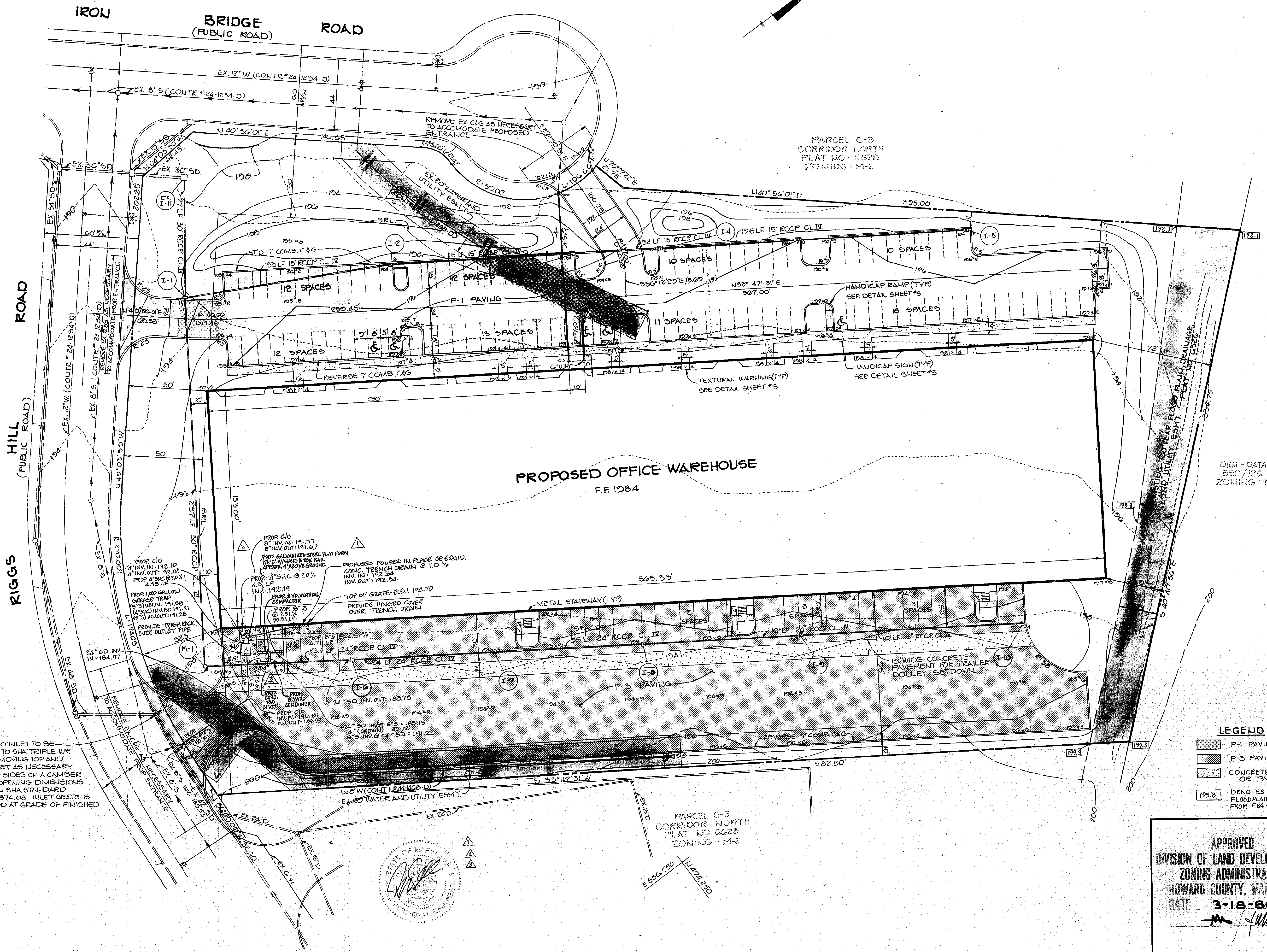
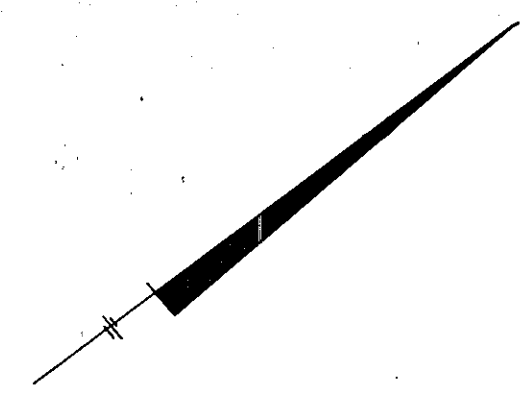
DATE	DESIGNED BY
	D.A.M.

DATE	DRAWN BY
	F.D.M.

PROJECT NO.	DATE	SCALE
27500	2-17-86	AS SHOWN

DRAWING NO.	OF
1	6

E 856,000
L 424,250



NOTE EX. A-10 INLET TO BE CONVERTED TO SHA TRIPLE W/ INLET BY REMOVING TOP AND SIDES OF INLET AS NECESSARY TO BRICK UP SIDES ON A CAMBER TO PROVIDE OPENING DIMENSIONS AS SHOWN ON SHA STANDARD DETAIL MD-374.08. INLET GRATE IS TO BE PLACED AT GRADE OF FINISHED PAVING.

- LEGEND**
- P-1 PAVING
 - P-3 PAVING
 - CONCRETE SIDEWALK OR PAVEMENT
 - 195.8 DENOTES 100 YEAR FLOODPLAIN ELEVATION FROM F84-179

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

John J. Ford 7-21-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Thomas L. Hamill 7-22-86
PLANNING DIRECTOR DATE

John M. Marshall 7-22-86
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

Wayne E. Nalley 7-21-86
DIRECTOR DATE

Robert S. Rasmussen 7-15-86
CHIEF, BUREAU OF ENGINEERING DATE

10/10/11 ADD SEPARATE 4\"/>

8/24/11 ADD GREASE TRAP AND 8\"/>

DATE NO. REVISION

OWNER/DEVELOPER
 ROWE DEVELOPMENT COMPANY
 P.O. BOX 1555 SUITE 920
 1001 E. MAIN STREET
 RICHMOND, VIRGINIA 23201

PROJECT: **CORRIDOR NORTH PARCEL C-4**

AREA CORRIDOR NORTH PARCEL C-4
 TAX MAP NO. 48
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Elkocott City, Maryland 21043 (301) 461-2680

