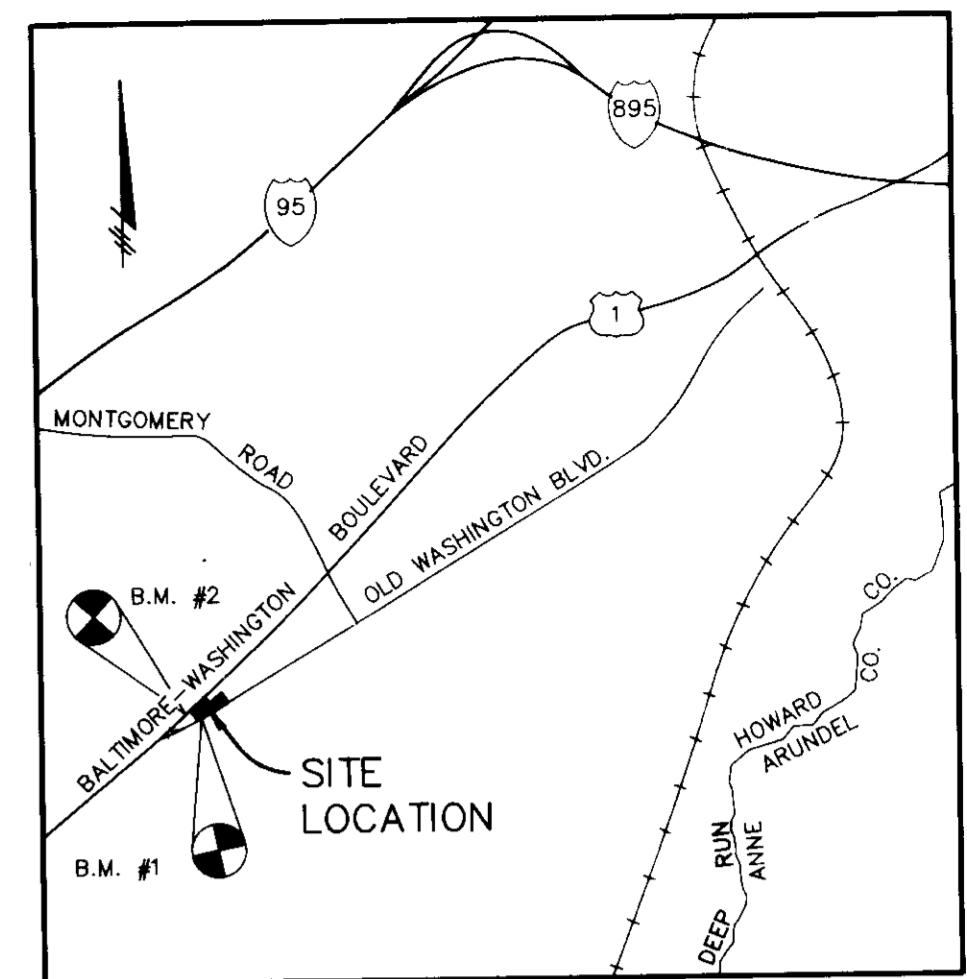


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN
4	DRAINAGE AREA MAP
5	STORM DRAIN PROFILE & DETAILS
6	DETAILS
7	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN ELKRIDGE CAR WASH 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP

SCALE: 1"=2000'

AS BUILT CERTIFICATE

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

Arthur E. Muegge 11-12-90
ARTHUR E. MUEGGE 11/12/90 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

William C. ... 11.21.90
DIRECTOR DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James ... 11.5.90
DIRECTOR DATE

Robert ... 11.5.90
CHIEF, BUREAU OF ENGINEERING DATE

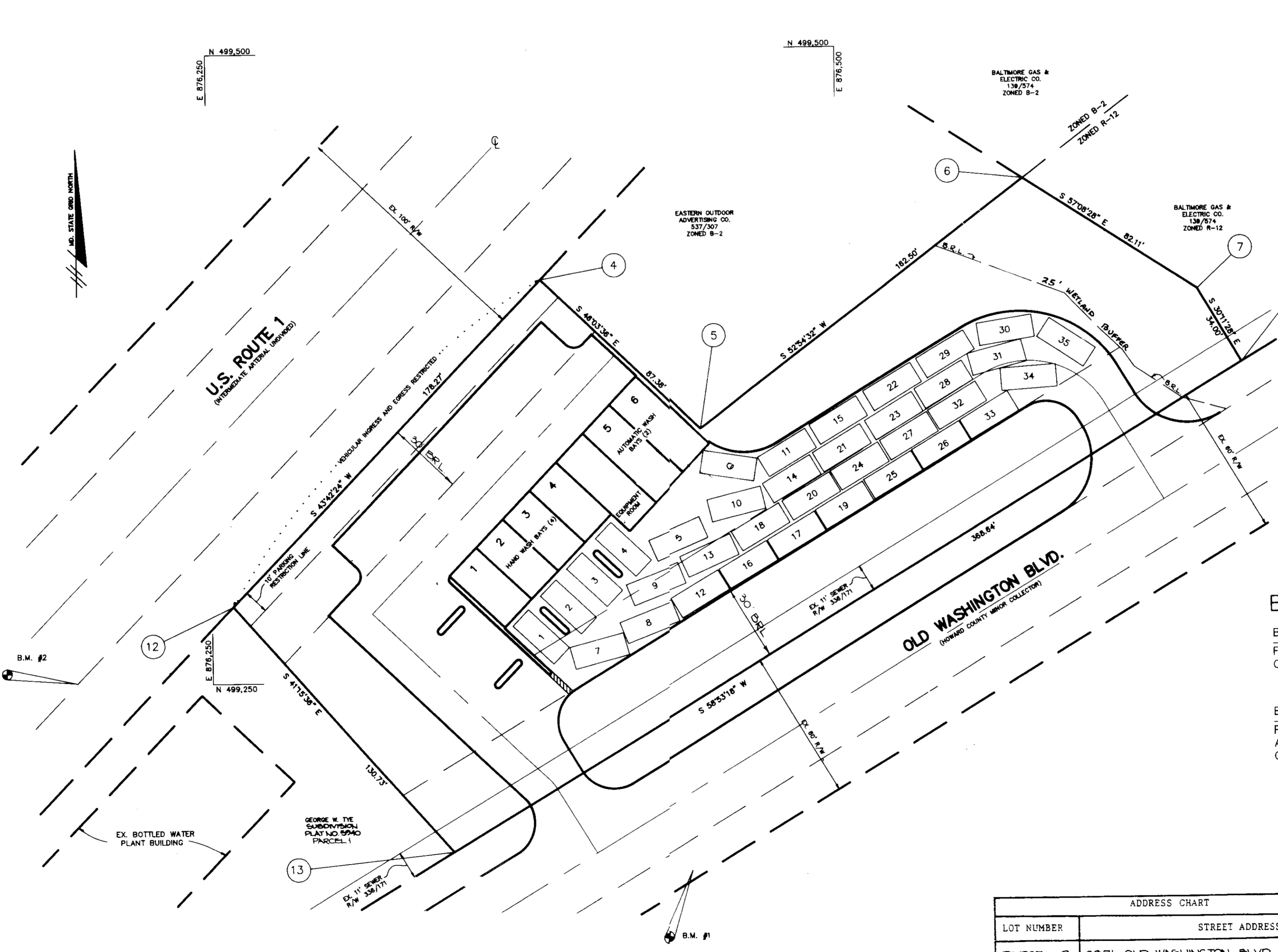
SITE TABULATION

GROSS AREA OF PARCEL	1.063 Ac. (46,286.7 sf)
LIMIT OF SUBMISSION	1.063 Ac. (46,286.7 sf)
PRESENT ZONING	B-2
PROPOSED BUILDING COVERAGE (7.5%)	0.080 Ac. (3,487.5 sf)
PROPOSED BUILDING USE	CAR WASH FACILITY
PARKING REQUIRED FOR CAR WASH	
@ 1 SPACE/VEHICLE	1 SPACE
PARKING PROVIDED (INCLUDING 1 HANDICAP)	13 SPACES
HANDICAP PARKING REQUIRED	1 SPACE
HANDICAP PARKING PROVIDED	1 SPACE
AREA OF PARKING	5,324 sf (0.12 Ac.)
LANDSCAPE ISLANDS REQUIRED (5%)	266.2 sf (0.006 Ac.)
LANDSCAPE ISLANDS PROVIDED (5.7%)	306 sf (0.007 Ac.)
OPEN SPACE REQUIRED (20%)	0.21 Ac. (9,257 sf)
OPEN SPACE PROVIDED (45%)	0.48 Ac. (20,993 sf)
STACKING SPACE REQUIRED	40
STACKING SPACE PROVIDED	35 (A WAIVER FOR THE REQUIRED STACKING SPACES HAS BEEN APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, MARCH 29, 1990.)

- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 AMENDMENTS.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
 - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
QSP TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
 - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
 - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
 - TOPO TAKEN FROM FIELD RUN SURVEY DATED FEB 07 BY, LAND DEVELOPMENT CONSULTANTS.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
 - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
 - THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 18.122A OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WASTE PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.

AS-BUILT REDLINES FOR A PRIVATE STORMWATER MANAGEMENT FACILITY



COORDINATE TABLE

NO.	NORTHING	EASTING
4	499409.46	876381.66
5	499348.81	876444.59
6	499446.82	876574.21
7	499402.27	876643.18
8	499372.80	876660.32
12	499280.59	876256.46
13	499182.32	876344.70

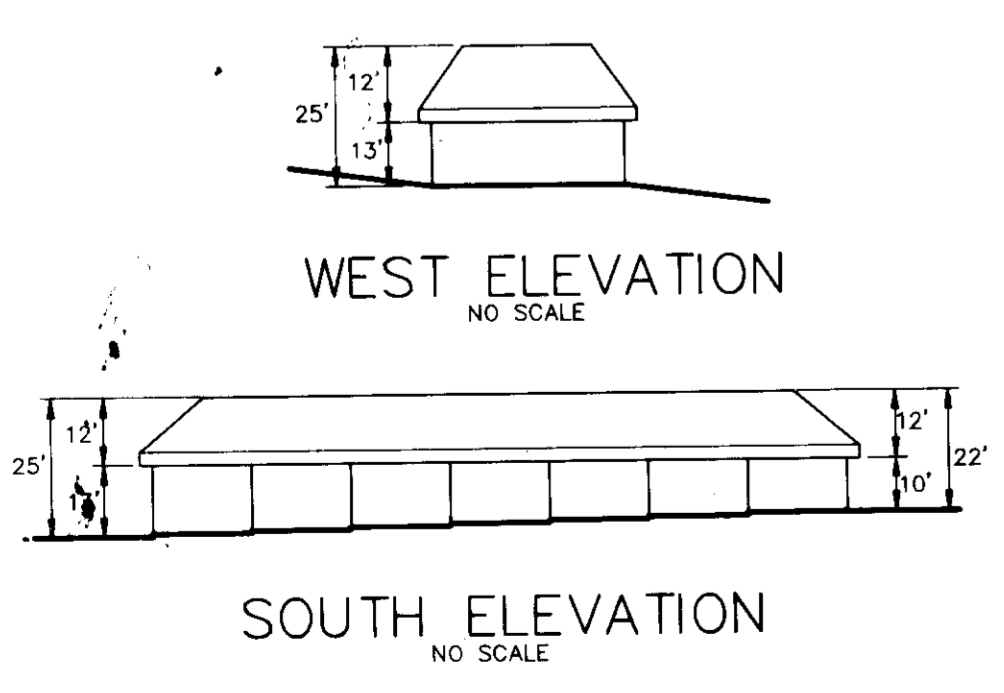
LEGEND

□ 9' x 22' TYPICAL STACKING SPACE

BENCHMARKS

BENCHMARK #1 ELEV. 168.47
FLANGE BOLT ON FIRE HYDRANT @ OLD WASHINGTON BOULEVARD

BENCHMARK #2 ELEV. 160.85
P.K. NAIL SET AT EDGE OF PAVING OF ROUTE 1 APPROXIMATELY 65' SOUTHWEST OF PROPERTY CORNER NO. 12

