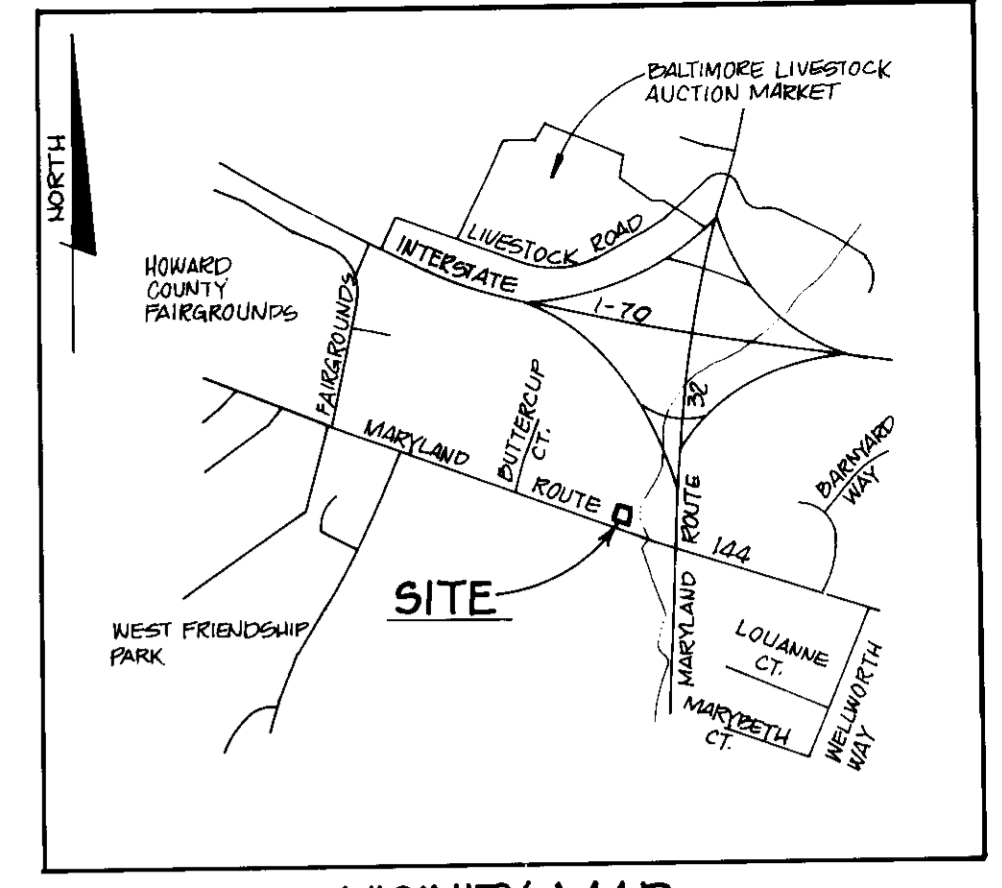


SHEET INDEX	
1.	SITE DEVELOPMENT PLAN
2.	SOILS AND SEDIMENT CONTROL PLAN
3.	DETAILS
4.	DRAINAGE AREA MAP AND SEDIMENT CONTROL NOTES AND DETAILS
5.	PRIVATE WATER AND SEWER PLAN
6.	LANDSCAPE PLAN

FOR PRIVATE SEWERAGE PLAN SEE SHEET NO. 5



VICINITY MAP  
SCALE: 1" = 200'

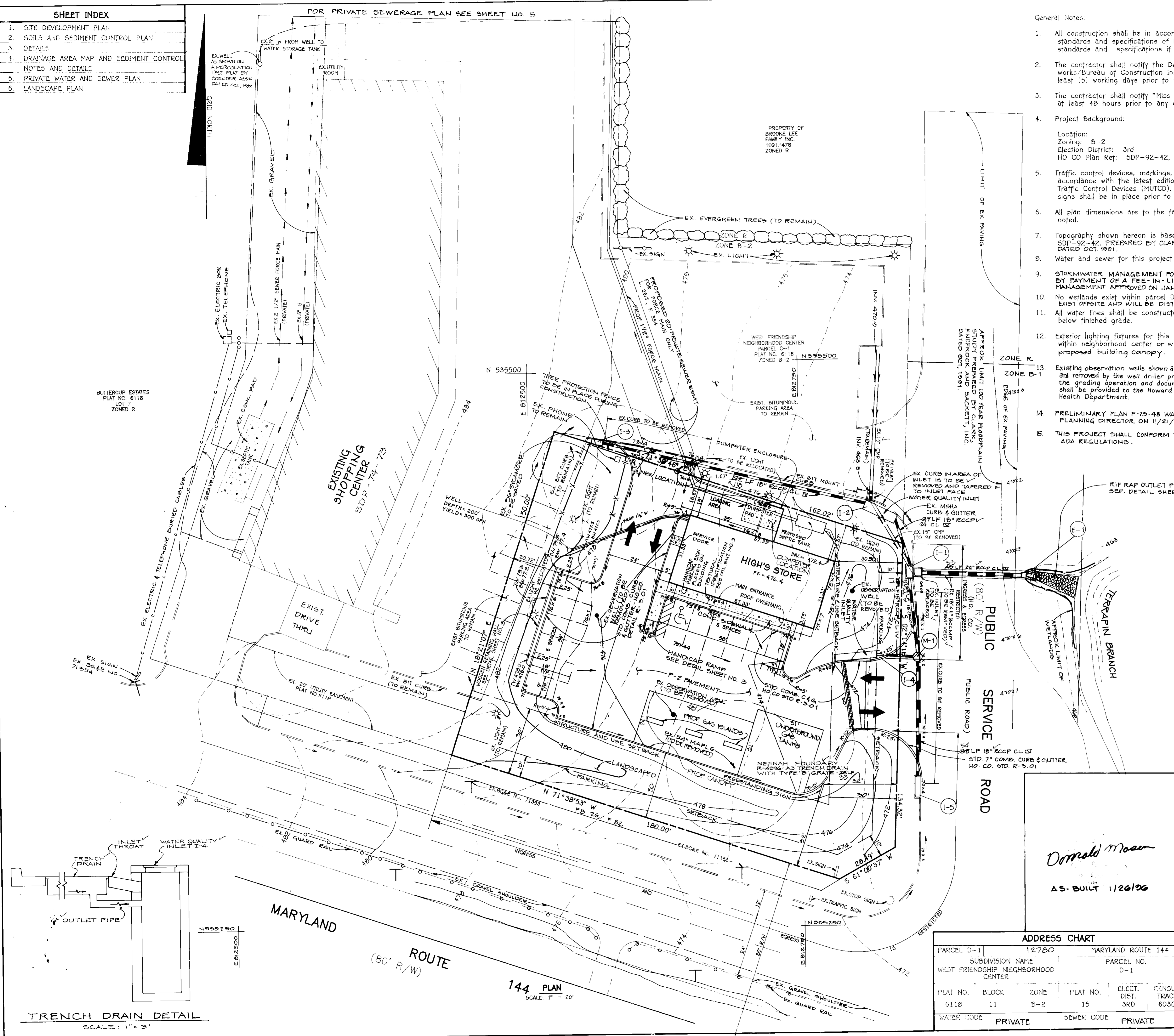
General Notes:

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at 313-3360 at least (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work at.
- Project Background:  
Location: Tax Map 15, Parcel 184  
Zoning: B-2  
Election District: 3rd  
HO CO Plan Ref: SDP-92-42, F-85-62, F-85-68, DA #4-34E
- 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 plan dimensions are to the face of curb unless otherwise noted.
- Topography shown hereon is based on information shown on SDP-92-42, PREPARED BY CLARK, FINEBROCK AND SACKETT DATED OCT. 1991.
- Water and sewer for this project will be private.
- STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED BY PAYMENT OF A FEE-IN-LIEU OF PROVIDING STORMWATER MANAGEMENT APPROVED ON JANUARY 1995.
- No wetlands exist within parcel D-1. WETLANDS AT E-1 EXIST OPPOSITE AND WILL BE DISTURBED.
- All water lines shall be constructed a minimum of 42" cover below finished grade.
- Exterior lighting fixtures for this project are existing within neighborhood center or will be contained under proposed building canopy.
- Existing observation wells shown are to be abandoned and removed by the well driller prior to commencing the grading operation and documentation of such shall be provided to the Howard County Environmental Health Department.
- PRELIMINARY PLAN P-75-48 WAS SIGNED BY THE PLANNING DIRECTOR ON 11/21/75.
- THIS PROJECT SHALL CONFORM TO THE CURRENT ADA REGULATIONS.

Site Analysis

TOTAL AREA OF SUBMISSION	0.63 AC +/-
PRESENT ZONING	B-2
PROPOSED USE	HIGH'S DAIRY STORE
AREA OF PROPOSED BUILDING	5,109 SF (RWDG) / 1152 (CANOPY)
BUILDING COVERAGE (INCLUDING ROOF OVERHANG)	3514 SF (26%)
NO. OF PARKING SPACES REQ'D	11 SPACE PER 200 SF = 11
PARKING PROVIDED INCLUDING (1) HANDICAP	12
TOTAL AREA OF PROPOSED PARKING LOT	10030 #
LANDSCAPE ISLANDS (PROPOSED)	627 # (6.6%)
GREEN SPACE PROVIDED ON SITE	12210 # (44%)
TOTAL AREA OF LANDSCAPE ISLANDS REQ.	474 # (5%)

NOTE: CANOPY LIGHTING SHALL BE SHIELDED AND DIRECTED SO THAT IT DOES NOT ILLUMINATE OR SHINE DIRECTLY ONTO ADJACENT PROPERTIES AND DOES NOT PRODUCE GLARE.



APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.	8-11-93
<i>John Bodur</i> COUNTY HEALTH OFFICER	DATE
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	7/2/93
<i>James J. Chen</i> DIRECTOR	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	7/26/93
<i>Richard Blood</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE

NO.	DATE	REVISION
1	6/19/95	ADD GASOLINE ISLANDS AND UNDERGROUND TANKS
2	12/30/94	ADD TRENCH DRAIN AT DRIVEWAY ENTRANCE

**TSA GROUP, INC.**  
planning • architecture • engineering • surveying  
8400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 468-8100

OWNER: NCN PARTNERSHIP 800 RIVER ROAD SYKESVILLE, MARYLAND 21784	PROJECT: <b>HIGH'S</b> (CONVENIENCE STORE) 800 RIVER ROAD SYKESVILLE, MARYLAND 21784
BUILDERS: HIGH'S OF BALTIMORE, INC. 2700 SISSON STREET BALTIMORE MARYLAND 21211	TITLE: <b>SITE DEVELOPMENT PLAN</b> SDP-92-42 F-85-62 DA91-10E F-85-68 F-75-48 DATE: DECEMBER 11, 1992 PROJECT NO. 0492 FEBRUARY 10, 1993
DES: DAM	DRN: JWG

ADDRESS CHART

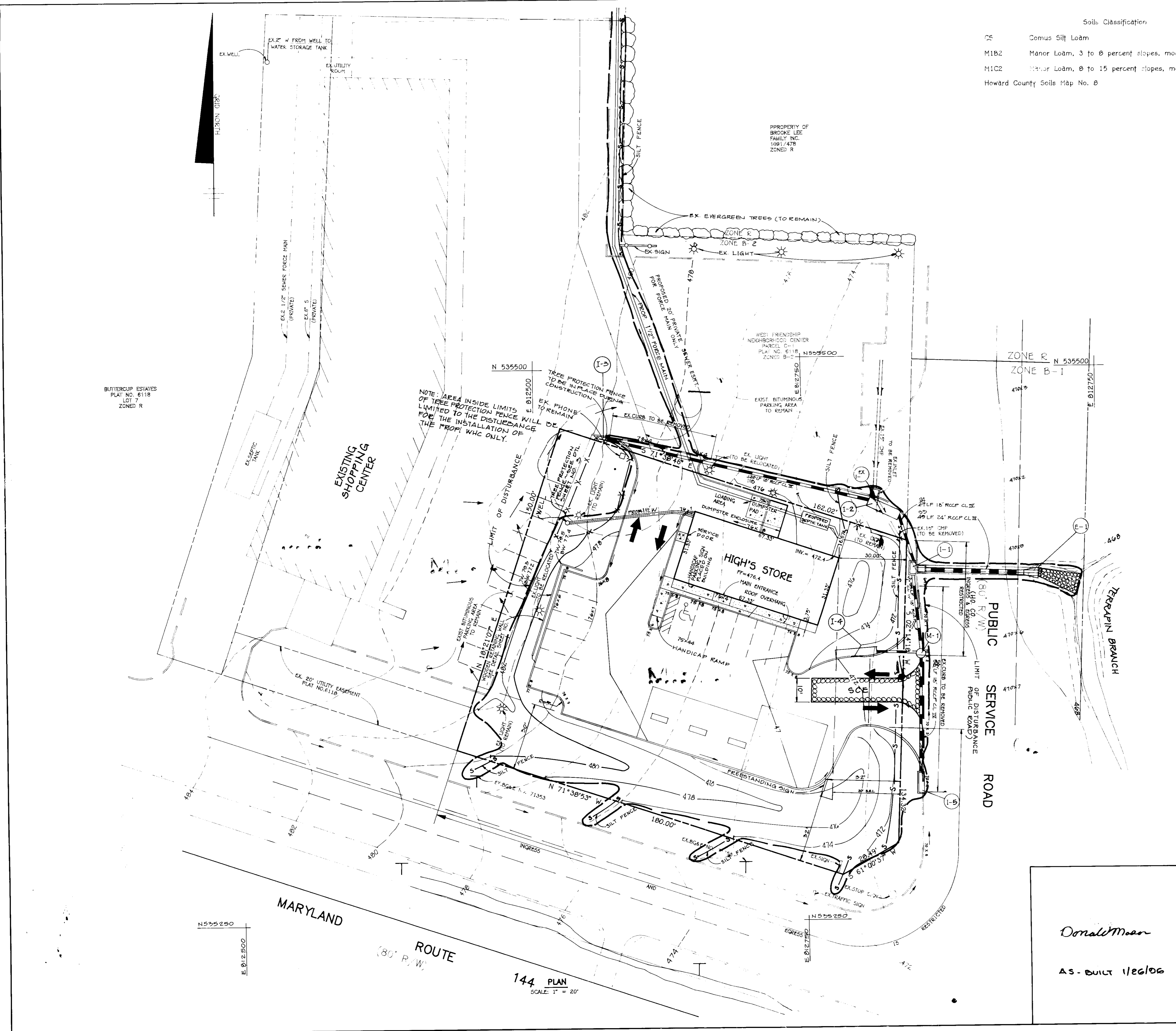
PARCEL D-1	12780	MARYLAND ROUTE 144
SUBDIVISION NAME		PARCEL NO.
WEST FRIENDSHIP NEIGHBORHOOD CENTER		D-1
PLAT NO.	BLOCK	ZONE
6118	11	B-2
PLAT NO.	ELECT. DIST.	CENSUS TRACT
15	3RD	6030
WATER CODE	PRIVATE	SEWER CODE
	PRIVATE	



TRENCH DRAIN DETAIL  
SCALE: 1" = 3'

144 PLAN  
SCALE: 1" = 20'

*Donald Moser*  
AS-BUILT 1/26/96



Soils Classification	Sequence of Construction
CE Comus Silt Loam	Day 1 Obtain a grading permit
M1B2 Manor Loam, 3 to 8 percent slopes, moderately eroded	Day 2-4 Install stabilized construction entrance, silt fence, and tree protection fence.
M1C2 Manor Loam, 8 to 15 percent slopes, moderately eroded	Day 5-15 Grade site to subgrade and stabilize in accordance with temporary seed bed notes.
Howard County Soils Map No. 8	Day 16-36 Install storm drain, water, sewer, and utilities and commence construction of building.
	Day 37-57 Install curb and gutter, sidewalk and paving.
	Day 58-65 Complete all remaining construction and stabilize in accordance with permanent seedbed notes.
	Day 66-70 Upon approval of the Howard County sediment control inspector, remove all remaining sediment control devices, and stabilize any disturbed areas in accordance with permanent seedbed notes.