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: **3-18-86**
JMM

DATE	DESIGNED BY: D.A.M.
	DRAWN BY: F.D.M.
	PROJECT NO: 27500
	DATE: FEB. 17, 1986
	SCALE: 1"=30'
	DRAWING NO. 2 OF 6

12/06/11		ADD 3'x27' CONC. PAD W/CONTAINER, COMPACTOR & STEEL PLATFORM
DATE	NO.	REVISION

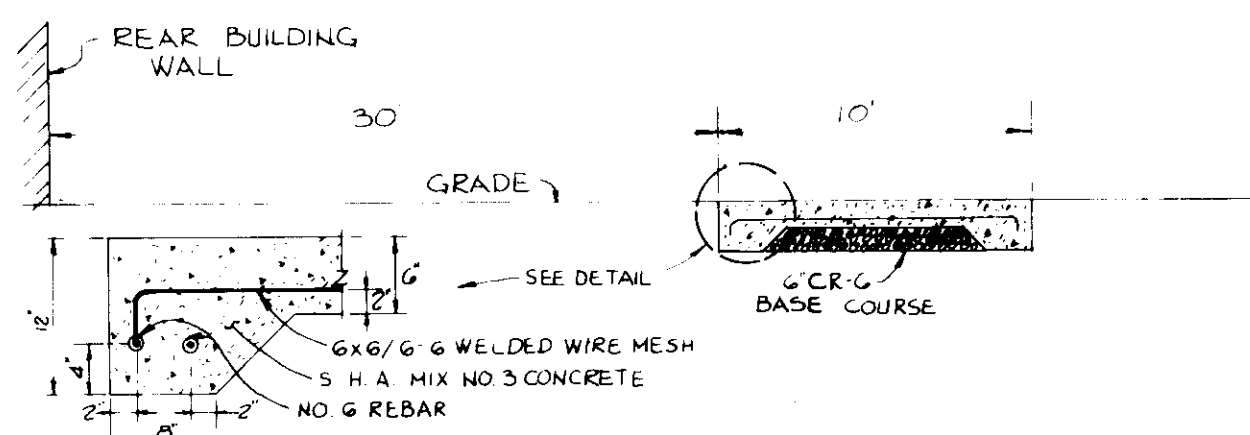
SDP-86-167

MARYLAND BLUEPRINT CO., INC. NUMBER

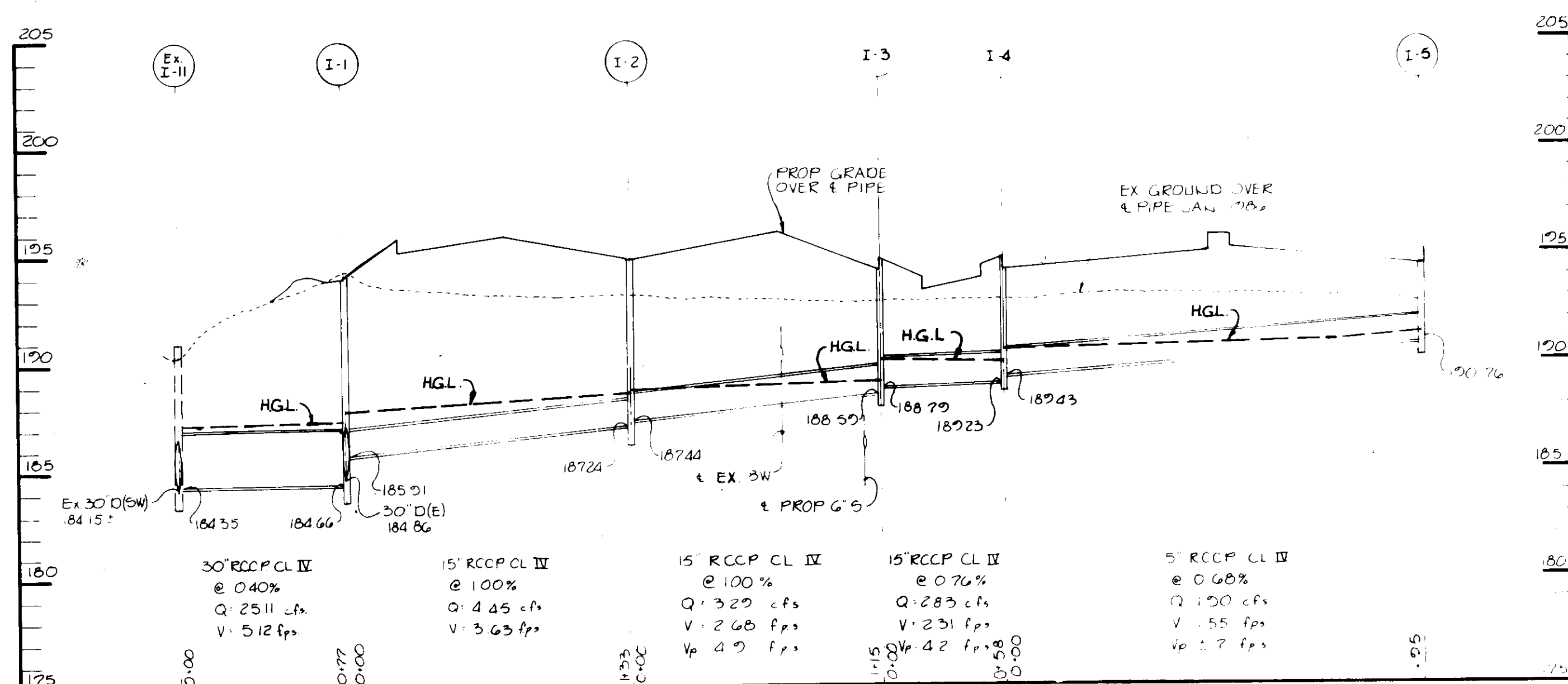
STRUCTURE SCHEDULE

Structure	Type	Inv. In	Inv. Out	Top Curb Elevation	Remarks
I-1	A-5 w/ defl.	15" D 185.91 30" D 184.86	184.66	194.03	Ho. Co. Std. SD 4.01
I-2	5' Comb.	187.44	187.24	195.38	Ho. Co. Std. SD 4.12
I-3	5' Comb.	188.79	188.59	194.88	Ho. Co. Std. SD 4.12
I-4	5' Comb.	189.43	189.23	194.78	Ho. Co. Std. SD 4.12
I-5	5' Comb.	---	190.76	194.98	Ho. Co. Std. SD 4.12
I-6	5'	186.90	186.40	193.14	Ho. Co. Std. SD 4.22
I-7	5'	187.59	187.39	193.14	Ho. Co. Std. SD 4.22
I-8	5'	188.28	188.08	193.14	Ho. Co. Std. SD 4.22
I-9	5'	189.56	188.81	193.14	Ho. Co. Std. SD 4.22
I-10	5'	---	190.30	194.0	Ho. Co. Std. SD 4.22
N-1	4'-0" Diameter Manhole	186.00	185.80	196.8	Ho. Co. Std. SD 5.12

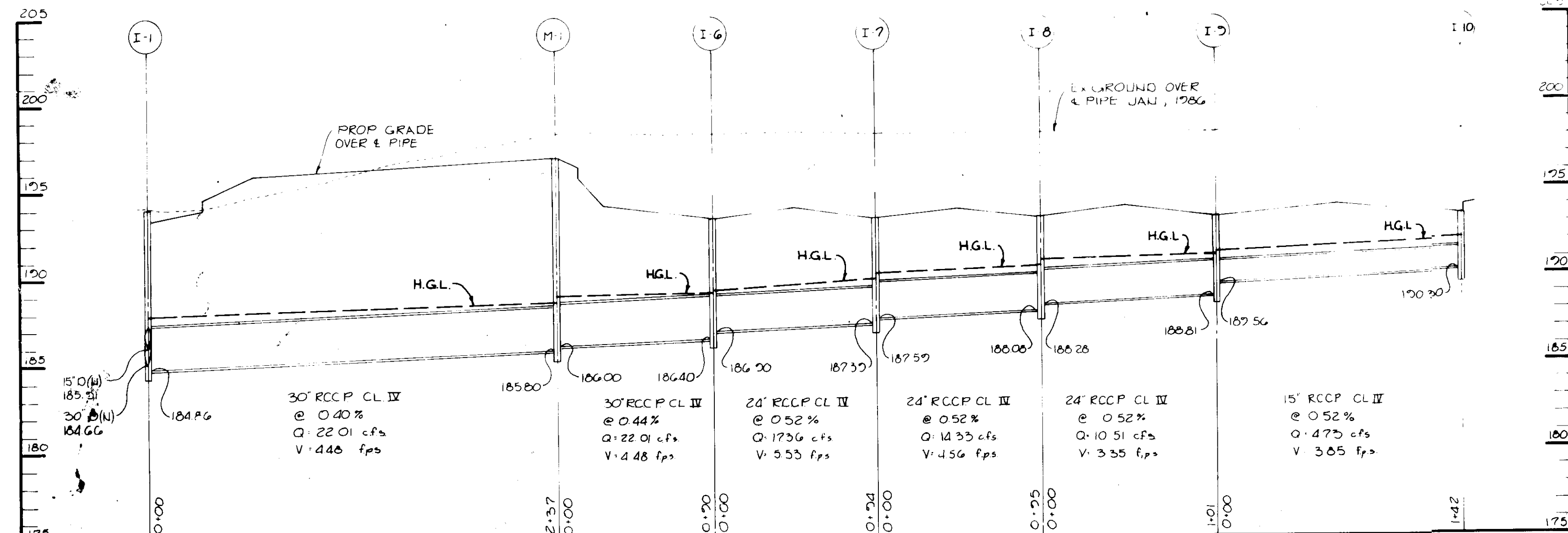
Elevation at rim of top grate



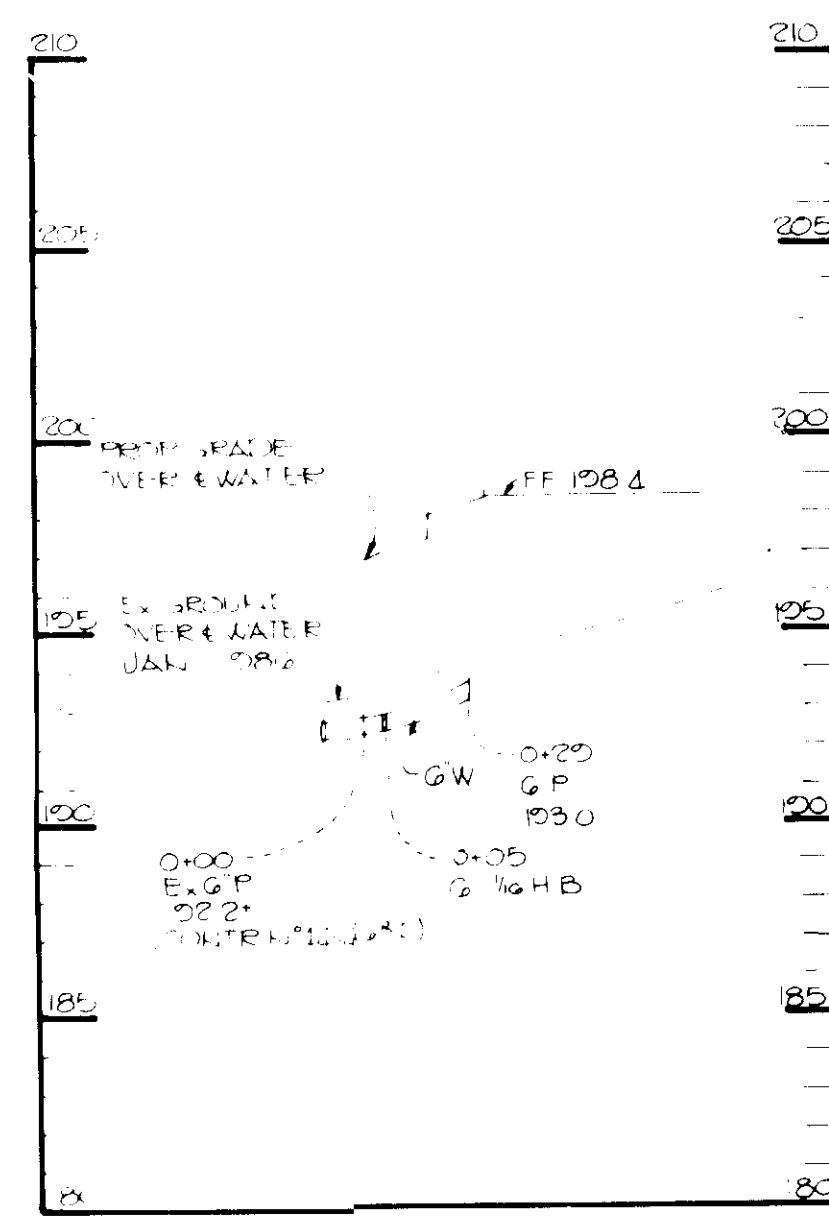
TRAILER DOLLEY SETDOWN PAD DETAIL
NO SCALE