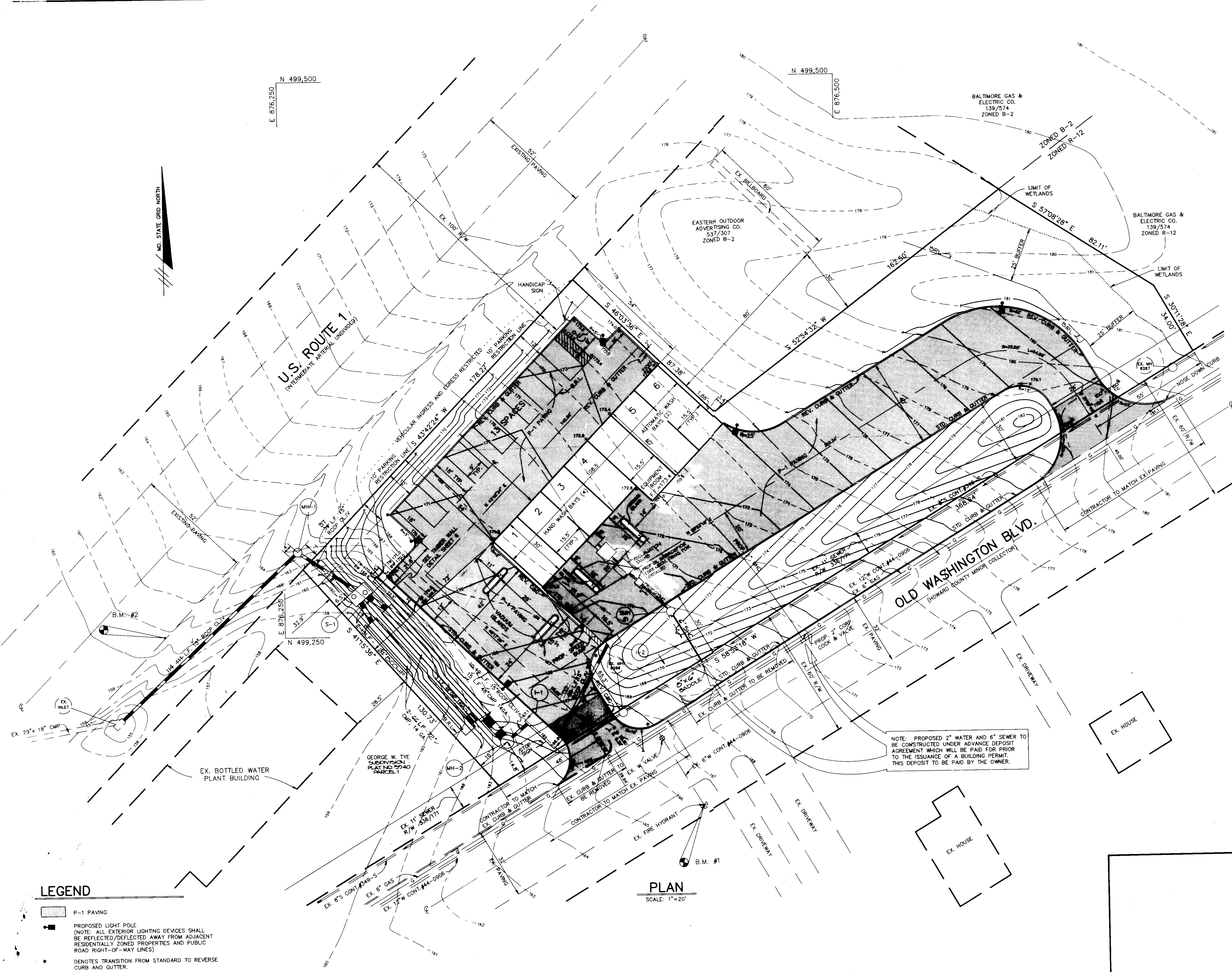


ADDRESS CHART

LOT NUMBER	STREET ADDRESS
PARCEL 2	6571 OLD WASHINGTON BLVD

SUBDIVISION NAME	SECT./AREA	PARCEL #
GEORGE W TYE SUBDIVISION		2
PLAT # OR L/F	BLOCK #	ZONE
5940	0	B-2
TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
	197	CO12
WATER CODE	SEWER CODE	
A.OI	2150529	

2-29-91	1	REVISED BLDG. FOOTPRINT & STACKING SPACES
DATE	NO.	REVISION
OWNER/DEVELOPER		
ROBERT BOARDMAN 2505 SUFFIELD COURT COLUMBIA, MARYLAND 21044		
PROJECT: ELKRIDGE CAR WASH A CAR WASH FACILITY		
AREA GEORGE W TYE SUBDIVISION - PARCEL 2 TAX MAP 50 ZONED B-2 PLAT NO 5940 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: TITLE SHEET		
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176		
10-26-90 DATE		
DESIGNED BY: CD		
DRAWN BY: CADD/CB		
PROJECT NO: G3203		
DATE: MARCH 20, 1990		
SCALE: AS SHOWN		
DRAWING NO: 1 OF 7		





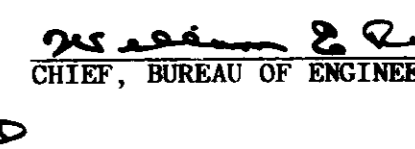
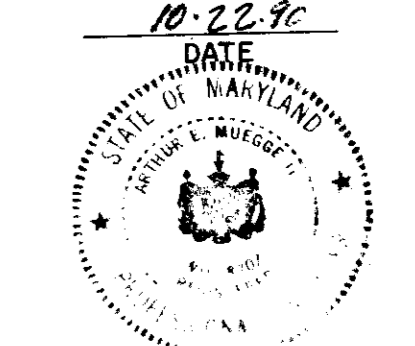


LEGEND

- P-1 PAVING
 - PROPOSED LIGHT POLE
(NOTE: ALL EXTERIOR LIGHTING DEVICES SHALL BE REFLECTED/DEFLECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC ROAD RIGHT-OF-WAY LINES)
 - DENOTES TRANSITION FROM STANDARD TO REVERSE CURB AND GUTTER.
- NOTE: CONTRACTOR TO TEST PIT TO VERIFY LOCATION OF EXISTING 12" WATER AND EXISTING 8" GAS, BEFORE BEGINNING ANY CONSTRUCTION ON THESE PLANS.

PLAN
SCALE: 1"=20'

NOTE: PROPOSED 2" WATER AND 6" SEWER TO BE CONSTRUCTED UNDER ADVANCE DEPOSIT AGREEMENT WHICH WILL BE PAID FOR PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. THIS DEPOSIT TO BE PAID BY THE OWNER.

AS BUILT CERTIFICATE	
 Arthur E. Muegge ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
 COUNTY HEALTH OFFICER	11-12-90 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
 DIRECTOR	11-21-90 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
 DIRECTOR	11-5-90 DATE
 CHIEF, BUREAU OF ENGINEERING	11-5-90 DATE
2-25-01	1 REVISED BLDG FOOTPRINT & SEWER LAYOUT
DATE NO	REVISION
OWNER/DEVELOPER	
ROBERT BOARMAN 5955 SUFFIELD COURT COLUMBIA, MARYLAND 21044	
PROJECT:	
ELKRIDGE CAR WASH A CAR WASH FACILITY	
AREA	
GEORGE W TYE SUBDIVISION - PARCEL 2 TAX MAP 28 ZONED D-2 PLAT NO 8940 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE:	
SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176	
 Arthur E. Muegge ARTHUR E. MUEGGE #8707	
DESIGNED BY: CB	DRAWN BY: CADD/CB
PROJECT NO: G3203	
DATE: MARCH 26, 1990	
SCALE: AS SHOWN	
DRAWING NO. 2 OF 2	

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE 08707 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 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."
 S. Robert Boardman 10/22/90
 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."
 Arthur E. Muegge 10/26/90
 ENGINEER DATE

REVIEWED FOR: HOWARD S.C.D. NAME
 AND MEETS TECHNICAL REQUIREMENTS
 James M. Tolson 10/26/90
 SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Cliff W. Johnson 10/25/90
 HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Joseph M. Borker 11-12-90
 COUNTY HEALTH SERVICES DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 Keith 11-21-90
 DIRECTOR DATE

Mark C. Campbell 11/16/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James P. Allen 11-5-90
 DIRECTOR DATE

Debra Ann B. Raley 11-5-90
 CHIEF, BUREAU OF ENGINEERING DATE

2-05-01	1	REVISED BLDG. FOOTPRINT
DATE	NO	REVISION

OWNER/DEVELOPER
 ROBERT BOARDMAN
 5553 SUFFIELD COURT
 COLUMBIA, MARYLAND 21044

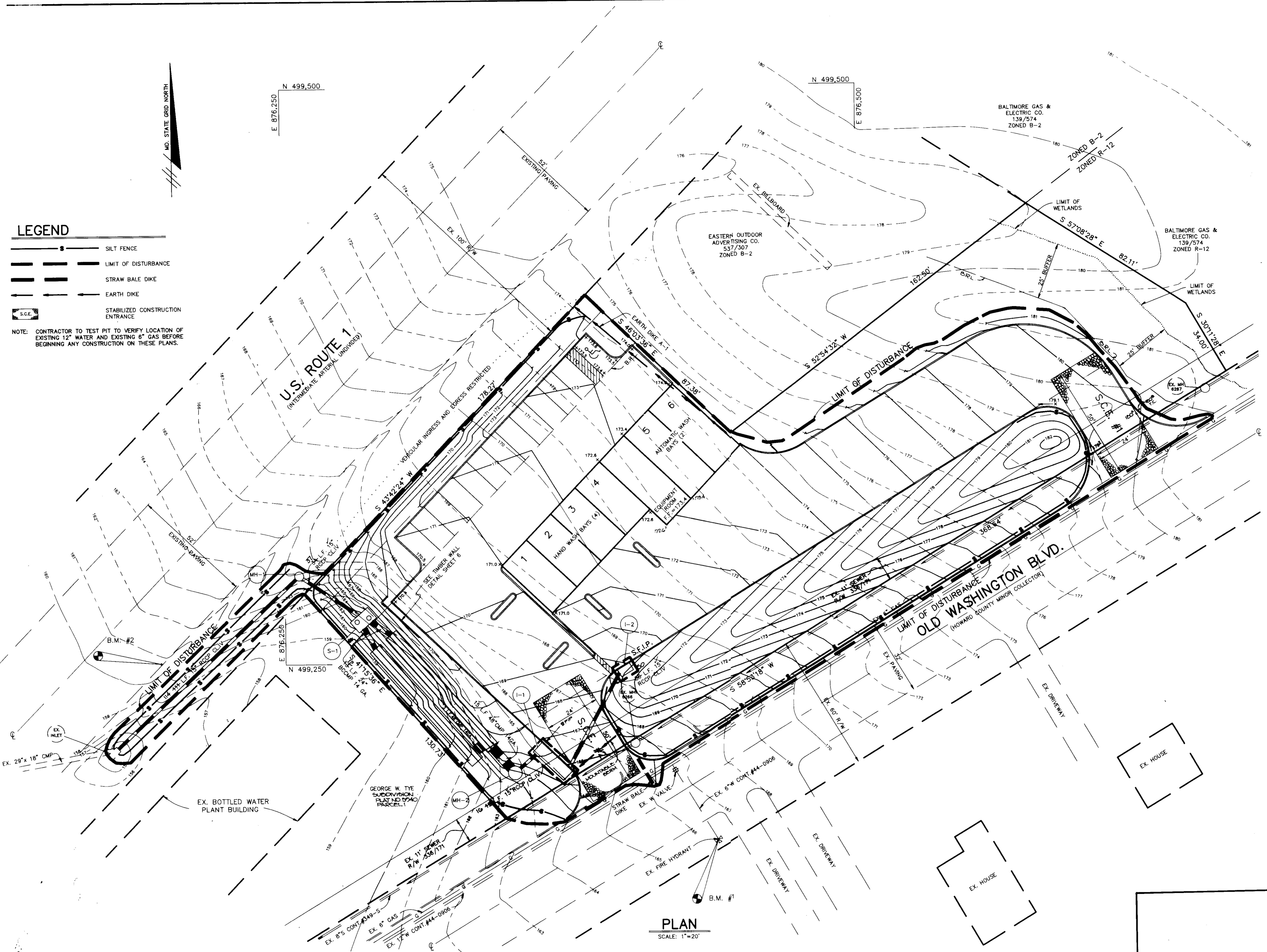
PROJECT:
ELKRIDGE CAR WASH
 A CAR WASH FACILITY

