

GENERAL NOTES

- PRIOR TO THE START OF ANY OPERATIONS, THE CONTRACTOR SHALL STAKE OUT THE BASELINES OF CONSTRUCTION, PROPOSED BUILDING AND VERIFY SETBACKS AND OFFSET DIMENSIONS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT (301) 531-4240 AT LEAST 72 HRS. PRIOR TO STARTING EXCAVATION TO VERIFY ALL LOCATIONS.
- ABUTTING PROPERTIES TO BE PROTECTED FROM DAMAGE REPAIRS ARE AN OBLIGATION OF THE CONTRACTOR. ACCESS TO AREAS OUTSIDE THE LIMIT OF CONTRACT WITHIN THE PROPERTY LINE IS PROHIBITED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO EXISTING VEGETATION AND ANY VIOLATIONS OF THE PROTECTED AREAS.
- ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST HOWARD COUNTY VOLUME IV - STANDARD SPECIFICATION AND DETAILS.
- THE INFORMATION ON THESE PLANS IS FOR THE CONVENIENCE OF THOSE CONCERNED ONLY. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN SATISFACTION.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL DISTURBED AREAS NOT STABILIZED WITH PAVING, SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT CONTROL PLAN, PRIOR TO CONTRACT COMPLETION.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES.
- TOPOGRAPHIC SURVEY WAS DONE BY LORIA ENGINEERING ON 10/24/94.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR OR THE DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HRS. IN ADVANCE OF COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEMS.
- THE PROPOSED CONSTRUCTION IS FOR EMERGENCY ACCESS ONLY.
- THERE ARE NO WETLANDS WITHIN THE LIMITS OF DISTURBANCE SHOWN. THEREFORE, SECTION 404 AND SECTION 401 DO NOT APPLY AND PERMITS ARE NOT REQUIRED.
- THE PROPOSED PAVING IS LESS THAN 5000 S.F. ; NO STORMWATER MANAGEMENT IS REQUIRED.
- DEPARTMENT OF PLANNING AND ZONING FILES PB CASE NO. 168, VP 82-92, BA CASE NO. 85-30 E, BA CASE NO. 83-54 E, PB CASE NO 212, VP 84-32, VP 84-70, S-87-36, BP-267, FDR-PEC-1A, S 90-37, SDP-90-116 & SDP 91-92, SDP-93-29, SDP-94-29, SDP-94-51

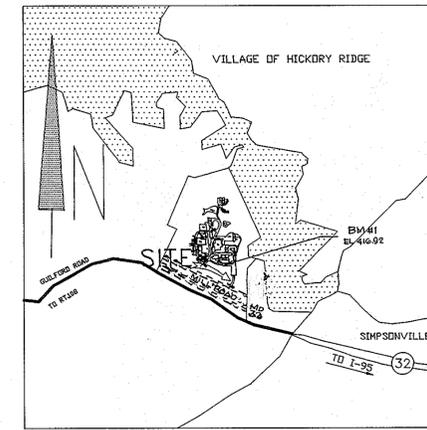
HOWARD RESEARCH AND DEVELOPMENT CORP.
401/124
ZONED NEW TOWN

