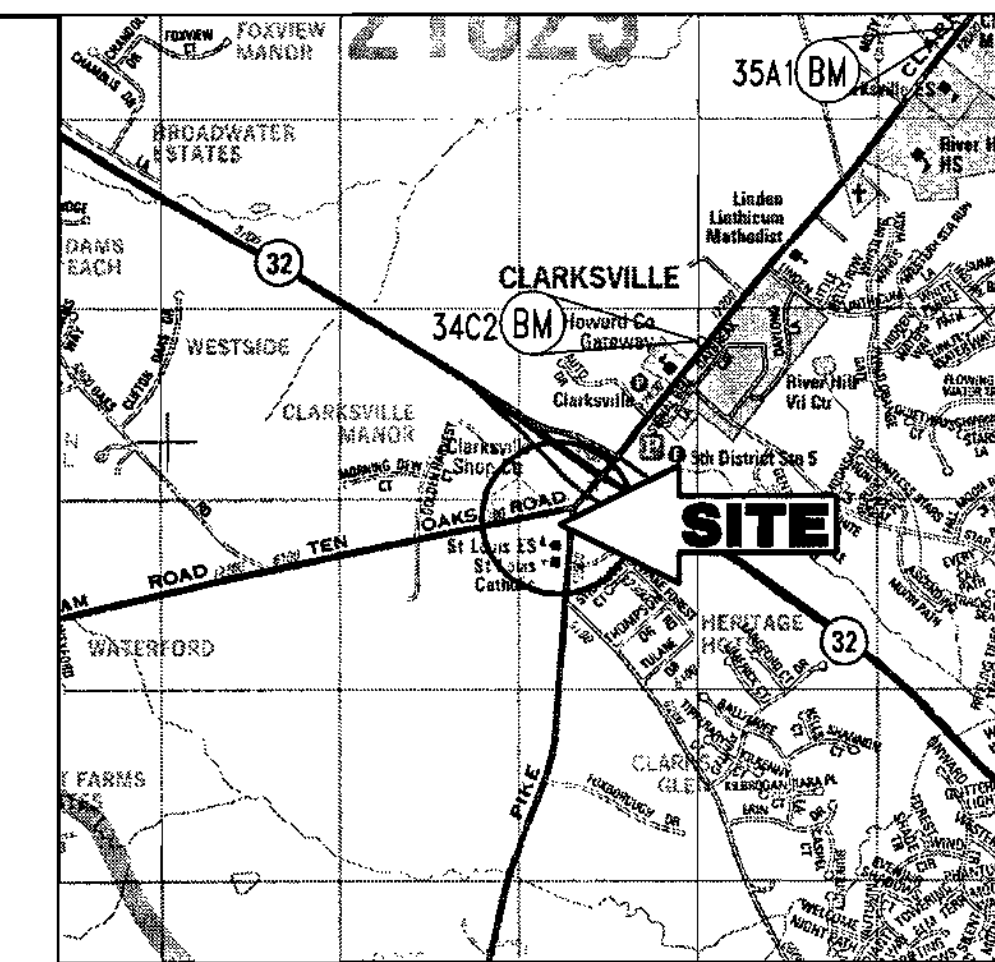


SHELL OIL COMPANY

MD. ROUTE 108 & TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029



LOCATION MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20694276
SCALE: 1"=2000'

BENCHMARK INFORMATION

NAI1 SET AT SOUTHWEST CORNER OF THE INTERSECTION OF MD ROUTE 108 AND TEN OAKS ROAD. ELEVATION 484.16 (REFER TO EXISTING CONDITIONS AND DEMOLITION PLAN FOR LOCATION).

COUNTY CONTROL INFORMATION

STATION 35A1
HOWARD COUNTY ALUMINUM DISK SET ON CONCRETE MONUMENT ON THE EAST SIDE OF MD RTE. 108 4 MILES SOUTH OF SHEPARD LN. ELEV.-478.97.

STATION 34C2
CONCRETE MONUMENT ON THE EAST SIDE OF MD RTE. 108 ACROSS FROM THE CLARKSVILLE LEARNING CENTER.

SITE DATA

- AREA OF PARCEL: 1.14 AC. OR 49,853 S.F.
DISTURBED AREA: 1.49 AC. OR 64,962 S.F.
- ZONING: B-2 (GENERAL COMMERCIAL)
- EXISTING USE: ABANDONED AUTOMOBILE DEALERSHIP
PROPOSED USE: GASOLINE SERVICE STATION WITH CONVENIENCE STORE/RESTAURANT AND CAR WASH.
- FLOOR SPACE:
 - CONVENIENCE STORE/RESTAURANT: GROSS AREA: 4,070 S.F.
PUBLIC USE FLOOR AREA: 1,794 S.F.
 - CAR WASH: GROSS AREA: 1,108 S.F.
TOTAL GROSS AREA: 5,178 S.F.
- MAXIMUM NUMBER OF EMPLOYEES: 4 (FOUR)
- PARKING:
 - REQUIRED: GASOLINE SERVICE STATION W/CARWASH: 4 SPACES = 4 SPACES
CONVENIENCE STORE: 2 SPACES PER 1,000 S.F. x 2,000 S.F. = 4 SPACES
RESTAURANT: 14 SPACES PER 1,000 S.F. x 2,070 S.F. = 29 SPACES
TOTAL REQUIRED: 37 SPACES
 - PROVIDED: 37 SPACES
- OPEN SPACE (LANDSCAPING)
 - REQUIRED: 20% OR 9,990 S.F.
 - PROVIDED: 21% OR 10,409 S.F.
- BUILDING COVERAGE:
 - CONVENIENCE STORE/RESTAURANT: 4,070 S.F.
 - CAR WASH: 1,108 S.F.
 - CANOPY: 2,520 S.F.
 - TOTAL BUILDING COVERAGE: 7,698 S.F.
- CAR WASH STACKING:
 - REQUIRED: 9 (NINE)
 - PROVIDED: 9 (NINE)
- PROJECT BACKGROUND: SDP 74-82; CASE BA 93-19E; BA-99-52 E&V

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING BOHLER ENGINEERING, P.C. AT (410) 821-7900 IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFIC WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT, SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING WORK:

HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION	(410) 313-1880
MISS UTILITY	(800) 257-7777
C&P TELEPHONE CO.	(410) 725-9976
HOWARD COUNTY BUREAU OF UTILITIES	(410) 313-2366
AT&T CABLE LOCATION DIVISION	(410) 393-3553
BC&E	(410) 685-0123

 NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO THE START OF WORK (410) 313-1855.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A GASOLINE STATION, CONVENIENCE STORE, RESTAURANT AND CAR WASH.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY TO NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE CONVENIENCE/RESTAURANT STORE SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
- ALL DETERGENT USED IN THE CAR WASH FACILITY SHALL BE "PHOSPHATE FREE" AS PER HOWARD COUNTY REGULATIONS.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. A WATER METER SHALL BE LOCATED WITHIN THE CONVENIENCE STORE AND WILL MEET ALL HOWARD COUNTY STANDARDS.
- EXISTING WATER IS SHOWN PER CONTRACT NO. 44-3483. SEWER SHALL BE PROVIDED TO THE SITE BY CAPITAL PROJECT #5-6210 CONTRACT NO. 30.3770.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 35A1 AND 34C2 WERE USED FOR THIS PROJECT.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY CONTROL POINT ASSOCIATES DATED 5/29/97.
- 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 LIGHTING MUST BE DIRECTED AWAY FROM ADJACENT PUBLIC RIGHT OF WAY AND THE ADJACENT RESIDENTIAL PROPERTIES AND COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT (410) 313-1880
- ALL REFUSE SHALL BE STORED IN THE PROPOSED MASONRY TRASH ENCLOSURE IN ACCORDANCE WITH THE HOWARD COUNTY RULES AND REGULATIONS FOR REFUSE COLLECTION.
- THIS PROJECT IS SUBJECT TO THE DECISION AND ORDER FOR BA-99-52E & V WHICH WAS SIGNED ON MARCH 30, 2000 AND IS SUBJECT TO SIX (6) CONDITIONS OF APPROVAL THE FOLLOWING IS THE LIST OF CONDITIONS:
 - THE SPECIAL EXCEPTION FOR THE GASOLINE SERVICE STATION WITH CAR WASH, CONVENIENCE STORE, AND FAST FOOD RESTAURANT AS DESCRIBED IN THE AMENDED PETITION AND PLAN SUBMITTED SEPTEMBER 28, 1999 TO THE BOARD, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE SUBJECT PROPERTY.
 - LIGHTING SHALL BE SHIELDED AND DIRECTED SO THAT IT DOES NOT ILLUMINATE OR SHINE ON ADJOINING PROPERTY OR PRODUCE GLARE WHICH WOULD CAUSE A HAZARD FOR MOTOR VEHICLE OPERATORS IN THE VICINITY OF THE SITE.
 - THE PETITIONER SHALL INSTALL ANY ROAD IMPROVEMENTS REQUIRED BY THE STATE HIGHWAY ADMINISTRATION.
 - THE ACCESS TO MD 108 SHALL BE DESIGNED AS A RIGHT-IN/RIGHT-OUT ONLY ACCESS.
 - THE ACCESS ON TEN OAKS ROAD NEAREST TO MD 108 SHALL BE DESIGNED AS A RIGHT-IN/RIGHT-OUT ONLY ACCESS.
 - THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAND REGULATIONS.
 ALTHOUGH NOT A CONDITION OF APPROVAL FOR BA-99-52E&V, THE FAST FOOD RESTAURANT IS NOT PERMITTED TO HAVE A DRIVE-THROUGH SERVICE WINDOW, IN ACCORDANCE WITH THE APPROVED, AMENDED PETITIONER'S EXHIBIT DATED 9/28/99.
- BA-99-52E&V WAS APPROVED WITH TWO VARIANCES TO REDUCE THE 30' USE SETBACK TO 14.3' FOR STACKING OF VEHICLES AT THE ENTRANCES OFF OF TEN OAKS ROAD, AND TO REDUCE THE 30' USE SETBACK TO 21.8' FOR STACKING OF VEHICLES AT THE PUMP STATIONS CLOSEST TO THE ENTRANCE AT ROUTE 108. An extension for this approval was granted by the Board of Appeals on April 9, 2002.
- STORMWATER MANAGEMENT QUALITY HAS BEEN ADDRESSED BY A 20% DECREASE IN IMPERVIOUS AREA. A STORMWATER MANAGEMENT QUANTITY WAIVER HAS BEEN APPROVED FOR THIS SITE.
- THERE ARE NO STREAMS, WETLANDS, OR FLOODPLAINS ON SITE.
- THERE ARE NO KNOWN CEMETERIES ON SITE.
- STORMWATER MANAGEMENT HAS BEEN PROVIDED UNDER RE-DEVELOPMENT CRITERIA BY REDUCING THE IMPERVIOUS AREA FROM THE EXISTING 93% TO A PROPOSED 72% IN ACCORDANCE WITH DMV I, SECTION 5.2.1.E.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY TRAFFIC GROUP INC. DATED MAY 9, 2001 AND WAS APPROVED ON JANUARY 11, 2002.
- THE FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT IS 0.1 ACRE OF AFFORSTATION. THE OBLIGATION IS BEING FULFILLED BY THE PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$2,178.00 TO THE FOREST CONSERVATION FUND.

SHEET INDEX

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY PLAN
6	SEDIMENT AND EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
8	SITE LANDSCAPE AND FOREST CONSERVATION PLAN
9	SITE LANDSCAPE NOTES AND DETAILS
10	SITE LIGHTING PLAN
11	UTILITY PROFILES
12	DRAINAGE AREA MAPS
13	CONSTRUCTION NOTES AND DETAILS
14	CONSTRUCTION NOTES AND DETAILS
15	RETAINING WALL DETAILS
16	RETAINING WALL DETAILS
17	ROAD IMPROVEMENT PLAN
18	BUILDING ELEVATION PLAN
19	PAVEMENT MARKING PLAN

EXISTING	LEGEND	PROPOSED
---	ON-SITE PROPERTY LINE / R.O.W. LINE	---
---	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	---
---	EASEMENT LINE	---
---	BUILDING/PARKING SETBACK LINE	---
---	R.O.W. CENTERLINE	---
---	SANITARY SEWER MAIN	S
---	SANITARY SEWER LATERAL	S
---	STORM SEWER	---
---	WATER LINE	W
---	GAS LINE	G
---	UG ELECTRIC LINE	E
---	UG TELEPHONE LINE	T
---	OH WIRE	OH
---	UG CABLE LINE	C
---	EDGE OF PAVEMENT	---
---	CONCRETE CURB	---
---	CONCRETE CURB (TOR)	---
---	REVERSE CURB	---
---	CONCRETE CURB & GUTTER	---
---	BUILDING LINE	---
---	INDEX CONTOUR LINE	---
---	INTERMEDIATE CONTOUR LINE	---
---	SPOT ELEVATION	IC 603.7 OR 603.7
---	RIP RAP	---
---	FLARED END SECTION	---
---	HEADWALL OR ENDWALL	---
---	TEST PIT	TP
---	STORM DRAIN MANHOLE	---
---	YARD INLET	---
---	GRATE INLET	---
---	CURB INLET	---
---	STORM STRUCTURE NO. LABEL	B
---	DECORATIVE AREA LIGHT	---
---	AREA / YARD LIGHT	C/L
---	CLEANOUT	---
---	HYDRANT	---
---	WATER METER	---
---	WATER VALVE	---
---	GAS VALVE	---
---	UTILITY POLE	---
---	TRAFFIC SIGNAL SIGN	---
---	TYPICAL NOTE TEXT	---

N 27°54'32" E TYPICAL METES & BOUNDS DESCRIPTION TEXT N 27°54'32" E

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION & LAND DEVELOPMENT
 DIRECTOR
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

GENERAL NOTE:
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 621-7900 FAX: (410) 621-7977 MD@bohlereng.com

3-14-02
 DATE:
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY



OWNER: MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER: MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT OR L/F	467/414	BLOCK	12	ZONING	B-2
WATER CODE	111	TAX MAP NO.	34	ELECT. DISTR.	5
		SEWER CODE		CENSUS TRACT	6023.03
				UNAVAILABLE	
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: MB600CVO					
SHELL OIL COMPANY MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
COVER SHEET					
DESIGN BY: G.H.R.	SCALE: NOT TO SCALE	PROJECT NO.: MD8660			
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER			
CHECKED BY: A.J.V.	APPROVED: A.J.V.	1 OF 19			

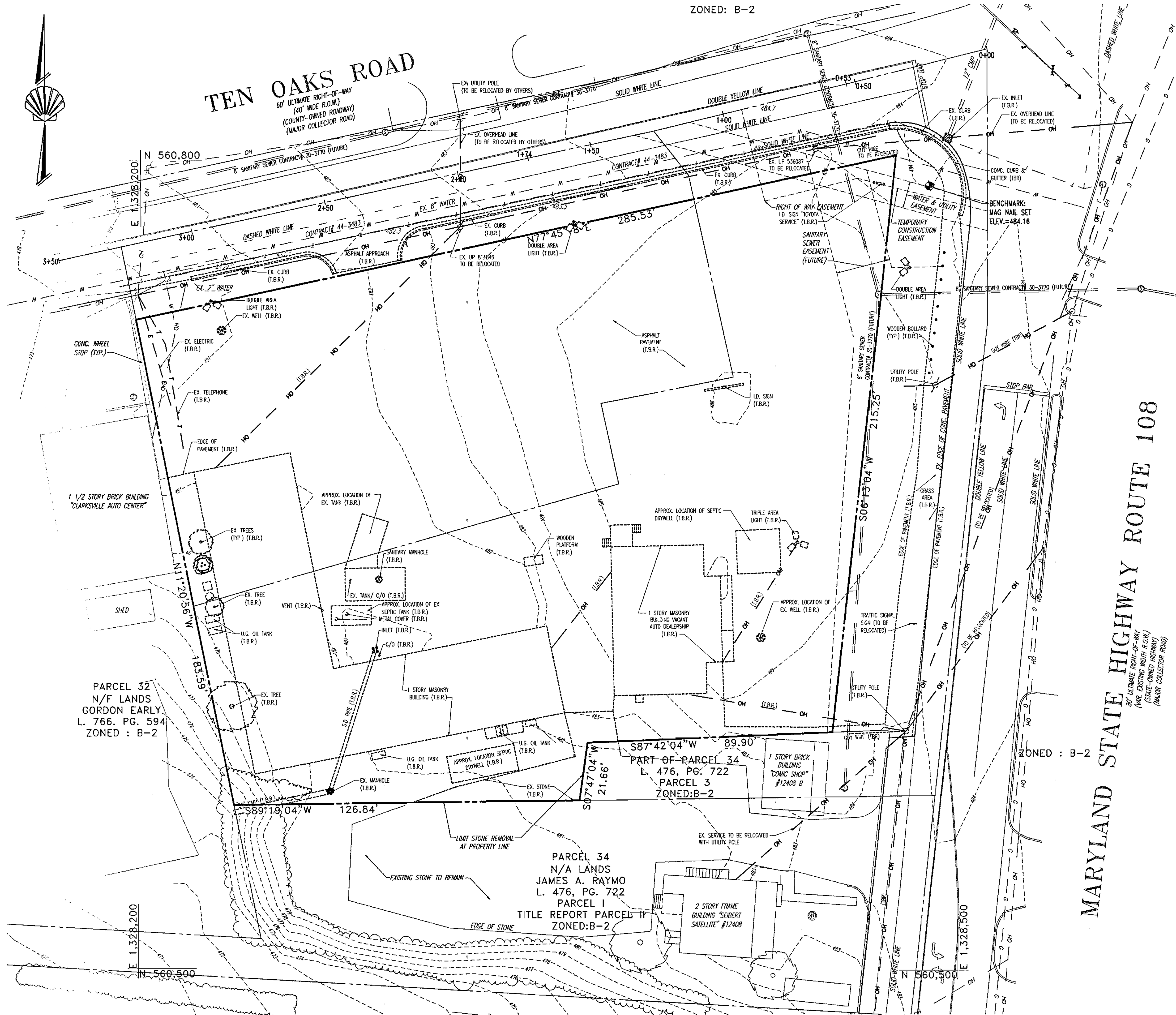
SDP-01-98

ZONED: B-2

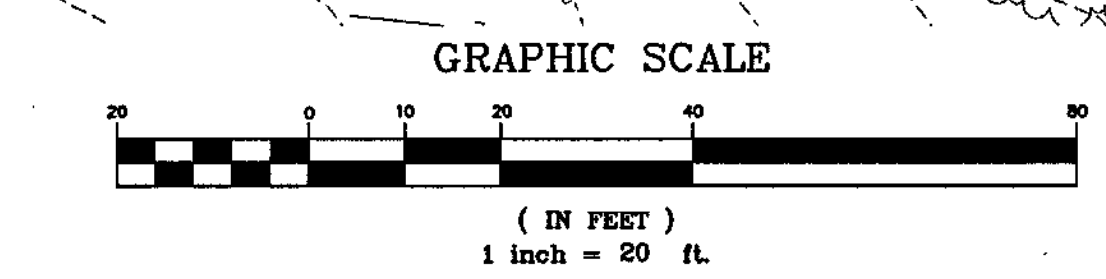
DEMOLITION NOTES:

1. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
3. COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
4. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
5. REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
6. BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY MOTIVA.
7. LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS TO NOT IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
8. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
9. DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, IF ANY, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT GRADE. BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE.
10. CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS AND OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF MOTIVA AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATION.
11. USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
12. ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
13. COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED WILL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO INSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE.
14. REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES. REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
15. DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION. MARK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY, BEFORE THE COMMENCEMENT OF DEMOLITION, SERVICES THAT REQUIRE INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO INSURE THE CONTINUATION OF SERVICE.
16. PRIOR TO THE ONSET OF DEMOLITION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES ON SITE AND COORDINATE REMOVAL OF SAID UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
17. PRIOR TO THE ONSET OF DEMOLITION THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED BY HOWARD COUNTY, THE STATE OF MARYLAND AND ANY APPLICABLE FEDERAL AGENCIES.
18. T.B.R.=TO BE REMOVED.
19. ALL EXISTING SHRUBBERY WITH IN THE LIMITS OF DISTURBANCE IS TO BE REMOVED UNLESS OTHERWISE NOTED.
20. ALL EXISTING CURB ON THE MOTIVA SITE IS TO BE REMOVED.
21. EXISTING ON-SITE WELL SHALL BE ABANDON IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS.
22. THE EXISTING OVERHEAD ELECTRIC SERVICE LINE SHALL BE REMOVED PRIOR TO DEMOLITION, AS WELL AS RELOCATION OF ANY TRANSFORMERS.
23. ANY OTHER FEATURES NOT SHOWN ON THIS SURVEY, BUT NOT SITE SPECIFIC TO THE MOTIVA ARE TO BE REMOVED, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FENCES, AND SIGNS.
24. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE SITE AT ALL TIMES DURING THE DEMOLITION PROCESS.
25. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS ARE SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUTS DO NOT ENSURE MAPPINGS OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANY.
26. ELEVATIONS ARE BASED UPON NGVD 1929 DATUM, REFERENCE HOWARD COUNTY CONTROL STATIONS 35A1 & 35A2.
27. PROPERTY IS LOCATED IN FLOOD HAZARD ZONE C (AREAS OF MINIMAL FLOODING). PER MAP ENTITLED "NATIONAL FLOODING INSURANCE PROGRAM" FIRM-FLOOD INSURANCE RATE MAP, HOWARD COUNTY, MARYLAND, PANEL 32 OF 45, COMMUNITY-PANEL NUMBER 240044 0032 B, MAP REVISED 12-4-86.
28. MARYLAND STATE PLANE GRID NORTH REFERENCES HOWARD COUNTY SURVEY CONTROL STATIONS 35A1 & 35A2, NAD83.
29. EXISTING ON-SITE SEPTIC SYSTEMS SHALL BE REMOVED WITH HOWARD COUNTY HEALTH DEPARTMENT REQUIREMENTS PRIOR TO REMOVAL OF ANY STRUCTURES.
30. EXISTING ITEMS TO BE REMOVED ARE DEPICTED W/DASHED LINETYPES.

NOTE:
 ABANDONMENT OF ON-SITE WELLS AND SEPTIC SYSTEMS MUST BE APPROVED BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO COMMENCEMENT ANY ON-SITE DEMOLITION.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/26/02
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 [Signature] 4/10/02
 CHIEF-DIVISION & LAND DEVELOPMENT
 [Signature] 4/13/02
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 [Signature] 4/3/02
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT



3-14-02
 DATE
 STATE OF MARYLAND
 [Signature]
 PROFESSIONAL ENGINEERING
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
 BEFORE YOU DIG CALL
 1-800-257-7777
 PROTECT YOURSELF, ONE THREE WORKING DAYS NOTICE
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE GOVERNMENTAL AGENCIES AND AUTHORITIES.

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	N/A
PLAT OR L/F	467/414	TAX MAP NO.	34
BLOCK	12	ELECT. DISTR.	5
ZONING	B-2	SEWER CODE	UNAVAILABLE
LOT/PARCEL NO.	33 & 93	CENSUS TRACT	6023.03
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 93	6390 TEN OAKS ROAD		
TITLE: M0600550 SHELL OIL COMPANY			
NO. ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
EXISTING CONDITIONS PLAN			
DESIGN BY:	G.H.R.	SCALE:	1"=20'
DRAWN BY:	R.L.B.	DATE:	10/22/01
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.
PROJECT NO.:	M058600	DRAWING NUMBER	2 OF 19

SDP-01-98

SDP-01-98

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 MD@bchlereng.com

GENERAL NOTES:

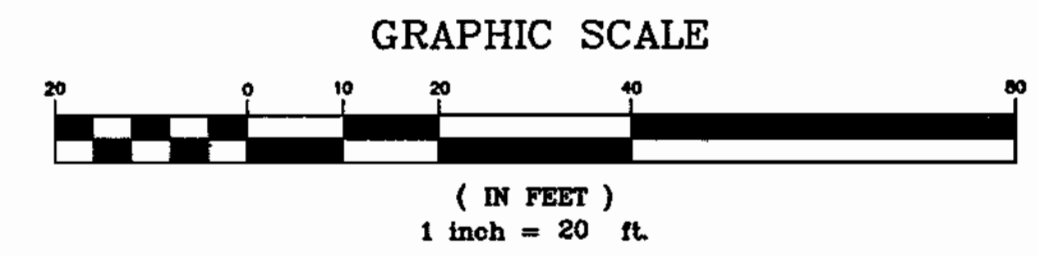
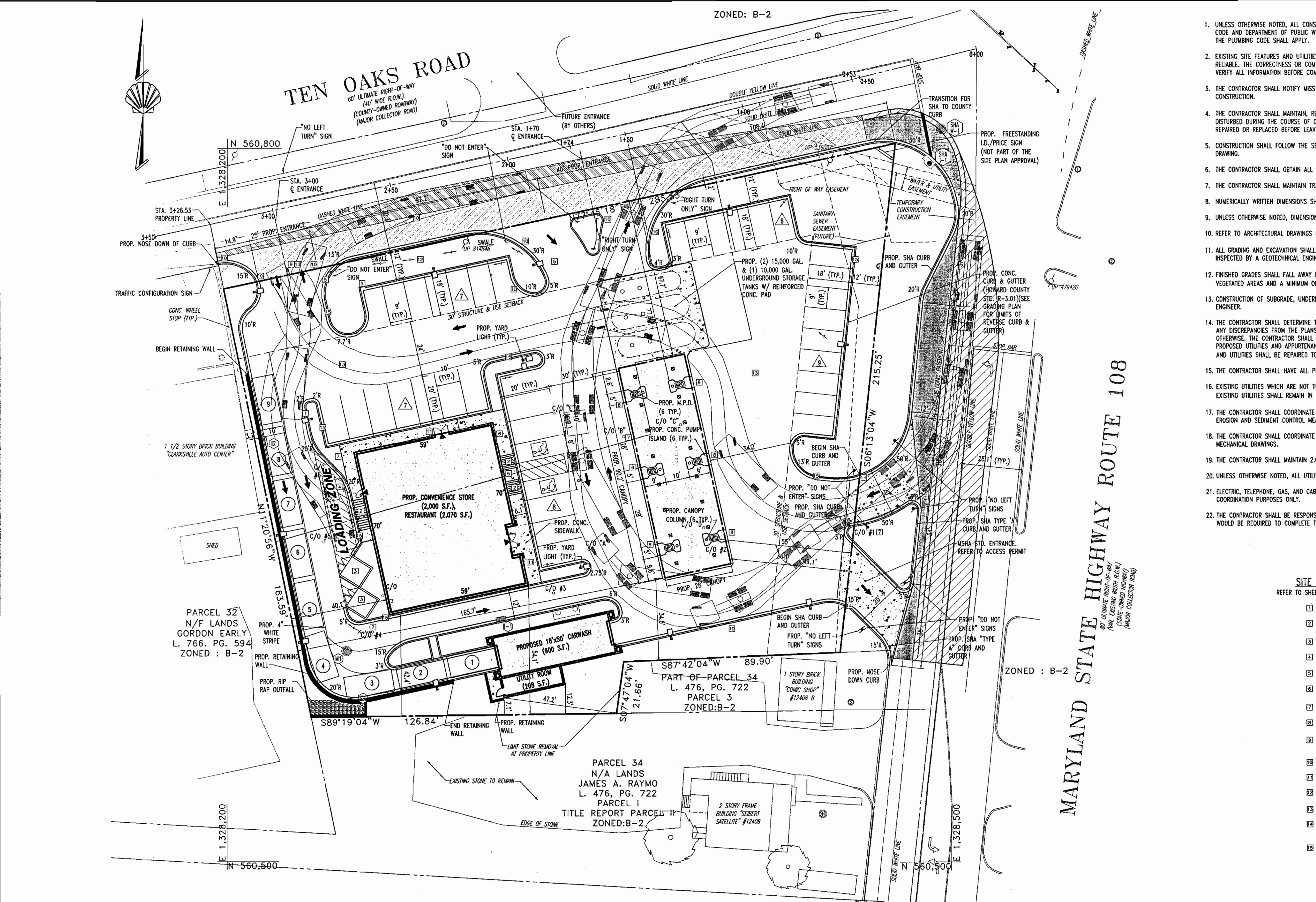
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY PLUMBING CODE AND DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS. IN CASE OF CONFLICT OR DISCREPANCY, THE PLUMBING CODE SHALL APPLY.
- EXISTING SITE FEATURES AND UTILITIES SHOWN HAVE BEEN BASED UPON SURVEYS AND OTHER SOURCES BELIEVED TO BE RELIABLE. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF FIVE WORKING DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN, REPAIR, AND/OR REPLACE ANY EXISTING SEDIMENT CONTROL DEVICES ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION. AT THE END OF EACH DAY, ALL MEASURES AND DEVICES SHALL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE.
- CONSTRUCTION SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION ON THE APPROVED EROSION AND SEDIMENT CONTROL DRAWING.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
- NUMERICALLY WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- UNLESS OTHERWISE NOTED, DIMENSIONS FROM CURB ARE MEASURED AT FACE OF CURB.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
- ALL GRADING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT AND INSPECTED BY A GEOTECHNICAL ENGINEER.
- FINISHED GRADES SHALL FALL AWAY FROM EXISTING AND PROPOSED BUILDINGS AT A MINIMUM OF 1/4 INCH PER FOOT FOR VEGETATED AREAS AND A MINIMUM OF 1/8 INCH PER FOOT FOR PAVED AREAS UNLESS OTHERWISE INDICATED.
- CONSTRUCTION OF SUBGRADE, UNDERDRAINS, AND PAVING SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES, AS NECESSARY. REPORT ANY DISCREPANCIES FROM THE PLANS TO BOHLER ENGINEERING, P.C. ALL UTILITIES SHALL BE RETAINED UNLESS LABELED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST AND WORK REQUIRED TO ADJUST EXISTING AND PROPOSED UTILITIES AND APPURTENANCES TO FINISH GRADES WITHIN THE LIMITS OF WORK. DAMAGE TO EXISTING CONDITIONS AND UTILITIES SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL HAVE ALL PRIVATE UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
- EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UTILITIES TO AVOID CONSTRUCTION PROBLEMS/CONFLICTS WITH EROSION AND SEDIMENT CONTROL MEASURES. SEE APPROVED SEDIMENT CONTROL PLAN.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WATER, SEWER, AND DRAIN HOUSE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN 2.0 FEET MINIMUM COVER OVER ALL UTILITIES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL UTILITY CONNECTIONS SHALL BE CAPPED OR PLUGGED FIVE FEET FROM BUILDING.
- ELECTRIC, TELEPHONE, GAS, AND CABLE TO BE DESIGNED BY OTHERS. WHERE THOSE FACILITIES ARE SHOWN, THEY ARE FOR COORDINATION PURPOSES ONLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK NOT SPECIFICALLY MENTIONED ON THE PLANS WHICH NORMALLY WOULD BE REQUIRED TO COMPLETE THE PROJECT.