AREA
 GEORGE W. TVE SUBDIVISION - PARCEL 2
 TAX MAP 28 ZONED B-2 PLAT NO 9740
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE:
SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

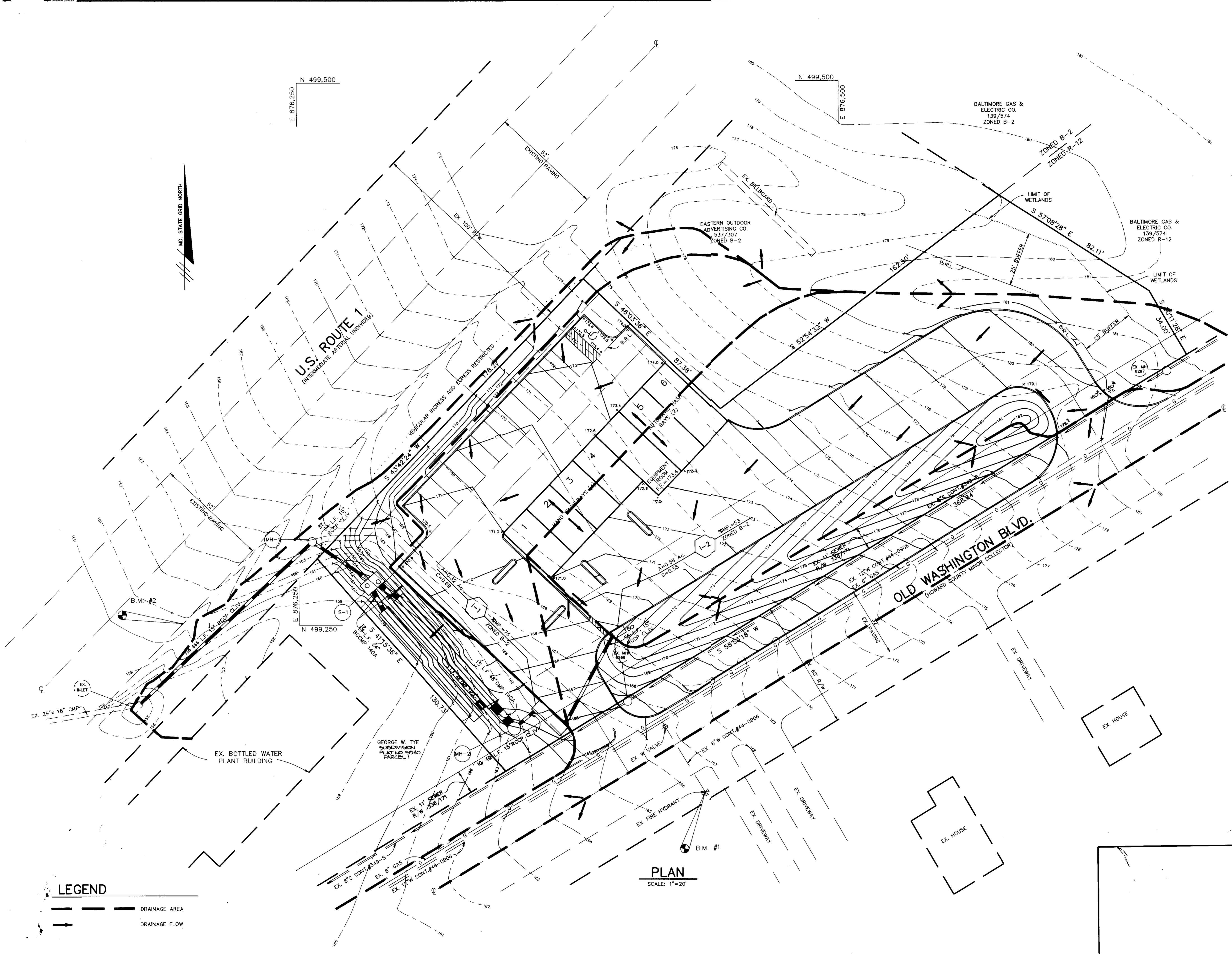
10-22-90
 DATE
 DESIGNED BY: CB
 DRAWN BY: CADD/CB
 PROJECT NO: G3203
 DATE: MARCH 20, 1990
 SCALE: AS SHOWN
 DRAWING NO: 2 OF 2



- LEGEND**
- SILT FENCE
 - LIMIT OF DISTURBANCE
 - STRAW BALE DIKE
 - EARTH DIKE
 - STABILIZED CONSTRUCTION ENTRANCE

NOTE: CONTRACTOR TO TEST PIT TO VERIFY LOCATION OF EXISTING 12" WATER AND EXISTING 8" GAS BEFORE BEGINNING ANY CONSTRUCTION ON THESE PLANS.

PLAN
 SCALE: 1"=20'



LEGEND

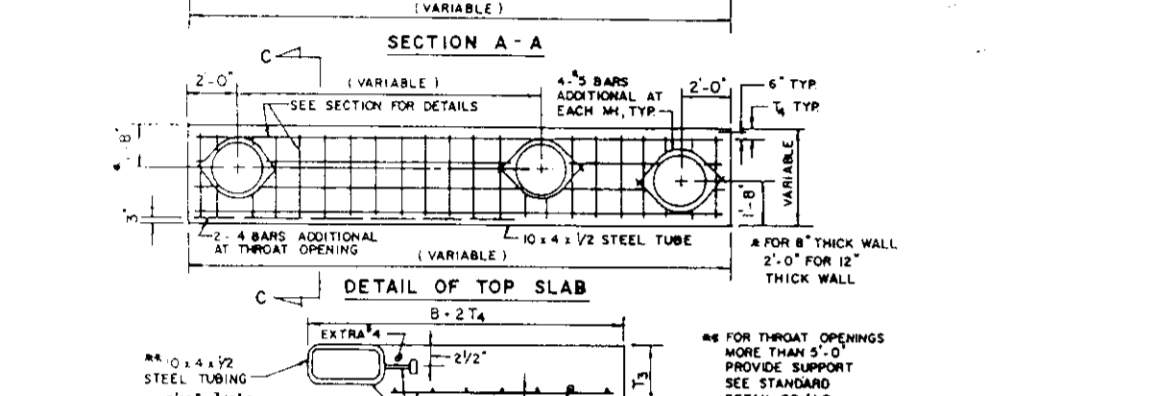
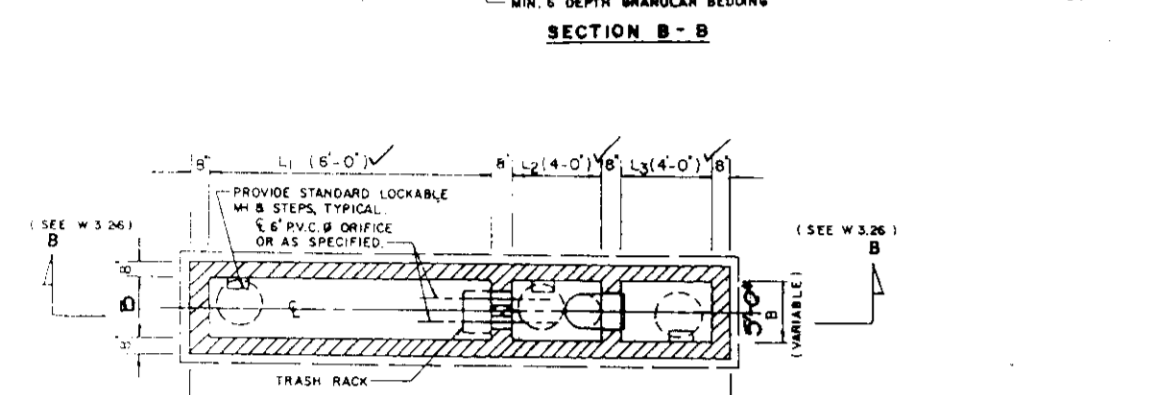
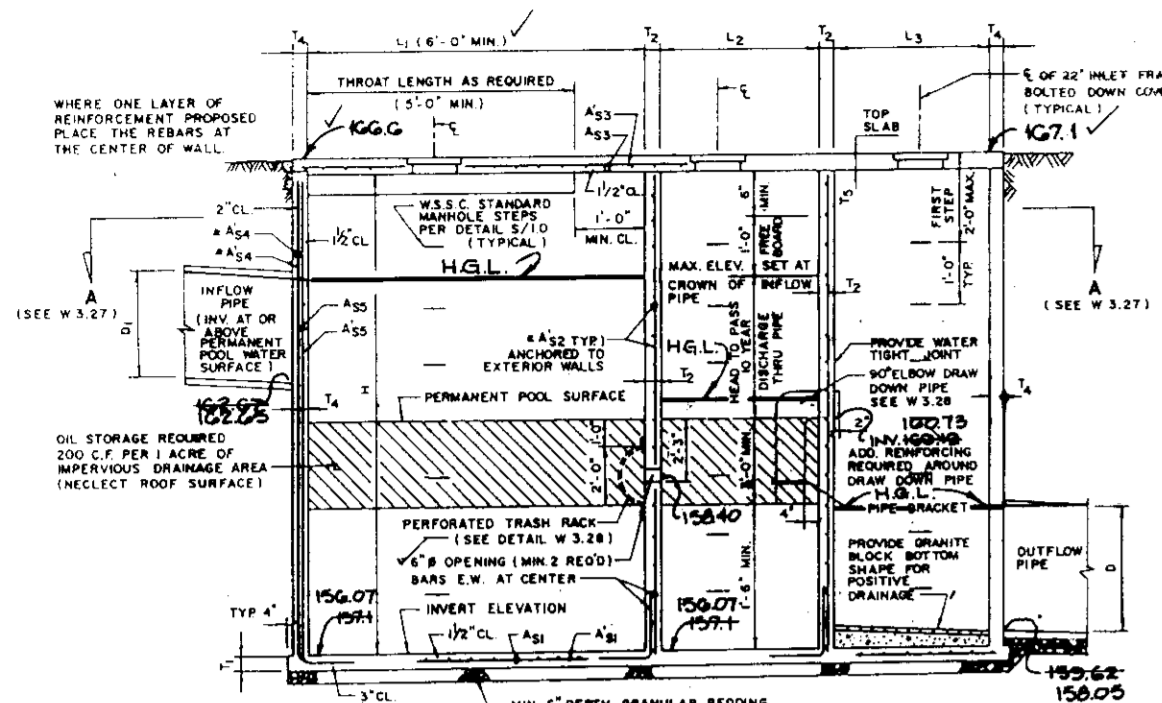
--- DRAINAGE AREA

→ DRAINAGE FLOW

PLAN
SCALE: 1"=20'