PROFILE
SCALE VERT: 1"=5'
HORIZ: 1"=30'



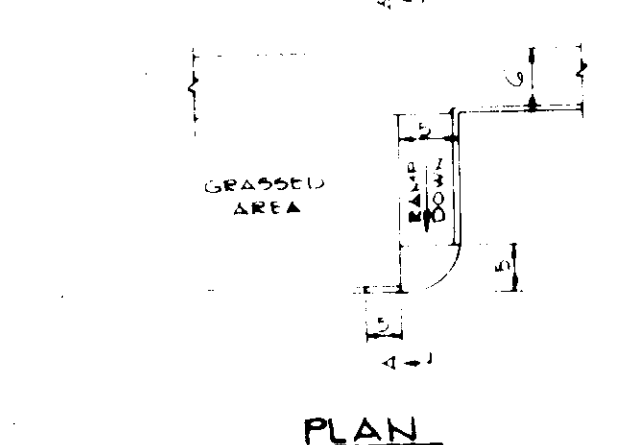
PROFILE
SCALE VERT: 1"=5'
HORIZ: 1"=30'



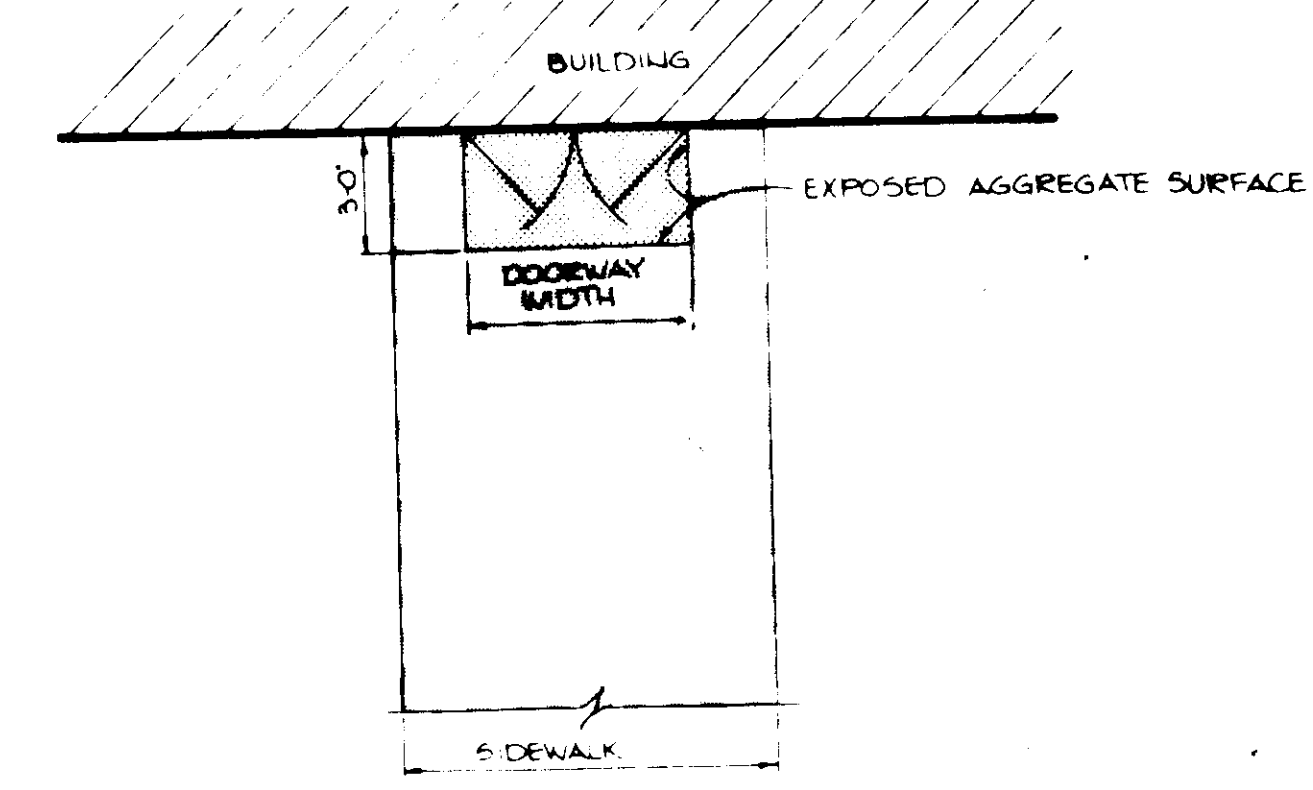
PROFILE
SCALE VERT: 1"=5'
HORIZ: 1"=30'



PROFILE
SCALE VERT: 1"=5'
HORIZ: 1"=30'

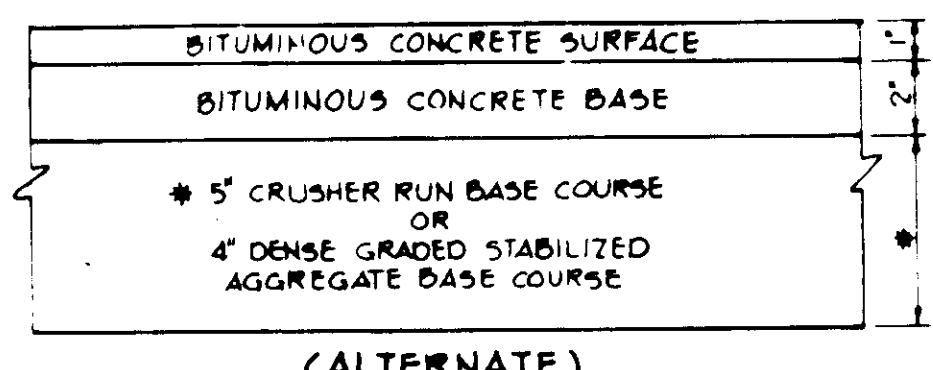
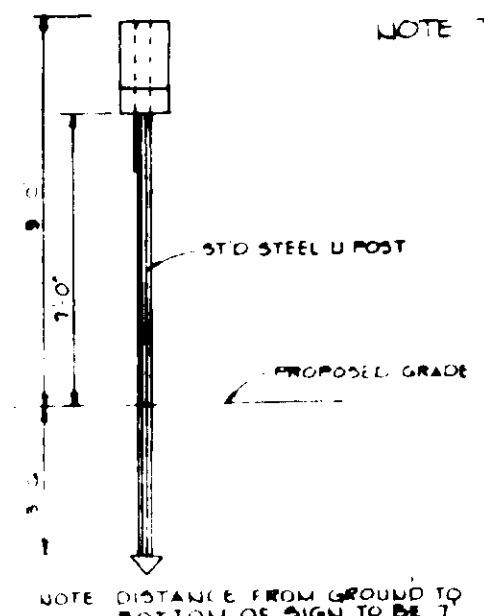