SITE PLAN DESIGN NOTES & KEY PLAN
REFER TO SHEETS 13 AND 14 FOR HOWARD COUNTY STANDARD DETAILS

- 1 CONCRETE & PAVING
- 2 HANDICAP RAMP
- 3 10'x20' TRASH ENCLOSURE
- 4 GREASE TRAP
- 5 TYPICAL CURB BREAK
- 6 HANDICAP SIGN
- 7 TYPICAL CLEANOUT
- 8 "U" BOLLARD
- 9 GASOLINE SERVICE STATION ENTRANCE HO. CO. DETAIL R-6.11
- 10 6" COMBINATION CURB & GUTTER
- 11 CONCRETE SIDEWALK
- 12 TRIANGULAR OPEN CHANNELS
- 13 PAVING SECTION
- 14 TRANSITION FOR OFF-SITE TO ON-SITE CURB & GUTTER
- 15 REVERSE CURB

SDP-01-98

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT OR L/P	407/414	BLOCK	12	TAX MAP NO.	34
WATER CODE	111	ZONING	B-2	ELECT. DISTR.	5
		SEWER CODE		CENSUS TRACT	6023.03
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M0600SSD SHELL OIL COMPANY					
MD ROUTE 108 AND TEN OAKS ROAD					
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
SITE LAYOUT PLAN					
DESIGN BY: G.H.R.	SCALE: 1"=20'	PROJECT NO.: M0600SSD		DRAWING NUMBER	
DRAWN BY: R.L.B.	DATE: 10/22/01			3 OF 19	
CHECKED BY: A.J.V.	APPROVED: A.J.V.				



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION & LAND DEVELOPMENT
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENELAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 | MD@bohlereng.com

3-14-02
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
 BEFORE YOU DIG CALL 1-800-257-7777
 PROTECT YOURSELF, ONE THREE HOURS MORNING DATA NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPROVED.
 THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER: MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029
 DEVELOPER: MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

SDP-01-98

ZONED: B-2

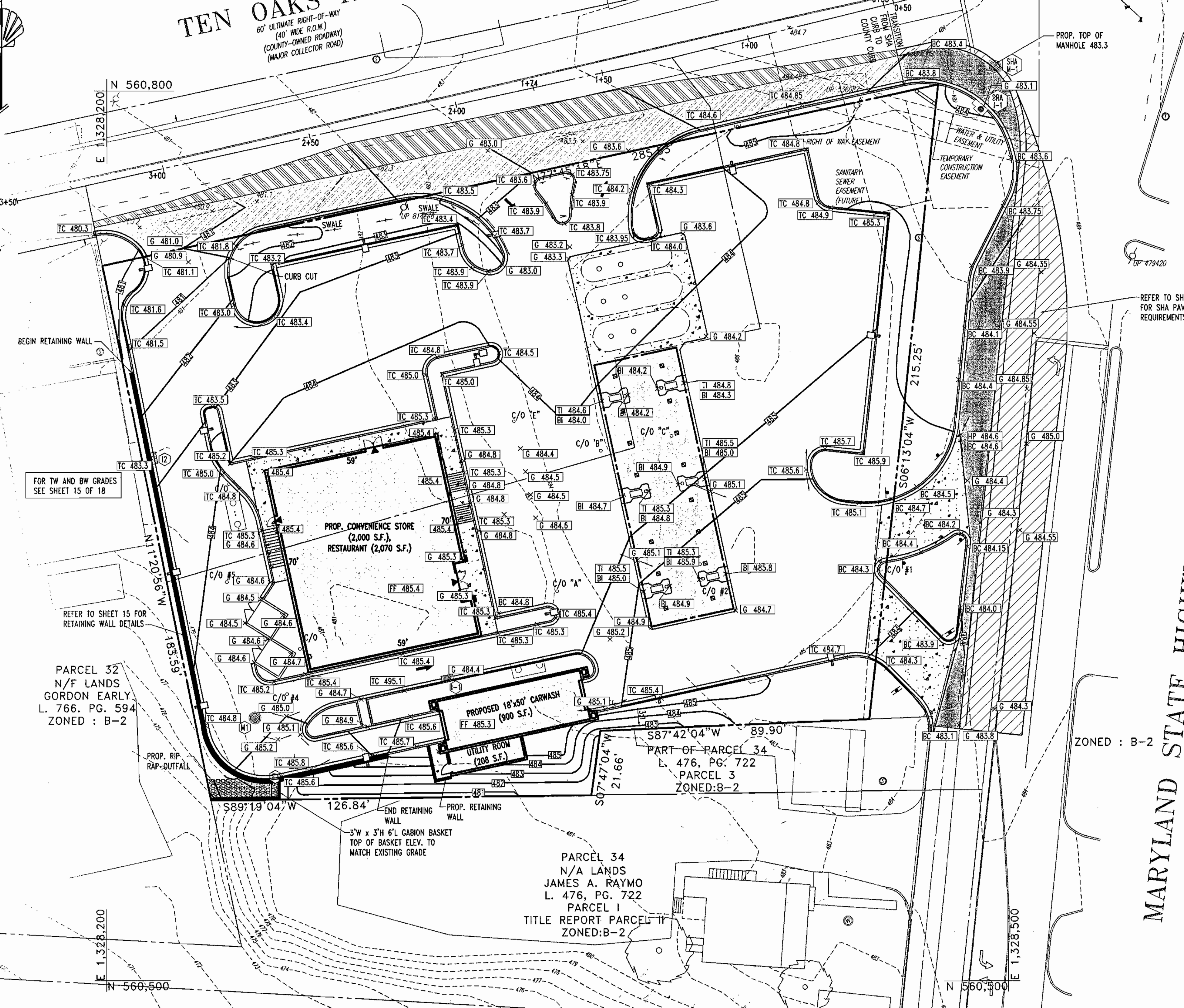
TEN OAKS ROAD
60' ULTIMATE RIGHT-OF-WAY
(40' WIDE R.O.W.)
(COUNTY-OWNED ROADWAY)
(MAJOR COLLECTOR ROAD)

GRADING NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHY AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL GUTTERS TO PREVENT PONDING. ANY DISCREPANCIES SHALL BE PROVIDED TO THE ENGINEER IN WRITING IMMEDIATELY.
- SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND STANDARDS OF THE LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED, LICENSED, SOILS ENGINEER, CERTIFYING THAT THE SUBBASE WITHIN THE AREAS TO BE PAVED HAS BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICES CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST POINTS. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL SPOT SHOTS ON PROPOSED CURBS ARE TAKEN FROM TOP OF CURB AND ARE TO BE 6" TO BOTTOM OF CURB UNLESS OTHERWISE NOTED.
- ALL ROAD WIDENING TO BE IN ACCORDANCE WITH HOWARD COUNTY STD. DETAIL R-10-01 AND STATE HIGHWAY ADMINISTRATION STANDARD DETAILS AND SPECS. (SEE SHEET 17)
- STORMWATER MANAGEMENT HAS BEEN PROVIDED UNDER RE-DEVELOPMENT CRITERIA BY REDUCING THE IMPERVIOUS AREA FROM THE EXISTING 93% TO A PROPOSED 72% IN ACCORDANCE WITH DMV I, SECTION 5.2.1.E.

NOTES:

- ALL CURB ELEVATIONS IN SHA R.O.W. (MD ROUTE 108) ARE TO BOTTOM CURB. ALL SHA CURB IS 8" HIGH. REFER TO SHEET 17 OF 19 FOR CURB DETAIL.
- TOP OF WALL AND BOTTOM OF WALL ELEVATIONS CAN BE FOUND ON SHEET 15 OF 19.



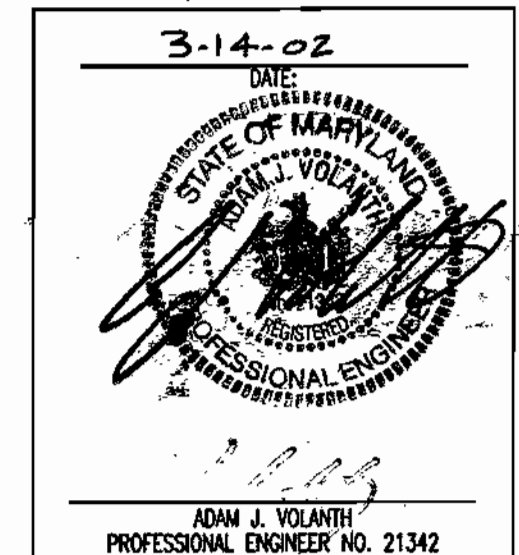
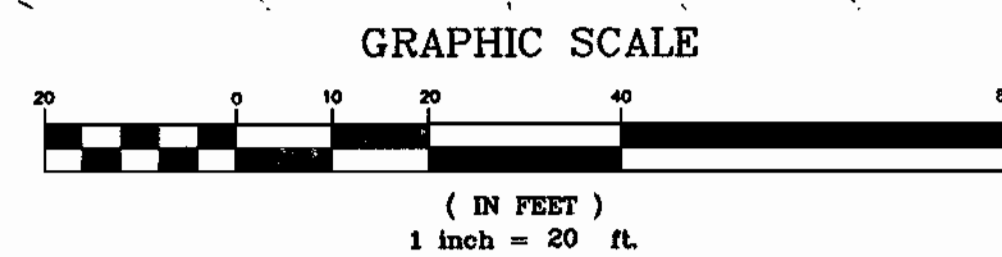
FOR TW AND BW GRADES SEE SHEET 15 OF 18

REFER TO SHEET 15 FOR RETAINING WALL DETAILS

PARCEL 32
N/F LANDS
GORDON EARLY
L. 766, PG. 594
ZONED: B-2

PARCEL 34
N/A LANDS
JAMES A. RAYMO
L. 476, PG. 722
PARCEL 3
TITLE REPORT PARCEL 11
ZONED: B-2

MARYLAND STATE HIGHWAY ROUTE 108
60' ULTIMATE RIGHT-OF-WAY
(40' WIDE R.O.W.)
(COUNTY-OWNED ROADWAY)
(MAJOR COLLECTOR ROAD)



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

Signature: *Adam J. Volant* DATE: 3/14/02
ADAM J. VOLANT P.E.

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

Signature: *Clarence Lee* DATE: 3/14/02
CLARENCE LEE

SDP-01-98

PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	N/A
PLAT# OR L/F	467/414	ZONING	B-2
BLOCK#	12	TAX MAP NO.	34
WATER CODE	111	ELECT. DISTR.	5
		SEWER CODE	UNAVAILABLE
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 93	6390 TEN OAKS ROAD		
TITLE: M8600SS0			
SHELL OIL COMPANY			
MD ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
SITE GRADING PLAN			
DESIGN BY:	G.H.A.	SCALE:	1"=20'
DRAWN BY:	R.L.B.	DATE:	10/22/01
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.
PROJECT NO. MD99800			DRAWING NUMBER
			4 OF 19

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief-Development Engineering Division: *[Signature]* DATE: 2/20/02

Chief-Division & Land Development: *[Signature]* DATE: 4/15/02

Director: *[Signature]* DATE: 4/16/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Brantley, M.D. DATE: 4/3/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

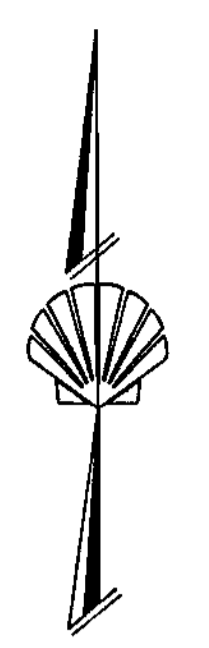
BOHLER ENGINEERING

PROFESSIONAL ENGINEERING SERVICES
810 GLENDALES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7927

OWNER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

DEVELOPER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

SDP-01-98



TEN OAKS ROAD
 60' ULTIMATE RIGHT-OF-WAY
 (140' WIDE R.O.W.)
 (COUNTY-OWNED ROADWAY)
 (MAJOR COLLECTOR ROAD)

ZONED: B-2

UTILITY NOTES:

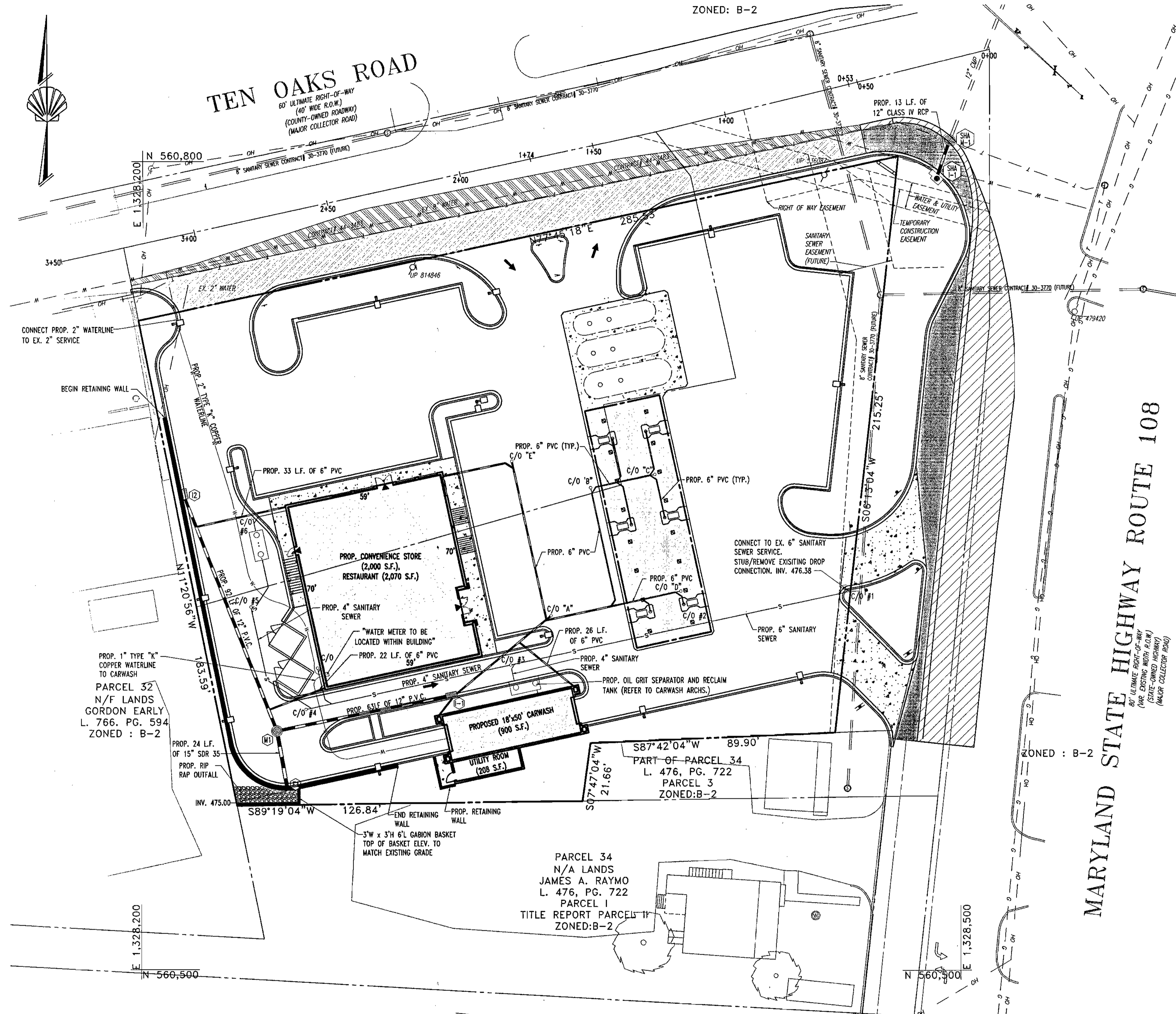
- ALL UTILITY POLE RELOCATIONS MUST BE COORDINATED WITH THE RESPECTIVE ELECTRIC COMPANY.
- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICES CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST POINTS. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES NOT LOCATED WITHIN PUBLIC RIGHT-OF-WAY, INCLUDING THE DETENTION BASIN, SHALL BE THE RESPONSIBILITY OF THE LOT OWNER. DETENTION BASINS, SWALES, AND OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN DESIGN CONDITION AND FREE OF FILL AND OBSTRUCTIONS.
- A MINIMUM VERTICAL SEPARATION OF 12" SHALL BE MAINTAINED BETWEEN SANITARY SEWER LINES AND STORM LINES OR WATER LINES. IF THIS MINIMUM CLEARANCE CANNOT BE MAINTAINED, A CONCRETE ENCASEMENT SHALL BE PROVIDED.
- EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND ALLOW FOR THEIR LOCATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
- ALL EXCAVATIONS THAT ARE DEEPER THAN 5 FEET SHOULD BE PROPERLY SLOPED OR OTHERWISE STRUCTURALLY RETAINED TO PROVIDED STABLE AND SAFE WORKING CONDITIONS. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS CALL FOR MINIMUM SLOPES OF 1H:1V. OSHA REQUIREMENTS MUST BE FOLLOWED AND ADEQUATE PROTECTION PROVIDED FOR WORKERS.
- ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
- ALL STORM DRAIN, WATER, SEWER AND PRODUCT PIPING UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION, AND MOTIVA SPECIFICATIONS.
- SANITARY CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE IDENTIFIED AS SANITARY CLEANOUTS, THREADED, AND CONTAIN COUNTERSUNK PLUGS.
- WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
- WATER SERVICE SHALL BE TYPE "K" COPPER TUBING. SANITARY SEWER PIPE SHALL BE SDR 35 PVC. CERTAIN SECTIONS OF THE SERVICES REQUIRE SPECIAL PIPE TYPES WHICH ARE NOTED ON THE PLAN.
- WATER AND SEWER SERVICES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR FOR HORIZONTAL AND VERTICAL ALIGNMENT AND CONNECTIONS.
- PROPOSED 2" WATER METER SHALL BE LOCATED INSIDE THE BUILDING.

MARYLAND STATE HIGHWAY ROUTE 108
 80' ULTIMATE RIGHT-OF-WAY
 (PART EXISTING WITH R.O.W.)
 (STATE-OWNED HIGHWAY)
 (MAJOR COLLECTOR ROAD)

STRUCTURE #	TYPE	INV. IN	INV. OUT	TOP ELEV.	COMMENTS
I1	TYPE "S" INLET HOWARD COUNTY STD. SD 4.32	480.54	479.4	484.4	6" ROOF DRAIN INV. 480.3
M1	STD. SHALLOW MANHOLE MSHA STD. MD 383.00	479.00/479.05	478.7	484.9	6" ROOF DRAIN INV. 481.9
I2	TYPE "S" INLET HOWARD COUNTY STD. SD 4.32	---	479.7	482.8	---
E1	REFER TO RETAINING WALL DETAILS	478.0	478.0	---	---
SHA-1	5" SHALLOW COG INLET STD. MD 374.66	---	481.66	483.1	---
SHA-M-1	STD. SHALLOW MANHOLE MSHA STD. MD 383.00	481.54	481.44	---	---

SIZE	TYPE	TOTAL LENGTH
6"	SCHEDULE 40 P.V.C.	302 FT.
12"	SCHEDULE 40 P.V.C.	155 FT.
15"	SDR 35	24 FT.

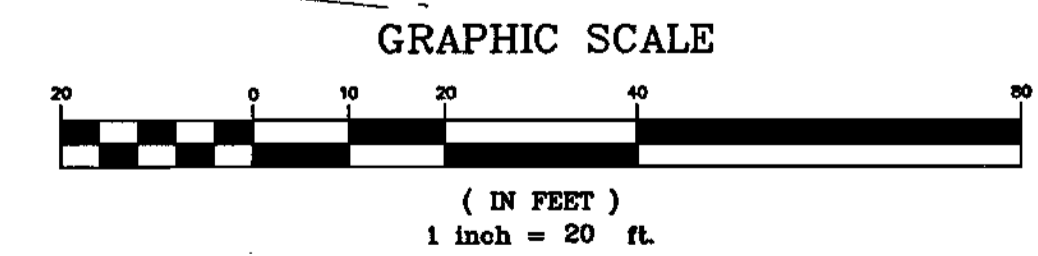
SIZE	TYPE	TOTAL LENGTH
12"	CLASS IV RCP	13 FT.



STRUCTURE #	TYPE	INV. IN	INV. OUT	TOP ELEV.	COMMENTS
I1	TYPE "S" INLET HOWARD COUNTY STD. SD 4.32	480.54	479.4	484.4	6" ROOF DRAIN INV. 480.3
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E1	REFER TO RETAINING WALL DETAILS	478.0	478.0	---	---
SHA-1	5" SHALLOW COG INLET STD. MD 374.66	---	481.66	483.1	---
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15"	SDR 35	24 FT.

SIZE	TYPE	TOTAL LENGTH
12"	CLASS IV RCP	13 FT.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/26/02
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 [Signature] 4/16/02
 CHIEF-DIVISION & LAND DEVELOPMENT
 [Signature] 4/16/02
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 [Signature] 4/3/02
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENACRES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 | MD@bohlere.com

3-14-02
 DATE
 STATE OF MARYLAND
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
 BEFORE YOU DIG CALL
 1-800-251-7777
 PROJECT YOURSELF, GIVE THREE
 WORKING DAYS NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY
 COMPONENTS FOR CONSTRUCTION SAFETY. ALL
 CONSTRUCTION MUST BE DONE IN COMPLIANCE
 WITH THE OCCUPATIONAL SAFETY AND HEALTH
 ACT OF 1970 AND ALL RULES AND REGULATIONS
 THEREOF APPLICABLE.
 THE CONTRACTOR TO CALL MISS UTILITY
 TO HAVE ALL EXISTING UTILITIES MARKED
 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

SDP-01-98					
PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
467/414	12	B-2	34	5	6023.03
WATER CODE	111	SEWER CODE	UNAVAILABLE		
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M8600SSD	SHELL OIL COMPANY MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029				
SITE UTILITY PLAN					
DESIGN BY: G.J.R.	SCALE: 1"=20'	PROJECT NO: M86800		DRAWING NUMBER	
DRAWN BY: R.L.B.	DATE: 10/22/01	PROJECT NO: M86800		DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	PROJECT NO: M86800		DRAWING NUMBER	
				5 OF 19	

SDP-01-98






TEN OAKS ROAD
60' ULTIMATE RIGHT-OF-WAY
(40' WIDE R.O.W.)
(COUNTY-OWNED ROADWAY)
(MAJOR COLLECTOR ROAD)

ZONED: B-2

SEQUENCE OF CONSTRUCTION

1. OBTAIN HOWARD COUNTY GRADING PERMIT.
2. NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
3. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO ANY LAND DISTURBANCE.
4. INSTALL ALL SILT FENCE AS INDICATED ON PLANS.(1 WEEK)
5. INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM.(1 DAY)
6. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE WITH SEED AND MULCH.(1 WEEK)
7. ROUGH GRADE SITE AND CONSTRUCT RETAINING WALL.(1 WEEK)
8. INSTALL STORM DRAIN. STABILIZE INLET WITH INLET PROTECTION AS INSTALLED.(1 WEEK)
9. COMPLETE INSTALLATION OF STORM DRAIN SYSTEM AND REMAINING ON-SITE UTILITIES. INCLUDING UNDERGROUND FUEL STORAGE TANKS.(2 WEEKS)
10. INSTALL CURB AND GUTTER.(3 WEEKS)
11. INSTALL CONVENIENCE STORE/RESTAURANT, CAR WASH, PUMP ISLAND, AND CANOPY.(8 WEEKS)
12. INSTALL PAVING BASE COURSE, REMOVE INLET PROTECTION PER THE SEDIMENT CONTROL INSPECTOR AND AS WORK PROGRESSES.(3 WEEKS)
13. INSTALL PAVING SURFACE COURSE.
14. FINE GRADE AND STABILIZE REMAINING SITE. INSTALL LANDSCAPING.(2 WEEKS)
15. CLEAN AND FLUSH OUT STORM DRAIN SYSTEM. DISPOSE OF SEDIMENT LADEN MATERIAL CLEANED OUT OF STORM DRAIN IN A MANNER APPROVED BY THE SEDIMENT CONTROL INSPECTOR.(1 DAY)
16. REMOVE ALL SEDIMENT CONTROL MEASURES AFTER RECEIVING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR.(1 WEEK)

LEGEND

-  STANDARD INLET PROTECTION
-  SILT FENCE
-  SUPER SILT FENCE
-  LIMIT OF DISTURBANCE
-  STABILIZED CONSTRUCTION ENTRANCE

NOTE: ACCESS TO THE SITE IS PERMITTED FROM TEN OAKS ROAD DURING CONSTRUCTION

ESTIMATE OF SEDIMENT CONTROL QUANTITIES

SUPER SILT FENCE: 660 L.F.
SILT FENCE: 405 L.F.
STABILIZED CONSTRUCTION ENTRANCE: 1 EA.
INLET PROTECTION: 3 EA.