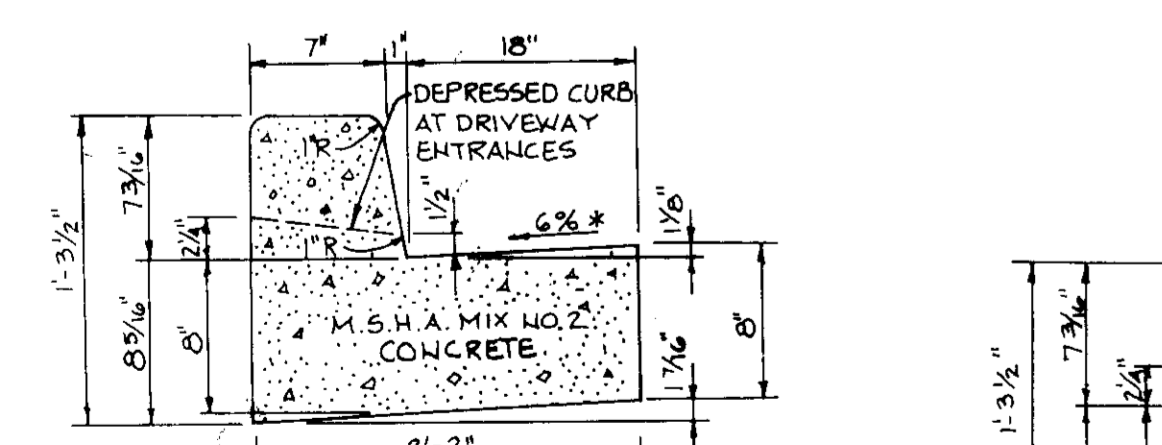
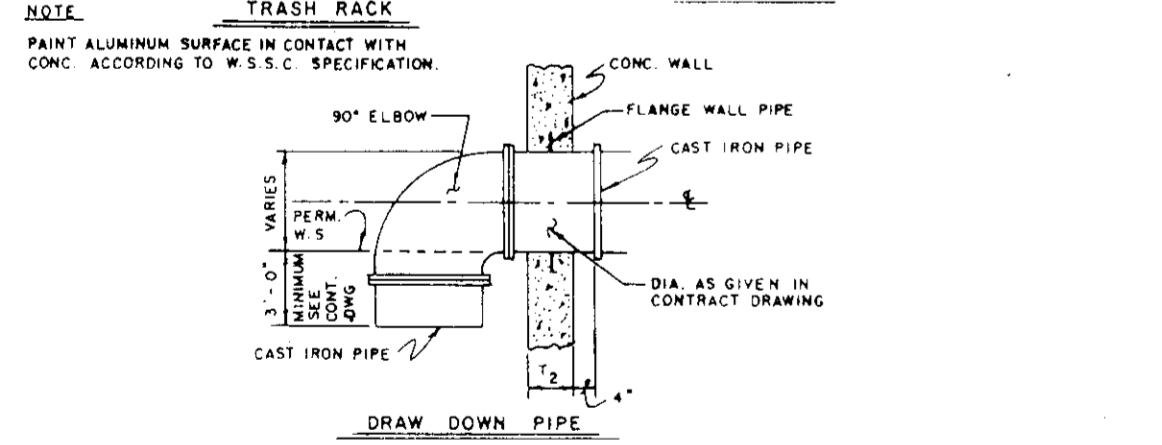
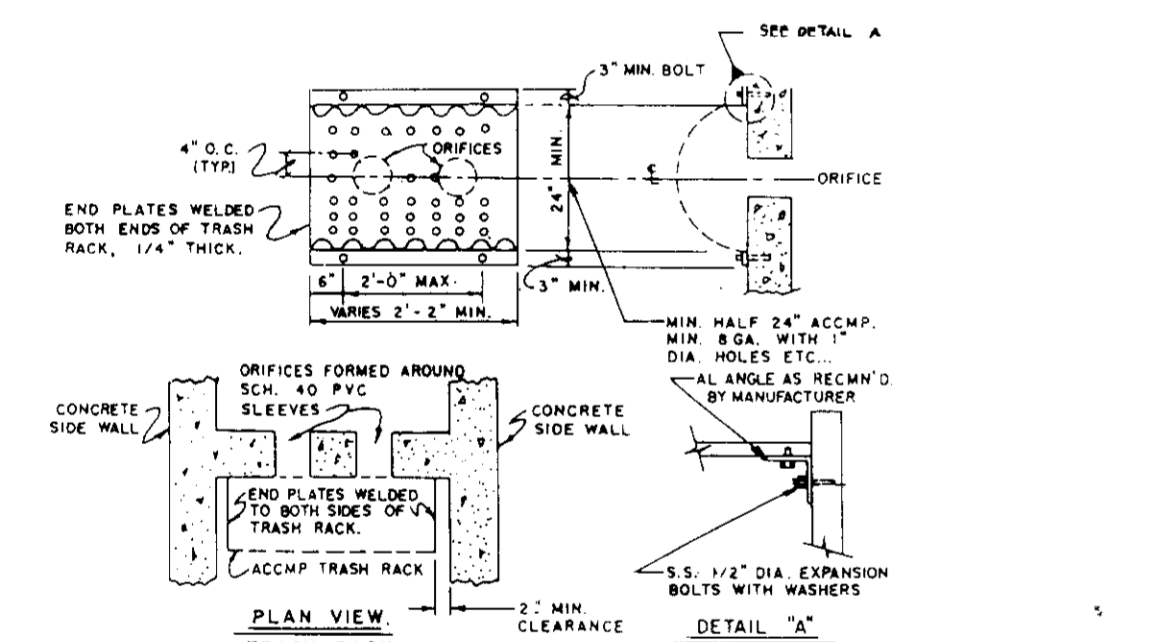
AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707 DATE: 10-22-90	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. <i>John Broderick</i> 11-2-90 COUNTY HEALTH OFFICER DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. <i>W. L. ...</i> 11-21-90 DIRECTOR DATE	
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James P. ...</i> 11-5-90 DIRECTOR DATE	
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>William S. ...</i> 11-5-90 CHIEF, BUREAU OF ENGINEERING DATE	
10-25-01 DATE NO. REVISION	1 REVISED BLDG. FOOTPRINT
OWNER / DEVELOPER ROBERT BOARDMAN 2555 SUFFIELD COURT COLUMBIA, MARYLAND 21044	
PROJECT ELKRIDGE CAR WASH A CAR WASH FACILITY	
AREA GEORGE W. TYE SUBDIVISION - PARCEL 2 TAX MAP 20 ZONED B-2 PLAT NO 5240 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE DRAINAGE AREA MAP	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176	
10-22-90 DATE	DESIGNED BY: CB DRAWN BY: CADD/CB PROJECT NO: G3203 DATE: MARCH 26, 1990 SCALE: AS SHOWN DRAWING NO. 4 OF 7

STRUCTURE NUMBER	PAVED AREA (AC)	OR. STORAGE REQUIRED (CF)	STORAGE PROVIDED (CF)	DIMENSIONS				FLOOR SLAB ELEV.	DRAW DOWN PIPE DIA.	THROAT LENGTH	TOP SLAB ELEV.	ORIFICE
				L1	L2	L3	B					
I-1	0.47	0.4	1.00	7'-0"	4'-0"	4'-0"	5'-0"	157.10	16" DIA.	16'-0"	167.1	4"
								156.07	16" DIA.	160.73	167.1	4"

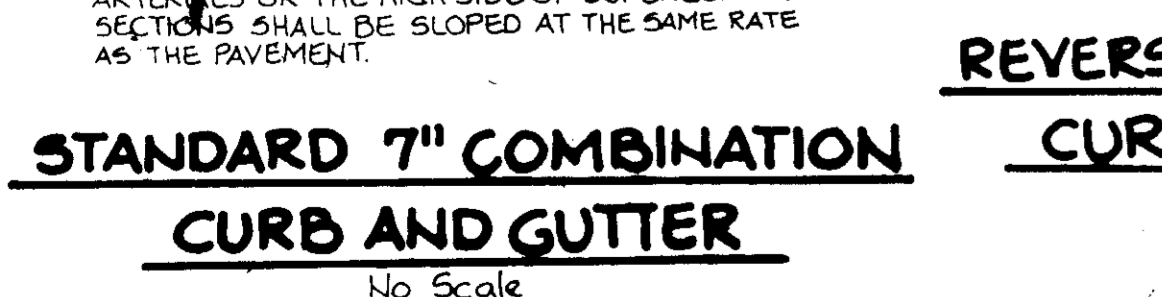


LIMITS		BASE SLAB		PARTITION WALLS		TOP SLAB		OUTER WALLS	
D	H	A1	A2	A3	A4	A5	A6	A7	A8
12	15	8"	12"	12"	12"	12"	12"	12"	12"

LAST IN PLACE CONCRETE 5" MIN. REINFORCING STEEL IN ACCORDANCE WITH ASTM A 603 GRADE 60.
NOTE: FOR SECTION AND DETAILS REFER TO SD/704 AND SD/705



HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)
* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.



STANDARD 7" COMBINATION CURB AND GUTTER
No Scale

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: per Howard County Standard Details W3.26 and W3.27.
- f'c = 4,000 psi at 28 days
- All reinforcing steel to be ASTM A615, GR.60.
- For details concerning throat openings, refer to Howard County Standard Detail SD.4.01.
- For details not noted in this standard, refer to Howard County Standard Detail SD.4.01, W3.26, W3.27 and W3.38.
- The top 4 inches of walls may be brick masonry for leveling, if required. Brick masonry shall comply with the latest SHA specification.
- When grate opening is used, refer to the appropriate SHA Standard for details. Details shall be shown on the plans.
- When inside width of structure is greater than 4'-00", reinforcing shall be revised 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 plan.
- All inlets and incoming pipes shall be checked for possible backwater or tailwater problems.

MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)

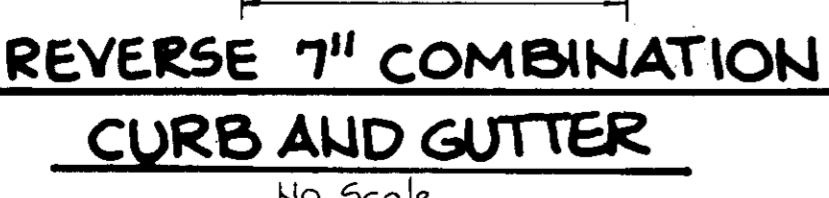
- Water Quality Structures will require periodical cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
- Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed.
- 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 plan for discharge.
 - 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.

CONSTRUCTION NOTES:

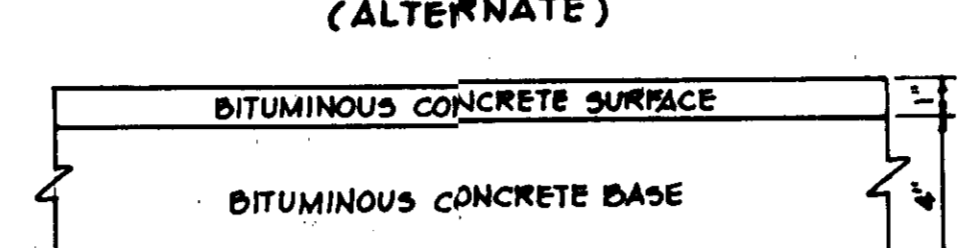
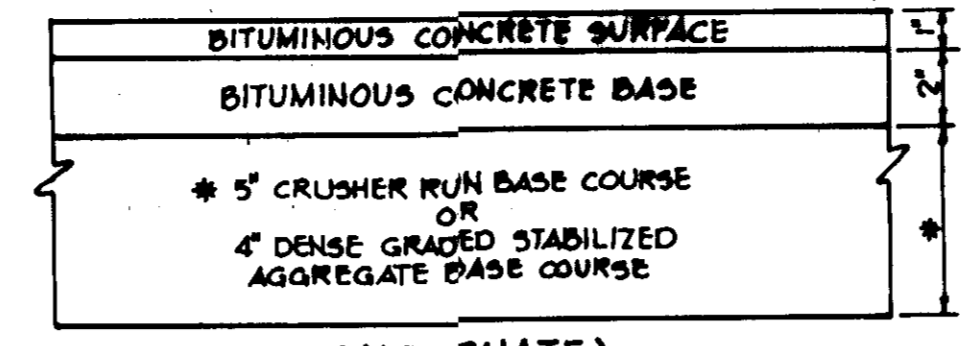
- Silt and debris shall not be allowed to enter the structures until contributing drainage areas have been permanently stabilized.
- All openings to structures shall be protected with the appropriate sediment control measures during construction.