W R GRACE AND CO.
273/186

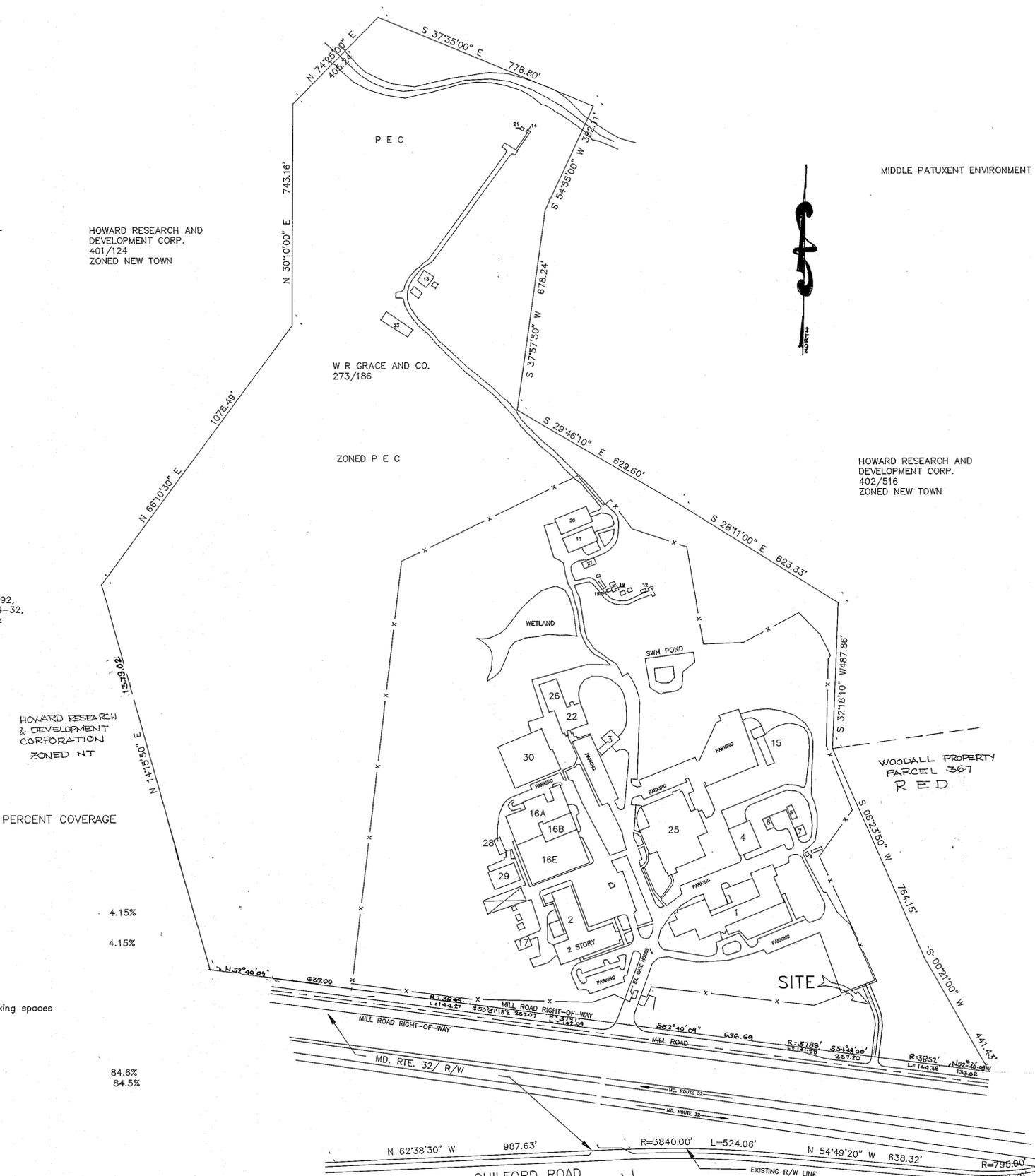
ZONED P E C

MIDDLE PATUXENT ENVIRONMENT AREA

HOWARD RESEARCH AND DEVELOPMENT CORP.
402/516
ZONED NEW TOWN



VICINITY MAP
SCALE: 1"=2000'



INDEX

SHEET	DESCRIPTION
1	COVER
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN

SITE ANALYSIS

PRESENT ZONING	PEC
AREA OF PROPERTY	126.28ACRES
AREA OF SUBMISSION	0.22ACRES
BUILDING COVERAGE	
EXISTING	229,377 S.F. = 5.27 ACRES
PROPOSED	0 S.F.
TOTAL FLOOR SPACE	
EXISTING	229,377 S.F. = 5.27 ACRES
PROPOSED	0 S.F.
TOTAL	229,377 S.F. = 5.27 ACRES
NUMBER OF EMPLOYEES	
EXISTING	598
PROPOSED	0
TOTAL	598
NUMBER OF PARKING SPACES	
EXISTING	541 includes 5 handicapped parking spaces
TOTAL REQUIRED	419
OPEN SPACE	
EXISTING	106.88 ACRES
PROPOSED	106.74 ACRES