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

SITE ANALYSIS DATA

1. TOTAL SITE AREA: 1.14 AC. OR 49,953 S.F.
2. TOTAL DISTURBED AREA: 1.54 AC. OR 67,363 S.F.
3. TOTAL IMPERVIOUS AREA: 1.21 AC. OR 53,003 S.F.
4. AREA TO VEGETATIVELY STABILIZED: 0.32 AC. OR 14,322 S.F.
5. EARTHWORK:
 - CUT: 857 C.Y.
 - FILL: 2,158 C.Y.
 - TOPSOIL: 212 C.Y.

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

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Adam J. Volanti 3/14/02
SIGNATURE OF ENGINEER DATE
ADAM J. VOLANTI P.E.

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

Clare Lee 3/14/02
SIGNATURE OF DEVELOPER DATE

SDP-01-98

PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	LOT/PARCEL NO.
PLAT OR L/F	467/414	ZONING	33 & 93
BLOCK	12	TAX MAP NO.	34
WATER CODE	111	ELECT. DISTR.	5
		SEWER CODE	UNAVAILABLE
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 93	6390 TEN OAKS ROAD		
TITLE: M8600SSD			
SHELL OIL COMPANY			
MD ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
SEDIMENT AND EROSION CONTROL PLAN			
DESIGN BY:	G.H.R.	SCALE:	1"=20'
DRAWN BY:	R.L.B.	DATE:	10/22/01
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.
PROJECT NO.:			M8600SSD
DRAWING NUMBER			6 OF 19

PARCEL 32
N/F LANDS
GORDON EARLY
L. 766, PG. 594
ZONED: B-2

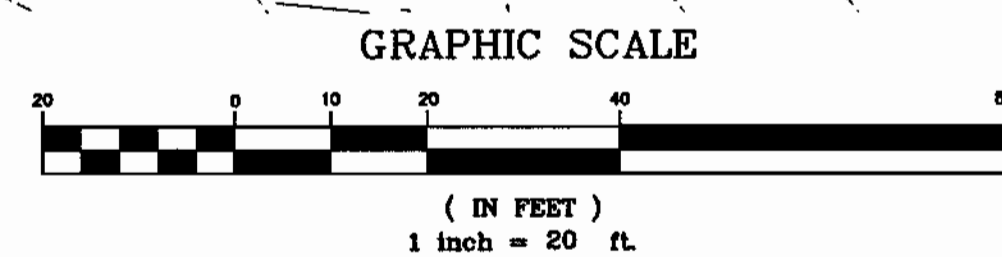
NOTE:
THE LIMIT OF DISTURBANCE SILT FENCE AND SUPER SILT FENCE SHALL COINCIDE WITH THE WEST AND SOUTH PROPERTY LINES.

PROP. CONVENIENCE STORE
(2,000 S.F.)
RESTAURANT (2,070 S.F.)

PROPOSED 18,500 CARWASH
(800 S.F.)

PARCEL 34
N/A LANDS
JAMES A. RAYMO
L. 476, PG. 722
PARCEL 1
TITLE REPORT PARCEL 1
ZONED: B-2

3'W x 3'H 6'L GABION BASKET
TOP OF BASKET ELEV. TO
MATCH EXISTING GRADE



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Jim Myers 3/25/02
USDA - NATURAL RESOURCES CONSERVATION SERVICE
DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SEDIMENT AND EROSION CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Stanton 3/25/02
HOWARD COUNTY HEALTH DEPARTMENT
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Michael... 3/20/02
CHIEF-DEVELOPMENT ENGINEERING DIVISION
Cindy... 4/15/02
CHIEF-DIVISION OF LAND DEVELOPMENT
David... 4/15/02
DIRECTOR
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Penny... 4/15/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

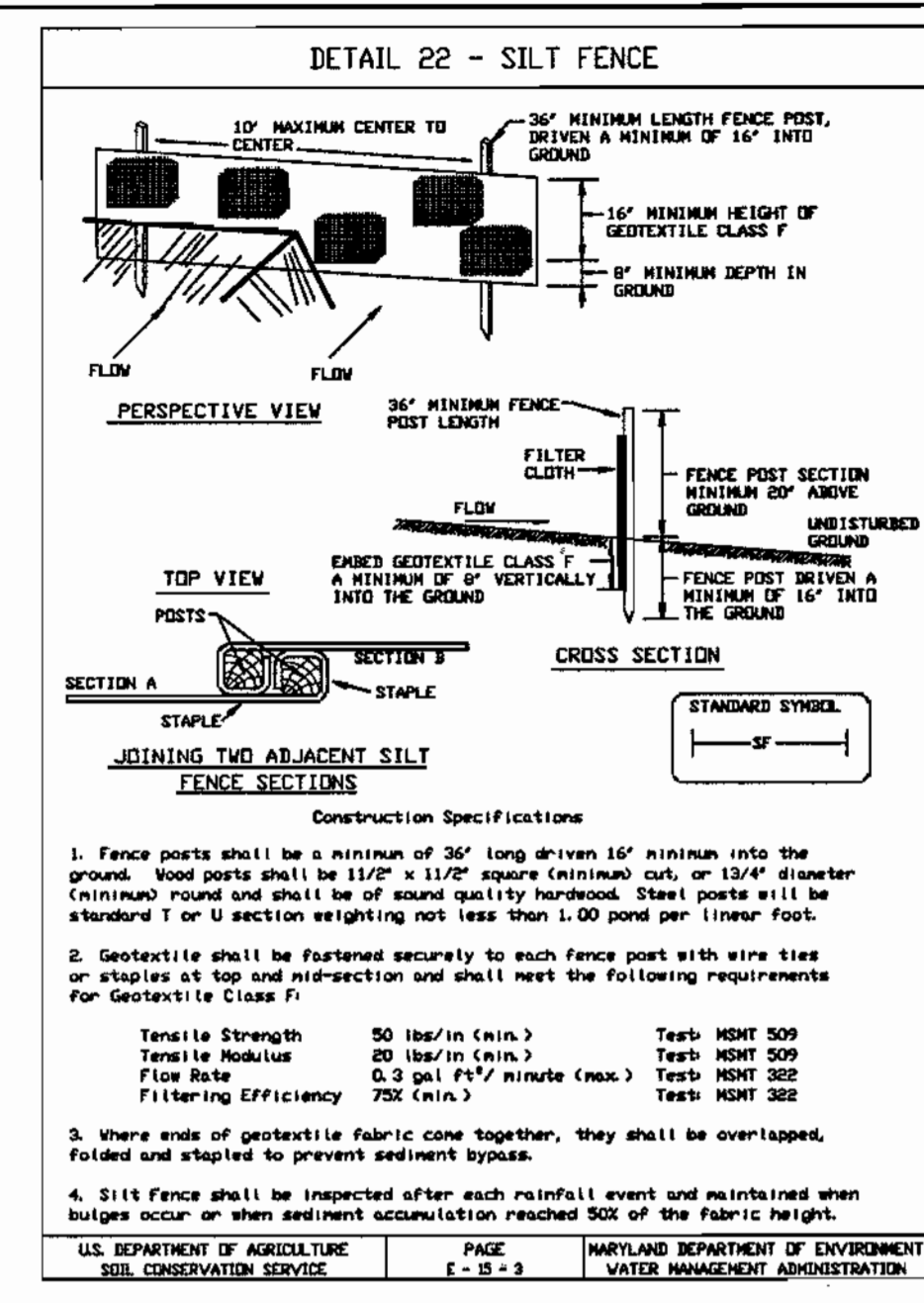
BOHLER ENGINEERING
PROFESSIONAL ENGINEERING SERVICES
810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 851-7900 FAX: (410) 851-7907 | MD@bohlereng.com

3-14-02
DATE
Adam J. Volanti
PROFESSIONAL ENGINEER
ADAM J. VOLANTI
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
BEFORE YOU DIG CALL
1-800-387-7277
PROTECT YOURSELF, GIVE THREE
WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS HERETO APPROPRIATE.
THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029
DEVELOPER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029

SDP-01-98



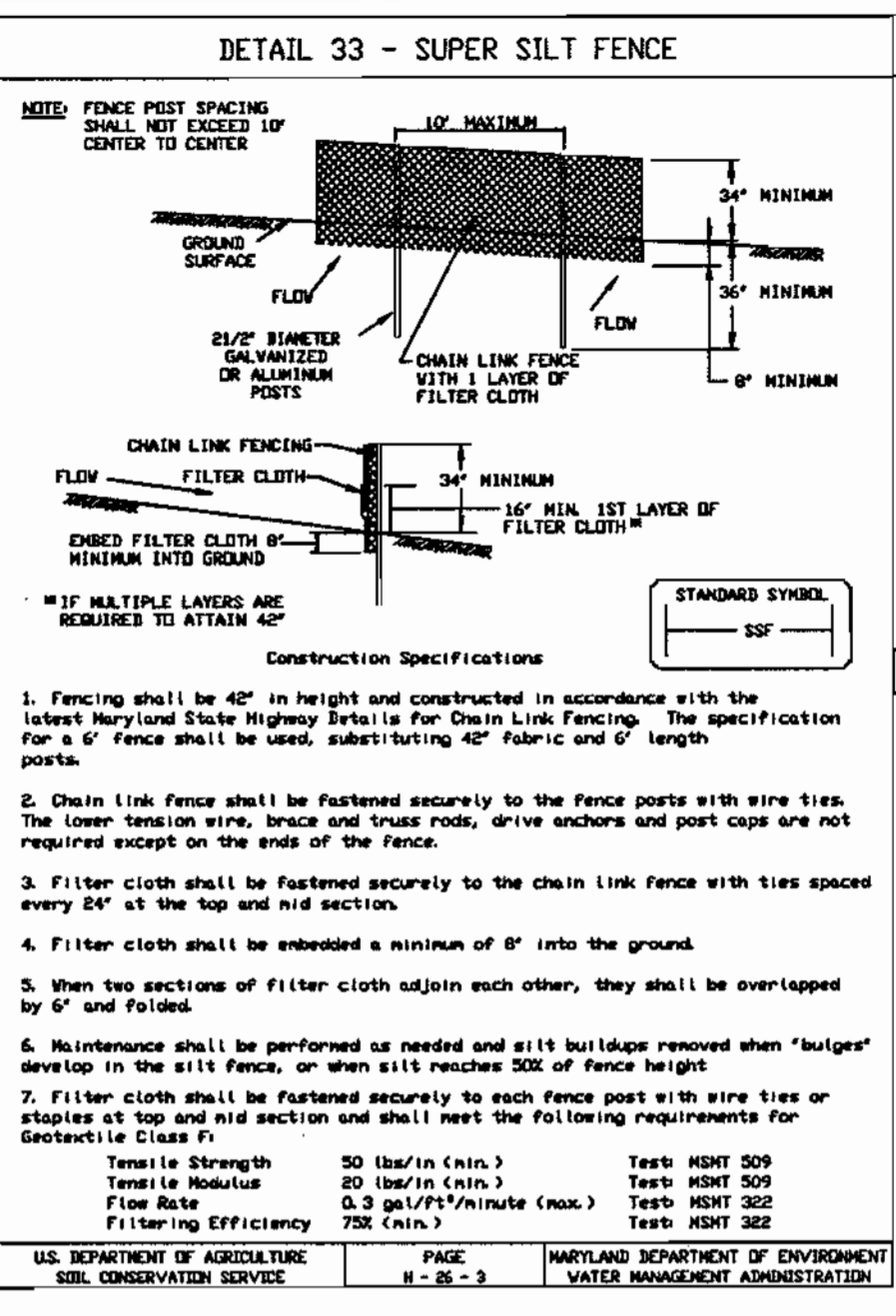
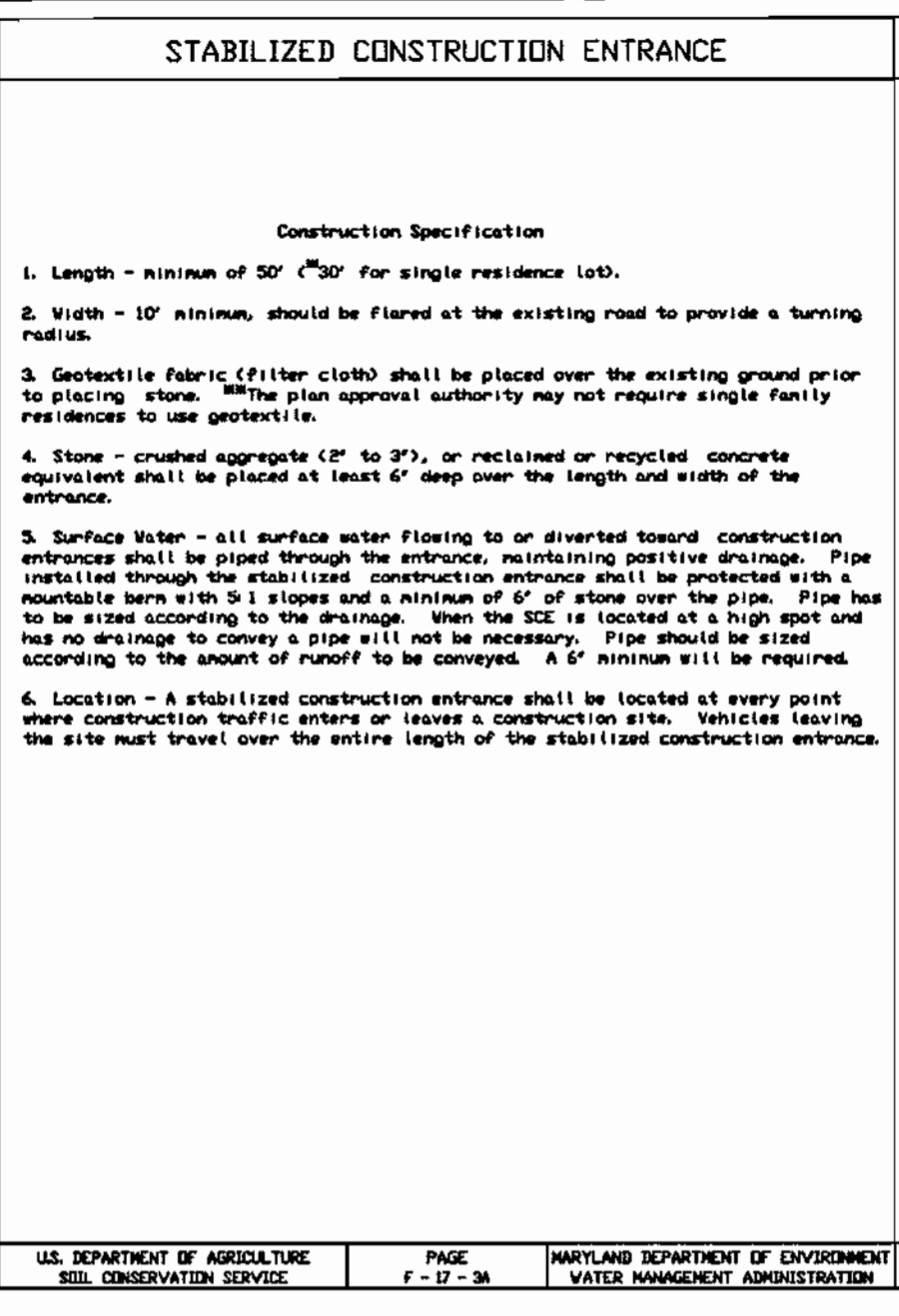
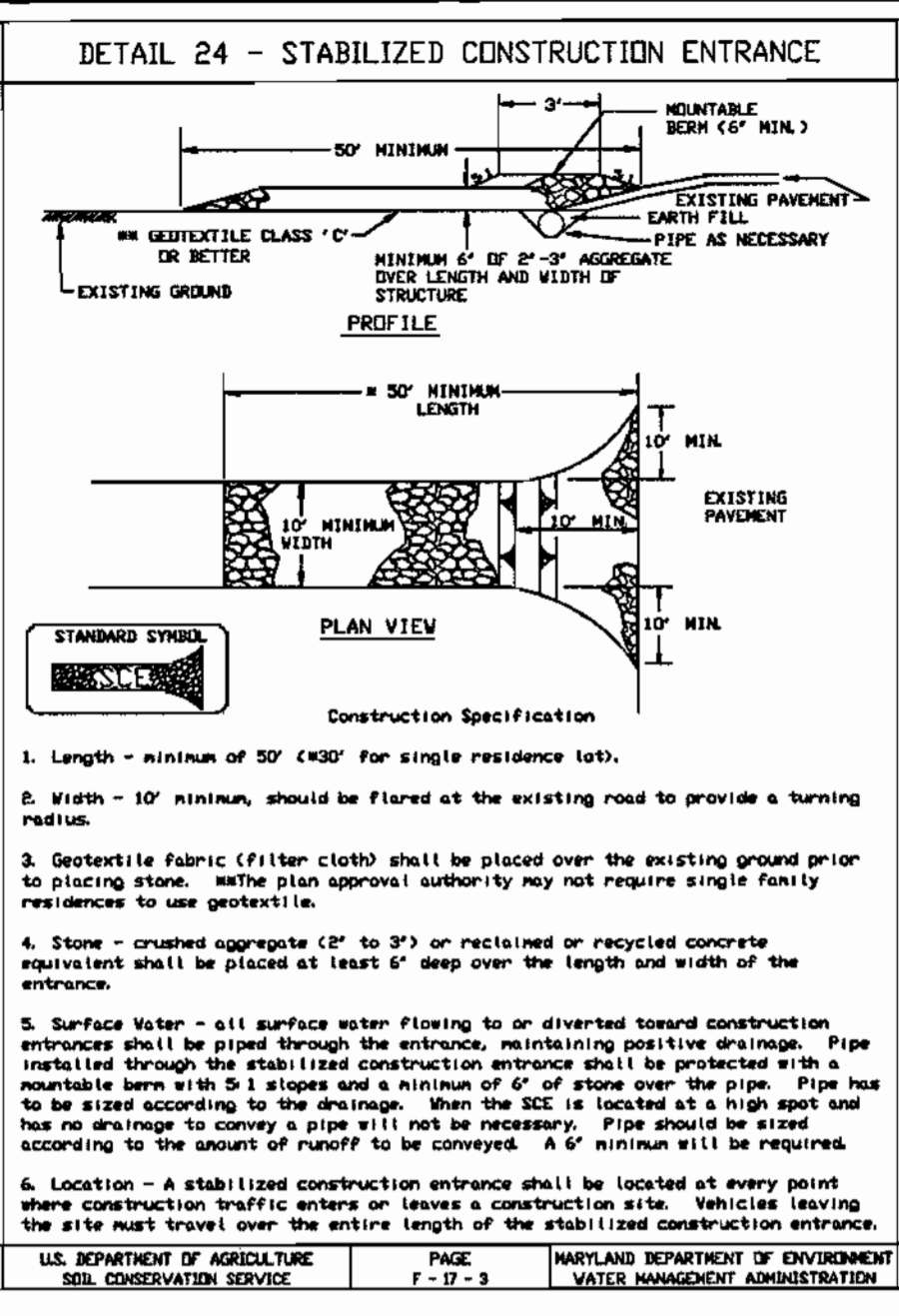
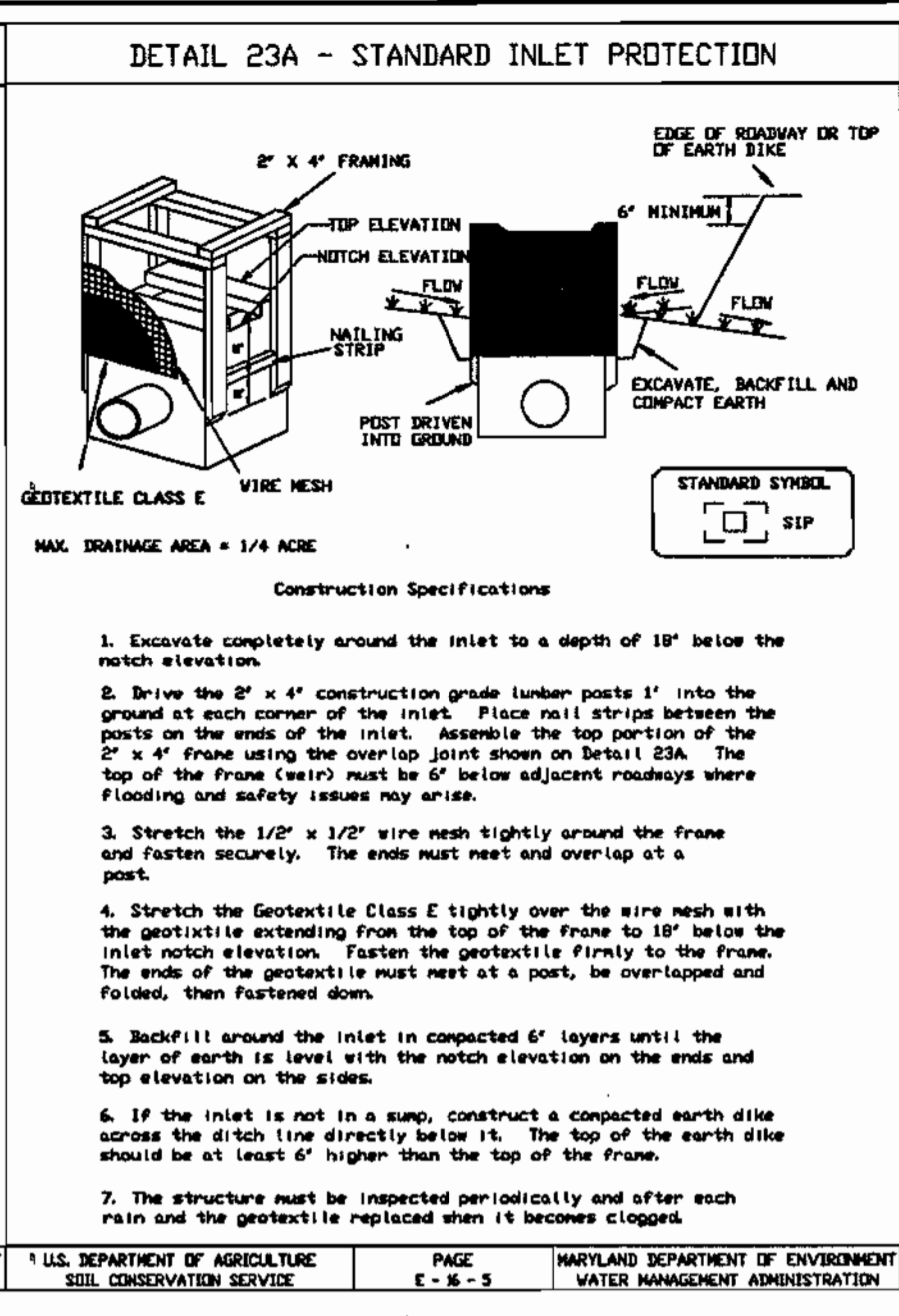
SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 Feet	1,000 Feet
10:1 to 5:1	100 Feet	750 Feet
5:1 to 3:1	60 Feet	500 Feet
3:1 to 2:1	40 Feet	250 Feet
2:1 and steeper	20 Feet	125 Feet

NOTE: In areas of less than 2% slope and sandy soils (USDA general classification system, Soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

Construction Specifications:
1. Fence posts shall be a minimum of 36\"/>



SUPER SILT FENCE

Design Criteria

Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited
10 - 20%	10:1 - 5:1	200 Feet
20 - 30%	5:1 - 3:1	100 Feet
30 - 50%	3:1 - 2:1	100 Feet
50% +	2:1 +	50 Feet

US. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 1 - 25 - 38 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS:

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION.

SITE PREPARATION:

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

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

B. WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS PER ACRE (100 LBS./1000 SQ. FT.) IN ALL SOILS 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.

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

SOD INSTALLATION:

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

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

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

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

SOD MAINTENANCE:

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

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

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

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

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION, PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF "HOWARD COUNTY DESIGN MANUAL", STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. C) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL SITE AREA - 49,953 S.F.
AREA DISTURBED - 67,363 S.F.
AREA TO BE ROOFED OR PAVED - 53,003 S.F.
AREA TO BE VEGETATIVELY STABILIZED - 14,322 S.F.
TOTAL CUT - 857 CU. YDS.
TOTAL FILL - 2,158 CU. YDS.
OFFSITE WASTE/BORROW LOCATION - BORROW 1,321 CU. YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADINGS. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
I. TOPSOIL SHALL BE LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDEHS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS PER ACRE (200-400 LBS./1000 SQ. FT.) PRIOR TO PLACEMENT OF TOPSOIL. LIME SHALL BE DISTURBED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
**III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.**
**IV. TOPSOIL APPLICATION
I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" - 8" HIGHER IN ELEVATION.
III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.**
V. THESE TOPSOIL SPECIFICATIONS HAVE BEEN EDITED FROM THE 1994 EROSION AND SEDIMENT CONTROL STANDARDS TO FIT THIS PROJECT. IT IS STILL THE INTENTION TO FOLLOW THE REFERENCED 1994 EROSION AND SEDIMENT CONTROL STANDARDS IN THEIR ENTIRETY.

TEMPORARY SEEDING NOTES

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

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

SOILS AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.)

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/3 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS./1000 SQ. FT.), FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70-90 LBS./1000 SQ. FT.) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALS./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GALS./1000 SQ. FT.) FOR ANCHORING.

PERMANENT SEEDING NOTES

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

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 AREAFORM FERTILIZER (9 LBS./1000 SQ. FT.)
2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALS./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREA, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GALS./1000 SQ. FT.) FOR ANCHORING.

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

MUD DUST CONTROL

Controlling dust blowing and movement on construction sites and roads.

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Temporary Methods:
1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
2. Vegetative Cover - See standards for temporary vegetative cover.
3. Tillage - To roughen surface and bring clove to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar tools are examples of equipment which may produce the desired effect.
4. Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
5. Barriers - Solid board fences, six foot, snow fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 100 feet after their height are effective in controlling soil blowing.
6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods:
1. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.
3. Stone - Cover surface with crushed stone or coarse gravel.