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 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."	
DEVELOPER: <i>High's of Baltimore</i>	DATE: _____
BY THE ENGINEER: "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."	
ENGINEER: <i>John M. Elorriaga</i>	DATE: 2-11-92
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
<i>John L. Robertson</i>	DATE: 7/27/93
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS	
<i>James M. Hester</i>	DATE: 7/15/93
U.S. SOIL CONSERVATION SERVICE	
APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.	
<i>John J. Hester</i>	DATE: 8-11-93
COUNTY HEALTH OFFICER	
APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>James J. Hester</i>	DATE: 7/22/93
DIRECTOR	
<i>Charles J. Hester</i>	DATE: 7/26/93
CHIEF, BUREAU OF ENGINEERING	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>Richard Blood</i>	DATE: 8/16/93
DIRECTOR	
<i>Richard Blood</i>	DATE: 7/16/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	
NO. 6/19/95	ADD GASOLINE ISLANDS AND UNDERGROUND TANKS
NO. DATE	REVISION

<b>TSA GROUP, INC.</b> planning • architecture • engineering • surveying 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 485-8100	
OWNER: NCN PARTNERSHIP 800 RIVER ROAD SYKESVILLE, MARYLAND 21784	PROJECT: <b>HIGH'S</b> (CONVENIENCE STORE) PARCEL D-1 WEST FRIENDSHIP NEIGHBORHOOD CENTER LOCATION: TAX MAP 15, PARCEL 184 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
BUILDERS: HIGH'S OF BALTIMORE, INC. 2700 SISSON STREET BALTIMORE MARYLAND 21211	TITLE: <b>SOILS EROSION AND SEDIMENT CONTROL PLAN</b> SDP-92-42 F-95-82 BA91-10E F-25-06 P-73-48 DATE: DECEMBER 11, 1992 PROJECT NO. 0492 FEBRUARY 10, 1993 DRAWING 2 OF 6
DES: DAM	DRN: JWG
AS-BUILT 1/26/96	

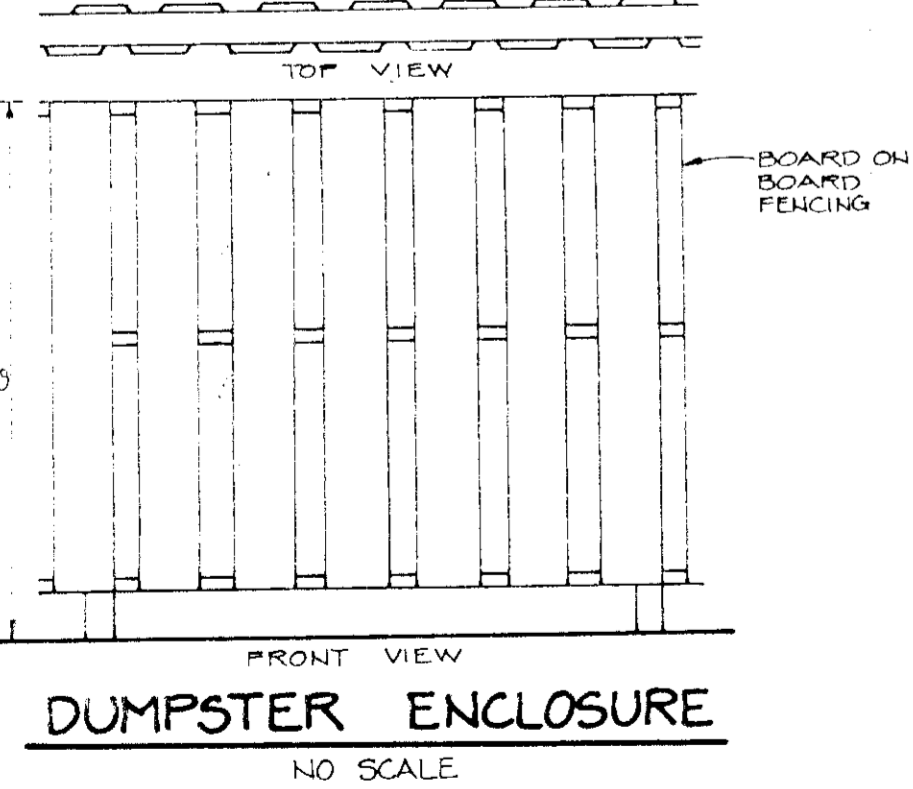
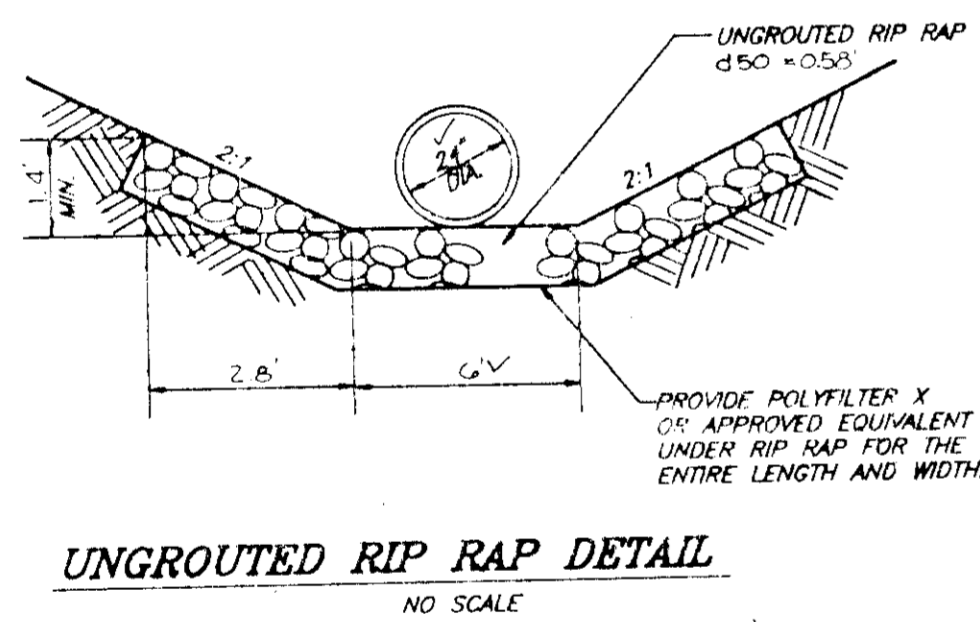
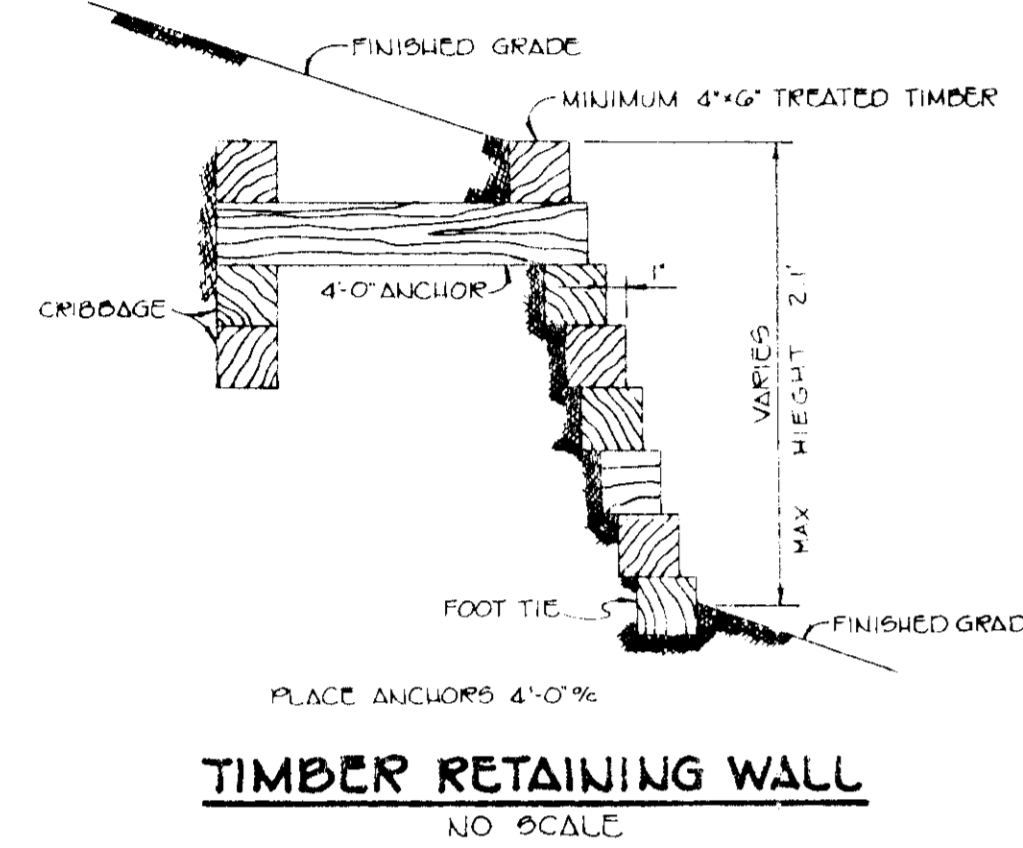
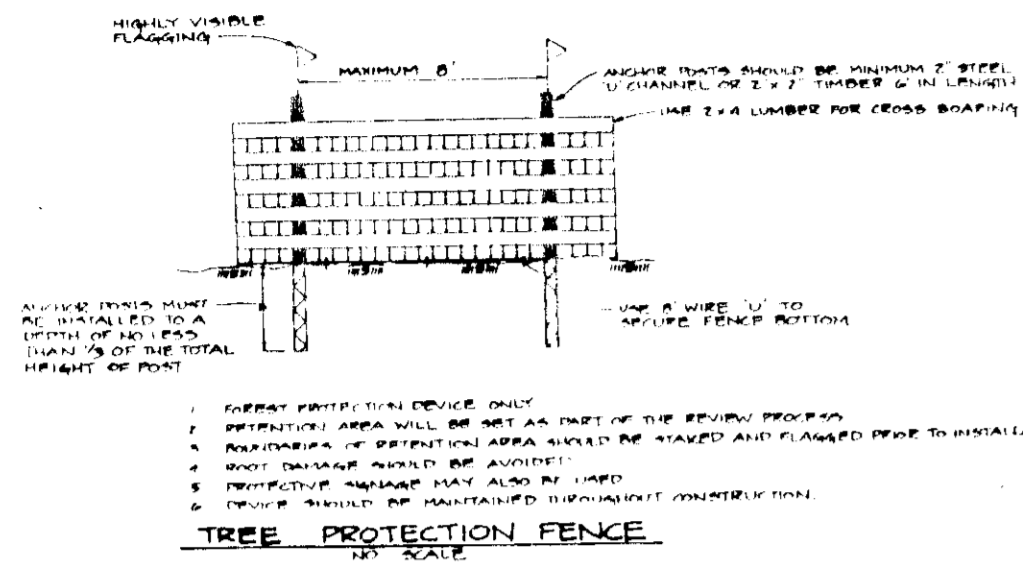
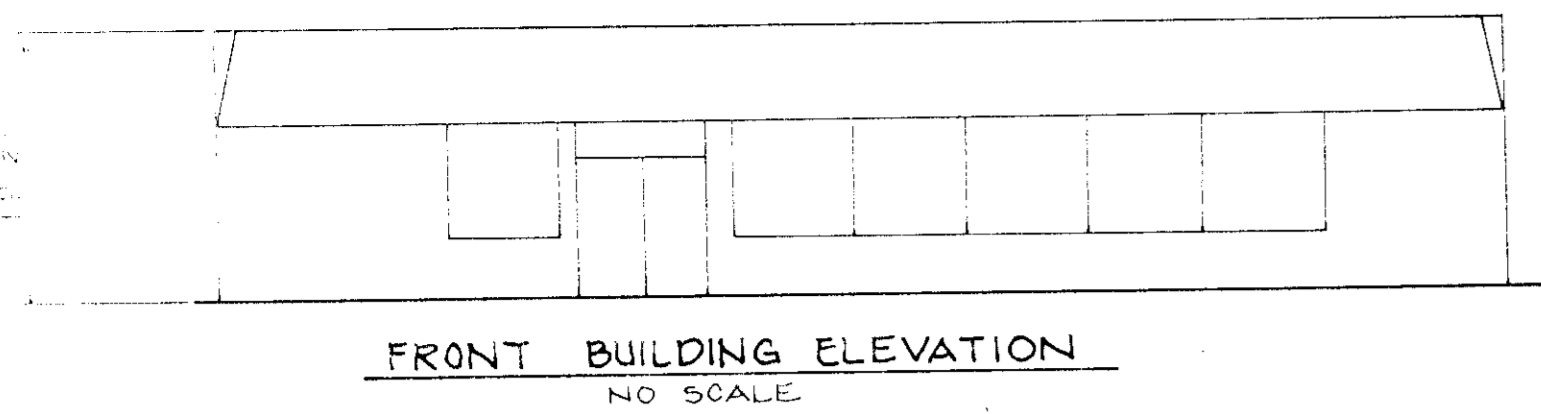
*Donald Mean*

AS-BUILT 1/26/96

MARYLAND ROUTE (80' R/W)

144 PLAN  
SCALE: 1" = 20'

AS-BUILT 1/26/96 SDP-93-54



**WATER QUALITY STRUCTURES**

**DESIGN AND GENERAL NOTES:**

- Use poured-in place concrete for the entire structure.
- Refer to Maryland State Highway Administration for materials and methods of construction.
- Wall thickness shall be as follows:  
Minimum 8 inches thick for the first 8'-0" of depth, 12 inch thick walls between 8'-0" and 12'-0" of depth and 14 inch thick walls for depth greater than 12'-0". Depth to be measured from top of top slab to crown of outgoing pipe.
- 2/c = 1,500 psi at 28 days.
- All reinforcing steel to be ASTM A615, GR. 60.
- For details concerning throat openings, refer to MCDOT Standard No. 55.

Throat Length	No. of Pipe Supports
10'	2
15'	3
20'	4
25'	5

Pipe supports to be spaced at 4'-0" O.C.

- For details not noted in this standard, refer to MCDOT Standard No. 55.
- The top 4 inches of walls may be brick masonry for leveling, if permitted. Brick masonry shall comply with the latest SBA Specification.
- When grate opening is used, refer to the appropriate SBA Standard for details. Details shall be shown on the plans.
- When inside width of structure is greater than 4'-0", reinforcing shall be provided as needed.
- When structure is subject to traffic loading, reinforcing shall be designed for the appropriate traffic loads. Design loads shall be indicated on the plans.
- All inlets and incoming pipes shall be checked for possible backwater or tailwater problems.

**CONSTRUCTION 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.

**INSPECTION NOTES:**

- Prior to start of construction on water quality structures, the MCDOT Inspector must be called 48 hours in advance at 251-2624.
- The MCDOT Inspector must be notified (251-2624) at each of the following stages:  
A. Approval of subgrade for footing.  
B. Footing formed and steel set prior to pouring.  
C. Structure sides formed and steel set prior to pouring.  
D. Prior to top slab and manhole being set, MCDOT Inspector must check structure and all debris and silt in structure removed.  
E. When site is permanently stabilized and sediment control measures to protect inlet are to be removed.