PERCENT COVERAGE

LOCATION PLAN
SCALE 1" = 200'

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
P 145	7379 GUILFORD ROAD
SUBDIVISION NAME	SECTION/AREA LOT PARCEL
W.R. GRACE & CO.	35 P 145
PLAT NUMBER	BLOCK NUMBER ZONE TAX/ZONE MAP ELECTION DISTRICT 5th CENSUS TRAC
273/186	22 P E C 35 5th 6053.01
WATER CODE	SEWER CODE
N/A	6440000
APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	
<i>John M. ...</i>	10-19-94 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>James ...</i>	10/25/94 DATE
APPROVED: FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEM AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>James ...</i>	10/25/94 DATE
APPROVED: FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEM AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>James ...</i>	10/24/94 DATE

Loria engineering inc.
CONSULTING ENGINEERS
3230 BETHANY LANE, SUITE 4
ELLCOTT CITY, MARYLAND 21043
TEL (410) 465-0400

GRACE

W.R. GRACE & CO. - CONN.
WASHINGTON RESEARCH CENTER
7379 ROUTE 32
COLUMBIA, MARYLAND 21044
PROPOSED EMERGENCY ACCESS

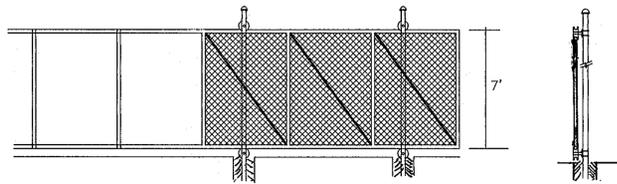


COVER SHEET

REVISIONS		
DATE	BY	DESCRIPTIONS

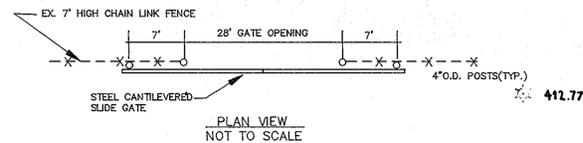
SCALE: 1" = 200'
DATE: 08-09-94
DRWN: JER
DESIGN: JER
CHKD: MLL
PROJECT NO.: 94-001