SECTION A-A
HAUDICAP RAMP
NO SCALE

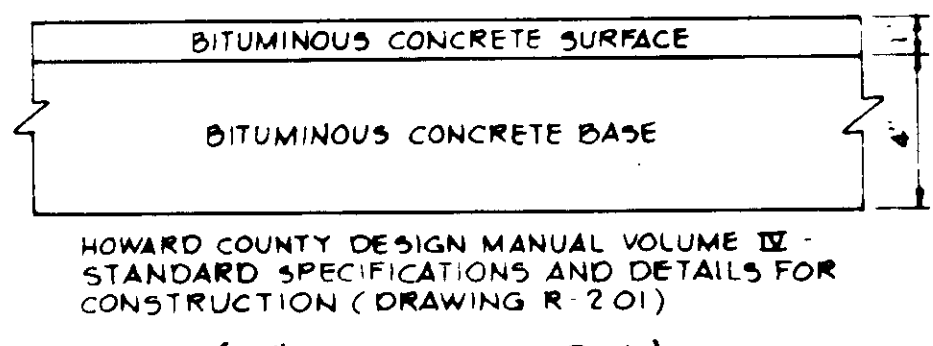


DETAIL BUILDING ENTRANCE TEXTURAL IDENTIFICATION FOR THE BLIND
NO SCALE

NOTE TO BE USED FOR ALL BUILDING ENTRANCES EXCEPT THOSE THAT ARE EXCLUSIVELY FIRE EXITS

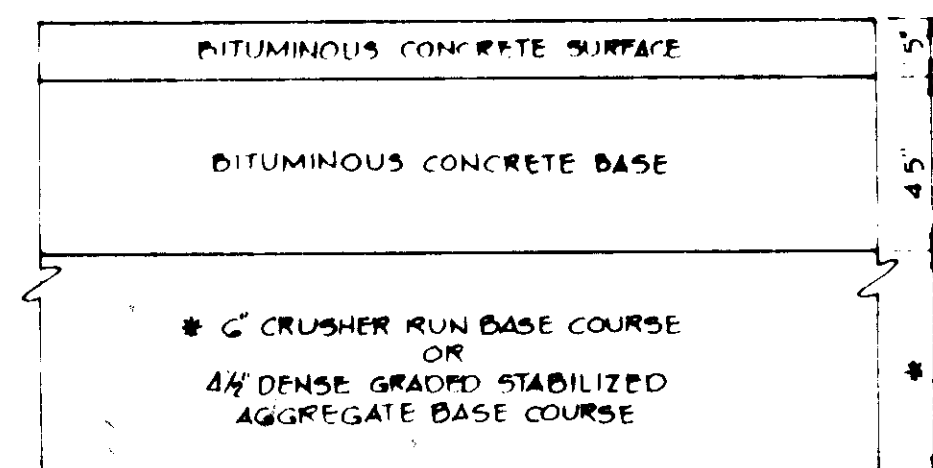


(ALTERNATE)

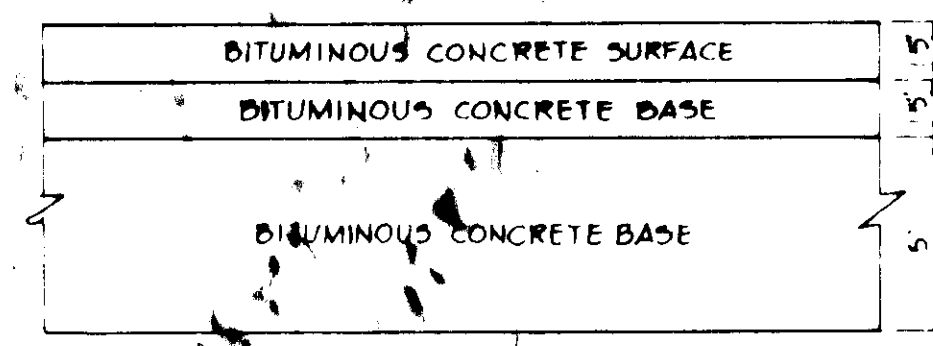


HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

(5" PAVING, P-1)

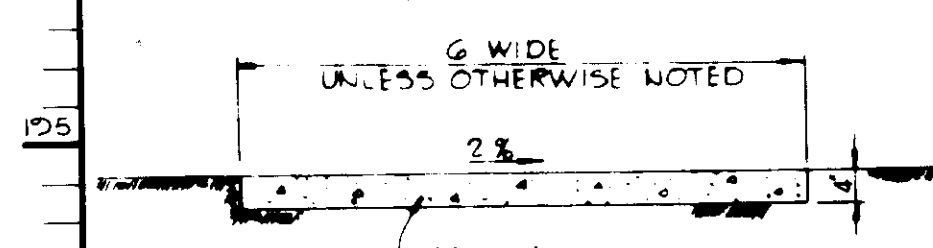


(ALTERNATE)



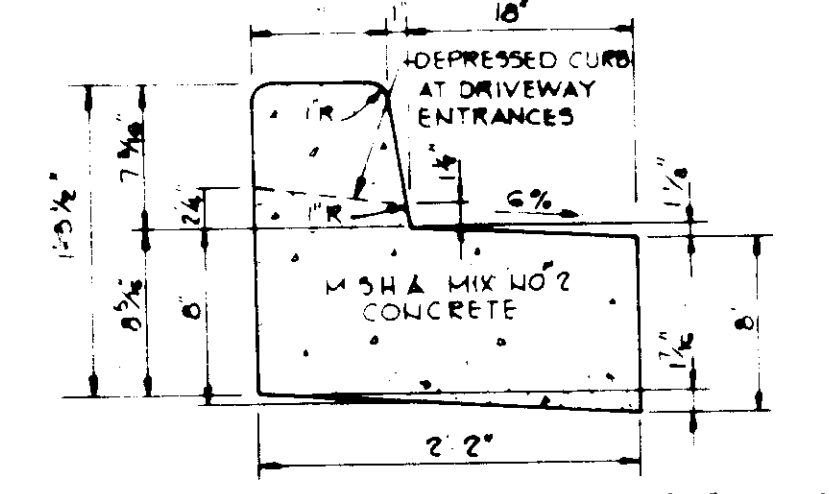
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-201)

(5" PAVING, P-3)

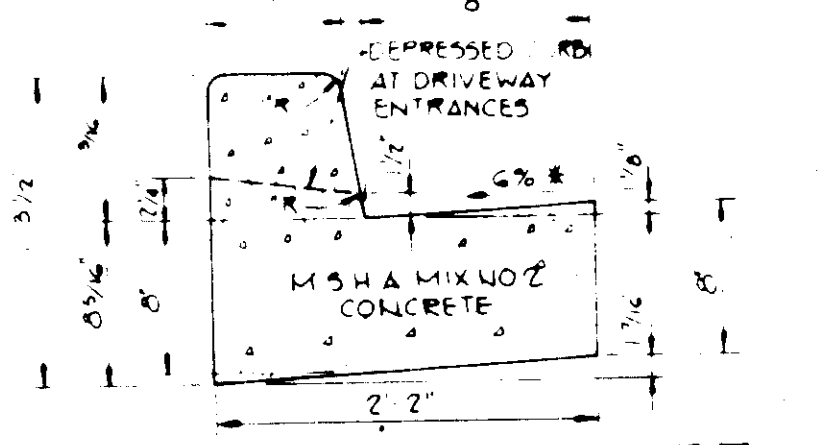


SIDEWALK DETAIL
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING
HOWARD COUNTY, MARYLAND
DATE 3-18-86



REVERSE 7' COMBINATION CURB AND GUTTER
NO SCALE



STANDARD 7' COMBINATION CURB AND GUTTER
NO SCALE

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

APPROVED: *Joseph J. Boyle* 7-21-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas L. Harris 7-22-86
PLANNING DIRECTOR DATE

John W. Muegge 7-22-86
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

Joseph E. Neely 7-22-86
DIRECTOR DATE

Arthur E. Muegge 7-15-86
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER, DEVELOPER
ROWE DEVELOPMENT COMPANY
PO BOX 1555 SUITE 920
1001 E. MAIN STREET
RICHMOND, VIRGINIA 23291

PROJECT CORRIDOR NORTH PARCEL C-4

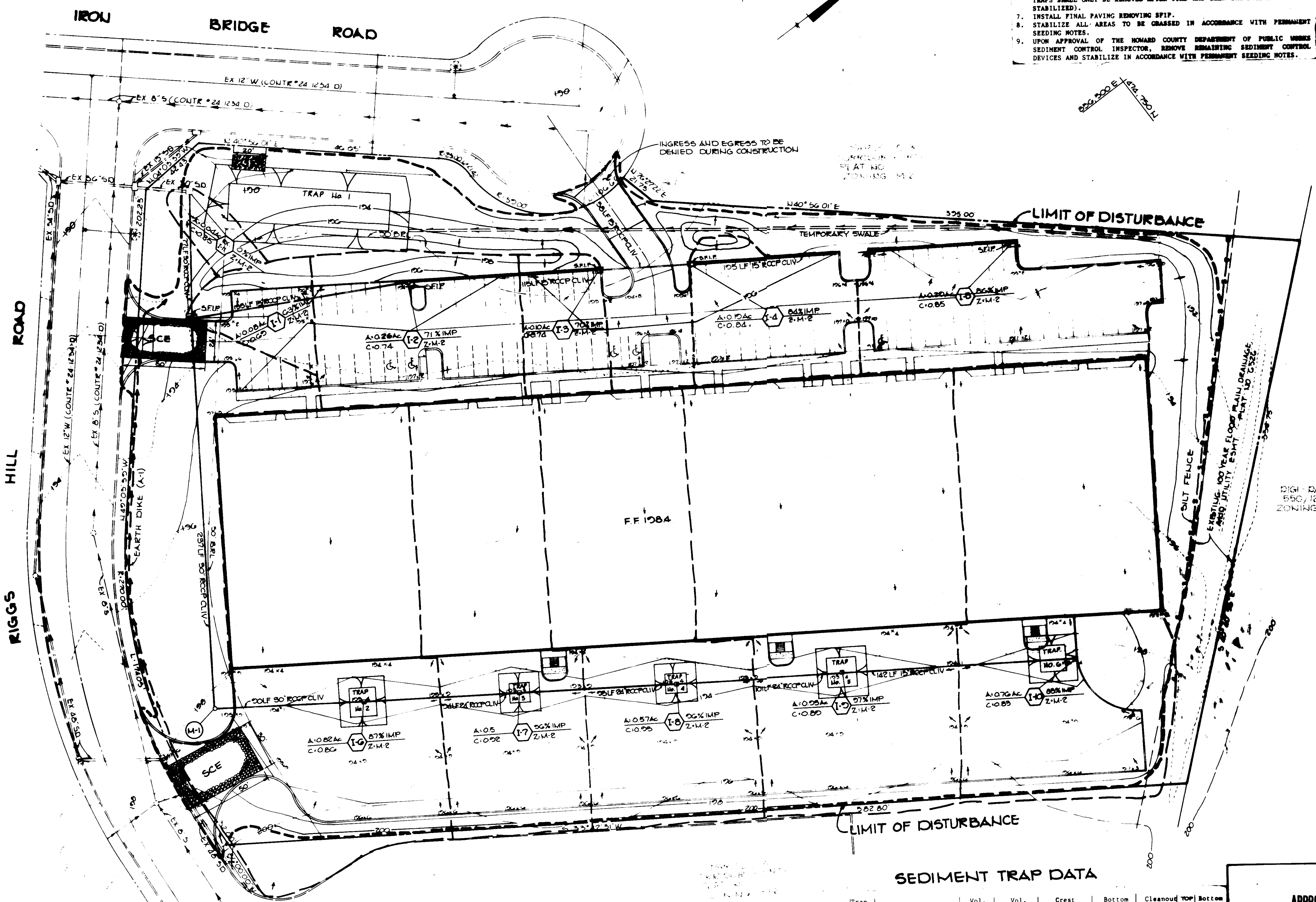
AREA CORRIDOR NORTH TAX MAP NO 48 PARCEL C-4
GTH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE DETAILS AND STORM DRAIN PROFILES