**MAINTENANCE NOTES (WATER QUALITY STRUCTURE MAINT)**

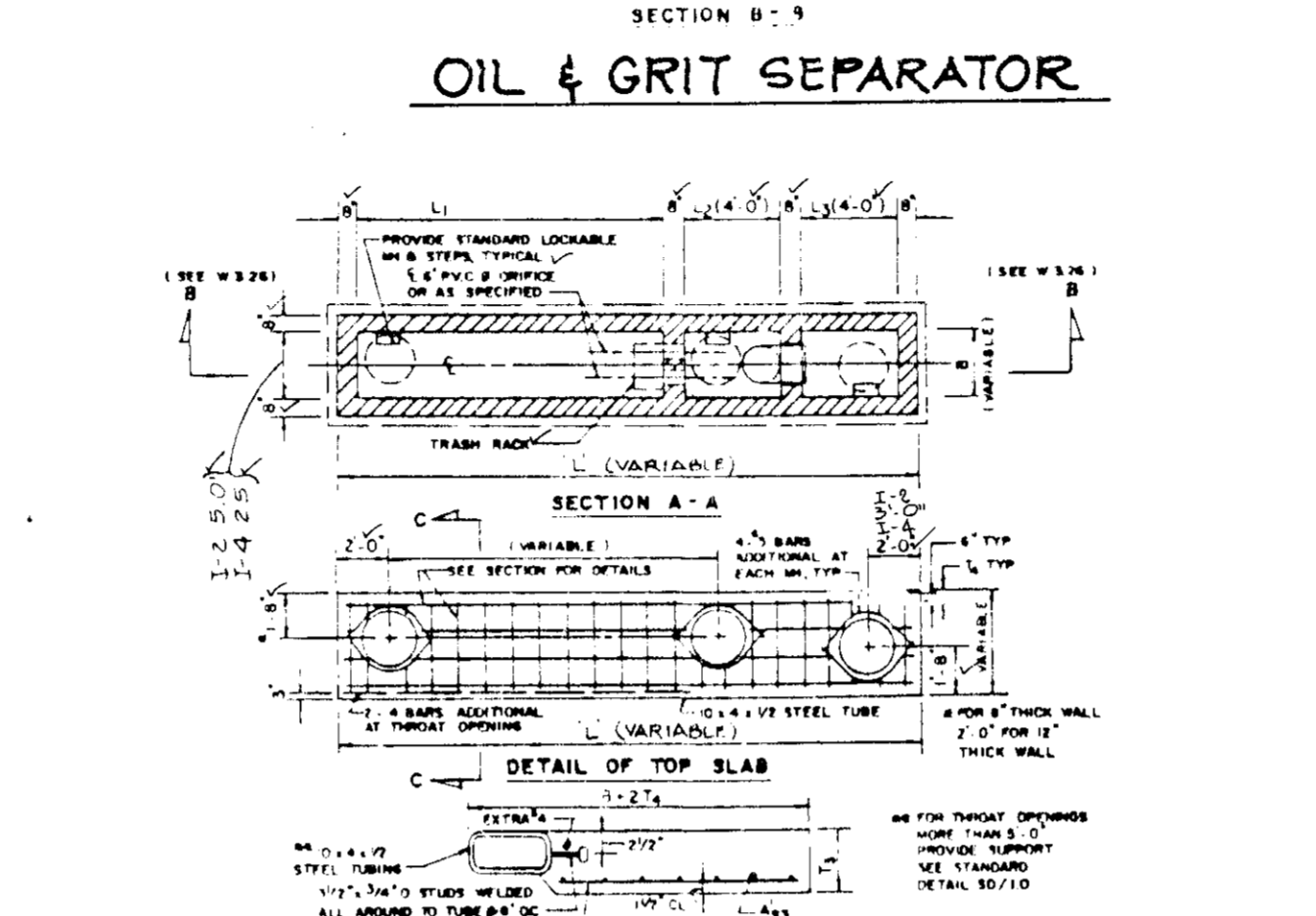
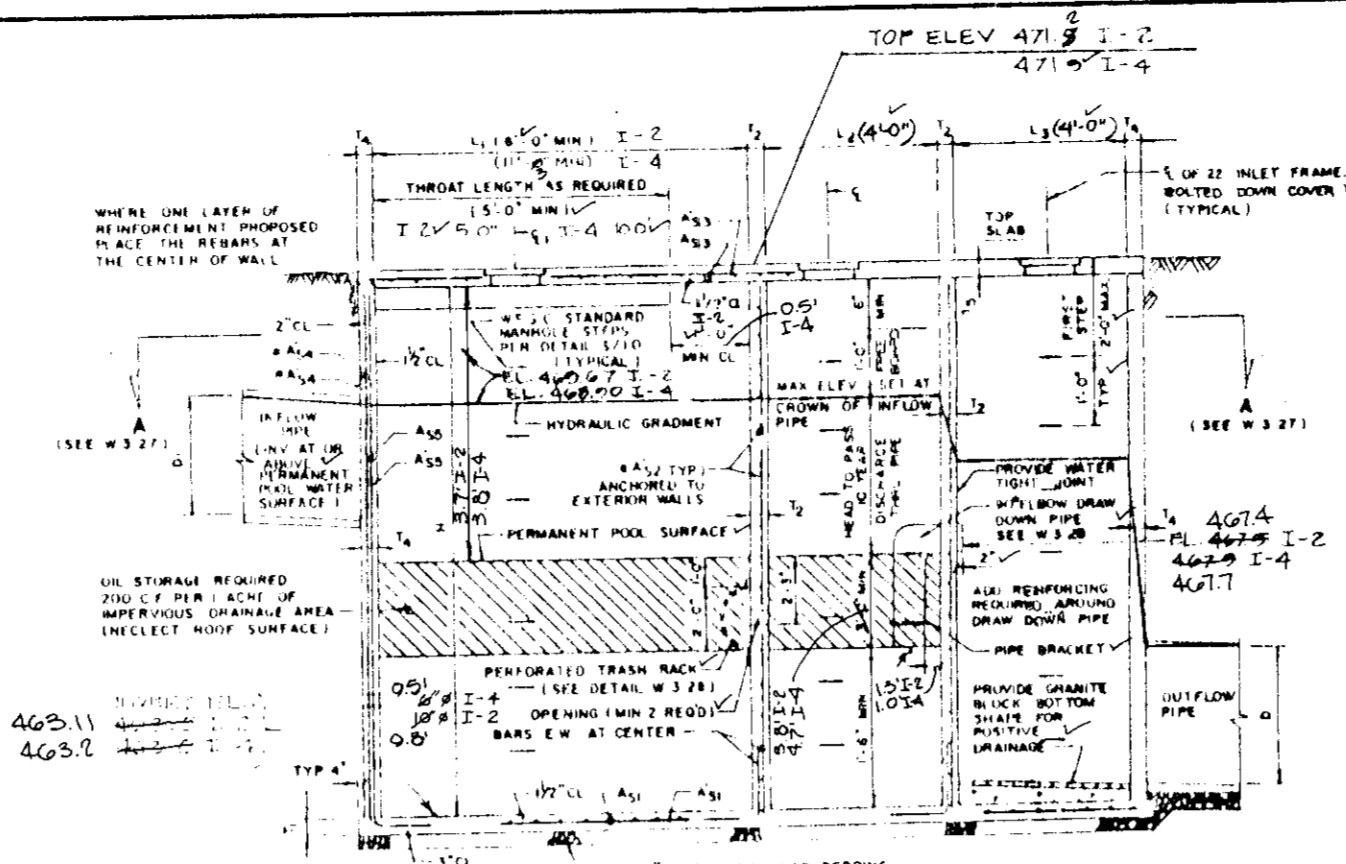
- Water Quality Structures will require periodic cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
- Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management group.
- The disposal of the liquid and solid matter should be as follows:  
A. 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.  
B. The solid material shall be landfilled in an approved sanitary landfill.
- The inlet pipes, trash racks, grates, and structural parts shall be repaired as needed.

Check-Off List to be Placed on Stormwater Management Oil/Grit Separator Plans

Sequence of Construction and Inspector's Check-Off List for SK Oil/Grit Separators

