

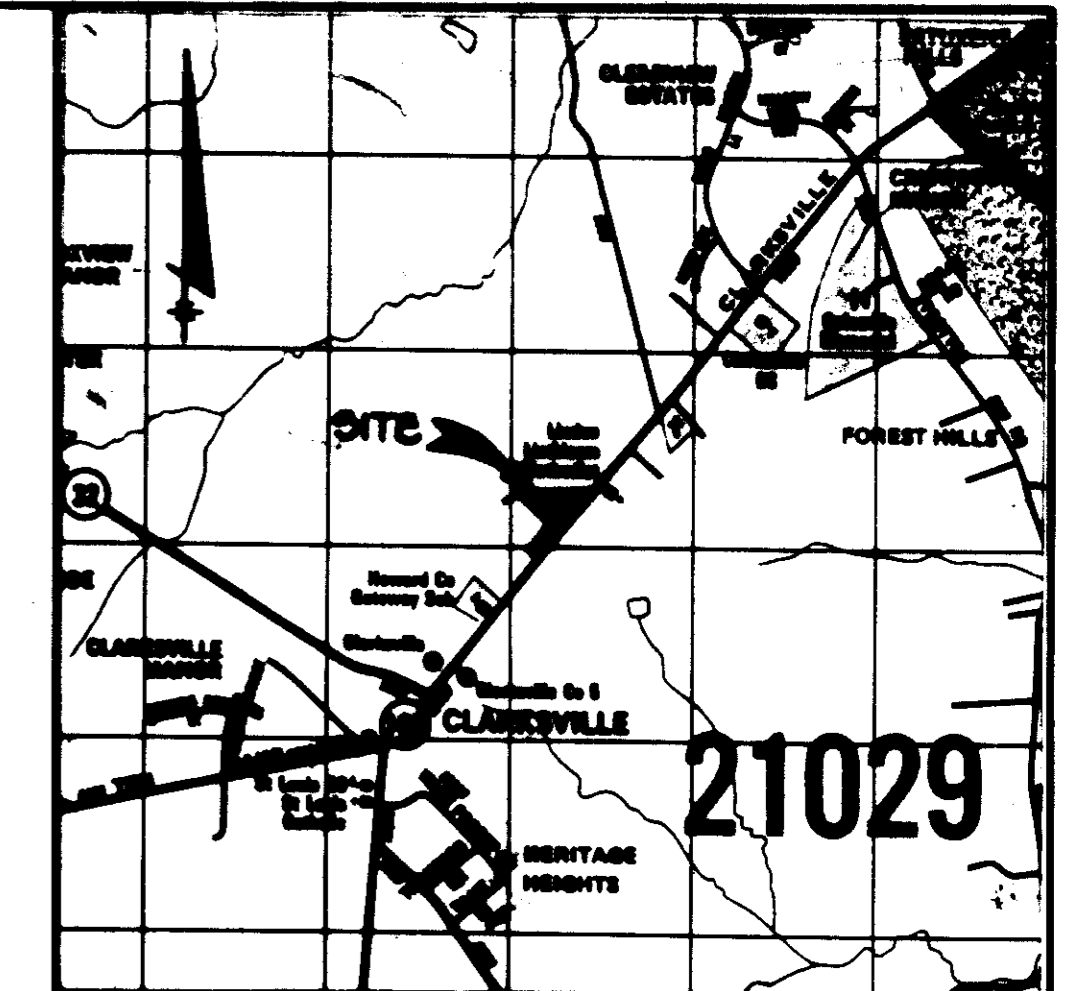
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	STORMAGE AREA MAP, GRADING, & EROSION CONTROL PLAN
4	NO 100 FLOODPLAIN PLAN
5	SWISH BRAIN PROFILES
6	DETAIL SHEET
7	DETAIL SHEET
8	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN

FREESTATE PETROLEUM

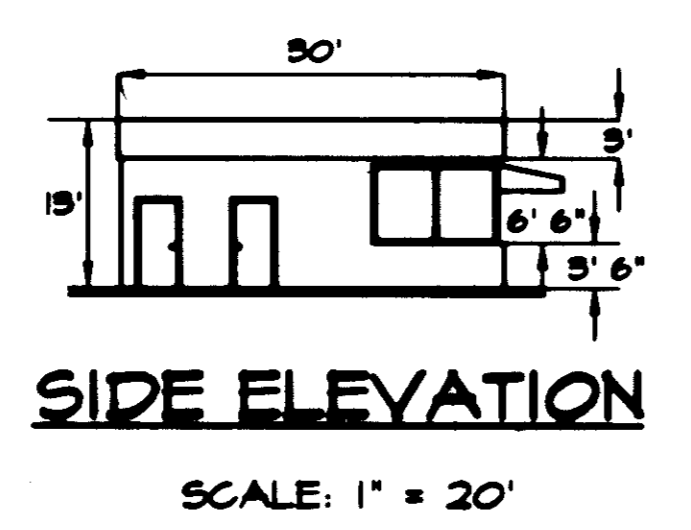
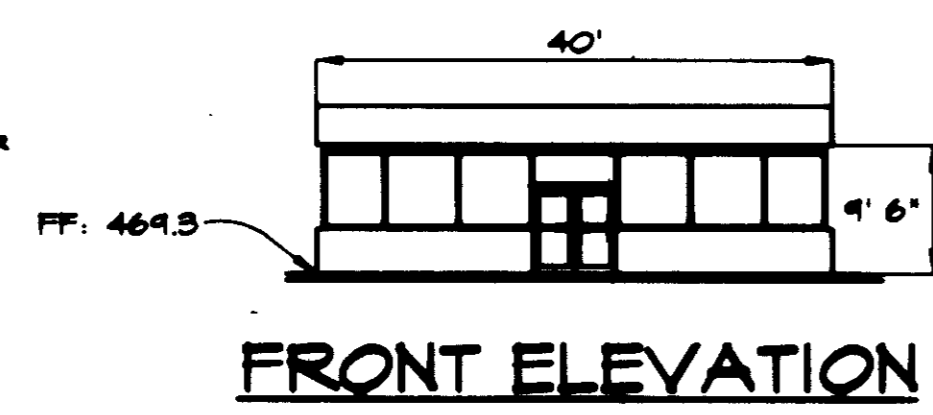
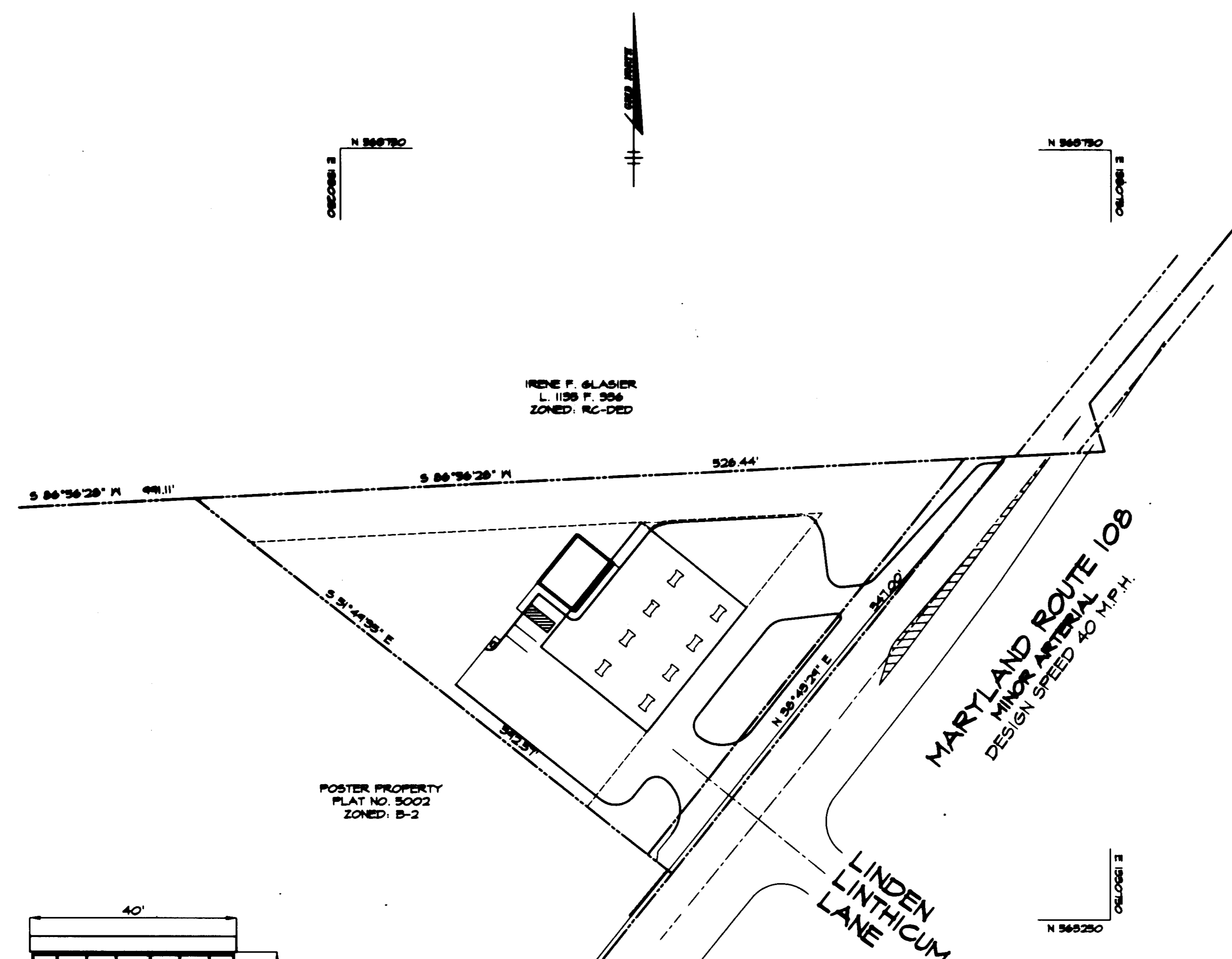
5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUMBING REGULATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DEPARTMENT OF ENGINEERING/CONSTRUCTION INSPECTOR AT (410) 366-2200 AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "800 UTILITY" AT 1-800-321-7771 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, WARNING, AND SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND TEMPORARY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
- THE CONVEYANCES SHOWN HEREIN ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL POINT IS BASED UPON THE HOWLAND STATE PLANS AND CONVEYANCE SYSTEM HOWARD COUNTY PERMITS NO. 8482 AND 8484 FILED FOR THIS PROJECT.
- POWER IS PUBLIC. CONVEYANCE NO. 44-0348.
- THE SEWER SYSTEM CONVEYS OF A PRIVATE SEPTIC FIELD.
- THE SWISHER WATER MANAGEMENT FACILITY PROPOSED FOR THIS SITE IS TO BE PROPERLY COVERED AND MAINTAINED.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT THE EXISTING UTILITIES AND MAINTAIN IDENTIFIED SERVICES. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" BELOW FINISHED GRADE.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 BELL ATLANTIC TELEPHONE COMPANY 726-4475
 HOWARD COUNTY BUREAU OF UTILITIES 366-1100
 CITY OF CLARKVILLE 366-0228
 CITY OF CLARKVILLE WATER COMPANY 366-0228
 CITY OF CLARKVILLE GAS COMPANY 366-0228
 HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTOR 366-1800
 SCHEDULED IN ADVANCE PRIOR TO EXCAVATION OF ANY UTILITIES.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY LEE CUNNINGHAM & ASSOC. (MAY, 1995).
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE GEOTECHNICAL STUDY FOR SWISHER WATER MANAGEMENT FOR THIS PROJECT WAS PREPARED BY HILL-CARRIS ENGINEERING ASSOCIATES, INC. (DECEMBER, 1995).
- THE SURVEY FOR THIS PROJECT WAS PREPARED BY REBER MESSAGE & ASSOC. (FEBRUARY, 1995).
- SUBJECT PROPERTY ZONED B-2 PER 10-10-89 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE M.S.L. AND 6.6' MEAN SEA LEVEL. DATUM M.S.L.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO. SDP 96-36, SA 95-23E, WD 95-20.
- THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES AT LEAST 30 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS/SCHEMATA.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE Laid UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL SWISH BRAIN PIPE SECTIONS SHALL BE CLASS "C" AS SHOWN IN FIG. H.4. VOLUME I OF HOWARD COUNTY DESIGN MANUAL, UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- SWISH BRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.P., EXCAVATION OPERATIONS AND DETAILS FOR CONSTRUCTION LATEST AMENDMENTS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF ASTM D 1557.
- ALL SITE LIGHTING IS TO BE DIRECTED AWAY FROM ALL RESIDENTIAL PROPERTIES.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL BASE-OWNER'S RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEWER AND SWISHER CONTROL FACILITIES, SWISH WATER MANAGEMENT FACILITIES, AND THE DISCHARGE OF SWISH WATER INTO AN ACCESS ADJACENT OR DISCONTIGUOUS PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL BASE-OWNER'S RIGHTS ADJACENT TO OR ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- NO WETLANDS ARE LOCATED ON THIS SITE.
- NO 100 YEAR FLOODPLAINS ARE LOCATED ON THIS SITE.
- EXISTING TOPOGRAPHY TAKEN FROM FIELD SURVEY PERFORMED BY REBER MESSAGE & ASSOCIATES, INC. FEBRUARY, 1995 AND FROM PROPOSED GRADINGS ON SDP-96-36.
- EXISTING HILL, EXISTING SEPTIC TANKS, AND EXISTING DRY WELLS TO BE ABANDONED, UNDER SDP-96-36.
- PROPOSED HAS A PAVEMENT RESISTANCE TO HAVE SECTIONS 18,206(12), 18,197(12) AND 18,206(12).
- SECTION 18,206(12) PERMITS DIRECT ACCESS FROM AN ARTERIAL HIGHWAY. APPROVED: MAY 14, 1996
- SECTION 18,197(12) PERMITS MULTIPLE ACCESS POINTS FROM A RESTRICTED ACCESS ROAD. DENIED: MAY 14, 1996 APPROVED: JUNE 4, 1996
- SECTION 18,206(12) PERMITS GRADING AND THE REMOVAL OF VEGETATIVE COVER WITHIN 50 FEET OF AN INTERFERENT STREAM. DENIED: MAY 14, 1996 APPROVED: JUNE 4, 1996
- 28-44 B.M. THE ADOPTION OF THE 1995 COMPREHENSIVE ZONING PLAN RECLASSIFIED THE SUBJECT PROPERTY FROM THE B-2 (SMALL) ZONING DISTRICT TO THE B-2 (MEDIUM) ZONING DISTRICT. GRANTED: OCTOBER 1995.
- 28-44 B.M. GRANTED SPECIAL EXCEPTION PERMIT FOR CONSTRUCTION OF GAS STATION ON B-2 PARCEL. GRANTED: MARCH 21, 1996
- VEHICULAR SIGNAGE AND SIGNS IS RESTRICTED ON HOWLAND ROUTE 108.
- RESOLUTION PERMIT NO. 83482 ISSUED: NOV. 11, 1995



PLAN
SCALE: 1" = 50'

SITE ANALYSIS

TOTAL AREA OF SITE	1.36 AC. OR 61,784 SQ. FT.
EXISTING ZONING	B-2
PROPOSED USE	COMMERCIAL
PAVEMENT PETITION NO.	PP-96-40
BUILDING COVERAGE OF SITE	1300 SQ. FT. 1.9 % OF GROSS AREA
FLOOR SPACE	1300 SQ. FT. (COMMERCIAL)
PARKING SPACES REQUIRED	3
PARKING SPACES PROVIDED	2 REGULAR 1 VAN ACCESSIBLE HANDICAP SPACE
OPEN SPACE ON SITE	0.3 AC. 4.4 % OF GROSS AREA

ADDRESS CHART

LOT NO.	STREET ADDRESS
1	1270 CLARKSVILLE ROAD, CLARKSVILLE, MD. 21024

BLK	LOT	BLK	LOT	BLK	LOT
1	1	2	2	3	3

BENCHMARKS

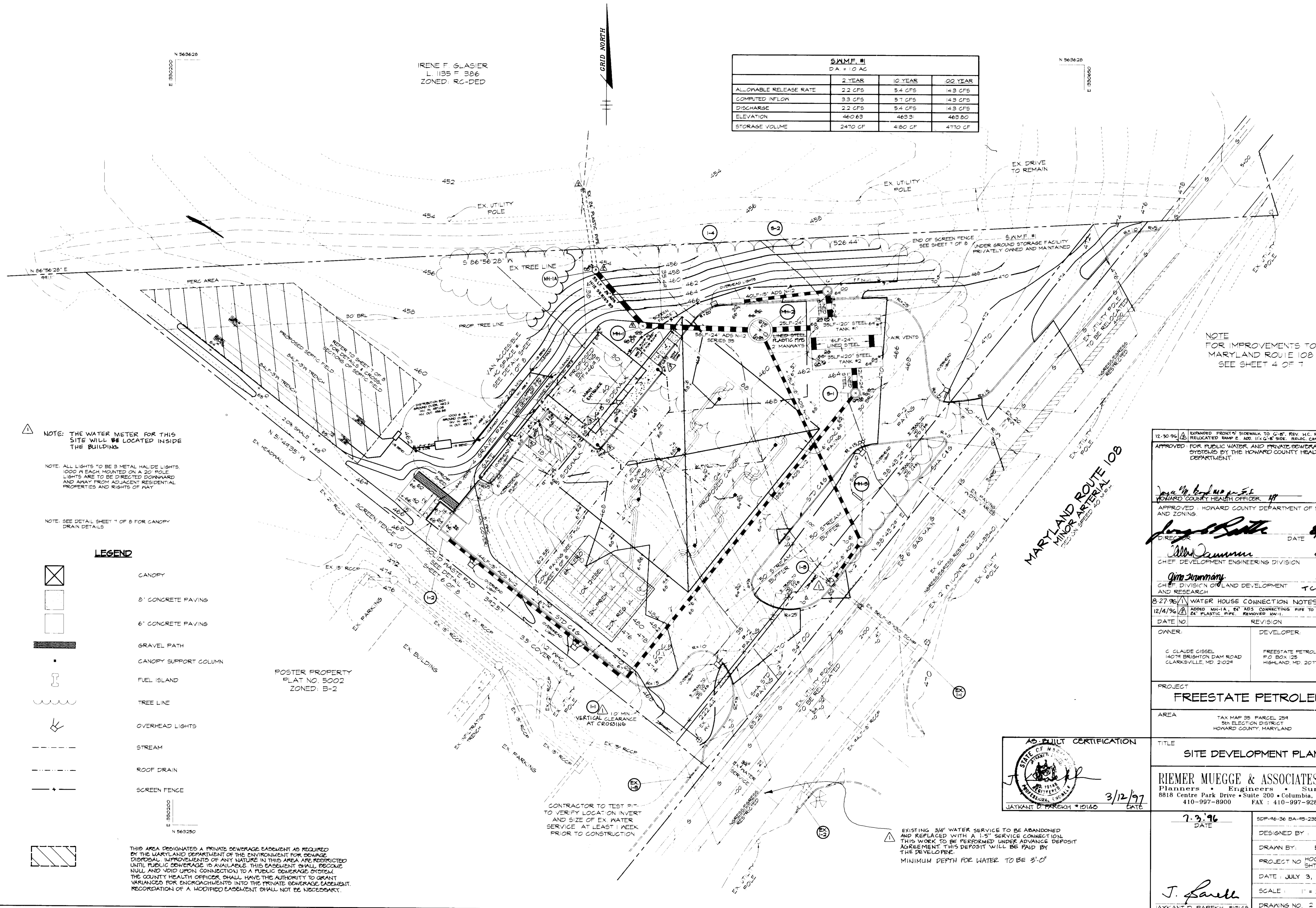
HOWARD COUNTY CONTROL STATION # 3482 ELEV. = 484.54
 N 565468.214 E 152149.520 (NAD83)
 CONC. MON. 0.4' BELOW SURFACE, SOUTH EDGE OF RTE. 52,
 117.17' EAST OF 144 MILE MARKER, 1.7 MILES WEST OF RTE. 108

HOWARD COUNTY CONTROL STATION # 34CA ELEV. = 514.20
 N 562501.116 E 1526884.844 (NAD83)
 CONC. MON. 5.5' NORTH OF MACADAM SHOULDER ON RTE. 52,
 1.6 MILES EAST OF LINDEN CHURCH, 0.45 MILES WEST OF RTE. 108

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Carolyn Boyd</i> HOWARD COUNTY HEALTH OFFICER	8-6-96 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>John R. ...</i> DIRECTOR	8/6/96 DATE
<i>Robert ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	8/5/96 DATE
<i>Ann ...</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	8/6/96 DATE
DATE NO.	REVISION
OWNER:	DEVELOPER:
C. GLAIDE GIBEL 1407 BRIGHTON DAM ROAD CLARKSVILLE, MD. 21024	FREESTATE PETROLEUM CORP. P.O. BOX 128 HIGHLAND, MD. 20711
PROJECT FREESTATE PETROLEUM	
AREA	TAX MAP 88 PARCEL 284 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE TITLE SHEET 1	
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 6616 Conroy Park Drive • Suite 200 • Columbia, MD 21046 410-997-8900 FAX: 410-997-8282	
7.3.96 DATE	SDP-96-36-284-PP-96-40
	DESIGNED BY: JTD
	DRAWN BY: BLM
	PROJECT NO: HOC050501 SHTLDP6
	DATE: JULY 3, 1996
	SCALE: AS SHOWN
<i>J. Farrell</i> JAYKANT D. PAREKH 89148	DRAWING NO. 1 OF 2

IRENE F. GLASIER
L. 1135 F. 386
ZONED: RC-DED

S.W.M.F. #1 D.A. = 10 AC	S.W.M.F. #1		
	2 YEAR	10 YEAR	20 YEAR
ALLOWABLE RELEASE RATE	2.2 CFS	5.4 CFS	14.3 CFS
COMPUTED INFLOW	3.3 CFS	3.7 CFS	14.3 CFS
DISCHARGE	2.2 CFS	5.4 CFS	14.3 CFS
ELEVATION	460.63	463.31	463.80
STORAGE VOLUME	2470 CF	4180 CF	4170 CF



NOTE: THE WATER METER FOR THIS SITE WILL BE LOCATED INSIDE THE BUILDING.