SHEET NUMBER
1 OF 3

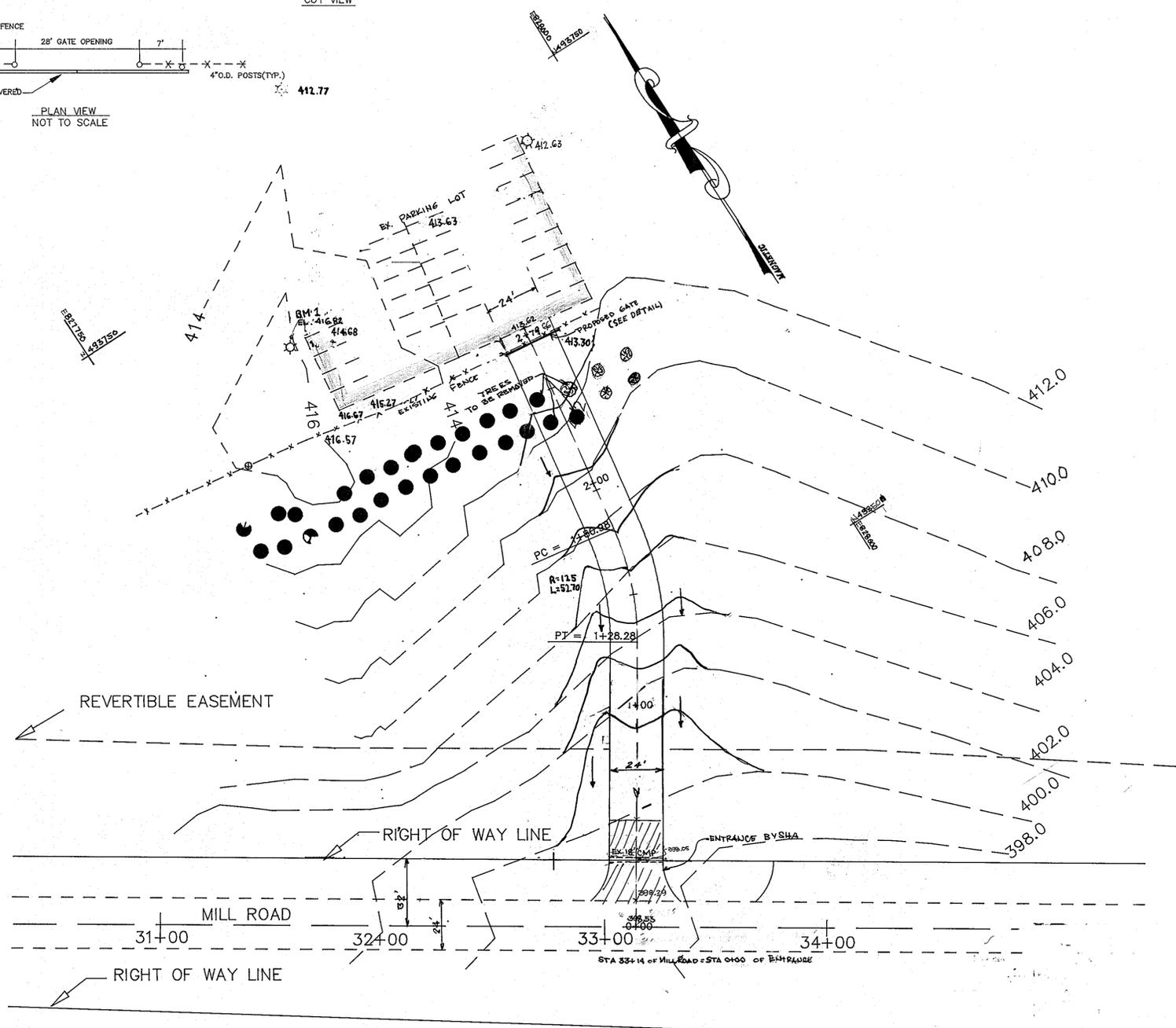


ELEVATION - SLIDE GATE (ALL GALVANIZED)
NOT TO SCALE

CUT VIEW



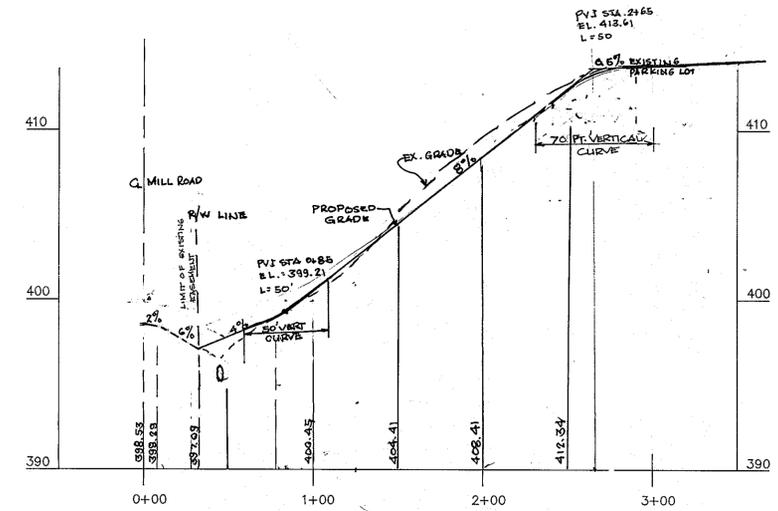
PLAN VIEW
NOT TO SCALE



PLAN

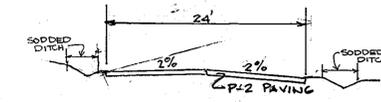
SCALE: 1" = 30"