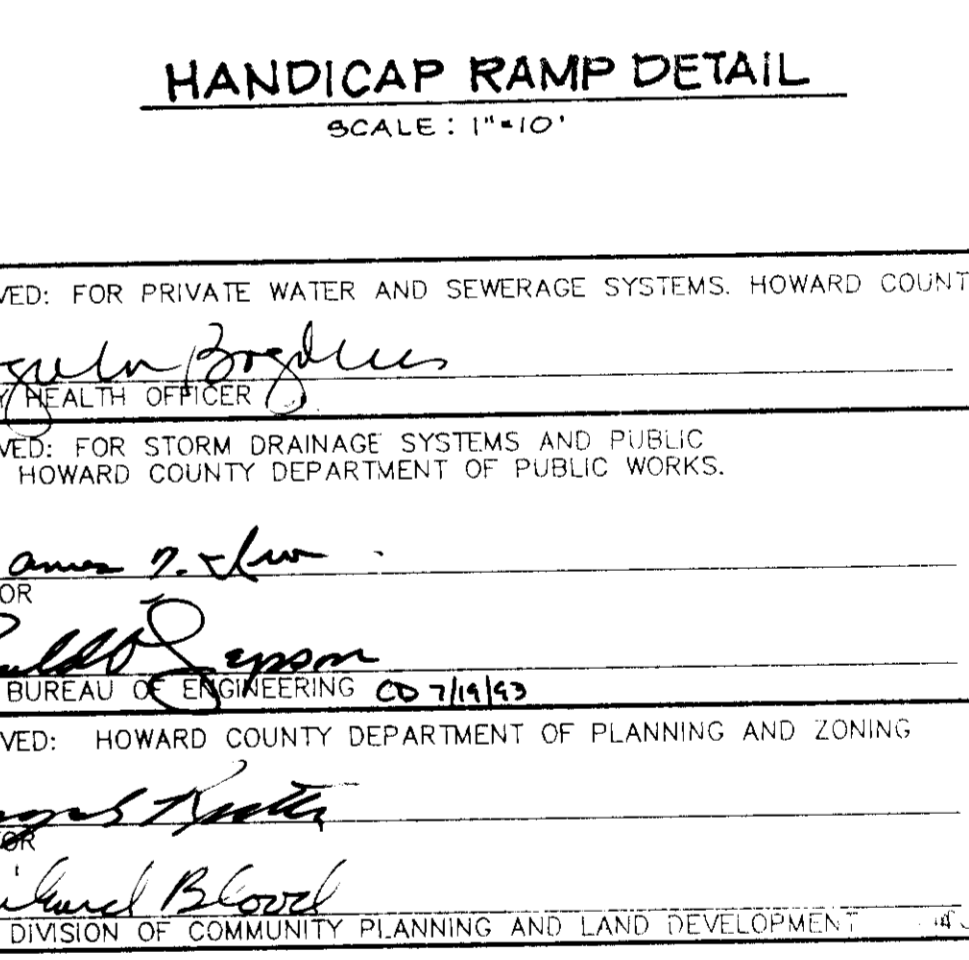
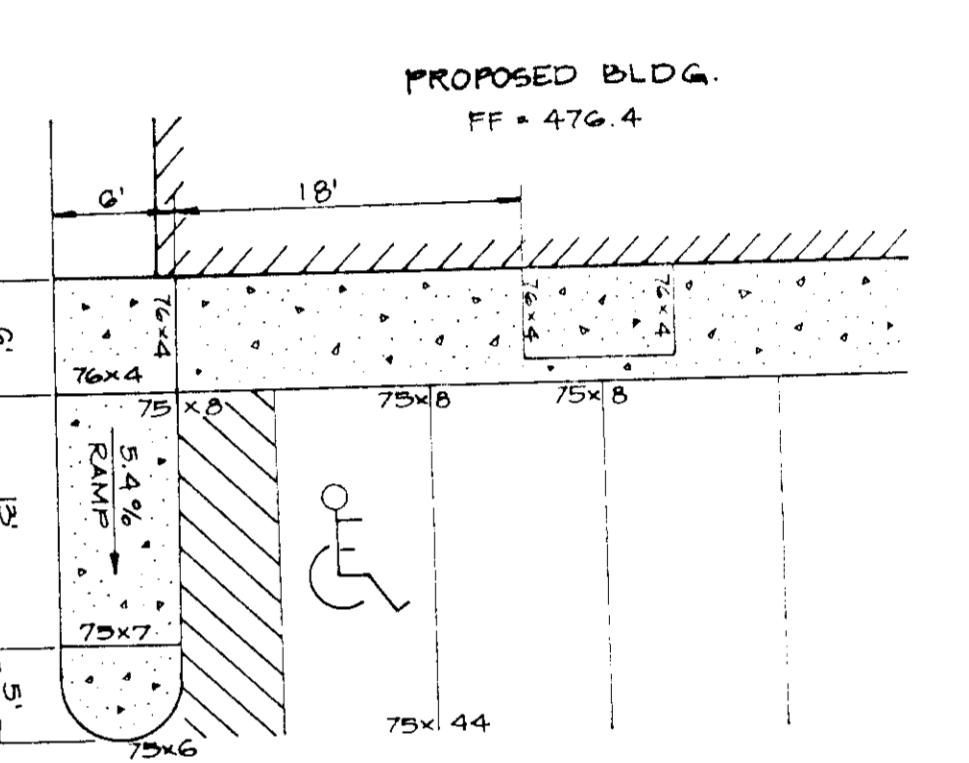
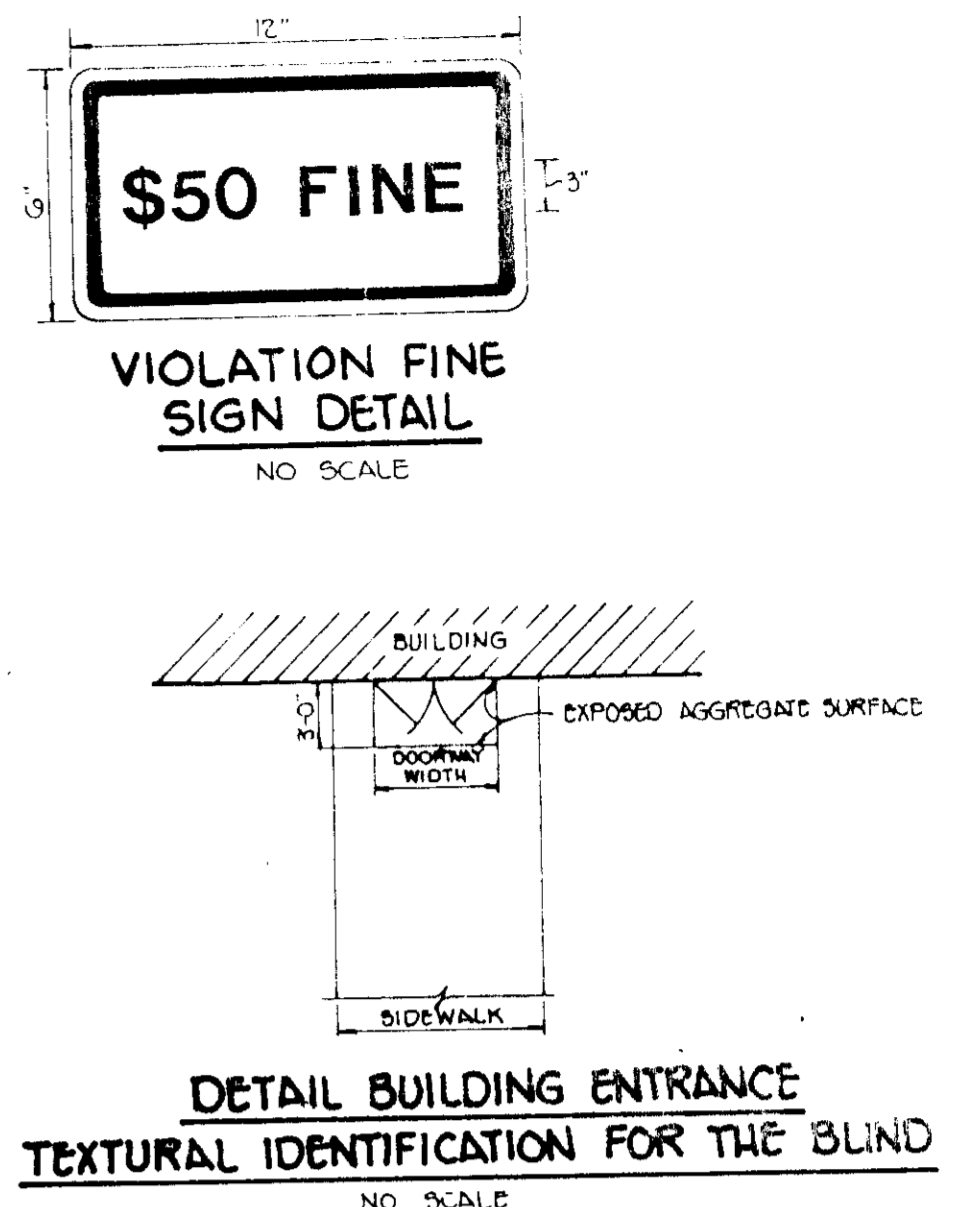
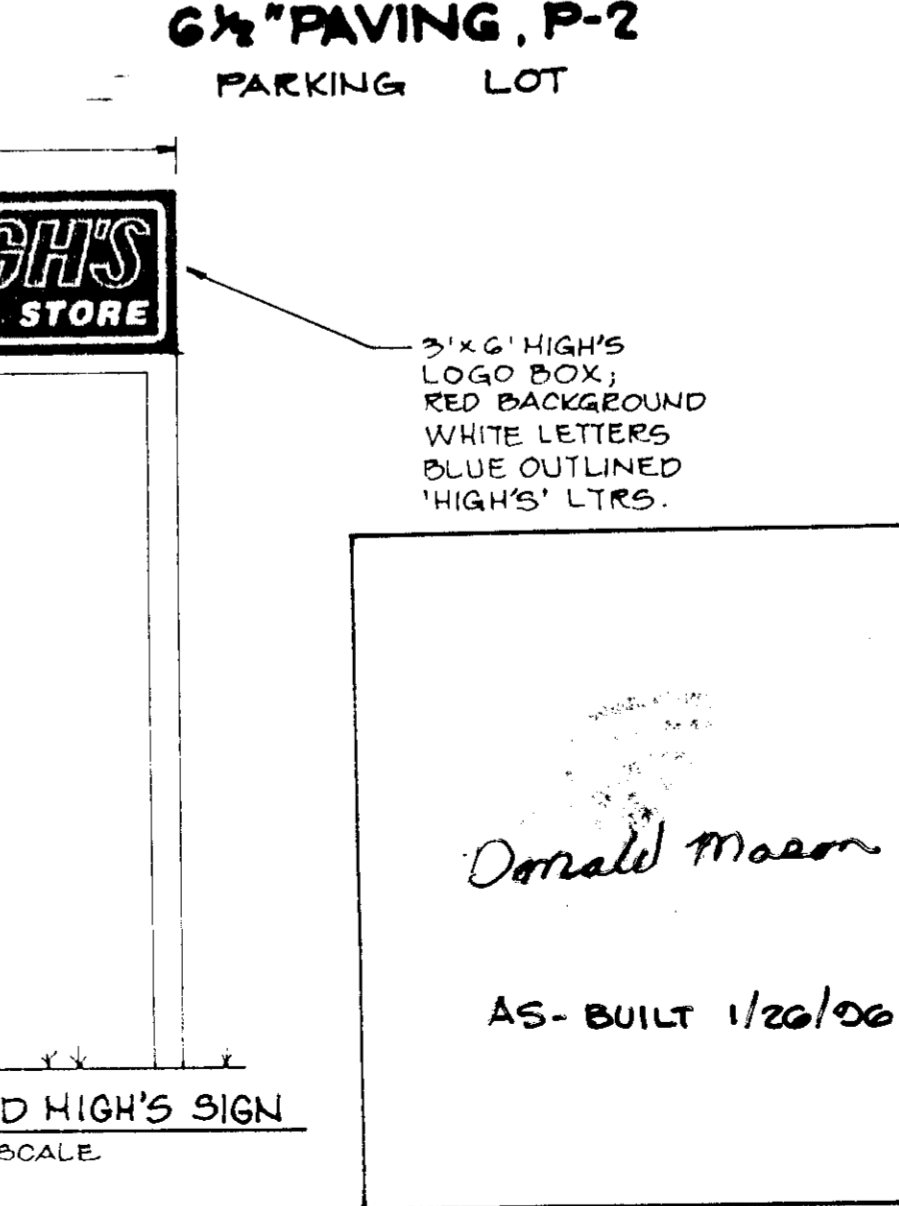
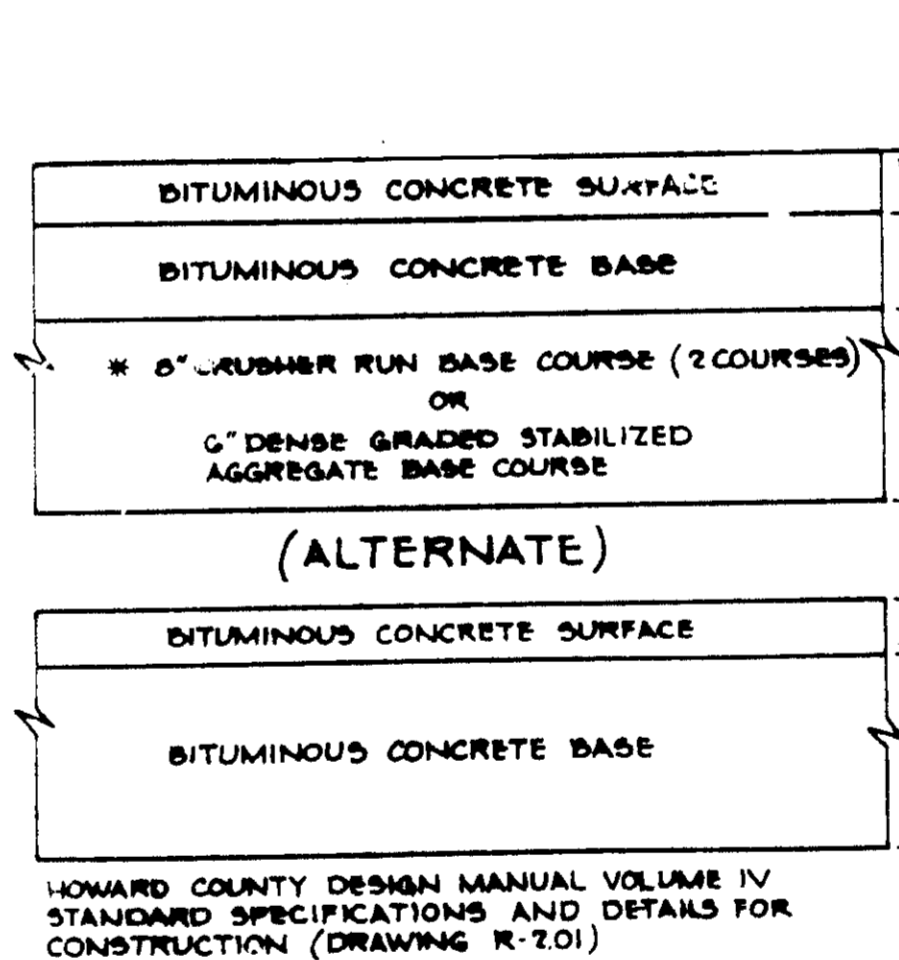
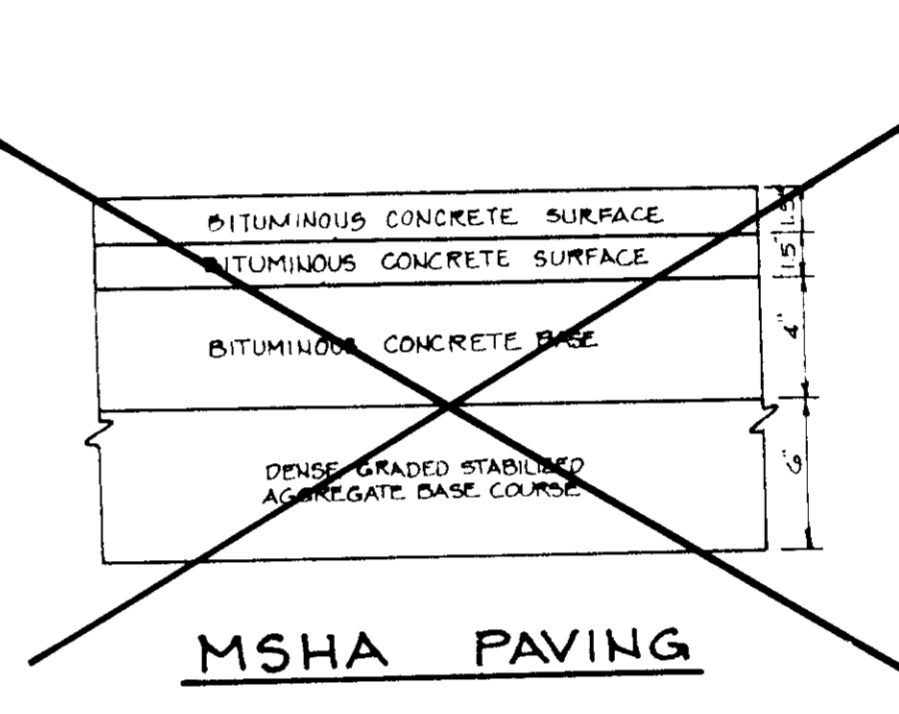
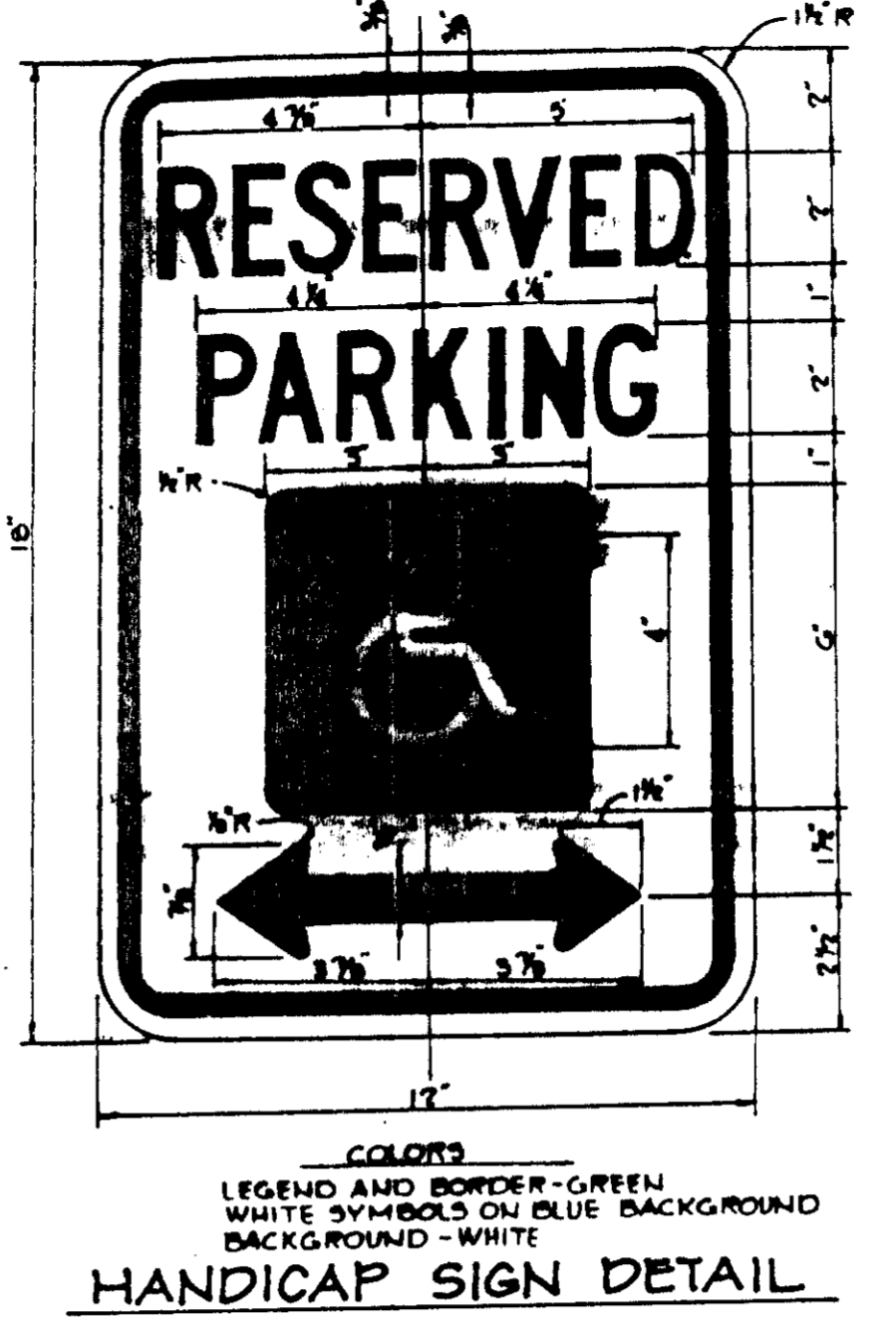
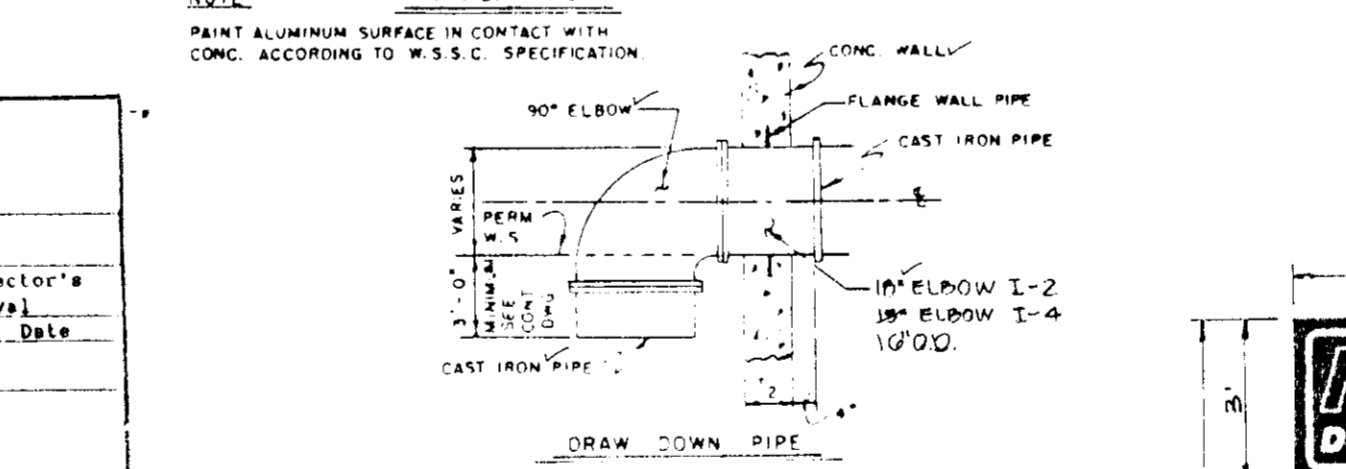
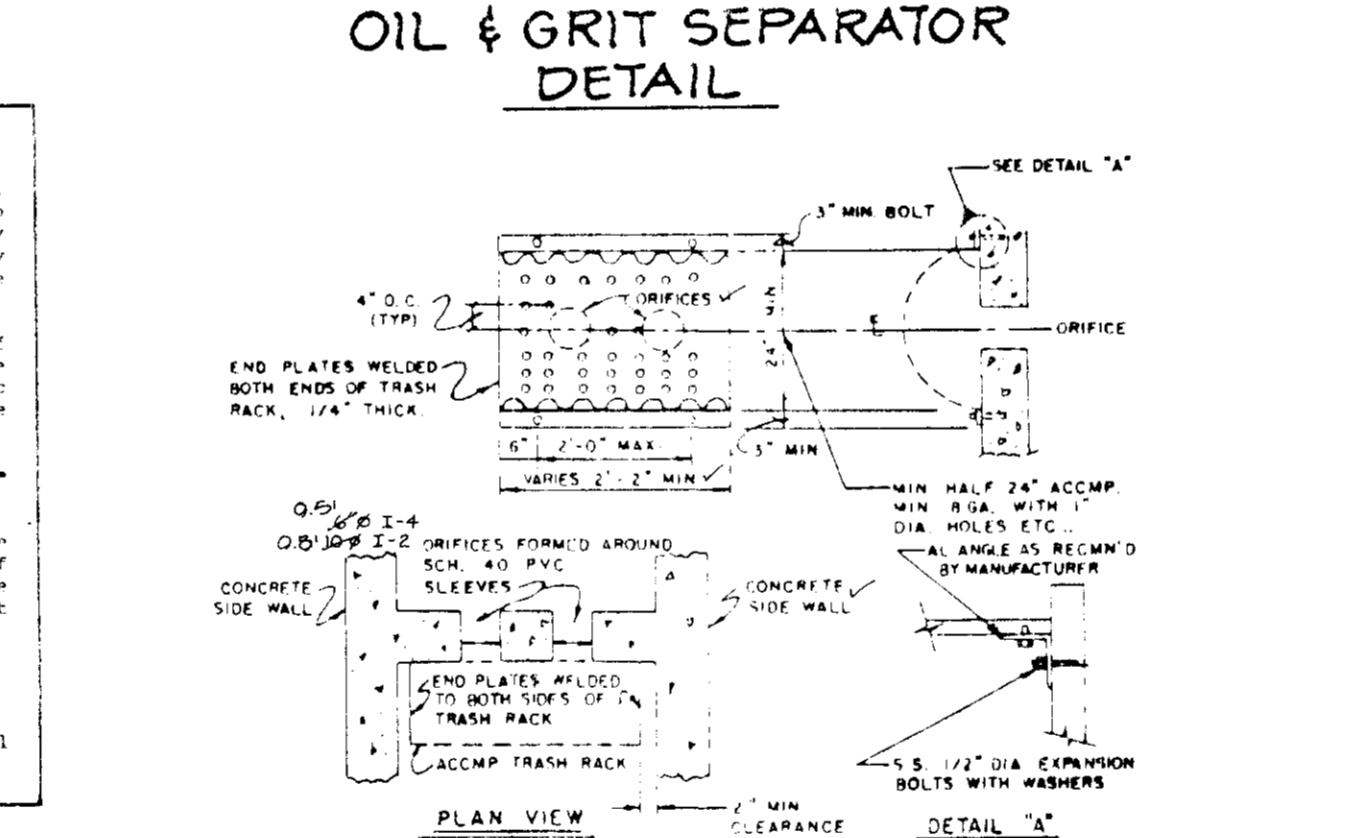
Stage	Developer's/Engineer Approval		DEP Inspector's Approval	
	Initials	Date	Initials	Date
Pre-construction meeting.*				
Installation of oil/grit separator and associated storm drainage.*				
a. Footing subgrade prior to pouring.*				
b. Footing formed and steel set prior to pouring.*				
c. Structure sides formed and steel set prior to pouring.*				
d. Prior to top slab and manholes being set on, MCDOT Inspector must inspect all cast-in-place and pre-cast structures for proper assembly.*				
e. Site is permanently stabilized, sediment control measures removed and all sediment and debris removed from the structure.*				
f. Final inspection.*				

