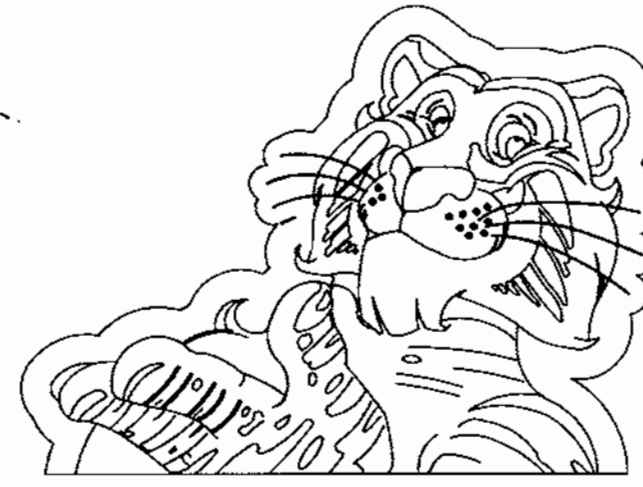


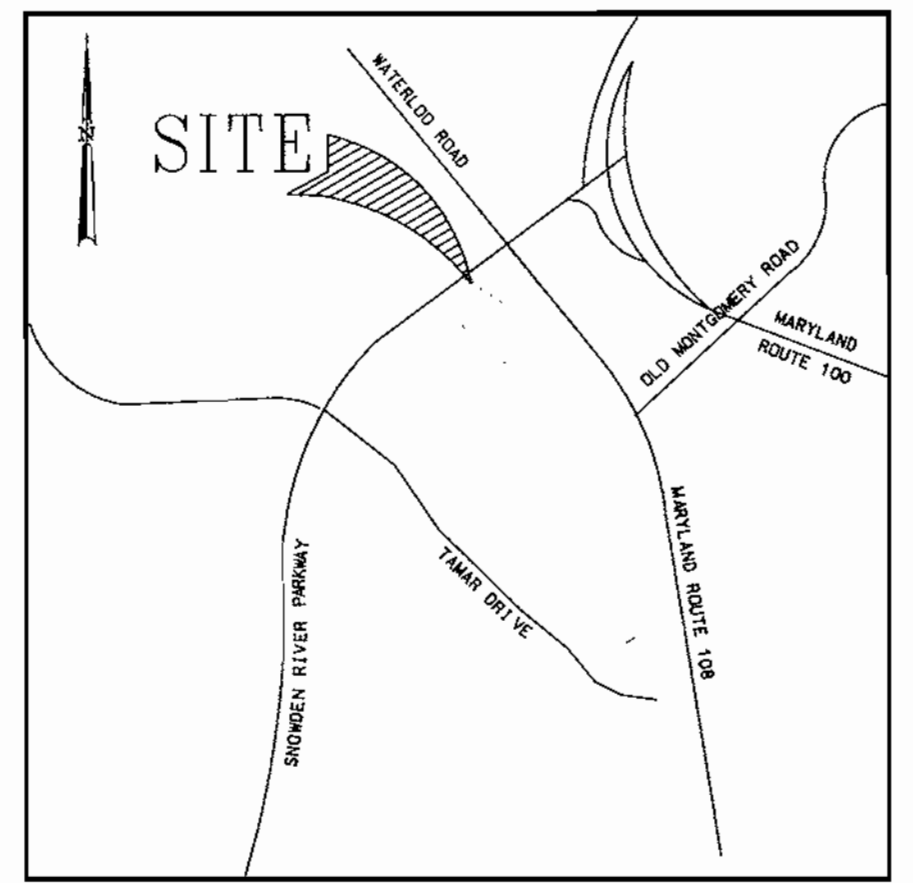
EXXON



8251 SNOWDEN RIVER PARKWAY
COLUMBIA, HOWARD COUNTY, MARYLAND 21045
RAS# 2-0443

LEGEND

- | | |
|-----------------------|----------------------------|
| ↓ GUY WIRE | △ TRAVERSE POINT |
| ○ SIGN | TC TRAFFIC CONTROL DEVICE |
| ○ POWER POLE | SC SANITARY CLEAN OUT |
| ○ LIGHT POLE | ○ WELL |
| ⊗ FIRE HYDRANT | MAILBOX |
| ○ MONITOR WELL | DECIDUOUS TREE |
| ○ WATER VALVE | EVERGREEN TREE |
| ○ GAS VALVE | — WATERLINE |
| — UNDERGROUND GAS | — SD - STORM DRAIN |
| — OH - OVERHEAD LINES | — E - UNDERGROUND ELECTRIC |
| — SS - SANITARY SEWER | (ETR) EXISTING TO REMAIN |
| (TYP) TYPICAL | (TBR) TO BE REMOVED |
| (PROP) PROPOSED | |



VICINITY MAP
1"=2000'

BENCHMARK INFORMATION

STATION DESIGNATION HOWARD COUNTY #37A3
STATION IS LOCATED NEAR THE INTER SECTION OF MARYLAND ROUTE 108 & OLD MONTGOMERY ROAD.
NORTH 561,130.798
EAST 1,369,913.218
ELEVATION 384.927' (NAVD 1988)

STATION DESIGNATION HOWARD COUNTY #37A2
STATION IS LOCATED ALONG MARYLAND STATE ROUTE 108 ON THE NORTH SIDE OF HIGHWAY NEAR HOUSE #5866.
NORTH 562,120.845
EAST 1,369,300.204
ELEVATION 402.965' (NAVD 1988)

HOWARD COUNTY ADC MAP
PAGE NUMBER 16
GRID NUMBER F7

SITE ANALYSIS

- AREA OF PARCEL: 68,737 SQ. FT. = 1.5780 AC.±
DISTURBED AREA: 64,904 SQ. FT. = 1.49 AC.±
- ZONING: NEW TOWN - COMMERCIAL LAND USE
FINAL DEVELOPMENT PLAN FDP 229
LAND USE: COMMERCIAL
- EXISTING USE: UNDEVELOPED PARCEL
PROPOSED USES: GASOLINE SERVICE STATION WITH CONVENIENCE STORE AND CAR WASH
- FLOOR SPACE:
 - a. CONVENIENCE STORE:
GROSS AREA: 3,360 SQ. FT. (ONE STORY)
PUBLIC USE FLOOR AREA: 2,400 SQ. FT.
 - b. CAR WASH:
GROSS AREA: 1,326 SQ. FT. (ONE STORY)
TOTAL: 4,686 SQ. FT.
- MAXIMUM NUMBER OF EMPLOYEES: THREE (3)
- PARKING:
 - a. REQUIRED: (PER FDP 229-A SPECIAL SITE CRITERIA FOR GASOLINE STATIONS, H-2)
ONE PER 200 SQ. FT. OF RETAIL STORE AREA FOR PUBLIC USE: 2,400/200 = 12 SPACES
ONE PER EMPLOYEE X 3 EMPLOYEES = 3 SPACES
TOTAL REQUIRED: 15 SPACES
 - b. PROVIDED: 17 SPACES
- OPEN SPACE (LANDSCAPING)
 - a. REQUIRED: 20% OF SITE AREA (13,747 SQ. FT.)
 - b. PROVIDED: 47% OF SITE AREA (128,750 SQ. FT.)
- BUILDING COVERAGE:
 - a. CONVENIENCE STORE: 3,360 SQ. FT.
 - b. CAR WASH: 1,326 SQ. FT.
 - c. CANOPY: 5,186 SQ. FT.
 - TOTAL BUILDING COVERAGE: 9,872 SQ. FT. (14.4%)
- CAR WASH STACKING:
 - a. REQUIRED: 15
 - b. PROVIDED: 15
- PROJECT BACKGROUND:
 - SEE DEPT. OF PLANNING & ZONING FILE NUMBER: F-98-101, SP-98-05, FDP-229, PB-315, W-97-107 & WP-98-34, PLAT# 14126-F-00-57

SHEET INDEX

| SHEET NUMBER | DRAWING TITLE |
|--------------|--|
| 1 | COVER SHEET |
| 2 | ORIENTATION PLAN |
| 3 | EXISTING CONDITIONS AND DEMO PLAN |
| 4 | SITE LAYOUT PLAN |
| 5 | SITE GRADING PLAN |
| 6 | SITE UTILITY PLAN |
| 7 | SITE UTILITY PROFILES AND DETAILS |
| 8 | SITE UTILITY PROFILES |
| 9 | STORMCEPTOR NOTES AND DETAILS |
| 10 | SEDIMENT AND EROSION CONTROL PLAN |
| 11 | SEDIMENT AND EROSION CONTROL NOTES AND DETAILS |
| 12 | BUILDING ELEVATIONS |
| 13 | SITE DETAIL AND SIGNAGE PLAN |
| 14 | SITE LANDSCAPE PLAN |
| 15 | SITE LIGHTING PLAN |

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING FREDERICK WARD ASSOC., INC. AT (410)-290-9550 IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY, WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 WORKING DAYS PRIOR TO BEGINNING WORK:
HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
MISS UTILITY: 1-800-257-7777
CAP TELEPHONE CO. 725-9976
HOWARD COUNTY BUREAU OF UTILITIES 312-3366
AT&T CABLE LOCATION DIVISION 393-3553
BG&E 685-0123
NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS- SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (313-1855)
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS STATED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A GASOLINE STATION, CONVENIENCE STORE, AND CAR WASH.
- THE STORMWATER QUALITY & QUALITY MANAGEMENT STRUCTURE WILL BE PROVIDED TO THE SITE BY A REGIONAL FACILITY APPROVED UNDER F-98-101.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE CONVENIENCE STORE SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
- ALL DETERGENT USED IN THE CAR WASH FACILITY SHALL BE "PHOSPHATE FREE" AS PER HOWARD COUNTY REGULATIONS.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. A WATER METER SHALL BE LOCATED WITHIN THE CONVENIENCE STORE AND WILL MEET ALL HOWARD COUNTY STANDARDS. ON SITE WATER AND SEWER SHALL BE PRIVATE.
- ALL EXISTING WATER AND SEWER IS SHOWN PER CONTRACT NO. 24-3659-D
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINITIAL RESIDENTIAL PROPERTIES AND COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK @ (410) 313-1880
- ALL REFUSE SHALL BE STORED IN THE PROPOSED MASONRY TRASH ENCLOSURE IN ACCORDANCE WITH THE HOWARD COUNTY RULES & REGULATIONS FOR REFUSE COLLECTION.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT (410) 313-1880.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 DATE 10/20/00
 CHIEF DEVELOPMENT ENGINEERING DIVISION MK
 DATE 11/2/00
 CHIEF DIVISION OF LAND DEVELOPMENT
 DATE 11/6/00
 DIRECTOR
 DATE 11/6/00
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 DATE 11-2-00
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 7125 Rivewood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-4225
 Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

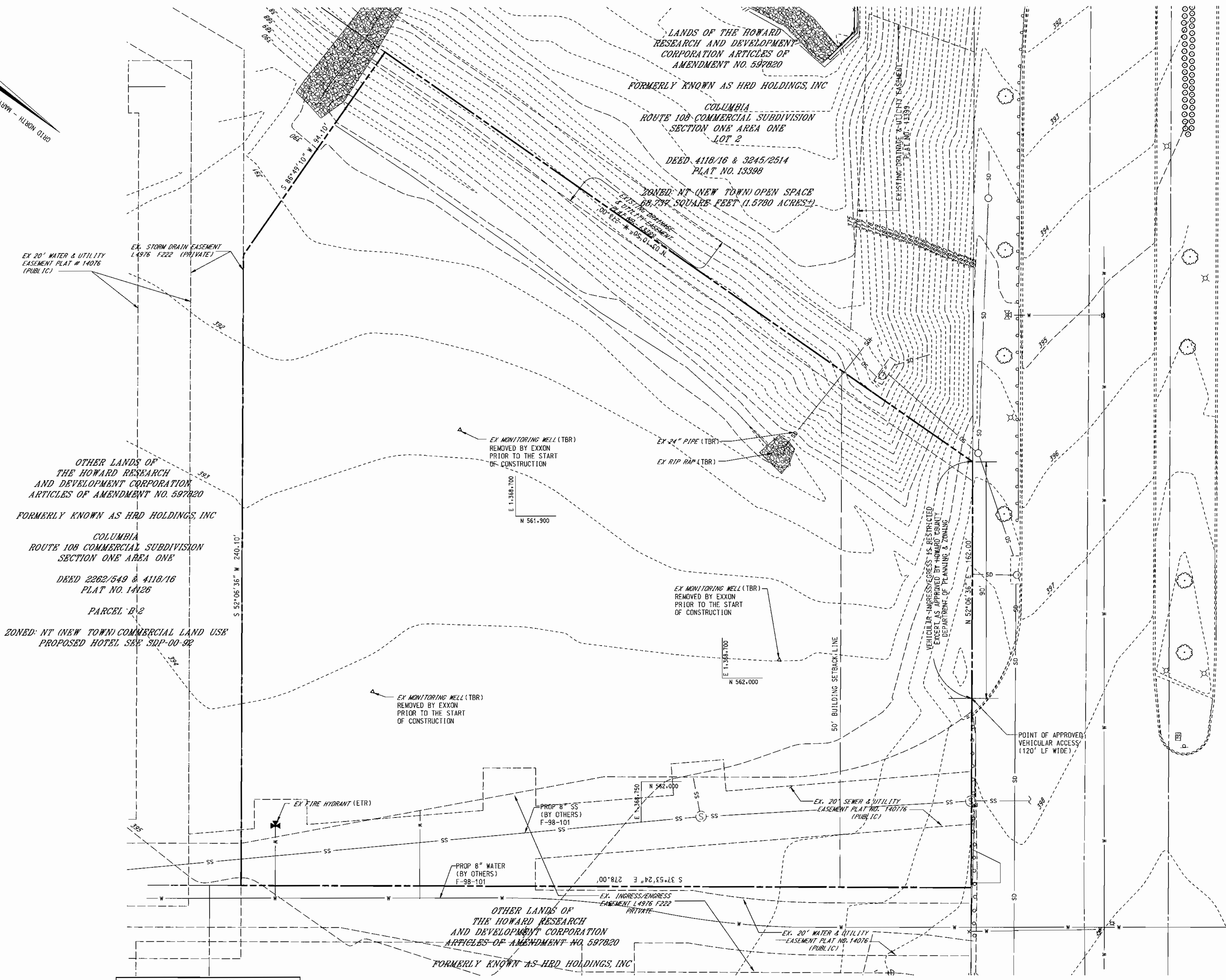
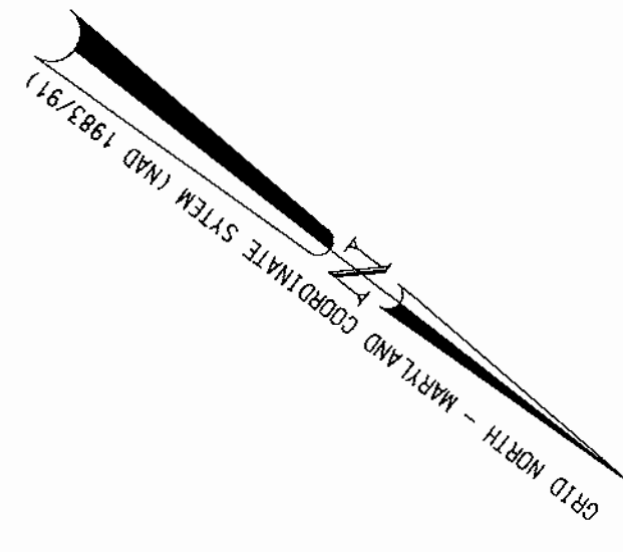
6/20/00
 DATE
 STATE OF MARYLAND
 TIMOTHY F. WHITTIE
 PROFESSIONAL ENGR. NO. 19155

OWNER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DEVELOPER
EXXON MOBIL FUELS MARKETING COMPANY
 3225 GALLOWAY ROAD ROOM 5W113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703) 849-6423

| PERMIT INFORMATION CHART | | | | |
|---|----------------------------|-----------------------|-------------|--------------|
| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NO. | | |
| ROUTE 108 COMMERCIAL | 1/1 | B-1 | | |
| PLAT# OR L/F BLOCK# | ZONING | TAX MAP NO. | ELECT DISTR | CENSUS TRACT |
| 14126 1 | NT-COMM | 37 | 6 | 6066.02 |
| WATER CODE | SEWER CODE | | | |
| E-07 | 2780000 | | | |
| ADDRESS CHART | | | | |
| LOT/PARCEL # | STREET ADDRESS | | | |
| B-1 | 8251 SNOWDEN RIVER PARKWAY | | | |
| TITLE CDD1.DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | | | |
| COVER SHEET | | | | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460.01 | | |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER | | |
| CHECKED BY: GHR | APPROVED: TFW | 1 OF 15 | | |

SDP-00-82



DEMOLITION NOTES

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING SITE CONDITIONS TO HIS SATISFACTION.
2. CONTRACTOR TO MEET WITH EXXON FIELD ENGINEER ON JOB SITE TO IDENTIFY EQUIPMENT, SIGNS AND ITEMS TO BE REMOVED OR RETAINED PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL TRANSPORT EQUIPMENT, AS DESIGNATED BY EXXON FIELD ENGINEER, TO A LOCAL EXXON INVENTORY STORAGE AREA.
4. CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY D.S.H.A., EXXON AND HOWARD COUNTY.
5. ALL DEMOLISHED MATERIAL TO BE REMOVED TO AN APPROVED LOCATION.
6. ALL UTILITIES AND STRUCTURES WITHIN PUBLIC RIGHTS OF WAY SHALL REMAIN.
7. ALL UTILITIES DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED AND / OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
8. THE BOUNDARY AND TOPOGRAPHY SURVEY INFORMATION SHOWN ON THIS PLAN IS FROM A SURVEY PREPARED BY FREDERICK WARD ASSOC., INC., DATED 11/30/99.
9. REFER TO DRAWING SHEET 4 AND 6 OF 15 FOR GENERAL NOTES PERTAINING TO UTILITIES.
10. REFER TO DRAWING SHEET 4 AND 5 OF 15 FOR ALL ROAD IMPROVEMENTS.
11. PRIVATE DRIVE TO BE BUILT BY OTHERS PER FDP 98-101.

OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION ARTICLES OF AMENDMENT NO. 597820 FORMERLY KNOWN AS HRD HOLDINGS, INC

COLUMBIA ROUTE 108 COMMERCIAL SUBDIVISION SECTION ONE AREA ONE DEED 2262/549 & 4118/16 PLAT NO. 14126

PARCEL B-2

ZONED: NT (NEW TOWN) COMMERCIAL LAND USE PROPOSED HOTEL SEE SDP-00-82

COLUMBIA ROUTE 108 COMMERCIAL SUBDIVISION SECTION ONE AREA ONE DEED 2262/549 & 4118/16 PLAT NO. 14126

PARCEL B-6

ZONED: NT (NEW TOWN) COMMERCIAL LAND USE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 12/20/00 DATE

CHIEF-DIVISION OF LAND DEVELOPMENT 4/2/00 DATE

DIRECTOR 11/6/00 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

PLANNING BOARD APPROVAL

APPROVED

PLANNING BOARD OF HOWARD COUNTY

DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.

ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354

ARCHITECTS Phone: 410-290-9550 Fax: 410-720-8226

SURVEYORS Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00 DATE

STATE OF MARYLAND

TIMOTHY F. WHITTE PROFESSIONAL ENGR. NO. 19155

OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION

THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

DEVELOPER **EXXON MOBIL FUELS MARKETING COMPANY**

3225 GALLOWAY ROAD ROOM 5W113 FAIRFAX, VA. 22037

ATTN: MURAD PANDIT PHONE: (703)-849-6423

BEFORE BEGINNING CONSTRUCTION CONTACT

"MISS UTILITY" AT 1-800-257-7777

AT LEAST 48 HOURS PRIOR TO EXCAVATION

SDP-00-82

RELEASED FOR

PRELIMINARY ONLY

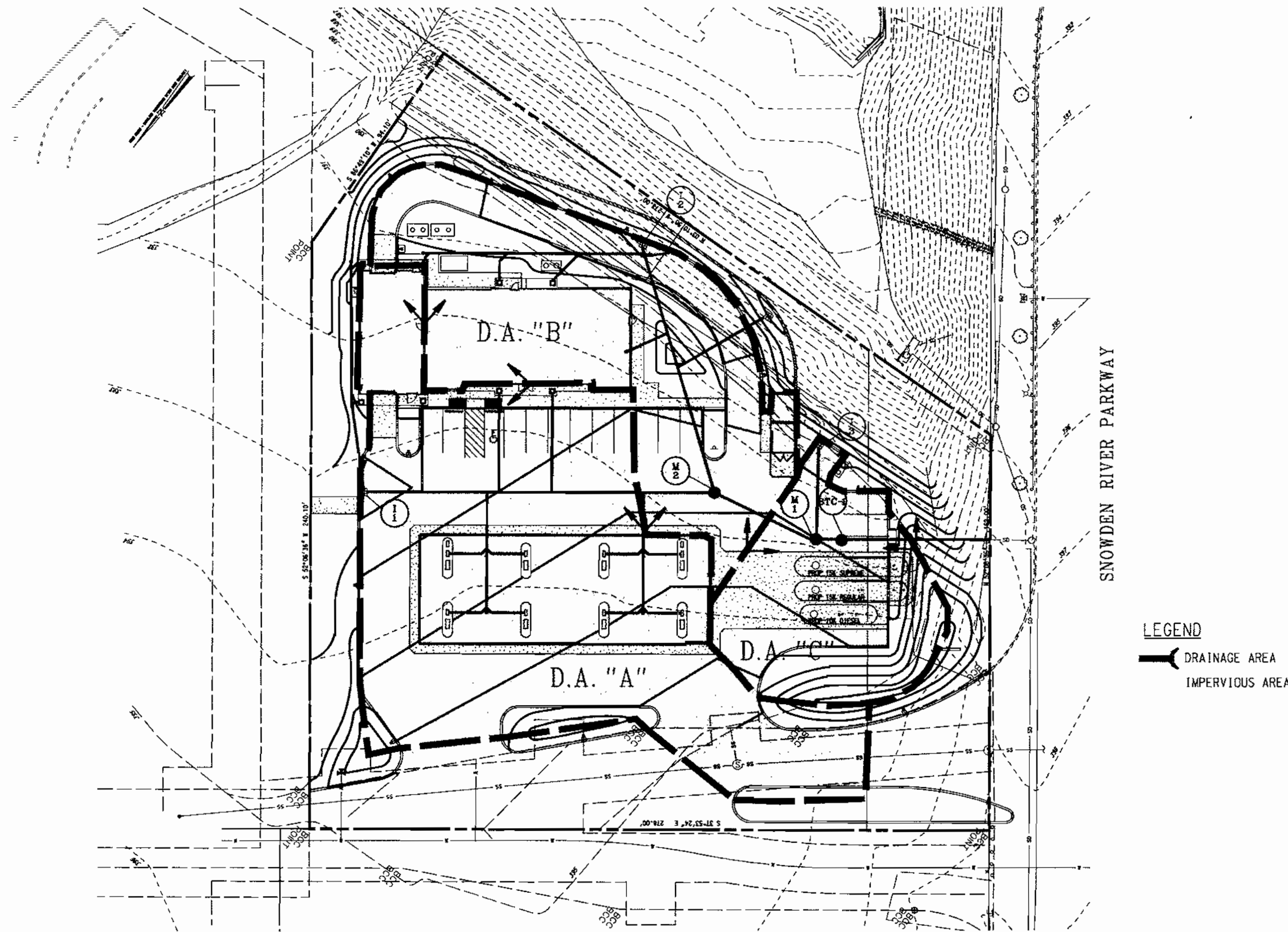
BIDDING

PERMIT

CONSTRUCTION

DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|--|----------------------------|--------------------------------------|
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NO. |
| ROUTE 108 COMMERCIAL | 1/1 | B-1 |
| PLAT# OR L/F BLOCK# | ZONING | TAX MAP NO. ELECT DISTR CENSUS TRACT |
| 14126 1 | NT-COMM | 37 6 6066.02 |
| WATER CODE | SEWER CODE | |
| E-07 | 2780000 | |
| ADDRESS CHART | | |
| LOT/PARCEL # | STREET ADDRESS | |
| B-1 | 8251 SNOWDEN RIVER PARKWAY | |
| TITLE CD02-DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD, 21045 | | |
| EXISTING CONDITIONS AND DEMOLITION PLAN | | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: TFW | 3 OF 15 |



DRAINAGE AREA MAP

SCALE: 1" = 40'

STRUCTURE SCHEDULE

| No. | DESCRIPTION | INV. IN | INV. OUT | TOP ELEV. |
|-------|------------------------------|-------------------|----------------|-----------|
| M-1 | MDSHA STD MANHOLE MD 383.21 | 15" 384.65 | 18" RCP 383.18 | 395.0 |
| M-2 | MDSHA STD MANHOLE MD 383.21 | TWO 12" PVC 385.5 | 15" PVC 385.27 | 394.8 |
| I-1 | MDSHA STD WR INLET MD 374.06 | 4" PVC 389.0 | | 392.5 |
| I-2 | MDSHA STD WR INLET MD 374.06 | | 386.55 | 391.8 |
| I-3 | MDSHA STD WR INLET MD 374.06 | | 389.7 | 393.2 |
| I-4 | MDSHA STD WR INLET MD 381.01 | | 387.07 | 390.0 |
| STC-1 | STORMCEPTOR | 383.08 | 382.98 | 394.8 |

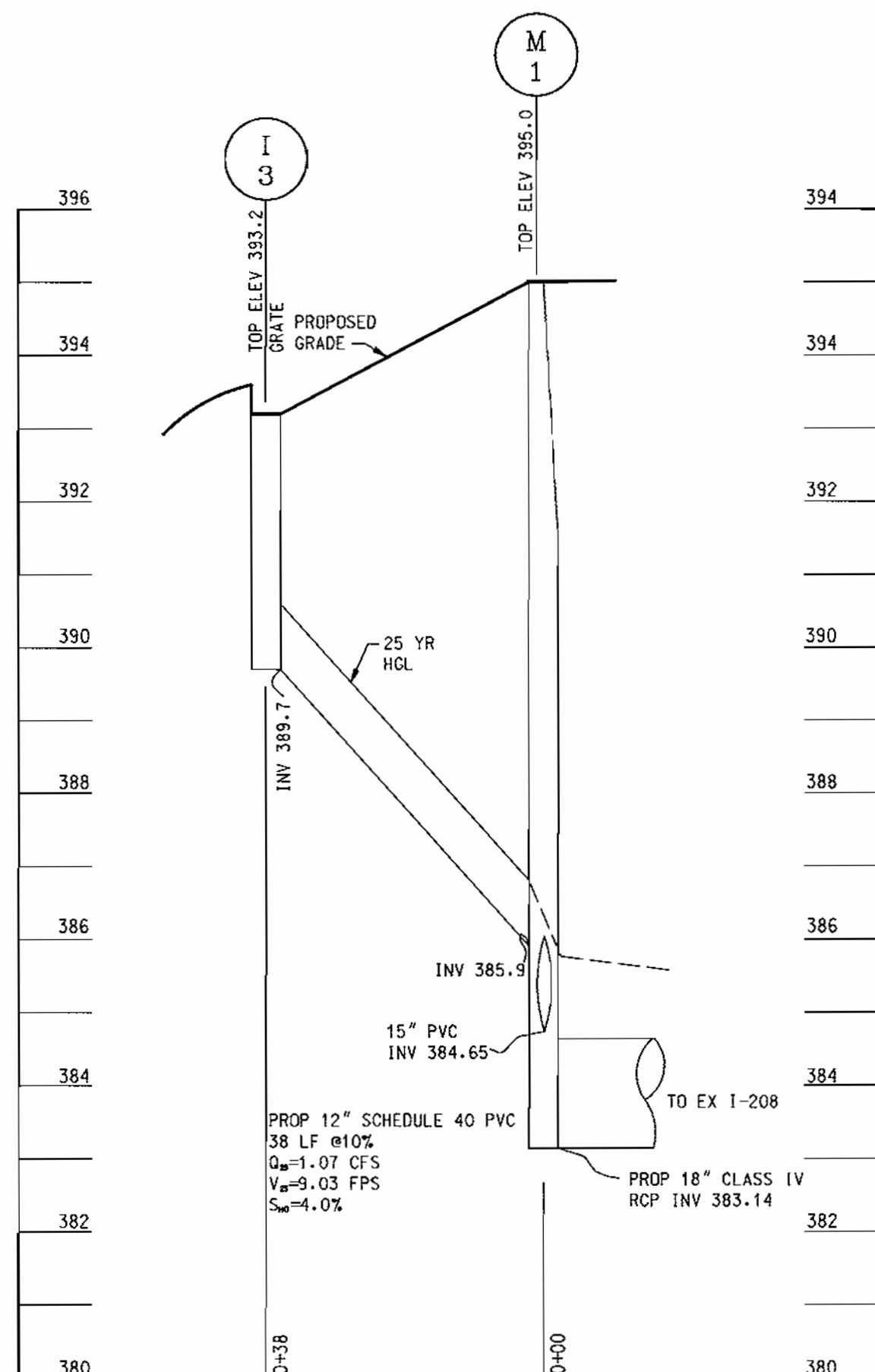
DRAINAGE AREAS

| LETTER | AREA (AC) | RCN 10 YR | RCN 25 YR |
|--------|-----------|-----------|-----------|
| A | 0.52 | 0.81 | 0.91 |
| B | 0.33 | 0.74 | 0.83 |
| C | 0.14 | 0.69 | 0.78 |

PIPE SCHEDULE

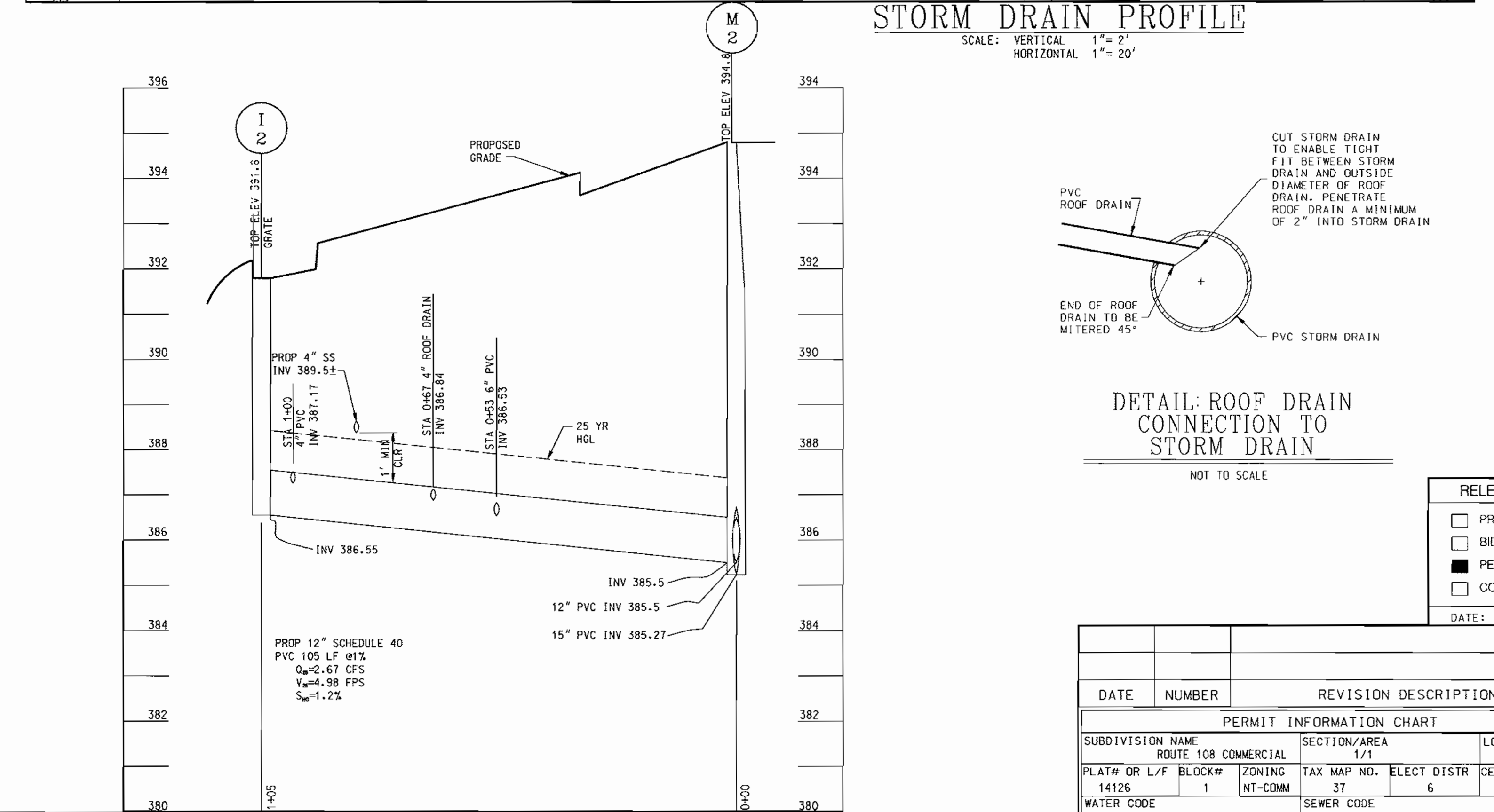
| SIZE | TYPE | QUANTITY |
|------|--------------|----------|
| 12" | SCHD 40 PVC | 285 |
| 15" | SDR 35 PVC | 48 |
| 18" | CLASS IV RCP | 59 |

NOTE: SCHEDULE DOES NOT INCLUDE PIPE REQUIRED FOR ROOF DRAINS



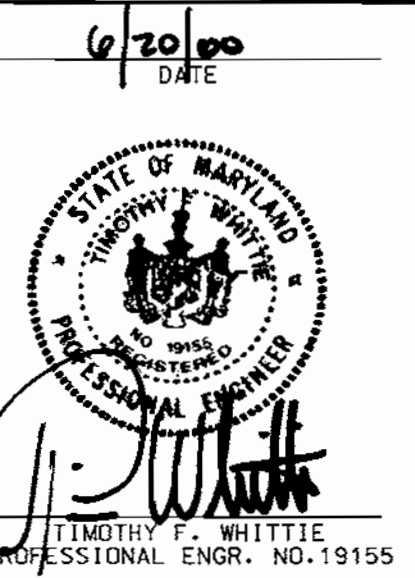
STORM DRAIN PROFILE

SCALE: VERTICAL 1" = 2'
HORIZONTAL 1" = 20'



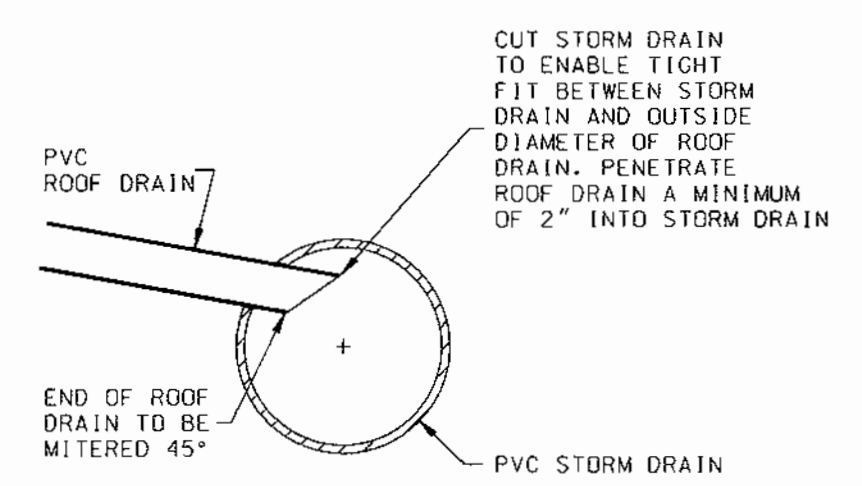
STORM DRAIN PROFILE

SCALE: VERTICAL 1" = 2'
HORIZONTAL 1" = 20'



OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044

DEVELOPER: EXON MOBIL FUELS MARKETING COMPANY
3225 GALLOWAY ROAD, ROOM 5W113, FAIRFAX, VA. 22037
ATTN: MURAD PANDIT, PHONE: (703)-849-6423



DETAIL: ROOF DRAIN CONNECTION TO STORM DRAIN

NOT TO SCALE

RELEASED FOR

| | |
|-------------------------------------|------------------|
| <input type="checkbox"/> | PRELIMINARY ONLY |
| <input type="checkbox"/> | BIDDING |
| <input checked="" type="checkbox"/> | PERMIT |
| <input type="checkbox"/> | CONSTRUCTION |

DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|------|--------|-----------------------|
| | | |

PERMIT INFORMATION CHART

| | | | | | |
|---------------------|----------------------|--------------|---------|----------------|---------|
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA | 1/1 | LOT/PARCEL NO. | B-1 |
| PLAT# OR L/F BLOCK# | 14126 | ZONING | NT-COMM | TAX MAP NO. | 6066.02 |
| WATER CODE | E-07 | SEWER CODE | 2780000 | | |

ADDRESS CHART

| | | | |
|--------------|-----|----------------|----------------------------|
| LOT/PARCEL # | B-1 | STREET ADDRESS | 8251 SNOWDEN RIVER PARKWAY |
|--------------|-----|----------------|----------------------------|

TITLE CD07.DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045

SITE UTILITY DETAILS AND PROFILES

| | | |
|-----------------|-----------------|-----------------------|
| DESIGN BY: GHR | SCALE: 1" = 40' | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: IFW | 7 OF 15 |

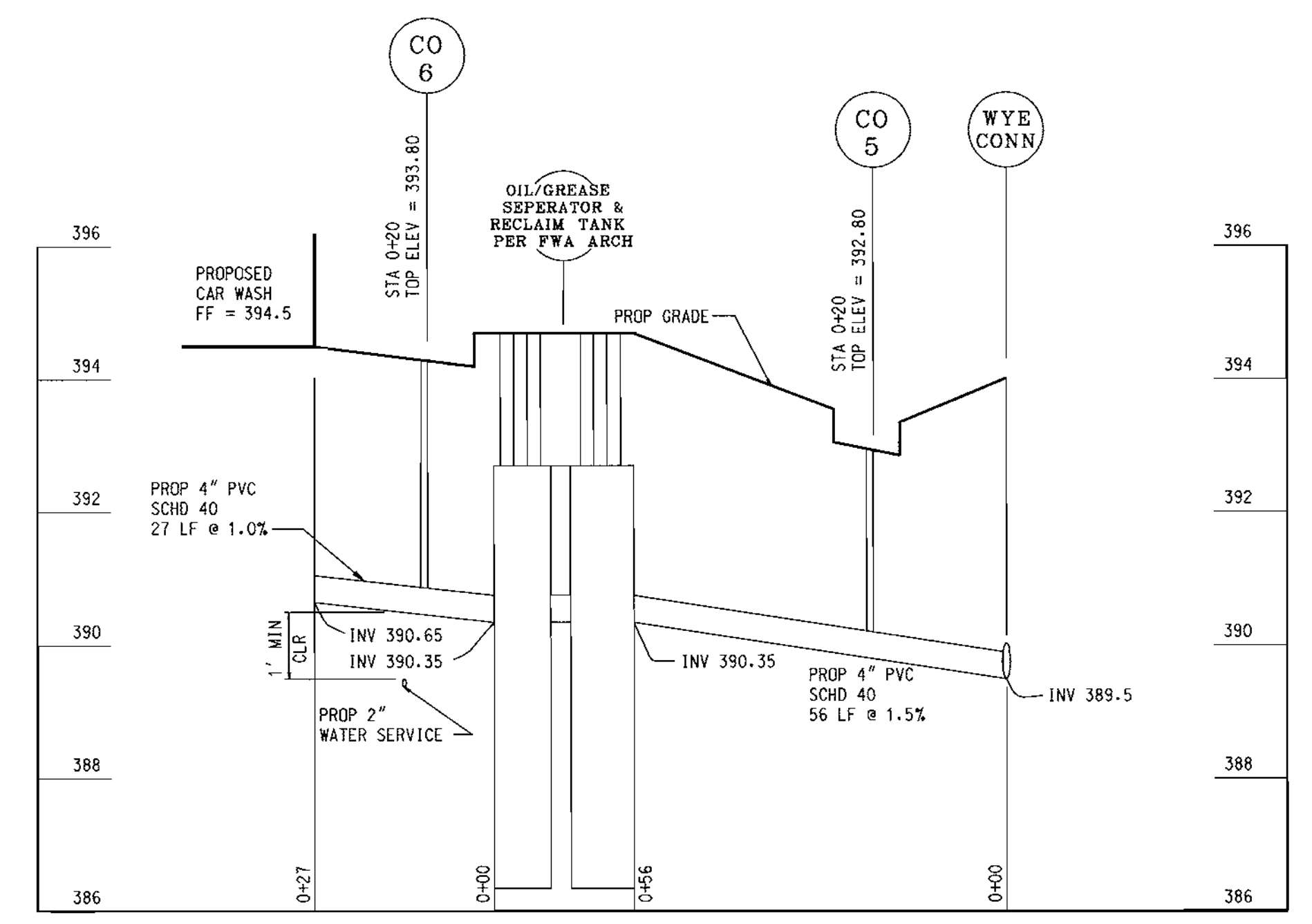
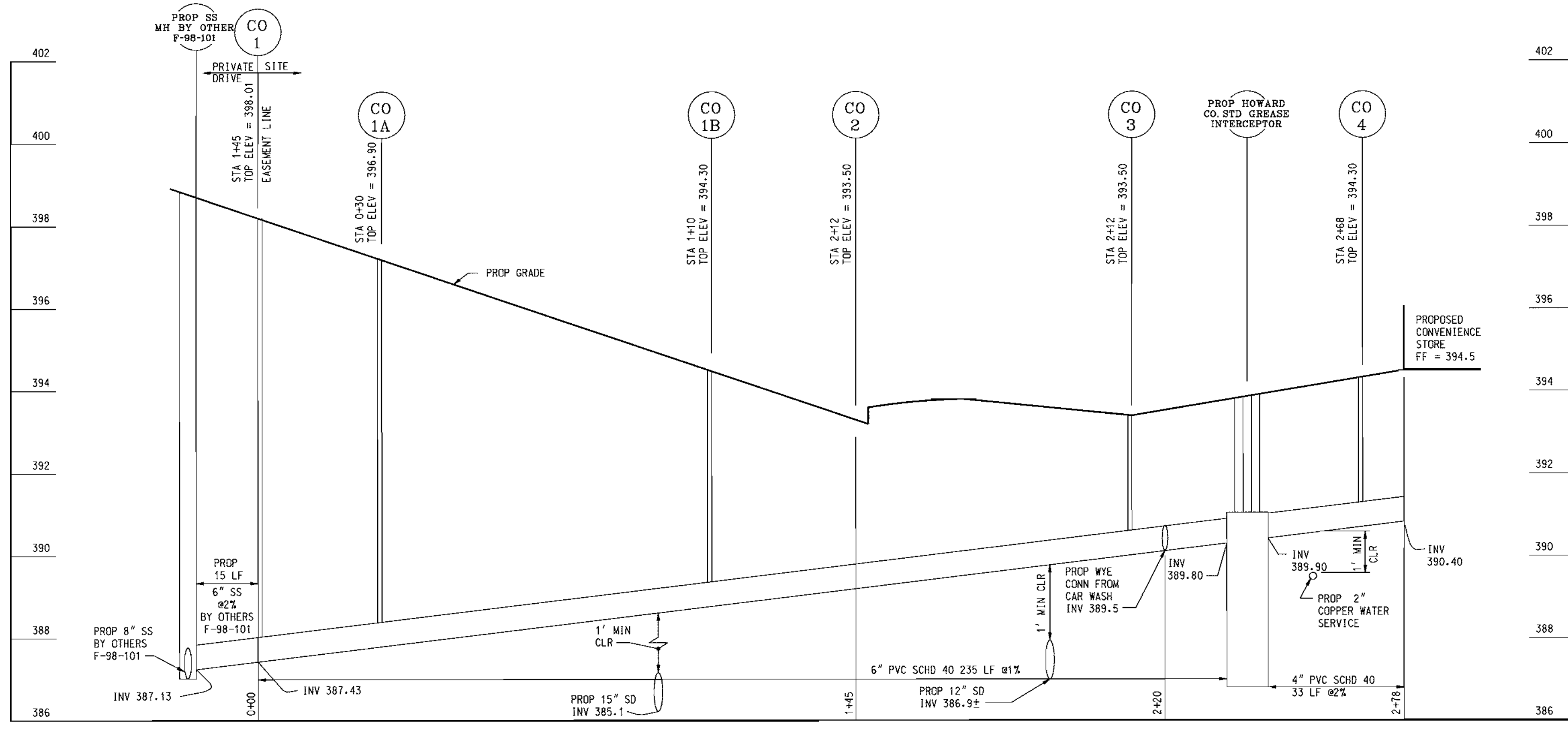
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 10/20/00
 CHIEF-DIVISION OF LAND DEVELOPMENT 11/2/00
 COUNTY HEALTH OFFICER 11/6/00
 DATE 6/14/00