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Elkott City, Maryland 21043 (301) 461-2890

DATE	DESIGNED BY
	DAM
DATE	DRAWN BY
	FDM
DATE	PROJECT NO.
	27500
DATE	SCALE
	AS SHOWN
DATE	DRAWING NO.
	3 OF 6

SDP-86-167



- SEQUENCE OF CONSTRUCTION**
- OBTAIN A GRADING PERMIT.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE, TEMPORARY SWALE, EARTH DIKE AND TRAP NO. 1.
 - ROUGH GRADE SITE; INSTALL STORM DRAINAGE AND TRAP NO. 2.
 - STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
 - INSTALL REMAINDER OF UTILITIES, BEGIN BUILDING CONSTRUCTION AND INSTALL CURB AND GUTTER.
 - INSTALL BASE STONE AND REMOVE INLET TRAPS UNLESSING SPIT (INLET TRAPS SHALL ONLY BE REMOVED AFTER CURB HAS BEEN BACKFILLED AND AREA STABILIZED).
 - INSTALL FINAL PAVING REMOVING SPIT.
 - STABILIZE ALL AREAS TO BE GRASSED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
 - UPON APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ALL PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF SOIL CONSERVATION APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

DEVELOPER: *Arthur E. Mays* DATE: *3-18-86*

BY THE ENGINEER:

"I CERTIFY THAT THIS PLAN FOR DESIGN AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

ENGINEER: *Arthur E. Mays* DATE: *3-18-86*

REVIEWED FOR: *Howard* DATE: *3-18-86*

AND MEETS TECHNICAL REQUIREMENTS

Stephen L. Plank DATE: *7-11-86*
U.S. SOIL CONSERVATION SERVICE

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

Stephen L. Plank DATE: *7/11/86*
HOWARD COUNTY

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE BY HOWARD COUNTY HEALTH DEPARTMENT.

James P. Boyle DATE: *7-21-86*
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Thomas L. Harris DATE: *7-22-86*
PLANNING DIRECTOR

William M. ... DATE: *7-22-86*
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James F. ... DATE: *7-16-86*
DIRECTOR

Robert ... DATE: *7-16-86*
CHIEF, BUREAU OF ENGINEERING

DATE NO. REVISION

OWNER/DEVELOPER: ROWE DEVELOPMENT COMPANY, P.O. BOX 1555 SUITE 220, 1001 E. MAIN STREET, RICHMOND, VIRGINIA 23210

PROJECT: CORRIDOR NORTH PARCEL C-4

AREA: CORRIDOR NORTH PARCEL C-4, TAX MAP LD 46, 6TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

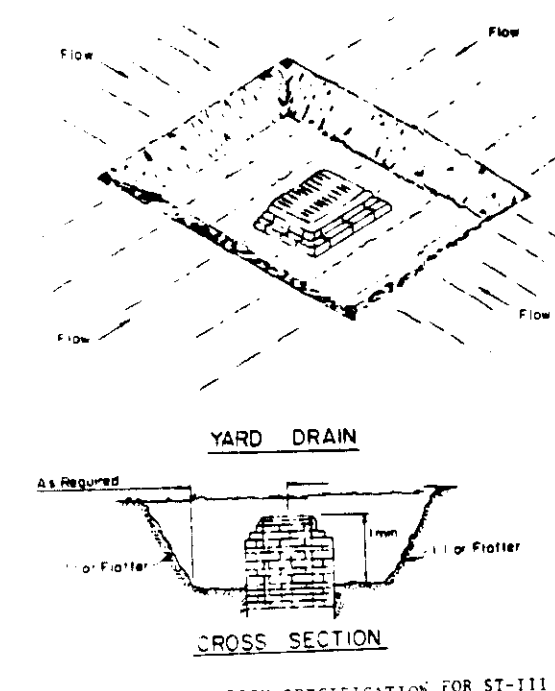
THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-9999

APPROVED: DIVISION OF LAND DEVELOPMENT ZONING ADMINISTRATION, HOWARD COUNTY, MARYLAND, DATE: *3-18-86*

DESIGNED BY: DAM
DRAWN BY: DAM
PROJECT NO: 27500
DATE: 2-17-86
SCALE: 1"=50'
ENGINEER NO: *Arthur E. Mays*

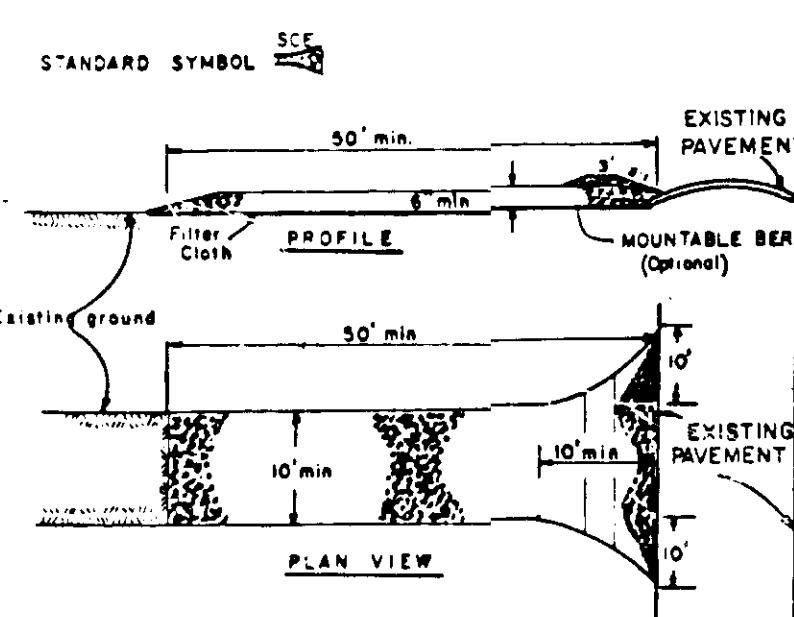
SEDIMENT TRAP DATA

Trap No.	Type	DA	Vol. Req.	Vol. Prov.	Crest Elev.	Bottom Elev.	Cleanout Elev.	TOP Elev.	Bottom Elev.
1	Stone Outlet	5.0	9000	9156	190.00	187.00	188.50	23' x 9'	
2	Inlet	0.82	1476	1584	193.4	190.4	191.9	16' x 14'	
3	Inlet	0.53	954	972	193.4	190.4	191.9	12' x 12'	
4	Inlet	0.57	1026	1083	193.4	190.4	191.9	13' x 13'	
5	Inlet	0.93	1674	1728	193.4	190.4	191.9	18' x 18'	
6	Inlet	0.76	1368	1452	193.4	190.4	191.9	16' x 16'	