NOTE: ALL LIGHTS TO BE 3 METAL HALIDE LIGHTS, 1000 W EACH MOUNTED ON A 20' POLE. LIGHTS ARE TO BE DIRECTED DOWNWARD AND AWAY FROM ADJACENT RESIDENTIAL PROPERTIES AND RIGHTS OF WAY.

NOTE: SEE DETAIL SHEET 7 OF 8 FOR CANOPY DRAIN DETAILS.

LEGEND

- CANOPY
- 8' CONCRETE PAVING
- 6' CONCRETE PAVING
- GRAVEL PATH
- CANOPY SUPPORT COLUMN
- FUEL ISLAND
- TREE LINE
- OVERHEAD LIGHTS
- STREAM
- ROOF DRAIN
- SCREEN FENCE

POSTER PROPERTY
PLAT NO. 5002
ZONED: B-2

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR SEWAGE 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 SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.

CONTRACTOR TO TEST TO VERIFY LOCATIONS AND SIZE OF EX. WATER SERVICE AT LEAST 1 WEEK PRIOR TO CONSTRUCTION.

EXISTING 3/4" WATER SERVICE TO BE ABANDONED AND REPLACED WITH A 1-1/2" SERVICE CONNECTION. THIS WORK TO BE PERFORMED UNDER ADVANCE DEPOSIT AGREEMENT. THIS DEPOSIT WILL BE PAID BY THE DEVELOPER.
MINIMUM DEPTH FOR WATER TO BE 3'-0"

NOTE FOR IMPROVEMENTS TO MARYLAND ROUTE 108 SEE SHEET 4 OF 7

12-30-96	EXPANDED FRONT SIDEWALK TO 6'-0". REV. H.C. RAMP #1 & RELOCATED RAMP #2. ADD 11'x6'-8" SIDE. RELOC. CANOPY COLUMNS.
APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Jaykant D. Parekh</i>	9-6-96 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Jim Summery</i>	8/9/96 DATE
CHIEF DEVELOPMENT ENGINEERING DIVISION	
<i>Jim Summery</i>	8/9/96 DATE
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH	
8-27-96 WATER HOUSE CONNECTION NOTES	
12/4/96	ADDED MH-1A, 24" ADS CONNECTING PIPE TO MH-1 EXIST. 24" PLASTIC PIPE. REMOVED HW-1.
DATE NO.	REVISION
OWNER:	DEVELOPER:
G. CLAUDE CISSEL 14074 BRIGHTON DAM ROAD CLARKSVILLE, MD 21024	FREESTATE PETROLEUM CORP. P.O. BOX 125 HIGHLAND, MD 20117

PROJECT: **FREESTATE PETROLEUM**

AREA: TAX MAP 35 PARCEL 254
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
Planners Engineers Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

DATE: **7-3-96**

SDP-46-96 BA-95-23E MP-95-90

DESIGNED BY: JTD

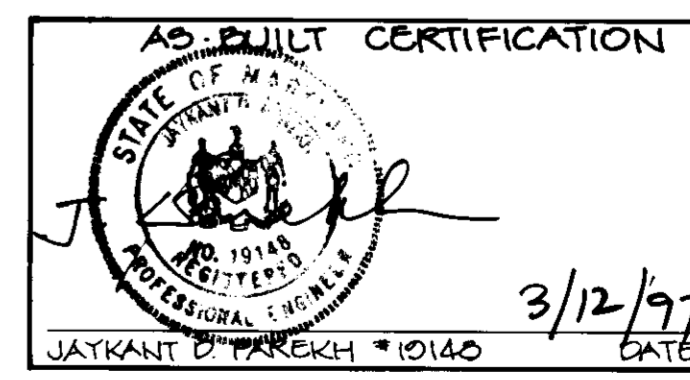
DRAWN BY: BLA

PROJECT NO: HOC0105501
SHT2.DWG

DATE: JULY 3, 1996

SCALE: 1" = 20'

DRAWING NO. 2 OF 8



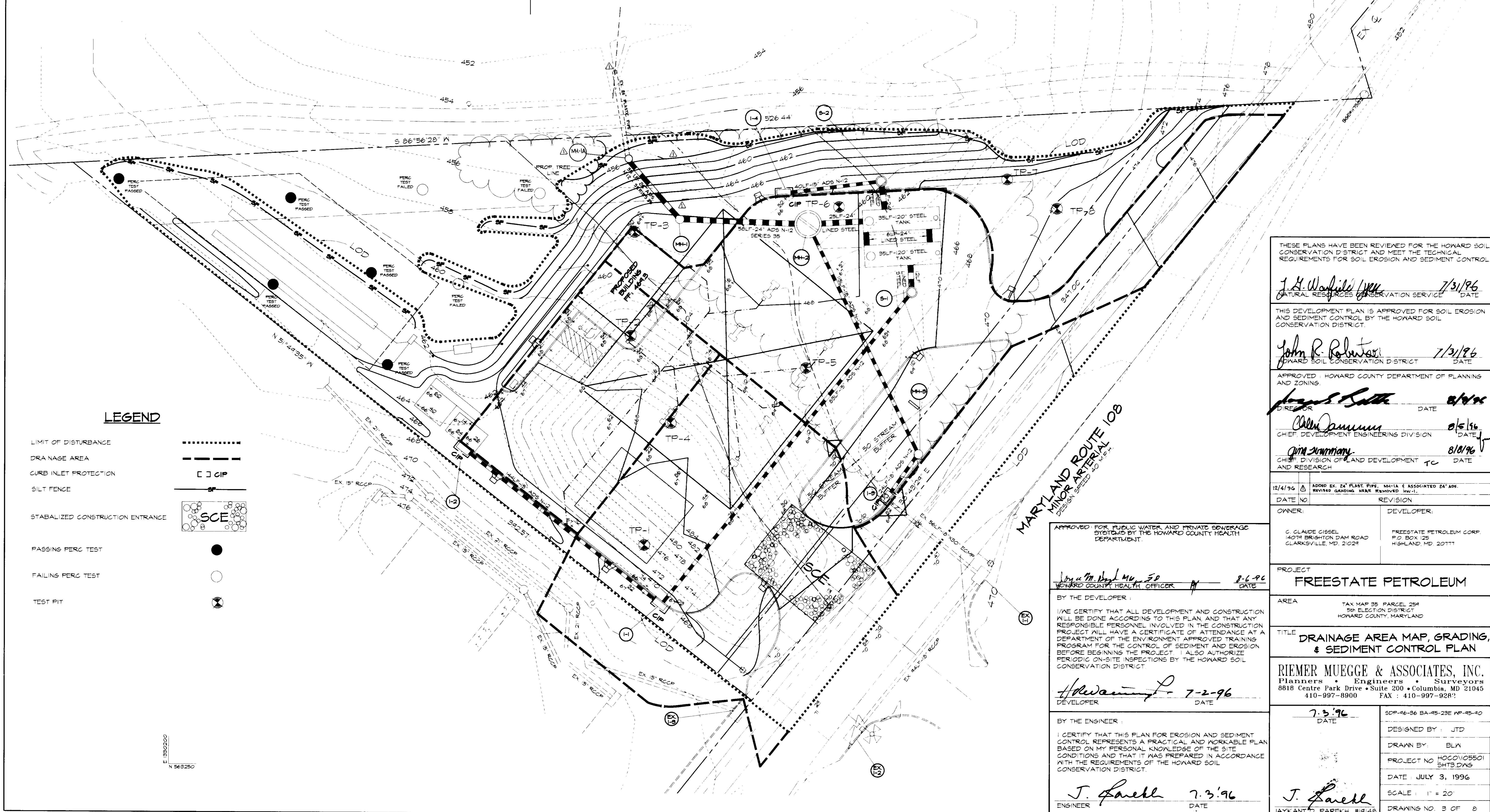
DRAINAGE AREA TABULATION

INLET#	D.A.	'C'	%IMP	ZONING
I-1	0.40 AC	0.83	65	B-2
I-2	0.16 AC	0.86	100	B-2
I-3	0.3 AC	0.86	100	B-2
I-4	0.46 AC	0.68	74	B-2

GRID NORTH

E 1392320
N 563628

N 563628
E 1392320



LEGEND

- LIMIT OF DISTURBANCE
- DRAINAGE AREA
- CURB INLET PROTECTION CIP
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE SCE
- PASSING PERC TEST
- FAILING PERC TEST
- TEST PIT

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. H. Workfield 7/31/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Roberts 7/31/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Augusta Smith 8/1/96
DIRECTOR DATE

Allen Cummings 8/6/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Summery 8/10/96
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

12/4/90 ADD EX. 24" PLAST. PIPE, 14'-11" ASSOCIATED 24" ADS. REVISED GRADING WEAR REMOVED INV.-1.

DATE NO. REVISION

OWNER: C. CLAUDE GISSEL, 14074 BRIGHTON DAM ROAD, CLARKSVILLE, MD, 21029
DEVELOPER: FREESTATE PETROLEUM CORP., P.O. BOX 125, HIGHLAND, MD, 20111

PROJECT: FREESTATE PETROLEUM

AREA: TAX MAP 95 PARCEL 254, 5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP, GRADING, & SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9287

7-3-96 DATE
SDP-46-96 BA-45-23E WP-45-90

DESIGNED BY: JTD

DRAWN BY: BLN

PROJECT NO: HOCO05501 SHTS: DAG
DATE: JULY 3, 1996
SCALE: 1" = 20'
DRAWING NO. 3 OF 8

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

John M. Deal 8-6-96
HOWARD COUNTY HEALTH OFFICER DATE

BY THE DEVELOPER:

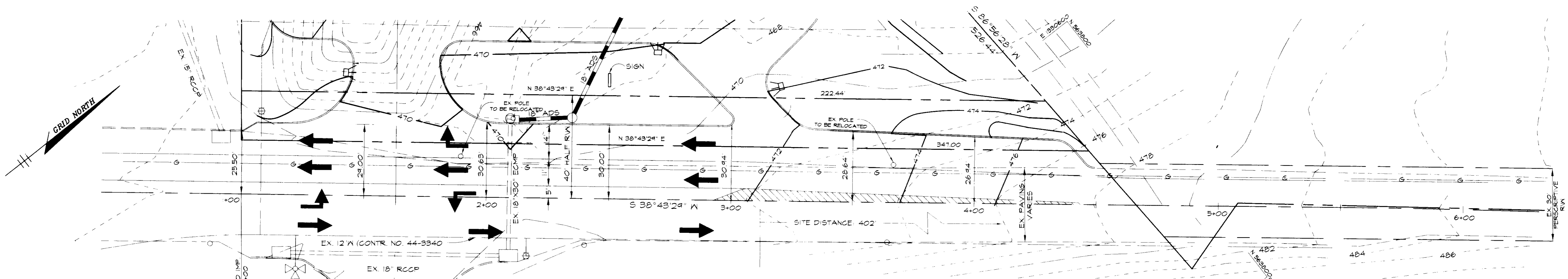
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE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

Howard Smith 7-2-96
DEVELOPER DATE

BY THE ENGINEER:

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

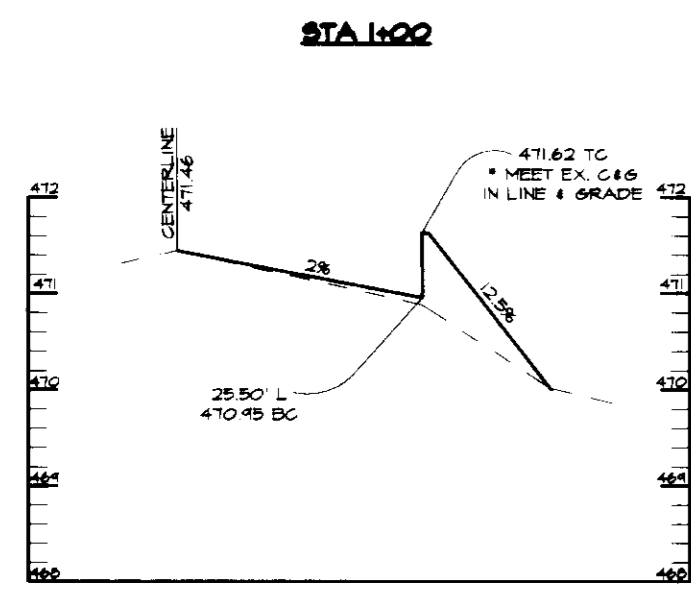
J. Laell 7-3-96
ENGINEER DATE



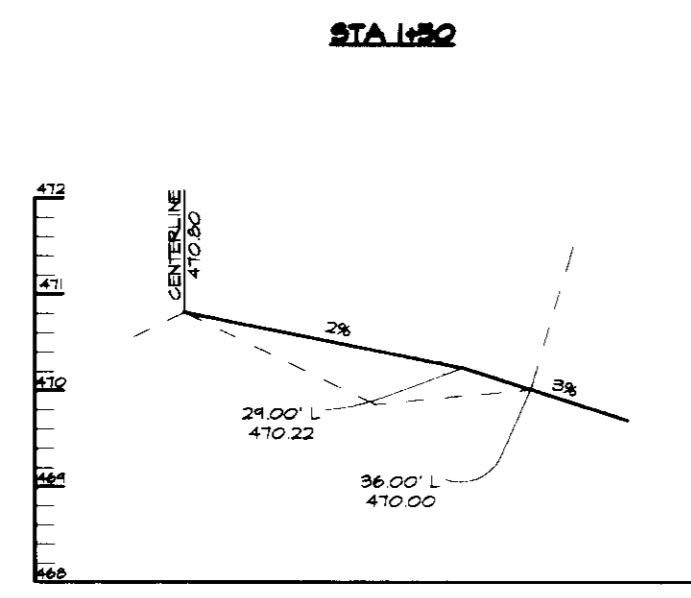
NOTE: SOUTH SIDE OF MD ROUTE 108 TO BE IMPROVED WHEN PROPERTY IN THIS AREA IS DEVELOPED.

MARYLAND ROUTE 108
MINOR ARTERIAL
DESIGN SPEED 40 M.P.H.
SCALE: 1" = 20'

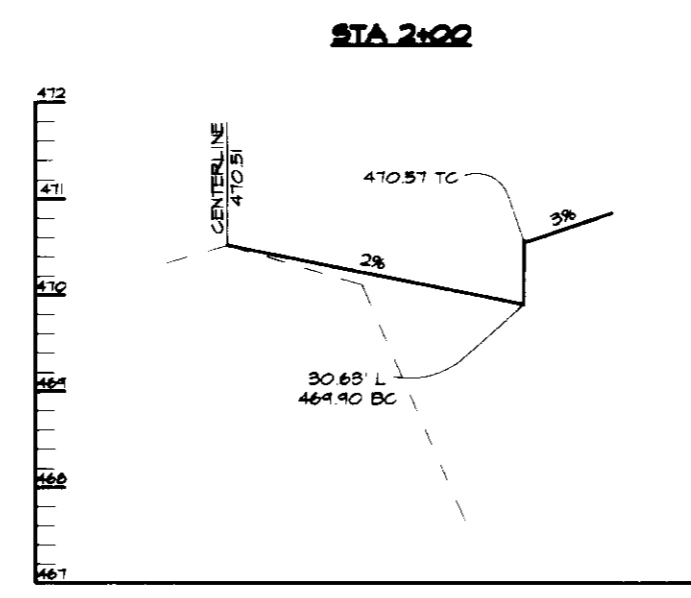
CL STATION	NORTHING	EASTING
BEGIN IMPROVEMENTS		
STA 1+00	563305.52	133048.20
STA 1+50	563305.52	1330513.29
STA 2+00	563344.52	1330544.57
STA 2+50	563383.53	1330575.85
STA 3+00	563422.54	1330607.12
STA 3+50	563461.55	1330638.40
STA 4+00	563500.56	1330669.68
STA 4+50		
END IMPROVEMENTS	563539.56	1330700.96



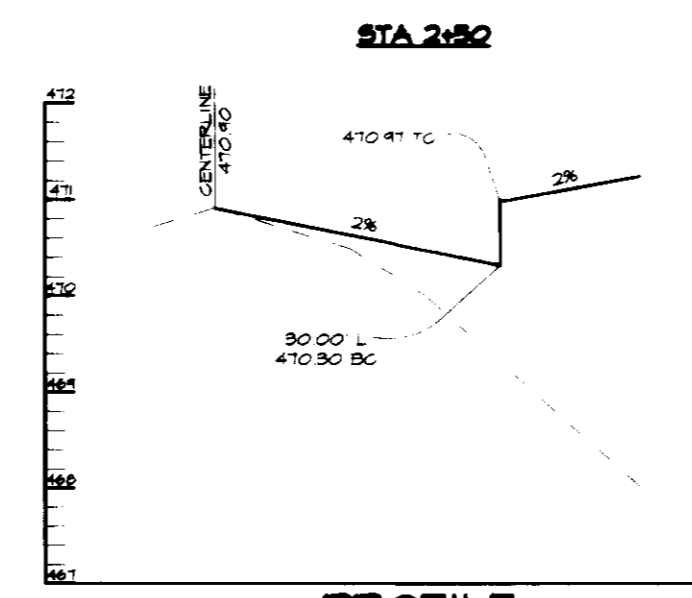
PROFILE
SCALE:
HOR: 1"=20'
VERT: 1"=2'



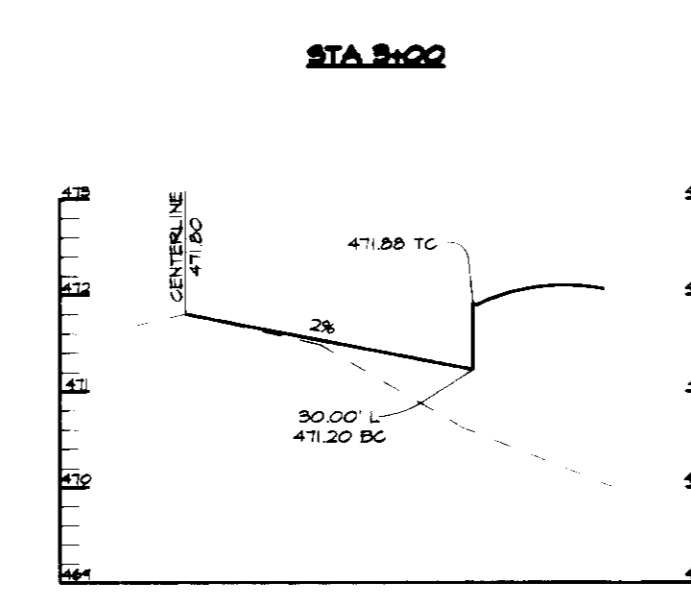
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VERT: 1"=2'



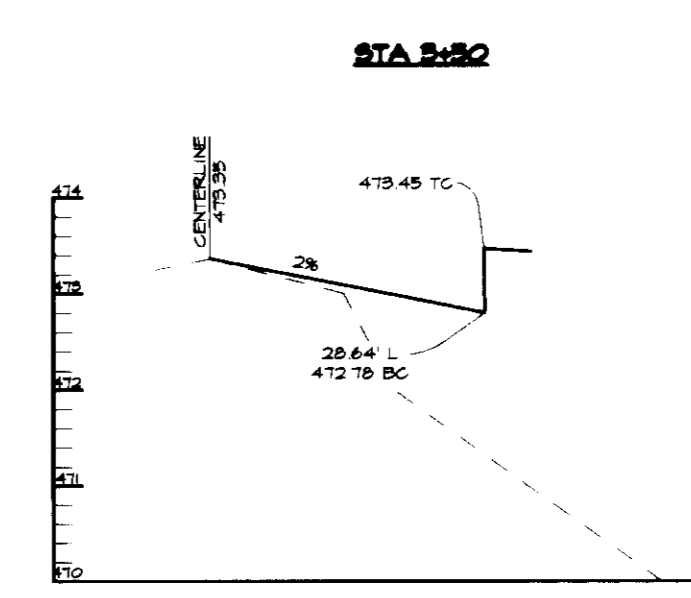
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VERT: 1"=2'