INSPECTION NOTES:

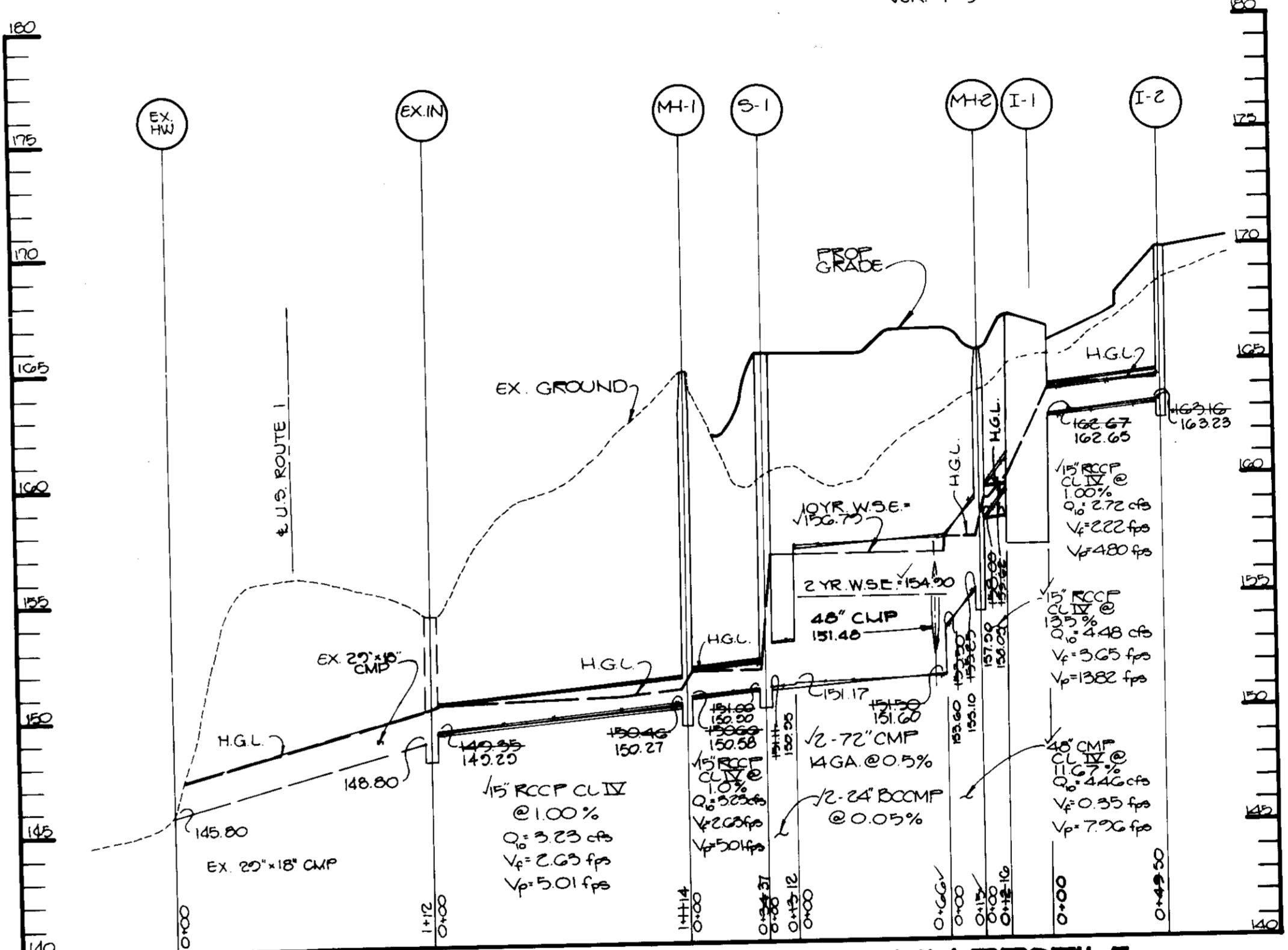
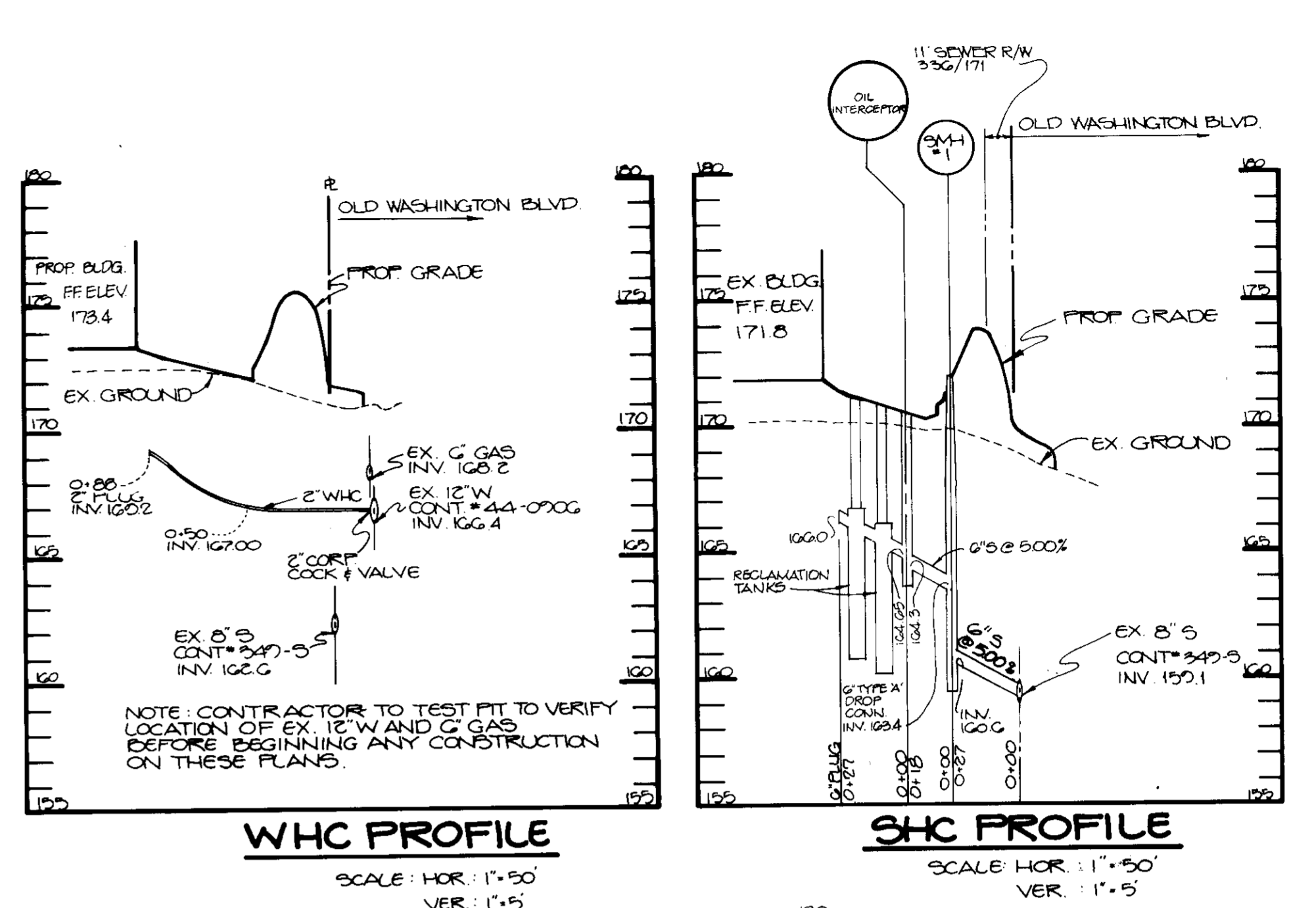
- Prior to start of construction on water quality structures, the Howard County Department of Public Works inspector must be called 48 hours in advance at 792-2630.
- The Howard County Department of Public Works inspector must be notified (792-2630) at each of the following stages:
 - Approval of subgrade for footings.
 - Footings formed and steel set prior to pouring.
 - Structure sides formed and steel set prior to pouring.
 - Prior to top slab and manholes being set, Howard County Department of Public Works inspector must check structure and all debris and silt in structure removed.
 - When site is permanently stabilized and sediment control measures to protect inlet are to be removed.



REVERSE 7" COMBINATION CURB AND GUTTER
No Scale

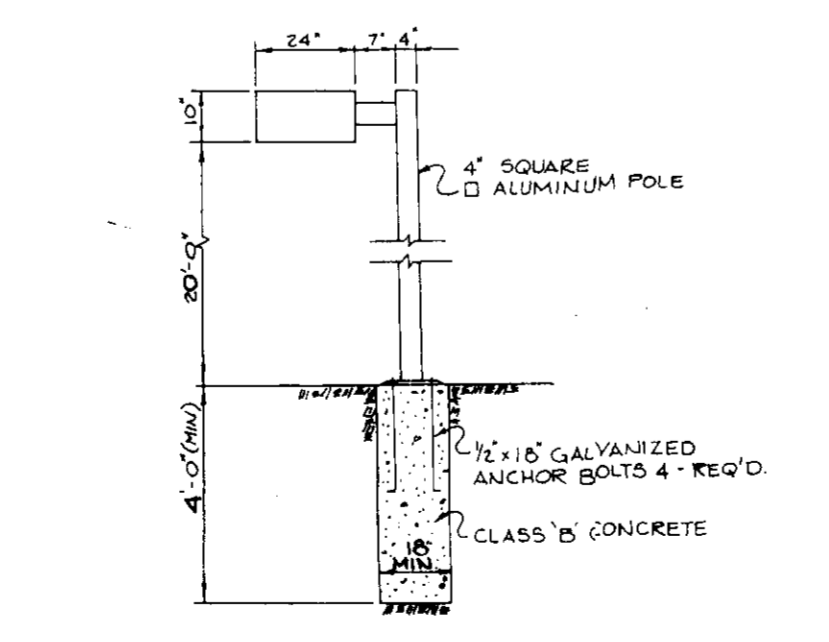


HOWARD COUNTY DESIGN MANUAL VOLUME III - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)
(5" PAVING, P-1)



HANDICAP SIGN DETAIL
NO SCALE

- ALL LIGHT FIXTURES TO BE DOUBLE LUMINAIRE 400 MATT MERCURY VAPOR WITH METAL POLES AND DIRECTED DOWNWARD.
- LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THUS: [Symbol]
- LIGHTS TO BE MODULE II TYPE AS MANUFACTURED BY MOLOCAST OR APPROVED EQUAL.
- POLE AND FIXTURE TO HAVE BLACK POLYESTER ENAMEL FINISH.
- POLE TO BE LOCATED 3' BACK FROM BACK OF CURB.



LIGHT POLE DETAIL
NO SCALE

AS BUILT CERTIFICATE
ARTHUR E. MUEGGE #6707
DATE: 10-22-90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph B. ... 11-2-90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
... 11-21-90
DIRECTOR DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
... 11-5-90
DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 11-5-90
DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING
... 11-5-90
DATE

DATE	NO.	REVISION
10-25-90	1	REVISED WHC & SHC PROFILED

OWNER/DEVELOPER
ROBERT BOARDMAN
2553 SUFFIELD COURT
COLUMBIA, MARYLAND 21044

PROJECT:
ELKRIDGE CAR WASH
A CAR WASH FACILITY

AREA
GEORGE W. TYE SUBDIVISION - PARCEL 2
TAX MAP 28 ZONED B-2 PLAT NO 57040
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
STORM DRAIN PROFILE AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE: 10-22-90
DESIGNED BY: CB
DRAWN BY: JV
PROJECT NO: 09203
DATE: MARCH 26, 1990
SCALE: AS SHOWN
DRAWING NO: 5 OF 7

ARTHUR E. MUEGGE #8707 DATE

BY THE DEVELOPER: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN...

S. Robert Bradfordman 10/22/90 DEVELOPER DATE

BY THE ENGINEER: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN...