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

PLANNING BOARD APPROVAL

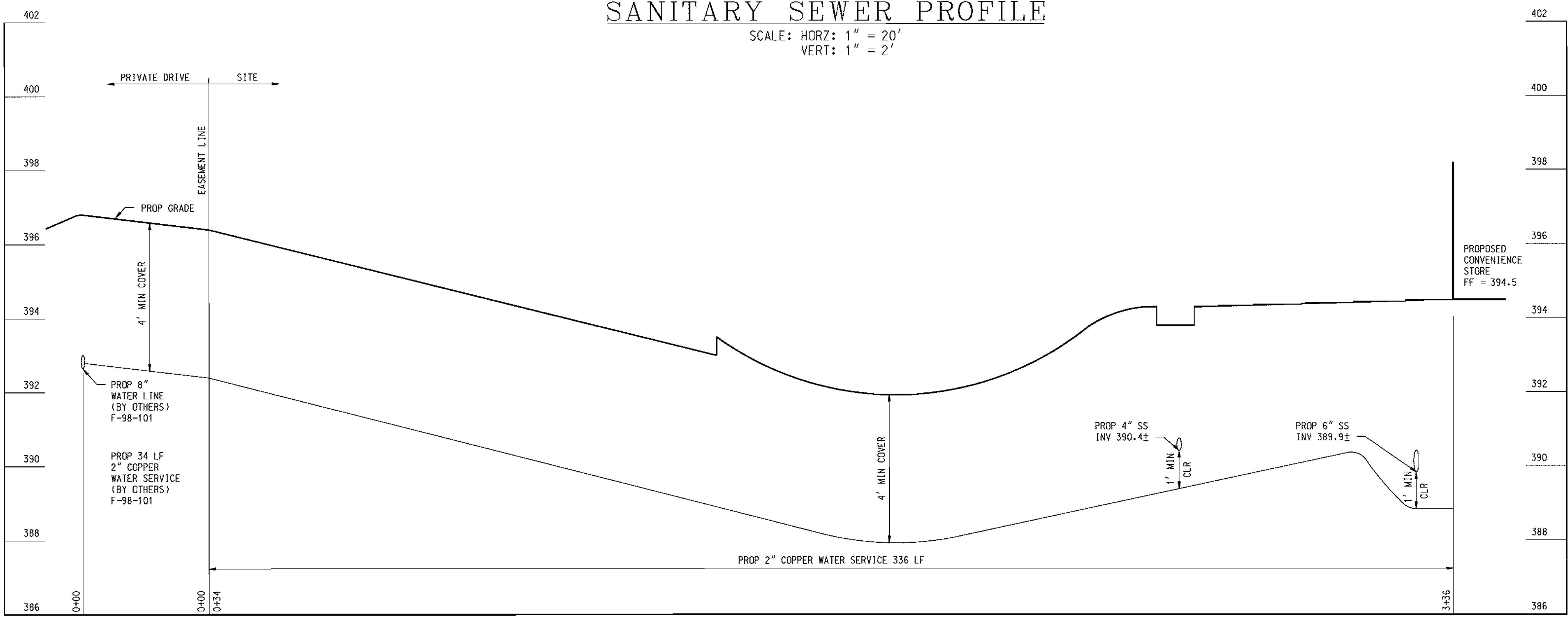
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS: 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-6228
 SURVEYORS: Bel Air, Maryland Manassas, Virginia Warrenton, Virginia



SANITARY SEWER PROFILE
 SCALE: HORZ: 1" = 20'
 VERT: 1" = 2'

SANITARY SEWER PROFILE
 SCALE: HORZ: 1" = 20'
 VERT: 1" = 2'



WATER SERVICE PROFILE
 SCALE: HORZ: 1" = 20'
 VERT: 1" = 2'

SDP-00-82
 RELEASED FOR
 PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION
 DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|---|----------------------|---|
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA 1/1 |
| PLAT# OR L/F | 14126 | TAX MAP NO. 37 |
| BLOCK# | 1 | ELECT DISTRICT 6 |
| ZONING | NT-COMM | CENSUS TRACT 6066-02 |
| WATER CODE | E-07 | SEWER CODE 2780000 |
| ADDRESS CHART | | |
| LOT/PARCEL # | B-1 | STREET ADDRESS 8251 SNOWDEN RIVER PARKWAY |
| TITLE CD08.DGN FOR AN EXION STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | |
| SITE UTILITY PROFILES | | |
| DESIGN BY: GHR | SCALE: 1" = 20' | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER 8 OF 15 |
| CHECKED BY: GHR | APPROVED: TFW | |

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/20/00
 CHIEF DEVELOPMENT ENGINEERING DIVISION MK
 DATE
[Signature] 11/2/00
 CHIEF DIVISION OF LAND DEVELOPMENT
 DATE
[Signature] 11/2/00
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 11/2/00
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS Phone 410-290-9550 Fax 410-720-6229
 SURVEYORS Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00
 DATE
 STATE OF MARYLAND
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGINEER
 NO. 19155

OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 DEVELOPER **EXION** MOBIL FUELS MARKETING COMPANY
 3225 GALLOWES ROAD ROOM 5W113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703)-849-6423

GENERAL NOTES

- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL OPENINGS TO STRUCTURES SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- VARIOUS TYPES OF EQUIPMENT ARE AVAILABLE COMMERCIALY FOR THE CLEANOUT OF SYSTEMS. THE MOST COMMONLY USED EQUIPMENT AND TECHNIQUES USED FOR CLEANING SUBSURFACE SYSTEMS ARE VACUUM PUMP & WATERJET SPRAY. BOTH SYSTEMS ARE GENERALLY MOUNTED ON A SELF-CONTAINED VEHICLE AND CAN EFFECTIVELY REMOVE STONES, LEAVES, LITTER, AND SEDIMENT DEPOSITS FROM SUMPS AND CHAMBERS.

STORMWATER MANAGEMENT AND WATER QUALITY MAINTENANCE NOTES

 - INSPECT THE STORMCEPTOR ON A MONTHLY BASIS AND NOTE SEDIMENT AND OIL ACCUMULATIONS. MORE FREQUENT INSPECTIONS ARE APPROPRIATE WHERE OIL SPILLS OCCUR REGULARLY. STORMCEPTOR CANADA INC. CAN PROVIDE ADVICE ON SAMPLING EQUIPMENT.
 - SEDIMENT SHOULD BE REMOVED ANNUALLY, OR WHENEVER THE ACCUMULATION REACHES 50% OF THE OPERATING DEPTH, FROM BASE TO DRAIN INVERT. IN AREAS OF NEW CONSTRUCTION, OR WHERE VEGETATION HAS NOT YET BEEN ESTABLISHED MORE FREQUENT REMOVAL MAY BE NECESSARY.
 - VACUUM TRUCKS ARE USED TO REMOVE THE SEDIMENT AND OIL FROM THE STORMCEPTOR TREATMENT CHAMBER. OIL LEVELS GREATER THAN 2.5 CM SHOULD BE REMOVED IMMEDIATELY BY A LICENSED WASTE MANAGEMENT FIRM, AND SIGNIFICANT SPILLS MUST BE REPORTED TO THE APPROPRIATE REGULATORY AGENCY.
 - THE PIPES AND STRUCTURAL PARTS SHALL BE CLEANED AND REPAIRED AS NEEDED.
 - ALL MAINTENANCE SHALL BE PERFORMED BY THE OWNER OR BY THE OWNER'S REPRESENTATIVE AT THE OWNER'S EXPENSE.
 - MINIMIZE SURFACE EROSION FROM PREVIOUS SURFACES AT ALL TIMES; MAINTAIN GRASS, SOD, AND/OR MULCH COVERAGE UPON LANDSCAPING.
 - REMOVE DEBRIS ON TOP OF INLET GRATES AFTER EVERY RAINFALL, AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLETS AND STRUCTURES.
 - THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
 - ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
 - THE SOLID MATERIAL SHALL BE LANDFILLED IN AN APPROVED SANITARY LANDFILL.

REQUIRED PROCEDURES AND INSPECTIONS FOR INGROUND WQ FACILITY

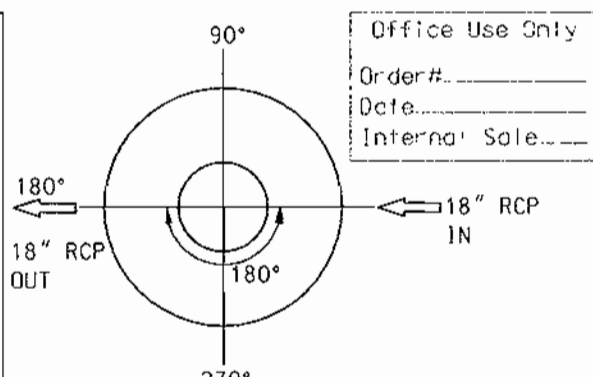
THE FOLLOWING INSPECTIONS ARE REQUIRED DURING CONSTRUCTION; ADDITIONAL INSPECTIONS MAY BE REQUIRED AND NOTED BY THE INSPECTOR.

- PRECONSTRUCTION MEETING: AN OPPORTUNITY TO REVIEW SITE PLANS, DISCUSS THE PURPOSE OF THE FACILITY AND TO ANSWER QUESTIONS REGARDING CONSTRUCTION AND/OR INSPECTION PROCEDURES.
- CONSTRUCTION: INSPECTION(S) WILL BE MADE DURING THE CONSTRUCTION OF THE FACILITY TO ENSURE ACCORDANCE WITH THE PLANS. SPECIFIC INSPECTION REQUIREMENTS WILL BE DETERMINED AT THE PRECONSTRUCTION MEETING.
- FINAL INSPECTION: A FINAL CHECK WILL BE MADE TO CHECK DESIGN DIMENSIONS. IF CONSTRUCTION IS SATISFACTORY.

Stormceptor Order Request Form

Contractor Information

Name _____
 Address _____
 City _____
 State _____
 Zip Code _____
 Contact _____
 Phone _____
 Fax _____



Owner Information

Name: EXXON MOBIL CORPORATION
 Phone: (703) 849-6423
 Fax: (703) 849-5074

Please draw orientation of inlet and outlet pipes on diagram along with pipe inside diameter (in.) and invert elevation (ft.). Clearly mark inlet pipes with an I and outlet pipes with an O and provide the inlet/outlet pipe angle in degrees.

| Stormceptor® Model | Insert Size | Manhole |
|--------------------|-------------|---------------------------------|
| 900 | 22" | STC-1800 |
| 1200 | 32" | Top Elevation (ft.) 394.80 |
| 1800 | 44" | Inlet Pipe Invert (ft.) 383.08 |
| 2400 | 44" | Outlet Pipe Invert (ft.) 382.98 |
| | Custom | Pipe Type: RCP, CLASS IV |
| | | Pipe Inside Diameter (in.) 18" |
| | | Pipe Outside Diameter (in.) 20" |

Project Name: EXXON - SNOWDEN RIVER
 Approximate time frame until required delivery (weeks) _____
 Delivery Address: Street 8251 SNOWDEN RIVER PARKWAY
 City COLUMBIA State MARYLAND Zip Code 21045
 Designer Company: FREDERICK WARD ASSOCIATES
 Designer Contact: GREG REED Phone: (410) 720-6900 Fax: (410) 720-6226

Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426
 Attn: Dave Brinsler/Bryant Lowery (Phone: 1-800-999-2278)
 For credit information/applications contact Carole Broadus at (804) 798-6068
 For Technical Assistance Please Call Stormceptor Corporation
 at (301) 762-8361 or toll free at 1-800-762-4703

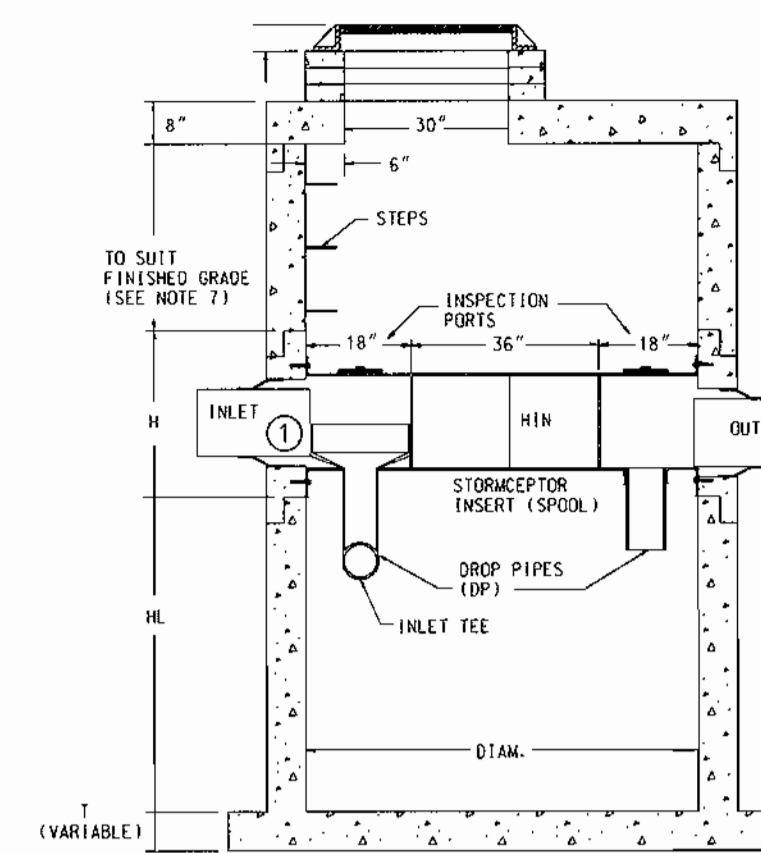
CONTRACTOR INSTALLATION INSTRUCTIONS:
 PRECAST CONCRETE STORMCEPTOR

- STAKE-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED (95% STANDARD PROCTOR DENSITY OR LOCAL AND STATE REQUIREMENTS, AS DIRECTED BY THE INSPECTOR) AGGREGATE SUBBASE AT BOTTOM OF EXCAVATION. INSTALL MULE OR SHORING, AS NEEDED.
- CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM BASE OF THE STORAGE CHAMBER (BOTTOM OF UNIT'S SLAB) TO THE INVERT OF STORMCEPTOR BYPASS CHAMBER INLET ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN INVERT ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED.
- SECURE INSPECTOR APPROVAL OF SUBGRADE AND SUBBASE.
- INSTALL STORAGE CHAMBER. INSTALL SCREW INSERTS INTO BASE OF STORAGE CHAMBER. ATTACH CABLES OR CHAINS TO ALL 3 LIFTING LUGS ON THE BASE SLAB. USING LARGE EQUIPMENT OR CRANE LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAMBER IN THE EXCAVATED HOLE ON THE SUBBASE. MAKE SURE THAT THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT REQUIRED. INSTALL RUBBER GASKET ON BASE UNIT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT). IF NOT PRELUBRICATED, INSTALL ADDITIONAL STORAGE CHAMBER SECTIONS, AS REQUIRED (PROCEDURE IS SAME AS STEP 8.).
- INSTALL REDUCING SLAB. (STORMCEPTOR MODELS STC-2400, STC-3600, STC-4800, STC-6000 AND STC-7200) CHECK THAT SECTION IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBRICATING GREASE (PROVIDED IN SHIPMENT).
- INSTALL BYPASS CHAMBER OF STORMCEPTOR WITH FACTORY INSTALLED STORMCEPTOR INSERT. LIFT BYPASS SECTION AND INSTALL, WHILE CHECKING ALIGNMENT AND GRADE OF INLET AND OUTLET DRAINAGE PIPES. CHECK TO MAKE SURE THE BYPASS CHAMBER IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. THE BYPASS CHAMBER MUST BE ORIENTED SUCH THAT INLET PIPE DISCHARGES INTO THE V-SHAPED FIBERGLASS WEIRS (INSIDE INSERT). INSTALL RUBBER GASKET ON TOP OF BYPASS SECTION AND COAT WITH LUBRICATING GREASE, IF NOT PRELUBRICATED.
- INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STC PIPE INSTALLATION PROCEDURE.
- INSTALL RISER SECTION. LIFT RISER SECTION AND INSTALL, WHILE CHECKING THAT SECTION IS SET FLUSH AND IS AT PROPER ELEVATION AND THAT UNIT IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS REQUIRED IF STEPS ARE INCLUDED. ALIGN STEPS ABOVE INLET INSPECTION PORT. NOTE: FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOT BE REQUIRED.
- INSTALL TOP CAP WITH OPENING FOR STORMCEPTOR COVER. IF OPENING IS OFFSET (NOT CENTERED) THE TOP CAP OPENING SHOULD BE ORIENTED ABOVE THE STORMCEPTOR INLET INSPECTION PORT (PLUG).
- BACKFILL STORMCEPTOR WITH APPROVED BACKFILL MATERIAL (NO ORGANIC OR TOPSOIL IS TO BE USED FOR BACKFILL). BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL SHOULD BE COMPACTED TO 95% STANDARD PROCTOR DENSITY, OR LOCAL AND STATE REQUIREMENTS, AS DIRECTED BY THE INSPECTOR.
- INSTALL AND SET GRADE ADJUSTING RINGS, AS NEEDED.
- INSTALL AND SET STORMCEPTOR FRAME AND COVER.
- INSTALL INLET AND OUTLET STORM DRAIN PIPES. CONNECT INLET AND OUTLET STORM DRAIN PIPES WITH FLEXIBLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINK GROUT WHEN NO FLEXIBLE BOOTS ARE PROVIDED. THE INVERT OF THE INLET AND OUTLET PIPE IS TO MATCH WITH THE INVERT OF THE STORMCEPTOR INSERT. FLEXIBLE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND/OR THE INSIDE OF THE BOOT IF THE PIPE OUTSIDE DIAMETER IS THE SAME AS THE INSIDE DIAMETER OF THE BOOT. POSITION THE PIPE CLAMP IN THE GROOVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP SCREW TO 60 INCH POUNDS. IF THE PIPE IS MUCH SMALLER THAN THE BOOT, LIFT THE BOOT SUCH THAT IT CONTACTS THE BOTTOM OF THE PIPE WHILE TIGHTENING THE CLAMP TO ENSURE EVEN CONTRACTION OF THE RUBBER. MOVE THE PIPE HORIZONTALLY AND/OR VERTICALLY TO BRING IT TO GRADE.
- THE STORMCEPTOR SHOULD BE PUMPED OUT WHEN THE SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED).
- FINAL INSPECTION.

| MODEL | MAX. TREATED FLOW RATE (gpm)** | SEDIMENT CAPACITY (Ft³) | OIL CAPACITY (US gal) | TOTAL CAPACITY (US gal) |
|----------|--------------------------------|-------------------------|-----------------------|-------------------------|
| STC 900 | 285 | 70 | 280 | 910 |
| STC 1200 | 285 | 110 | 280 | 1230 |
| STC 1800 | 285 | 195 | 280 | 1860 |
| STC 2400 | 475 | 210 | 560 | 2405 |
| STC 3600 | 475 | 390 | 560 | 3720 |
| STC 4800 | 800 | 515 | 675 | 5030 |
| STC 6000 | 800 | 675 | 675 | 6205 |
| STC 7200 | 1110 | 800 | 680 | 7510 |

| MODEL | DIAM (ft) | DROP PIPE DIAM. (in) | HL (in) | T** (in) | W** (in) |
|----------|-----------|----------------------|---------|----------|----------|
| STC 900 | 6 | 6 | 42 | 8 | 8 |
| STC 1200 | 6 | 6 | 60 | 8 | 8 |
| STC 1800 | 6 | 6 | 96 | 8 | 8 |
| STC 2400 | 8 | 8 | 76 | 8 | 0 |
| STC 3600 | 8 | 8 | 118 | 8 | 0 |
| STC 4800 | 10 | 10 | 106 | 12 | 0 |
| STC 6000 | 10 | 10 | 130 | 12 | 0 |
| STC 7200 | 12 | 12 | 114 | 14 | 0 |