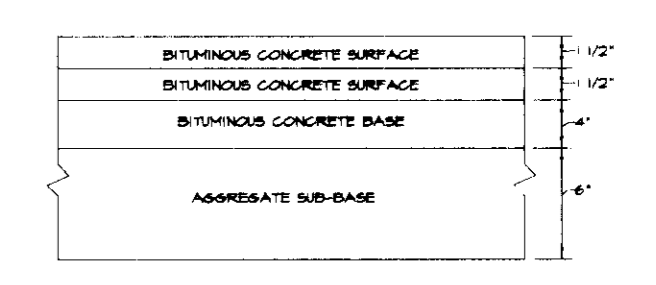
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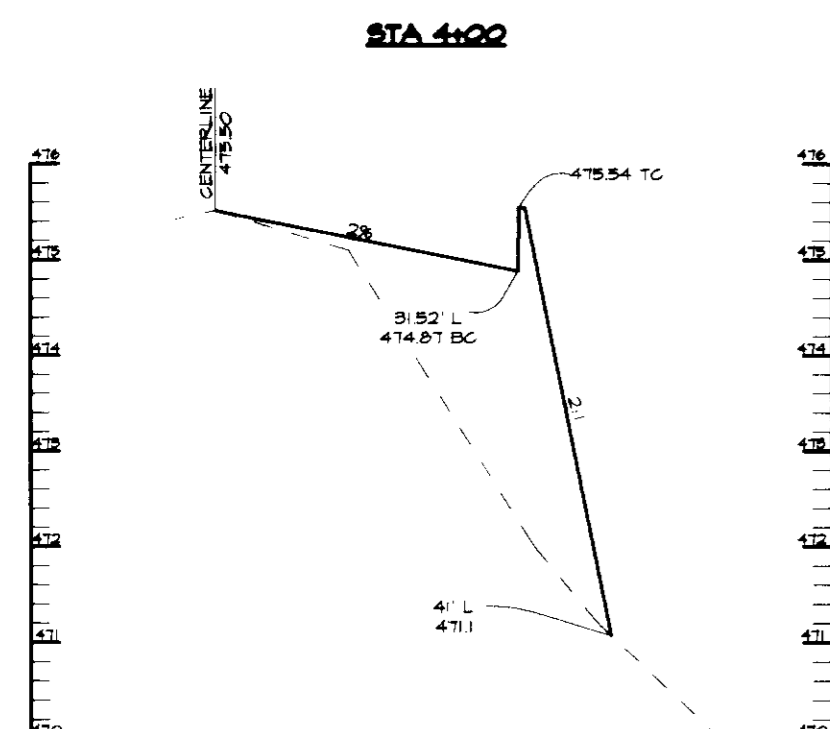
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SCALE:
HOR: 1"=20'
VERT: 1"=2'



PROFILE
SCALE:
HOR: 1"=20'
VERT: 1"=2'

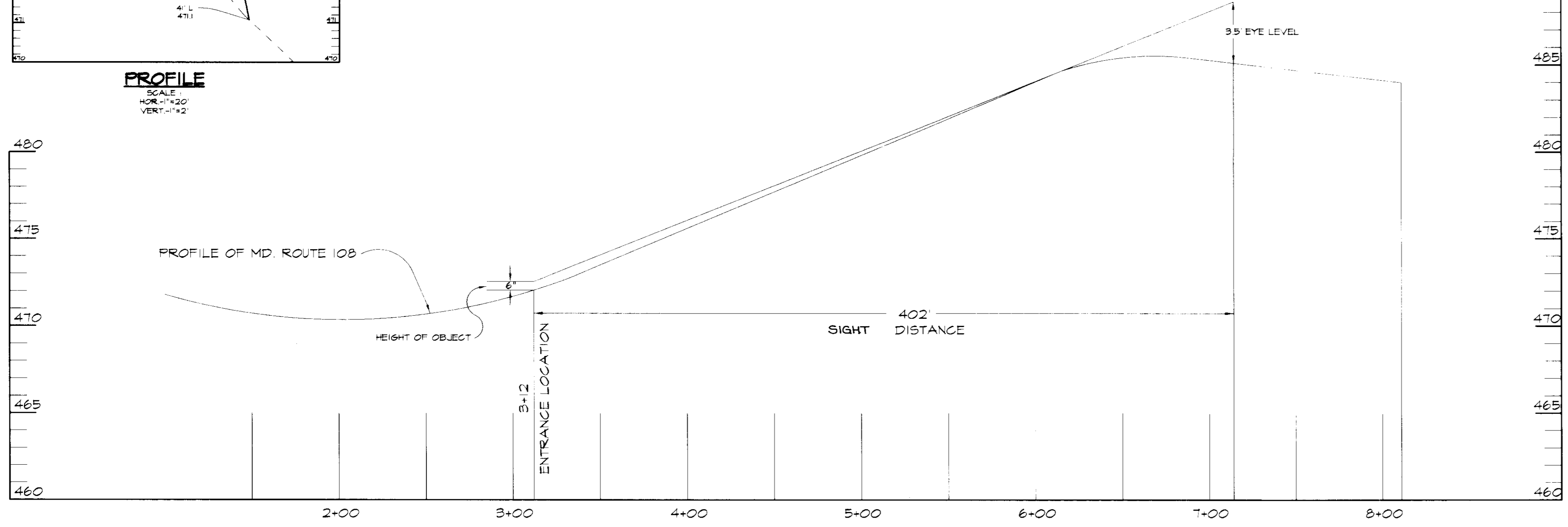


M.S.H.A. PAVING SECTION
NO SCALE

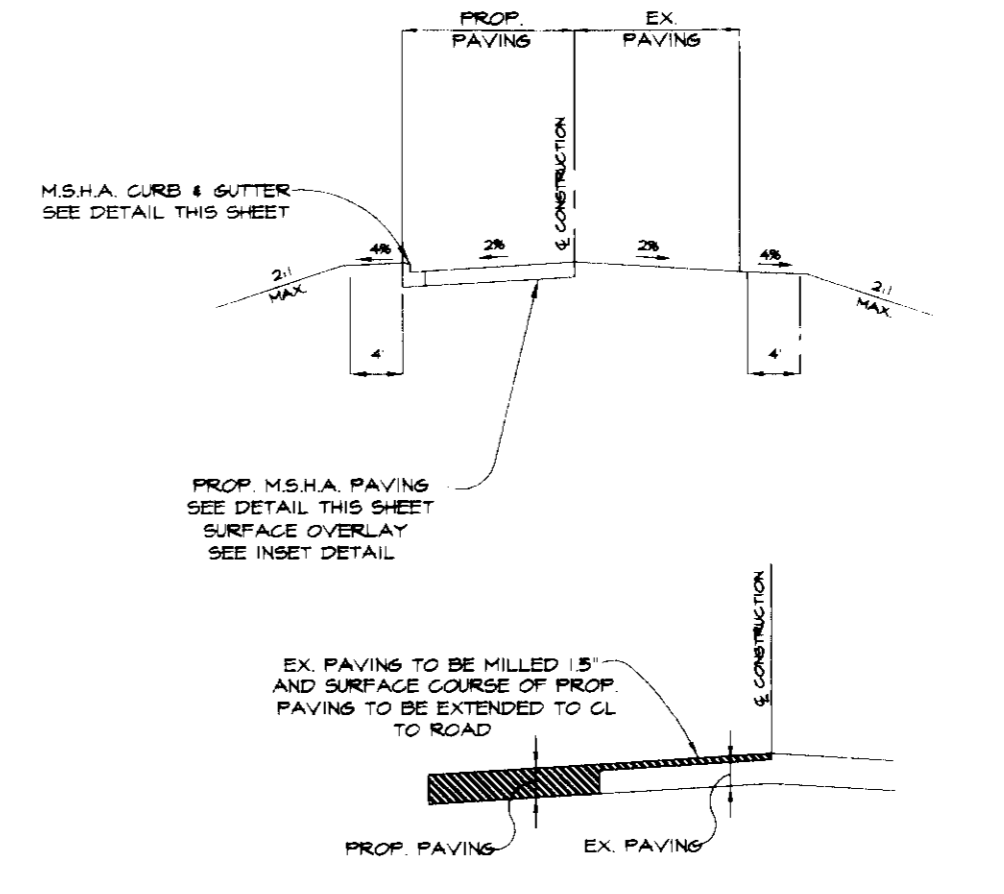


PROFILE
SCALE:
HOR: 1"=20'
VERT: 1"=2'

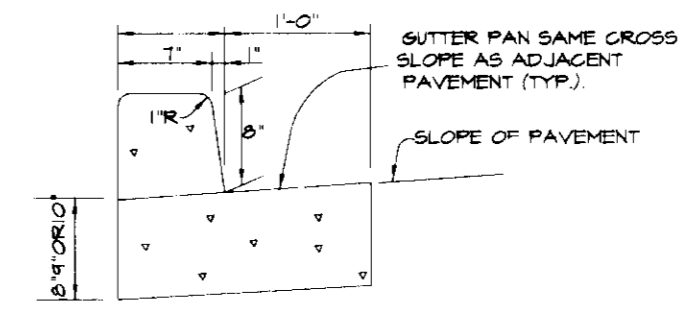
SIGHT DISTANCE ANALYSIS
DESIGN SPEED = 50 MPH PER MSA FIELD DATA
SIGHT DISTANCE REQUIRED = 400 FEET



PROFILE
SCALE:
HOR: 1"=50'
VERT: 1"=5'



MD ROUTE 108 IMPROVEMENT DETAIL
NO SCALE



M.S.H.A. TYPE 'A' CURB AND GUTTER
NO SCALE

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Beck
HOWARD COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Joyce M. Beck 8/9/96
 DIRECTOR DATE
Alvin J. ... 8/5/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Jim ... 8/8/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE NO.	REVISION
OWNER:	DEVELOPER:
G. CLAUDE GISSEL 14078 BRIGHTON DAM ROAD CLARKSVILLE, MD. 21024	FREESTATE PETROLEUM CORP. P.O. BOX 25 HIGHLAND, MD. 20111

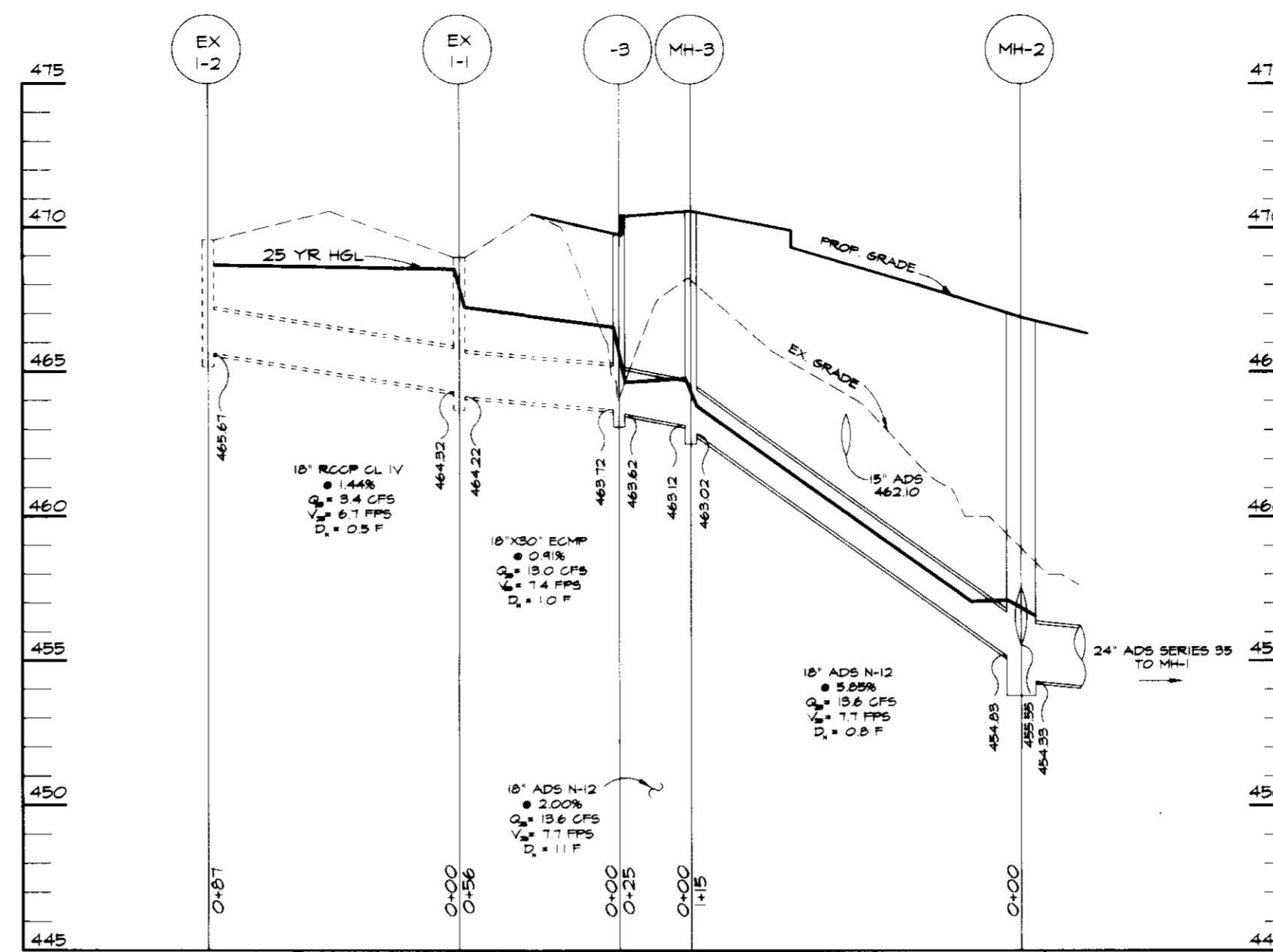
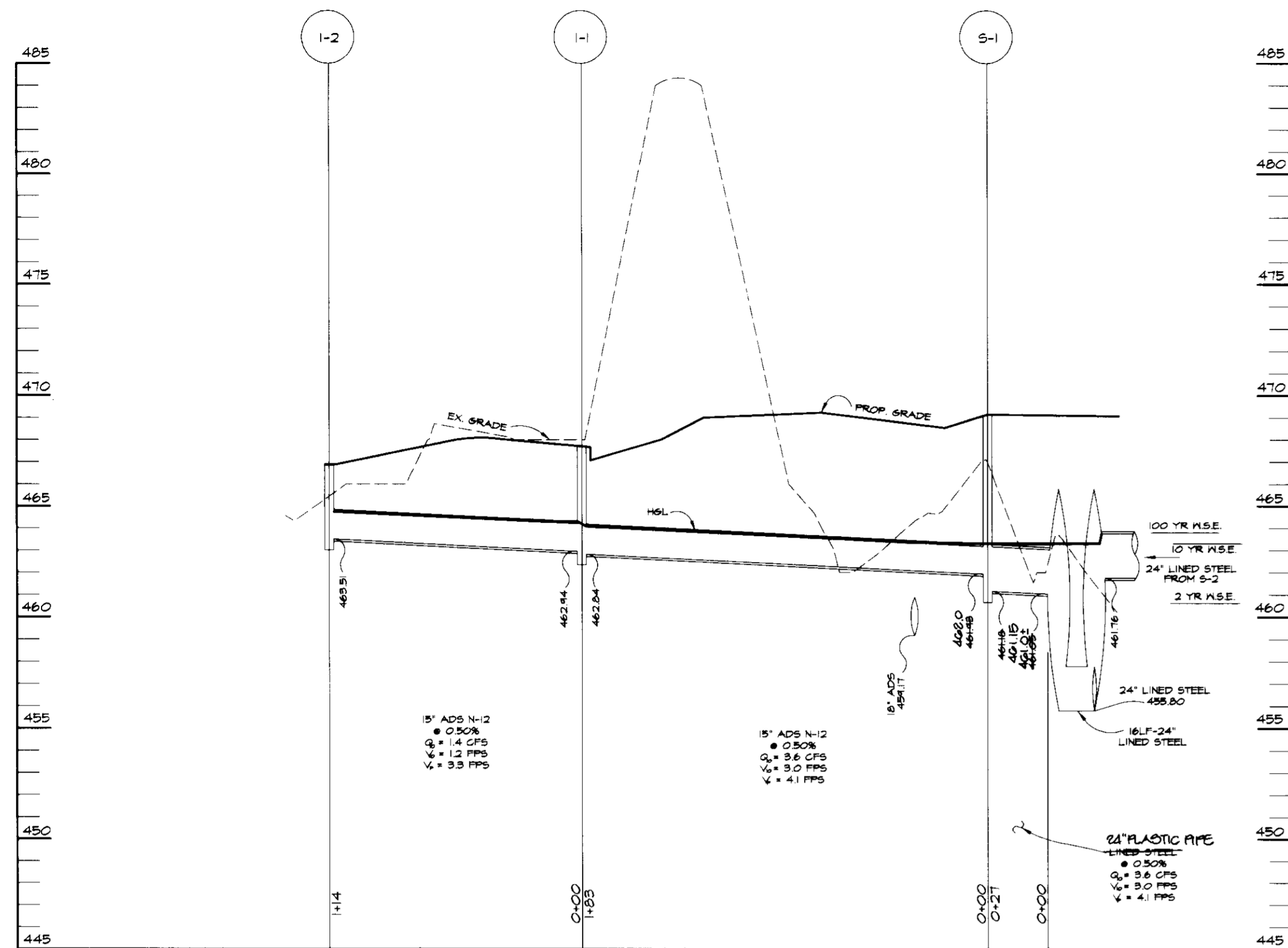
PROJECT: **FREESTATE PETROLEUM**

AREA: TAX MAP 95 PARCEL 254
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