BM# 1 - BASE OF LAMPPOST EL. 416.82

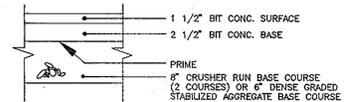


PROFILE

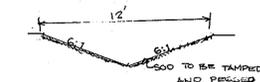
1" = 5' VERTICAL
1" = 50' HORIZONTAL



DRIVEWAY SECTION
NOT TO SCALE



PAVING SECTION
NOT TO SCALE



SODDED DITCH DETAIL
NOT TO SCALE

LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- EXISTING PAVING
- PROPOSED PAVING
- DRAINAGE FLOW
- ARROW

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
P 145	7379 GUILFORD ROAD
SUBDIVISION NAME	SECTION/AREA LOT PARCEL
W.R. GRACE & CO.	P 145
PLAT NUMBER	BLOCK NUMBER ZONE TAX/ZONE MAP ELECTION DISTRICT CENSUS TRAC
273/186	22 P E C 35 5th 6053.01
WATER CODE	SEWER CODE
N/A	6440000

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
Joseph W. King COUNTY HEALTH OFFICER *C.S.M.* DATE: 10/19/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
PLANNING DIRECTOR: *Joseph W. King* DATE: 10/25/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *John Krummrich* DATE: 10/25/94

APPROVED: FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEM AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR: *James G. ...* DATE: 10/24/94
CHIEF, BUREAU OF ENGINEERING: *James G. ...* DATE: 10/24/94



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COLUMBIA, MARYLAND 21044

SITE DEVELOPMENT PLANS

PROPOSED EMERGENCY ACCESS

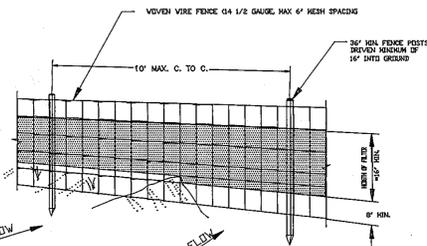
REVISIONS		
DATE	BY	DESCRIPTIONS

SCALE: 1" = 30'	SHEET NUMBER
DATE: 08.01.94	2 OF 3
DRWN: JER	
DESIGN: MLL	
CHKD: MLL	

SEQUENCE OF CONSTRUCTION:

1. OBTAIN GRADING PERMIT.
2. INSTALL ELABORATE PLASTIC WIRE MESH TREE PROTECTION.
3. INSTALL ALL SEDIMENT CONTROL STRUCTURES SHOWN ON THIS PLAN SUCH AS STONE CONSTRUCTION ENTRANCE, EARTH DIKES & SILT FENCE.
4. GRADE AREAS AS SHOWN AND CONSTRUCT THE ROAD.
5. STABILIZE ALL DISTURBED AREAS.
6. REMOVE ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH HOWARD COUNTY SEDIMENT CONTROL DIVISION REQUIREMENT.

SILT FENCE



PERSPECTIVE VIEW

SECTION

STANDARD SYMBOL

PERMANENT SEEDING NOTES

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

SEEDING PREPARATION: LEISURE UPON THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING UNLESS PREVIOUSLY LISTED.

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

- 1) PREFERRED - APPLY 2 TONS PER ACRE SOLIDOTIC LIME/STROM 60 LBS/1000 SQUARE FEET AND 600 LBS PER ACRE 30-20-10 FERTILIZER 60 LBS/1000 SQ FT.
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE SOLIDOTIC LIME/STROM 60 LBS/1000 SQ FT AND 1000 LBS PER ACRE 10-10-10 FERTILIZER 600 LBS/1000 SQ FT BEFORE SEEDING. HARROW OR DISC INTO THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 50 LBS PER ACRE 60 LBS/1000 SQ FT OF KEYHOLE 30 TALL FESCUE OR 50 LBS PER ACRE MAY 1 THRU JULY 31, SEED WITH 60 LBS PER ACRE TALL FESCUE PER ACRE, AND 100 LBS PER ACRE 30-20-10 FERTILIZER 60 LBS/1000 SQ FT. MAKE THE PERIOD OF OUTSIDE SEEDING FROM FEBRUARY 15 THROUGH APRIL 30, SEED WITH 5 TONS PER ACRE OF WELLS-MANAGED STRAW MULCH AND SOIL AS SOON AS POSSIBLE IN THE SPRING. OPTION 2) TONS PER ACRE OF SEED WITH 60 LBS/ACRE KENTUCKY 30 TALL FESCUE AND MULCH WITH 5 TONS/ACRE WELLS-MANAGED STRAW MULCH.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE 0 TO 90 LBS/1000 SQ FT OF UNMATTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GAL PER ACRE 0.5 GAL/1000 SQ FT OF ENHANCED ASPHALT OR FLAT AREAS - ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE OF GAL/1000 SQ FT FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND MAINTENANCE OPERATIONS.