References:
1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS. II-30-1

ENGINEER'S CERTIFICATE
I, **ADAM J. VOLINTH**, REGISTERED PROFESSIONAL ENGINEER, CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.
DATE: 3/14/02

DEVELOPER'S CERTIFICATE
I, **ADAM J. VOLINTH**, REGISTERED PROFESSIONAL ENGINEER, CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
DATE: 3/4/02

REVIEWED FOR HOWARD SOD AND MEETS TECHNICAL REQUIREMENTS

Jim Murray, 3/25/02
USDA NATURAL RESOURCES CONSERVATION SERVICE

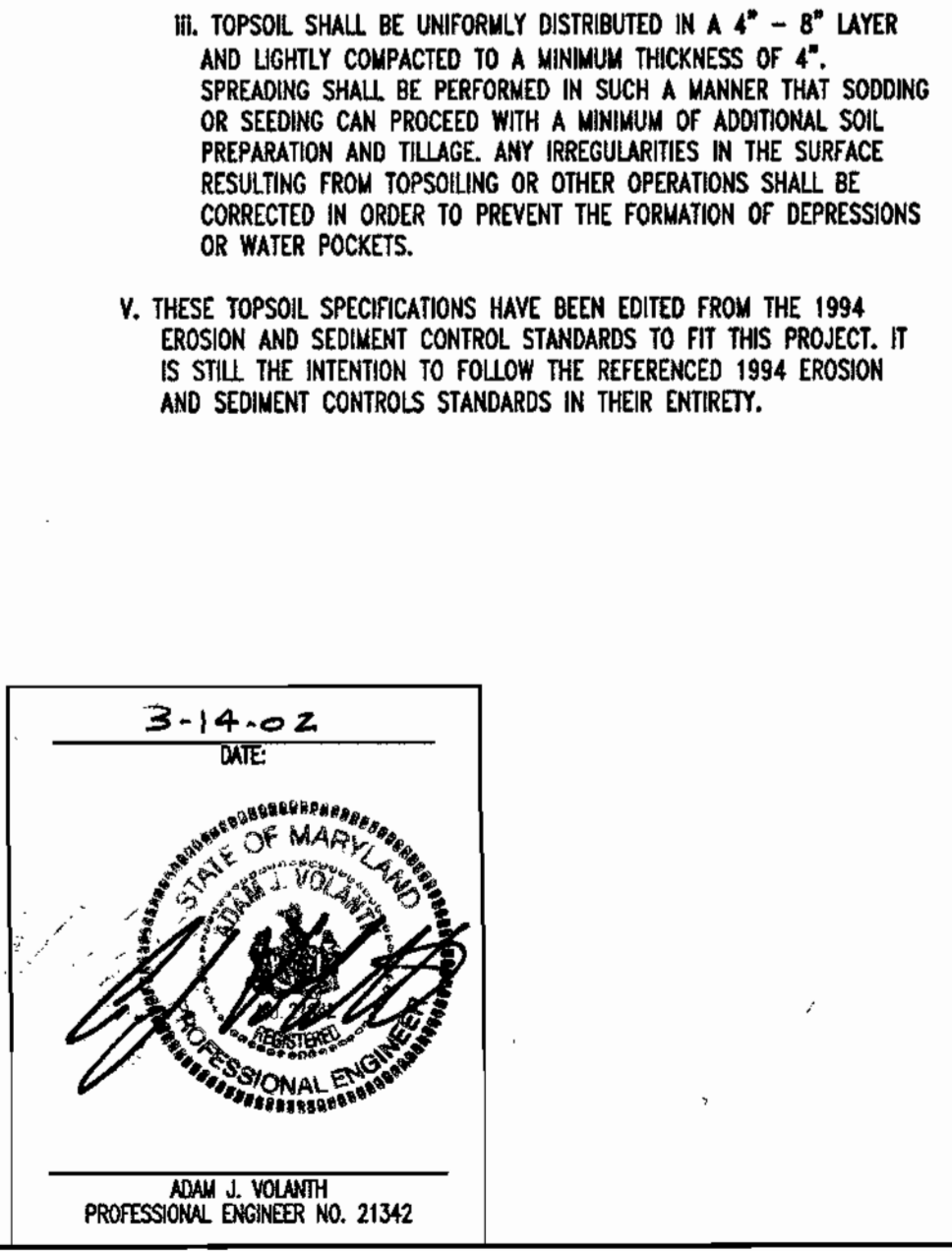
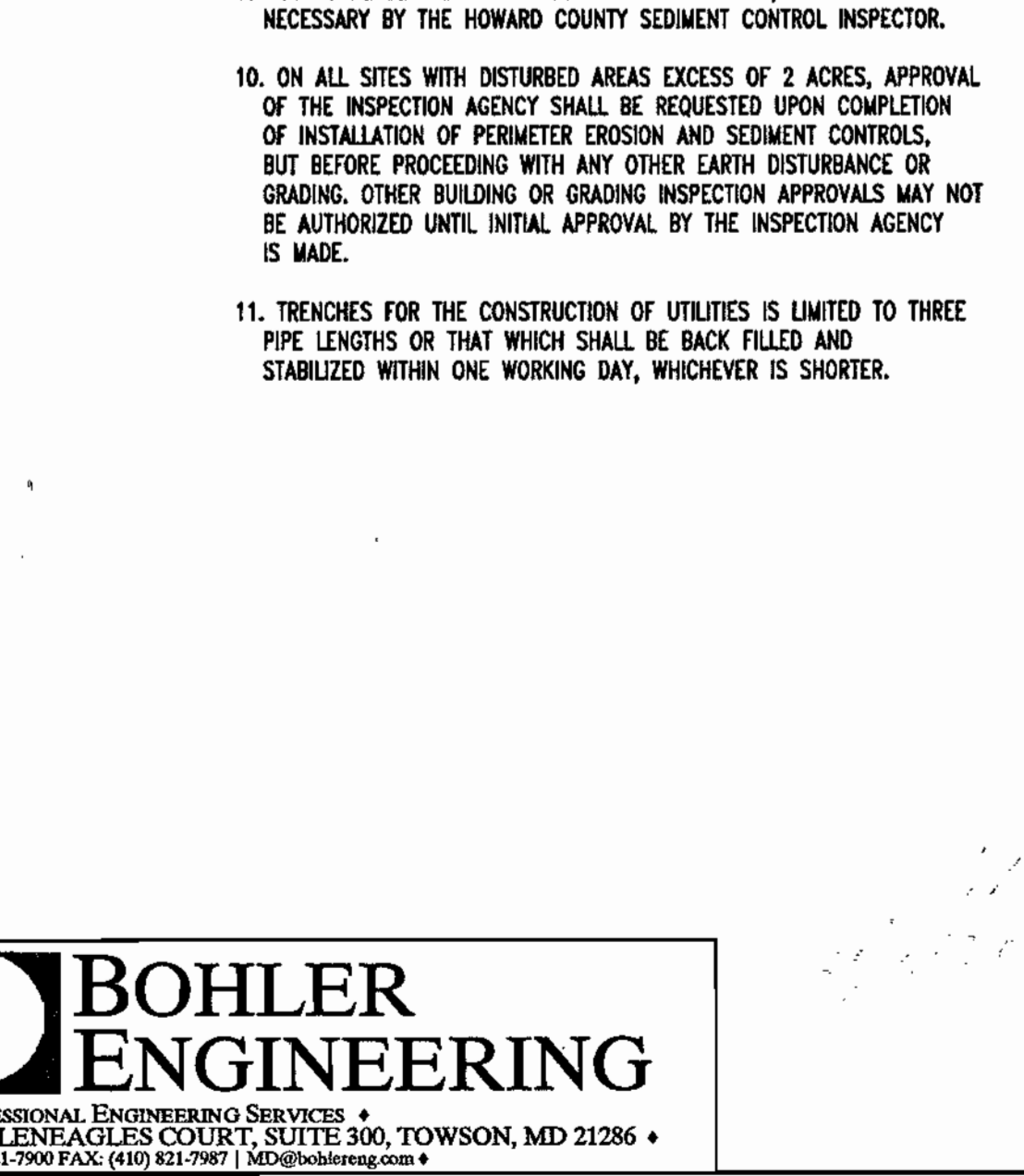
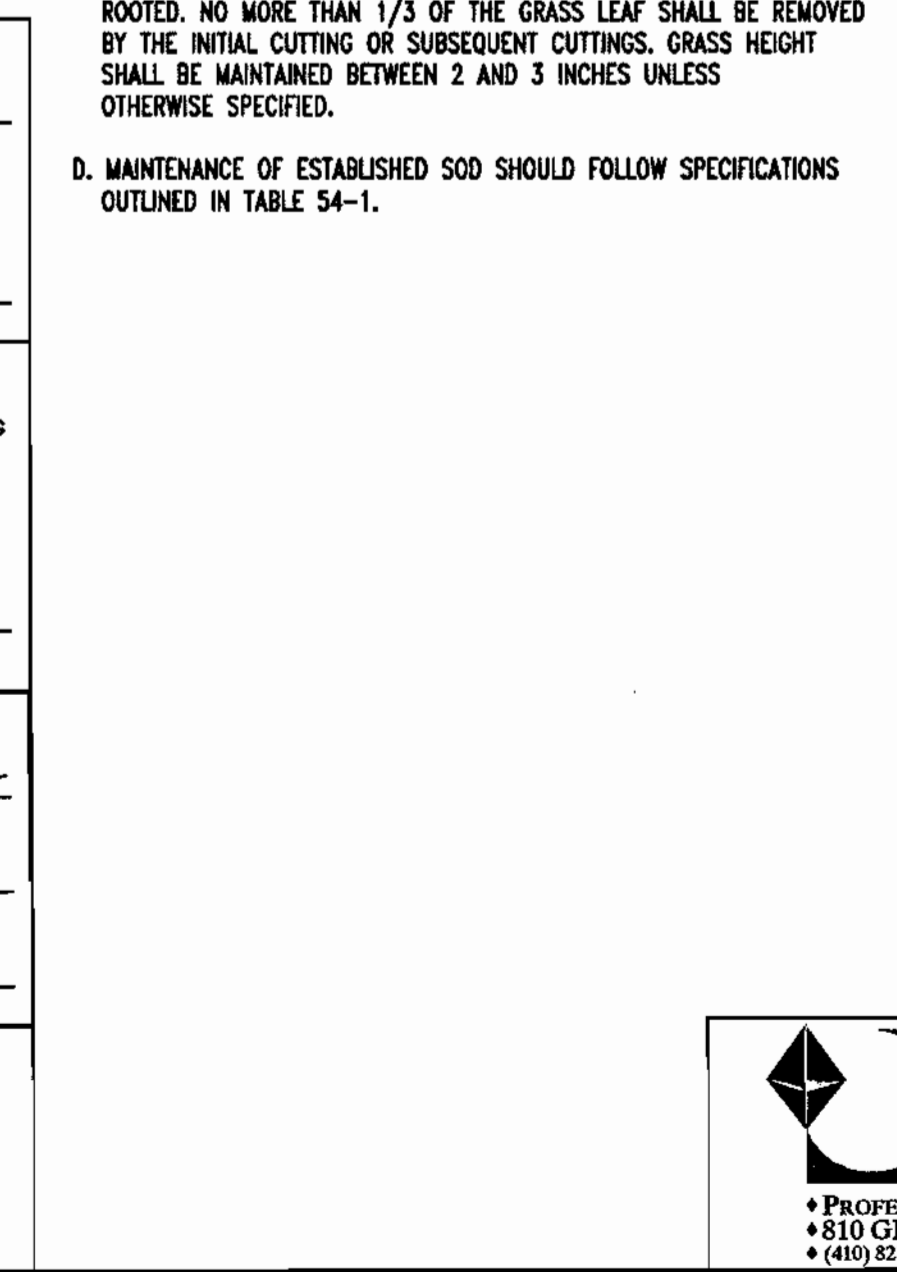
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John P. Roberts, 3/25/02
HOWARD SCD

DEVELOPER'S CERTIFICATE
I, **ADAM J. VOLINTH**, REGISTERED PROFESSIONAL ENGINEER, CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
DATE: 3/14/02

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief-Development Engineering Division, 3/26/02
Chief-Division & Land Development, 4/15/02
Director, 4/16/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Penny Boeneston, M.D., 4/3/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT



PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
N/A	N/A	33 & 93

PLAT OR L/F	BLOCK	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
467/414	12	B-2	34	5	6023.03

WATER CODE	SEWER CODE
111	UNAVAILABLE

ADDRESS CHART

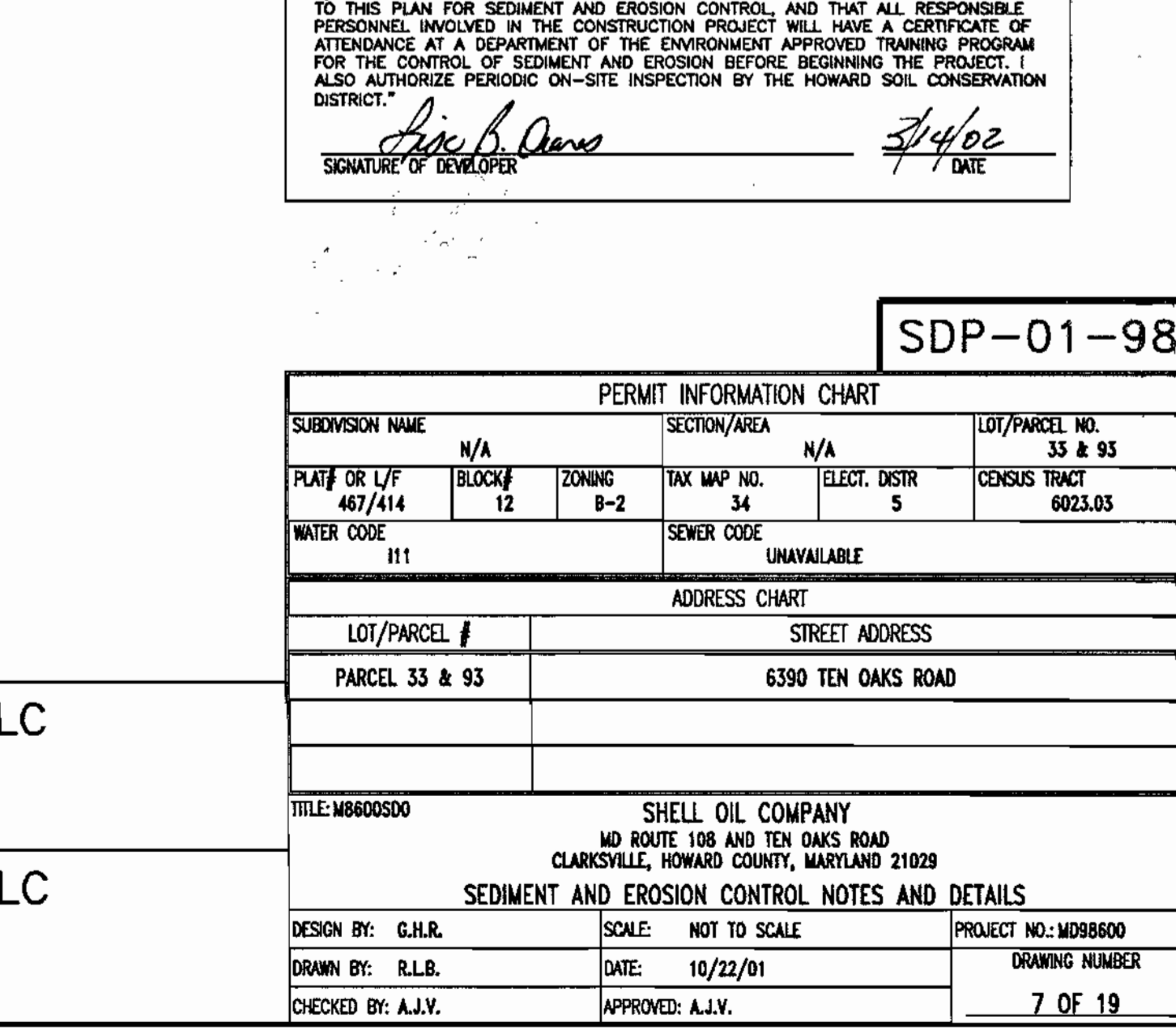
LOT/PARCEL #	STREET ADDRESS
PARCEL 33 & 93	6390 TEN OAKS ROAD

TITLE: M800500

DESIGN BY:	SCALE:	PROJECT NO.:
G.H.R.	NOT TO SCALE	M806800

DRAWN BY:	DATE:	DRAWING NUMBER:
R.L.B.	10/22/01	

CHECKED BY:	APPROVED:	DATE:
A.J.V.	A.J.V.	7 OF 19





TEN OAKS ROAD
60' ULTIMATE RIGHT-OF-WAY
(40' WIDE R.O.W.)
(COUNTY-OWNED ROADWAY)
(MAJOR COLLECTOR ROAD)

ZONED: B-2

LANDSCAPE SCHEDULE

Key	Qty	Botanical Name	Common Name	Size	Root	Spacing
TCG	3	Tilia cordata 'greenspire'	Greenspire Linden	2 1/2-3" cal.	B+B	AS SHOWN
TOT	5	Thuja occidentalis 'techny'	Techny Arborvitae	6-8'	B+B	4'
GTH	9	Gleditsia tricanthos inermis 'imperial'	Imperial Honeylocust	2 1/2-3" cal.	B+B	AS SHOWN
KL	15	Kalmia latifolia	Mountain Laurel	30-35"	B+B	4'
JCSG	66	Juniperus chinensis 'sea green'	Sea Green Juniper	24-30"	B+B	4'
JCS	1	Juniperus chinensis 'spartan'	Spartan Juniper	3-4'	B+B	AS SHOWN
JCOG	52	Juniperus chinensis 'old gold'	Old Gold Juniper	24-30"	#3 CAN	3'
BTRG	20	Berberis thunbergii 'rose glow'	Rose Glow Barberry	24-30"	B+B	4'
BTRC	145	Berberis thunbergii 'crimson pygmy'	Crimson Pygmy	24-30"	#2 CAN	3'
JHP	49	Juniperus horizontalis plumosa	Andorra Juniper	24-30"	#3 CAN	3'
PMM	5	Pinus mugo mugo	Mugo Pine	24-30"	#3 CAN	3'
CSR	18	Coloneaster salicifolia repens	Willow Leaf Coloneaster	24-30"	#2 CAN	3'
MSG	3	Miscanthus sinensis gracillimus	Dwarf Maiden Grass	Cont.	-	2'
ICH	5	Ilex crenata helleri	Helleri Holly	18-24"	#3 CAN	3'
PSK	2	Prunus serrulata 'kwanzon'	Kwanzon cherry	2 1/2" cal.	B+B	AS SHOWN
JHW	4	Juniperus horizontalis 'wilsoni'	Wilson's Blue Ring Juniper	12-15"	#2 CAN	AS SHOWN
PJ	3	Pieris japonica	Japanese Andromeda	30-35"	B+B	4'
PIAB	9	Picea abies	Norway Spruce	6'-8'	B+B	AS SHOWN

FOREST CONSERVATION WORKSHEET
VERSION 1.0

NET TRACT AREA:

A. Total tract area..... 0.57
 B. Area within 100 year floodplain..... 0.00
 C. Area to remain in agricultural production..... 0.00
 D. Net tract area..... 0.57

The net tract area for this plan is based on the increase in the LOD from the previous site plan (SDP-74-82) to the LOD for this plan.

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)

ARA	MDR	IDA	HDR	MPD	CIA
0	0	0	0	0	1

E. Afforestation Threshold..... 15% x D = 0.10
 F. Conservation Threshold..... 15% x D = 0.10

EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain)..... 0.00
 H. Area of forest above afforestation threshold..... 0.00
 I. Area of forest above conservation threshold..... 0.00

BREAK-EVEN POINT:

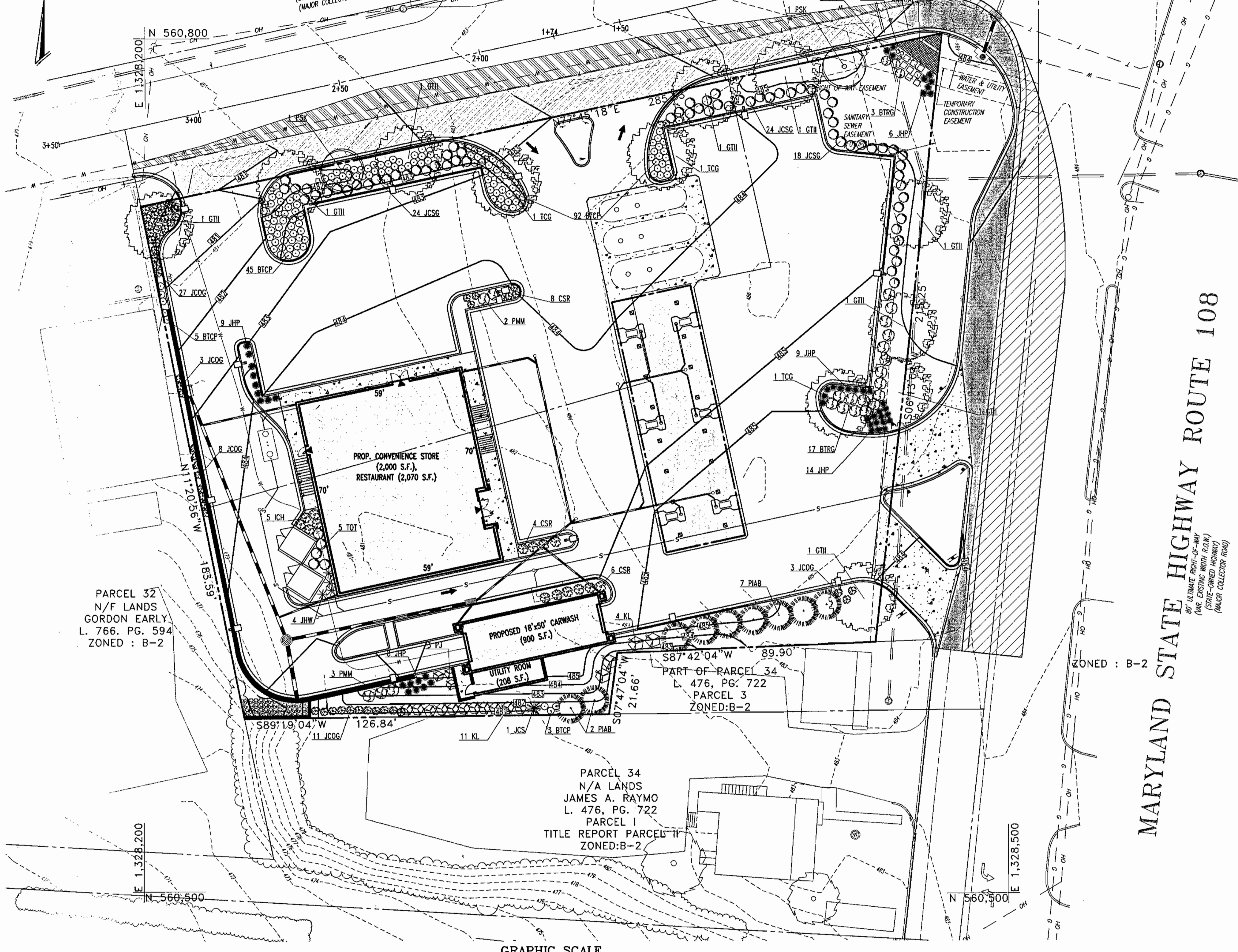
J. Forest retention above threshold with no mitigation..... 0.00
 K. Clearing permitted without mitigation..... 0.00

PROPOSED FOREST CLEARING:

L. Total area of forest to be cleared..... 0.00
 M. Total area of forest to be retained..... 0.00

PLANTING REQUIREMENTS:

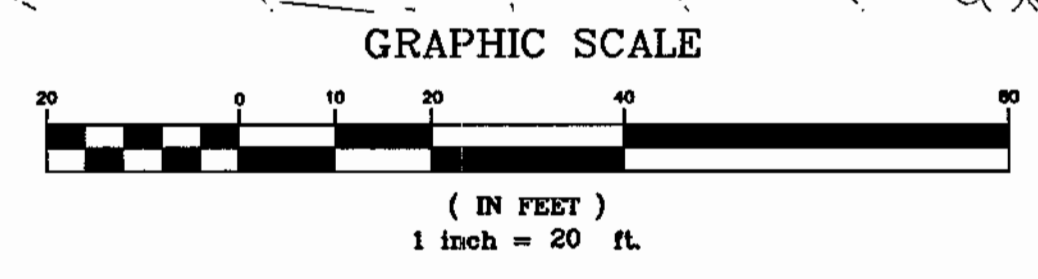
N. Reforestation for clearing above conservation threshold..... 0.00
 P. Reforestation for clearing below conservation threshold..... 0.00
 Q. Credit for retention above conservation threshold..... 0.00
 R. Total reforestation required..... 0.00
 S. Total afforestation required..... 0.10
 T. Total reforestation and afforestation required..... 0.10



PARCEL 32
N/F LANDS
GORDON EARLY
L. 766, PG. 594
ZONED: B-2

PARCEL 34
N/A LANDS
JAMES A. RAYMO
L. 476, PG. 722
PARCEL 1
TITLE REPORT PARCEL 11
ZONED: B-2

MARYLAND STATE HIGHWAY ROUTE 108
80' ULTIMATE RIGHT-OF-WAY
(40' EXISTING WIDE R.O.W.)
(STATE-OWNED HIGHWAY)
(MAJOR COLLECTOR ROAD)



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/20/02
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 [Signature] 4/15/02
 CHIEF-DIVISION & LAND DEVELOPMENT
 [Signature] 4/15/02
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 Penny Brewster M.D. 4/3/02
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 * PROFESSIONAL ENGINEERING SERVICES *
 #810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 # (410) 821-7900 FAX: (410) 821-7997 | MD@bohlereng.com

3-14-02
 DATE:
 [Professional Engineer Seal]
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
 [Miss Utility Logo]
 BEFORE YOU DIG CALL
 1-800-327-7777
 PROTECT YOURSELF, GIVE THREE
 WORKING DAYS NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY
 COMPONENTS FOR CONSTRUCTION SAFETY. ALL
 CONSTRUCTION MUST BE DONE IN ACCORDANCE
 WITH THE OCCUPATIONAL SAFETY AND HEALTH
 ACT OF 1970 AND ALL APPLICABLE REGULATIONS.
 THE CONTRACTOR TO CALL MISS UTILITY
 TO HAVE ALL EXISTING UTILITIES MARKED
 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

OWNER: [Signature] 3/14/02
 DATE

PREPARED BY: [Signature] 3/14/02
 DATE

SDP-01-98

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
N/A	N/A	33 & 93

PLAT OR L/F	BLOCK	ZONING	TAX MAP NO.	ELECT. DISTR.	CENSUS TRACT
487/414	12	B-2	34	5	6023.03

WATER CODE	SEWER CODE
111	UNAVAILABLE

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL 33 & 93	6390 TEN OAKS ROAD

TITLE: M0000550 SHELL OIL COMPANY
 MD ROUTE 108 AND TEN OAKS ROAD
 CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029
 SITE LANDSCAPE AND FOREST CONSERVATION PLAN

DESIGN BY:	SCALE:	PROJECT NO.:
G.H.R.	1"=20'	M098600

DRAWN BY:	DATE:	DRAWING NUMBER
R.L.B.	10/22/01	

CHECKED BY:	APPROVED:	DATE:
A.J.V.	A.J.V.	

8 OF 19

PLANTING NOTES:

- PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
- PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.
- CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
- INsofar AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD WILL BE REJECTED.
- QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI 260 (REV. 1980) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. OR HOWARD COUNTY LANDSCAPE MANUAL WHICHEVER IS GREATER.
- ALL PLANTS SHALL BE PLANTED IN AMENDED TOP SOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.
- PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH "WILT-PRUF" OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.
- NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
- SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT.
- ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES WILL NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED.
- EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE INSTALLED AS INDICATED. THE LANDSCAPE CONTRACTOR SHALL REMOVE STAKING, GUYING & TREE WRAP AT THE END OF THE ONE YEAR MAINTENANCE & GUARANTEE PERIOD.
- THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND AS INDICATED.
- ALL PLANTING BEDS SHALL BE MULCHED WITH 3" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.
- NEW PLANTING AREAS AND SOIL SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE AS SHOWN ON THE APPROVED LANDSCAPE PLAN MUST BE INSTALLED, INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT. THE TOWNSHIP ENGINEER AND LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS: THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVERS AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVAL BY THE PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

TYPE	DATES
PLANTS	3/15 TO 12/15
LAWN	3/15 TO 6/15 9/15 TO 12/1

FURTHERMORE, THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH PLANTING THESE TREES IN THIS SEASON.