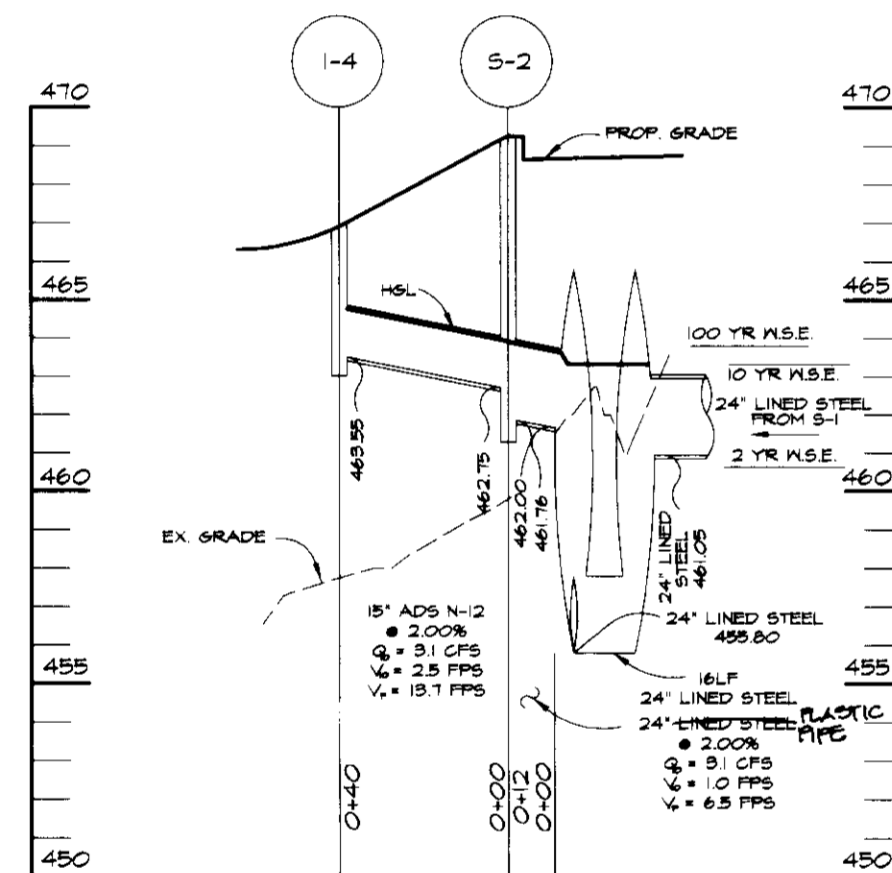
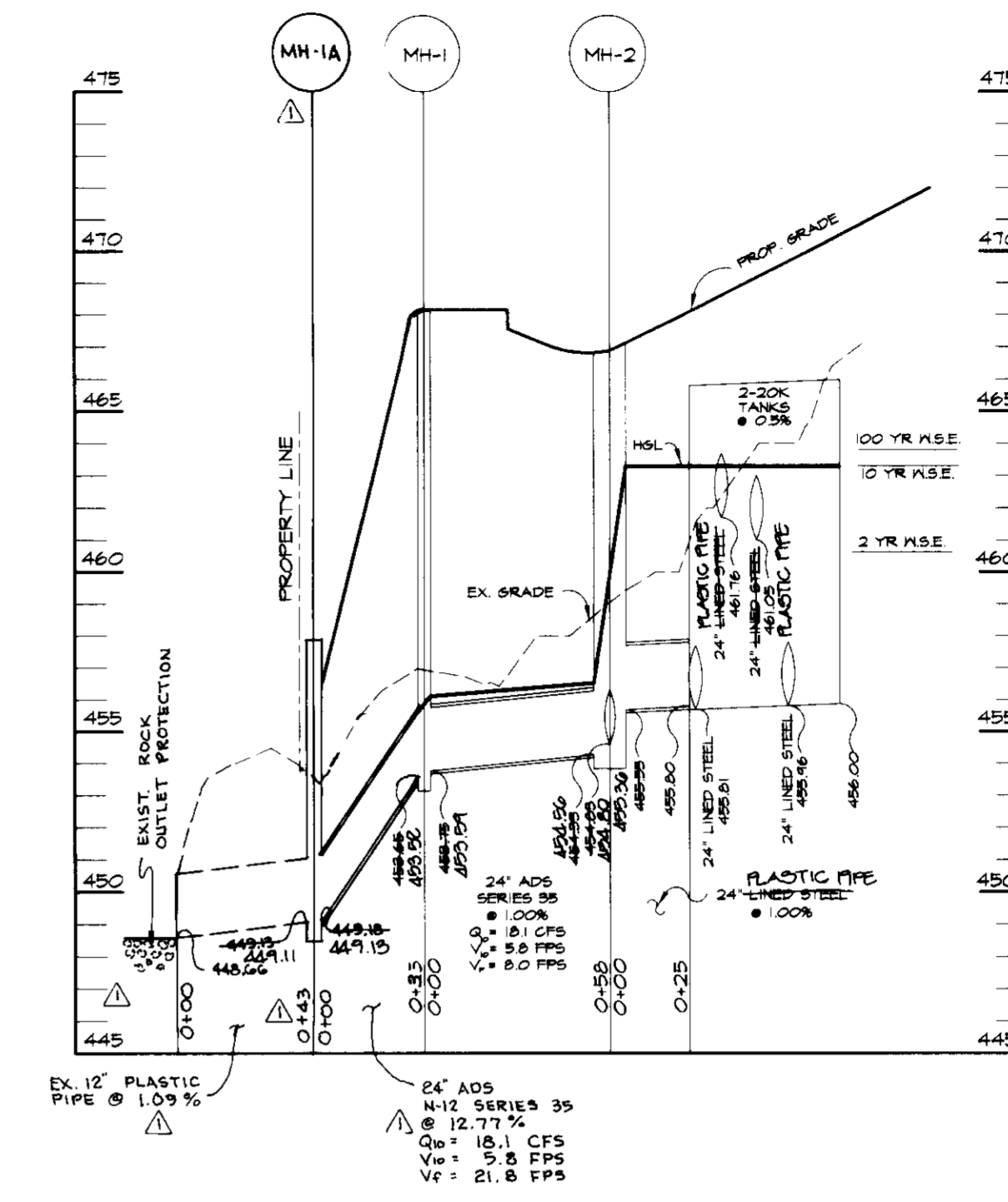
TITLE: **MD. 108 IMPROVEMENT PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

7.3.96 DATE	SDP-96-36 BA-95-23E MP-95-90
	DESIGNED BY: JTD
	DRAWN BY: BLA
	PROJECT NO: HOCO105501 SHT4.DWG
	DATE: JULY 3, 1996
	SCALE: AS SHOWN
	DRAWING NO. 4 OF 8



M.S.H.A. RUN

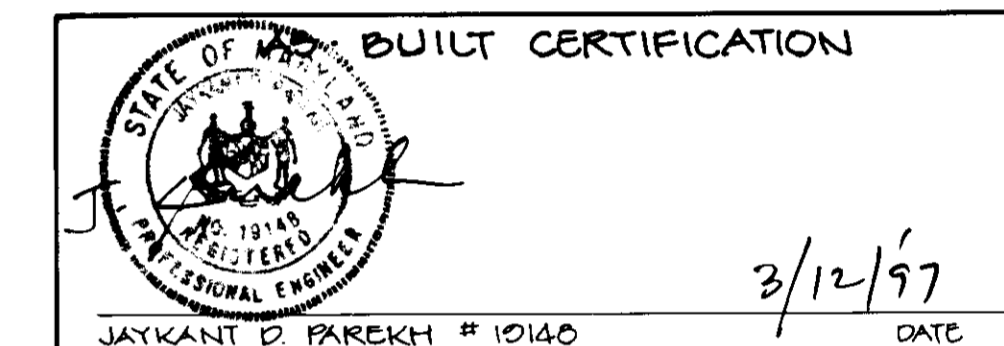


STRUCTURE SCHEDULE

STRUCTURE	ELEVATION	TYPE	NO. CO. STD. DETAIL	INVERT		LID SLOPE	LOCATION	
				IN	OUT		N	E
MH-1A	457.88	4' MH	G-5.12	449.18	449.18	0.00 %	N 563924.17	E 1330409.92 @ CENTER OF STRUCTURE
MH-1	468.88	4' MH	G-5.12	453.75	453.65	0.00 %	N 563498.10	E 1330431.85 @ CENTER OF STRUCTURE
MH-2	466.80	120" DIA. MH	MD-38.4.11	455.85	454.33	3.10 %	N 563496.01	E 1330489.88 @ CENTER OF STRUCTURE
MH-3	470.81	4' MH	G-5.12	463.12	463.02	0.00 %	N 563391.80	E 1330540.35 @ CENTER OF STRUCTURE
I-1	467.63	A-5	SD-4.01	462.94	462.84	0.00 %	N 563324.80	E 1330423.65 @ CENTER OF CURB OPENING
I-2	466.86	A-5	SD-4.01		463.51	0.00 %	N 563394.83	E 1330334.57 @ FRONT CENTER OF STRUCTURE
I-3	470.47	5' COS INLET	MD-37.4.63	463.72	463.62	0.00 %	N 563371.34	E 1330527.64 @ FRONT CENTER OF STRUCTURE
I-4	466.90	A-5	SD-4.01		463.55	0.00 %	N 563508.72	E 1330478.85 @ CENTER OF CURB OPENING
S-1	464.31	STORMCEPTOR	•• 468.0	461.89	461.89	0.00 %	N 563465.28	E 1330537.20 @ CENTER OF STRUCTURE
S-2	464.31	STORMCEPTOR	•• 468.0	462.75	462.00	0.00 %	N 563515.60	E 1330523.19 @ CENTER OF STRUCTURE

• MARYLAND STATE HIGHWAY ADMINISTRATION STD. DETAIL
• SEE DETAIL SHEET

STRUCTURE	LOCATION	ORIENTATION
TANK #1	N 563497.41 E 1330514.84 @ LOW END FRONT CENTER	S 86°56'28" W
TANK #2	N 563481.43 E 1330515.70 @ LOW END FRONT CENTER	S 86°56'28" W



JAYKANT D. PAREKH # 19146 DATE 3/12/97
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE RESIDUAL BY THE HOWARD COUNTY HEALTH DEPARTMENT.

Jay M. DeWitt, Sr. 8-6-96 DATE
HOWARD COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Smith 8/9/96 DATE
DIRECTOR

William J. Summers 8/5/96 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Jim Summery 8/10/96 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

DATE	NO.	REVISION
12/4/96	1	ADDED MH-1A & NEW EXIST PIPING TO PROFILE, REVISED STRUCTURE SCHED BY REMOVING MH-1 & ADDING MH-1A

OWNER	DEVELOPER
G. CLAUDE CIBBEL 14078 BRIGHTON DAM ROAD CLARKSVILLE, MD 21029	FREESTATE PETROLEUM CORP. P.O. BOX 125 HIGHLAND, MD 20711

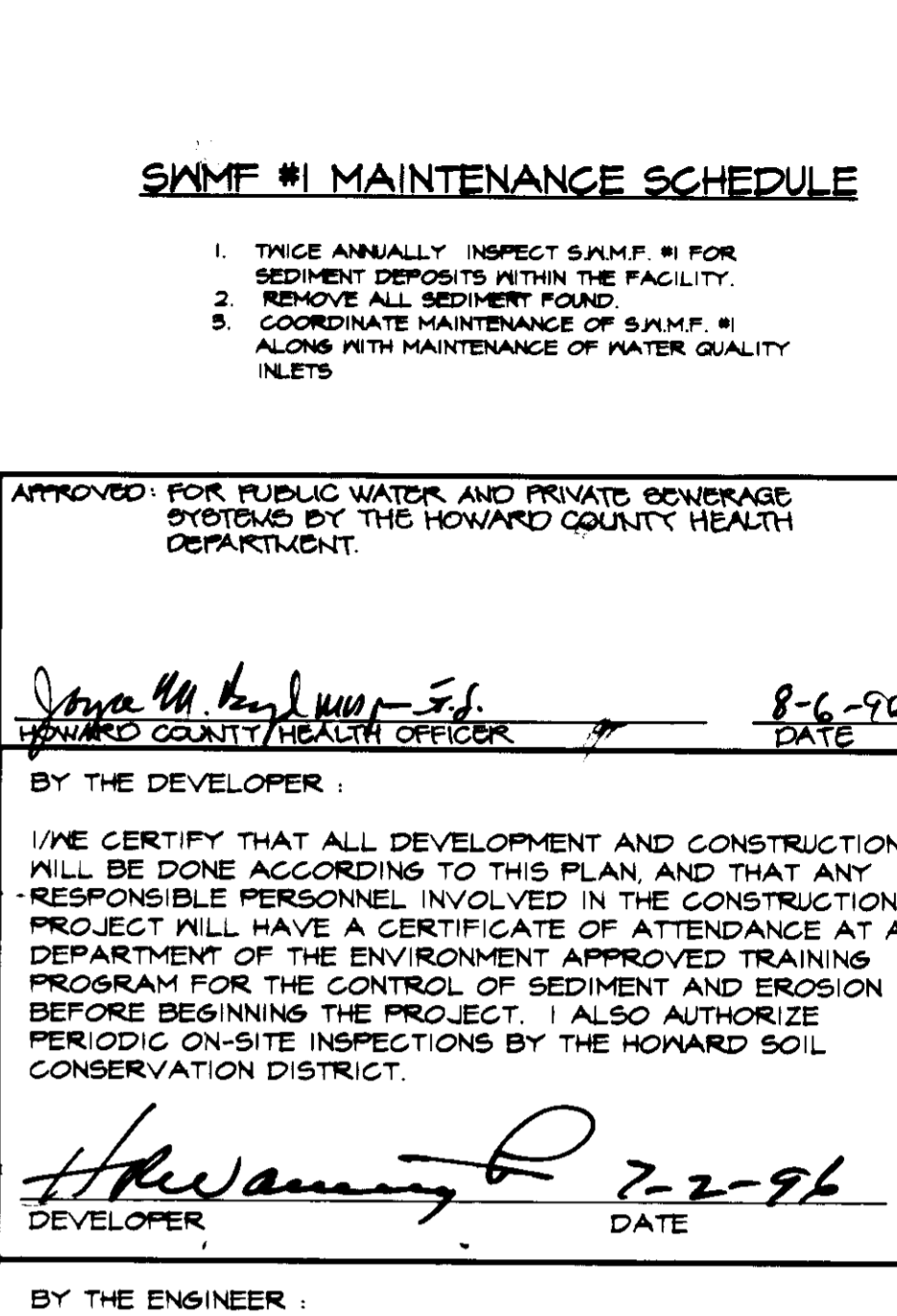
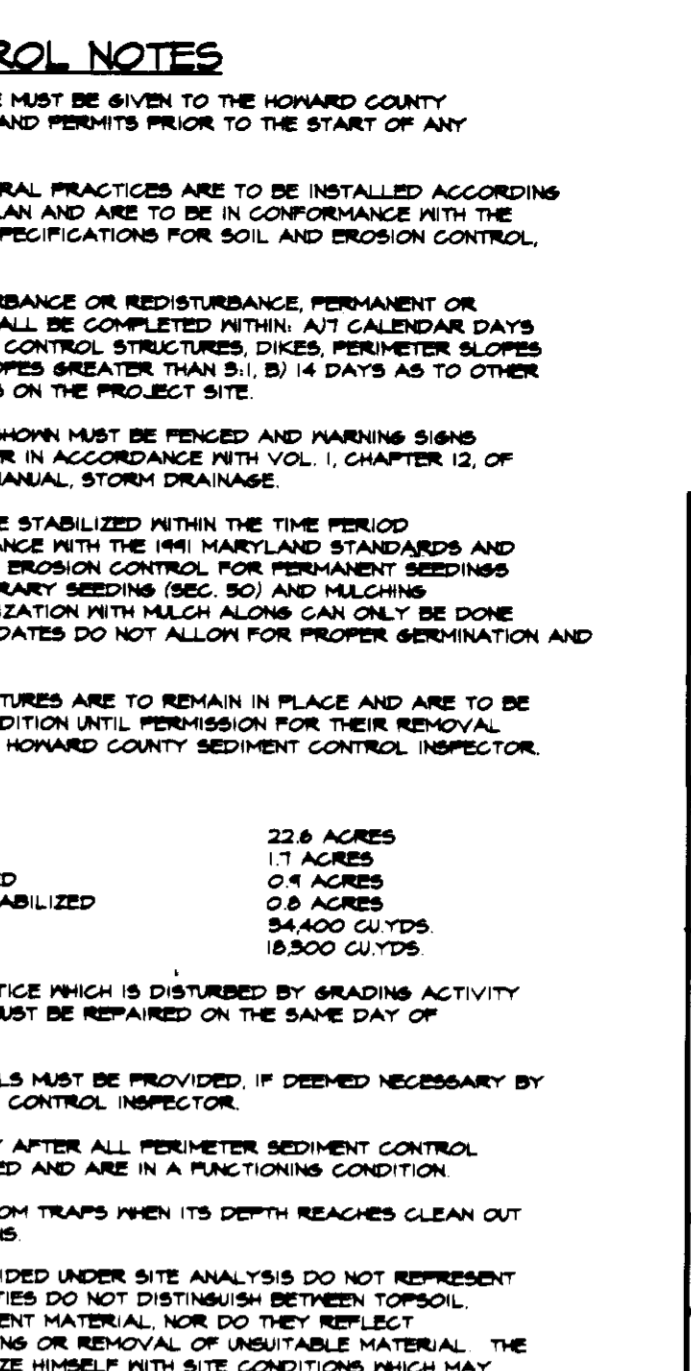
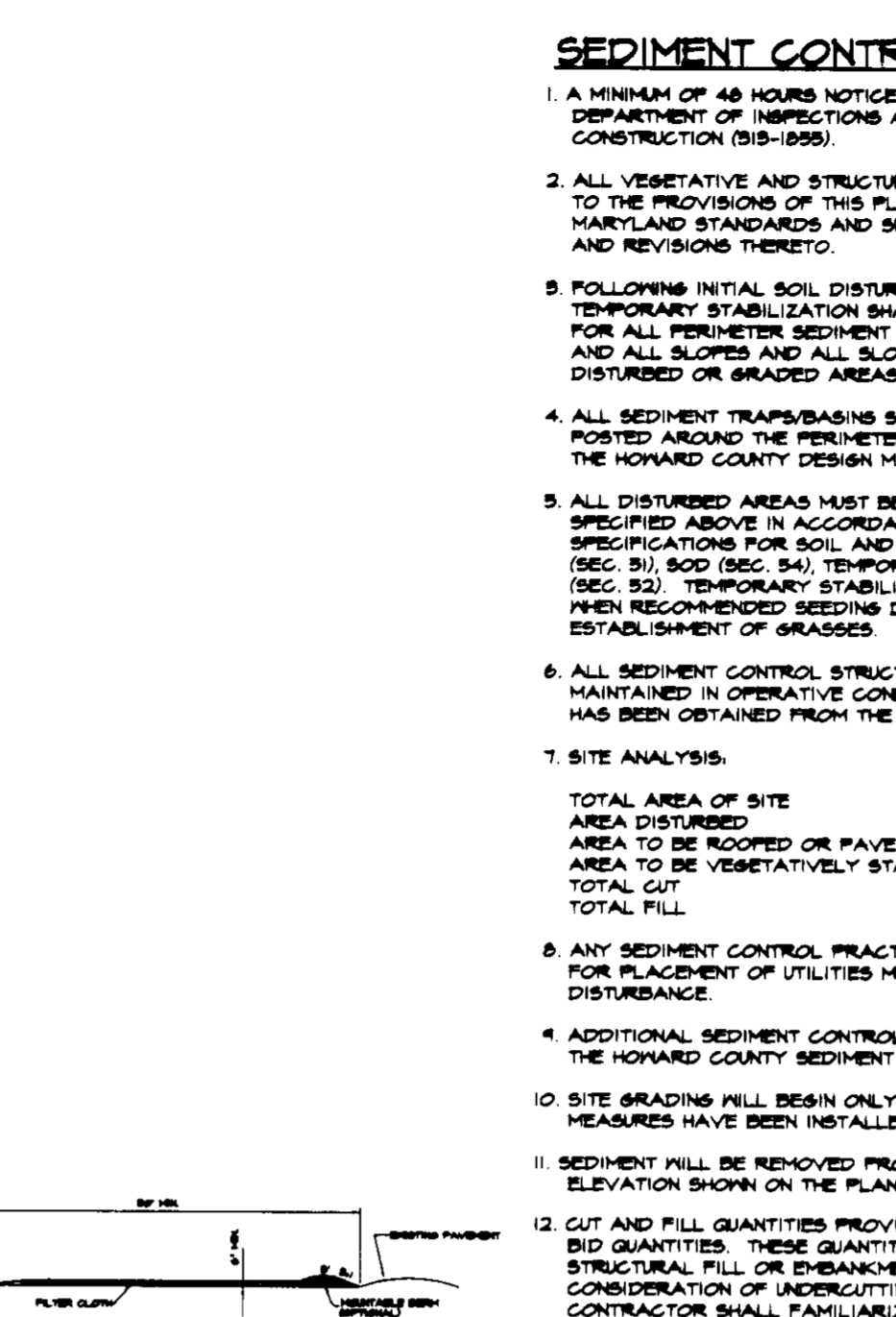
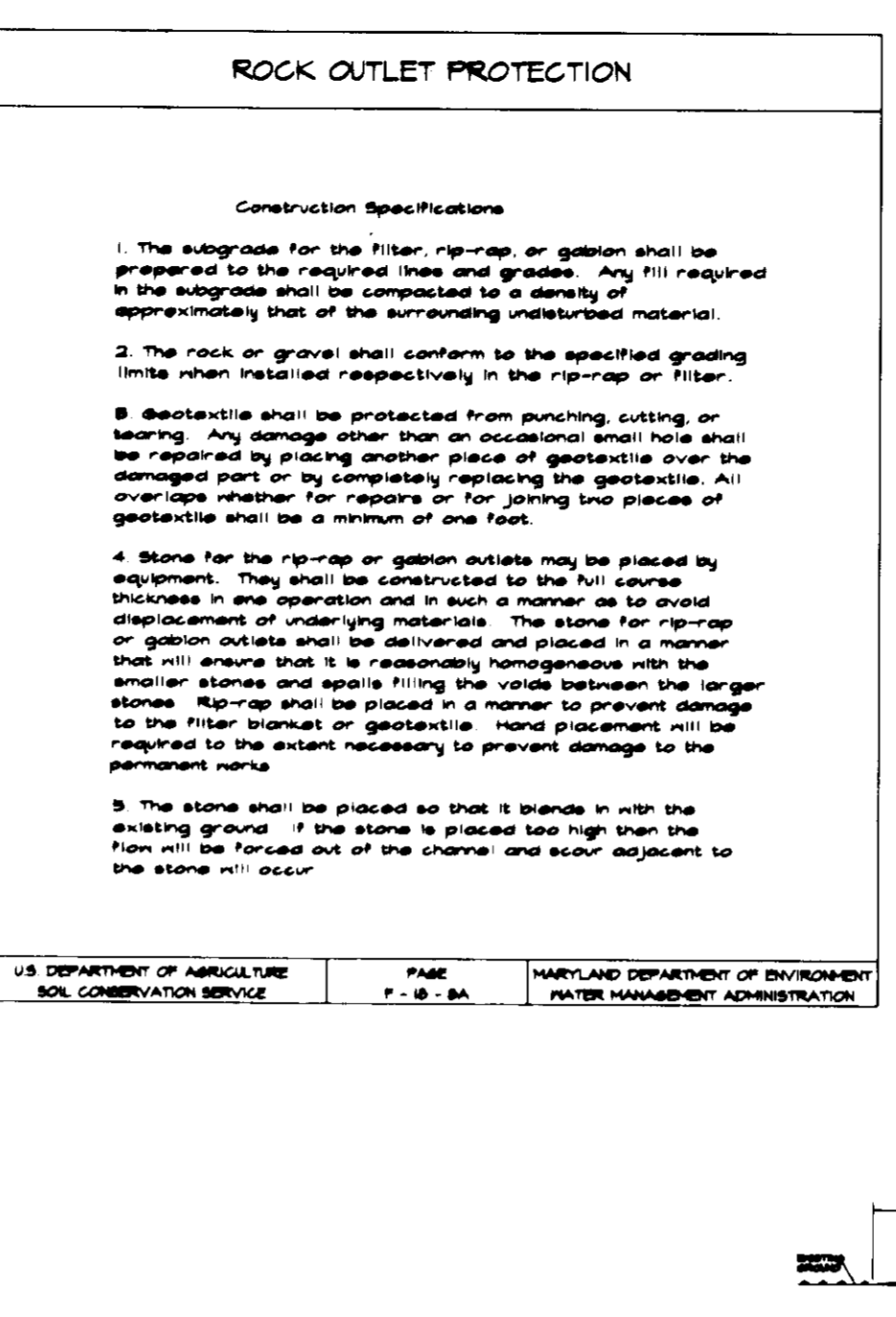
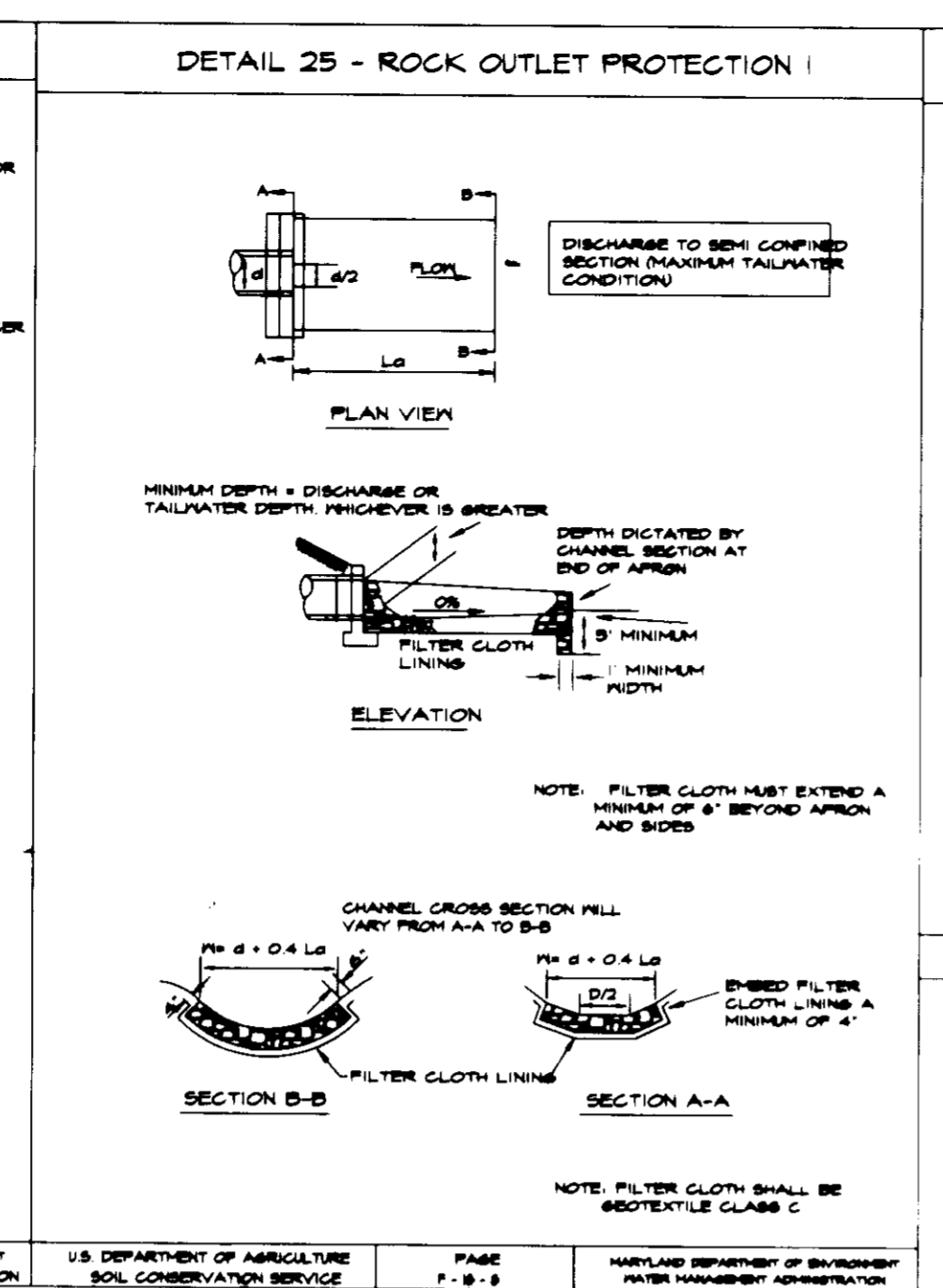
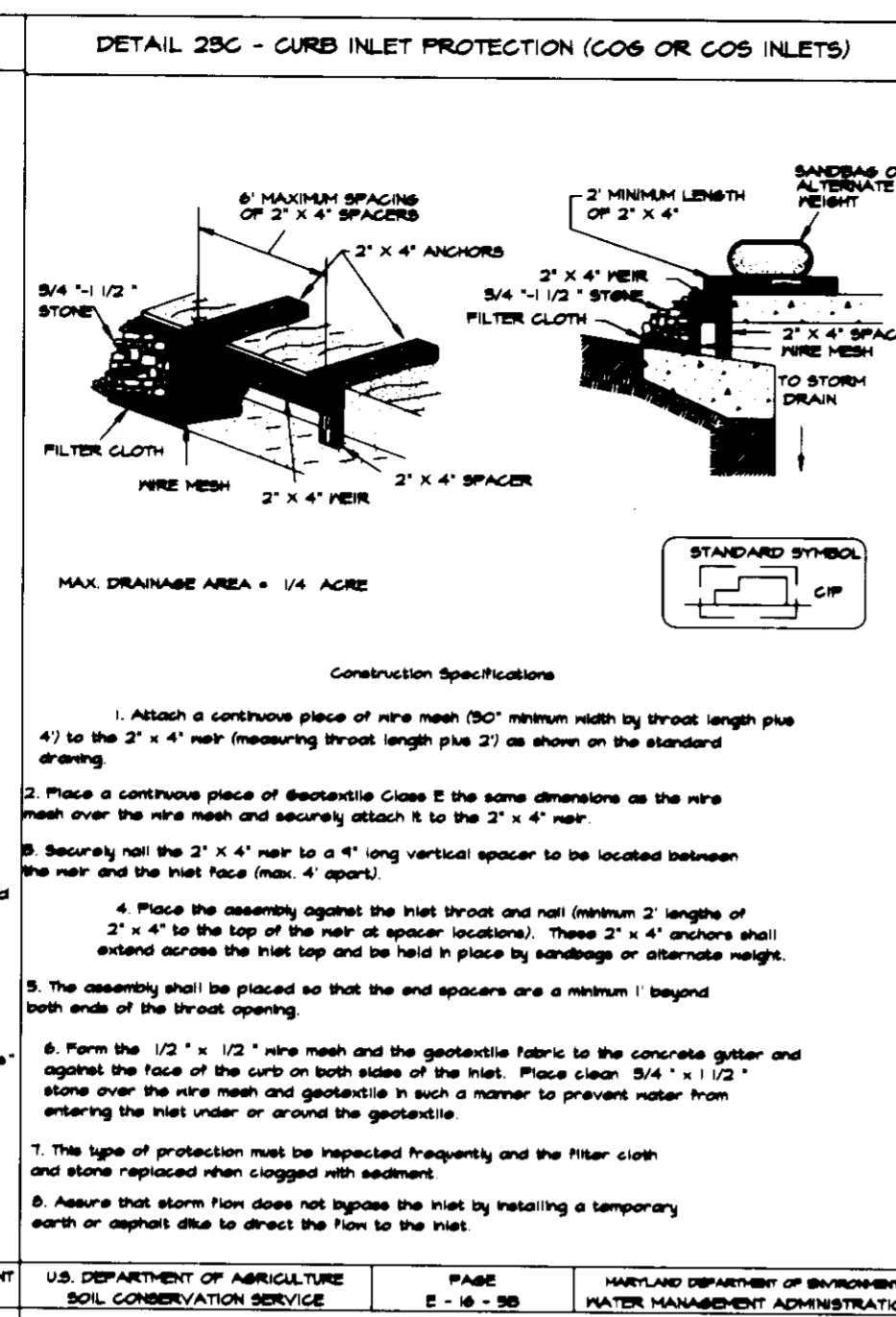
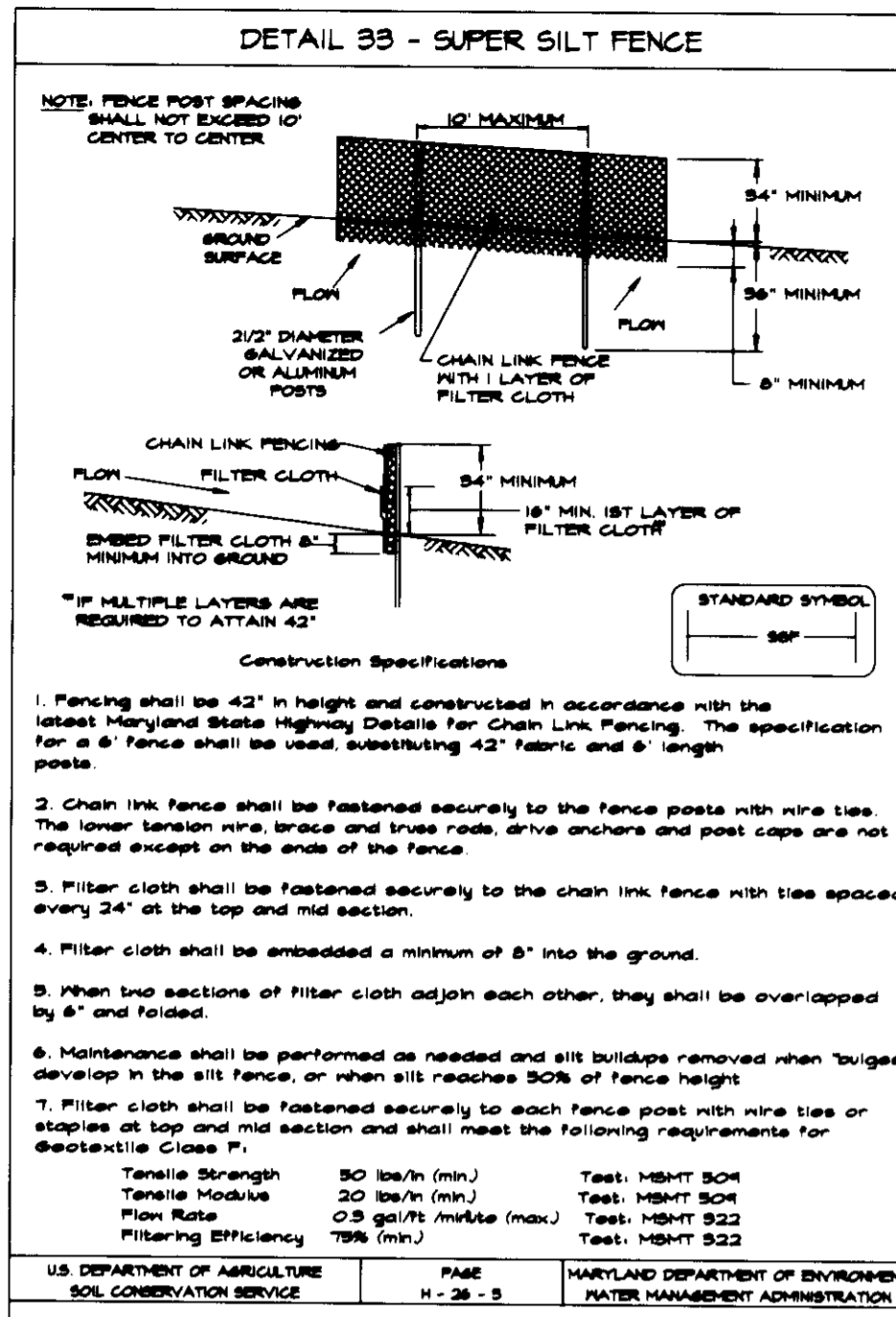
PROJECT: FREESTATE PETROLEUM