NOTE: See Construction Specifications for detailed requirements.  
\*Mandatory notification/approval of DEP Inspector prior to proceeding with next stage.  
Call 251-2629 prior to 12:00 noon on the preceding day to arrange for notification/inspection.  
4035H-4 (Rev. 2-87)



STRUCTURE	LIMITS	BASE SLAB	INLET WALLS	TOP SLAB	OUTER WALLS
I-2	0'-0" to 1'-0"	4" CONC	4" CONC	4" CONC	4" CONC
I-4	0'-0" to 1'-0"	4" CONC	4" CONC	4" CONC	4" CONC

CAST IN PLACE CONCRETE. C = 4000 PSI @ 28 DAYS. REINFORCING STEEL IN ACCORDANCE WITH ASTM A 615 GRADE 60.



APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.  
 COUNTY HEALTH OFFICER: *John J. Jones* 8-11-93  
 APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR: *James S. New* 7/27/93  
 CHIEF, BUREAU OF ENGINEERING: *Paul D. Brown* 7/26/93  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 DIRECTOR: *Richard Blount* 8/16/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *Richard Blount* 8/16/93

NO.	DATE	REVISION
1	6-16-94	REVISE ORIFICE SIZE I-4

TSA GROUP, INC.  
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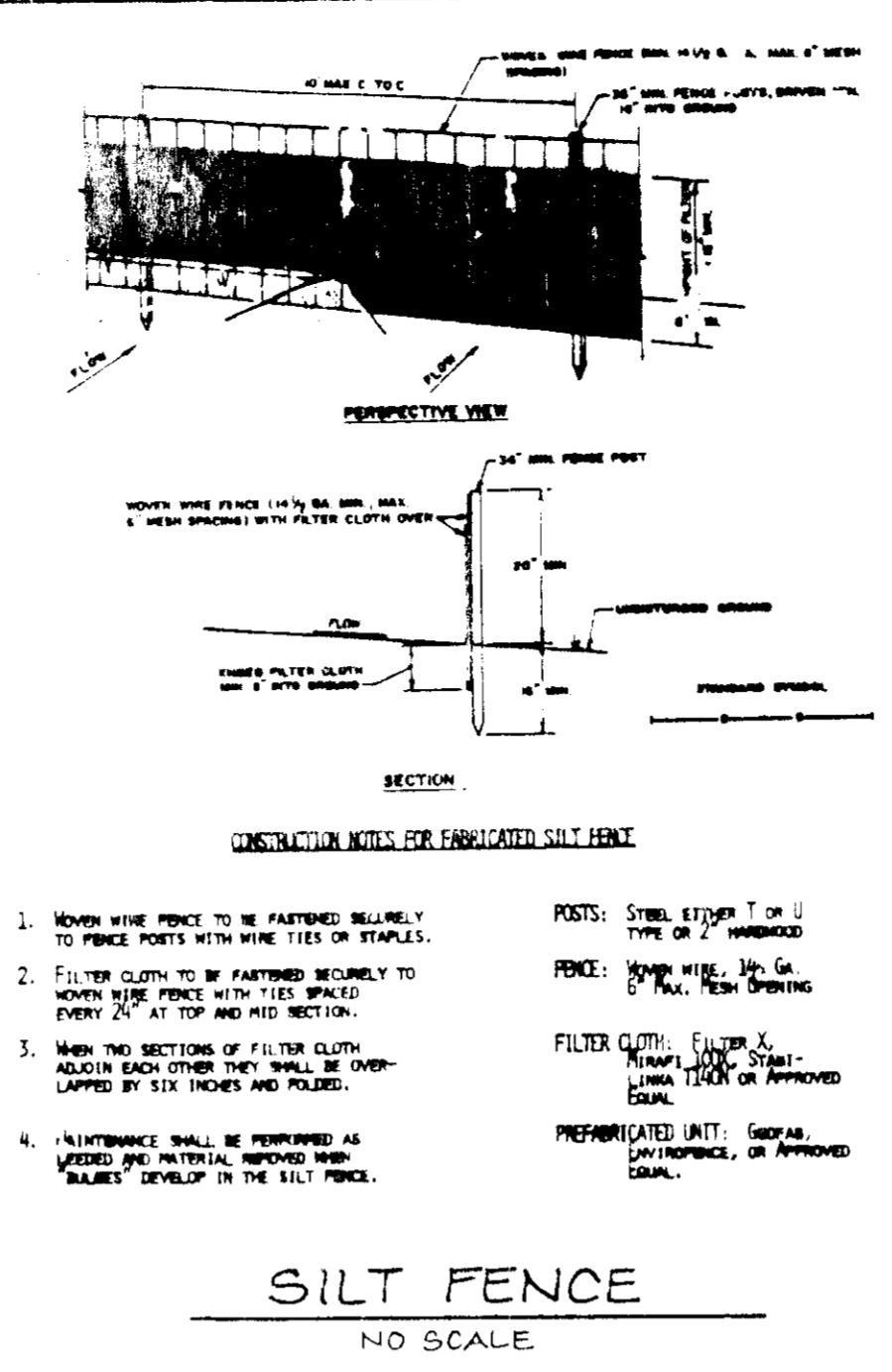
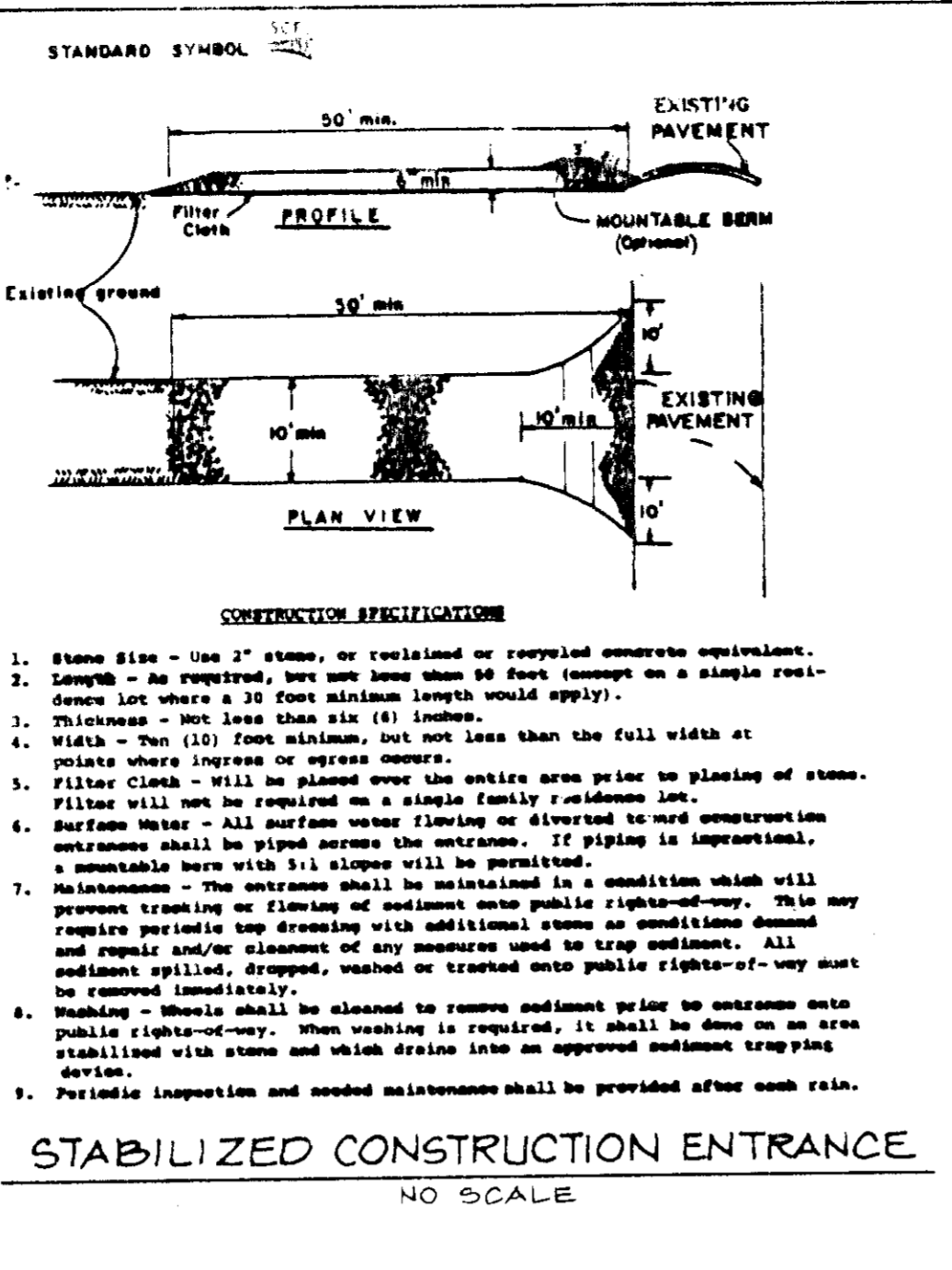
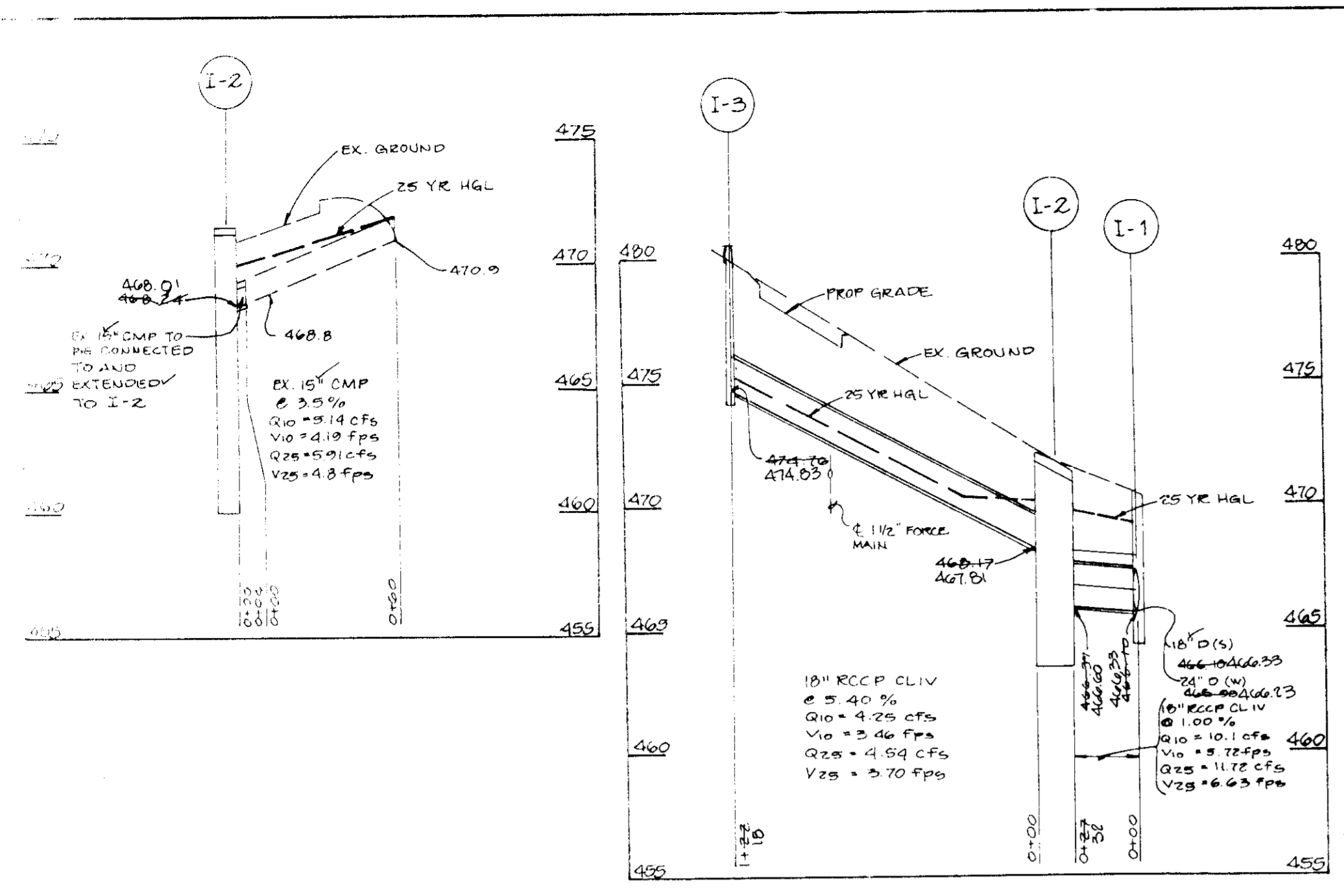
OWNER: NCN PARTNERSHIP  
 900 RIVER ROAD  
 SYKESVILLE, MARYLAND 21784