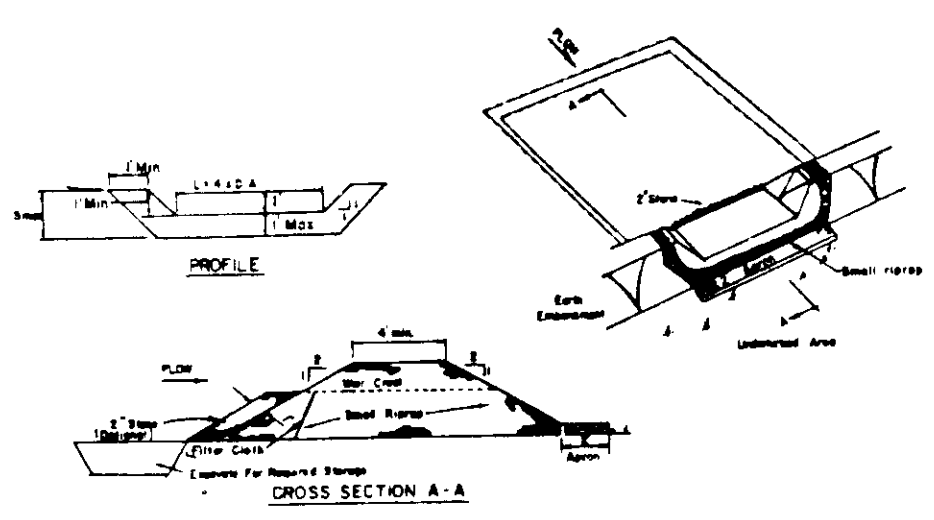
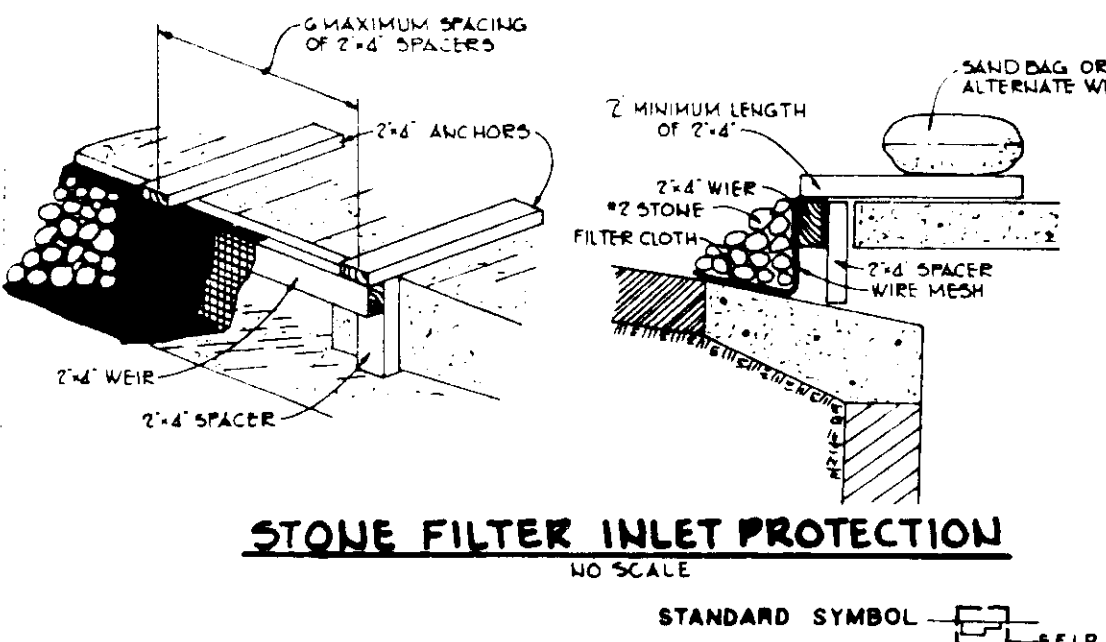


- CONSTRUCTION SPECIFICATIONS FOR ST-111**
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Sediment shall be disposed in a suitable area and in a manner that it will not erode.
 - The volume of sediment storage shall be 1800 cubic feet per acre of contributors drainage.
 - 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 shall be minimized.
 - The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
 - All cut slopes shall be 1:1 or flatter.

STONE INLET SEDIMENT TRAP
NO SCALE

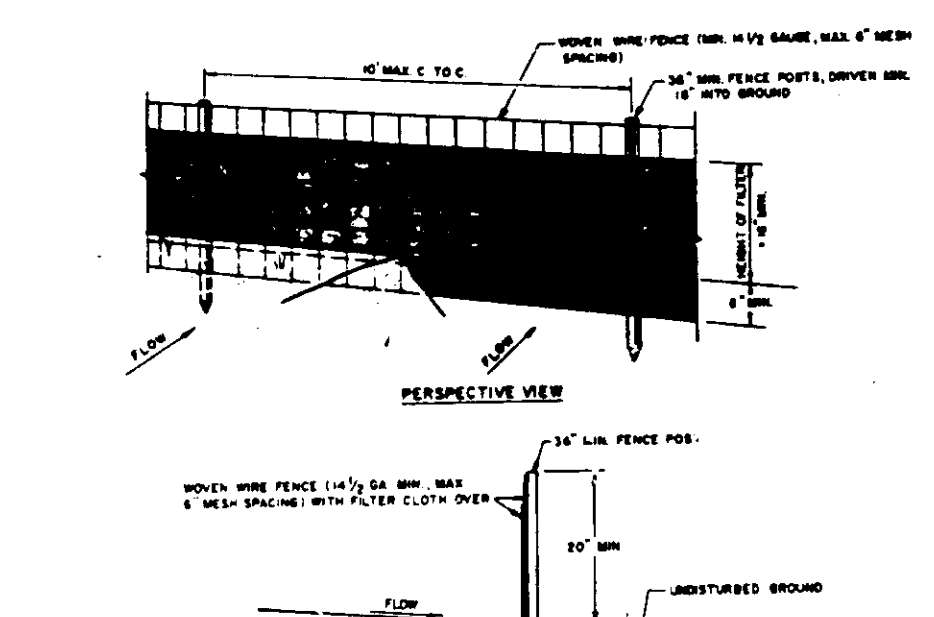


- Construction Specifications FOR STONE FILTER INLET PROTECTION**
- Materials**
 - Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, 80S, 40-85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, since fines would clog the cloth.
 - 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 metal strapping 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 posts.
 - 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 to compacted 6" layers until lower 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 to the ditchline below it. The top of this dike is to be at least 6" higher than the top of the frame (weir).
 - This structure must be inspected frequently and the filter fabric replaced when clogged.
 - Curb Inlet Protection.**
 - Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow dikes directing flow into inlet, temporary earth or asphalt dikes directing flow into inlet.



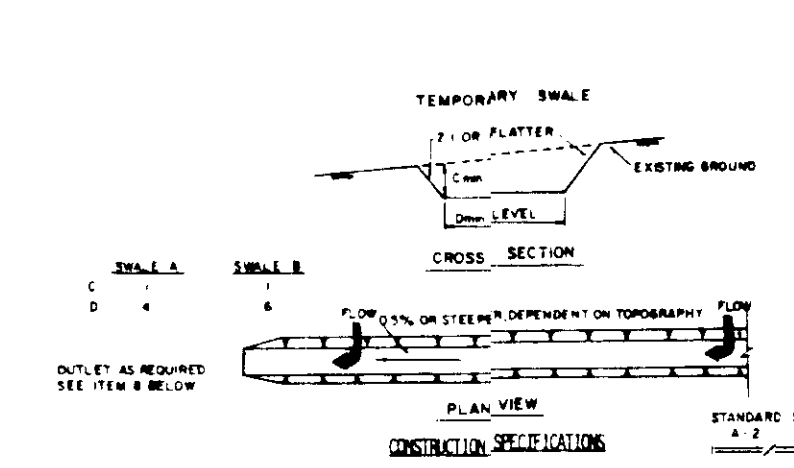
- CONSTRUCTION SPECIFICATIONS FOR ST-112**
- Area under construction shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of rocks and other woody vegetation as well as oversized stones, rocks, stumps, 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 1:1 or flatter.
 - The stone used in the outlet shall be small stones 1/2" to 1" in diameter with 1" thickness of 2" aggregate placed on the upstream side on the small stones 22' embankment filter cloth in the 1979's.
 - Equipment 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 area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP
NO SCALE



- CONSTRUCTION NOTES FOR STABILIZED SILT FENCE**
- MOVIE WIRE FENCE TO BE FASTENED REGULARLY TO FENCE POSTS WITH NINE TIES OF STAPLES.
 - FILTER CLOTH TO BE FASTENED REGULARLY TO MOVIE WIRE FENCE WITH THIS SPACING.
 - WASH EACH SECTION OF FILTER CLOTH. CLEAN EACH OTHER TWO SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEARLY AS PRACTICABLE BY THE USER.

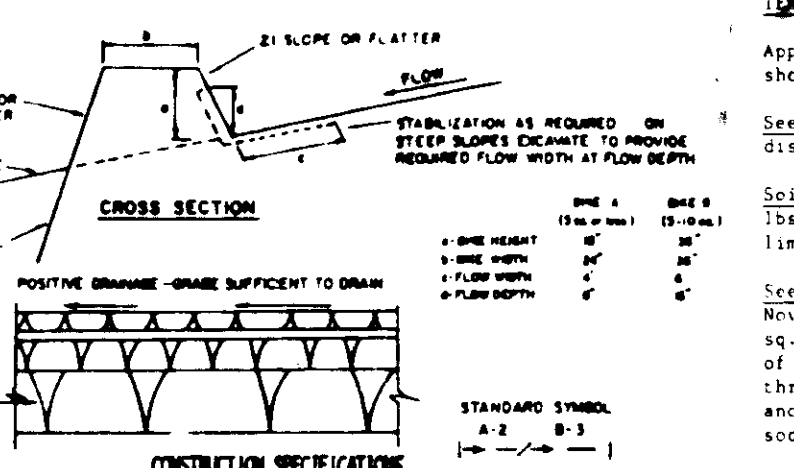
STABILIZE CONSTRUCTION ENTRANCE
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
- TEMPORARY SWALES SHALL HAVE UNIFORM POSITIVE SLOPE TO AN OUTLET.
 - SWALES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE TO AN OUTLET.
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 - SWALES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE TO AN OUTLET.