AREA: TAX MAP 35 PARCEL 254
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: STORM DRAIN PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

7.3.96 DATE	SOP-96-36 P1-1-95-23E WP-95-90
	DESIGNED BY: JTD
	DRAWN BY: BLW
	PROJECT NO. HOC0105501 SHTS DWG
	DATE: JULY 3, 1996
	SCALE: AS SHOWN
<i>J. Parekh</i> JAYKANT D. PAREKH #19146	DRAWING NO. 5 OF 8



Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

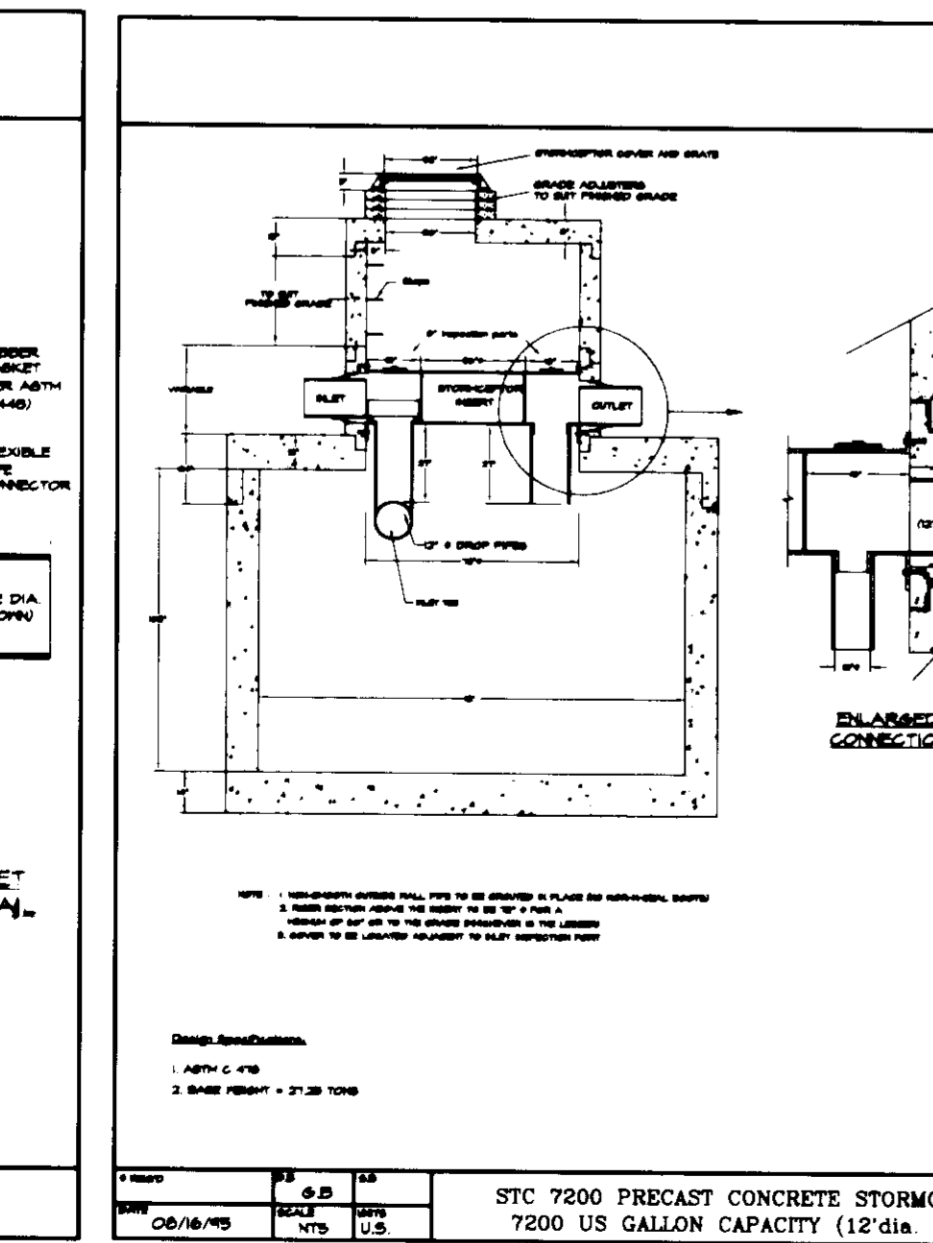
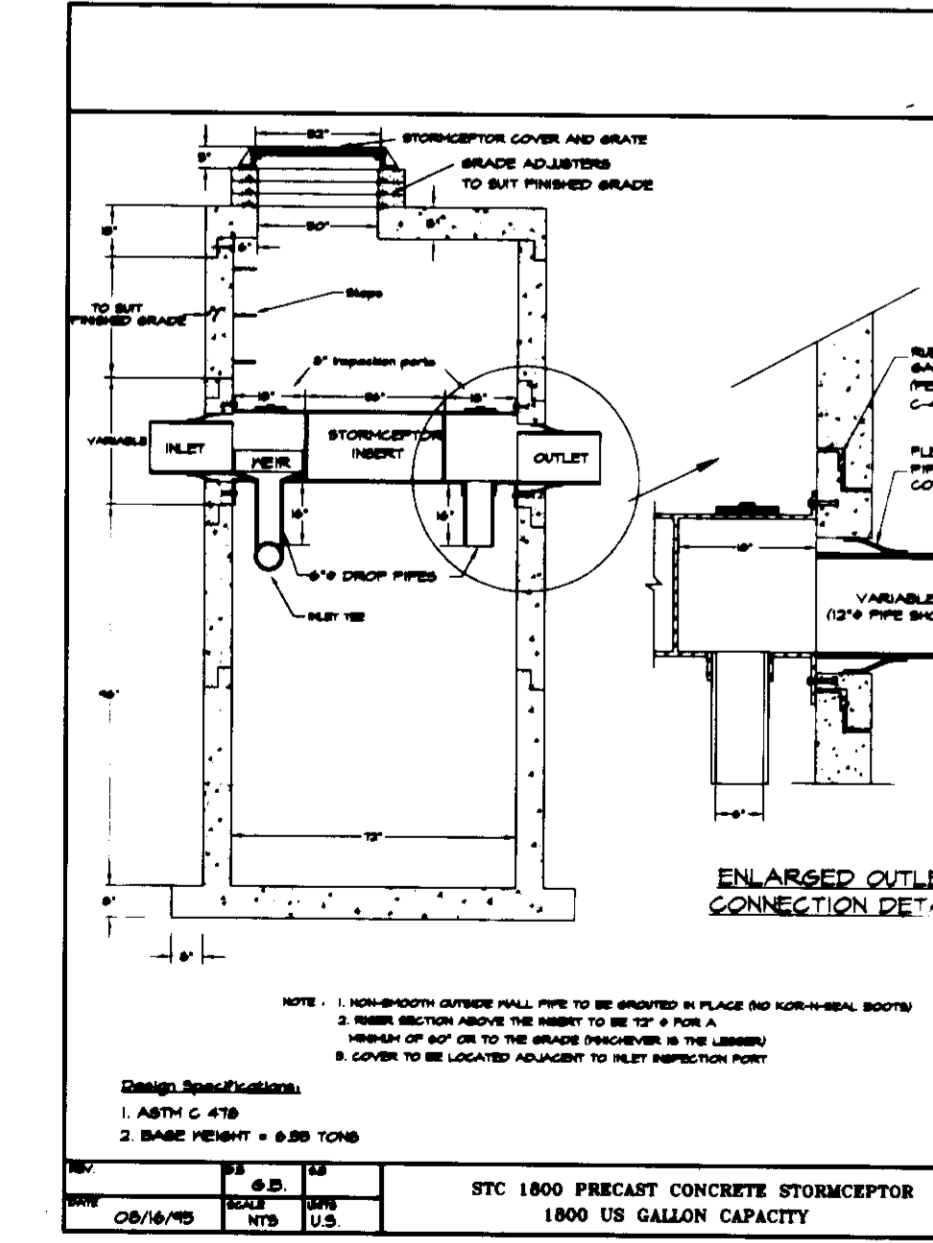
Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant

Phase	Rate	Application
1	100 lbs/acre	Pre-plant
2	100 lbs/acre	Post-plant



Concrete Stormceptor® Order Request Form

Contractor Information

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

Owner Information

Name: **FREESTATE PETROLEUM** Phone: (301) 924-2145 Fax: (301) 854-0761

Project Name: **FREESTATE PETROLEUM**

Approximate time frame until required delivery (weeks): **THREE**

Delivery Address: **Street 12170 CLARKSVILLE RD, City CLARKSVILLE, State MARYLAND, Zip Code 21029**