TEMPORARY SEEDING NOTES

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

SEEDING PREPARATION: LEISURE UPON THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING UNLESS PREVIOUSLY LISTED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER 60 LBS/1000 SQ FT.

SEEDING FOR PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 5 TONS PER ACRE OF ANNUAL RYE GRASS 60 LBS/1000 SQ FT. FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 5 LBS PER ACRE OF WHEAT 60 LBS/1000 SQ FT. FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PREPARE SITE BY APPLYING 5 TONS PER ACRE OF WELLS-MANAGED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOIL.

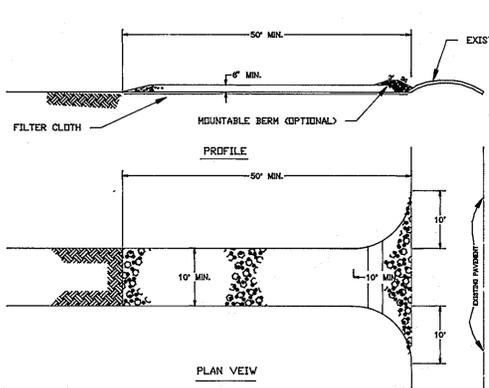
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REFER TO THE 1969 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

CONSTRUCTION NOTES FOR FABRICATION SILT FENCE

1. WIRE MESH FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WIRE MESH FENCE WITH SPACED WIRE EVERY 8" AT TOP AND SIDES.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 10" OVER AND UNDER.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