PROJECT: HIGH'S  
 PARCEL D-WEST FRIENDSHIP NEIGHBORHOOD CENTER  
 LOCATION: TAX MAP 15, PARCEL 184  
 3RD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

BUILDERS: HIGH'S OF BALTIMORE, INC.  
 2700 SISSON STREET  
 BALTIMORE MARYLAND 21211

TITLE: DETAILS  
 SDP-92-42, E-95-02, BA01-10E, E-03-10A, P-12-10A  
 DATE: DECEMBER 11, 2005  
 PROJECT NO. 0492  
 FEBRUARY 10, 2006

DES: DAM DRN: J.W.G. SCALE: AS SHOWN DRAWING: 3 OF 3



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

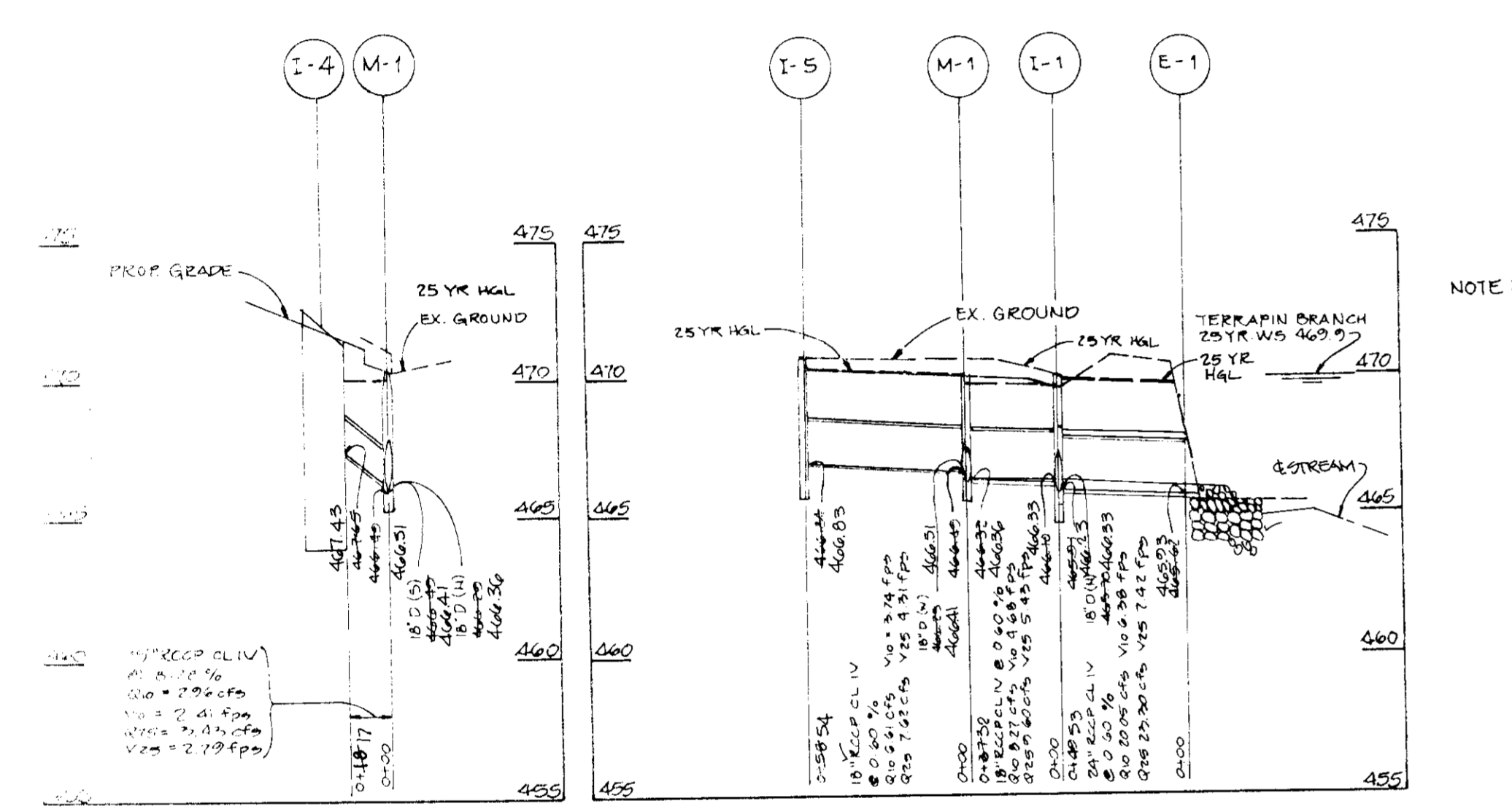
**SILT FENCE**  
NO SCALE

**CONSTRUCTION SPECIFICATION**

- Stone Size - Use 2" stone, or crushed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or directed to work construction entrance shall be piped across the entrance. If piping is impractical, a removable berm with 5:1 slope will be installed in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or placement of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TC ELEV.	REMARKS
I-1	A-5	18" D (5)	466.10	470.7	HO CO STD SD 4.01
I-2	WATER QUALITY INLET 5" THROAT	18" D (4)	466.10	471.2	SEE DETAIL SHEET 3
I-3	A-5 W/DEFT	18" D (4)	466.10	470.5	HO CO STD SD 4.01
I-4	WATER QUALITY INLET 10" THROAT	18" D (4)	466.10	471.0	SEE DETAIL SHEET 3
I-5	A-10	18" D (4)	466.10	471.0	HO CO STD SD 4.02
M-1	SHALLOW MANHOLE	18" D (4)	466.10	470.5	MSHA 365.0

↑ ELEVATION AT RIM OR GRATE



**STORM DRAIN PROFILES**  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

**NOTE:** TC IN TERRAPIN BRANCH IS AT 1:26 HR AND TC OF STORM DRAIN IS AT 0:26 HR THEREFORE TOP OF PIPE WAS ASSUMED FOR HGL.

**CONSTRUCTION NOTES FOR FACILITATED SILT FENCE**

- MOVING WIRE FENCE TO BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOOD WIRE FENCE WITH TIES SPACED EVERY 2' AT TOP AND MID SECTION.
- NEED TWO SECTIONS OF FILTER CLOTH ABOUT EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLYED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO MAINTAIN WIRE FENCE BLANKET DEVELOP IN THE SILT FENCE.

**TEMPORARY SEEDING PREPARATION**

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

**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS:** APPLY 100 LBS PER ACRE OF 10-10-10 FERTILIZER (14 1/2/10000) TO FEET.

**SEEDING:** FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 1 THROUGH NOVEMBER 31, SEED WITH 20 LBS PER ACRE OF ANNUAL RYE (13.2 1/2/10000) TO FEET. FOR THE PERIOD MAY 1 THROUGH AUGUST 31, SEED WITH 3 LBS PER ACRE OF WHEAT (10/5000) TO FEET. FOR THE PERIOD SEPTEMBER 1 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 SOE.

**SEEDING:** APPLY 1-1/2 TO 2 TONS PER ACRE (16 TO 20 1/2/10000) TO FEET OF DRYMATIC SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE OF 10-10-10 FERTILIZER (14 1/2/10000) ON FLAT AREAS. ON SLOPES 5 FT. OR HIGHER, USE 140 GALLONS PER ACRE OR 94/10000 TO FEET FOR ANCHORING.

REFER TO THE 1983 MANUAL STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR SITE AND PERIODS OF SEEDING.

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 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.

DEVELOPER: HIGH'S OF BALTIMORE. DATE: 1/13/93

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

ENGINEER: JOHN M. FLORRAGA, P.E. #16891 DATE: 1/11/93

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

HOWARD S.C.D. DATE: 1/13/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE DATE: 1/13/93

APPROVED FOR PRIVATE WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.

COUNTY HEALTH OFFICER: [Signature] DATE: 8-11-93

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR: [Signature] DATE: 7/22/93

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 7/26/93

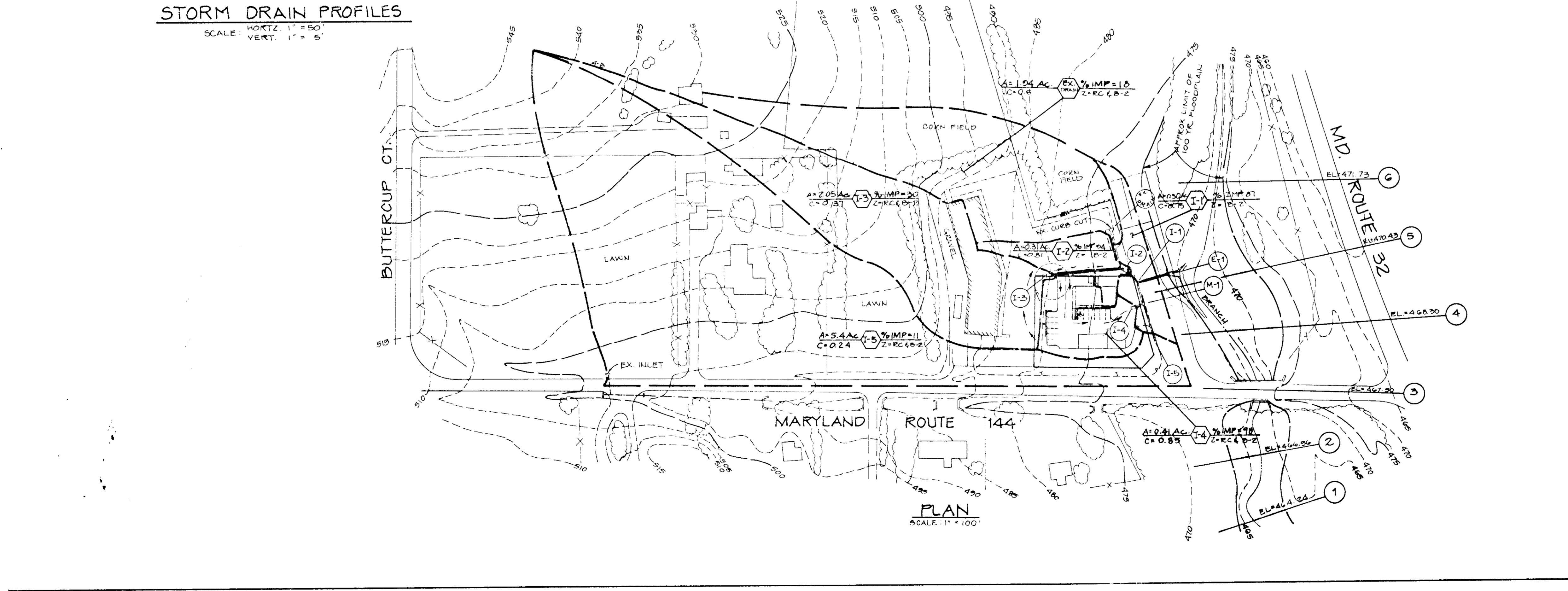
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: [Signature] DATE: 6/16/93

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 8/16/93

NO.	DATE	REVISION
1	6/19/93	ADD GASOLINE ISLANDS AND UNDERGROUND TANKS
2	NO DATE	REVISE I-1 AND I-5 TO HO CO STD DETAILS
3	NO DATE	REVISION