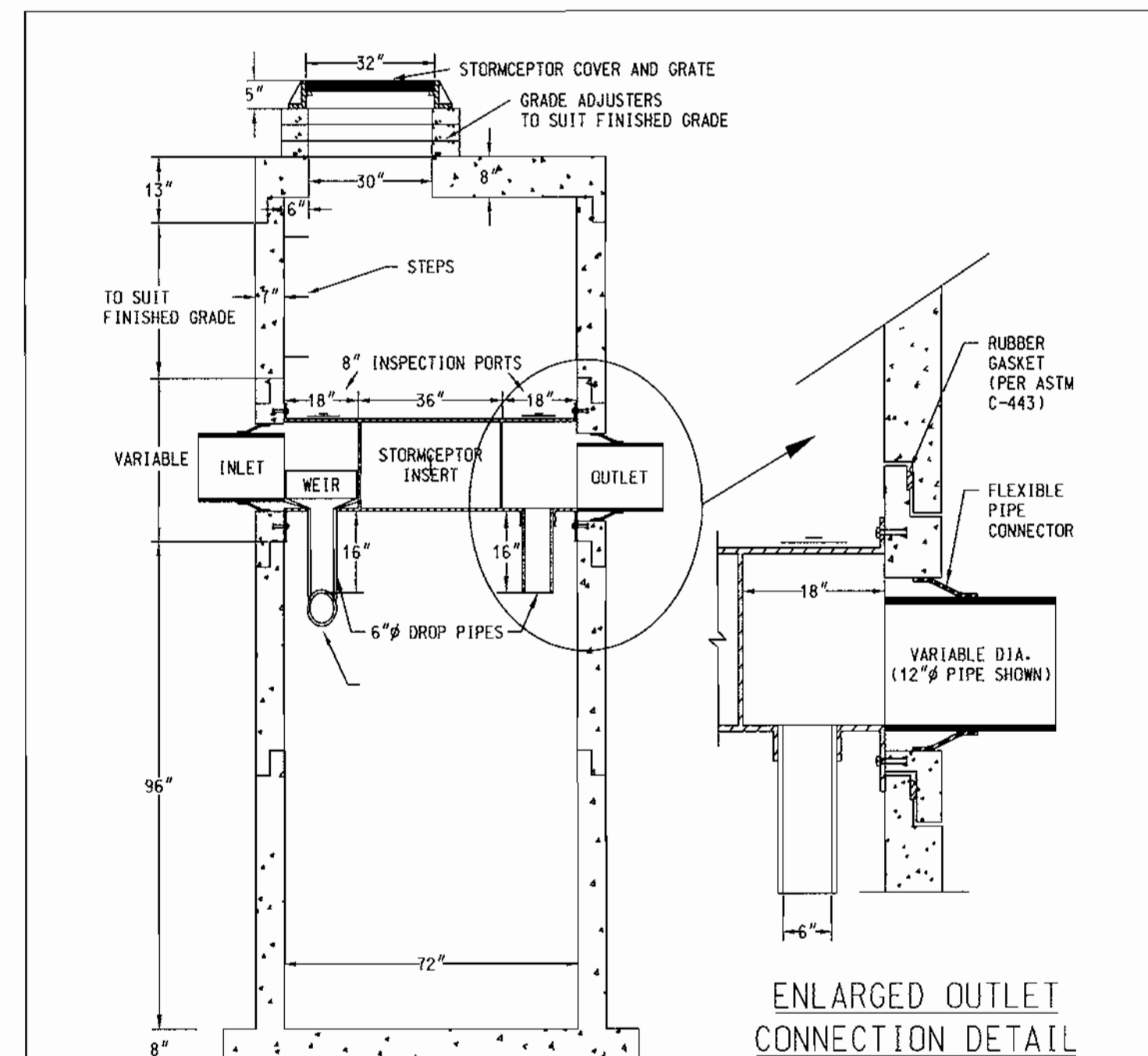
| PIPE DIAMETER D (in) | PIPE MATERIAL | HIN (in) | H (in) | L (in) |
|----------------------|---------------|----------|--------|--------|
| 10 | PVC | 22 | 36 | 8 |
| 10 | CONC / PE RIB | 22 | 36 | 7 |
| 12 | PVC / PE RIB | 22 | 36 | 9 |
| 12 | CONCRETE | 22 | 42 | 11 |
| 15 | PVC / PE RIB | 22 | 42 | 9.5 |
| 15 | CONCRETE | 22 | 48 | 11.5 |
| 18 | PVC / PE RIB | 22 | 48 | 10 |
| 18 | CONCRETE | 32 | 48 | 11 |
| 21 | PVC / PE RIB | 32 | 48 | 9.5 |
| 21 | CONCRETE | 32 | 54 | 11.5 |
| 24 | PVC | 32 | 48 | 9 |
| 24 | PE RIBBED | 32 | 54 | 10 |
| 24 | CONCRETE | 32 | 54 | 11 |
| 27 | PVC | 32 | 54 | 8.5 |
| 27 | CONCRETE | 44 | 60 | 11.5 |
| 30 | CONCRETE | 44 | 60 | 12 |
| 33 | CONCRETE | 44 | 60 | 12.5 |
| 36 | CONCRETE | 44 | 60 | 13 |



NOTE: VARIABLE BASE SLAB WIDTH DEPENDENT ON BASE SLAB THICKNESS
 THE PRECAST CONCRETE STORMCEPTOR (STC)
 SCALE: NOT TO SCALE

- SEE STORM DRAIN PROFILES ON SHEET 6 FOR INLET INVERT.
- SEE NOTES 8 AND 9 IN CONTRACTOR INSTALLATION INSTRUCTIONS, THIS SHEET.

- NOTES:
- THE STORMCEPTOR IS PROTECTED BY U.S. PATENT NO. 4,985,148
 - CAST IRON FRAME & COVER TO BE APPROVED BY STORMCEPTOR CORPORATION. STORMCEPTOR TO BE EMBOSSED ON COVER.
 - BEDDING, BACKFILL AND GENERAL INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND A PROFESSIONAL ENGINEER BASED ON SITE SPECIFIC SOILS CONDITIONS, SUBJECT TO THE APPROVAL OF THE REGULATORY AGENCIES.
 - SIZING OF THE STORMCEPTOR SHALL BE IN ACCORDANCE WITH THE GUIDELINES PROVIDED BY STORMCEPTOR CORPORATION. SUBJECT TO THE APPROVAL OF THE REGULATORY AGENCIES.
 - THE STORMCEPTOR SHOULD BE MAINTAINED ANNUALLY AND/OR IMMEDIATELY FOLLOWING ANY KNOWN SPILLS.
 - THE STORMCEPTOR CONFORMS TO ASTM C 478 DESIGN SPECIFICATIONS / STANDARDS.
 - THE 12" DIAMETER SECTION SHOULD EXTEND A MIN. OF 5' ABOVE THE INSERT OR TO THE SURFACE FOR ACCESS TO THE INSPECTION PORTS.
 - A MINIMUM OF 1 STEP IS TO BE USED IN THE ACCESS WAY.
 - COVER TO BE OFFSET 6" FROM ACCESS WALL ADJACENT TO INLET INSPECTION PORT.
 - NON-SMOOTH WALL O.D. PIPE TO BE GROUDED IN PLACE
 - MAXIMUM OF 1" FALL FROM INLET TO OUTLET.
 - FURTHER TECHNICAL INFORMATION IS AVAILABLE FROM STORMCEPTOR CORPORATION 1(800) 762-4703



- NOTE:
- NON-SMOOTH OUTSIDE WALL PIPE TO BE GROUDED IN PLACE (NO KOR-N-SEAL BOOTS)
 - RISER SECTION ABOVE THE INSERT TO BE 72" FOR A MINIMUM OF 60" OR TO THE GRADE (WHICHEVER IS THE LESSER)
 - COVER TO BE LOCATED ADJACENT TO INLET INSPECTION PORT

DESIGN SPECIFICATIONS
 1. ASTM C 478
 2. BASE WEIGHT = 6.35 TONS

| REV. | D.B. | S.B. | DATE | SCALE | UNITS |
|----------|------|------|------|-------|-------|
| 08/16/95 | G.B. | U.S. | | NTS | U.S. |

STC 1800 PRECAST CONCRETE STORMCEPTOR
 1800 US GALLON CAPACITY

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DEVELOPER: EXXON MOBIL FUELS MARKETING COMPANY
 3225 GALLOWAY ROAD ROOM SW113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703)-849-6423

| DATE | NUMBER | REVISION DESCRIPTIONS |
|------|--------|-----------------------|
| | | |

PERMIT INFORMATION CHART

| | | | | | |
|------------------|----------------------|--------------|---------|----------------|---------|
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA | 1/1 | LOT/PARCEL NO. | B-1 |
| PLAT# OR L/F# | 14126 | ZONING | NT-COMM | TAX MAP NO. | 37 |
| WATER CODE | E-07 | ELECT DISTR | 6 | CENSUS TRACT | 6066-02 |
| | | SEWER CODE | 2780000 | | |

ADDRESS CHART

| | |
|--------------|----------------------------|
| LOT/PARCEL # | 8251 SNOWDEN RIVER PARKWAY |
| B-1 | |

TITLE CD09-DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21046

STORMCEPTOR NOTES & DETAILS

| | | |
|-----------------|---------------|-----------------------|
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: TFW | 9 OF 15 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK
 DATE: 6/14/00

CHIEF-DIVISION OF LAND DEVELOPMENT
 DATE: 6/14/00

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER
 DATE: 11-2-00

PLANNING BOARD APPROVAL

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-6226
 Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00 DATE

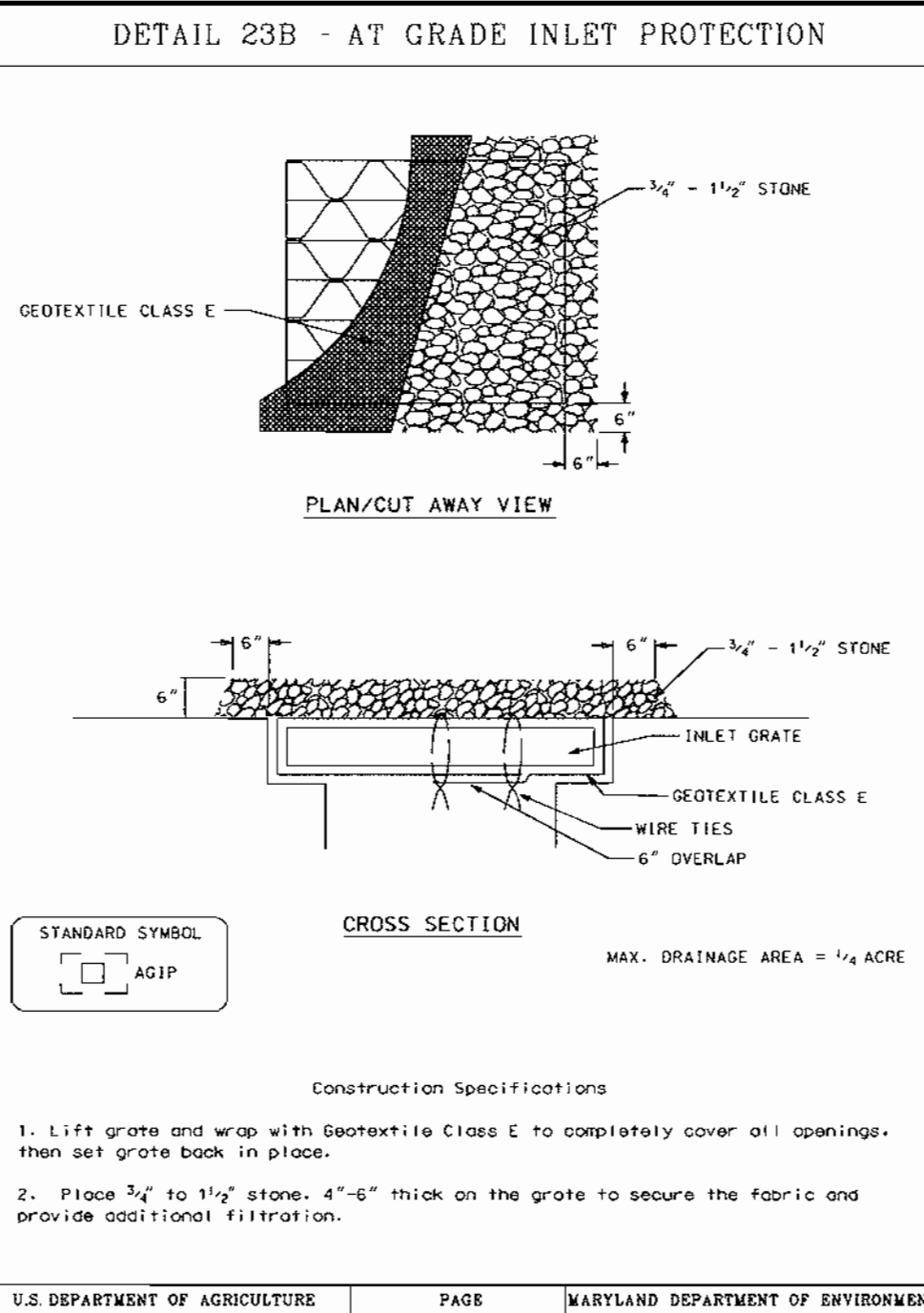
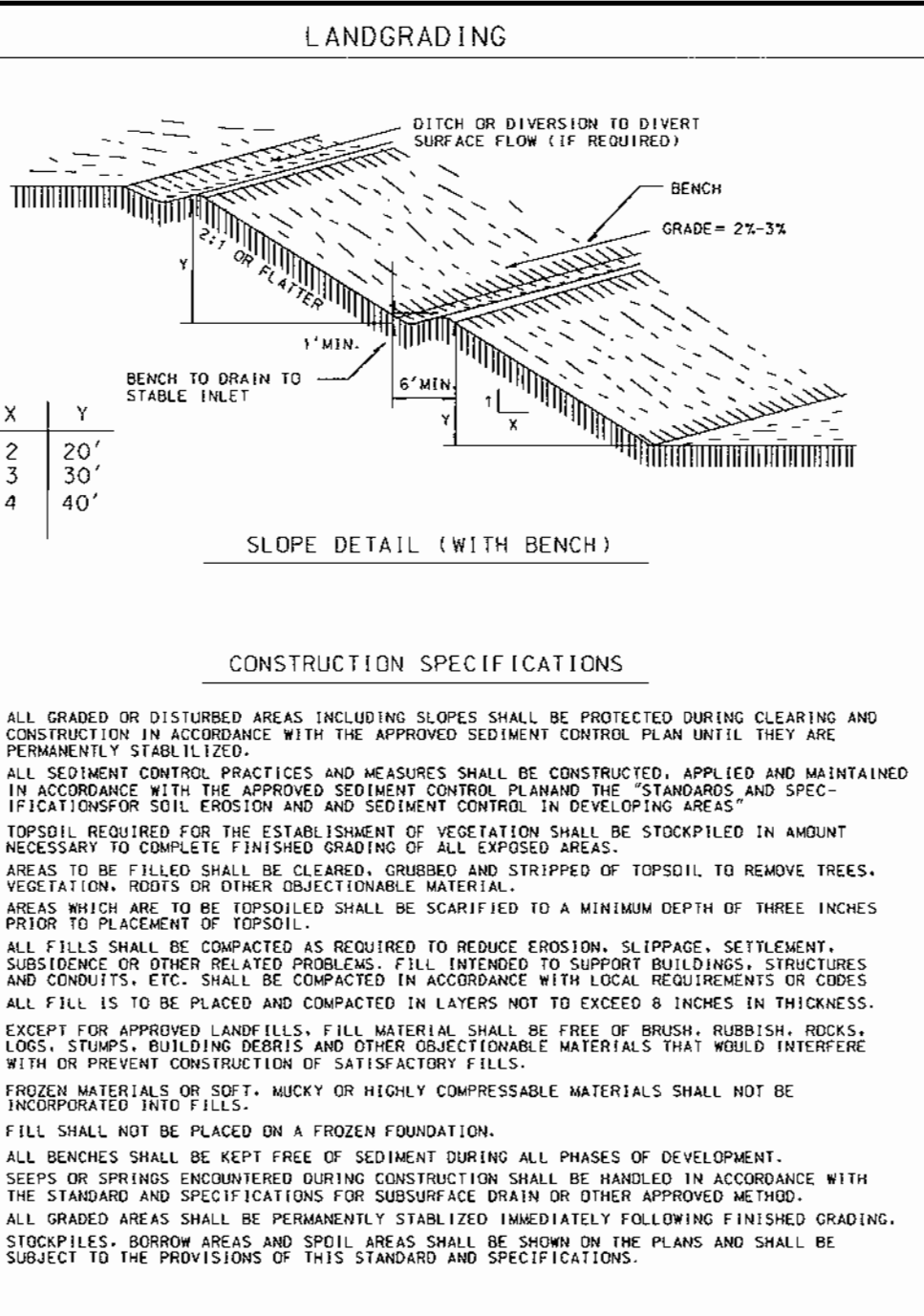
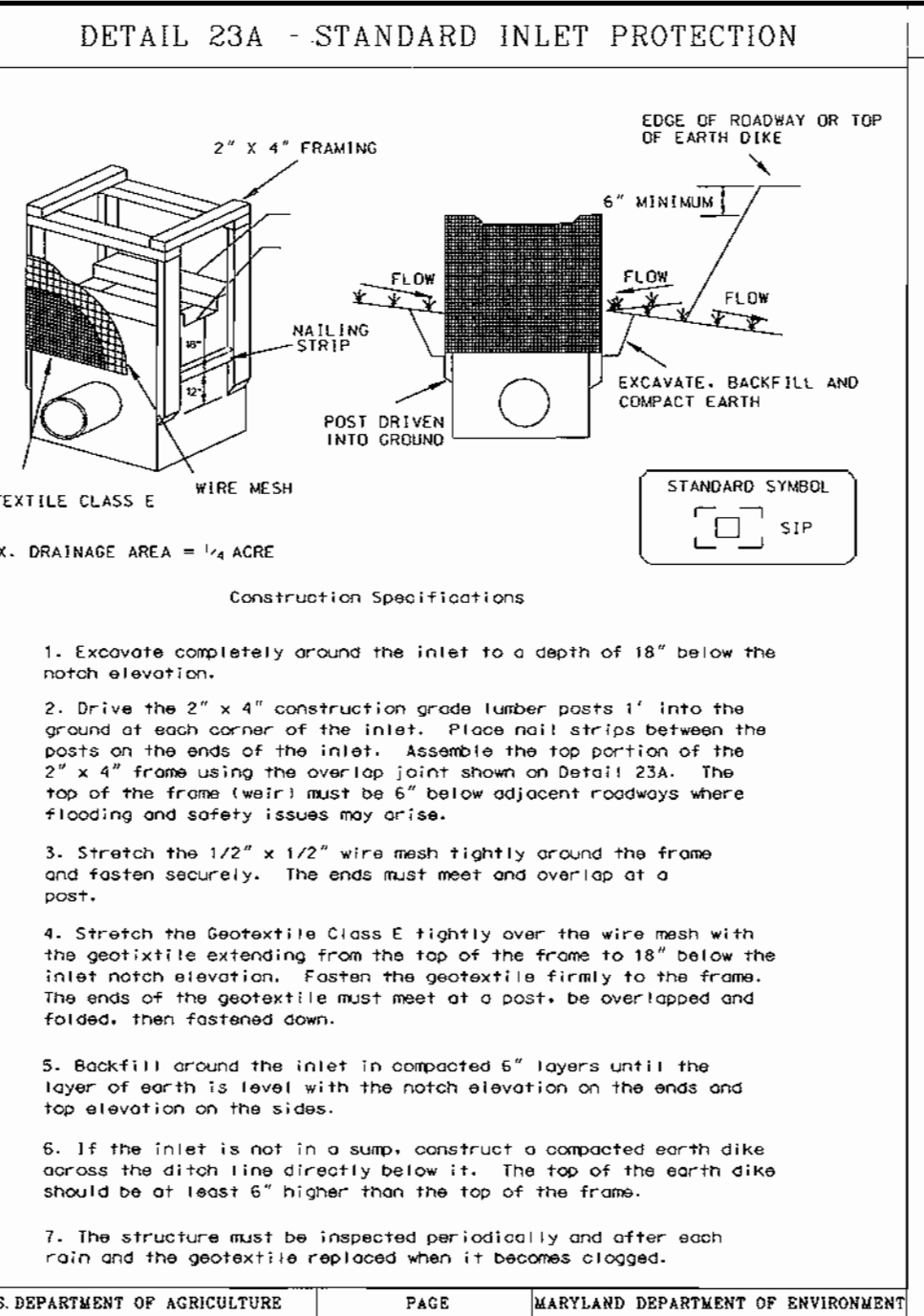
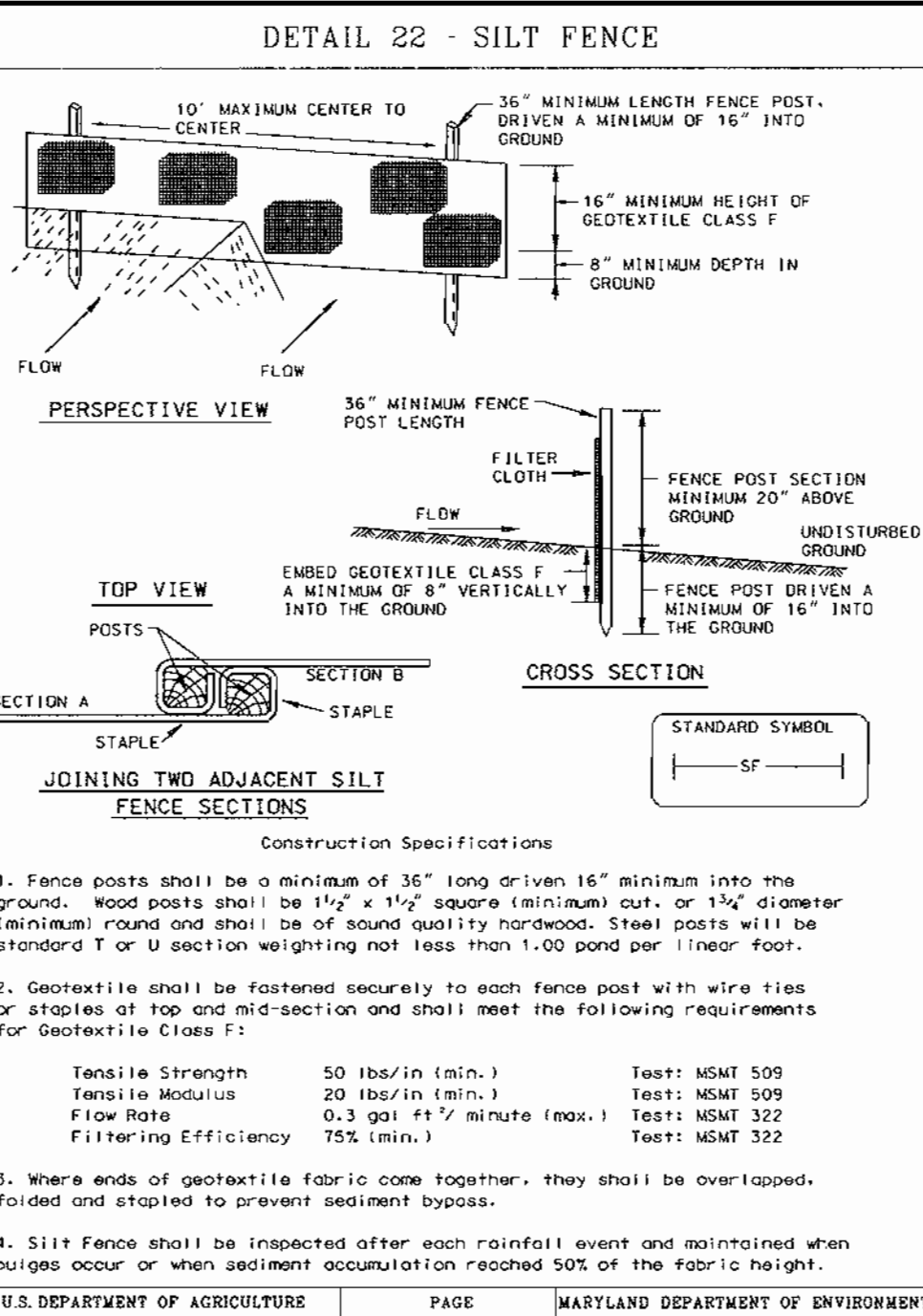
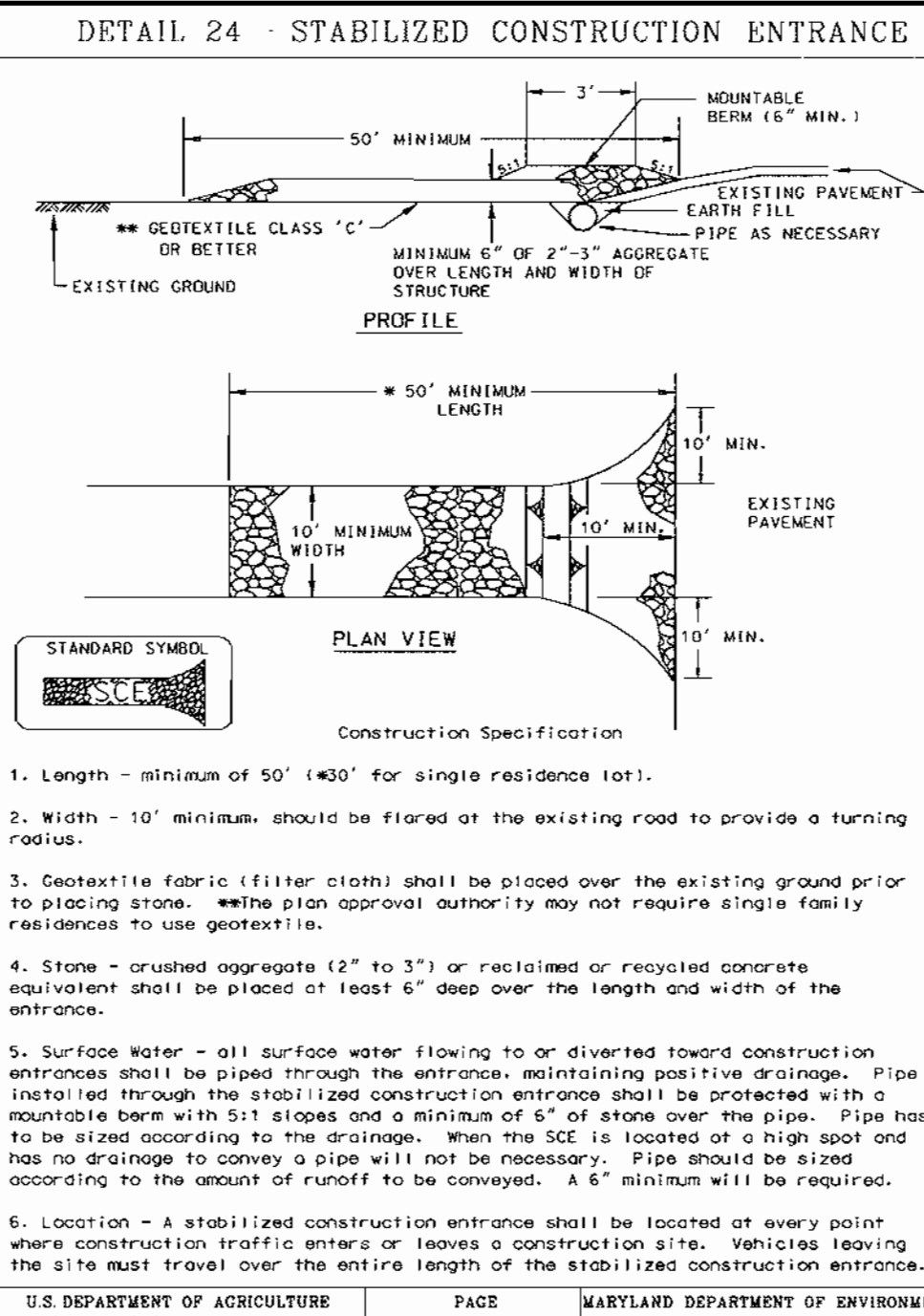
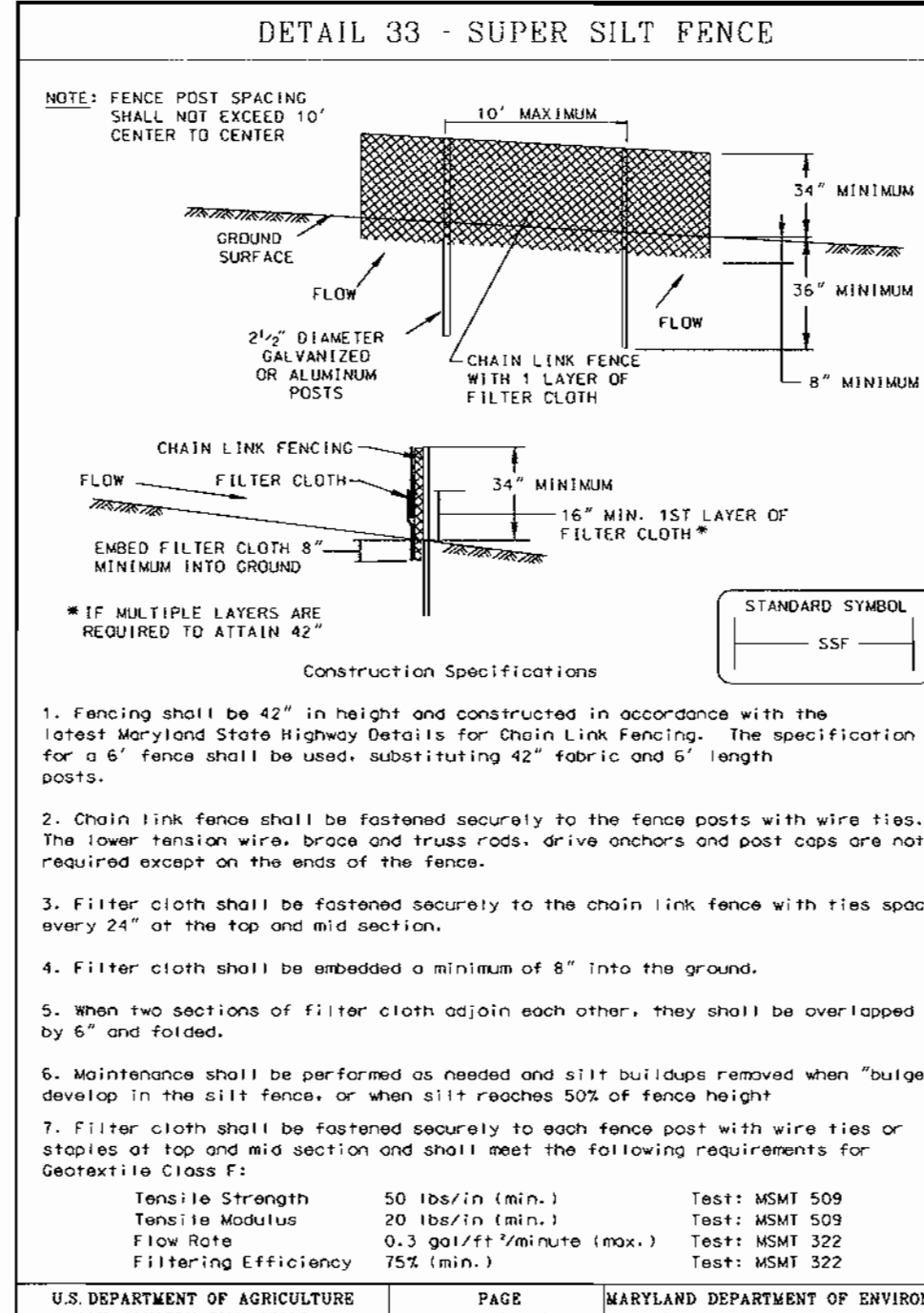
STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 19155