STABILIZED CONSTRUCTION ENTRANCE



STANDARD SYMBOL

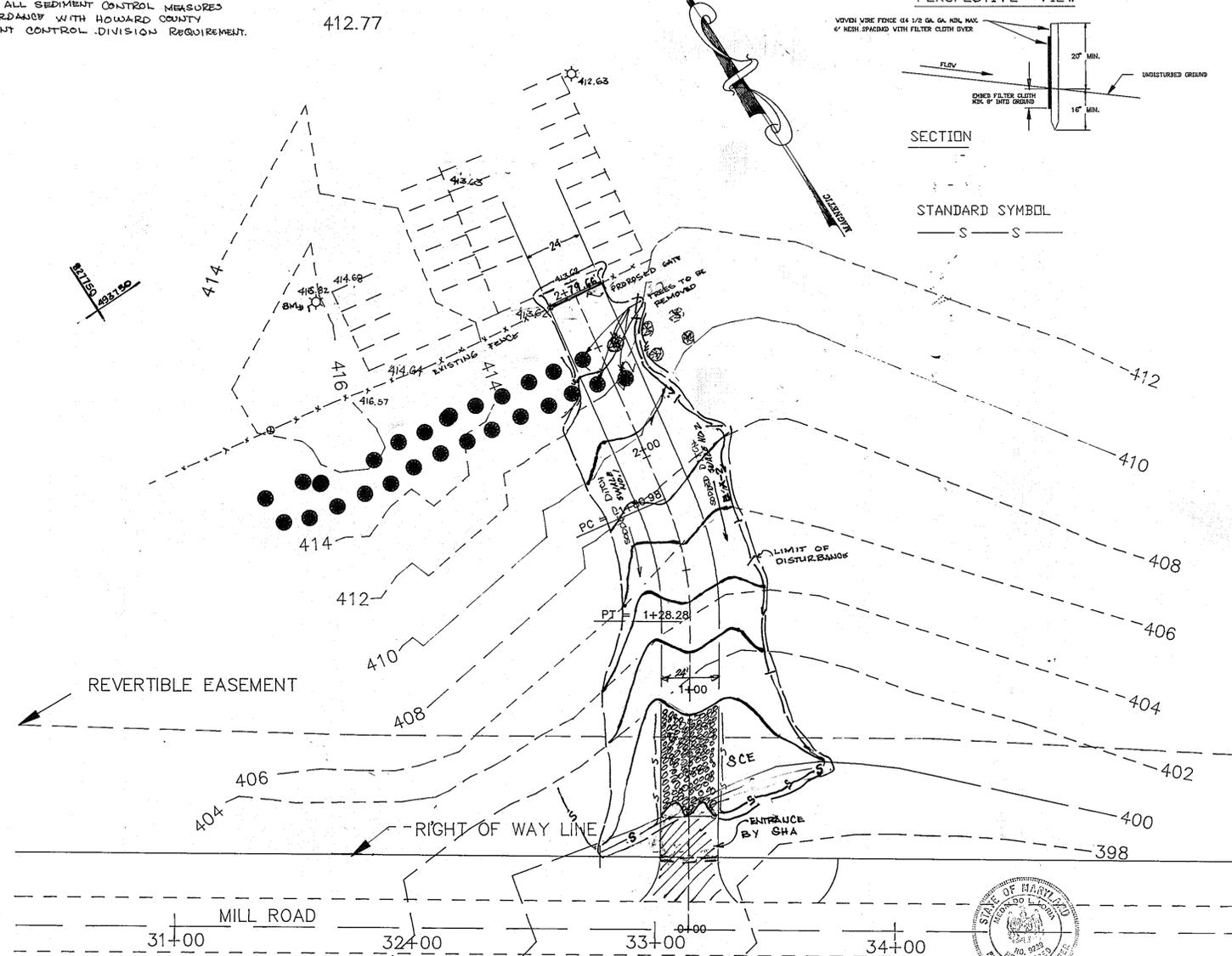
LEGEND

- EXISTING GRADES --- 400 ---
- PROPOSED GRADES --- 400 ---
- LIMIT OF DISTURBANCE --- 400 ---
- TREE PROTECTION PLASTIC MESH --- W ---
- SILT FENCE --- S ---
- STONE CONSTRUCTION ENTRANCE --- [Symbol] ---

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
P 145	7379 GUILFORD ROAD
SUBDIVISION NAME	SECTION/AREA
W.R. GRACE & CO.	P 145
PLAN NUMBER	TAX/ZONE MAP
273/188	22 P E C 35
WATER CODE	SEWER CODE
N / A	6440000
APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joseph B. ...</i> COUNTY HEALTH OFFICER DATE: 10-19-94	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>James ...</i> PLANNING DIRECTOR DATE: 10/25/94	
<i>Uma ...</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE: 10/25/94	
APPROVED: FOR PUBLIC SEWERAGE, STORM DRAINAGE SYSTEM AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>James ...</i> DIRECTOR DATE: 10/24/94	

REVISIONS	
DATE	DESCRIPTIONS

SCALE: 1" = 30'
 DATE: 08.01.94
 DRWN: JER
 DESGN: MLL
 CHKD: MLL
 SHEET NUMBER: 3 OF 3
 SDP 95.14



PLAN

SCALE: 1" = 30'

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

W.R. Grace & Co.
 BUILDER/DEVELOPER
 DATE: 8/2/94

ENGINEER'S CERTIFICATE

I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site and conditions and it was prepared in accordance with the requirements of Howard Soil Conservation District.

W.R. Grace & Co.
 SIGNATURE OF ENGINEER
 DATE: 8/2/94

These plans have been reviewed for Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.

Patricia ...
 REGISTERED PROFESSIONAL ENGINEER
 DATE: 10/16/94

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

W.R. Grace & Co.
 REGISTERED PROFESSIONAL ENGINEER
 DATE: 10/16/94

loria engineering inc.
 CONSULTING ENGINEERS
 6507 Main Street, Ellicott City, MD 21043
 410-465-0400

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 7379 ROUTE 32
 COLUMBIA, MARYLAND 21044

PROPOSED EMERGENCY ACCESS

SEDIMENT CONTROL PLAN & SEDIMENT CONTROL NOTES