ARTHUR E. MUEGGE #8707 ENGINEER DATE

REVIEWED FOR: HOUGHTON S.C.D. NAME

AND METS TECHNICAL REQUIREMENTS JOSEPH H. HAZEN 10/26/90 SOIL CONSERVATION SERVICE DATE

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

STEPHEN W. HENNING 10/25/90 S.C.D. DATE

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

JOYCE BOYD 11-1-90 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

WILLIAM 11-21-90 DIRECTOR DATE

DAVID J. JACOB 11/8/90 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS JAMES 11-5-90 DIRECTOR DATE

WILLIAM 11-5-90 CHIEF, BUREAU OF ENGINEERING DATE

DATE NO REVISION

OWNER/DEVELOPER ROBERT BOARDMAN 505 BUFFLE COURT COLUMBIA, MARYLAND 21044

PROJECT ELK RIDGE CAR WASH A CAR WASH FACILITY

AREA GEORGE W. TYE SUBDIVISION-PARCEL 2 TAX MAP 29 ZONED B-2 PLAT NO 5740 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DETAILS

RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Elkton City, Maryland 21043 301-461-2690 FAX: 301-750-3176

10-22-90 DATE

DESIGNED BY: CD

DRAWN BY: JV

PROJECT NO: G3203

DATE: MARCH 26, 1990

SCALE: AS SHOWN

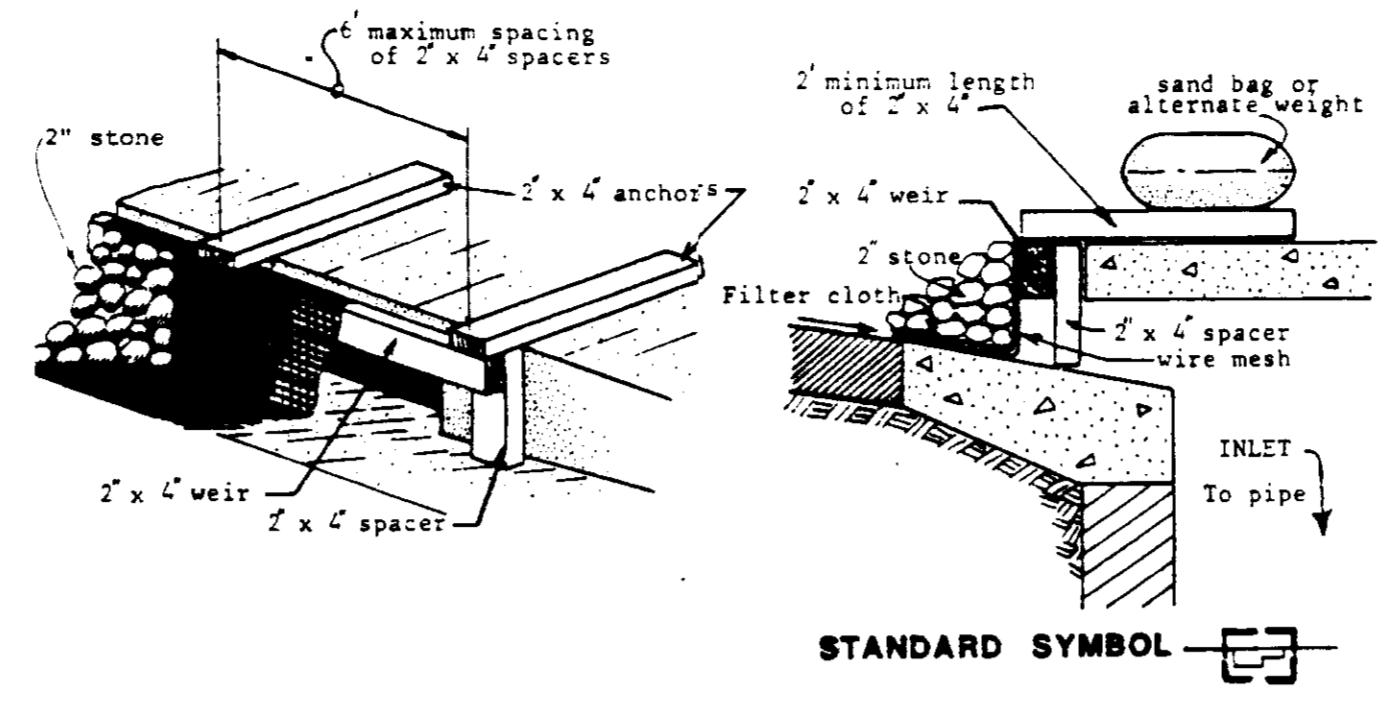
DRAWING NO: G OF 7

ARTHUR E. MUEGGE #8707

SDP-90-28 AS-BUILT

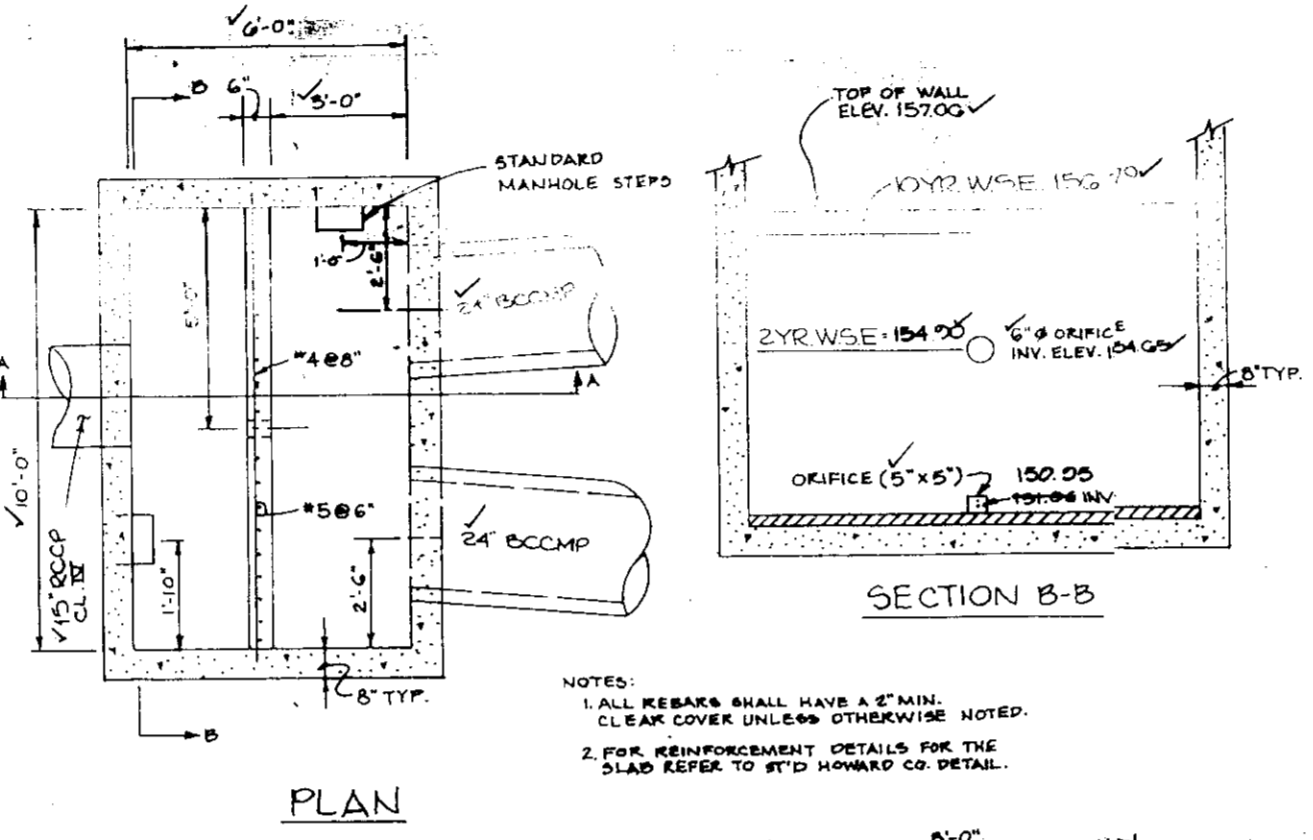
Construction Specifications

- I. Materials A. Wooden frame is to be constructed of 2" x 4" construction grade lumber. B. Wire mesh must be of sufficient strength to support filter fabric... II. Procedure A. A weel, ditchline or yard inlet protection. 1. Excavate completely around inlet to a depth of 18" below notch elevation...

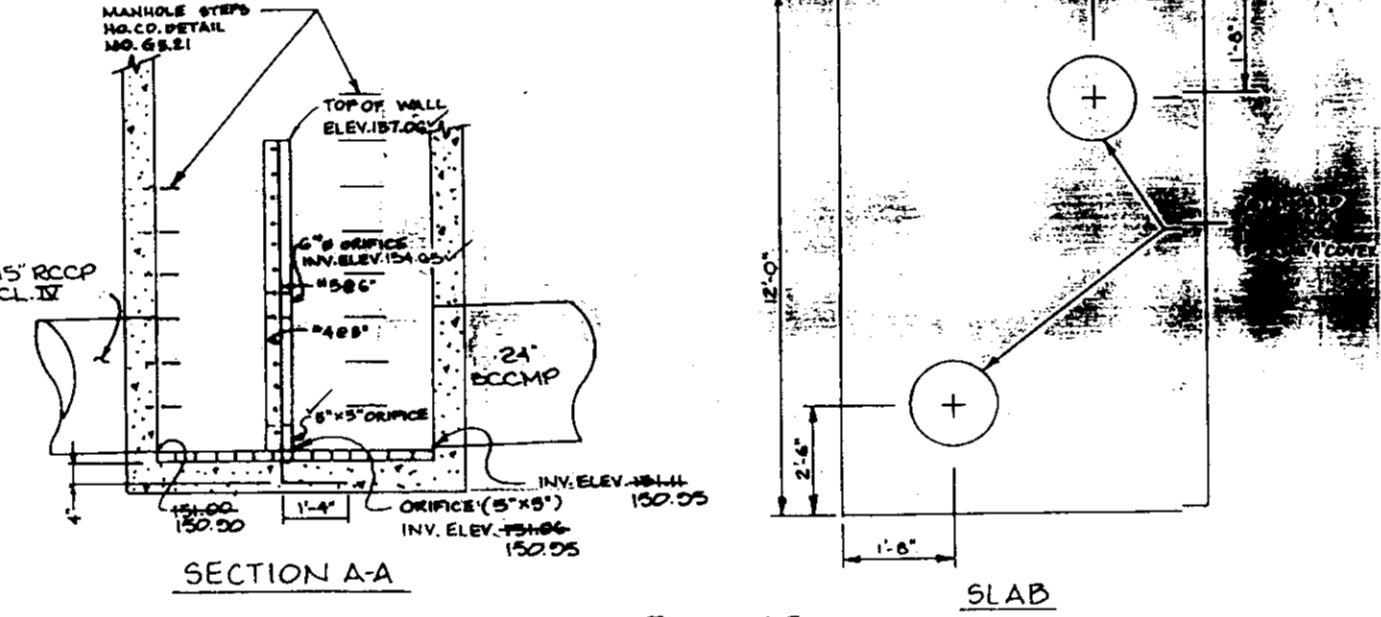


STONE FILTER INLET PROTECTION NO SCALE

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed. Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding... Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)... Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye... Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding...



MODIFIED A-10 NO SCALE



MODIFIED A-10 NO SCALE

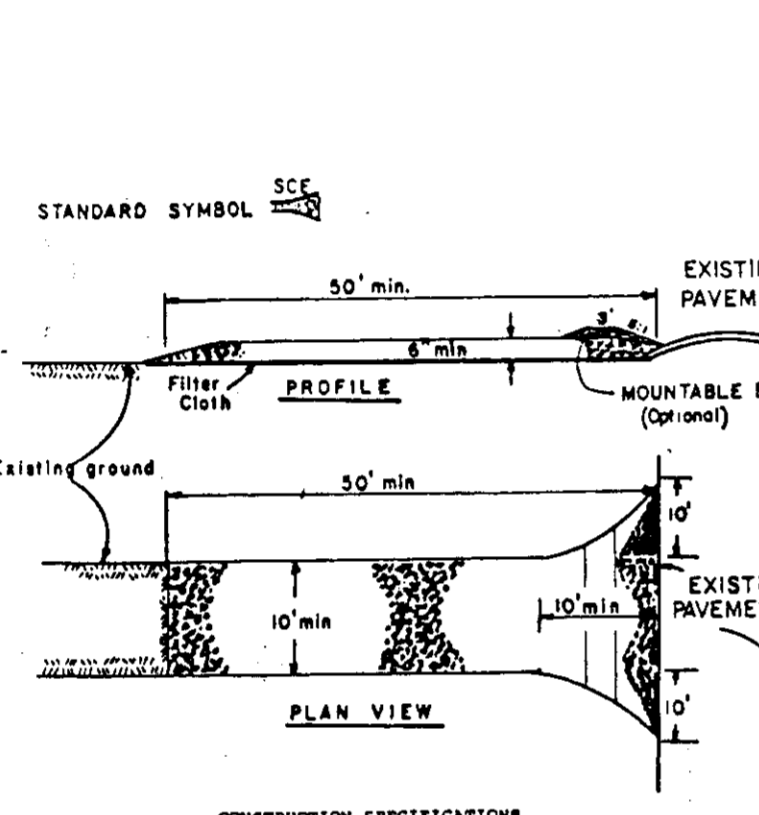
Table with columns: NO., TYPE, LOCATION, TOP ELEV., INV. IN., INV. OUT., REMARKS. Rows include I-1 WATER QUALITY STRUCTURE, I-2 A-5, MH-1 STD PRECAST MANHOLE, MH-2 STD BRICK MANHOLE, S-1 MODIFIED A-10.