TEMPORARY SWALE
NO SCALE

SILT FENCE
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
- ALL DICES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
 - FILL DICES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - TOP SURFACE SHALL BE SMOOTH AND SLOPE UP TO FACILITATE CLEANING BY CONSTRUCTION TRAFFIC.
 - FILL DICES SHALL BE CONSTRUCTED AS NEARLY AS POSSIBLE TO FACILITATE CLEANING BY CONSTRUCTION TRAFFIC.
 - FILL DICES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. FILL DICES SHALL BE CONSTRUCTED TO RESIST TRAFFIC IMPACT SUCH AS A REVERSE TURN OR REVERSE BRAKE WHEN ENTERING THE DRIVE CHANNEL OR THE DRIVE AREA ABOVE THE DICE AND BE PROPERLY STABILIZED.
 - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR OTHER MULCH IF NOT IN SEEDING SEASON; (B) FILL CHANNEL AS PER THE CHART BELOW.

EARTH DIKE
NO SCALE

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437).
- 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 Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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	2.7 acres
Area Disturbed	2.0 acres
Area to be roofed or paved	4.0 acres
Area to be vegetatively stabilized	10000 Cu. yds.
Total Cut	10000 Cu. yds.
Total Fill	10000 Cu. yds.
- 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 DPM sediment control inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
- Soil Amendments:** Apply 0-20-20 fertilizer at the rate of 500 lbs. per acre. Nitrogen or disc line 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 work rake. At the time of seeding, apply 400 lbs. of 30-0-0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.
- Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs. per acre (1 lb./1000 sq-ft.) of a mixture of certified "Merion" Kentucky Bluegrass; common Kentucky bluegrass @ 40 lbs. per acre (1 lb./1000 sq-ft.) and Red Fescue, Pennlawn or Jameson @ 20 lbs. per acre (0.2 lb./1000 sq-ft.) for the period May 1 thru July 31, seed with 40-60-20 mix as specified above and 2 lbs. per acre (0.05 lb./1000 sq-ft.) of creeping lovegrass. During the period of October 16 thru February 28, protect site by (Option 1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring. (Option 2) Use sod. (Option 3) Seed with 40-60-20 mix specified above and mulch with 2 tons/acre well-anchored straw.
- Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq-ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq-ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq-ft.) for anchoring.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacement and reseeding.

TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.
- Soil Amendments:** Apply 600 lbs. per acre 10-10-10 fertilizer (34 lbs./1000 sq-ft.) where soil is highly acidic, apply dolomitic limestone at the rate of 1 ton per acre.
- Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 160 lbs. per acre of annual rye (3.2 lbs./1000 sq-ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (1.07 lb./1000 sq-ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq-ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq-ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq-ft.) for anchoring.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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.
Walter J. ...
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 COUNTY SOIL CONSERVATION DISTRICT.
Arthur E. Muegge
ENGINEER DATE
ARTHUR E. MUEGGE

REVIEWED FOR HOWARD NAME S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
Arthur E. Muegge 7-11-86 DATE
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Stephen L. ... 7/11/86 DATE
HOWARD S.C.D.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph ... 7-21-86 DATE
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Arthur E. Muegge 7-22-86 DATE
PLANNING DIRECTOR

Arthur E. Muegge 7-22-86 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
Arthur E. Muegge 7-22-86 DATE
DIRECTOR