SDP-00-82

RELEASED FOR

PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION

DATE:



PERMANENT SEEDING NOTES

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

SEEDING PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RANKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

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

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1000 SOFT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SOFT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA/FORM FERTILIZER (15 LBS./1000 SOFT.).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1000 SO FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SOFT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH THROUGH APRIL 30, AND AUGUST THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SOFT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SOFT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIODS OCTOBER 15 THROUGH 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 500-0-0 OPTION (3) SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SOFT.) OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SOFT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GALS. PER ACRE (5 GALS./1000 SOFT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS PER ACRE (8 GALS./1000 SOFT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA/SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SILTY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE AUTHORITY.
 - REGARDLESS TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CHALK, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1/2" IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTCRACK, POKYON, NY, THISTLE, OR OTHERS AS SPECIFIED.
 - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (100-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

TEMPORARY SEEDING NOTES

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

SEEDING PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RANKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SOFT.).

SEEDING: FOR PERIODS MARCH THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 TONS PER ACRE OF ANNUAL RYE (12 LBS./1000 SOFT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (17 LBS./1000 SOFT.). FOR THE PERIOD NOVEMBER 16 THROUGH 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 500.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70-90 LBS./1000 SOFT.) OF UNROOTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 200 GALS. PER ACRE (5 GALS./1000 SOFT.) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 8 FT OR HIGHER, USE 348 GALS. PER ACRE (8 GALS./1000 SOFT.) FOR ANCHORING.

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SOD SHALL BE MACHINERY CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROUND AND THATCH.

STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUPPLIED VERTICALLY WITH A FIRM GRASS ON THE UPPER 10 PERCENT OF THE SECTION.

INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH MAXIMUM ALLOWABLE SWIMMING WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE CURE DRAIN OR OTHER APPROVED METHOD. UNEVEN ENDS WILL NOT BE ACCEPTABLE.

SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT EXCEEDS DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE REJECTED AND APPROVED PRIOR TO ITS INSTALLATION.

SITE PREPARATION

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TEST. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE CURE, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

A. PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

B. WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1000 SQUARE FEET. IN ALL SOILS, 1000 POUNDS PER ACRE OR 20 POUNDS PER 1000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.

C. ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

SOD INSTALLATION

A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.

B. THE FIRST ROW OF SOD SHALL BE LAD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

C. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMING AND PEGGING OR OTHER APPROVED METHODS.

D. AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

SOD MAINTENANCE

A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.

B. AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.

C. FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.

D. MAINTENANCE OF ESTABLISHED SOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 54-1.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION, PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES. DRES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENTS TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF "HOWARD COUNTY DESIGN MANUAL", STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEE G.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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 - 158 ACRES
 - AREA DISTURBED - 149 ACRES
 - AREA TO BE ROOFED OR PAVED - 1.02 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED - 0.47 ACRES
 - TOTAL CUT - 65 CUBIC YARDS
 - TOTAL FILL - 278 CUBIC YARDS
 - OFF-SITE WASTE/BORROW LOCATION - 2643 BORROW
- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY 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 SEDIMENT CONTROL STRUCTURES, 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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 WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

7/17/00
DATE

SIGNATURE OF ENGINEER
TIMOTHY F. WHITTIE, P.E.

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

7/10/2000
DATE

SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD S.C.D. & METS TECHNICAL REQUIREMENTS.

8/30/00
DATE

OSDA-NATURAL RESOURCES CONSERVATION SERVICE

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

8/30/00
DATE

HOWARD S.C.D.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

10/20/00
DATE

CHIEF DEVELOPMENT ENGINEERING DIVISION MK

11/2/00
DATE

CHIEF-DIVISION OF LAND DEVELOPMENT

11/2/00
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

11-2-00
DATE

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.
7125 Riverview Drive Columbia, Maryland 21046 2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

BY THE ENGINEER:

7/20/00
DATE

SIGNATURE OF ENGINEER
TIMOTHY F. WHITTIE, P.E.

BY THE DEVELOPER:

7/20/00
DATE

SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD S.C.D. & METS TECHNICAL REQUIREMENTS.

8/30/00
DATE

OSDA-NATURAL RESOURCES CONSERVATION SERVICE

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

8/30/00
DATE

HOWARD S.C.D.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

10/20/00
DATE

CHIEF DEVELOPMENT ENGINEERING DIVISION MK

11/2/00
DATE

CHIEF-DIVISION OF LAND DEVELOPMENT

11/2/00
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

11-2-00
DATE

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

OWNER

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DEVELOPER

EXXON MOBIL FUELS MARKETING COMPANY
3225 GALLOWAY ROAD ROOM SW113
FAIRFAX, VA. 22037
ATTN: MURAD PANIT
PHONE: (703)-849-6423

RELEASED FOR

PRELIMINARY ONLY

BIDDING

PERMIT

CONSTRUCTION

DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|------|--------|-----------------------|
| | | |

| PERMIT INFORMATION CHART | | | |
|--------------------------|----------------------|--------------|------------|
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA | 1/1 |
| LOT/PARCEL NO. | B-1 | TAX MAP NO. | ELECT DIST |
| PLAT# OR L/F BLOCK# | 14126 | ZONING | NT-COMM |
| WATER CODE | E-07 | TAX MAP NO. | 37 |
| | | ELECT DIST | 6 |
| | | CENSUS TRACT | 6066.02 |
| | | SEWER CODE | 2780000 |

| ADDRESS CHART | |
|----------------|----------------------------|
| LOT/PARCEL # | B-1 |
| STREET ADDRESS | 8251 SNOWDEN RIVER PARKWAY |

| TITLE CD11.DGN FOR AN EXHIB STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | | |
|---|-----|----------------|----------|
| DESIGN BY: | GHR | SCALE: | 1"=20' |
| DRAWN BY: | MIB | DATE: | 6/19/00 |
| CHECKED BY: | GHR | APPROVED: | TFW |
| | | PROJECT NO.: | 99460.01 |
| | | DRAWING NUMBER | 11 OF 15 |

DATE: 6/14/00

DATE: 11/2/00

DATE: 8/30/00

DATE: 7/17/00

DATE: 7/10/2000

DATE: 11/2/00

DATE: 10/20/00

DATE: 8/30/00

DATE: 8/30/00

DATE: 7/20/00

DATE: 7/20/00

LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
ARTICLES OF AMENDMENT NO. 597020

FORMERLY KNOWN AS HRD HOLDINGS, INC.

COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
LOT 2

DEED 4118/16 & 3245/2514
PLAT NO. 13398

ZONED: NT (NEW TOWN) OPEN SPACE
68,737 SQUARE FEET (1.5700 ACRES)

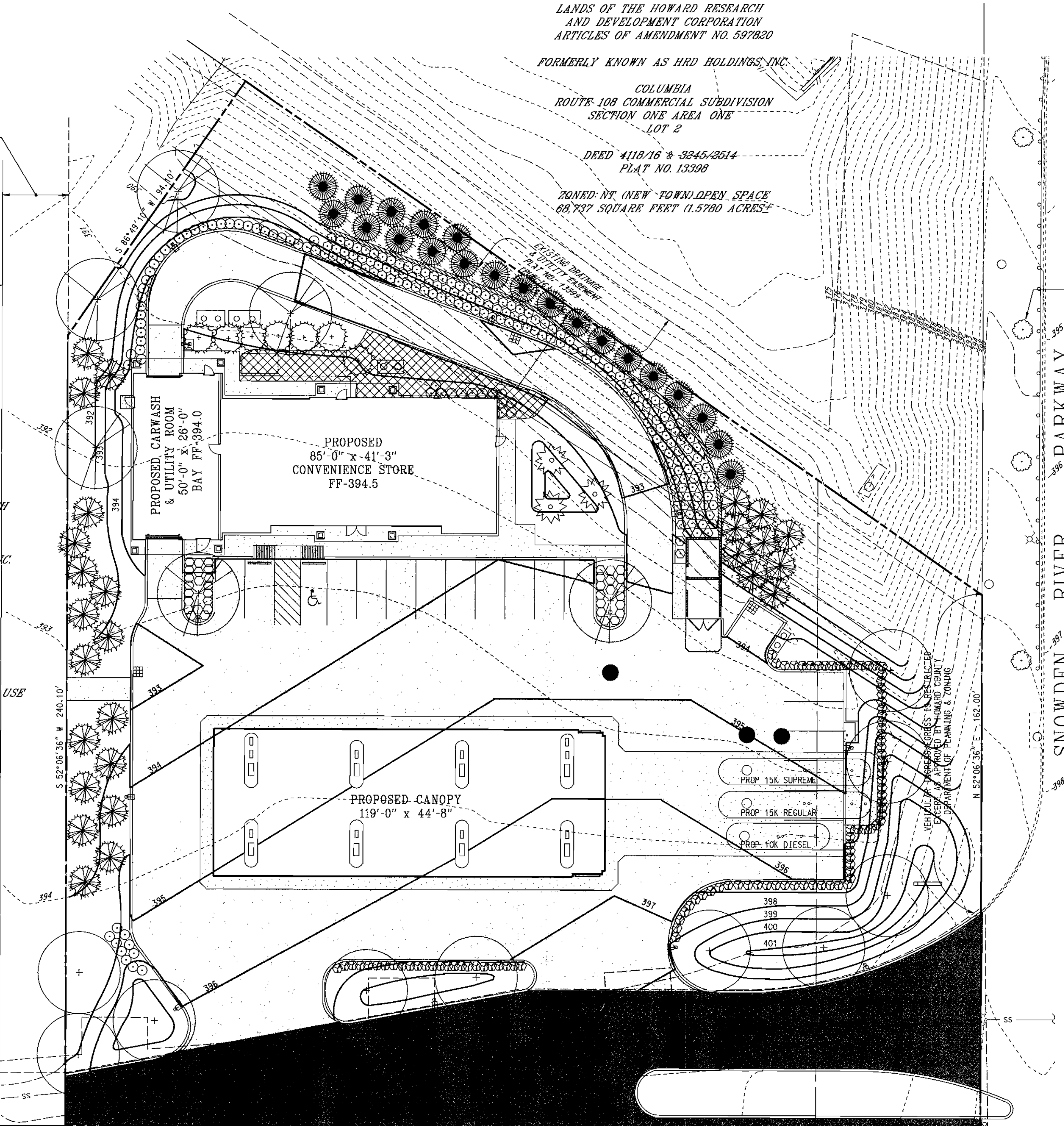
EX STORMDRAIN EASEMENT L4976 F222 (PRIVATE)
EX 20' WATER & UTILITY EASEMENT PLAT # 14076 (PUBLIC)

OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
ARTICLES OF AMENDMENT NO. 587020

FORMERLY KNOWN AS HRD HOLDINGS, INC.

COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
DEED 2262/549 & 4118/16
PLAT NO. 14126

PARCEL B-2
ZONED: NT (NEW TOWN) COMMERCIAL LAND USE
PROPOSED HOTEL SEE SDP-00-92



EX. STREET TREE TYP. SEE F-00-51

SNOWDEN RIVER PARKWAY
150' RIGHT OF WAY

GENERAL PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "USA STANDARD FOR NURSERY STOCK," LATEST EDITION.
- ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS.
- CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.
- PLANT MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- ALL PLANT BEDS AND PLANTING AREAS TO BE MULCHED TO A DEPTH OF 3" SHREDED HARDWOOD BARK UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.
- ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE FINE GRADED AND SEEDED.
- OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE MAKING ANY SUBSTITUTIONS OR CHANGES.
- ALL PLANT BEDS SHALL BE CONTAINED WITH A SPADED EDGE UNLESS OTHERWISE NOTED ON DRAWINGS.
- QUANTITIES SHOWN ON PLANT LIST ARE FOR THE CONTRACTORS CONVENIENCE ONLY AND ARE NOT GUARANTEED TO BE ACCURATE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLAN AND QUANTITIES SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL APPLY.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF THE COUNTY CODE AND THE LANDSCAPE MANUAL.
- GENERAL CONTRACTOR IS TO PROVIDE ALL MATERIALS AND LABOR, INCLUDING PLANTS, PLANTER FILL MATERIALS, MULCHES, SOIL PREPARATION, DECORATIVE ITEMS, INSPECTION, TRANSPORTATION, WARRANTY, ETC.
- TOPSOIL TO A DEPTH OF 4" IN ALL AREAS TO BE SEEDED OR SODDED.
- EACH PLANTING BED AREA IS TO RECEIVE A MINIMUM OF 6" OF PREPARED SOIL CULTIVATED TO A 12" DEPTH. PREPARED SOIL SHALL BE MIXED AS FOLLOWS: 2/3 SANDY LOAM TOPSOIL FREE OF ROOTS, ROCKS, WEEDS, AND OTHER DEBRIS AND 1/3 PEAT MOSS OR APPROVED ORGANIC MULCH.
- SOIL ADDITIVES TO BE GRANULAR FERTILIZER OF 1:2:1 RATIO. SOIL OUTSIDE RANGE OF 5.0 - 7.0 PH SHALL BE TREATED APPROPRIATELY TO CORRECT FOR HIGH ALKALINITY OR ACIDITY.
- THE USE OF ON-SITE TOPSOIL MUST BE APPROVED IN ADVANCE BY LANDSCAPE ARCHITECT.
- ALL BEDS TO BE TREATED WITH GRANULAR PREEMERGENT WEED CONTROL PER MANUFACTURER'S SPECIFICATIONS. USE TREFLAN OR EQUAL AS APPROVED BY LANDSCAPE ARCHITECT.
- SODDED AND SEEDED AREAS SHALL BE PROPERLY PREPARED, FINISH GRADED AND HAND ROLLED PRIOR TO SOD PLACEMENT OR SEEDING. SEEDED AREAS SHALL BE RE-SEEDED AS NECESSARY TO PROVIDE AN EVEN STAND OF GRASS.
- PROVIDE A WARRANTY ON ALL WORK FOR A MINIMUM OF ONE YEAR INCLUDING ONE CONTINUOUS GROWING SEASON. COMMENCE WARRANTY ON THE DATE IDENTIFIED IN THE CERTIFICATE OF SUBSTANTIAL COMPLETION. WARRANTY TO INCLUDE COVERAGE OF PLANTS FROM DEATH OR UNHEALTHY CONDITIONS. REPLACEMENT PLANTS SHALL BE THE SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON WITH A NEW WARRANTY COMMENCING WITH THE DATE OF THE REPLACEMENT.
- MAINTAIN PLANT LIFE IMMEDIATELY AFTER PLACEMENT AND CONTINUE MAINTENANCE UNTIL TERMINATION OF WARRANTY. MAINTENANCE TO INCLUDE WEEDING, APPLICATIONS OF PESTICIDES, WATERING, TRIMMING AND PRUNING, DISEASE CONTROL, AND MAINTENANCE OF PLANT BRACING EQUIPMENT.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$29,060.00
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE NT ALTERNATIVE COMPLIANCE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

| EXISTING LANDSCAPE PLANTINGS | | | | |
|------------------------------|----------|---|--------------------------------------|---------|
| SYMBOL | QUANTITY | BOTANICAL/Common NAME | SIZE | REMARKS |
| + | 10 | PYRUS C "CLEVELAND SELECT" | 3 - 3 1/2" CAL 14' - 16" HT. | |
| ⊗ | 6 | ACER S "LEGACY" | 2 1/2 - 3" CAL 12' - 14" HT. | |
| ⊗ | 3 | PRUNUS C NEWPORT OR KWANZEN CHERRY | 2 1/2 - 3" CAL 12' - 14" HT. | |
| ⊗ | 27 | PICEA ABIES NORWAY SPRUCE | 8' - 10' HT. | |
| ⊗ | 7 | ILEX A "FOSTERI" BERBERIS + ROSEGLOW | 6' HT 18" - 24" | |
| ⊗ | 21 | PINUS STROBIS | 6' - 8' HT. | |
| ⊗ | 39 | EUONYMUS A. COMPACTUS | 18" - 24" HT. | |
| ⊗ | 162 | FORSYTHIA X SUSPENS A | 24" - 30" HT. SPACED @ 3' - 0" OC | |
| ⊗ | 37 | JUNIPERUS SAGENTI "GLAUC A" | 18" - 24" HT. SPACED @ 2' - 6" OC | |
| ⊗ | 99 | TAXUS HICKSII "EVERGREEN HEDGE" | 30" - 36" HT. SPACED @ 2' - 0" OC | |
| ⊗ | 300 | VINCA MINOR | 2 1/2" POTS SPACED @ 6" OC | |

SDP-00-82
RELEASED FOR

PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION

DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|--|--|---------------------------------|
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME ROUTE 108 COMMERCIAL | SECTION/AREA 1/1 | LOT/PARCEL NO. B-1 |
| PLAT OR L/V BLOCK# 14126 1 | ZONING NT-COMM | TAX MAP NO. ELECT DISTR 37 6 |
| WATER CODE E-07 | SEWER CODE 2780000 | CENSUS TRACT 6066.02 |
| ADDRESS CHART | | |
| LOT/PARCEL # B-1 | STREET ADDRESS 8251 SNOWDEN RIVER PARKWAY | |
| TITLE CD14.DGN FOR AN EXION STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21046 SITE LANDSCAPING PLAN | | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460-01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER 14 OF 15 |
| CHECKED BY: GHR | APPROVED: TFW | |

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF-DEVELOPMENT ENGINEERING DIVISION
CHIEF-DIVISION OF LAND DEVELOPMENT
DIRECTOR

DATE: 10/20/00
DATE: 11/2/00
DATE: 11/6/00

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

DATE: 11-2-00

PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE: 6/14/00

OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
ARTICLES OF AMENDMENT NO. 597020
FORMERLY KNOWN AS HRD HOLDINGS, INC.

COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
DEED 2262/549 4118/16
PLAT NO. 14126

PARCEL B-6
ZONED: NT (NEW TOWN) COMMERCIAL LAND USE

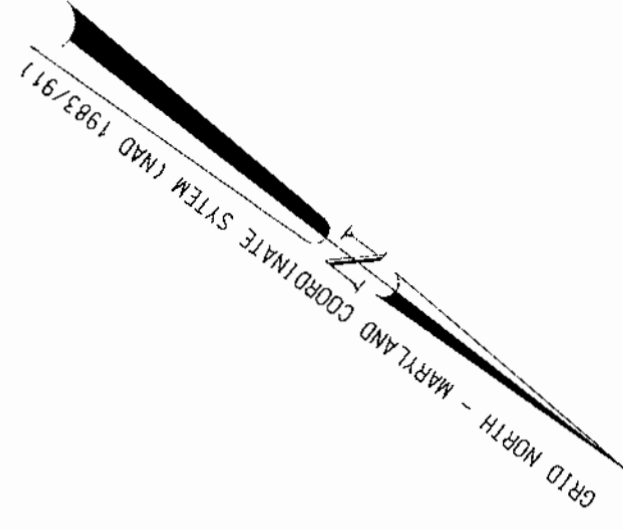
FREDERICK WARD ASSOCIATES, INC.
ENGINEERS
1725 Riverwood Drive Columbia, Maryland 21046-2354
ARCHITECTS
Phone: 410-290-9550 Fax: 410-720-6226
SURVEYORS
Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

10/20/00 DATE

STATE OF MARYLAND
TIMOTHY F. WHITTE
PROFESSIONAL ENGR. NO. 19155

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

DEVELOPER
EXION MOBIL FUELS MARKETING COMPANY
3225 GALLOWAY ROAD ROOM 5W113
FAIRFAX, VA. 22037
ATTN: MURAD PANDIT
PHONE: (703)-849-6423

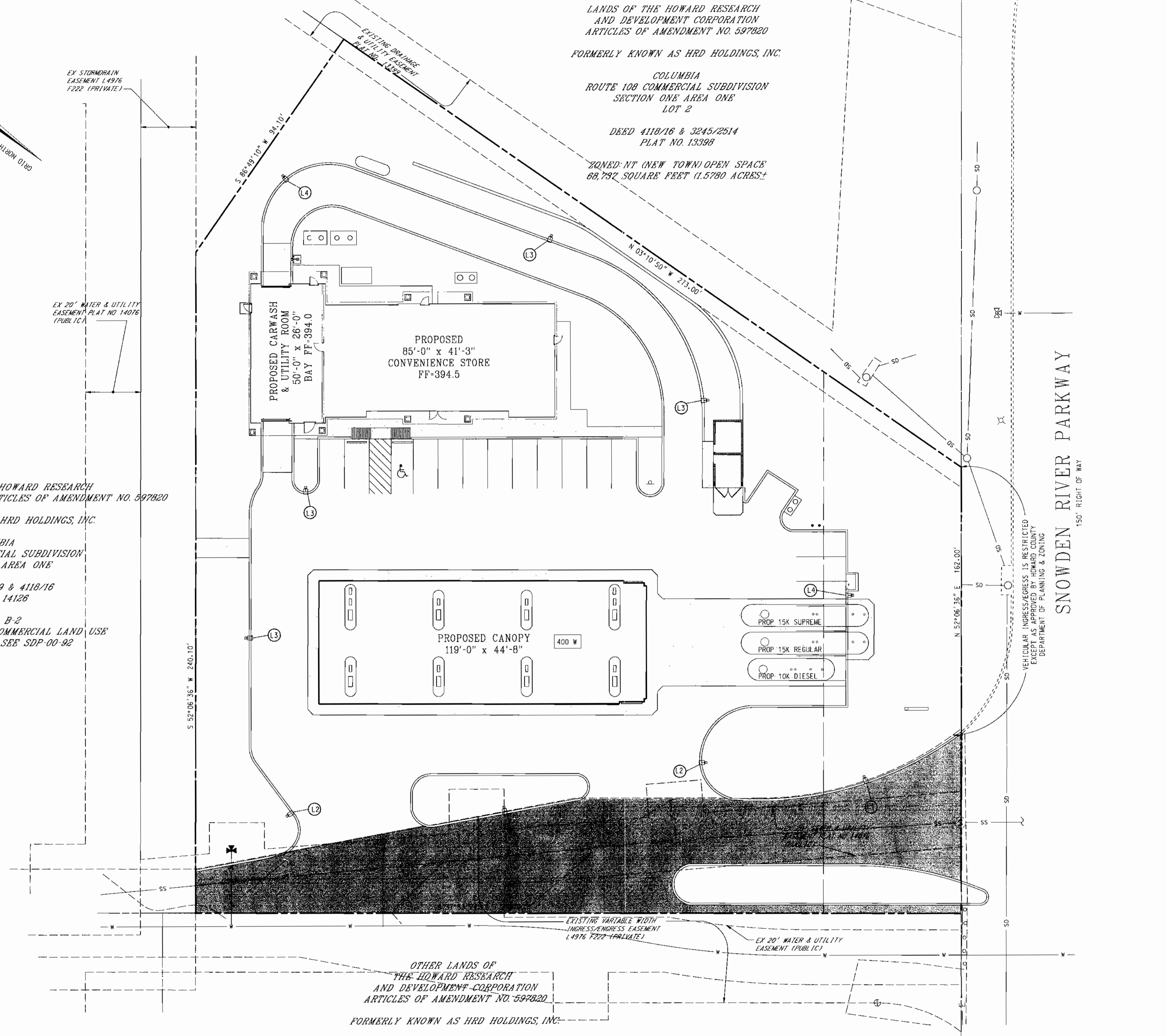


LANDS OF THE HOWARD RESEARCH
AND DEVELOPMENT CORPORATION
ARTICLES OF AMENDMENT NO. 597820
FORMERLY KNOWN AS HRD HOLDINGS, INC.
COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
LOT 2
DEED 4118/16 & 3245/2514
PLAT NO. 13398
ZONED: NT (NEW TOWN) OPEN SPACE
68,797 SQUARE FEET (1.5780 ACRES)

| LIGHTING CHART | | |
|----------------|----------|--|
| TYPE | QUANTITY | DESCRIPTION |
| L1 | 2 | 250 W WHITE 25' STD (1) RW23C ET 2/250 MH ***/2; LLF 0.70 |
| L2 | 2 | 250 W WHITE 25' STD (1) RW23C ET 3/250 MH; LLF 0.70 |
| L3 | 4 | 400 W WHITE 25' STD (1) RW42C ET 2/400 MH ***/2; LLF=0.72 |
| L4 | 2 | 400 W WHITE 25' STD (1) PK C ET 3/400 MH ***/2; LLF 0.72 |

POLES AND FIXTURES:
KIM LIGHTING
ENTABLATURE
COLOR: BLACK
TYPE: ROUND POLE
CONTACT:
COMMERCIAL LIGHTING SALES, INC
6797 DORSEY ROAD SUITE 3
ELK RIDGE, MD 21075
ATTN:
SHERWIN YOFFE
(410)796-1033 EXT 8103

OTHER LANDS OF THE HOWARD RESEARCH
AND DEVELOPMENT CORPORATION ARTICLES OF AMENDMENT NO. 597820
FORMERLY KNOWN AS HRD HOLDINGS, INC.
COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
DEED 2262/549 & 4118/16
PLAT NO. 14126
PARCEL B-2
ZONED: NT (NEW TOWN) COMMERCIAL LAND USE
PROPOSED HOTEL SEE SDP-00-92



SDP-00-82
RELEASED FOR
 PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION
 DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|--|----------------------------|-----------------------|
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA |
| PLAT# OR L/F | BLOCK# | ZONING |
| TAX MAP NO. | ELECT. DIST. | CENSUS TRACT |
| WATER CODE | SEWER CODE | |
| ADDRESS CHART | | |
| LOT/PARCEL # | STREET ADDRESS | |
| B-1 | 8251 SNOWDEN RIVER PARKWAY | |
| TITLE CD13.DGN FOR AN EXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 SITE LIGHTING PLAN | | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460-01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: TFW | 15 OF 15 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION MK 10/20/00
 CHIEF DIVISION OF LAND DEVELOPMENT 11/2/00
 DIRECTOR 11/6/00
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER 11-2-00
 HOWARD COUNTY HEALTH DEPARTMENT

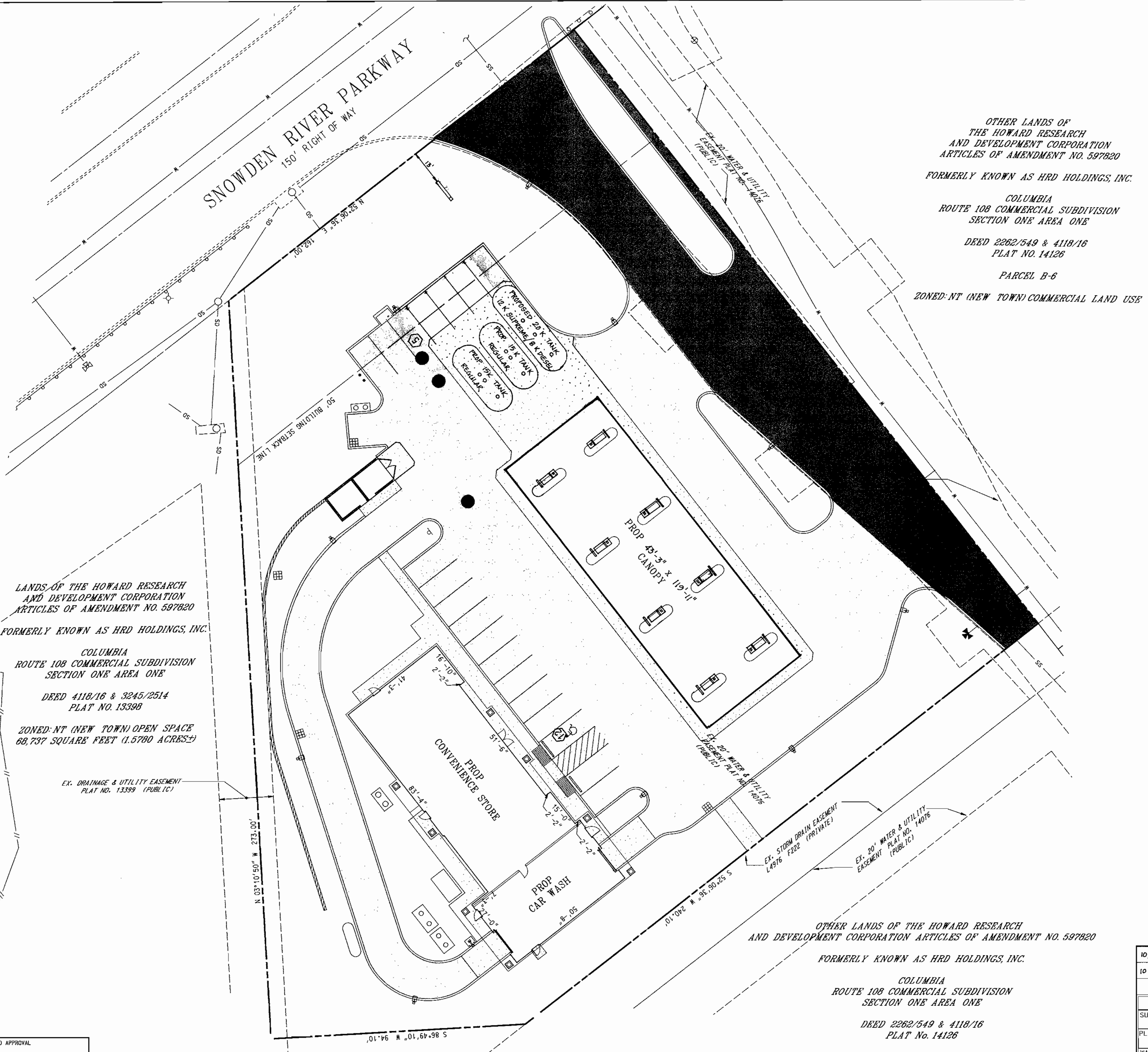
PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 6/14/00

COLUMBIA
ROUTE 108 COMMERCIAL SUBDIVISION
SECTION ONE AREA ONE
DEED 2262/549 4118/16
PLAT NO. 14126
PARCEL B-6
ZONED: NT (NEW TOWN) COMMERCIAL LAND USE

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS: 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS: Phone: 410-260-9550 Fax: 410-720-6226
 SURVEYORS: Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00
 STATE OF MARYLAND
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 13155

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 DEVELOPER: **EXON MOBIL FUELS MARKETING COMPANY**
 3225 GALLOWAY ROAD ROOM 5W113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703)-849-6423



OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION ARTICLES OF AMENDMENT NO. 597820
 FORMERLY KNOWN AS HRD HOLDINGS, INC.
 COLUMBIA ROUTE 108 COMMERCIAL SUBDIVISION SECTION ONE AREA ONE
 DEED 2262/549 & 4118/16 PLAT NO. 14126
 PARCEL B-6
 ZONED: NT (NEW TOWN) COMMERCIAL LAND USE

LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION ARTICLES OF AMENDMENT NO. 597820
 FORMERLY KNOWN AS HRD HOLDINGS, INC.
 COLUMBIA ROUTE 108 COMMERCIAL SUBDIVISION SECTION ONE AREA ONE
 DEED 4118/16 & 3245/2514 PLAT NO. 13398
 ZONED: NT (NEW TOWN) OPEN SPACE 68,737 SQUARE FEET (1.5700 ACRES±)

OTHER LANDS OF THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION ARTICLES OF AMENDMENT NO. 597820
 FORMERLY KNOWN AS HRD HOLDINGS, INC.
 COLUMBIA ROUTE 108 COMMERCIAL SUBDIVISION SECTION ONE AREA ONE
 DEED 2262/549 & 4118/16 PLAT NO. 14126
 PARCEL B-2
 ZONED: NT (NEW TOWN) COMMERCIAL LAND USE
 PROPOSED HOTEL SEE SDP-00-92

SDP-00-82
 RELEASED FOR
 PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION
 DATE:

| 10/15/01 | 2 | REVISED SIGN SETBACK |
|--------------------------|--|---|
| 10/15/01 | 1 | REVISED TANK FIELD AND CANOPY PER EXXON MOBIL |
| DATE | NUMBER | REVISION DESCRIPTIONS |
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA 1/1 |
| PLAT# OR L/F | 14126 | LOT/PARCEL NO. B-1 |
| BLOCK# | 1 | TAX MAP NO. 37 |
| ZONING | NT-COMM | ELECT. DISTR. 6 |
| WATER CODE | E-07 | CENSUS TRACT 6066.02 |
| | | SEWER CODE 2780000 |
| ADDRESS CHART | | |
| LOT/PARCEL # | B-1 | STREET ADDRESS 8251 SNOWDEN RIVER PARKWAY |
| TITLE (DD03.DGN) | FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER 2 OF 15 |
| CHECKED BY: GHR | APPROVED: TFW | |