ACER RUBRUM '1'	POPULUS VARIETIES
BETULA VARIETIES	PRUNUS VARIETIES
CARPINUS VARIETIES	PYRUS VARIETIES
CRATAEGUS VARIETIES	QUERCUS VARIETIES
KOELERIPER VARIETIES	SALIX WEEPING VARIETIES
LIQUID AMBER STYRACIFLUA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA VARIETIES
PLATANUS ACERIFOLIA	

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE THE WRITTEN APPROVAL OF THE ENGINEER OR LANDSCAPE ARCHITECT, PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SOODING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. THE PLANTING ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.
- ALL DISTURBED AREAS TO BE TREATED WITH 4" TOP SOIL & SEEDING IN ACCORDANCE WITH PERMANENT STABILIZATION METHODS INDICATED ON SOIL EROSION SEDIMENT CONTROL SHEET.

LANDSCAPE MAINTENANCE MANAGEMENT PROGRAM:

- GENERAL:
 - ALL PLANTING AREAS (INCLUDING LAWNS, BUFFERS, PARKING LOTS) SHALL BE PERIODICALLY INSPECTED A MINIMUM OF ONCE PER MONTH; EVERY 2 WEEKS DURING THE GROWING SEASON OR AFTER EACH MOWING SESSION. A GENERAL FALL CLEAN-UP SHALL BE SCHEDULED EACH YEAR.
 - REMOVE ALL UNDESIRABLE LITTER, DEBRIS, AND WEEDS.
 - MAINTAIN A MINIMUM OF A 2 INCH DEPTH OF ORGANIC HARDWOOD MULCH OR EQUIVALENT ON ALL PLANTING BEDS. ADJACENT LAWN AREAS SHOULD BE EDGED TO MAINTAIN A NEAT, DISTINCT BORDER.
- IRRIGATION: (IF APPLICABLE)
 - AUTOMATIC SPRINKLERS SHOULD BE CLEANED OUT AND TURNED OFF IN THE FALL PRIOR TO THE FIRST FROST, AND TESTED AND TURNED ON IN SPRING.
 - EVALUATE REQUIREMENTS OF IRRIGATION SYSTEM AND MODIFY AS NECESSARY.
 WATER REQUIREMENTS:
 NEW TURF - KEEP MOIST UNTIL ALL SEED GERMINATES AND BECOMES AN ESTABLISHED STAND OF TURF.
 EXISTING TURF - DURING DRY PERIODS, WATER TWICE A WEEK FOR 20 MINUTES AT A TIME, OR SET IRRIGATION SYSTEM FOR COVERAGE OF 1"-2" OF WATER PER WEEK.
- SEASONAL FLOWERS:
 - ANNUAL FLOWER BEDS SHALL BE PERIODICALLY MULCHED AND THE SOIL AMENDED ANNUALLY. NEW PLANTINGS SHALL BE PROVIDED IN MAY OF EACH YEAR. DURING GROWING SEASON, ALL BEDS SHALL RECEIVE PERIODIC INSPECTION, (AS STATED IN NOTE #1) IRRIGATION, AND WEEDING TO MAINTAIN A NEAT APPEARANCE.
- TURF:
 - LAWN AREAS SHALL NOT EXCEED A HEIGHT OF 4 INCHES. APPROXIMATELY 12 TO 15 MOWINGS PER YEAR WILL BE REQUIRED.
 - FERTILIZER AND SOIL AMENDMENTS SHOULD BE ADDED AS NECESSARY AND/OR ON A SEASONAL BASIS. FERTILIZER IS OPTIMALLY APPLIED TO LAWN AND TURF AREAS THREE TIMES PER SEASON. TIMING, FREQUENCY AND RATE OF APPLICATION SHOULD BE ADJUSTED ACCORDING TO WEATHER AND HORTICULTURAL AND SOIL TEST CONDITIONS FOR EACH SPECIFIC SITE. FERTILIZER SHOULD BE APPLIED BY ACCEPTED METHODS ONLY. SAFETY SHOULD ALWAYS BE OF PRIME CONSIDERATION. CARE SHOULD BE TAKEN NOT TO APPLY FERTILIZER WHEN GROUND IS WET, UNDER EXTREME STRESS, OR DURING WINDY CONDITIONS.
 - SOIL AMENDMENTS SUCH AS LIME, GYPSUM, OR PEAT MOSS MAY HAVE TO BE ADDED TO THE SOILS OF LAWNS, TURF OR PLANTING AREAS PERIODICALLY. THE NEED FOR SUCH SOIL AMENDMENTS SHOULD BE ANALYZED DURING THE PERIODIC INSPECTIONS AND IN CONJUNCTION WITH A SOIL TEST.
 - SOIL AMENDMENTS SHOULD BE APPLIED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS OR BASED UPON SOIL TEST RESULTS.
 - APPLY A 3-1-2 (21-7-14, 10-4-6, OR 24-4-8) 50% ORGANIC FERTILIZER TWICE A YEAR BETWEEN MARCH 15 TO APRIL 15 AND SEPTEMBER 1 TO OCTOBER 1. IF NECESSARY TWO ADDITIONAL APPLICATIONS MAY BE MADE IN MAY AND NOVEMBER.
 - APPLY LIME AND OTHER SOIL AMENDMENTS ONCE A YEAR IN MARCH.
 DO NOT APPLY FERTILIZER OR SOIL AMENDMENTS WHILE TURF IS WET, UNDER EXTREME STRESS, WHEN CHILDREN ARE PRESENT, OR IN WINDY CONDITIONS.
- PRUNING:
 - REMOVAL OF DEAD, DISEASED, INSECT INFESTED OR WEAK WOOD SHALL TAKE PLACE IN DORMANT SEASON, OR AFTER FLOWERING. EXCESSIVE SHOOTS AND SUCKERS SHALL BE REMOVED.
 - SHRUB MATERIAL USED AS A SCREEN SHOULD BE PRUNED AS A MASS TO ENHANCE THEIR NATURAL FORM. HEDGES SHOULD BE PRUNED TO MAINTAIN A TRAPEZOIDAL FORM.
 - ROOT PRUNING OF TREES ADJACENT TO CURBS OR SIDEWALKS SHOULD OCCUR DURING PERIODIC INSPECTION WITH KNOWLEDGE OF MOST RECENT PRUNING. NO MORE THAN 1/3 OF ROOT SYSTEM SHOULD BE PRUNED DURING A YEAR.
- INSECT AND DISEASE CONTROL:
 - THE CONTROL OF INSECTS AND DISEASE ASSOCIATED WITH ALL PLANTING AREAS SHOULD ALWAYS BE A MAINTENANCE PRIORITY. ALL PLANTINGS, INCLUDING EXISTING MATURE TREES, SHOULD BE PERIODICALLY INSPECTED FOR INSECT OR DISEASE INFESTATION. METHODS UTILIZED TO CONTROL INSECT AND DISEASE MAY RANGE FROM SPRAYING AND PRUNING TO PLANT REMOVAL. WHATEVER METHOD IS UTILIZED, SAFETY AND CONTROL SHOULD ALWAYS BE OF PRIME CONCERN. CERTIFIED AND TRAINED PERSONNEL SHOULD ALWAYS PERFORM THIS TASK.
- RENOVATION:
 - RENOVATION INCLUDES THE RESEEDING OR REPLANTING OF LANDSCAPE AREAS DAMAGED, DESTROYED OR FAILING DUE TO INSECTS, DISEASE, WEATHER OR PHYSICAL DAMAGE.
 A. LAWN:
 ALL AREAS WHERE SOIL HAS BEEN EXPOSED SHOULD BE RENOVATED DURING THE NEXT PLANTING SEASON. PROPER HORTICULTURAL AND SOIL EROSION PREVENTION METHODS SHOULD BE UTILIZED. IF SOIL EROSION HAS OCCURRED, THE AREA SHOULD BE REPAIRED. A SEED MIXTURE COMPATIBLE TO EXISTING PLANTINGS AND CONDITIONS SHOULD ALWAYS BE UTILIZED.
 B. PLANTINGS:
 ALL PLANTINGS WHICH ARE DAMAGED OR DESTROYED SHOULD BE REPLACED DURING THE NEXT PLANTING SEASON. A FAILING, DAMAGED OR DESTROYED LANDSCAPE SCREEN OR BUFFER MUST BE RENOVATED OR REPLACED WITHIN A REASONABLE AMOUNT OF TIME BUT NOT TO EXCEED THE SUBSEQUENT GROWING SEASON.
- SITE AMENITIES:
 - BENCHES, PATHS, BICYCLE RACKS, TRASH RECEPTACLES AND SIGNS SHOULD BE INSPECTED AT LEAST TWICE A YEAR, MARCH AND AUGUST, TO DETERMINE THEIR CONDITION. ANY DAMAGED, WORN OR UNSAFE CONDITION SHOULD BE RECTIFIED IMMEDIATELY.
- PAVED SURFACES:
 - ALL PAVED SURFACES, CONCRETE SIDEWALKS, ASPHALT PAVEMENT AND DECORATIVE PAVEMENT MUST BE INSPECTED ON A REGULAR BASIS, A MINIMUM OF ONCE PER MONTH.
 ANY TRASH, STAINS, OR OBSTRUCTIONS MUST BE REMOVED IMMEDIATELY. PAVEMENTS SHOULD BE INSPECTED FOR DAMAGE, CRACKS, POT HOLES, AND RETURNED TO THEIR ORIGINAL CONDITION. SNOW SHOULD BE REMOVED DURING AND FOLLOWING EVERY STORM. SIDEWALKS AND PARKING AREAS MUST BE KEPT CLEAR OF ICE AND SNOW DURING BUSINESS HOURS.

SCHEDULE A PERIMETER LANDSCAPE EDGE

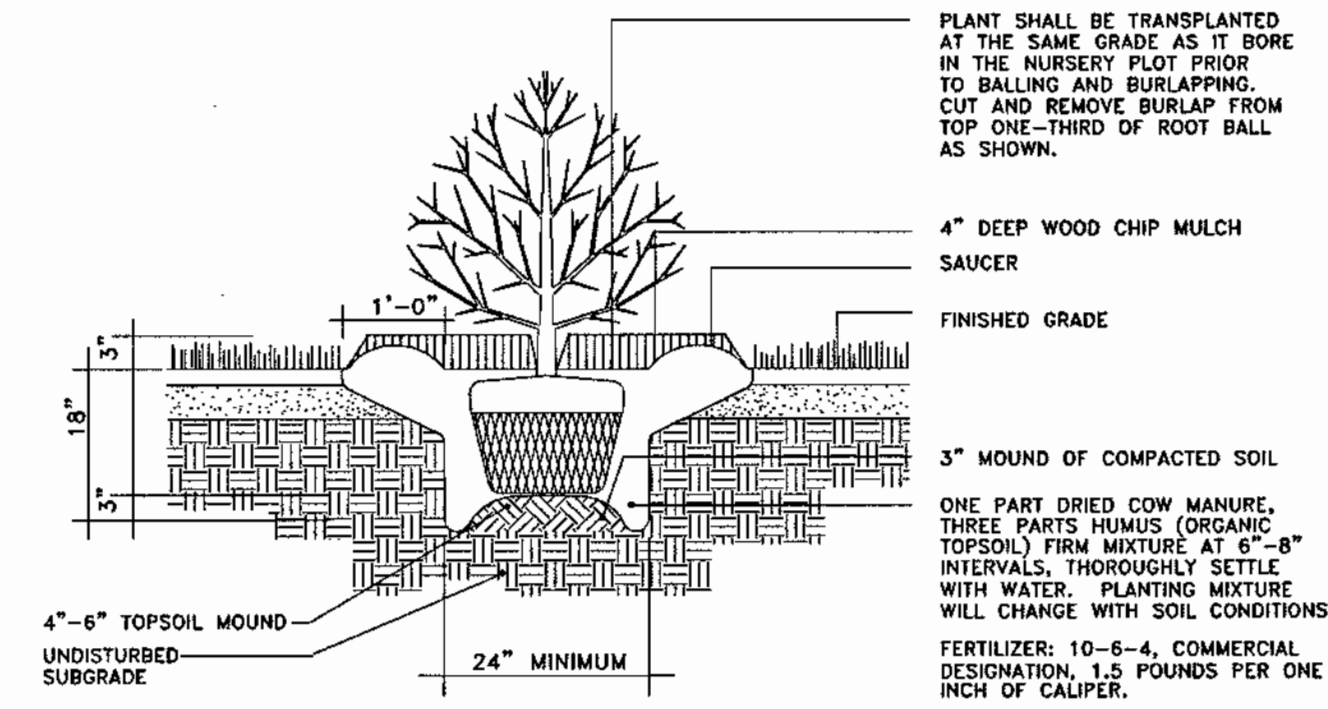
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	405'	453'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	10	8
EVERGREEN TREES	-	-
SHRUBS	100	-
NUMBER OF PLANTS PROVIDED		
SHADE TREES	9	-
EVERGREEN TREES	-	9**
OTHER TREES (2:1 SUBSTITUTION)	2	-
SHRUBS (10:1 SUBSTITUTION)	120	46*
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		

* 1. IN LIEU OF THE REQUIRED SHADE TREE (2) TWO KWANZAN CHERRY TREES HAVE BEEN SUBSTITUTED.

**2. IN LIEU OF THE (8) REQUIRED SHADE TREES, (9) EVERGREEN TREES AND (46) SHRUBS HAVE BEEN SUBSTITUTED.

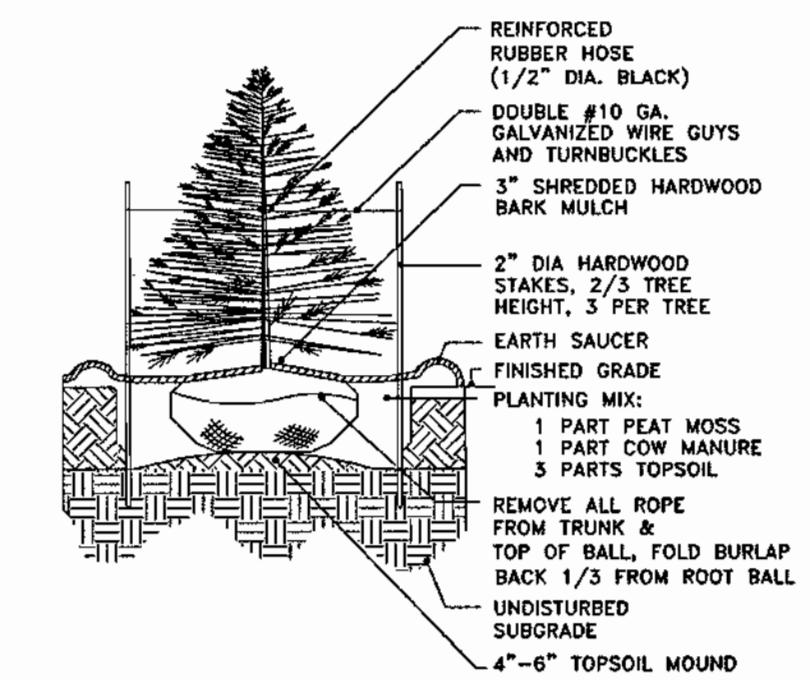
SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	36
NUMBER OF TREES REQUIRED	2
NUMBER OF TREES PROVIDED	3
SHADE TREES	-
OTHER TREES (2:1 SUBSTITUTION)	-



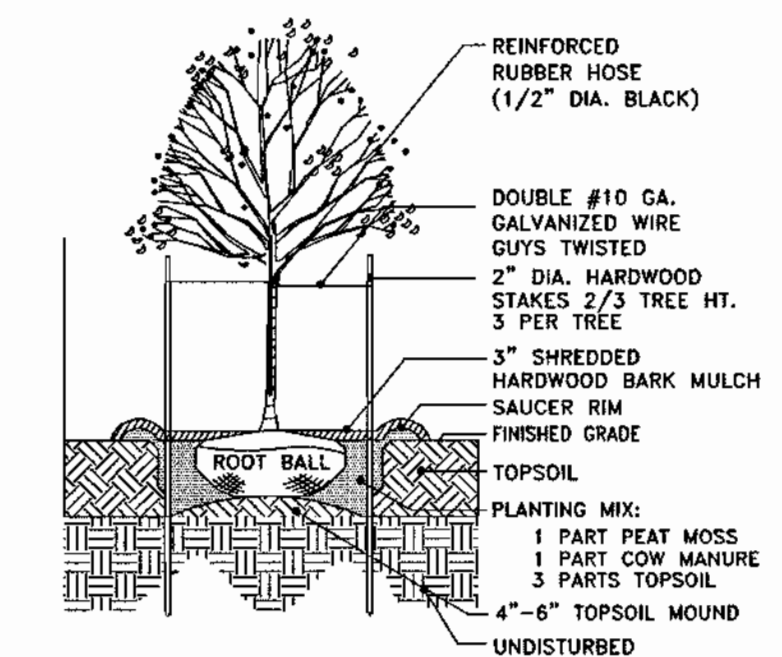
DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE

- NOTES:
 1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.



EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

- NOTES:
 1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM ROOT BALL.
 3. PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
 NAME: *Frederic Davis* DATE: *3/14/02*

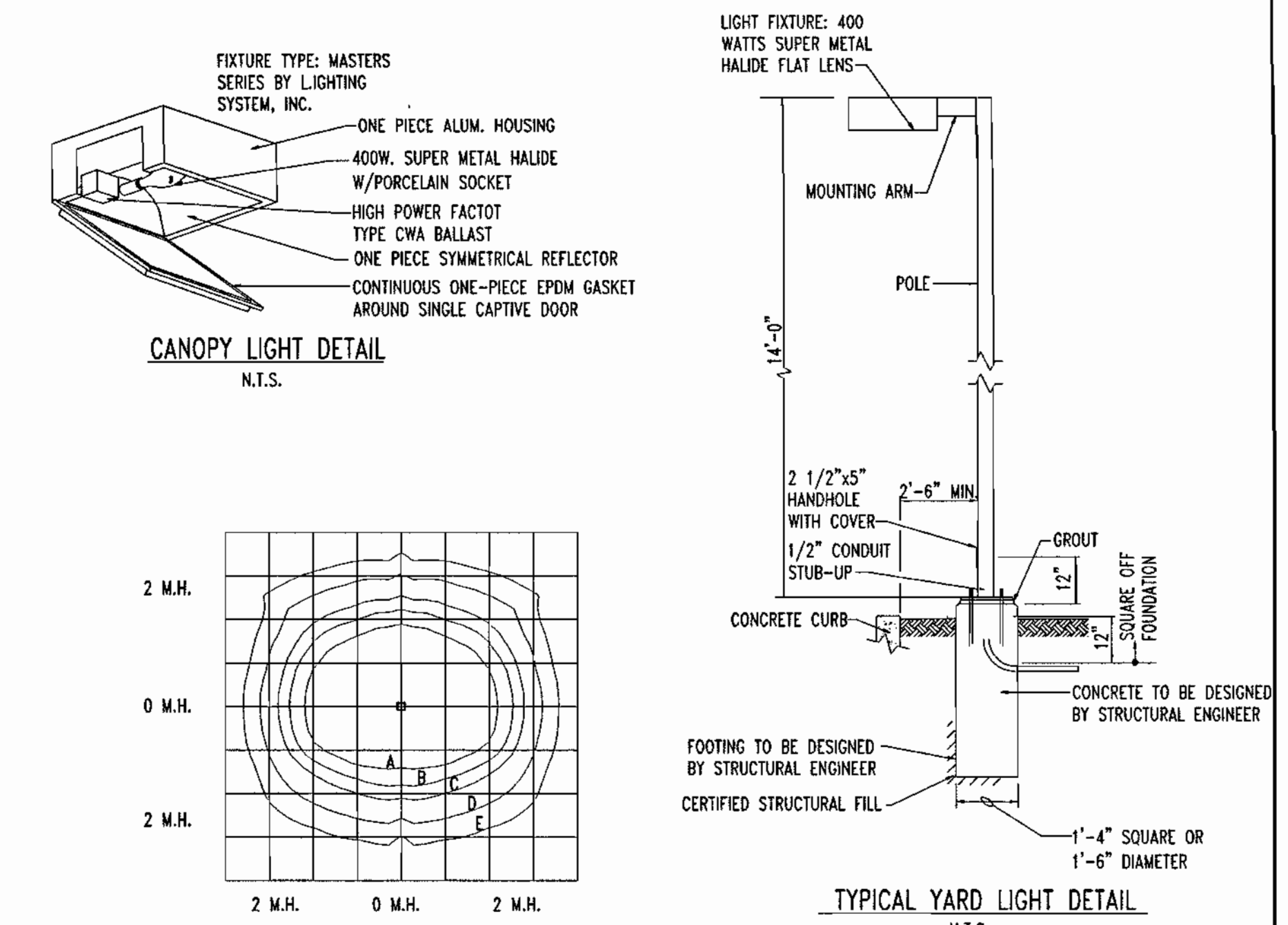
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 3/26/02
 CHIEF-DIVISION OF LAND DEVELOPMENT: *[Signature]* 4/15/02
 DIRECTOR: *[Signature]* 3/21/02
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS:
 COUNTY HEALTH OFFICER: *[Signature]* 4/3/02
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 8101 GLENEAGLES COLLETT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 MD@bohlereng.com

3-14-02
 DATE:
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

OWNER: **MOTIVA ENTERPRISES, LLC**
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029
 DEVELOPER: **MOTIVA ENTERPRISES, LLC**
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

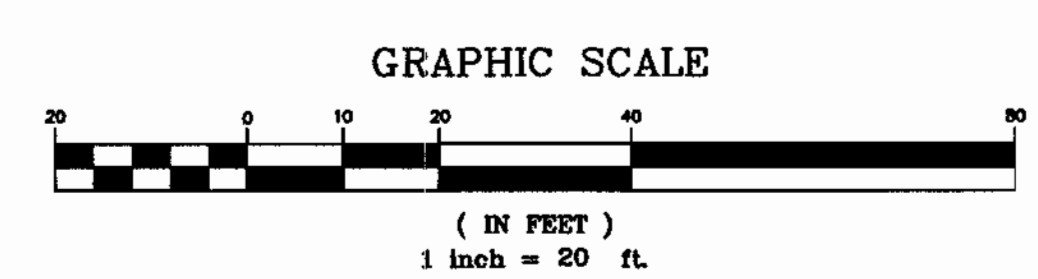
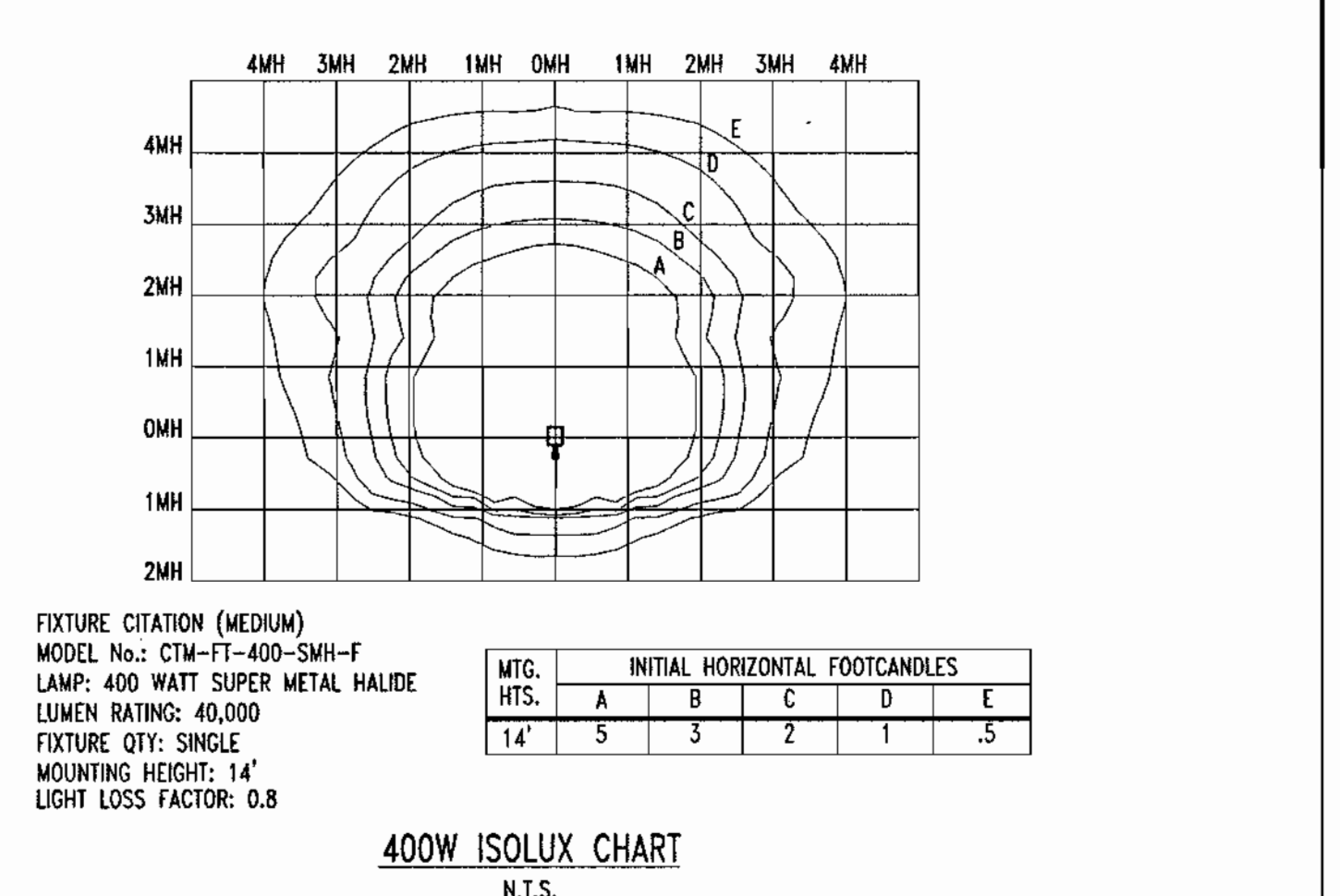
PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	N/A
LOT/PARCEL NO.	33 & 93	TAX MAP NO.	34
PLAT OR L/F	467/414	ZONING	B-2
WATER CODE	111	ELECT. DIST.	5
		SEWER CODE	UNAVAILABLE
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 93	6390 TEN OAKS ROAD		
TITLE: M8600SD0 SHELL OIL COMPANY			
MD ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
SITE LANDSCAPE NOTES AND DETAILS			
DESIGN BY: G.H.R.	SCALE: NOT TO SCALE	PROJECT NO: M898600	
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.		9 OF 19



LENS-CLEAR FLAT GLASS LAMP-400W CLR SUPER METAL HALIDE
NO. OF LUMINAIRES: 1
FIXTURE SERIES: MASTERS
CATALOG NO.: MA-S-400-SMH
LUMEN RATING: 40,000
MOUNTING HEIGHT: 16'
LIGHT LOSS FACTOR: 0.8

MTG. HTS.	INITIAL HORIZONTAL FOOTCANDLES				
	A	B	C	D	E
16'	5	3	2	1	.5

CANOPY LIGHT 400W ISOLUX CHART
N.T.S.



3-14-02
DATE

ADAM J. VOLANT
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY

BEFORE YOU DIG CALL 1-800-387-7777 PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

THIS DRAWING DOES NOT INDICATE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPROPRIATE.