Arthur E. Muegge 7-22-86 DATE
CHIEF, BUREAU OF ENGINEERING

DATE	NO	REVISION

OWNER/DEVELOPER
ROWE DEVELOPMENT COMPANY
PO BOX 1555 SUITE 020
1001 E. MAIN STREET
RICHMOND, VIRGINIA 23219

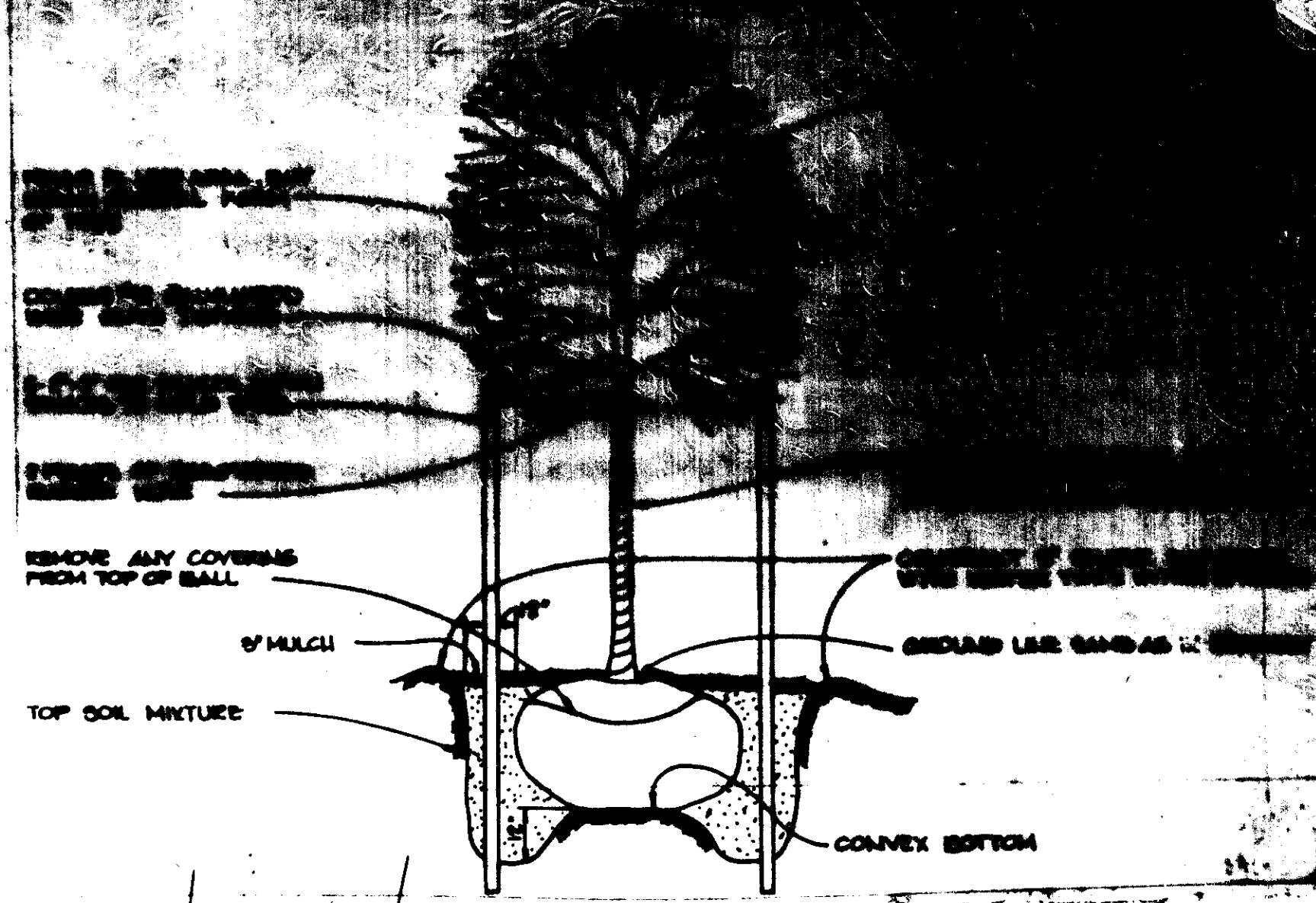
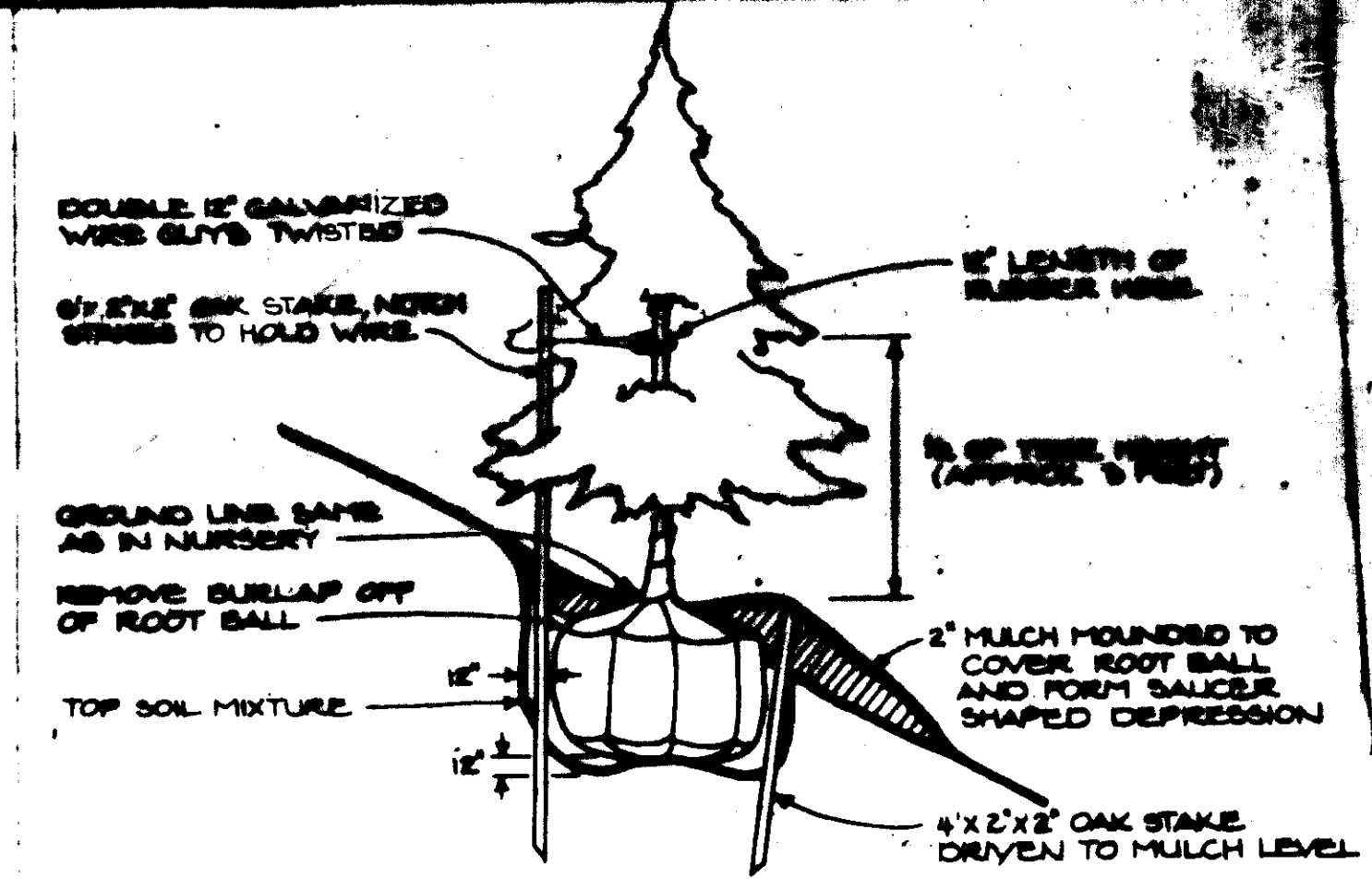
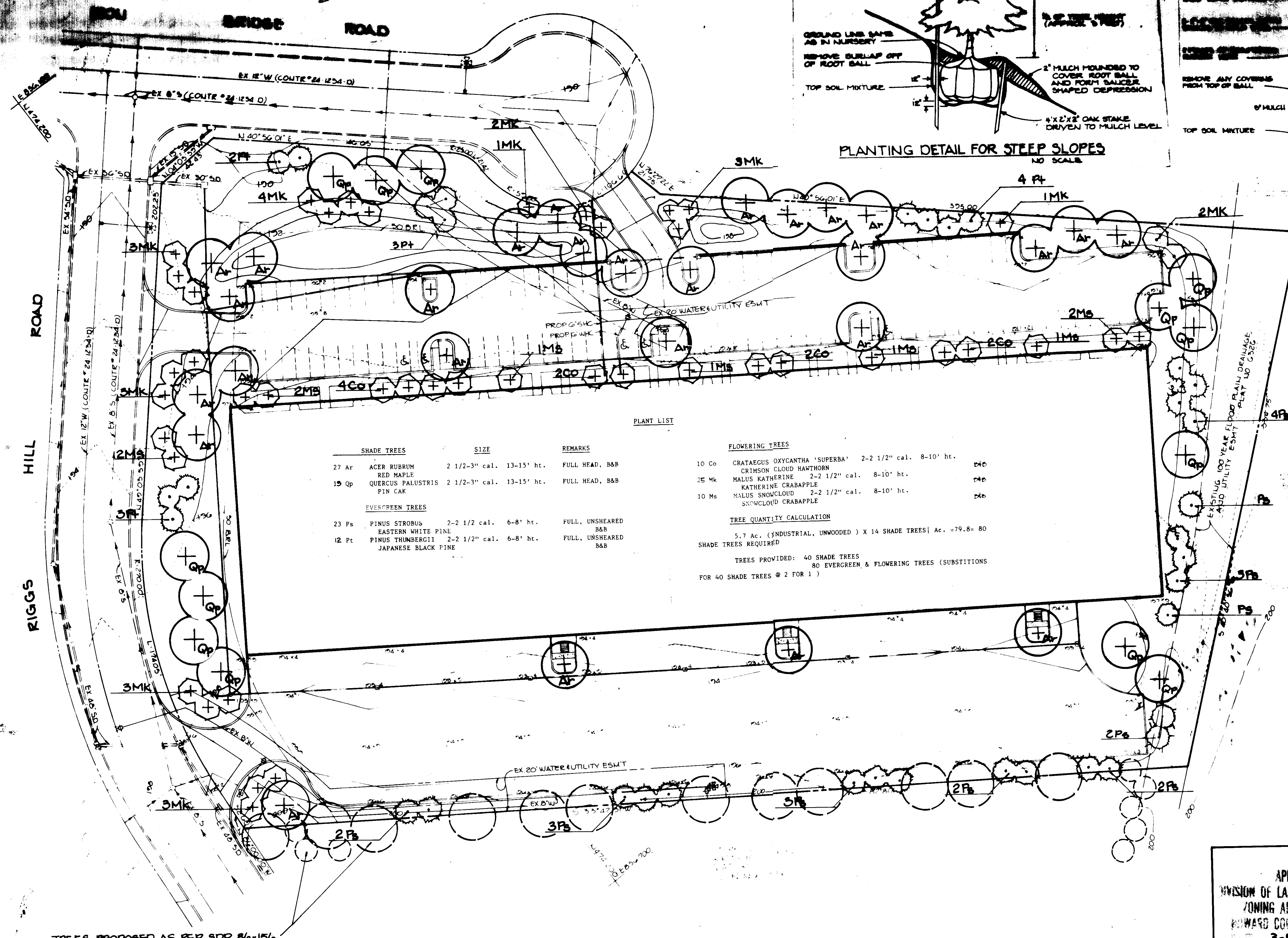
PROJECT **CORRIDOR NORTH PARCEL C-4**
AREA CORRIDOR NORTH TAX MAP NO. 48 PARCEL C-4
CATH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **SEDIMENT CONTROL NOTES AND DETAILS**

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Heath Park Drive, Ellicott City, Maryland 21043 (301) 461-2680

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE **3-18-86**
Arthur E. Muegge

DESIGNED BY: DAM
DRAWN BY: FDM
PROJECT NO: 27500
DATE: 2-17-85
SCALE: AS SHOWN
DRAWING NO: 5 OF 36



PLANT LIST

SHADE TREES		SIZE	REMARKS
27 Ar	ACER RUBRUM RED MAPLE	2 1/2-3" cal.	13-15' ht. FULL HEAD, B&B
15 Qp	QUERCUS PALUSTRIS PIN OAK	2 1/2-3" cal.	13-15' ht. FULL HEAD, B&B
EVERGREEN TREES			
23 Ps	PINUS STROBUS EASTERN WHITE PINE	2-2 1/2 cal.	6-8' ht. FULL, UNSHEARED B&B
12 Pt	PINUS THUNBERGII JAPANESE BLACK PINE	2-2 1/2" cal.	6-8' ht. FULL, UNSHEARED B&B

FLOWERING TREES				
10 Co	CRATAEGUS OXYCANTHA 'SUPERBA' CRIMSON CLOUD HAWTHORN	2-2 1/2" cal.	8-10' ht.	44b
25 Mk	MALUS KATHERINE KATHERINE CRABAPPLE	2-2 1/2" cal.	8-10' ht.	44b
10 Ms	MALUS SNOWCLOUD SNOWCLOUD CRABAPPLE	2-2 1/2" cal.	8-10' ht.	44b

TREE QUANTITY CALCULATION
 5.7 Ac. (INDUSTRIAL, UNWOODED) X 14 SHADE TREES/Ac. = 79.8 = 80 SHADE TREES REQUIRED
 TREES PROVIDED: 40 SHADE TREES
 80 EVERGREEN & FLOWERING TREES (SUBSTITUTIONS FOR 40 SHADE TREES @ 2 FOR 1)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joyan Adams 7-21-86
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas L. Hamby 7-22-86
 PLANNING DIRECTOR DATE

Schultz 7-22-86
 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
Director 7-15-86
 DIRECTOR DATE

Chief 7-15-86
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER
 ROWE DEVELOPMENT COMPANY
 P.O. BOX 1395 SUITE 920
 1001 E. MAIN STREET
 RICHMOND, VIRGINIA 23219

PROJECT **CORRIDOR NORTH PARCEL C-4**

AREA CORRIDOR NORTH TAX MAP 10 45 PARCEL C-4
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE **PLANTING PLAN**

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE **3-18-86**
M. Ham

THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3100 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-9888

Feb 10, 1986
 DATE

DESIGNED BY R.L.H.
 DRAWN BY R.L.H.
 PROJECT NO 27500
 DATE 2-10-86
 SCALE 1"=30'
 DRAWING NO. 6 OF 6

Melanie Moser
 MELANIE E. MOSER

TREES PROPOSED AS PER SDP 86-156