Designer Company: **RIEMER MUEGGE & ASSOC.** Designer Contact: **JOHN DEBATE** Phone: 410-997-8100 Fax: 410-997-9282

Concrete Stormceptor® Order Request Form

Contractor Information

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

Owner Information

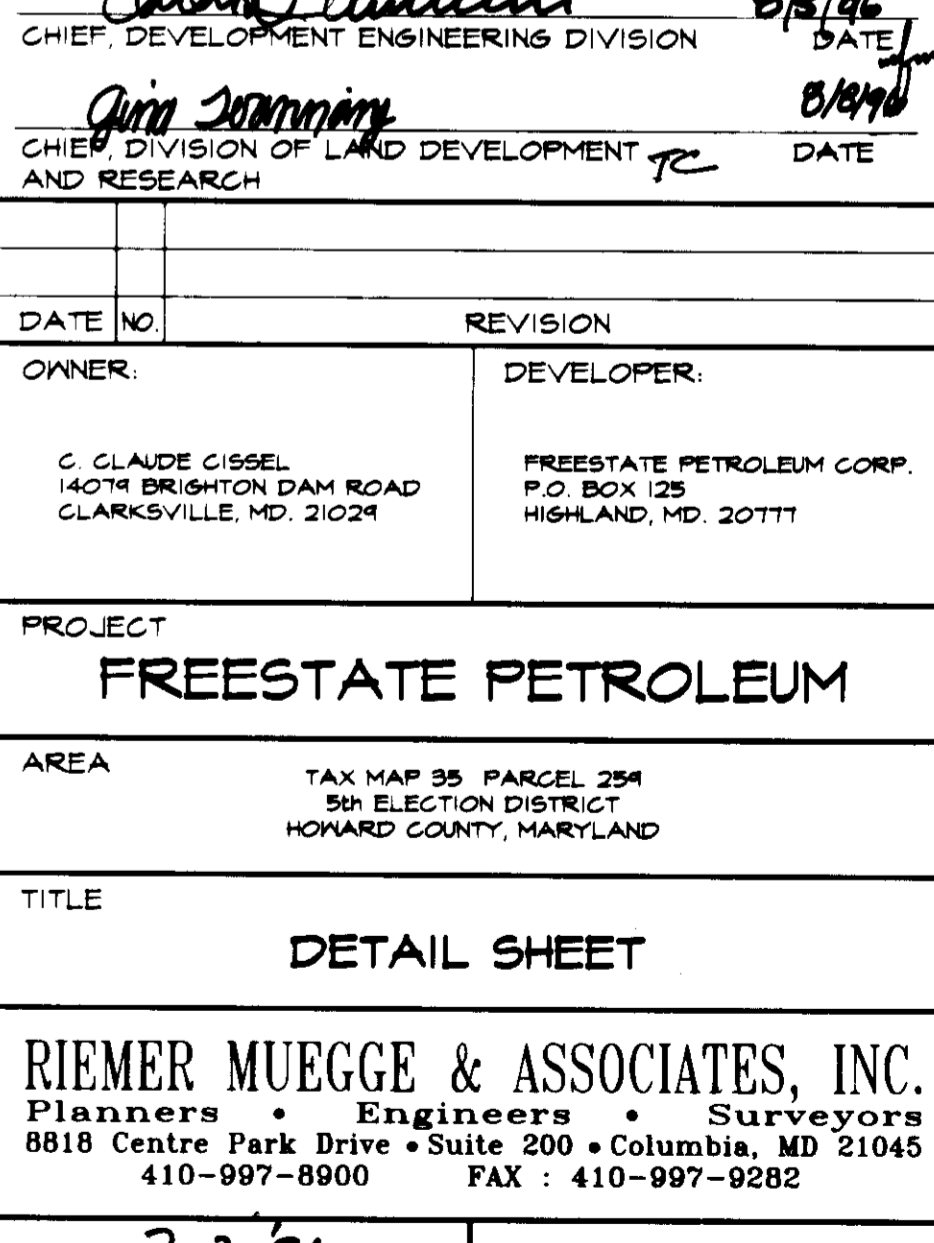
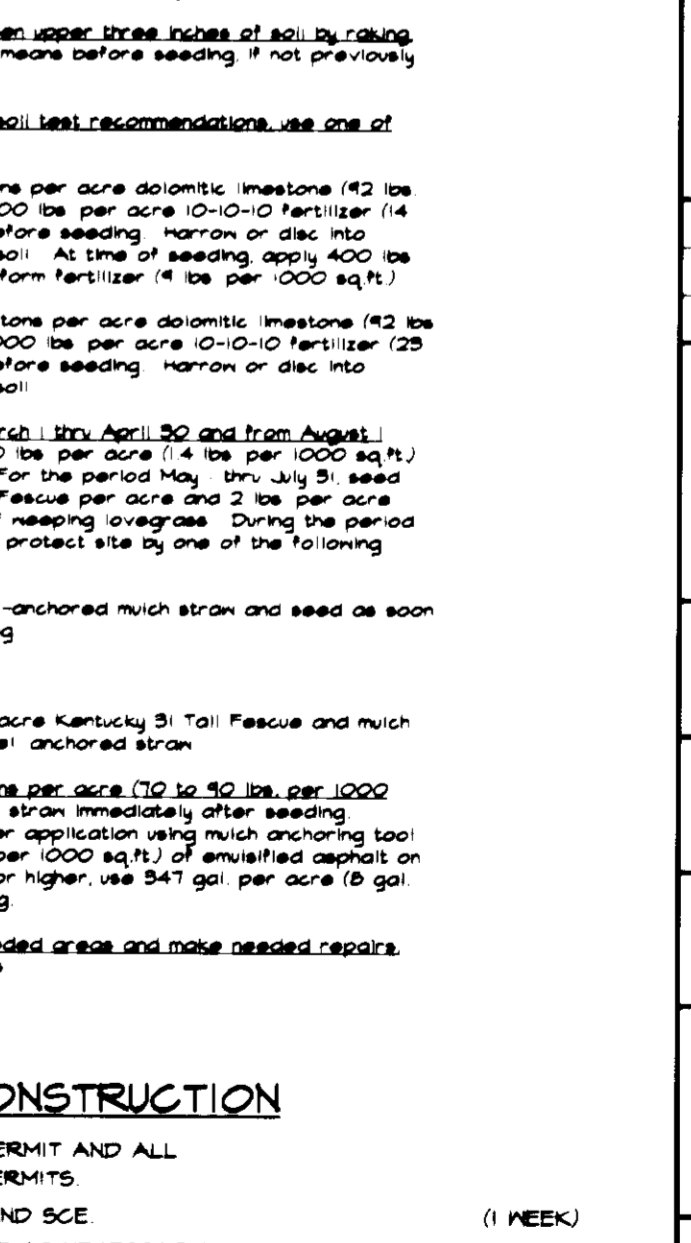
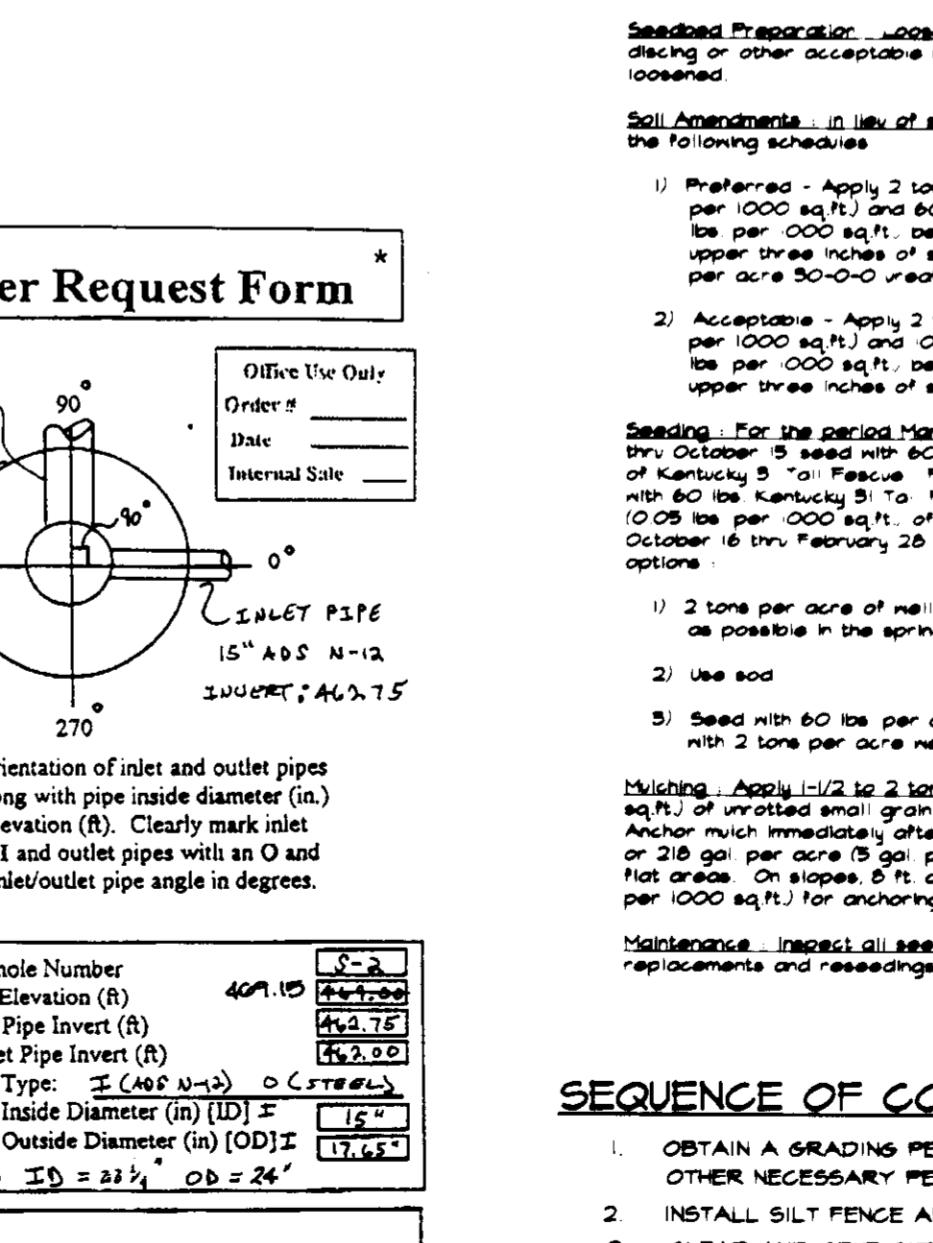
Name: **FREESTATE PETROLEUM** Phone: (301) 924-2145 Fax: (301) 854-0761

Project Name: **FREESTATE PETROLEUM**

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Designer Company: **RIEMER MUEGGE & ASSOC.** Designer Contact: **JOHN DEBATE** Phone: 410-997-8100 Fax: 410-997-9282



AS-BUILT CERTIFICATION

3/12/97

JAYKANT O. PAREKH #10148

AS-BUILT CERTIFICATION

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AS-BUILT CERTIFICATION

3/12/97

JAYKANT O. PAREKH #10148

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (818-1898).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERE TO.
- SOILS IN INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR ALL SLOPES AND ALL SLOPES GREATER THAN 3:1. BY 14 DAYS AS TO OTHER DISTURBED OR REDISTURBED AREAS.
- ALL SEDIMENT TREATMENT STRUCTURES MUST BE FENCED AND MARKING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 5), 800 (SEC. 5A), TEMPORARY SEEDINGS (SEC. 5B) AND MULCHING (SEC. 5C). TEMPORARY STABILIZATION WITH MULCH-ALONGS CAN 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 PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 - TOTAL AREA OF SITE: 22.8 ACRES
 - AREA TO BE ROOFED OR PAVED: 17 ACRES
 - TOTAL CUT: 0.4 ACRES
 - TOTAL FILL: 18300 CU YDS
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL. NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS. 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 FEET LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SWMF #1 MAINTENANCE SCHEDULE

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE DIVISION BY THE HOWARD COUNTY HEALTH DEPARTMENT.

APPROVED: *John M. ...* 8-6-96
HOWARD COUNTY HEALTH OFFICER DATE

BY THE DEVELOPER: *...* 7-2-96
DEVELOPER DATE

BY THE ENGINEER: *J. Farrell* 7-3-96
ENGINEER DATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONSERVATION 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.

TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
- Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding if not previously loosened.
- Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs per 1000 sq ft).
- Seeding: For periods March thru April 30 and from August 15 thru November 30, seed with 2-1/2 bushels per acre of annual ryegrass (2.5 lbs per 1000 sq ft). For the period May 1 thru August 14, seed with 5 lbs per acre of meadow ovarygrass (0.07 lbs per 1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored mulch and seed as soon as possible in the spring or use sod.
- Mulching: Apply 1/2 to 2 tons per acre (10 to 50 lbs per 1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2/8 gal per acre (9 gal per 1000 sq ft) of emulsified asphalt on flat areas. On slopes 6 ft or higher, use 5/4 gal per acre (6 gal per 1000 sq ft) for anchoring.
- Refer to the 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate redisturbance where a permanent, anchored vegetative cover is needed.
- Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding if not previously loosened.
- Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
 - Preferred: Apply 2 tons per acre dolomitic limestone (42 lbs per 1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs per 1000 sq ft) before seeding. For the period May 1 thru July 31, seed with 80 lbs per acre Kentucky 31 "Fescue" per acre and 2 lbs per acre (0.08 lbs per 1000 sq ft) of meadow ovarygrass. During the period October 16 thru February 28, protect site by one of the following options:
 - 2 tons per acre of well-anchored mulch and seed as soon as possible in the spring.
 - Use sod.
 - Seed with 60 lbs per acre Kentucky 31 "Fescue" and mulch with 2 tons per acre.
 - Mulching: Apply 1/2 to 2 tons per acre (10 to 50 lbs per 1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2/8 gal per acre (9 gal per 1000 sq ft) of emulsified asphalt on flat areas. On slopes 6 ft or higher, use 5/4 gal per acre (6 gal per 1000 sq ft) for anchoring.
 - Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT AND ALL OTHER NECESSARY PERMITS. (1 WEEK)
- INSTALL SILT FENCE AND SITE CLEAR AND GRUB SITE AS NECESSARY. (3 WEEKS)
- ROUGH GRADE THE SITE AND INSTALL UTILITIES, TANKS, PUMP ISLANDS, AND INLET PROTECTION. (3 MONTHS)
- INSTALL CURB AND GUTTER AND BEGIN PAVING. (1 MONTH)
- STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1 WEEK)
- WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS.

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Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 • FAX: 410-997-9282

7-3-96
DATE

DESIGNED BY: JTD
DRAWN BY: BLN
PROJECT NO: H000105501
SHT: 6.DWG
DATE: JULY 3, 1996
SCALE: AS SHOWN
DRAWING NO. 6 OF 8



3/12/97
DATE

JAYKANT O. PAREKH #10148

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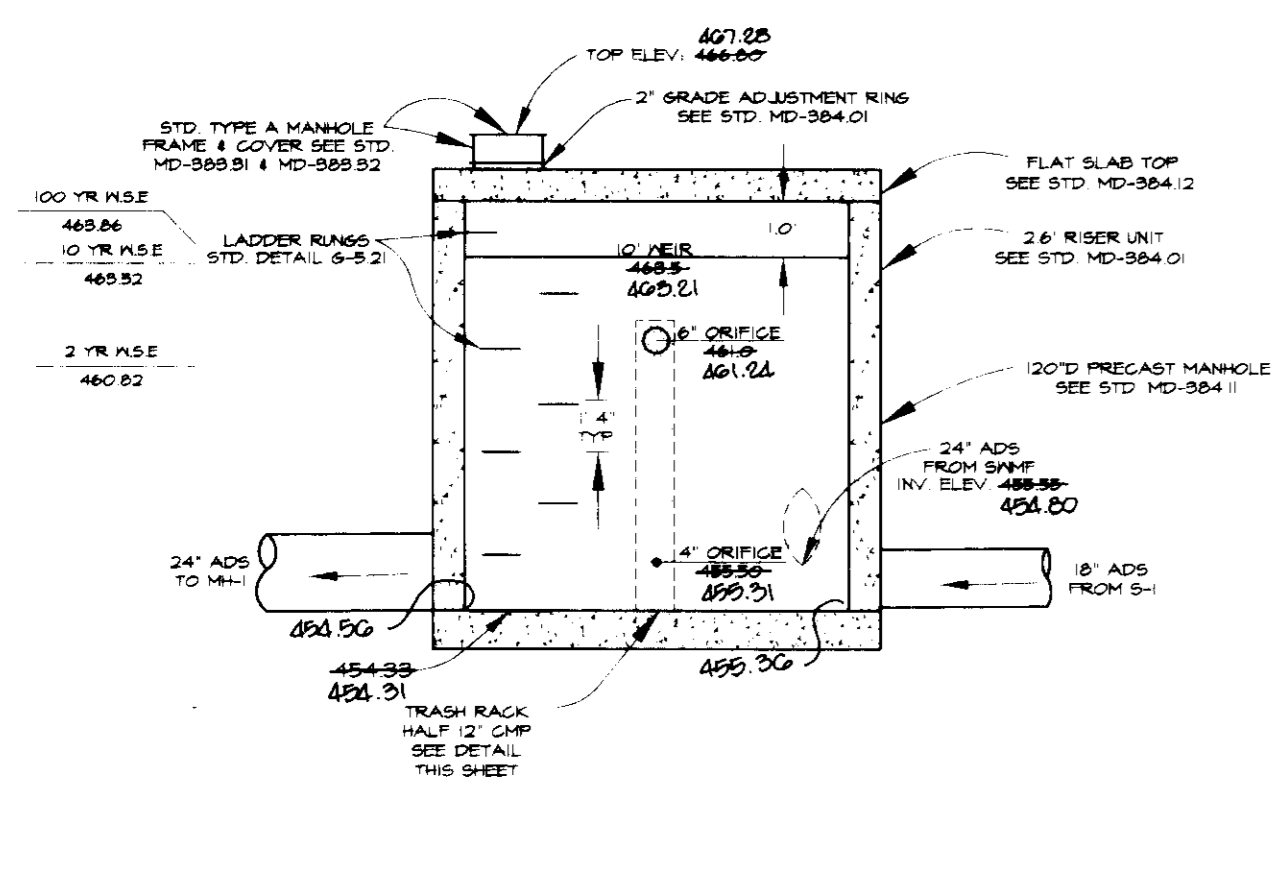
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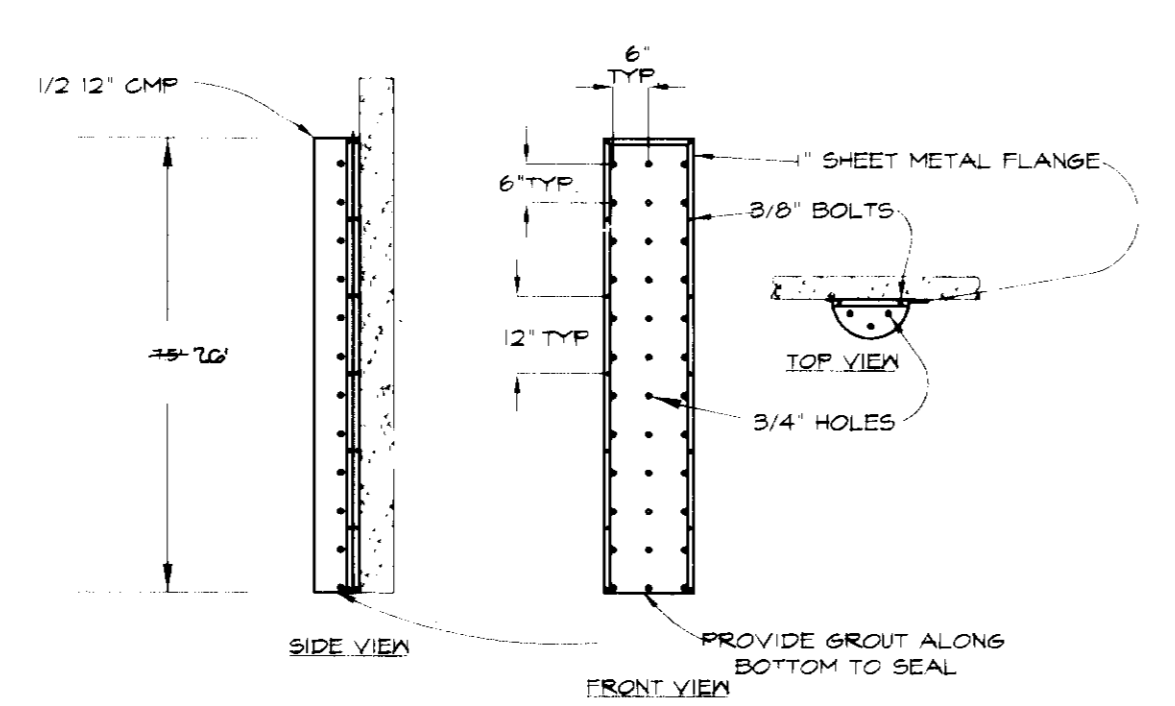
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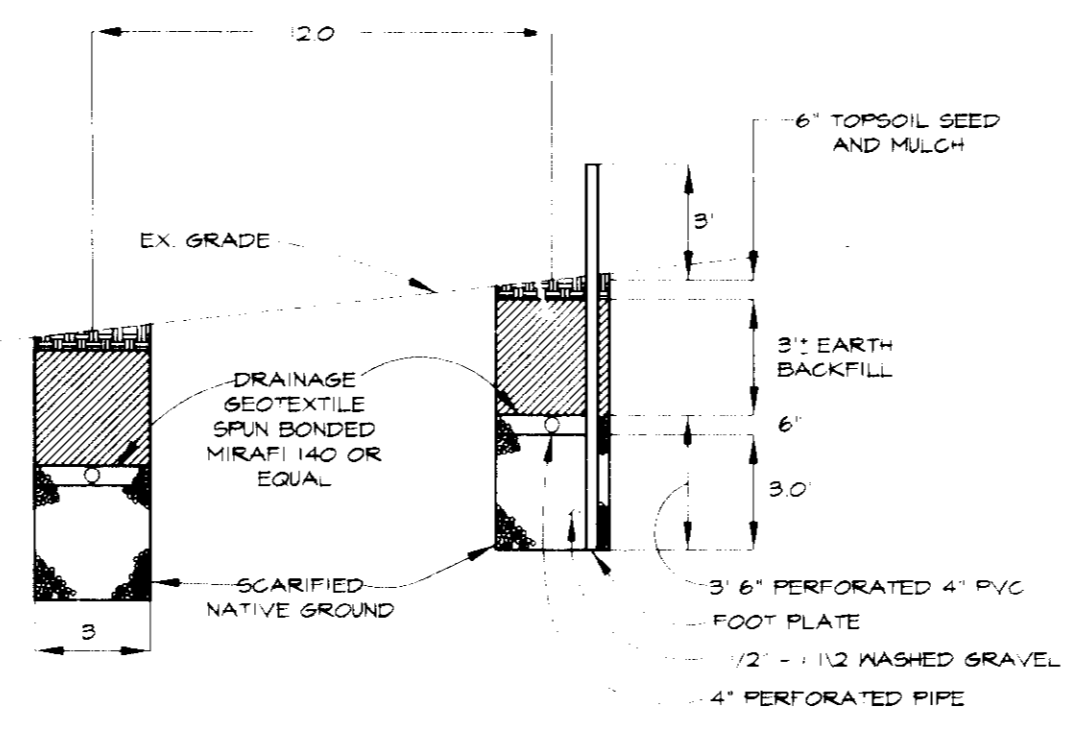
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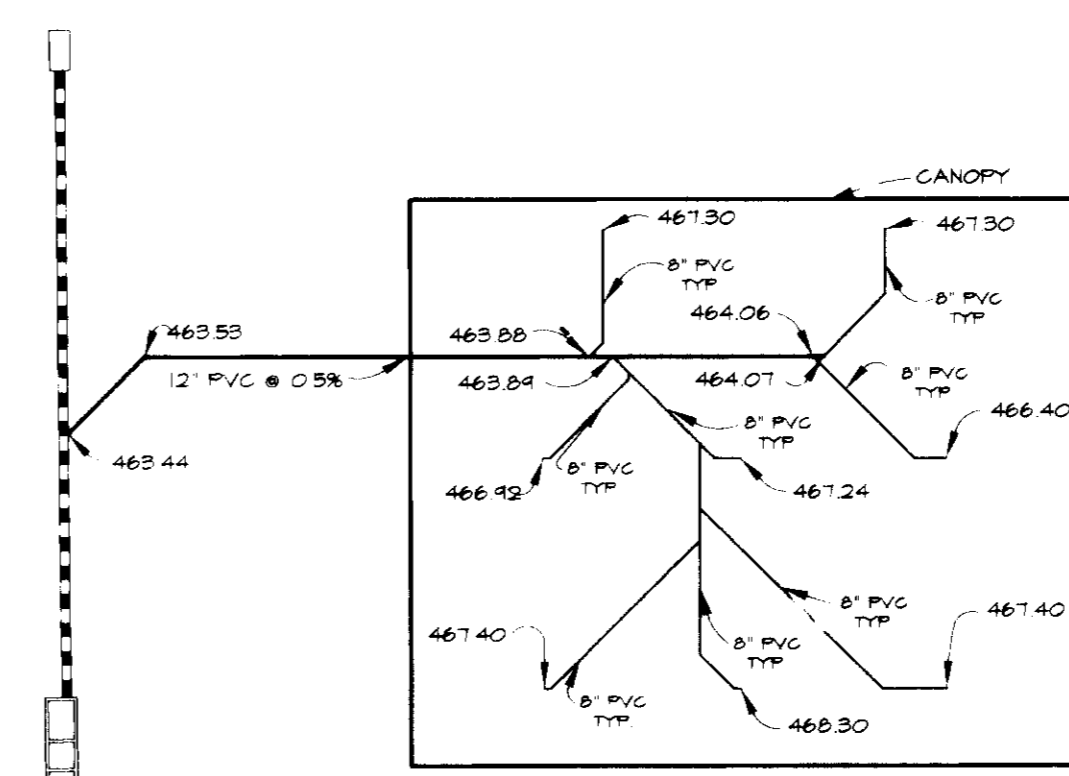
SECTION AA
SCALE: 1" = 5'