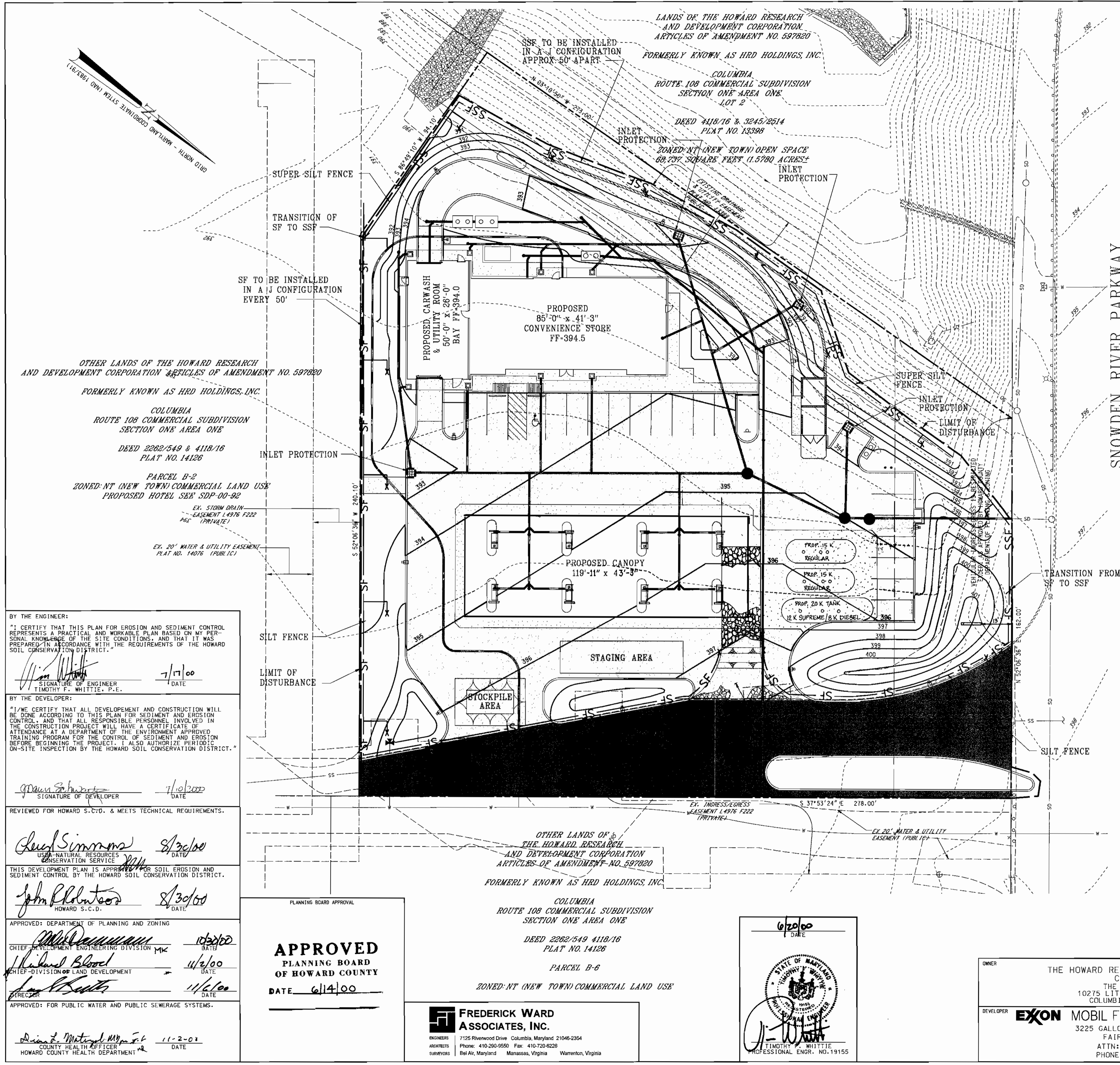
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE 10/20/00
 CHIEF DEVELOPMENT ENGINEERING DIVISION MK
 [Signature] DATE 11/2/00
 CHIEF DIVISION OF LAND DEVELOPMENT
 [Signature] DATE 11/2/00
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 [Signature] DATE 11-2-00
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

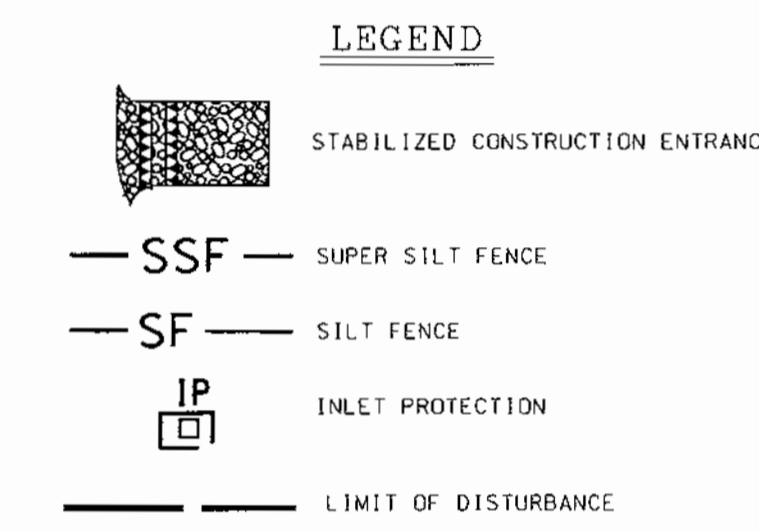
FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21048-2354
 ARCHITECTS Phone: 410-290-9550 Fax: 410-723-8228
 SURVEYORS Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00
 [Signature]
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 19155

OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 DEVELOPER **EXXON MOBIL FUELS MARKETING COMPANY**
 3225 GALLOWAY ROAD ROOM 5W113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703)-849-6423



- ### SEQUENCE OF CONSTRUCTION
- OBTAIN HOWARD COUNTY GRADING PERMIT
 - NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
 - CONDUCT A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO ANY LAND DISTURBANCE.
 - INSTALL ALL SILT FENCE AS INDICATED ON PLANS.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM.
 - STIR AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE WITH SEED AND MULCH.
 - ROUGH GRADE SITE AND CONSTRUCT RETAINING WALL.
 - INSTALL STORM DRAIN UTILITIES. MAKE CONNECTION TO EXISTING STUB FROM EXISTING INLET ON SNOWDEN RIVER PARKWAY. STABILIZE INLETS WITH INLET PROTECTION, IMMEDIATELY UPON COMPLETION OF STORM DRAIN INSTALLATION.
 - COMPLETE INSTALLATION OF STORM DRAIN SYSTEM AND REMAINING ON-SITE UTILITIES, INCLUDING UNDERGROUND FUEL STORAGE TANKS.
 - INSTALL CURB AND GUTTER
 - INSTALL CONVENIENCE STORE, CAR WASH, PUMP ISLANDS, AND CANOPY.
 - INSTALL PAVING BASE COURSE. REMOVE INLET PROTECTION PER THE SEDIMENT CONTROL INSPECTOR AND, AS WORK PROGRESSES.
 - INSTALL PAVING SURFACE COURSE.
 - FINE GRADE AND STABILIZE REMAINING SITE. INSTALL LANDSCAPING.
 - CLEAN AND FLUSH OUT STORM DRAIN SYSTEM. DISPOSE OF SEDIMENT LADEN MATERIAL CLEANED OUT OF THE STORM DRAIN IN A MANNER APPROVED BY THE SEDIMENT CONTROL INSPECTOR.
 - REMOVE ALL SEDIMENT CONTROL MEASURES AFTER RECEIVING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR.



ESTIMATE OF SEDIMENT CONTROL QUANTITIES

SUPER SILT FENCE: 470 LF
 SILT FENCE: 350 L.F.
 STABILIZED CONSTR. ENTR.: 1EA
 INLET PROTECTION: 4

NOTE: THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.

SITE ANALYSIS DATA

- TOTAL SITE AREA: 68,737 SF = 1.58 AC±
- TOTAL DISTURBED AREA: 64,866 SF = 1.49±
- TOTAL IMPERVIOUS AREA: 44,302 SF = 1.02 AC±
- AREA TO BE VEGETATIVELY STABILIZED: 20,564 SF = 0.47 AC±
- EARTHWORK:
 CUT = 65 CY
 FILL = 2,298 CY
 TOPSOIL = 410

NOTE: THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.

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.
 SIGNATURE OF ENGINEER:
 DATE: 7/17/00

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF DEVELOPER:
 DATE: 7/10/2000

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.
 SIGNATURE:
 DATE: 8/30/00

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE:
 DATE: 8/30/00

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION:
 DATE: 10/20/00
 CHIEF DIVISION OF LAND DEVELOPMENT:
 DATE: 4/2/00
 DIRECTOR:
 DATE: 11/1/00

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER:
 DATE: 11-2-00

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS: 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS: Phone: 410-290-9550 Fax: 410-720-8228
 SURVEYORS: Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

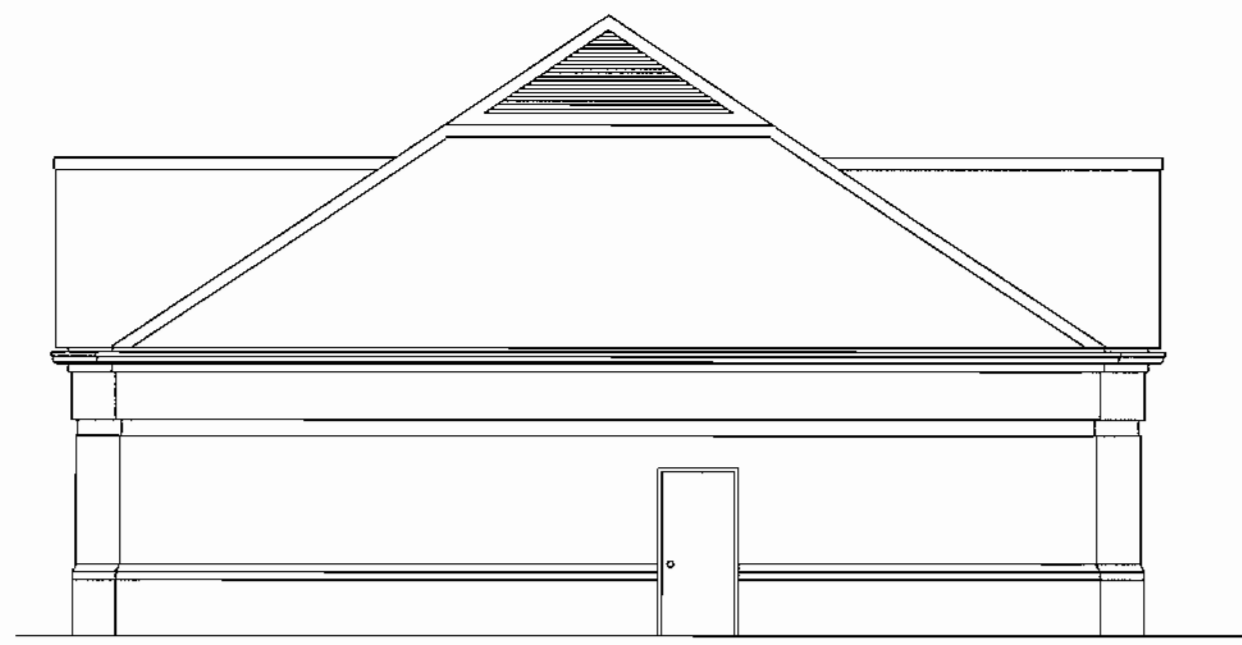
DATE: 6/20/00
 SIGNATURE:
 PROFESSIONAL ENGR. NO. 19155

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 DEVELOPER: **EXXON MOBIL FUELS MARKETING COMPANY**
 3225 GALLOWAY ROAD ROOM 5W113 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT PHONE: (703)-849-6423

SDP-00-82
 RELEASED FOR:
 PRELIMINARY ONLY
 BIDDING
 PERMIT
 CONSTRUCTION
 DATE:

| DATE | NUMBER | REVISION DESCRIPTIONS |
|----------|--------|---|
| 10/15/01 | 2 | REVISED SIGN SETBACK |
| 10/15/01 | 1 | REVISED TANK FIELD AND CANOPY PER EXXON MOBIL |

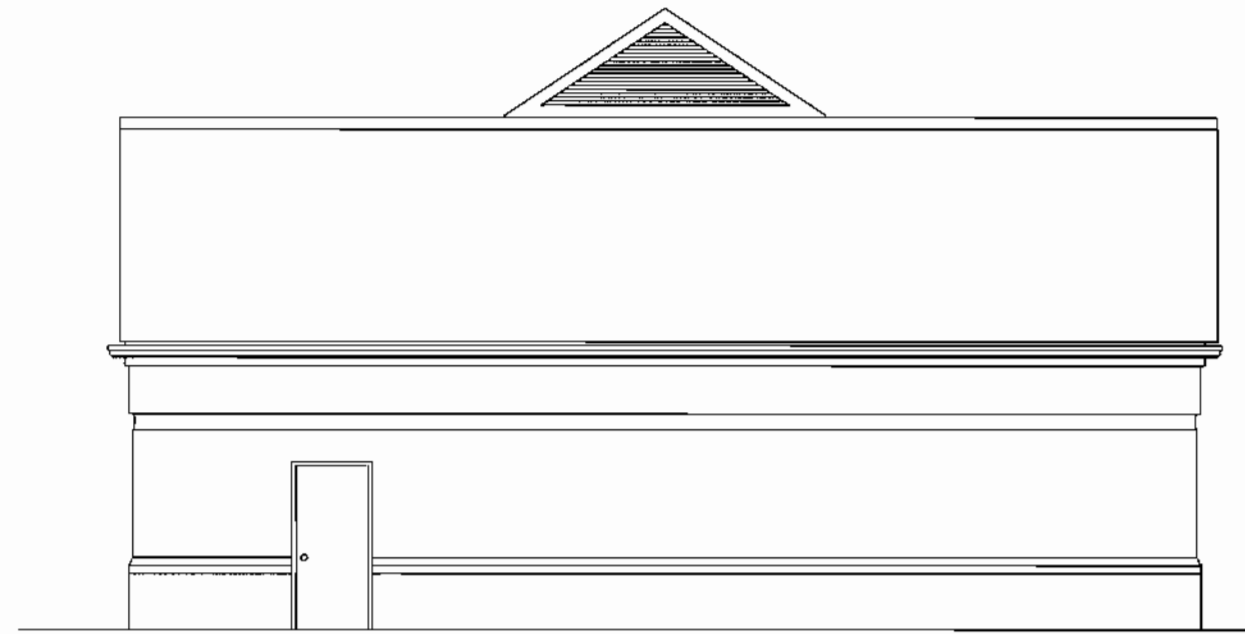
| PERMIT INFORMATION CHART | | | |
|---|----------------------------|-----------------------|------------|
| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NO. | |
| ROUTE 108 COMMERCIAL | 1/1 | B-1 | |
| PLAT# OR L/F | BLOCK# | TAX MAP NO. | ELECT DIST |
| 14126 | 1 | 37 | 6 |
| WATER CODE | SEWER CODE | CENSUS TRACT | |
| E-07 | 2780000 | 6066.02 | |
| ADDRESS CHART | | | |
| LOT/PARCEL # | STREET ADDRESS | | |
| B-1 | 8251 SNOWDEN RIVER PARKWAY | | |
| TITLE CD10.DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | | |
| SEDIMENT AND EROSION CONTROL PLAN | | | |
| DESIGN BY: GHR | SCALE: 1"=20' | PROJECT NO.: 99460.01 | |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER | |
| CHECKED BY: GHR | APPROVED: TFW | 10 OF 15 | |



RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



FRONT ELEVATION
SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



REAR ELEVATION
SCALE: 1/8" = 1'-0"



FRONT CANOPY ELEVATION
SCALE: 1/8" = 1'-0"



RIGHT SIDE CANOPY ELEVATION
SCALE: 1/8" = 1'-0"

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 10/20/00 DATE
 CHIEF-DIVISION OF LAND DEVELOPMENT 4/2/00 DATE
 DIRECTOR 11/6/00 DATE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER 11-2-00 DATE
 HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

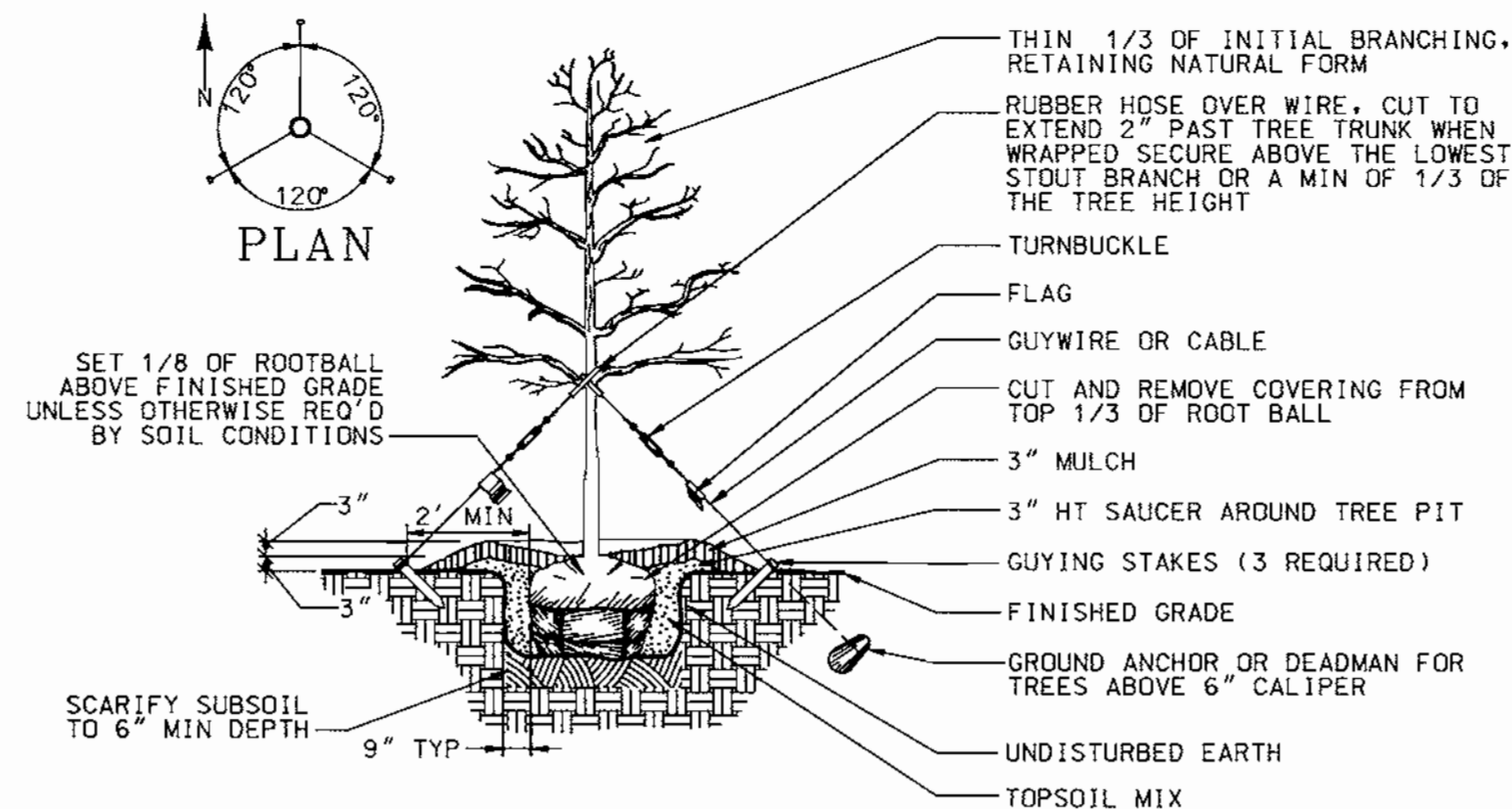
FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6228
 SURVEYORS Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00 DATE
 STATE OF MARYLAND
 TIMOTHY F. WHITTIE
 PROFESSIONAL ENGR. NO. 19155

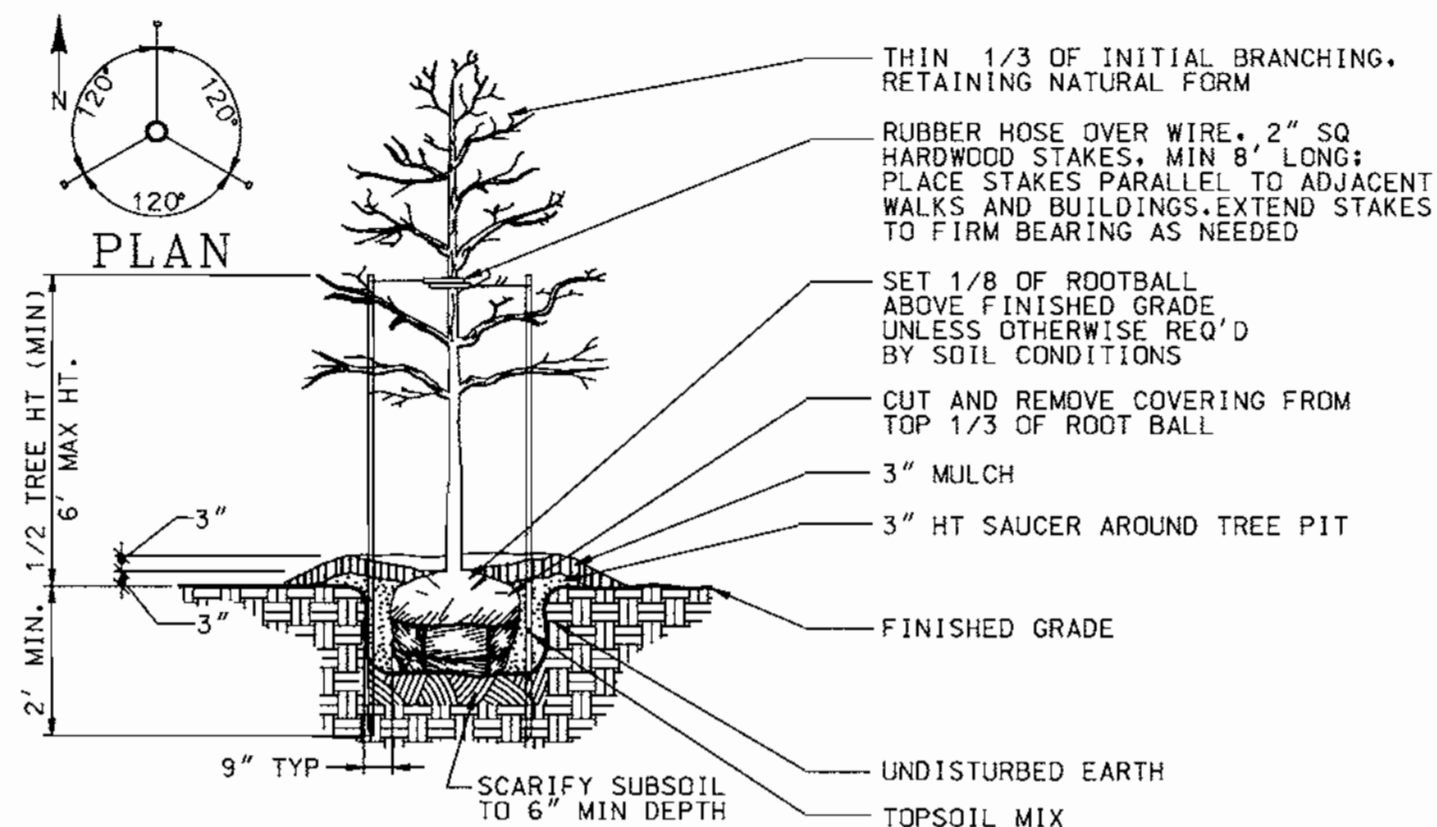
OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 DEVELOPER **EXXON** MOBIL FUELS MARKETING COMPANY
 3225 GALLOWES ROAD ROOM 5W113
 FAIRFAX, VA. 22037
 ATTN: MURAD PANDIT
 PHONE: (703)-849-6423

| | | |
|---|----------------------------|--------------------------------|
| 10/15/01 | 1 | REVISED C-SIGN PER EXXON MOBIL |
| DATE | NUMBER | REVISION DESCRIPTIONS |
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | SECTION/AREA | LOT/PARCEL NO. |
| ROUTE 108 COMMERCIAL | 1/1 | 8-1 |
| PLAT# OR L/F BLOCK# | ZONING | TAX MAP NO. ELECT DISTR |
| 14126 | NT-COMM | 37 6 |
| CENSUS TRACT | 6066.02 | |
| WATER CODE | SEWER CODE | |
| E-07 | 2780000 | |
| ADDRESS CHART | | |
| LOT/PARCEL # | STREET ADDRESS | |
| 8-1 | 8251 SNOWDEN RIVER PARKWAY | |
| TITLE CD12.DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | |
| BUILDING ELEVATIONS | | |
| DESIGN BY: GHR | SCALE: AS NOTED | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: TFW | 12 OF 15 |