SEQUENCE OF CONSTRUCTION

- 1. Obtain a Grading Permit. 2. Install stabilized construction entrance #1, silt fence, earth dikes, storm drain system from I-2 to Ex. Inlet... 3. Construct stone construction entrance #2 with mountable berm... 4. Begin site grading & building construction. 5. Bring the site to subgrade and install water and sewer connections. 6. Install curb & gutter and paving. 7. Flush clean new storm drain system and stabilize all disturbed areas in accordance with permanent seeding notes. 8. Upon approval of the Howard County Department of Public Works Sediment Control Inspector, remove all sediment control devices and stabilize all areas disturbed by their removal...

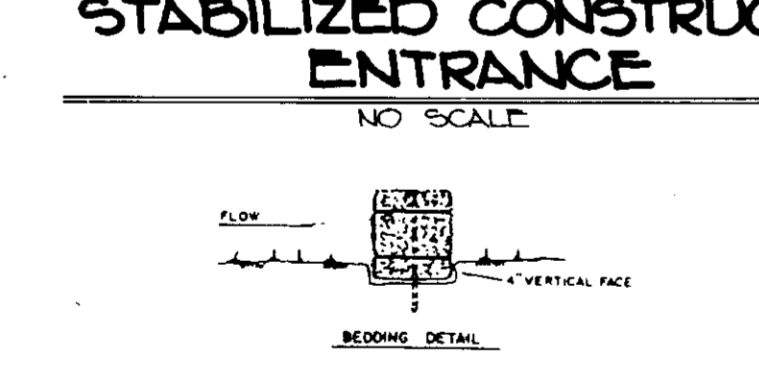
PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbances where a permanent vegetative cover is needed. Seeded Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding... Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)... Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue... Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding... Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

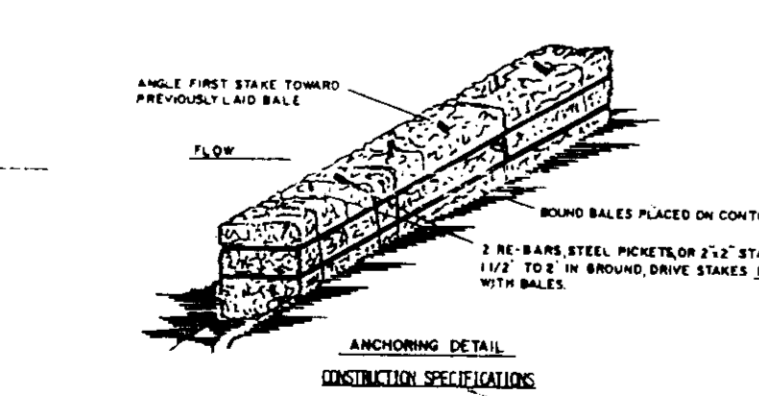


STABILIZED CONSTRUCTION ENTRANCE NO SCALE

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent. 2. Length - As required, but not less than 30 feet (except on a single retaining wall where a 10 foot minimum length would apply). 3. Thickness - Not less than six (6) inches. 4. Width - Ten (10) foot minimum over the entire area prior to placing of stone. 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance... 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way... 8. Periodic inspection and needed maintenance shall be provided after each rain.



EARTH DIKE NO SCALE

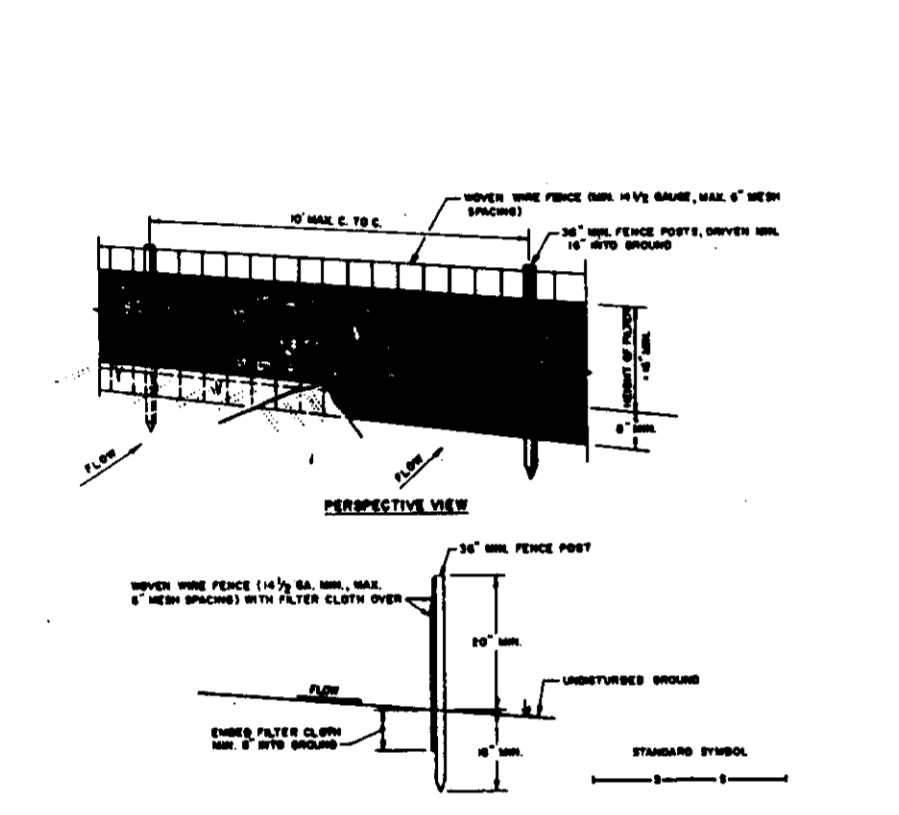


STRAW BALE DIKE NO SCALE

1. Bales shall be placed at the top of a slope or on the contour and in a row with rows tightly abutting the adjacent bales. 2. Each bale shall be secured in the soil a minimum of (4) inches, and placed so the bindings are horizontal. 3. Bales shall be properly anchored in place by either two stakes or re-bar driven through the top of the first stake in each bale and driven through the soil in place with the stake. 4. Direction shall be present and repair replacement shall be made promptly as needed. 5. Bales shall be replaced when they have moved their usefulness as set to block or check flow from top to bottom.

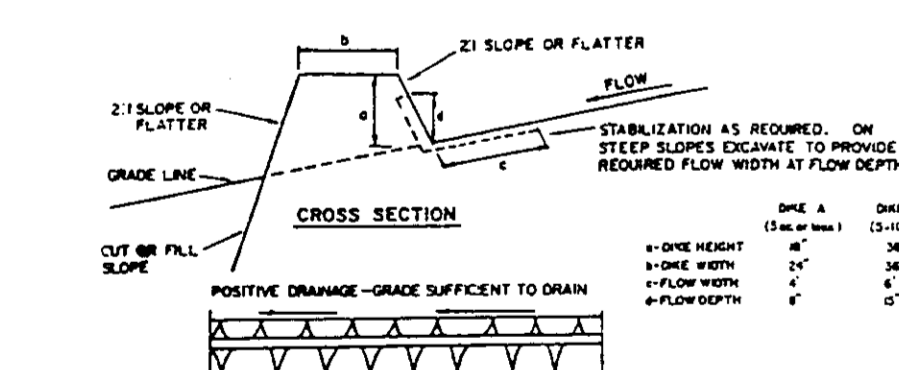
SEDIMENT CONTROL NOTES

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (902-2427). 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. 3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site. 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage. 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 5) sod (Sec. 54), temporary seeding (Sec. 5D) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses. 6. 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. 7. Site Analysis: Total Area of Site 1.069 acres, Area Disturbed 0.06 acres, Area to be roofed or paved 0.06 acres, Area to be vegetatively stabilized 0.943 acres, Total Cut 17.5 Cu. yds., Total Fill 1.575 Cu. yds.

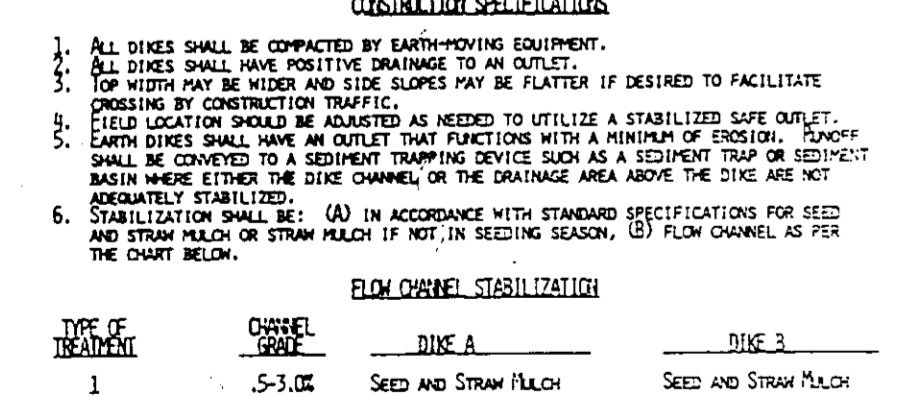


SILT FENCE NO SCALE

1. Move wire fence to be fastened securely. 2. Filter cloth to be fastened securely to wood posts with wire ties or staples. 3. Move no sections of filter cloth. 4. Periodic inspection and needed maintenance shall be provided after each rain.



EARTH DIKE NO SCALE



STRAW BALE DIKE NO SCALE

1. All dikes shall be compacted by earth-moving equipment. 2. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic. 3. Field location should be adapted as needed to utilize a stabilized slope outlet. 4. Earth dikes shall have an outlet that functions with a minimum of erosion. 5. Basin shall be equipped with a sediment trapping device such as a sediment trap or sediment basin where either the dike channel, or the drainage area above the dike are not adequately stabilized. 6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per the chart below.