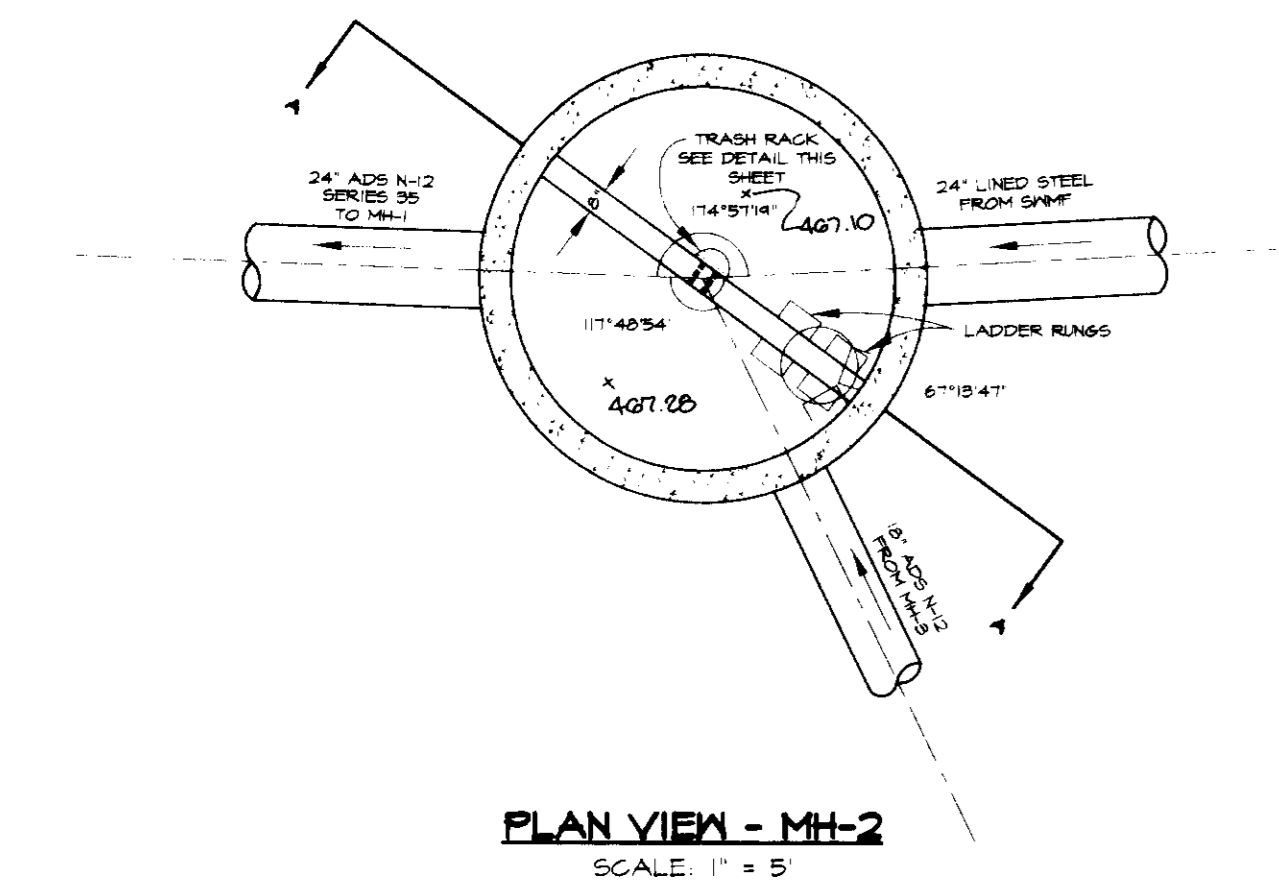
TRASH RACK DETAIL
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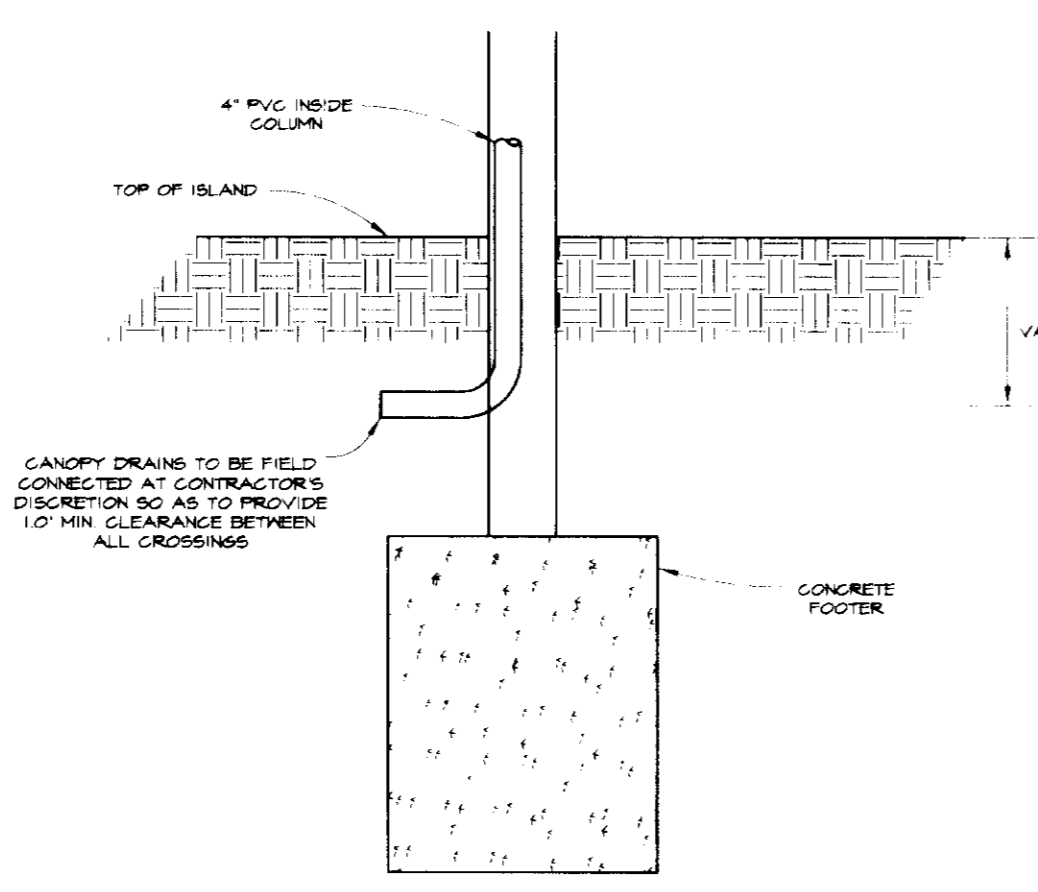
SEPTIC TRENCH CROSS SECTION
SCALE: 1" = 5'



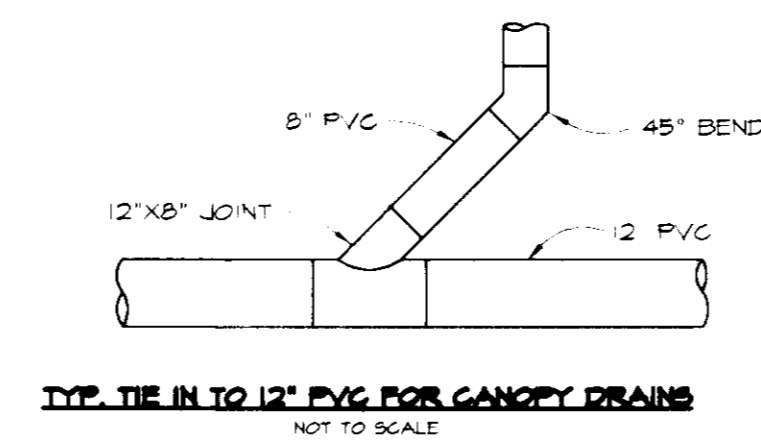
CANOPY DRAIN INVERT DETAIL
SCALE: 1" = 30'



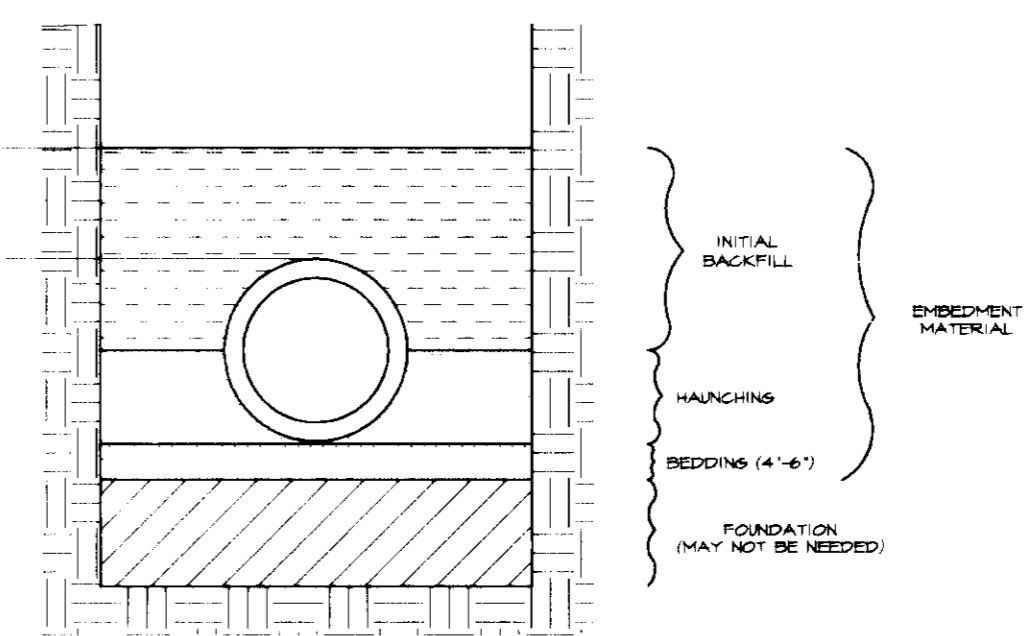
PLAN VIEW - MH-2
SCALE: 1" = 5'



CANOPY COLUMN AND DRAIN DETAIL
NO SCALE



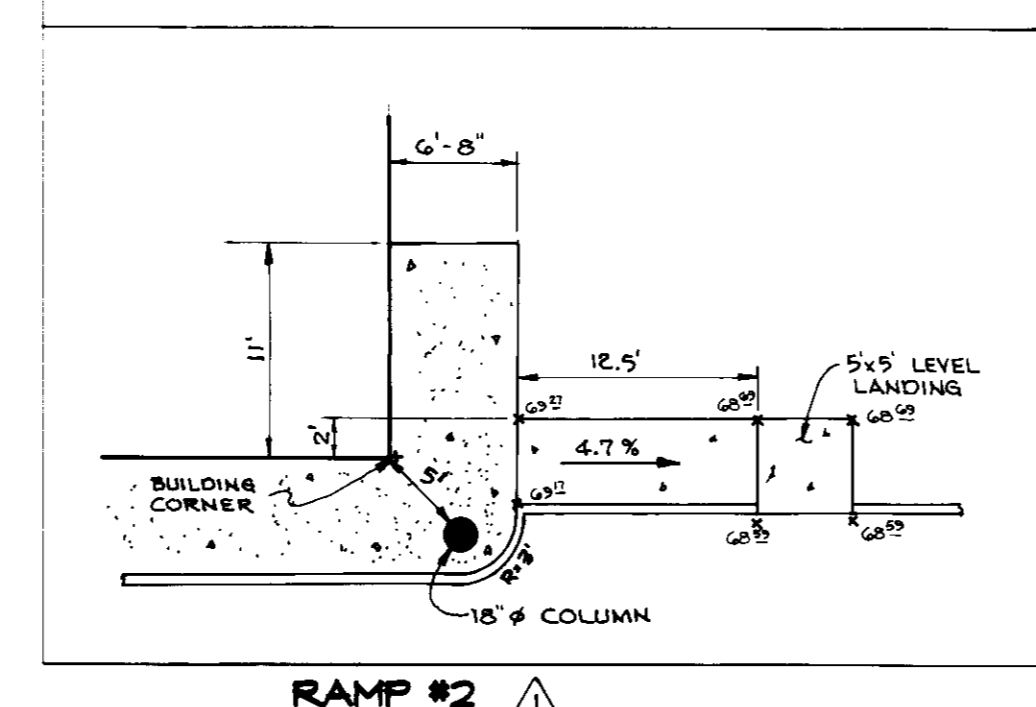
TYP. TIE IN TO 12" PVC FOR CANOPY DRAINS
NOT TO SCALE