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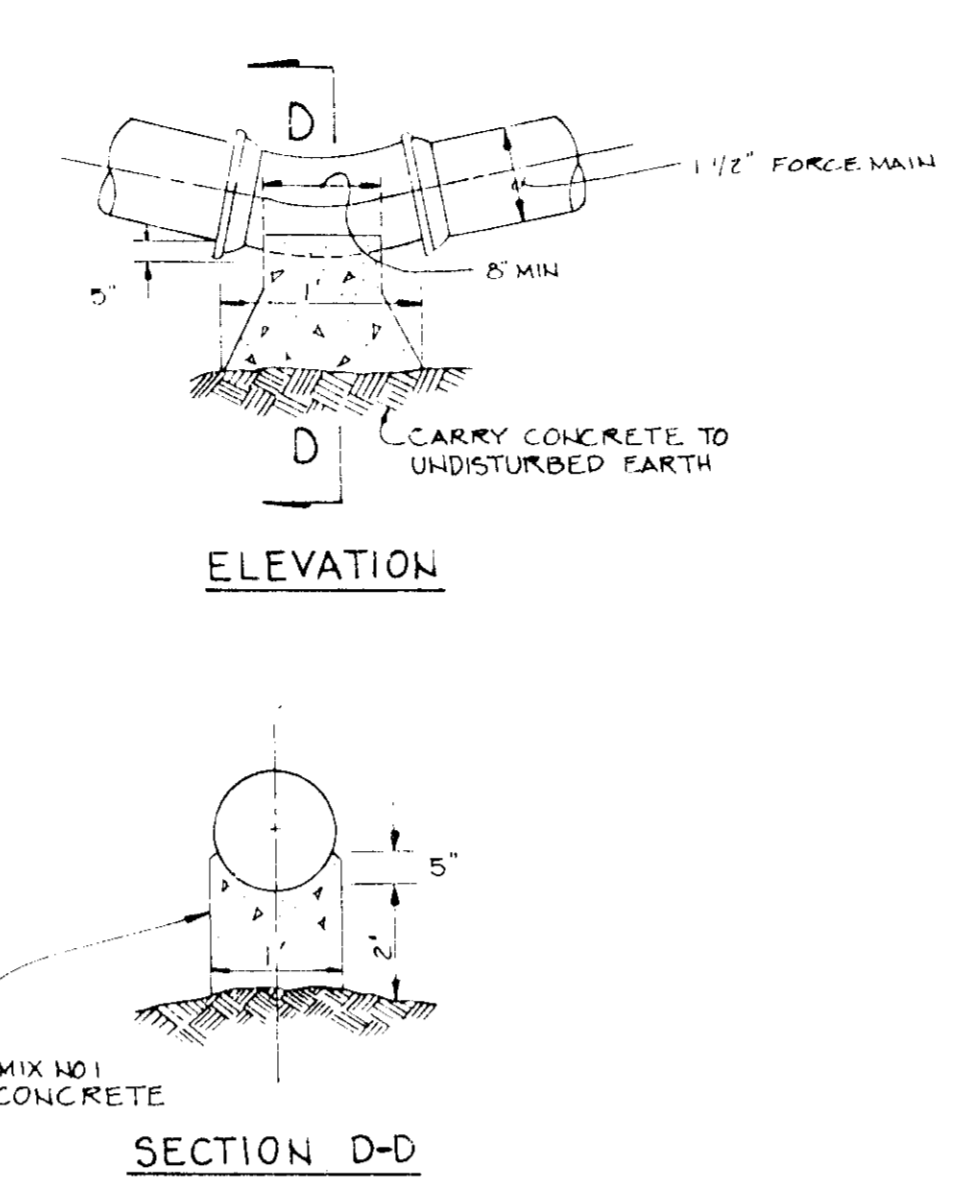
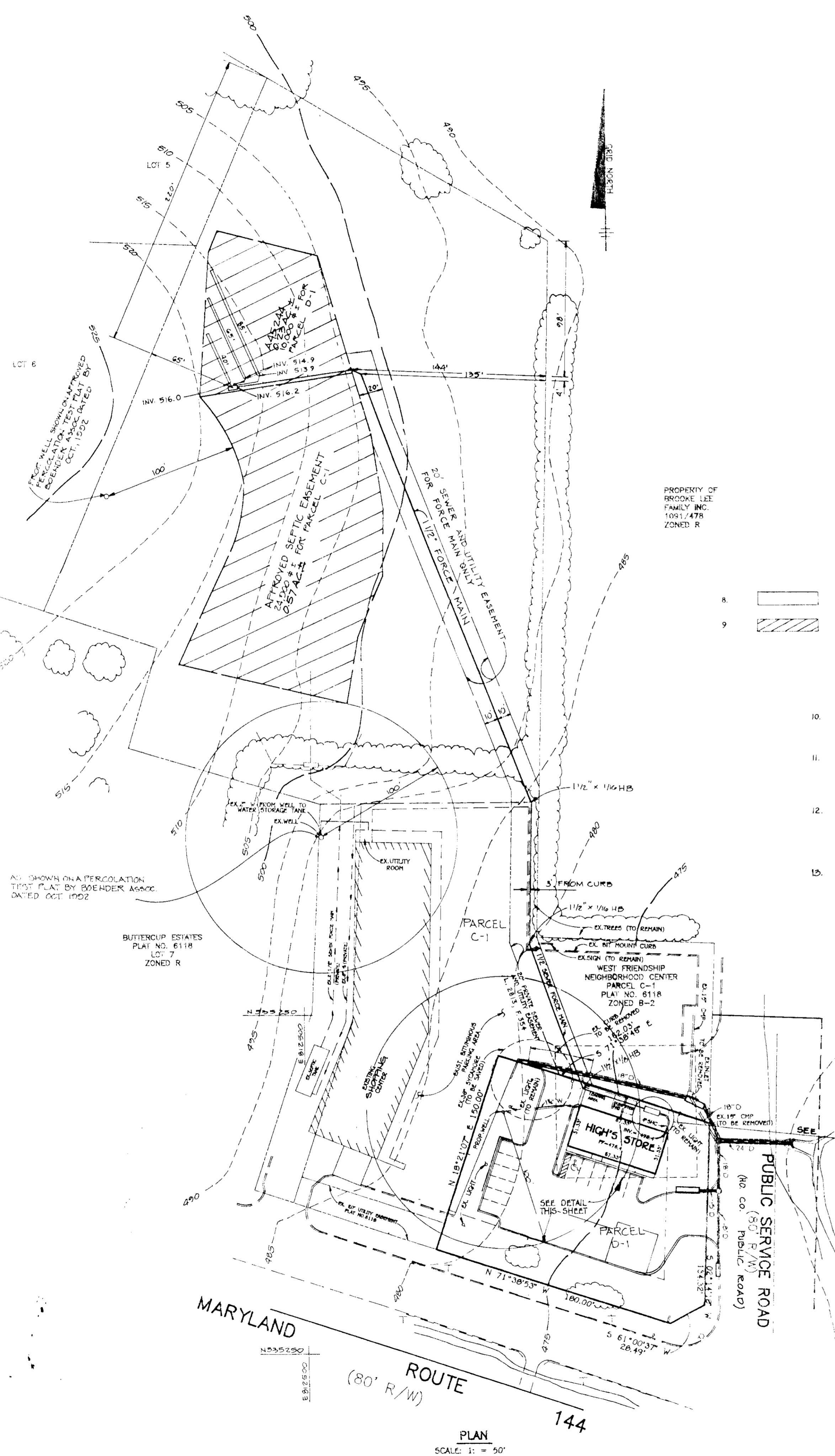
OWNER: NCN PARTNERSHIP  
800 RIVER ROAD  
SYKESVILLE, MARYLAND 21784

PROJECT: HIGH'S (CONVENTS HILL STORGE)  
PARCEL D-1 WEST FRIENDSHIP NEIGHBORHOOD CENTER  
LOCATION: TAX MAP 15, PARCEL 18-4  
3RD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

BUILDERS: HIGH'S OF BALTIMORE, INC.  
2700 SISSON STREET  
BALTIMORE MARYLAND 21211

TITLE: DRAINAGE AREA MAP AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS  
SDP-92-42, P-85-62, BAO-108, P-23-06, P-73-48  
DATE: DECEMBER 11, 1992  
FEBRUARY 10, 1993  
PROJECT NO. 0492

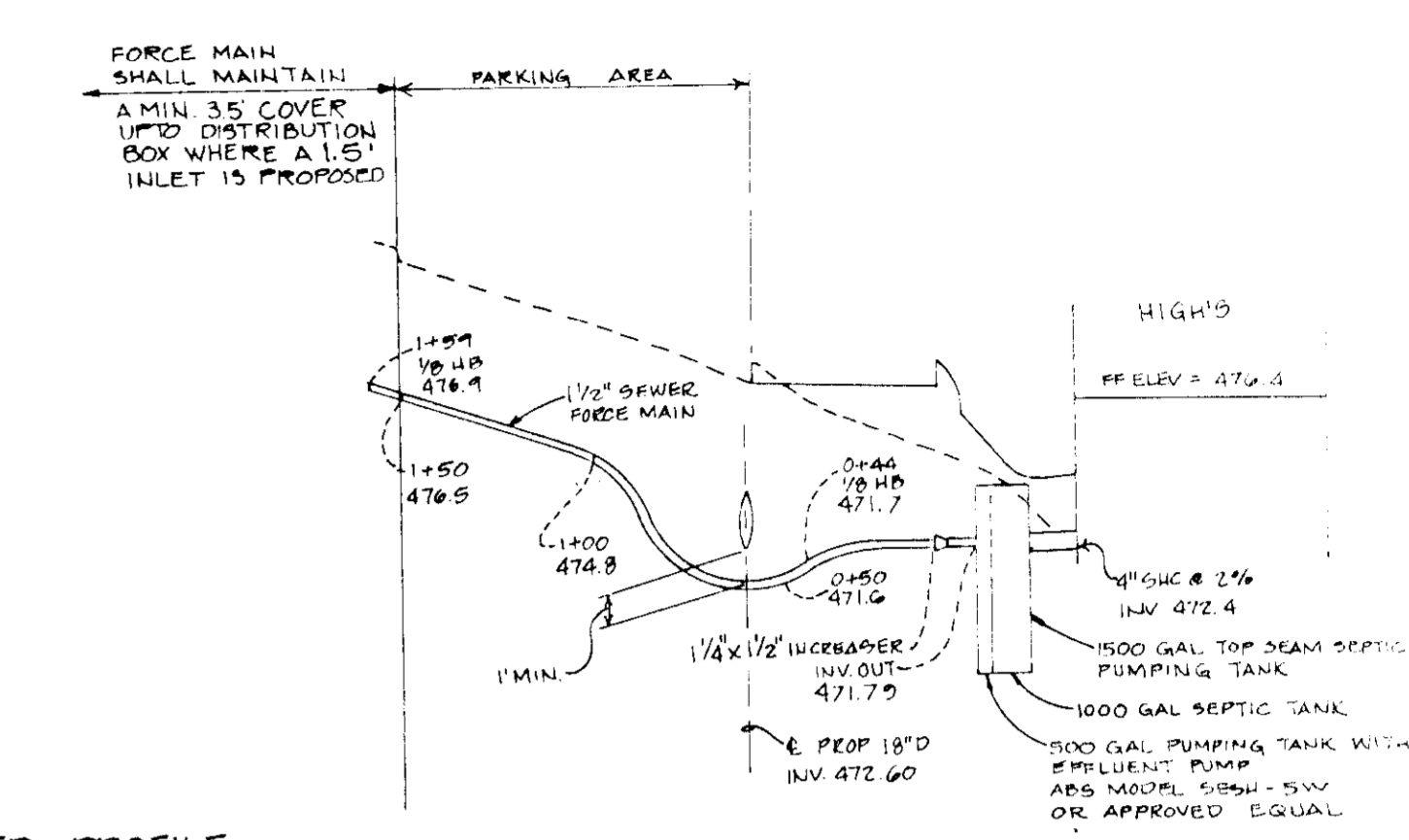
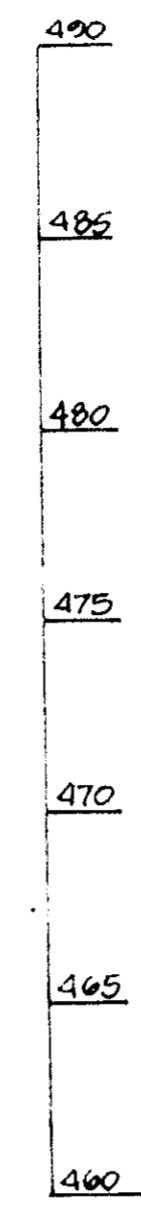
DES: DAM DRN: J.W.G. SCALE: AS SHOWN DRAWING 4 OF 5



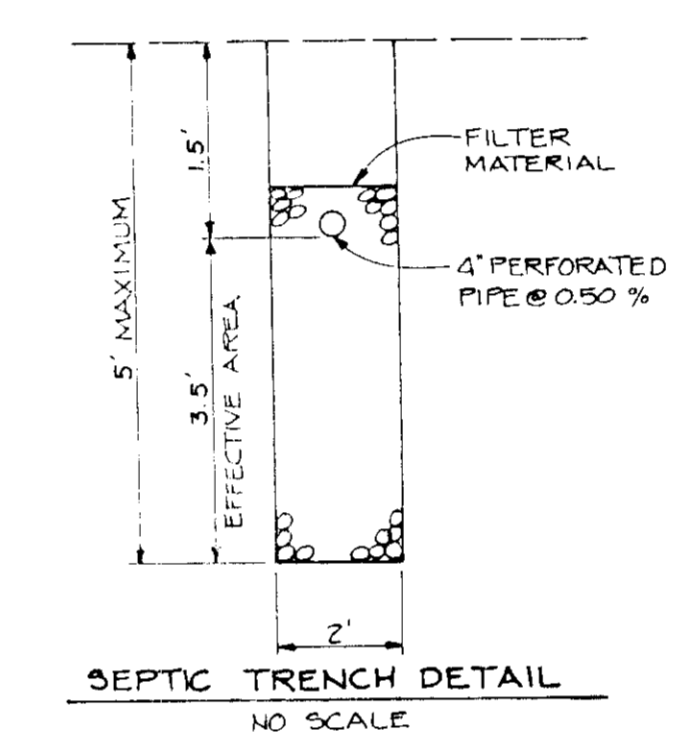
**BUTTRESSES FOR VERTICAL BEND**  
NO SCALE

**WATER AND SEWER NOTES CONTINUED**

8. [Symbol] INDICATES PRIVATE SEWER AND UTILITY EASEMENT FOR FORCE MAIN ONLY NOT FOR SEWERAGE DISPOSAL.
9. [Symbol] THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECREATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
10. ALL WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY HAVE BEEN SHOWN.
11. APPROVAL OF WATER SUPPLY IS PENDING THE APPROVAL OF A GROUNDWATER APPROPRIATION PERMIT FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.
12. SEWERAGE DISPOSAL CONTRACTOR WILL BE REQUIRED TO TEST RUN EJECTOR PUMPS, CONTROLS AND ALARMS PRIOR TO HEALTH DEPARTMENT FINAL SEPTIC SYSTEM APPROVAL. PROPER PUMP FUNCTION AND TRENCH DOSING ARE TO BE CONFIRMED TO THE SATISFACTION OF THE HOWARD COUNTY HEALTH DEPARTMENT.
13. THE FACILITY IS SERVED BY A SEWERAGE DISPOSAL AREA ON THE ADJOINING PARCEL C-1. SEE WEST FRIENDSHIP NEIGHBORHOOD CENTER REVISION PLAT OF PARCEL "D-1" AS SHOWN ON PLAT NO. Q118, NOTES NUMBER 9 AND 10 FOR FURTHER DETAIL. RECORDED AS PLAT NO. 10704.



**SEWER PROFILE**  
SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



**SEPTIC TRENCH DETAIL**  
NO SCALE

**REQUIRED SEPTIC TRENCHES**

MAXIMUM SEWERAGE DESIGN FLOW ASSUME 500 GPD  
TRENCH DESIGN LOAD RATE 1.0 GAL PER SQ FT/DAY  
500 GPD = 1.0 GPD/D = 500 SQ FT TOTAL TRENCH AREA  
500 GPD = 3.5 FT EFFECTIVE AREA = 143 LINEAR FT.  
OF TRENCH REQUIRED.  
TRENCH PROVIDED 190 LINEAR FT.

**WATER AND SEWER NOTES:**

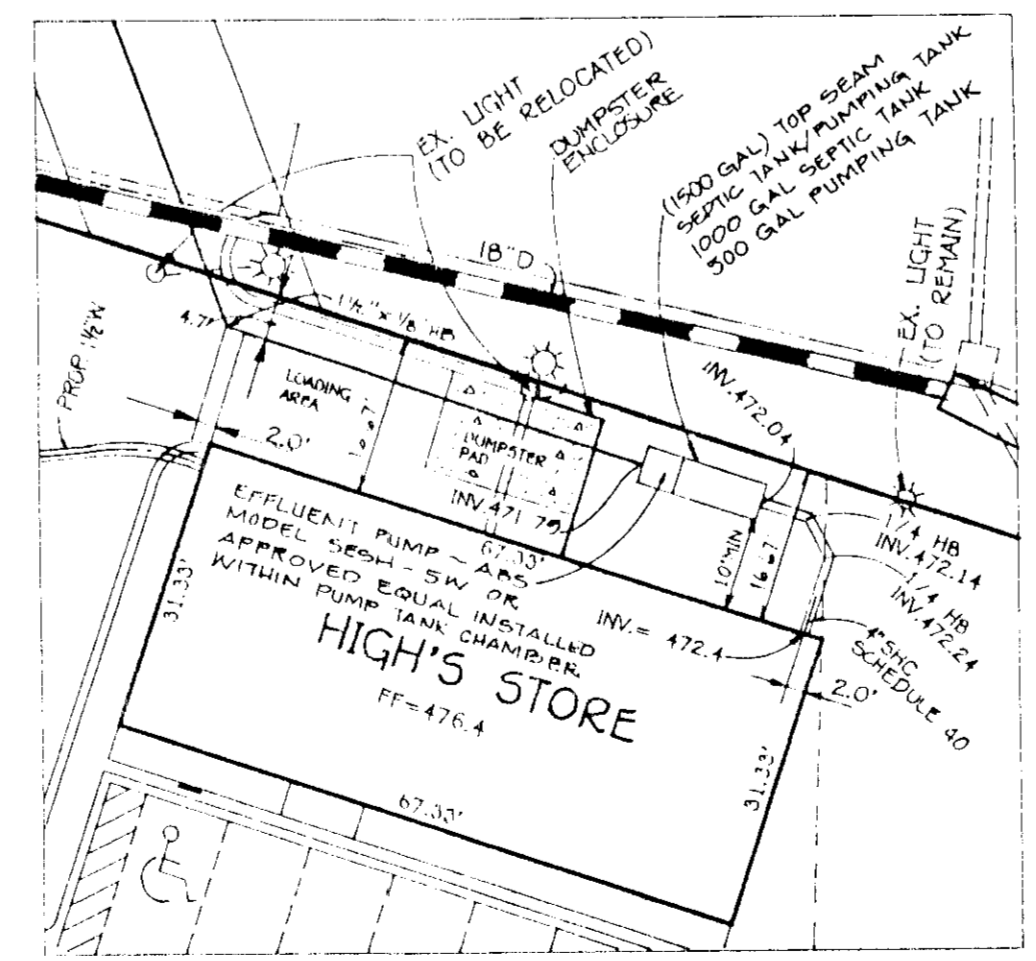
1. All construction methods and materials for on-site private water and sewer systems shall follow the current edition of Howard County Plumbing Code, supplemented by the Howard County Standard Details and Specifications where necessary.
2. 4-inch sewer house connection shall be built within 5 feet of building. 4-inch PVC pipe shall meet requirements of ASTM D-3034. Wall thickness classification schedule 40. 1 1/2-inch pressure sewer shall be PVC pipe and meet requirements of ASTM-D2241. Wall thickness classification SDR-21.
3. All bends along force main require blocking.
4. Area where water house connection is being built shall be at final grade and connection shall be laid with a minimum of 1.5 feet of cover. Water House Connection shall be 1 1/2-inch diameter.
5. Existing utility structures and appurtenances are shown in accordance with the best available information. The contractor shall notify Miss Utility (telephone number 1-800-257-7171) 48 hours in advance of work in the vicinity of existing utility structures and appurtenances and shall verify to his own satisfaction by test pit or other means the actual location of existing utility structures and appurtenances prior to construction in their vicinity.
6. A water flow meter is to be installed on an incoming line in an accessible location.
7. Septic tank shall be of a top beam design.

APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.	
<i>John Broderick</i> COUNTY HEALTH OFFICER	8-11-93 DATE
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.	
<i>Comm. [Signature]</i> DIRECTOR	7-27-93 DATE
<i>Robert [Signature]</i> CHIEF, BUREAU OF ENGINEERING	7/26/93 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>James [Signature]</i> DIRECTOR	8/16/93 DATE
<i>Ronald [Signature]</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/16/93 DATE

NO.	DATE	REVISION
1	6/10/95	ADD GASOLINE ISLANDS AND UNDERGROUND TANKS

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<b>OWNER:</b> NCN PARTNERSHIP 800 RIVER ROAD SYKESVILLE, MARYLAND 21704	<b>PROJECT:</b> <b>HIGH'S</b> (CONVENIENCE STORE) PARCEL D-1 WEST FRIENDSHIP NEIGHBORHOOD CENTER LOCATION: TAX MAP 15, PARCEL 184 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
<b>BUILDERS:</b> HIGH'S OF BALTIMORE, INC. 2700 SISSON STREET BALTIMORE MARYLAND 21211	<b>TITLE:</b> <b>PRIVATE WATER AND SEWER PLAN</b> SDP-92-42 F-05-62 RAD-101-E-23-00 DATE: DECEMBER 11, 1992 PROJECT NO. 0411 FEBRUARY 10, 1993
<b>DES:</b> OAM	<b>DRN:</b> JWG
<b>SCALE:</b> AS SHOWN	

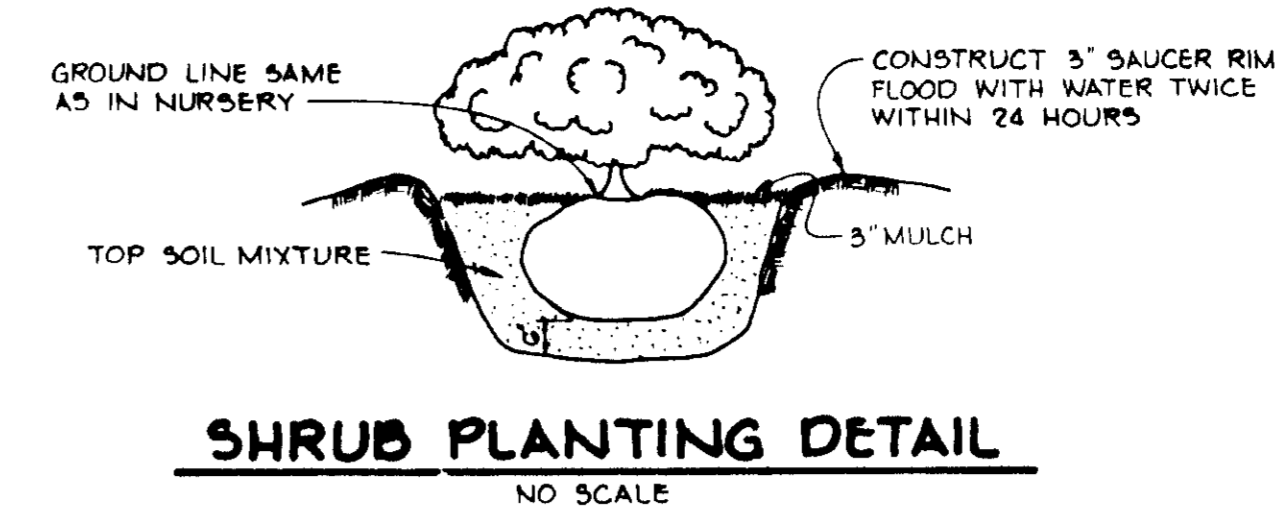


**DETAIL**  
SCALE: 1" = 20'

NOTE: AMES INC. 9020 MENDEHALL CT. SUITE J COLUMBIA, MD 21045 (410) 995-6971 IS A LOCAL DEALER FOR ABS PUMPS.

**SCHEDULE A  
PERIMETER LANDSCAPE EDGE**

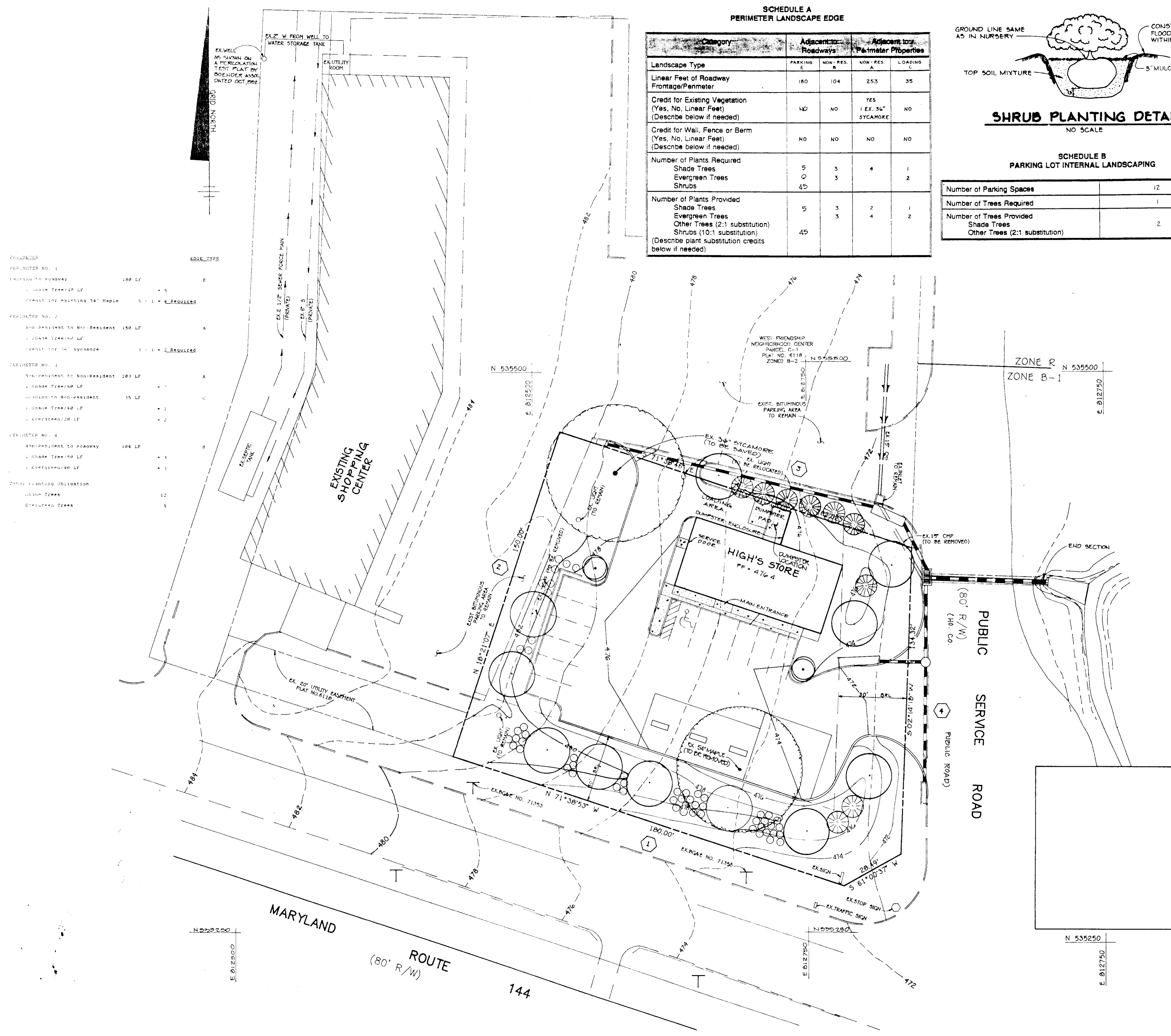
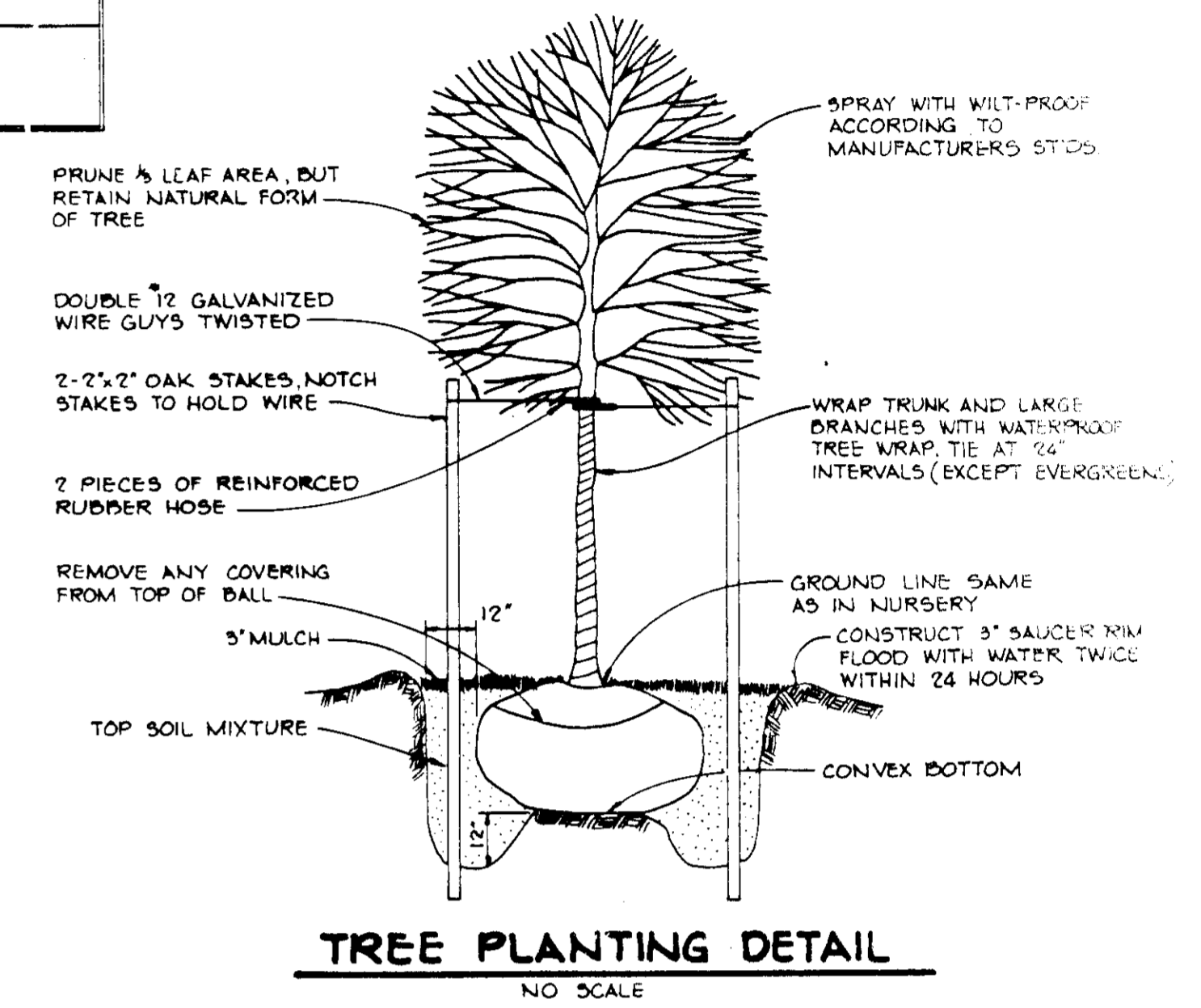
Category	Adjacent to Roadways		Adjacent to Perimeter Properties	
	PARKING E	NON-RES. B	NON-RES. A	LOADING C
Linear Feet of Roadway Frontage/Perimeter	180	104	253	35
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	YES 1 EX. 36" SYCAMORE	NO
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	NO	NO	NO	NO
Number of Plants Required				
Shade Trees	5	3	4	1
Evergreen Trees	0	3	4	2
Shrubs	45			
Number of Plants Provided				
Shade Trees	5	3	2	1
Evergreen Trees		3	4	2
Other Trees (2:1 substitution)				
Shrubs (10:1 substitution)	45			
(Describe plant substitution credits below if needed)				



PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
○	11	ACER RUBRUM (RED MAPLE)	2 1/2" MIN. CAL. D.B. FULL HEAD
○	55	EUNYMIUS ALATUS COMPACTUS (DWARF WINDO EUNYMIUS)	18"-24" FULL HEAD
○	9	PINUS STROBUS (WHITE PINE)	5'-6" UN-SHEARED
○	2	ACER CAMPESTRE (HEDGE MAPLE)	2 1/2" MIN. CAL.

**SCHEDULE B  
PARKING LOT INTERNAL LANDSCAPING**

Number of Parking Spaces	12
Number of Trees Required	1
Number of Trees Provided	
Shade Trees	2
Other Trees (2:1 substitution)	



APPROVED: FOR PRIVATE WATER AND SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.  
*Frank B. ...* 8-11-93  
 COUNTY HEALTH OFFICER JUN. DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*James P. ...* 7/27/03  
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Paul D. ...* 7/26/03  
 CHIEF, BUREAU OF ENGINEERING CO 711423 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Joseph R. ...* 8/16/93  
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Richard B. ...* 8/16/93  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

9/17/93 ADD GASOLINE ISLANDS, UNDERGROUND TANKS AND REVERSE LANDSCAPE TYPE 'C'  
 NO. DATE REVISION

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OWNER: NCN PARTNERSHIP  
 800 RIVER ROAD  
 SYKESVILLE, MARYLAND 21704

PROJECT: HIGH'S (CONVENIENCE STORE)  
 PARCEL D-1 WEST FRIENDSHIP NEIGHBORHOOD CENTER  
 LOCATION: TAX MAP 15, PARCEL 10.4  
 3RD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

BUILDERS: HIGH'S OF BALTIMORE, INC.  
 2700 SISSON STREET  
 BALTIMORE MARYLAND 21211

TITLE: LANDSCAPE PLAN  
 SDP 22.42, P. 85-G2, BA 21-102, P-22-G8, P-75-48  
 DATE: DECEMBER 11, 1992 PROJECT NO. 0492  
 FEBRUARY 10, 1993

DES: DAM DRN: JWG SCALE: 1" = 20' DRAWING 9 OF 9