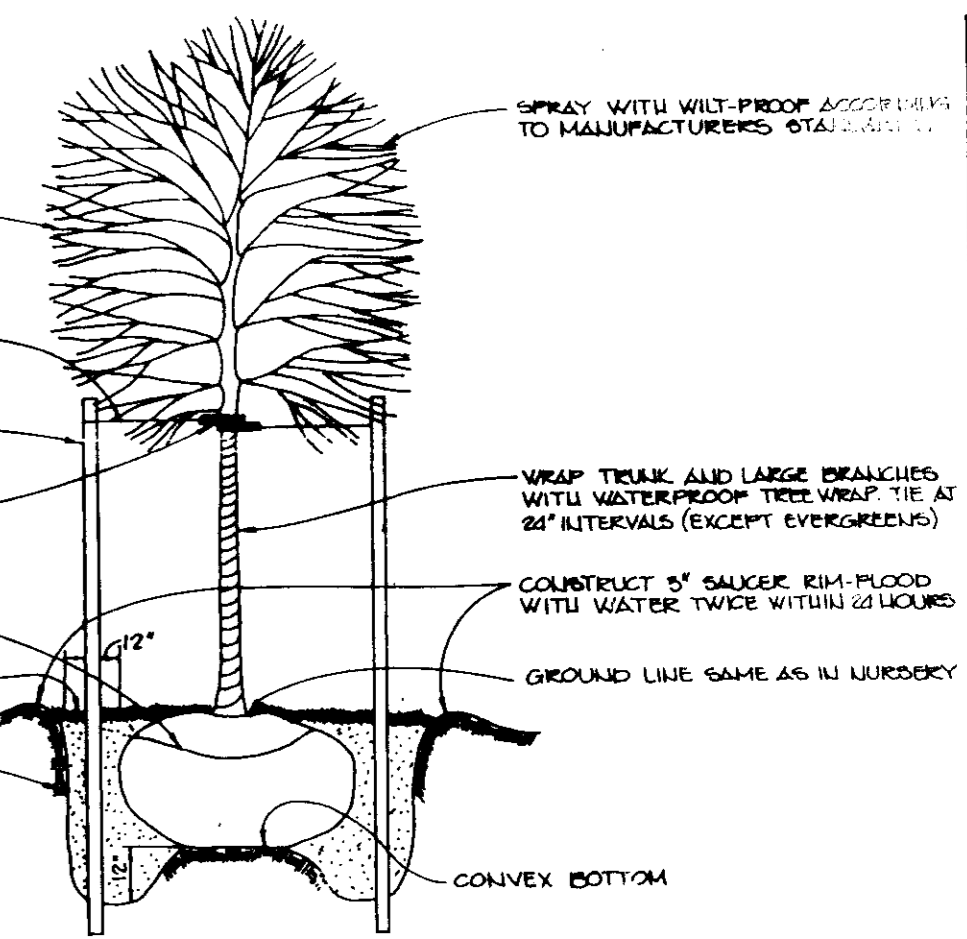


EARTH DIKE NO SCALE

APPROVED EQUIPMENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

PLANT LIST

QTY	KEY	NAME	SIZE	REMARKS
9	AR	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2 1/2"-3" cal. 12-14' HEIGHT	B&B
25	BJ	Berberis julianae 'NANA' DWARF WINTERGREEN BARBERRY	18"-24" SPREAD	
35	IG	Ilex glabra 'COMPACTA' DWARF INKBERRY	18"-24" SPREAD	
50	JC	Juniperus chinensis 'PFITZERANA COMPACTA' DWARF PFITZER JUNIPER	18"-24" SPREAD	PLANT 3' O.C.
16	PT	Pinus thunbergii JAPANESE BLACK PINE	2" - 2 1/2" cal. 6'-8' HEIGHT	B&B



TREE PLANTING DETAIL
NOT TO SCALE

AS BUILT CERTIFICATE

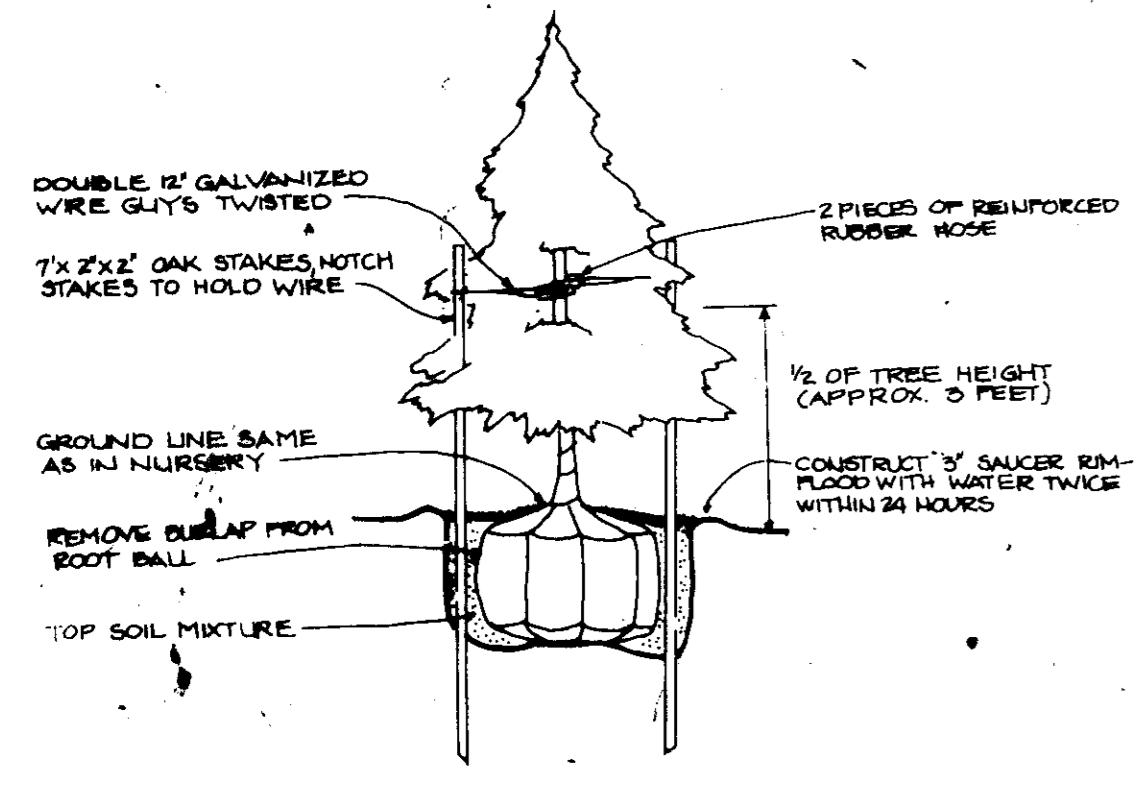
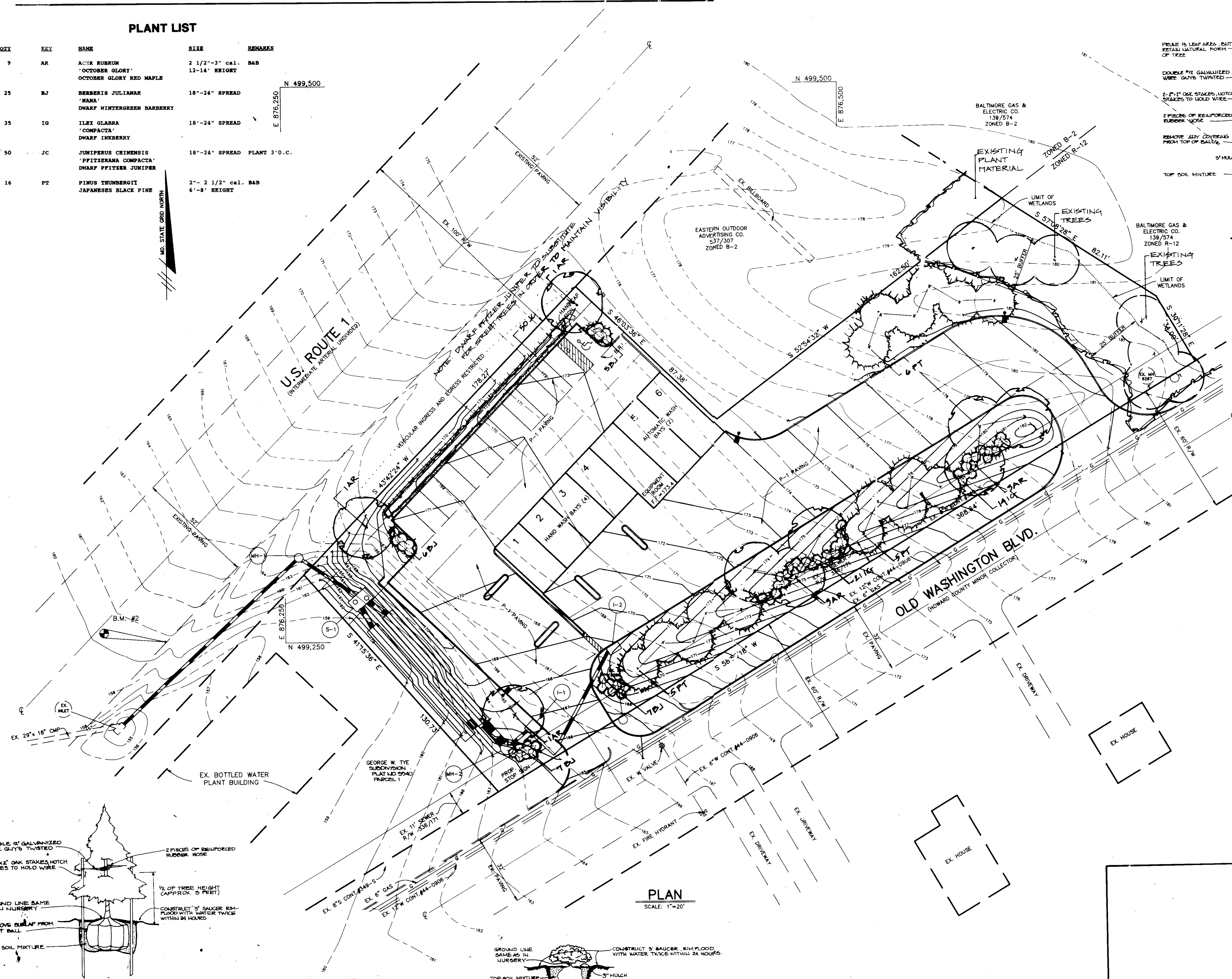
ARTHUR E. MUEGGE #8707		DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.		
<i>James Bodin</i>		11-12-90
COUNTY HEALTH OFFICER		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>John J. Goff</i>		11-26-90
DIRECTOR		
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.		
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>James P. Goff</i>		11-26-90
DIRECTOR		
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.		
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>William S. Goff</i>		11-5-90
CHIEF, BUREAU OF ENGINEERING		

2-25-91	1	REVISED BLDG. FOOTPRINT
DATE	NO.	REVISION
R. R. DEVELOPER		
ROBERT BOARDMAN 2000 SUFFIELD COURT COLUMBIA, MARYLAND 21044		
PROJECT: ELKRIDGE CAR WASH A CAR WASH FACILITY		
AREA: GEORGE W. TYE SUBDIVISION - PARCEL C TAX MAP # 28 ZONED B-2 PLAT NO 2240 1 ST ELECTION DISTRICT - HOWARD COUNTY, MARYLAND		
TITLE: LANDSCAPE PLAN		

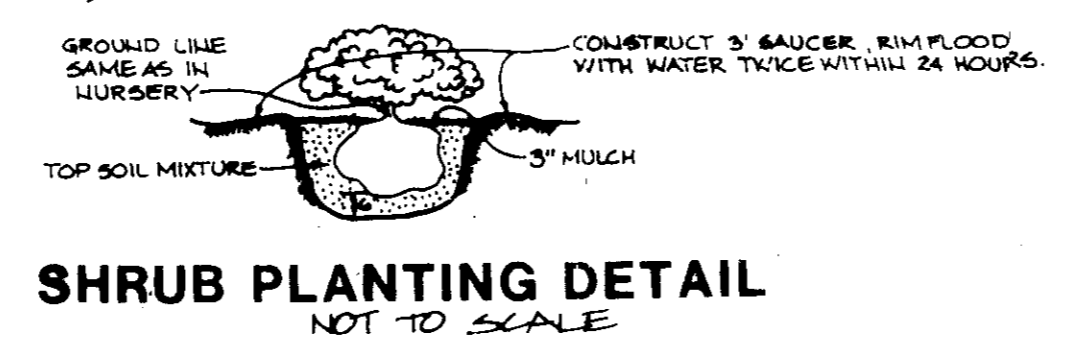
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DATE: 11-23-90	DESIGNED BY: LLS
STATE OF MARYLAND MELANIE MOSER LANDSCAPE ARCHITECT	DRAWN BY: LLS
	PROJECT NO: G9203
	DATE: MARCH, 1990
	SCALE: AS SHOWN
	DRAWING NO. 7 OF 7

SDP-90-96



EVERGREEN PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE

PLAN
SCALE: 1"=20'

MUEGGE & ASSOCIATES, INC. 11/23/90