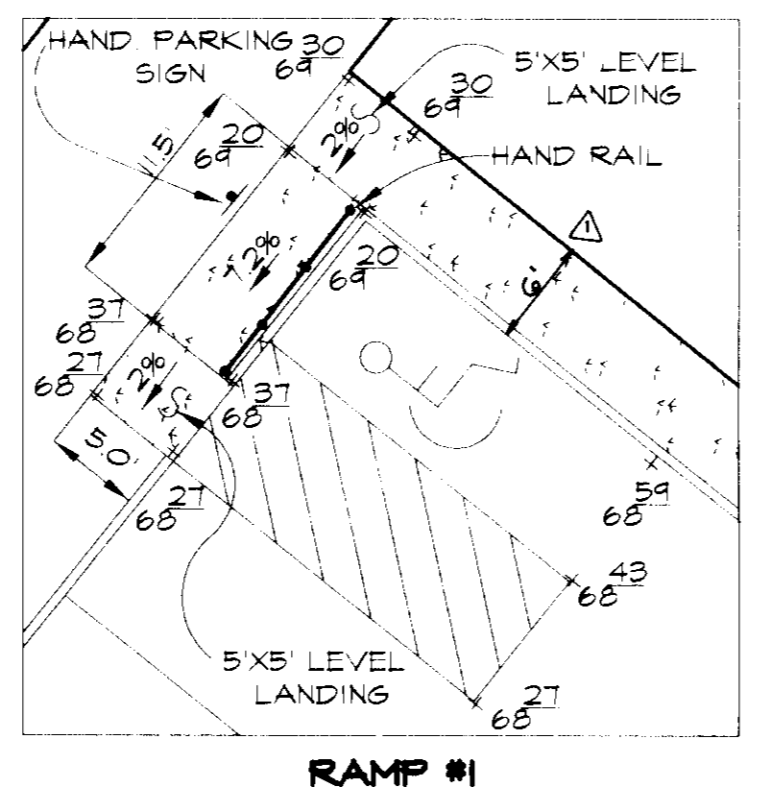
BEDDING DETAIL
NO SCALE

SOIL BORING LOG

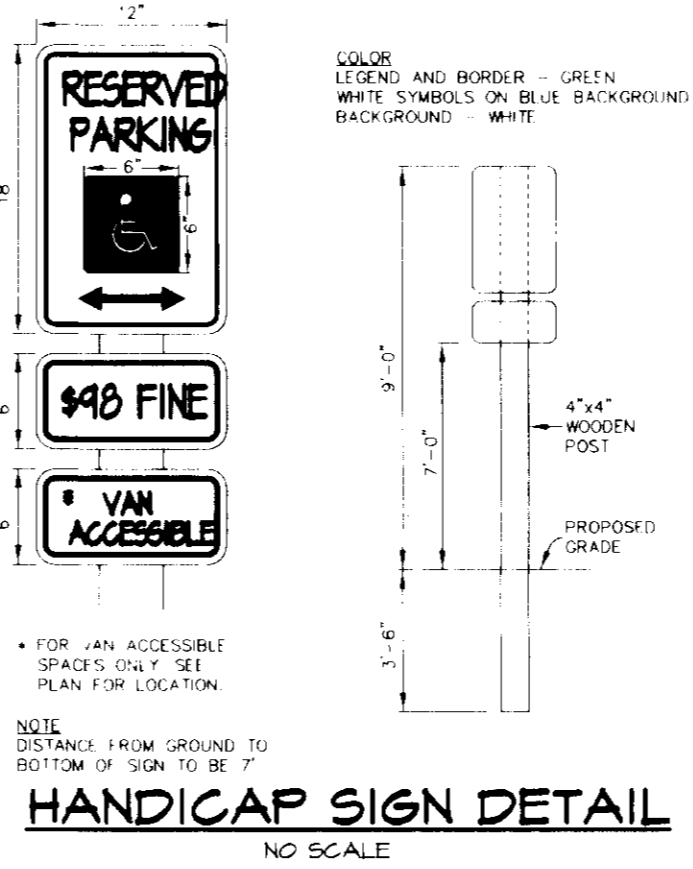
<p>TP-1 NO SCALE</p> <p>0' RED TO BROWN VERY MOIST TO WET, STIFF CLAYEY SILT, LITTLE SAND, LENS OF ASPHALT AT 3.0' (FULL)</p> <p>4' RED VERY MOIST TO WET, MICACEOUS FINE SANDY SILT, TRACE CLAY (NL)</p> <p>14' BOTTOM OF HOLE AT 14.0'</p>	<p>TP-4 NO SCALE</p> <p>0' BROWN TO GRAY-BROWN MOIST TO WET, LOOSE TO MEDIUM DENSE SILT, LITTLE FINE SAND, TRACE CLAY, ORGANICS, TRICE STAMP CONCRETE, NODD PIECES (NL)</p> <p>10' NOTE: MOST DEBRIS LOCATED 0'-4.0'</p> <p>10' RED-BROWN MOIST TO VERY MOIST, MEDIUM DENSE MICACEOUS SILT, TRACE SAND AND CLAY (NL)</p> <p>11' BOTTOM OF HOLE AT 11.0'</p>	<p>TP-7 NO SCALE</p> <p>0' MOTTLED RED AND GRAY MOIST TO VERY MOIST, LOOSE TO MEDIUM DENSE MICACEOUS SILT, LITTLE FINE SAND, TRACE CLAY (NL)</p> <p>10' BOTTOM OF HOLE AT 10.0'</p>
<p>TP-2 NO SCALE</p> <p>0' BROWN TO GRAY-BROWN VERY MOIST, LOOSE SILT, TRACE SAND, ROOTS, A CONCRETE FRAGMENT (ML/FILL)</p> <p>3' RED-BROWN MOIST TO VERY MOIST, MEDIUM DENSE MICACEOUS SILT, TRACE SAND (NL)</p> <p>6' BOTTOM OF HOLE AT 6.0'</p>	<p>TP-5 NO SCALE</p> <p>0' TOPSOIL</p> <p>1' RED VERY MOIST TO WET, MICACEOUS SILT, LITTLE FINE SAND, TRACE CLAY (NL)</p> <p>4' BOTTOM OF HOLE AT 4.0'</p>	<p>TP-8 NO SCALE</p> <p>0' GRAY-BROWN MOIST TO VERY MOIST, LOOSE MICACEOUS SILT, LITTLE SAND, LITTLE SAND, PIECES OF ASPHALT AND CONCRETE (ML/FILL)</p> <p>10' BROWN MOIST, MEDIUM DENSE MICACEOUS SILT, LITTLE FINE SAND (NL)</p> <p>11' BOTTOM OF HOLE AT 11.0'</p>
<p>TP-3 NO SCALE</p> <p>0' WHITE TO BROWN MOIST, MEDIUM DENSE GRAVEL, SOME SAND, TRACE SILT (SH/BAF FILL)</p> <p>1' RED-BROWN TO BROWN VERY MOIST, MICACEOUS SILT, LITTLE SAND, TRACE CLAY (NL)</p> <p>5' BOTTOM OF HOLE AT 5.0'</p>	<p>TP-6 NO SCALE</p> <p>0' TOPSOIL</p> <p>2' YELLOW-BROWN VERY MOIST, SOFT SILTY CLAY (GL) CLAY (NL)</p> <p>4' GRAY LITTLE BROWN VERY MOIST TO WET, LOOSE TO MEDIUM DENSE MICACEOUS SILT, TRACE SAND (NL)</p> <p>10' BOTTOM OF HOLE AT 10.0'</p>	



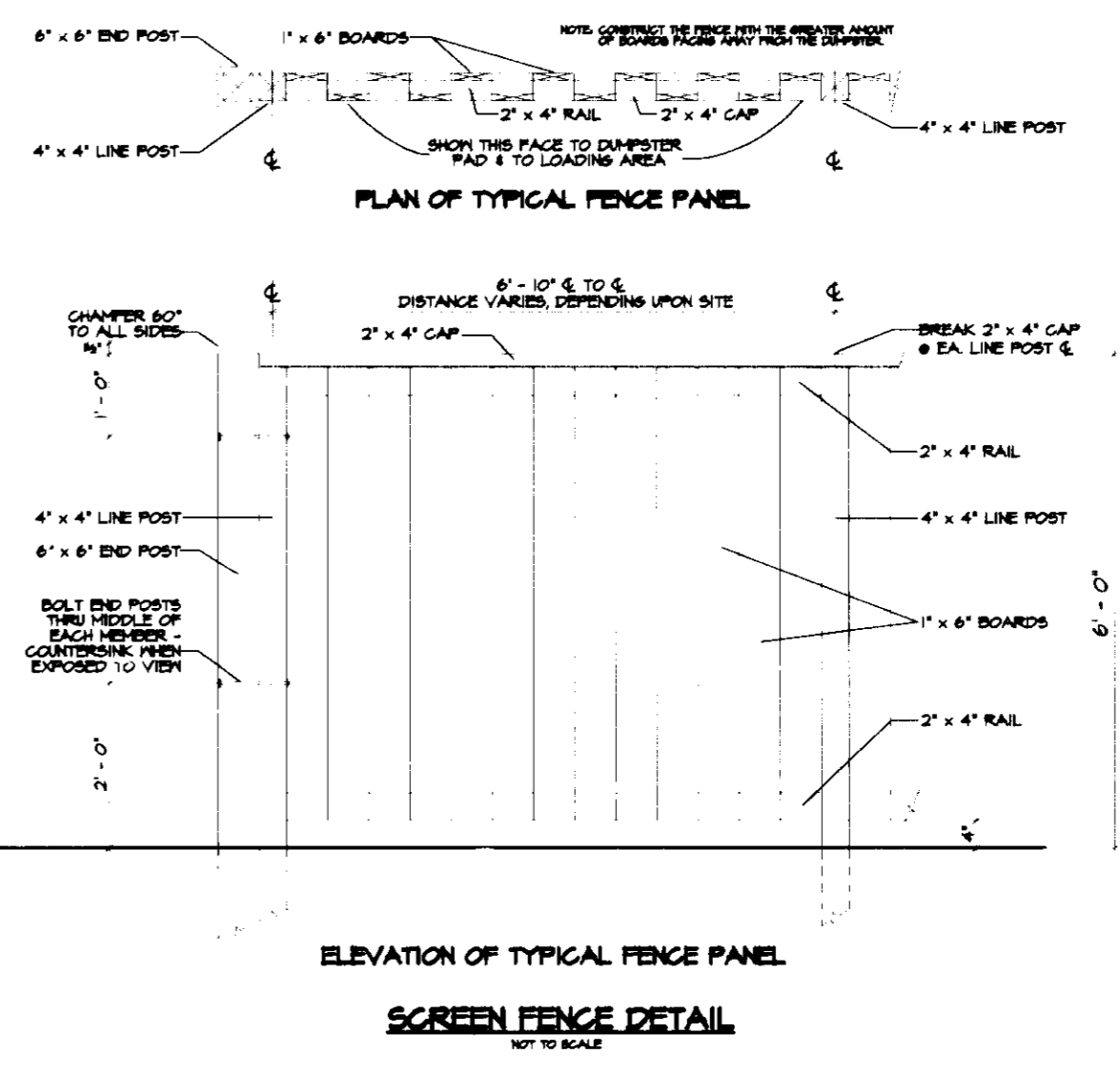
RAMP #2



HANDICAP RAMP DETAILS
SCALE: 1" = 10'



HANDICAP SIGN DETAIL
NO SCALE



SCREEN FENCE DETAIL
NO SCALE

AS-BUILT CERTIFICATION

STATE OF MARYLAND
PROFESSIONAL ENGINEER & SURVEYOR

J. Farrell
5.12.97

JAYKANT D. PAREKH #19148
DATE

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

Jay M. Boyd #11156
HOWARD COUNTY HEALTH OFFICER
P-6-96
DATE

BY THE DEVELOPER:
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 SHALL EMPLOY A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. JHK 7/31/96

H. Williams #7-2-96
DEVELOPER
DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I AM NOT PROVIDING DEVELOPER WITH A GUARANTEE OF PERFORMANCE. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. JHK 7/31/96

J. Farrell #7-3-96
ENGINEER
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL. JHK 7/31/96

H. Williams #7/31/96
NATURAL RESOURCES CONSERVATION SERVICE
DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. JHK 7/31/96

John R. Polston #7/31/96
HOWARD SOIL CONSERVATION DISTRICT
DATE

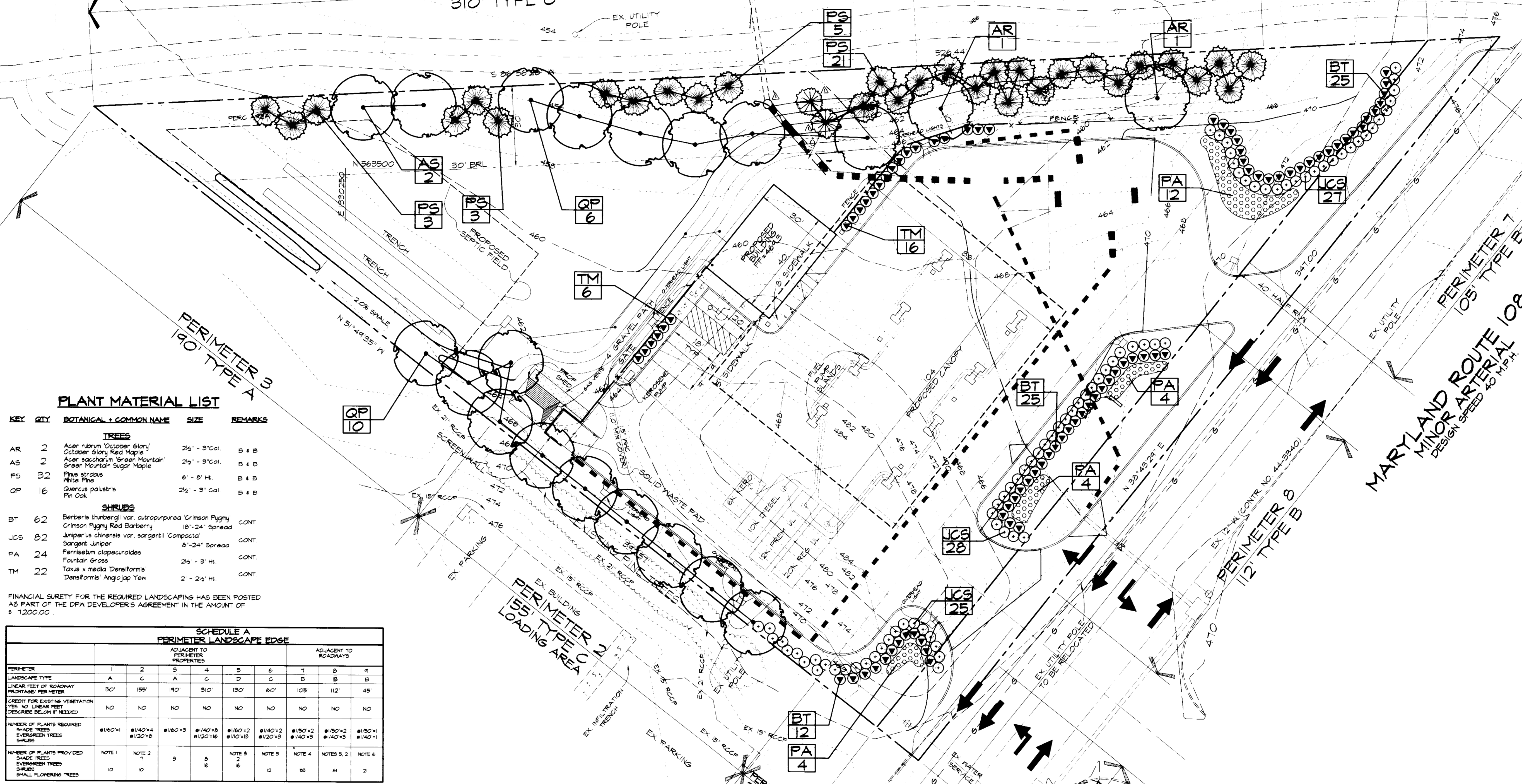
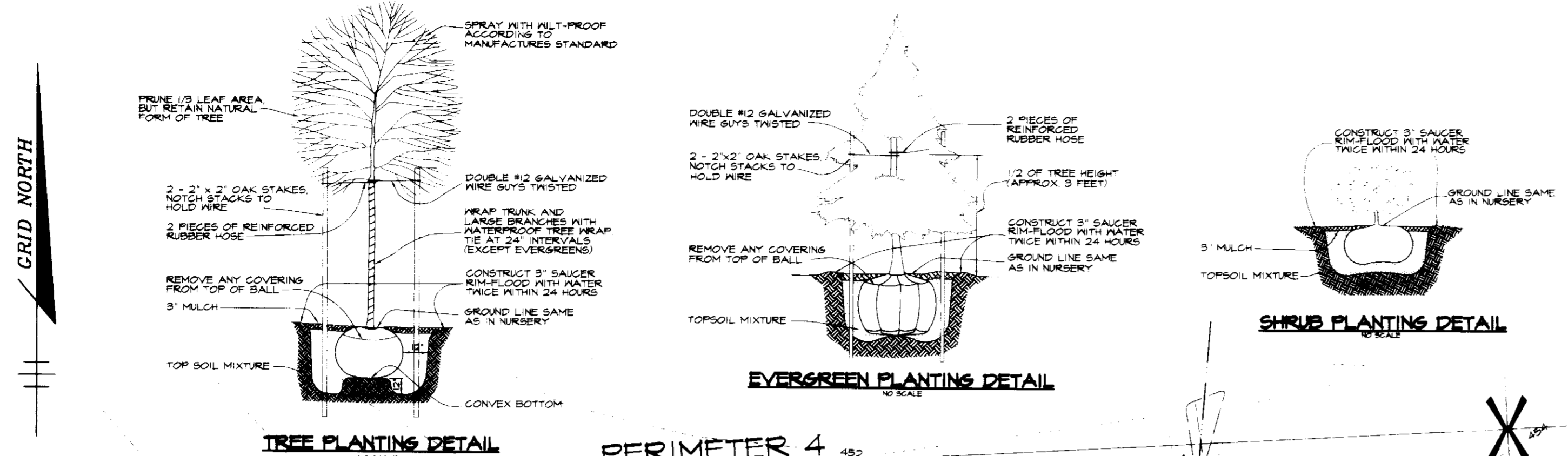
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Jay M. Boyd #8/19/96
DIRECTOR
DATE

Chad Dammann #6/5/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

Jim Summary #8/19/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
DATE

12-30-96	REWORKED RAMP 2 - ADDED 6" DIMENSION TO RAMP 1.	REVISION
OWNER:	DEVELOPER:	
C. CLAUDE GISSEL 14074 BRIGHTON DAM ROAD CLARKSVILLE, MD 21024	FREESTATE PETROLEUM CORP. P.O. BOX 125 HIGHLAND, MD 20711	
PROJECT:	AREA:	
FREESTATE PETROLEUM	TAX MAP 95 PARCEL 2511 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:	DETAIL SHEET	
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282		
7-3-96 DATE	SDP-96-36 BA-95-23E MP 45-90	DESIGNED BY: JLD
		DRAWN BY: BLM
		PROJECT NO: HCC0105501 SHITTING
		DATE: JULY 3, 1996
		SCALE: AS SHOWN
J. Farrell JAYKANT D. PAREKH #19148		DRAWING NO. 1 OF 8



PLANT MATERIAL LIST

KEY	QTY	BOTANICAL + COMMON NAME	SIZE	REMARKS
TREES				
AR	2	Acer rubrum 'October Glory' / October Glory Red Maple	2 1/2" - 3" Cal.	B + B
AS	2	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2 1/2" - 3" Cal.	B + B
PS	32	Pinus strobus / White Pine	6' - 8' Ht.	B + B
QP	16	Quercus palustris / Pin Oak	2 1/2" - 3" Cal.	B + B
SHRUBS				
BT	62	Berberis thunbergii var. atropurpurea / Crimson Pygmy / Crimson Pygmy Red Barberry	18"-24" Spread	CONT.
JCS	82	Juniperus chinensis var. sargentii / Compacta / Sargent Juniper	18"-24" Spread	CONT.
FA	24	Fernisium alpestris / Fountain Grass	2 1/2" - 3" Ht.	CONT.
TM	22	Taxus x media 'Densiformis' / Densiformis / Angiojap Yew	2' - 2 1/2' Ht.	CONT.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 7,200.00

SCHEDULE A PERIMETER LANDSCAPE EDGE

PERIMETER	ADJACENT TO PERIMETER PROPERTIES				ADJACENT TO ROADWAYS			
	1	2	3	4	5	6	7	8
LANDSCAPE TYPE	A	C	A	C	D	C	B	B
LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	30'	195'	190'	310'	130'	60'	105'	112' 45"
CREDIT FOR EXISTING VEGETATION YES/NO LINEAR FEET DESCRIBE BELOW IF NEEDED	NO	NO	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	#180+1	#140+4 #120+3	#180+3	#140+8 #120+6	#180+2 #140+3	#180+2 #140+3	#180+2 #140+3	#180+4 #140+11
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS SMALL FLOWERING TREES	NOTE 1	NOTE 2	3	8 6	NOTE 5 2 16	NOTE 3 2 12	NOTE 4 30	NOTE 6 #1 2

SUBSTITUTION NOTES

- 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 SHADE TREE ALONG PERIMETER 1.
- 3 SHADE TREES HAVE BEEN SUBSTITUTED FOR 6 EVERGREEN TREES ALONG PERIMETER 2. 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 EVERGREEN TREE FOR PERIMETER 2. 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 EVERGREEN TREE FOR PERIMETER 2 AND PLANTED ALONG PERIMETER 2.
- 3 EVERGREEN TREES HAVE BEEN MOVED FROM PERIMETER 6 TO PERIMETER 5. 12 OF 20 SHRUBS HAVE BEEN SUBSTITUTED FOR 2 SHADE TREES AND THE REMAINING 8 PLANTED ALONG PERIMETERS 1, 3, 4 & 7.
- 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 EVERGREEN TREE, AND 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 SHADE TREE ALONG PERIMETER 7.
- 20 SHRUBS HAVE BEEN SUBSTITUTED FOR 2 SHADE TREES, AND 30 SHRUBS FOR 30 EVERGREEN TREES ALONG PERIMETER 8.
- 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 EVERGREEN TREE, AND 10 SHRUBS HAVE BEEN SUBSTITUTED FOR 1 SHADE TREE ALONG PERIMETER 4.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS BY THE HOWARD COUNTY HEALTH DEPARTMENT.

James M. Boyd 8-6-96
HOWARD COUNTY HEALTH OFFICER DATE

APPROVED BY HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John W. Williams 8/9/96
DIRECTOR DATE

John W. Williams 8/15/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

John W. Williams 8/15/96
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

12/4/96 Δ ADDED NEW 12" NEW CONN. PIPE & EXIST. PIPE. REARRANGED 2" 12" TREES, PIPING AREA.

DATE NO. REVISION

OWNER: G. CLAUDE C. BESEL, 14075 BRIGHTON DAM ROAD, CLARKSVILLE, MD. 21024

DEVELOPER: FREESTATE PETROLEUM CORP., P.O. BOX 128, HIGHLAND, MD. 20711

PROJECT: **FREESTATE PETROLEUM**

AREA: TAX MAP 95, PARCEL 254, 5th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: **LANDSCAPE PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-6800 FAX: 410-997-9282

6-11-96 DATE

SDP-96-36 WP-95-90

DESIGNED BY: D.D.

DRAWN BY: M.S.L.

PROJECT NO. 105501
FRE-LDSC.DWG

DATE: JULY 3, 1996

SCALE: 1" = 20'

DRAWING NO. 8 OF 8

LYNDON O. HART #1098