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

DEVELOPER: MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION
Cindy Harrod 4/15/02
CHIEF-DIVISION OF LAND DEVELOPMENT
Darwin J. Cayle 4/12/02
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Penny Borenstein, M.D. 4/3/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

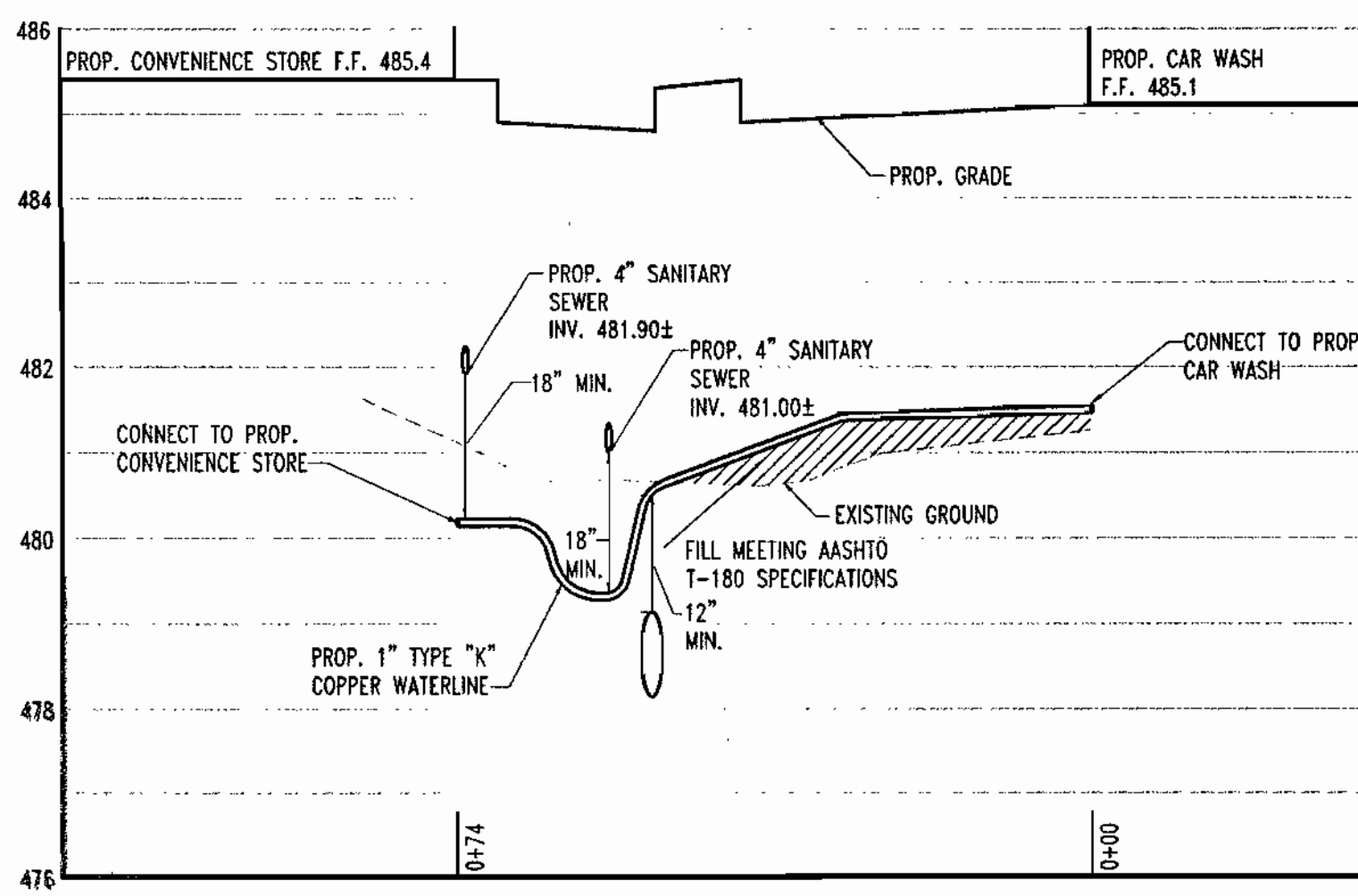
BOHLER ENGINEERING

PROFESSIONAL ENGINEERING SERVICES
510 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 851-7900 FAX: (410) 851-7907

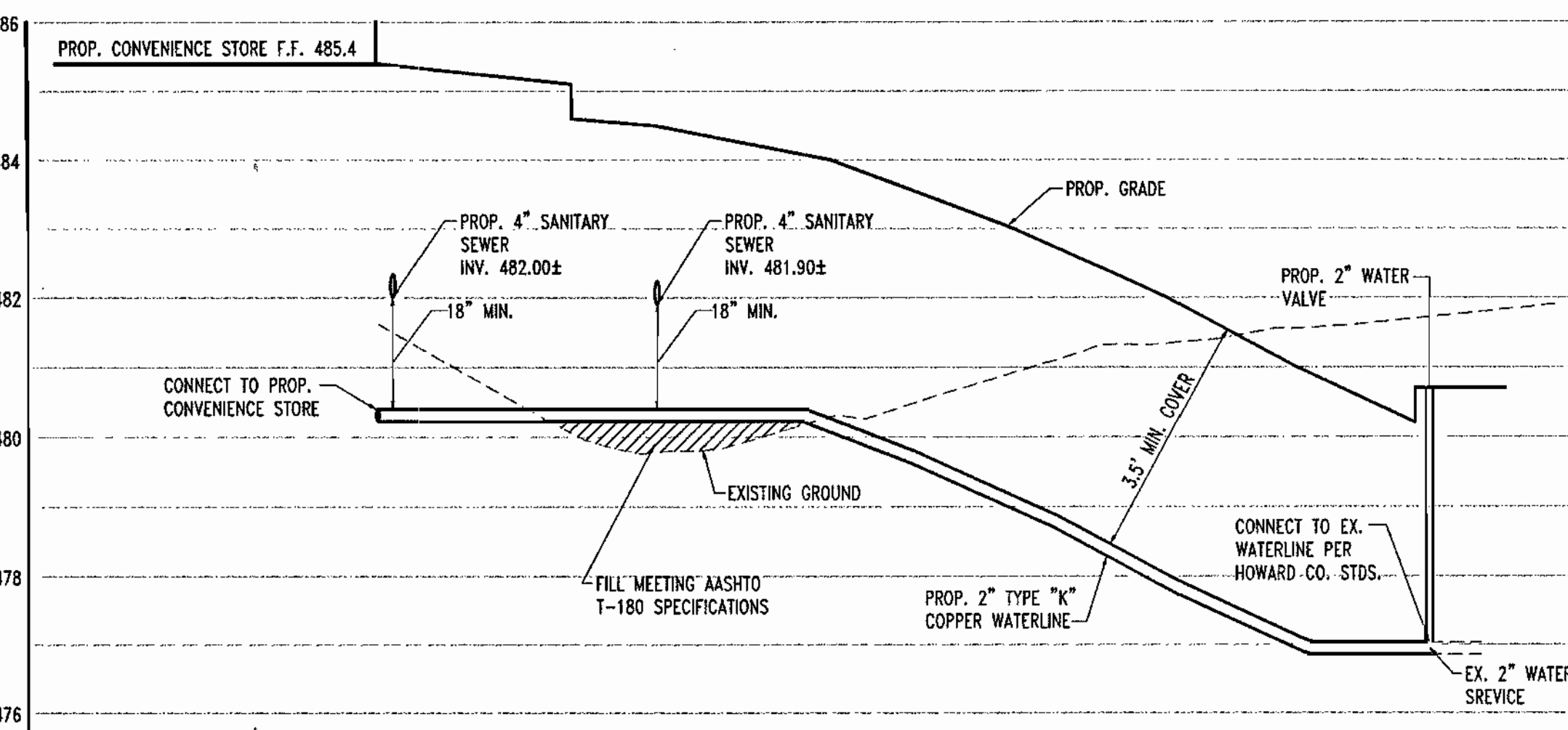
SDP-01-98

PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	LOT/PARCEL NO.
PLAT# OR L/F	467/414	ZONING	33 & 93
BLOCK#	12	TAX MAP NO.	34
WATER CODE	111	ELECT. DISTR	5
		SEWER CODE	UNAVAILABLE
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 93	6390 TEN OAKS ROAD		
TITLE: M8600SSD			
SHELL OIL COMPANY			
MD ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
SITE LIGHTING PLAN			
DESIGN BY:	G.H.R.	SCALE:	1"=20'
DRAWN BY:	R.L.B.	DATE:	10/22/01
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.
		PROJECT NO.:	M89800
		DRAWING NUMBER	10 OF 19

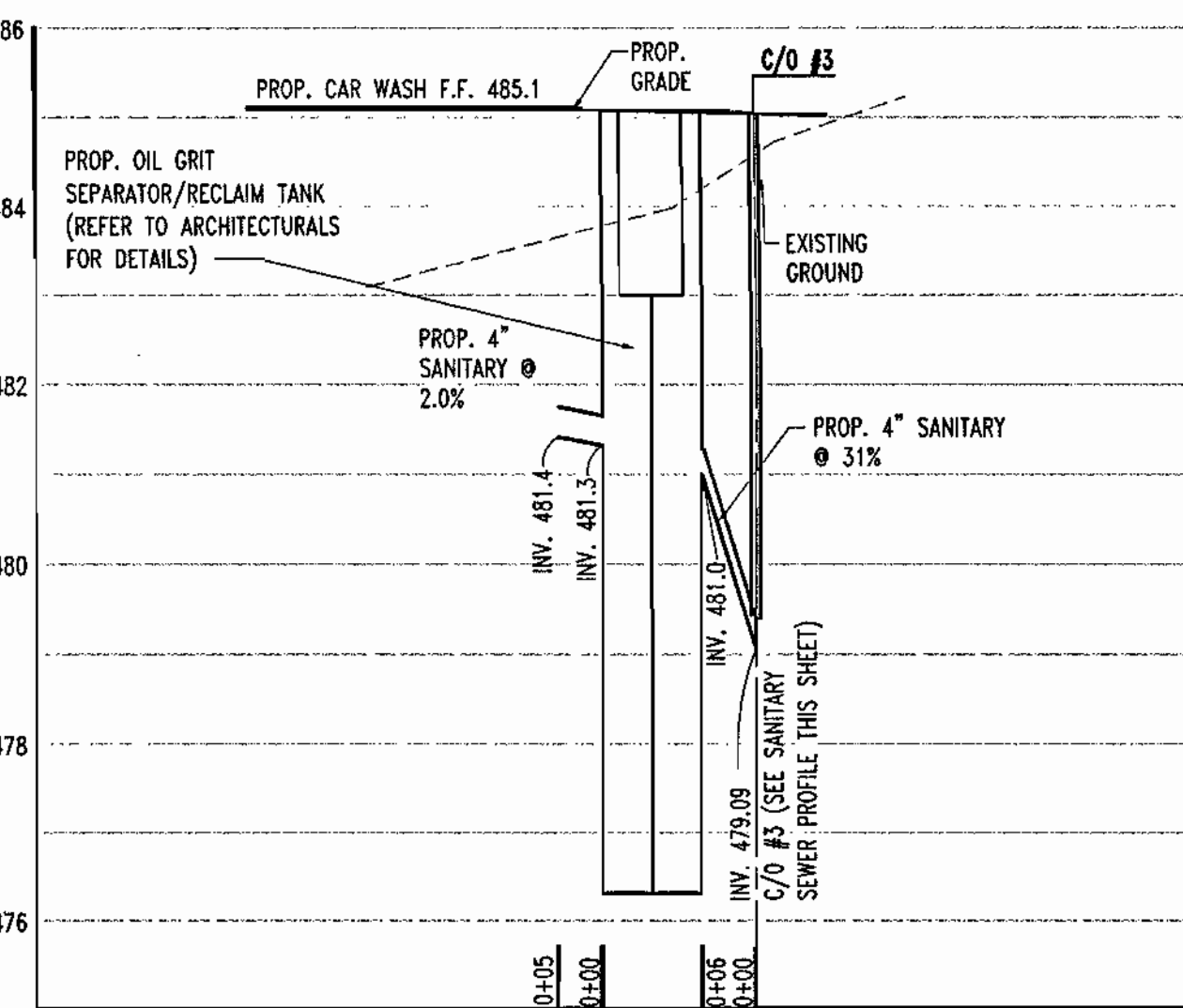
SDP-01-98



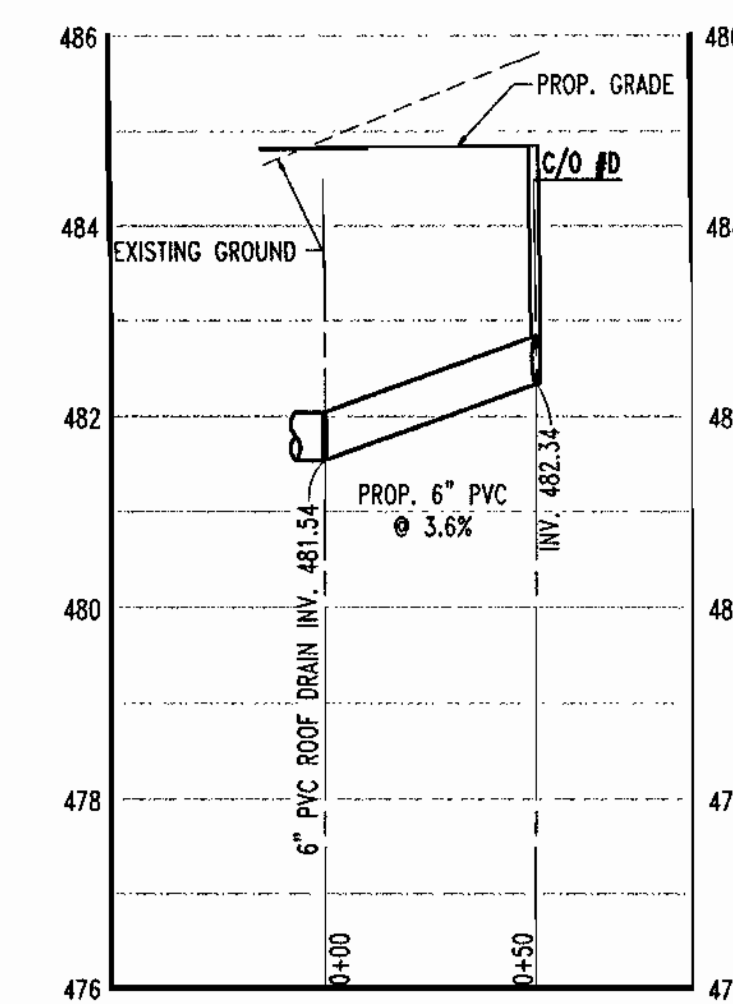
WATER LINE
SCALE: HORZ. 1"=20'
VERT. 1"=2'



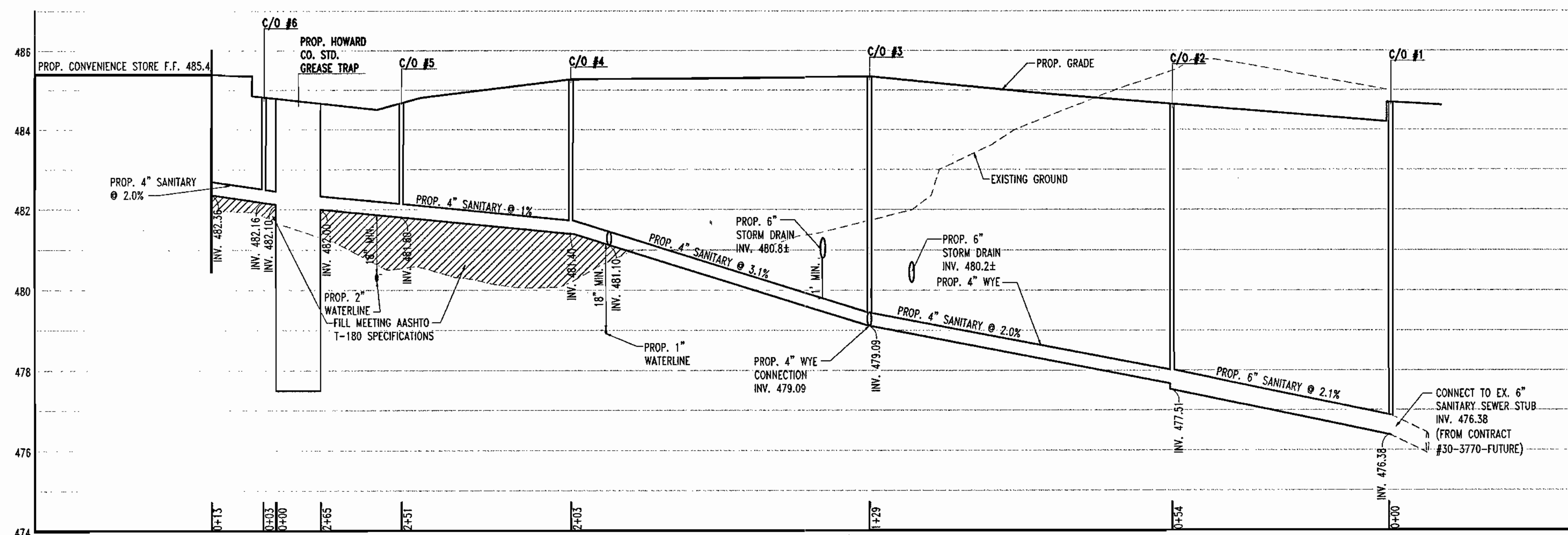
WATER LINE
SCALE: HORZ. 1"=20'
VERT. 1"=2'



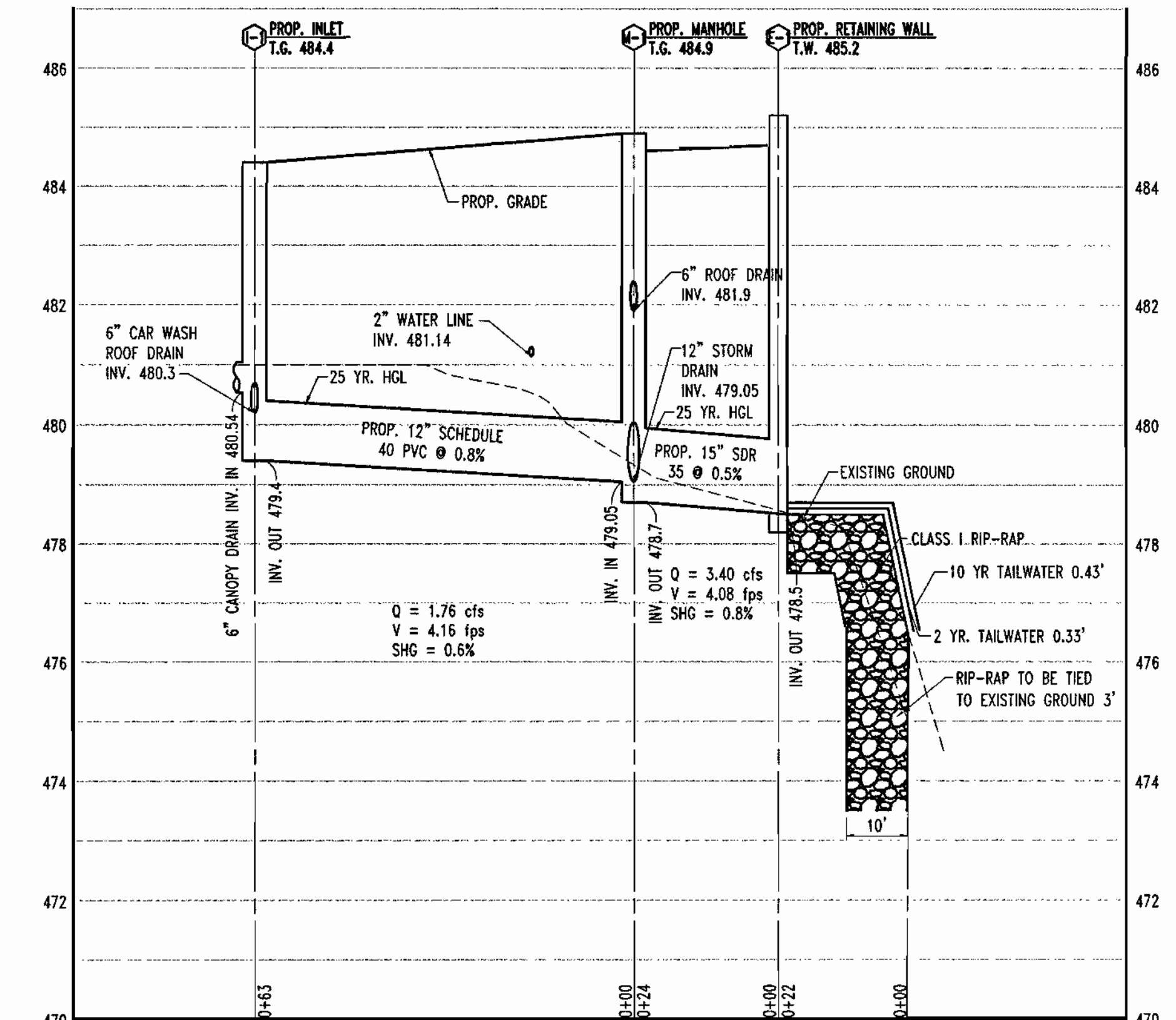
SANITARY SEWER
SCALE: HORZ. 1"=20'
VERT. 1"=2'



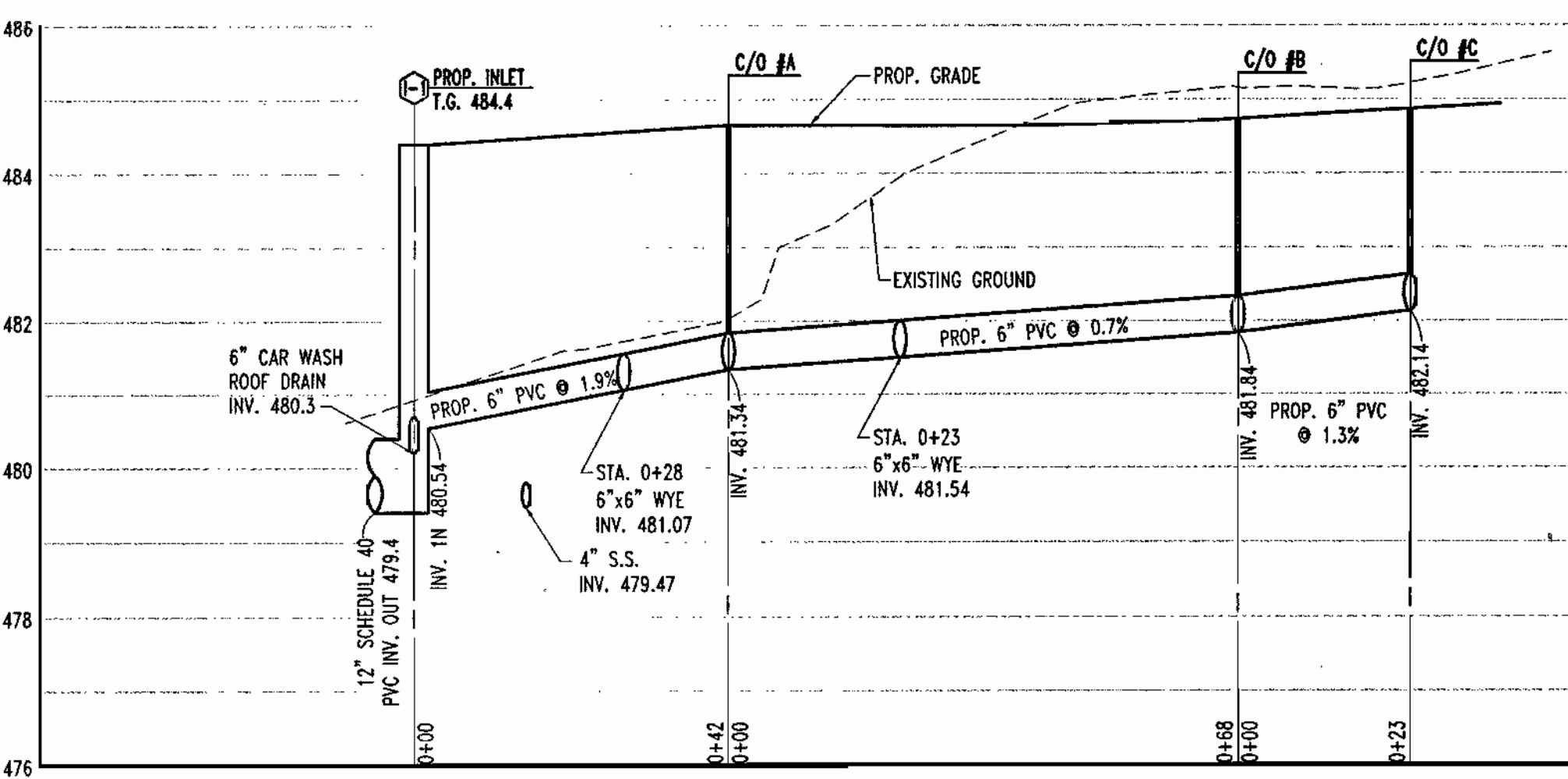
STORM DRAIN
SCALE: HORZ. 1"=20'
VERT. 1"=2'



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

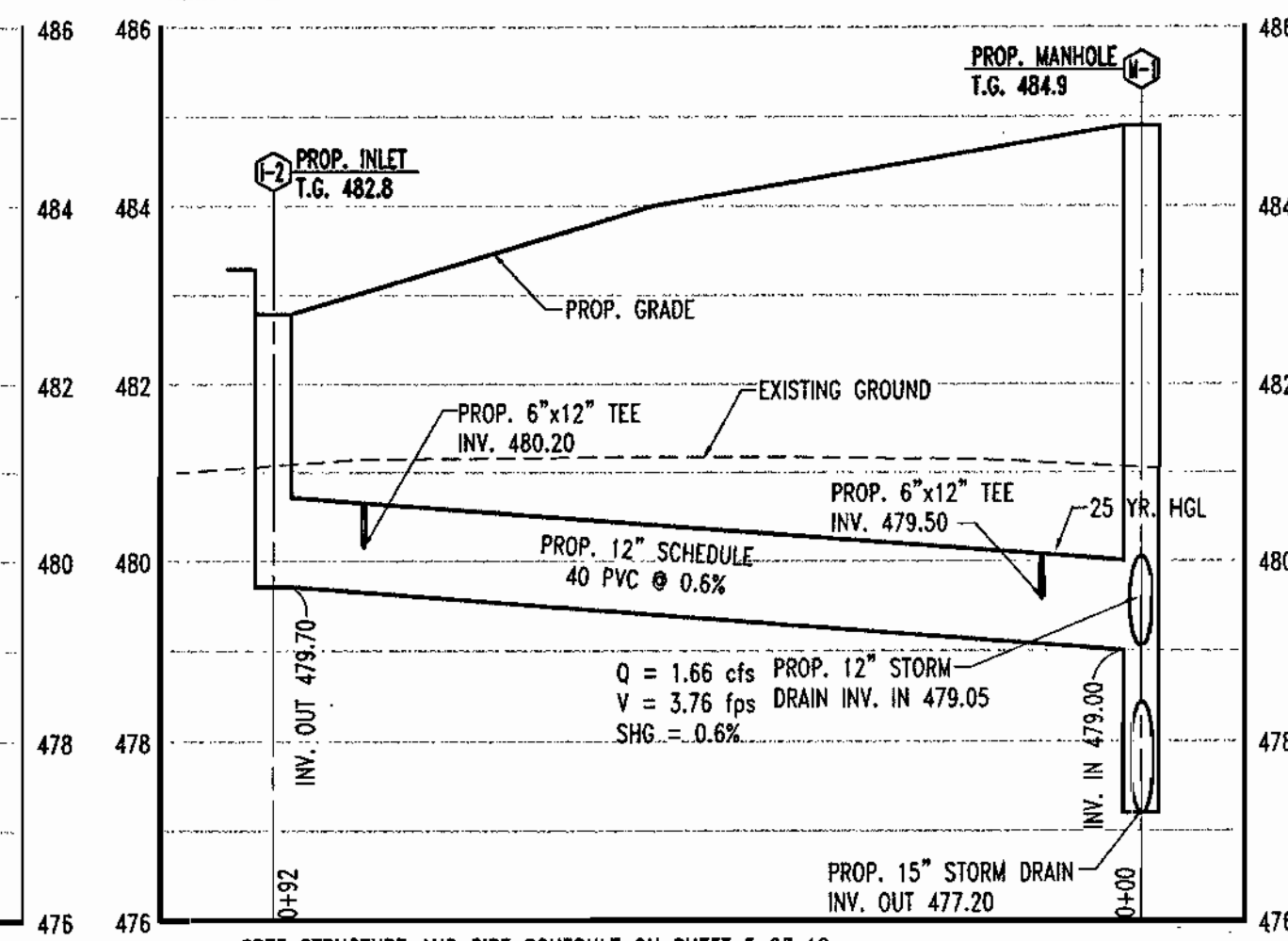


STORM DRAIN
SCALE: HORZ. 1"=20'
VERT. 1"=2'



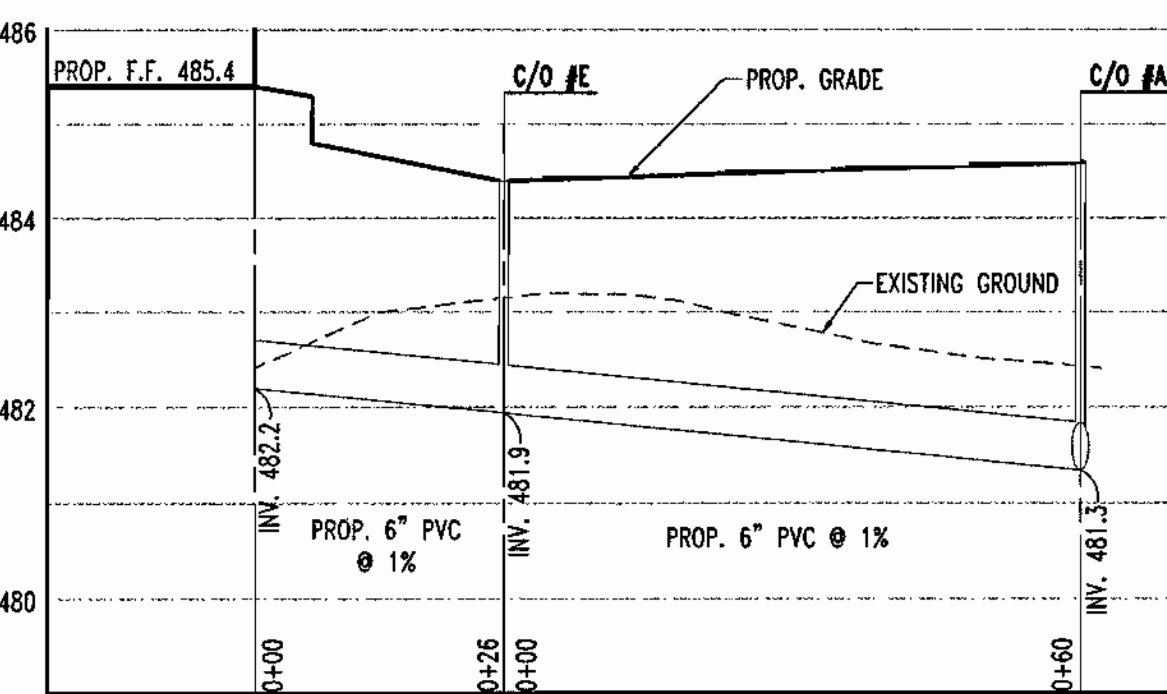
*SEE STRUCTURE AND PIPE SCHEDULE ON SHEET 5 OF 18.