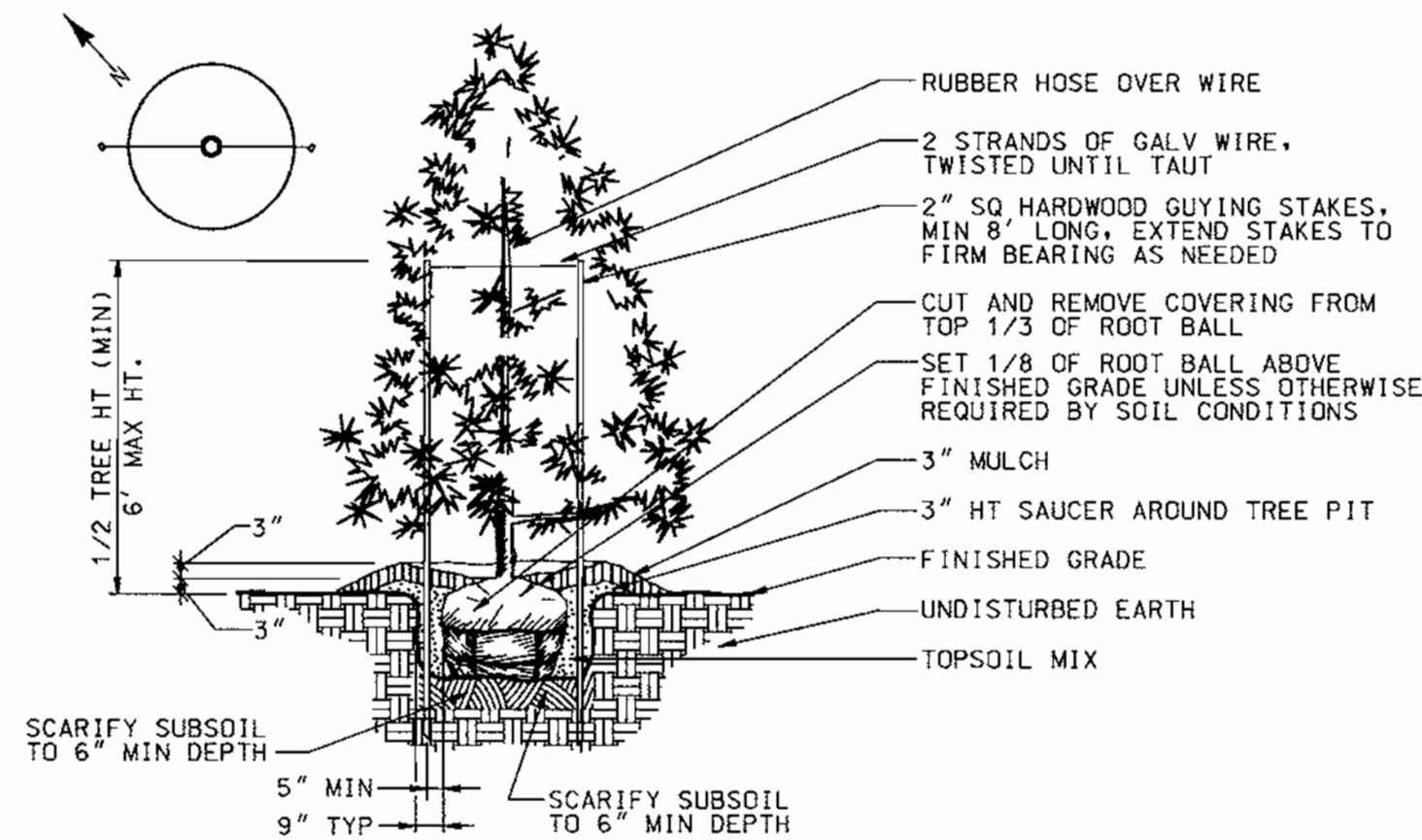
SDP-00-82
 RELEASED FOR
 PRELIMINARY ONLY
 BIDDING
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 DATE:



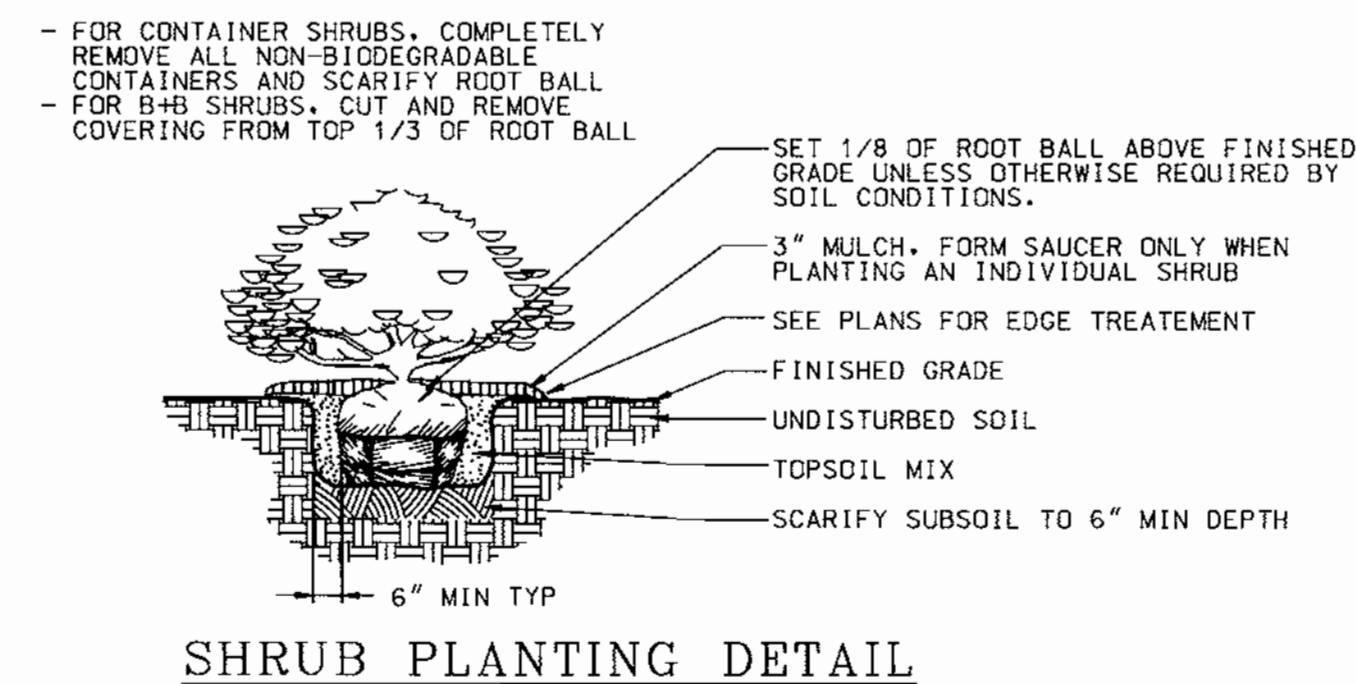
DECIDUOUS TREE PLANTING (OVER 3" CALIPER)



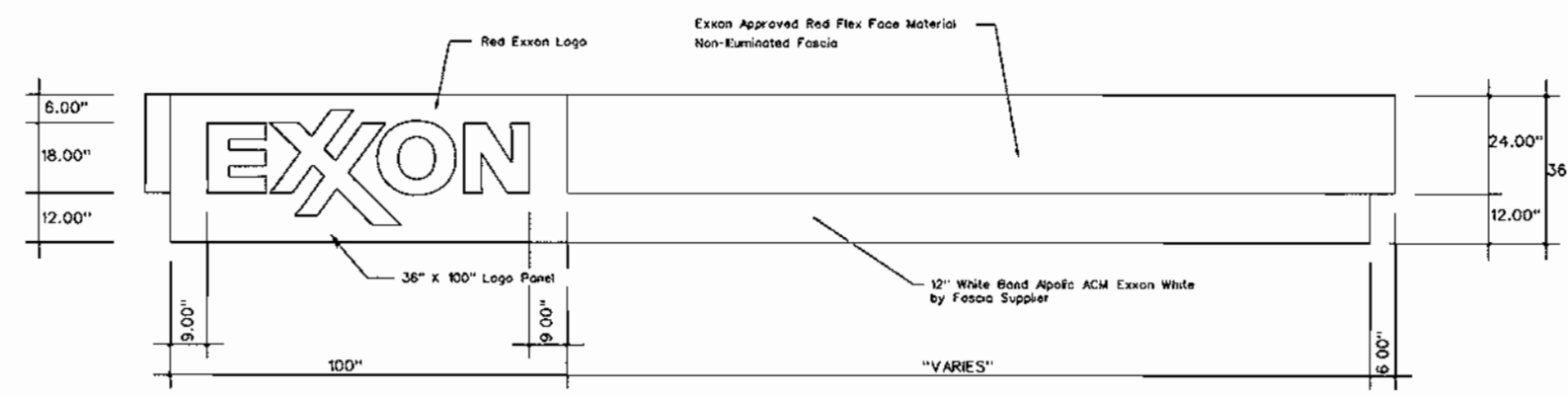
DECIDUOUS TREE PLANTING (UP TO 3" CALIPER)



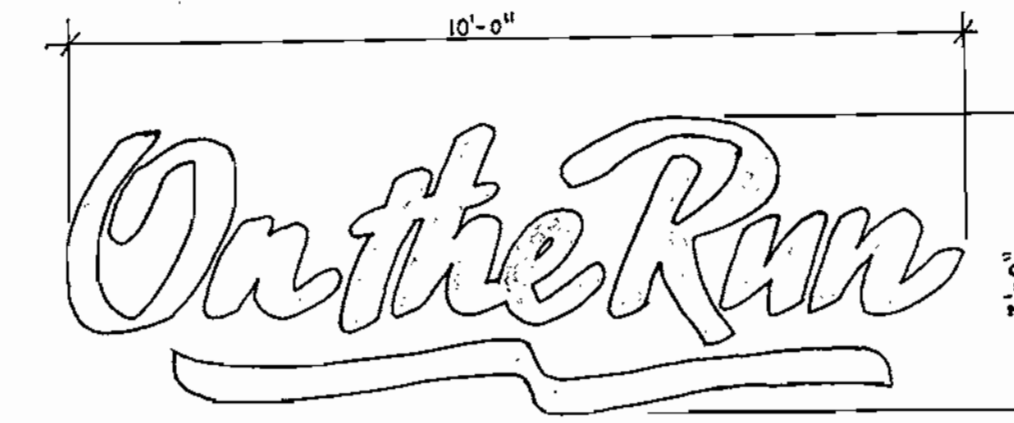
EVERGREEN TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



SCALE: 1/4" = 1'-0"



BUILDING SIGN - 30.5

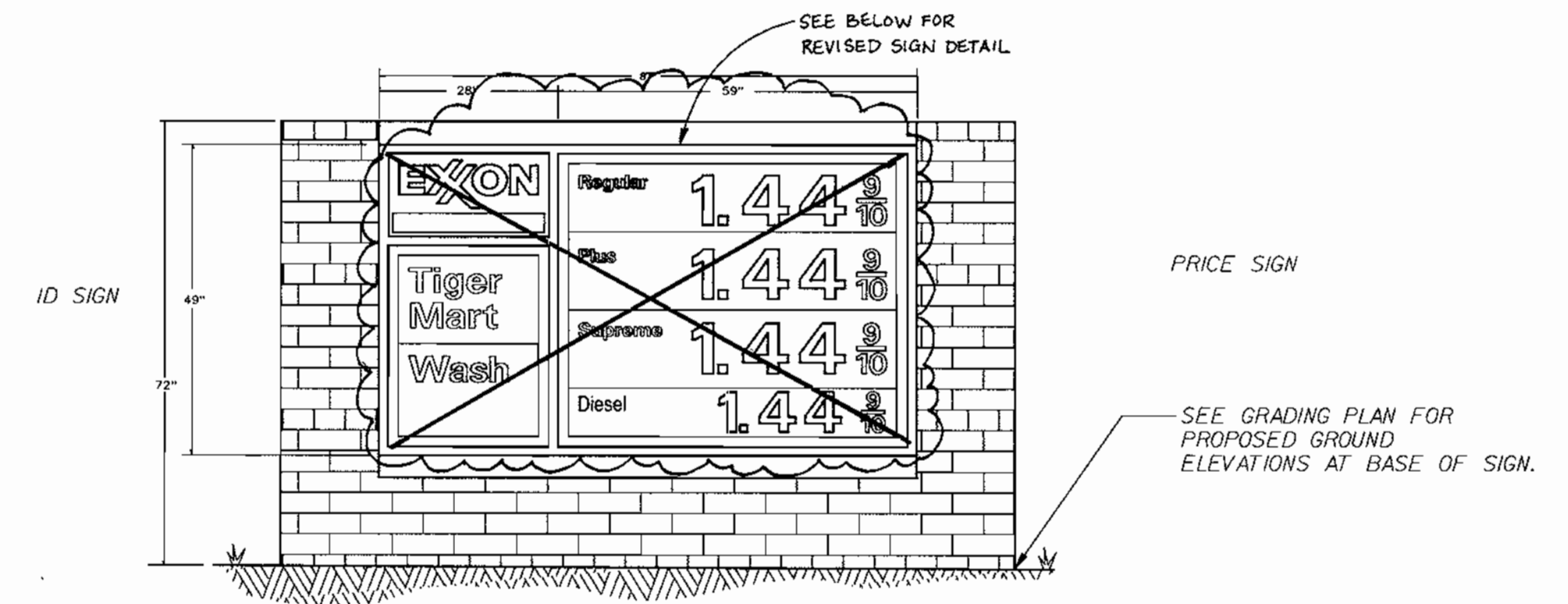
INDIVIDUAL LETTERS INTERNALLY ILLUMINATED (NOT TO SCALE)

SIGNAGE CALCULATIONS

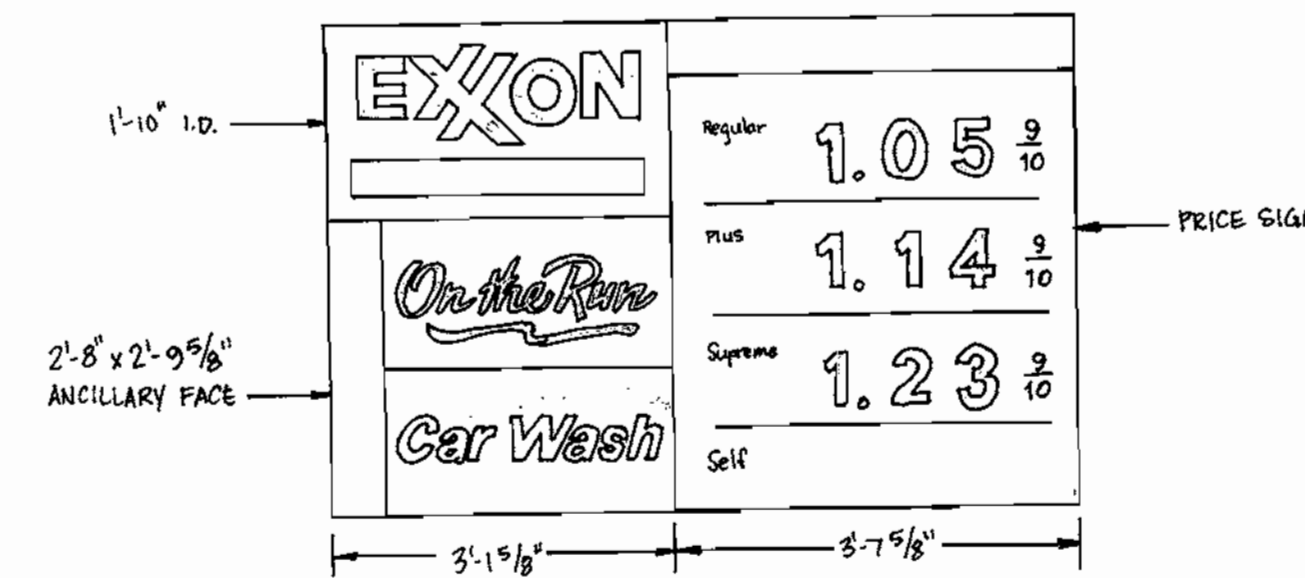
FREESTANDING SIGNAGE
ALLOWABLE AREA:
ONE SQ FT PER LINEAR FOOT SETBACK FROM THE RIGHT-OF-WAY
13 1/2 x 1 SQ FT = 13 SQ FT
HEIGHT:
ONE FT PER TWO LINEAR FOOT SETBACK FROM THE RIGHT-OF-WAY
13/2 = 6.5'

PROPOSED:
EXXON I.D. = 10.29 SQ FT
PRICE = N/A
TOTAL = 10.29 SQ FT
HEIGHT = 6.00'

BUILDING SIGNAGE
ALLOWABLE:
TWO SQ FT PER LINEAR FOOT OF BUILDING FRONTAGE
2 x 41'-3" = 82.5 SQ FT
PROPOSED:
TWO CANOPY FASCIA SIGNS @ 10.25 SQ FT = 20.50 SQ FT
TWO BUILDING SIGNS @ 4.30 SQ FT = 8.60 SQ FT
DOOR SIGN = 30.50 SQ FT
WASH SIGN = 6.77 SQ FT
TOTAL = 66.37 SQ FT



PROPOSED MAJOR ID SIGN
INTERNALLY ILLUMINATED, DOUBLE FACE (NOT TO SCALE)



THIS SIGNAGE PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SIGNS ARE NOT REVIEWED OR APPROVED ON SITE DEVELOPMENT PLANS.

SDP-00-82

RELEASED FOR

- PRELIMINARY ONLY
- BIDDING
- PERMIT
- CONSTRUCTION

DATE:

| 10/15/01 | 1 | REVISED C-STORE SIGN AND MAJOR ID SIGN |
|---|----------------------|---|
| DATE | NUMBER | REVISION DESCRIPTIONS |
| PERMIT INFORMATION CHART | | |
| SUBDIVISION NAME | ROUTE 108 COMMERCIAL | SECTION/AREA 1/1 |
| PLAT# OR L/F BLOCK# | 14126 1 | ZONING NT-COMM |
| TAX MAP NO. | 37 | ELECT DISTR 6 |
| WATER CODE | E-07 | SEWER CODE 2780000 |
| LOT/PARCEL # | B-1 | STREET ADDRESS 8251 SNOWDEN RIVER PARKWAY |
| TITLE CD13.DGN FOR AN EXXON STATION LOCATED AT 8251 SNOWDEN RIVER PARKWAY COLUMBIA, HOWARD COUNTY, MD 21045 | | |
| SITE DETAIL AND SIGNAGE PLAN | | |
| DESIGN BY: GHR | SCALE: AS NOTED | PROJECT NO.: 99460.01 |
| DRAWN BY: MIB | DATE: 6/19/00 | DRAWING NUMBER |
| CHECKED BY: GHR | APPROVED: TFW | 13 OF 15 |

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 10/20/00
 CHIEF-DIVISION OF LAND DEVELOPMENT 11/2/00
 DIRECTOR 11/6/00
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER 11-2-00
 HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 6/14/00

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226
 SURVEYORS Bel Air, Maryland Manassas, Virginia Warrenton, Virginia

6/20/00 DATE
 STATE OF MARYLAND
 TIMOTHY F. WHITTE
 PROFESSIONAL ENGR. NO. 19155

OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
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 DEVELOPER **EXXON** MOBIL FUELS MARKETING COMPANY
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