STORM DRAIN
SCALE: HORZ. 1"=20'
VERT. 1"=2'



*SEE STRUCTURE AND PIPE SCHEDULE ON SHEET 5 OF 18.

STORM DRAIN
SCALE: HORZ. 1"=20'
VERT. 1"=2'



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

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 COUNTY HEALTH OFFICER
 CHIEF-DIVISION & LAND DEVELOPMENT
 DIRECTOR
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Brewster M.D. 4/3/02
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 | MD@bohlere.com

3-14-02
 DATE
 ADAM J. VOLNATH
 PROFESSIONAL ENGINEER NO. 21342

OWNER: **MOTIVA ENTERPRISES, LLC**
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029
 DEVELOPER: **MOTIVA ENTERPRISES, LLC**
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT OR L/F	467/414	BLOCK	12	ZONING	B-2
TAX MAP NO.	34	ELECT. DIST.	5	CENSUS TRACT	6023.03
WATER CODE	111	SEWER CODE	UNAVAILABLE		
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M8600SP0					
SHELL OIL COMPANY 100 ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
UTILITY PROFILES					
DESIGN BY: G.H.R.	SCALE: AS SHOWN	PROJECT NO: M8600			
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER			
CHECKED BY: A.J.V.	APPROVED: A.J.V.	11 OF 19			

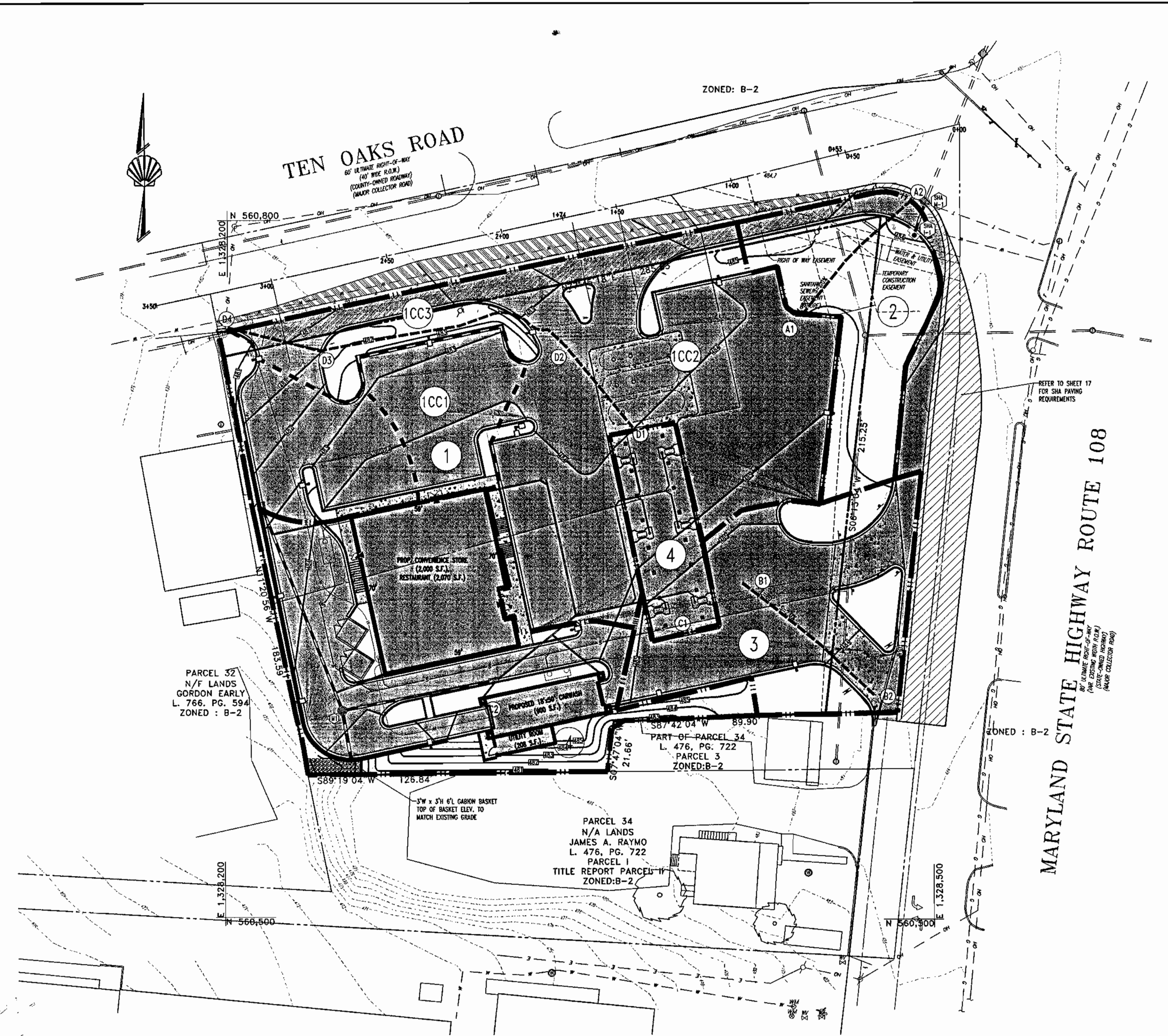
SDP-01-98

SDP-01-98



PRE-DEVELOPMENT DRAINAGE AREAS

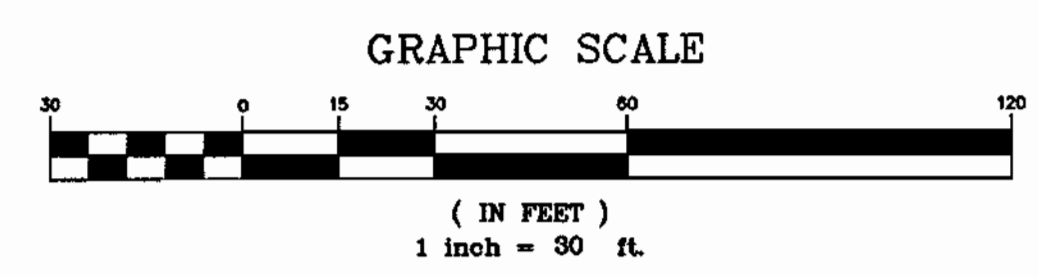
AREA	SIZE	IMPERVIOUS (%)	C
1	22,216 S.F. OR 0.51 ac.	100	98
2	6,103 S.F. OR 0.14 ac.	100	98
3	8,712 S.F. OR 0.20 ac.	100	98
4	23,086 S.F. OR 0.53 ac.	86	92



POST-DEVELOPMENT DRAINAGE AREAS

AREA	SIZE	IMPERVIOUS (%)	C
1	26,572 S.F. OR 0.61 ac.	88	92
2	6,539 S.F. OR 0.15 ac.	31	76
3	8,547 S.F. OR 0.20 ac.	69	89
4	18,731 S.F. OR 0.43 ac.	75	91

SUB AREA	SIZE	IMPERVIOUS (%)	C
CURB CUT 1	3,328 S.F. OR 0.08 ac.	100	98
CURB CUT 2	14,055 S.F. OR 0.32 ac.	91	94
CURB CUT 3	2,580 S.F. OR 0.06 ac.	0	61



LEGEND

- IMPERVIOUS AREA
- DRAINAGE DIVIDE
- CURB CUT DRAINAGE DIVIDE
- TC PATH

SOIL TYPE: ELIOAK HYDRAULIC SOIL GROUP "B".

MISS UTILITY

BEFORE YOU DIG CALL 1-800-282-7777
PROTECT YOURSELF. GIVE THREE WORKING DAYS NOTICE.

THIS DRAWING DOES NOT INCLUDE NECESSARY CONSIDERATIONS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREAFTER APPLICABLE.

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/20/02
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4/15/02
CHIEF-DIVISION & LAND DEVELOPMENT DATE

[Signature] 4/15/02
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

[Signature] 4/3/02
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING

PROFESSIONAL ENGINEERING SERVICES •
810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286 •
(410) 621-7900 FAX: (410) 621-7967 | MD@bohlereng.com

3-14-02
DATE

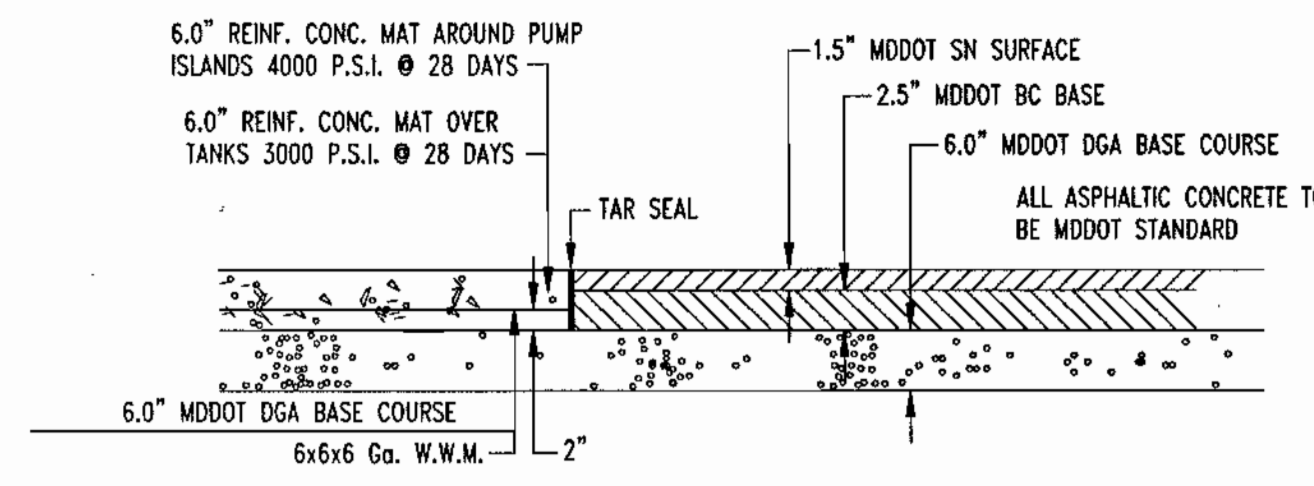
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

OWNER: **MOTIVA ENTERPRISES, LLC**
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029

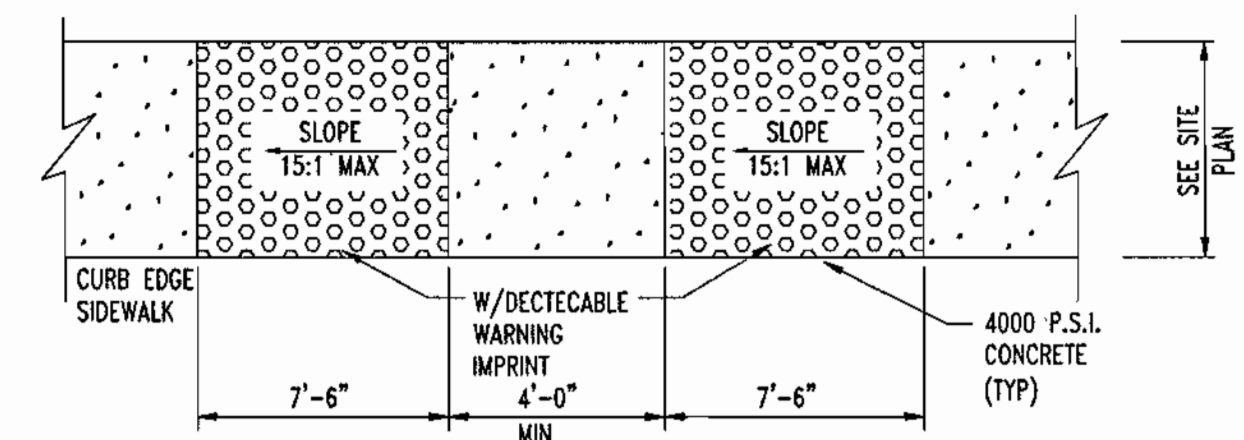
DEVELOPER: **MOTIVA ENTERPRISES, LLC**
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029

PERMIT INFORMATION CHART			
SUBDIVISION NAME	N/A	SECTION/AREA	LOT/PARCEL NO.
PLAT / OR L/F	BLOCK	ZONING	TAX MAP NO.
467/414	12	B-2	34
WATER CODE	111	ELECT. DIST.	5
SEWER CODE		UNAVAILABLE	
ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
PARCEL 33 & 95	6390 TEN OAKS ROAD		
TITLE: M9600SSD			
SHELL OIL COMPANY			
MD ROUTE 108 AND TEN OAKS ROAD			
CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029			
DRAINAGE AREA MAPS			
DESIGN BY: G.H.R.	SCALE: 1"=30'	PROJECT NO: M969600	
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	12 OF 19	

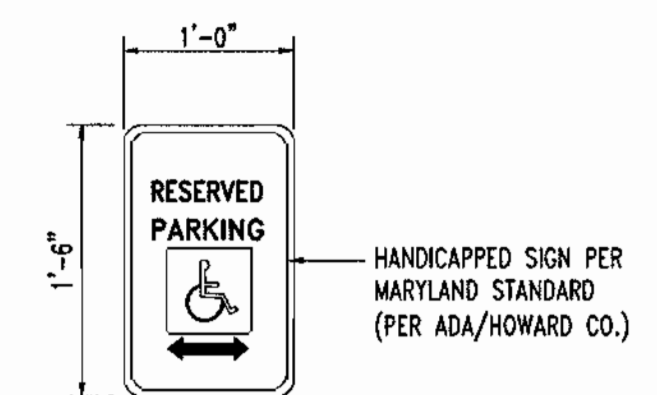
SDP-01-98



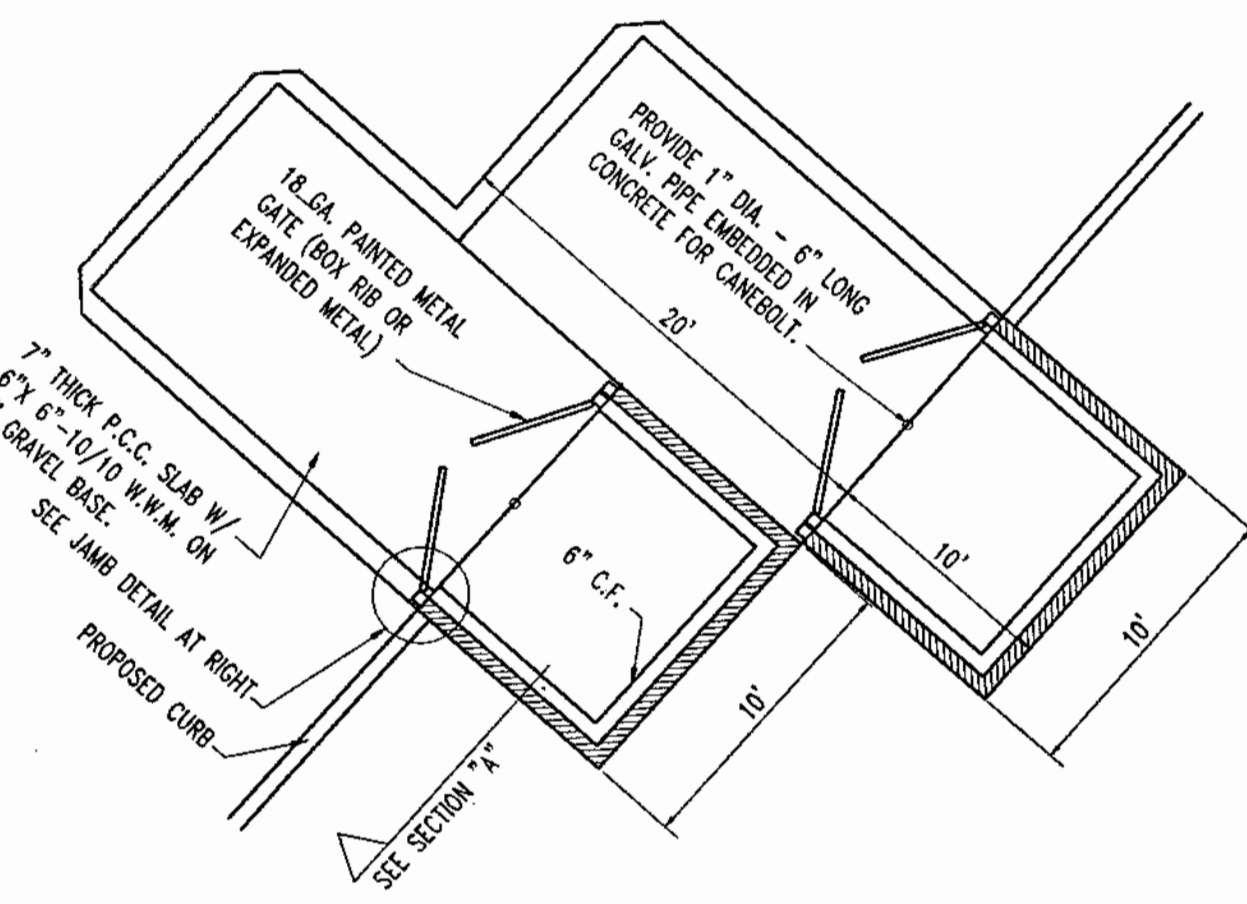
CONCRETE & PAVING DETAIL
NOT TO SCALE



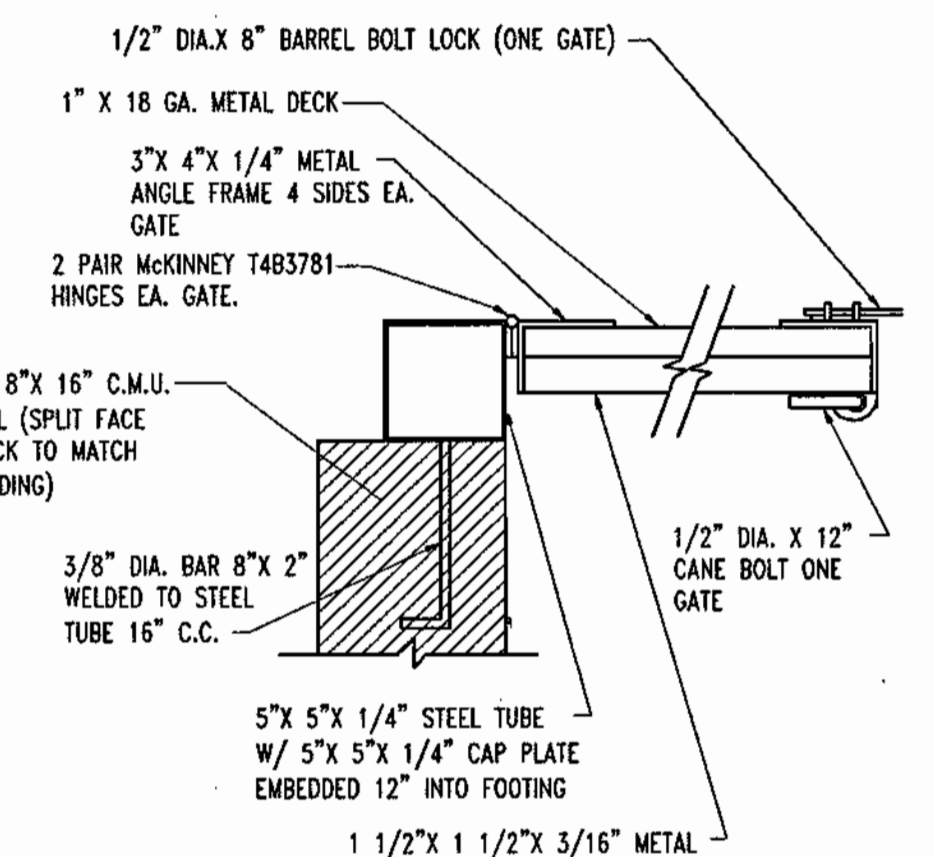
HANDICAP RAMP DETAIL
NOT TO SCALE



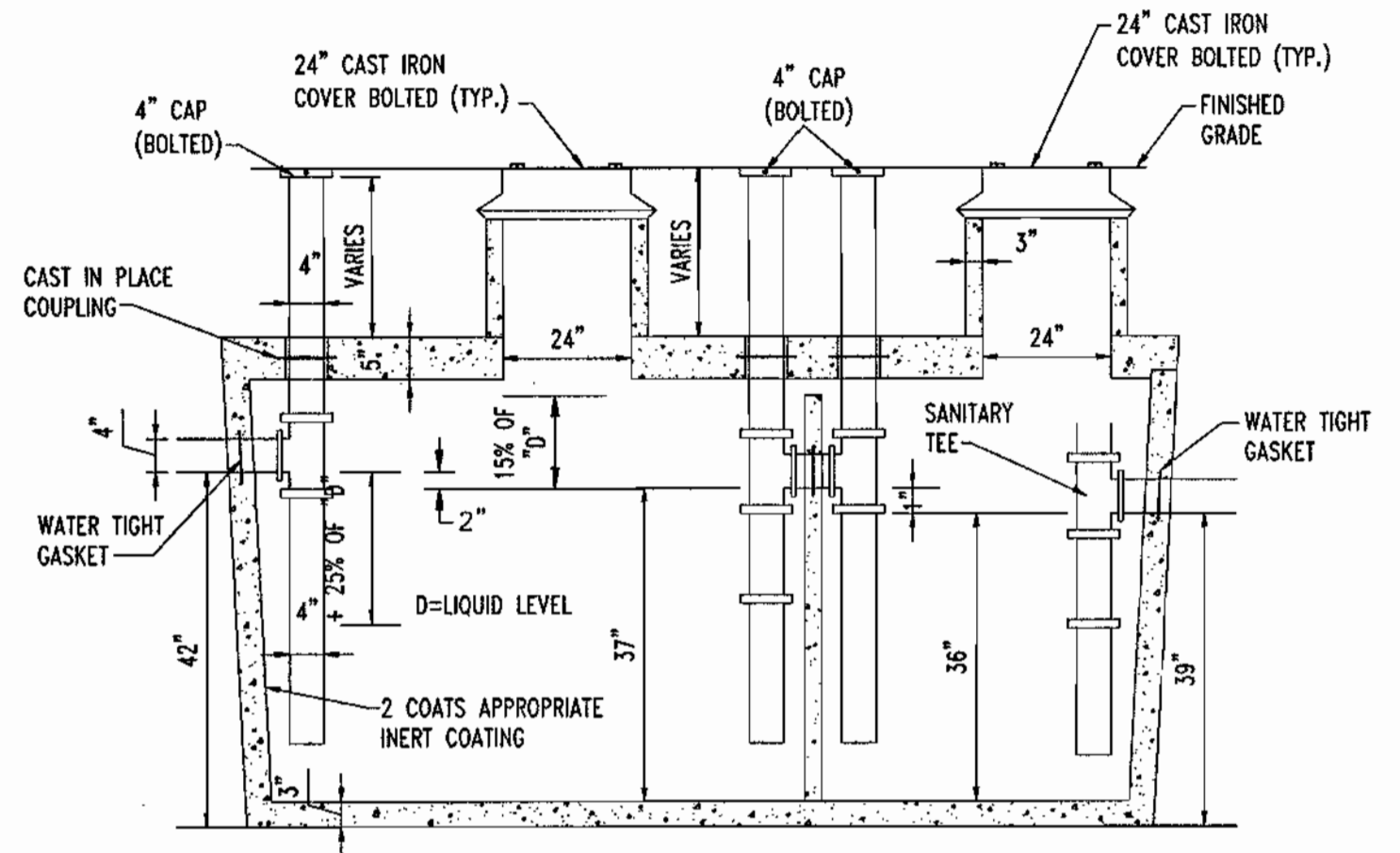
HANDICAP SIGN DETAIL
NOT TO SCALE



PLAN VIEW



JAMB DETAIL



ALL INLET AND OUTLET PIPES SHALL BE INSTALLED NO MORE THAN 12" FROM THE BOTTOM OF THE GREASE TRAP.

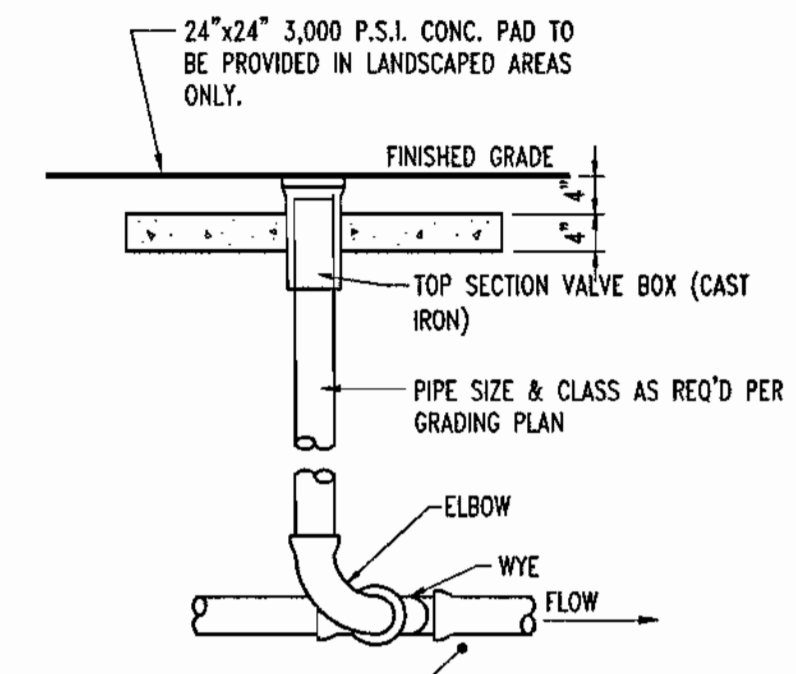
TANK TAPERS TOP TO BOTTOM AND IS TRAPEZOIDAL IN CROSS SECTION.

TANK IS 4000 PSI CONCRETE-STEEL REINFORCED CONCRETE CONFORMS TO ACI 318-16-4.5.1 AND 318-16-4.5.2

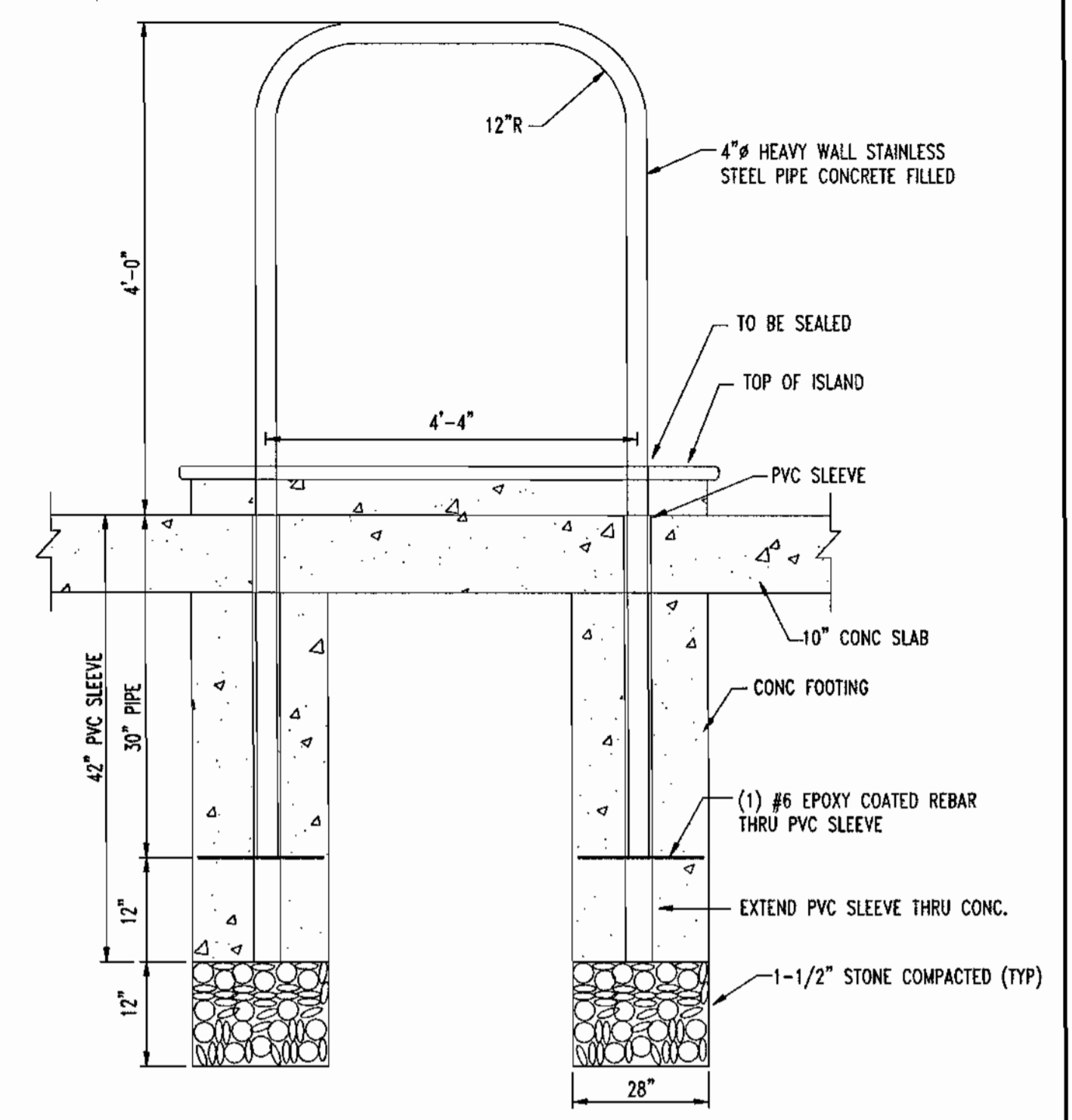
-DIMENSION: 11'0" L x 5'6" W x 52" D (EXTERNAL DIMENSIONS)

-NOTE: WHEN LOCATED IN DRIVEWAYS OR PAVED AREAS, GREASE TRAP TO BE DESIGNED FOR APPROPRIATE LOAD BEARING CONDITIONS.

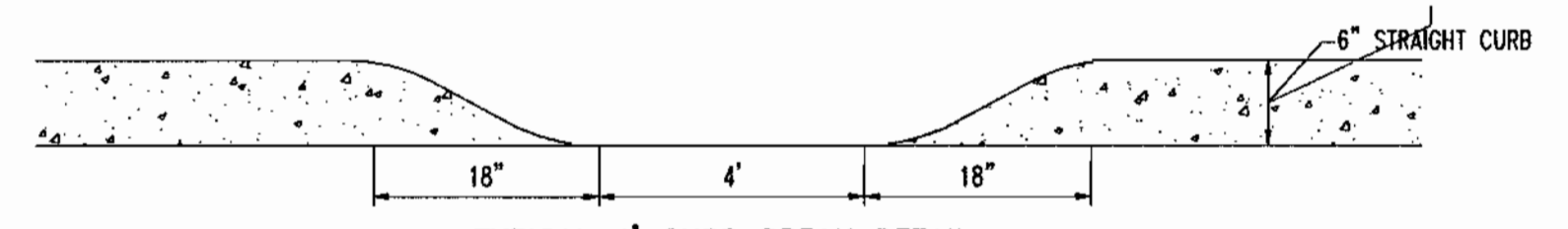
GREASE TRAP
NOT TO SCALE



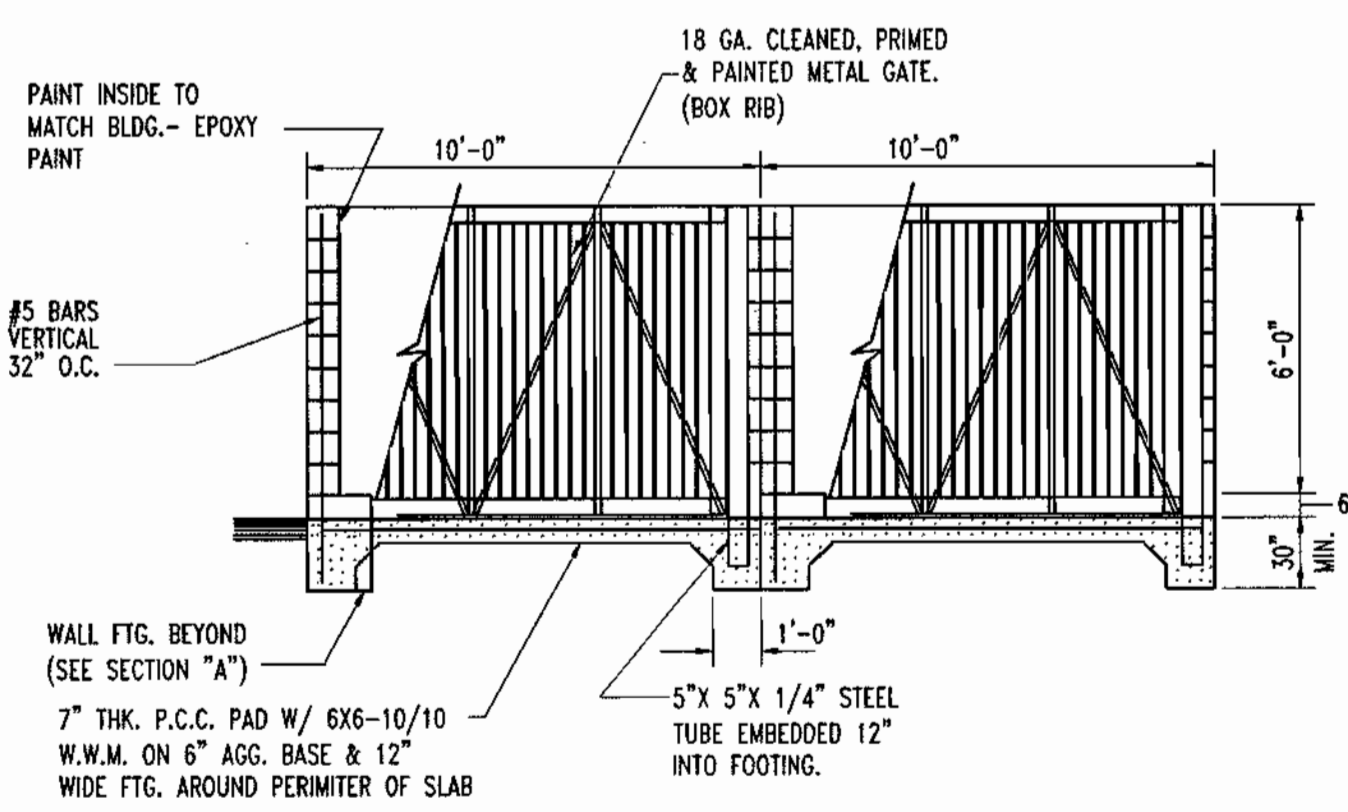
TYPICAL CLEANOUT DETAIL
NOT TO SCALE



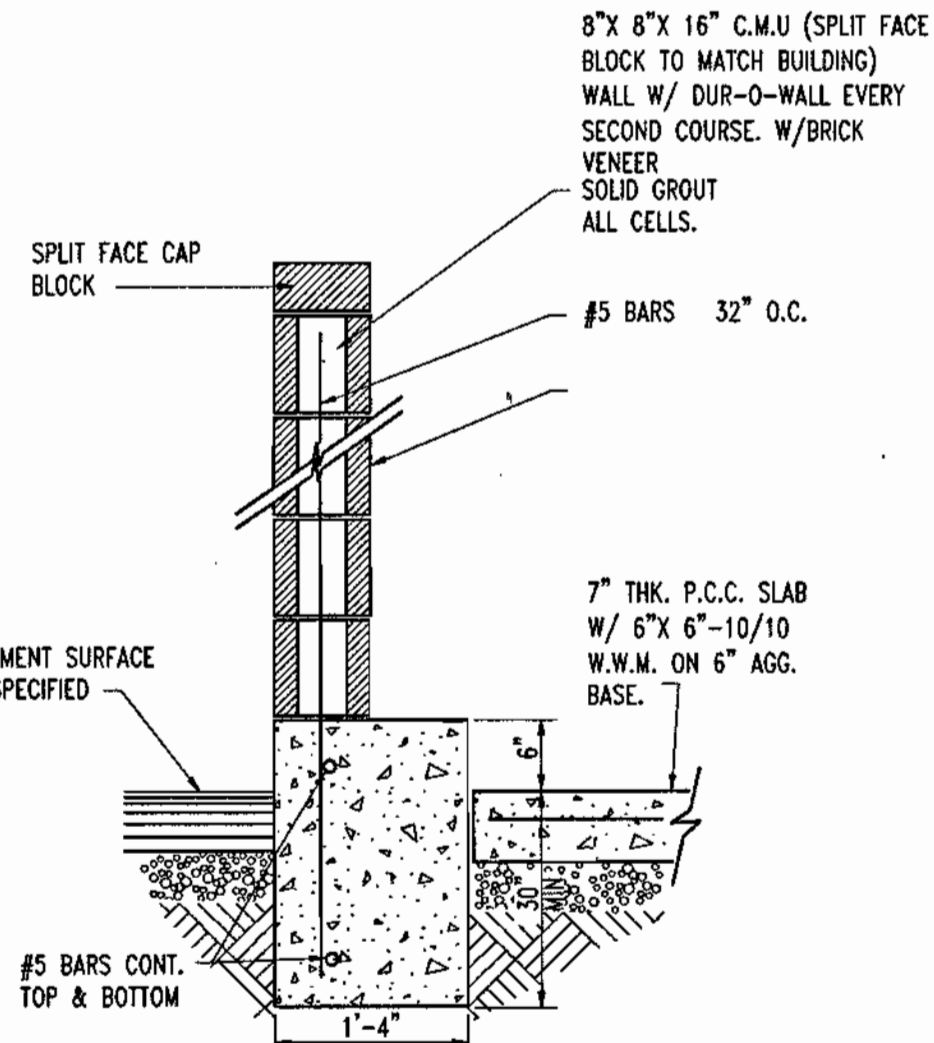
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TYPICAL 4' CURB BREAK DETAIL
NOT TO SCALE



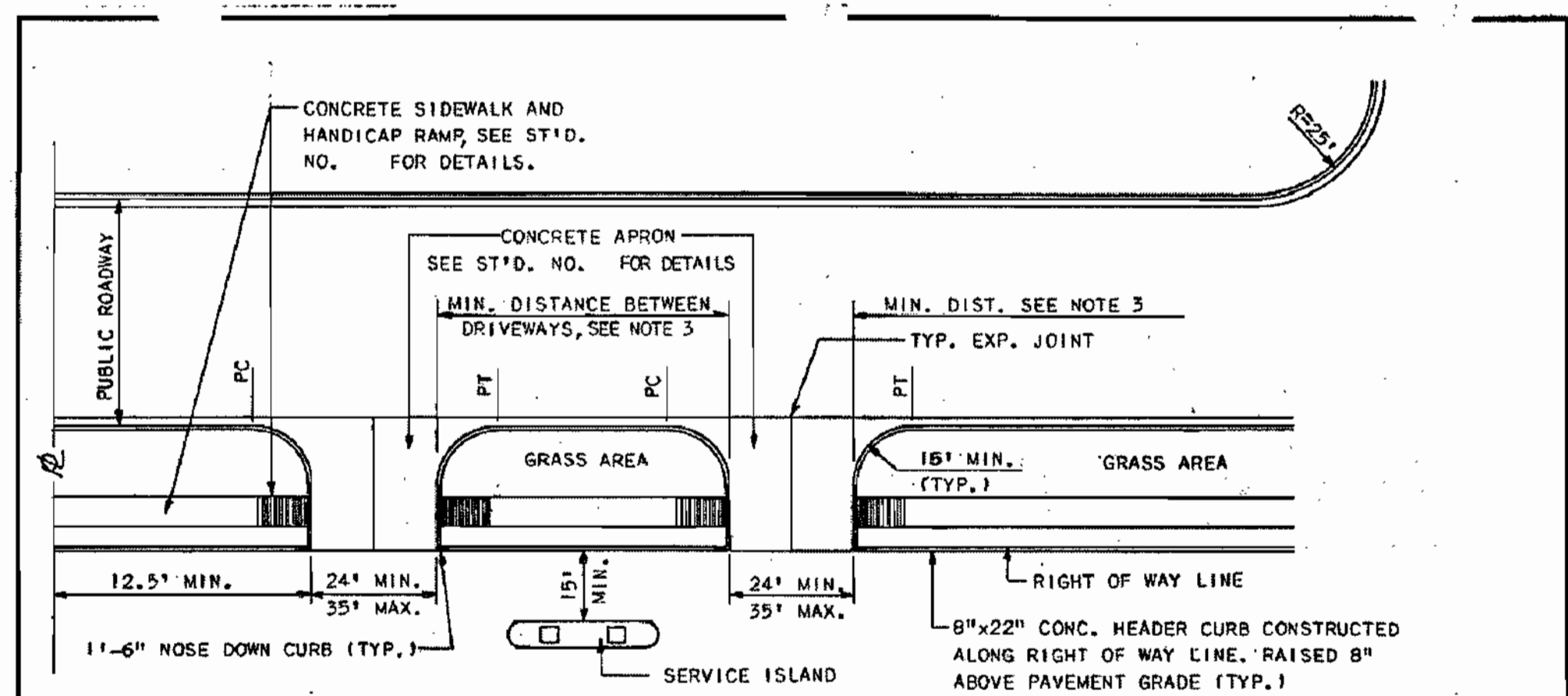
ELEVATION



SECTION \"/>

NOTE:
1. TRASH ENCLOSURE FINISH TO MATCH BUILDING FINISH.
2. TRASH ENCLOSURE UPGRADE TO BE CERTIFIED BY A STRUCTURAL/GEOTECHNICAL ENGINEER.
3. REFER TO ARCHITECTURALS FOR TRASH ENCLOSURE DESIGN INCLUDING WALL, GATES, AND FOOTERS.

10'x20' TRASH ENCLOSURE DETAIL
NOT TO SCALE



- NOTES:
- ANGLE OF INTERSECTION SHALL BE 90° UNLESS OTHERWISE APPROVED BY D.P.W.
 - AT AN INTERSECTION OF TRAFFIC WAYS, THE PUBLIC RIGHT OF WAY LINES SHALL BE TRUNCATED BY STRAIGHT LINES JOINING THE POINTS ON THE RIGHT OF WAY LINE. SEE SECTION 16-113, PARR.F3 OF SUB-DIVISION REGULATIONS. ALL PERMANENT SIGN AND LIGHT FIXTURES SHALL BE CONFINED WITHIN THE PROPERTY LINE.
 - SEE SECTION 2.6.4 OF THE DESIGN MANUAL FOR MINIMUM CORNER CLEARANCE AND DRIVEWAY SPACING.
 - ALTERNATE TYPE CONCRETE APRON AS SHOWN ON ST'D. NO. MAY BE USED IN LIEU ON ARRANGEMENT SHOWN HEREON.

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* 1-12-81
Chief-Dir. of Engr. Date

GASOLINE SERVICE STATION ENTRANCE
CONNECTED TO CLOSED SECTION ROADWAY

REV JAN 1982
DRAWN BY: W. Y. BALLARD
CHECKED BY: J. L. R.
NO SCALE
R-6.11

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief-Development Engineering Division: *[Signature]* 3/20/02
Chief-Division & Land Development: *[Signature]* 4/15/02
Director: *[Signature]* 4/23/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS:
[Signature] 4/23/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD APPROVAL

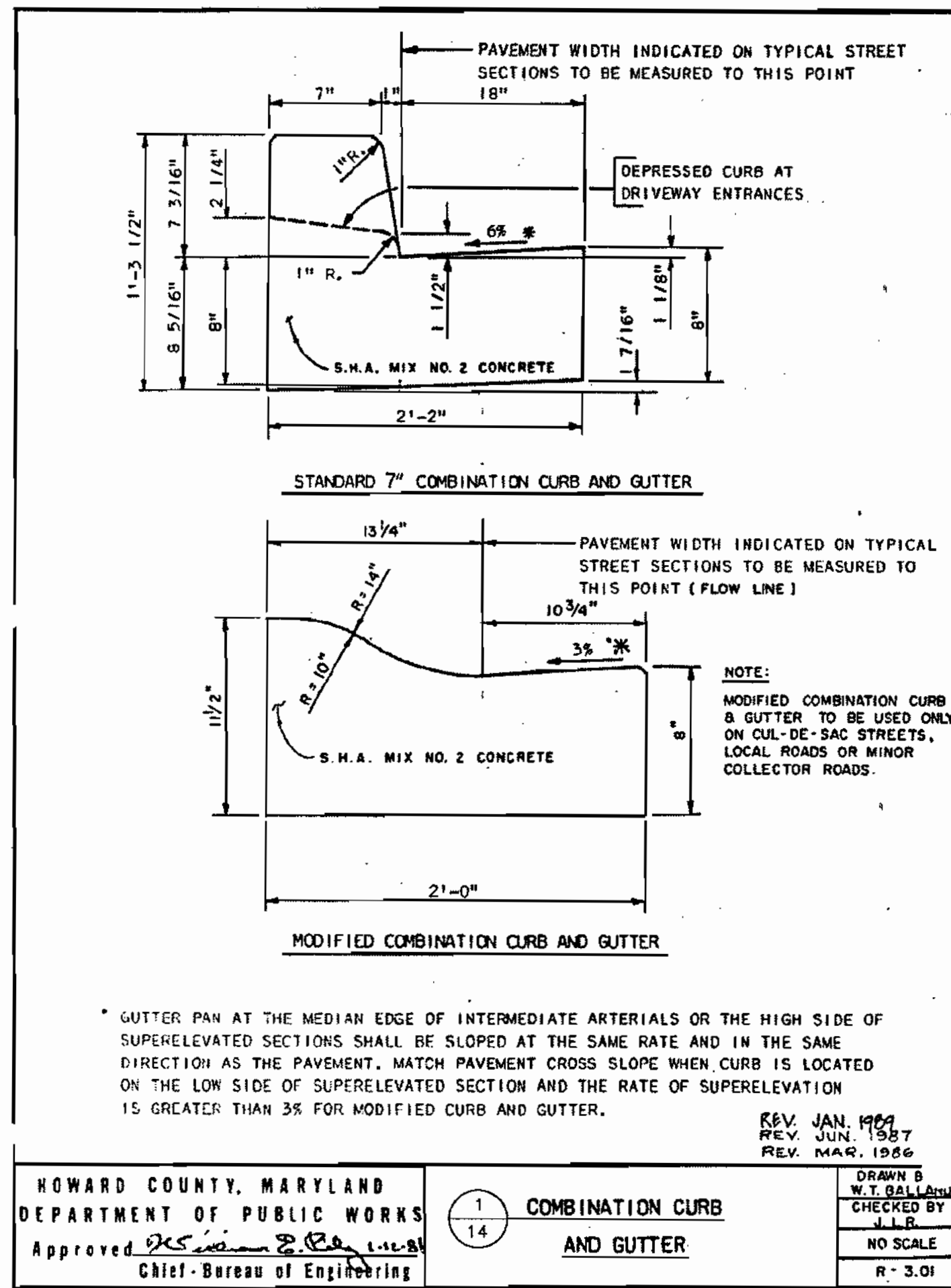
BOHLER ENGINEERING
PROFESSIONAL ENGINEERING SERVICES
810 GREENACRES COURT, SUITE 400, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7997 | MD@bohlereng.com

3-14-02
DATE:
[Professional Engineer Seal]
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

OWNER:
MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN.: CLARENCE LEE
PHONE: (703)-259-2029

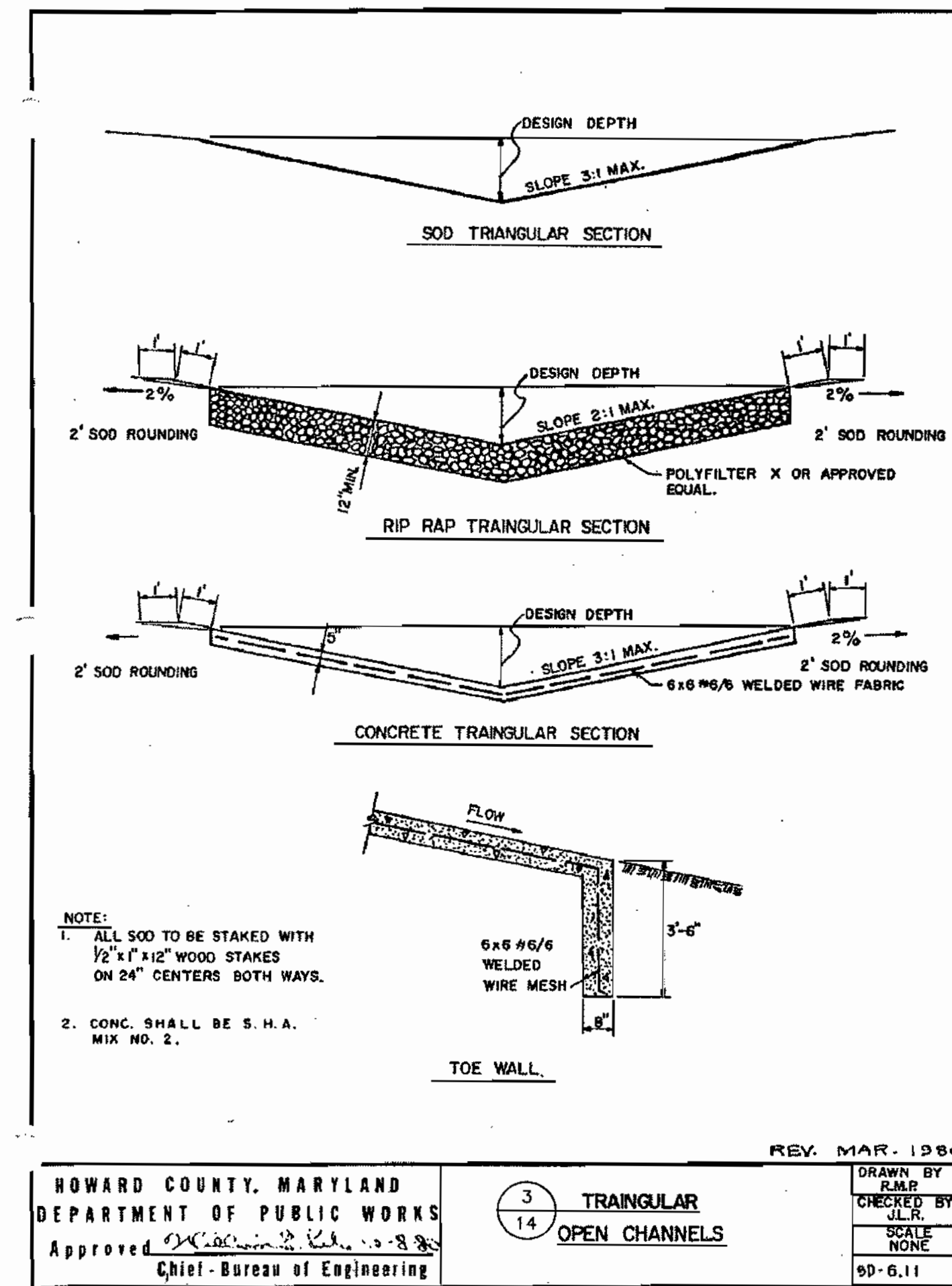
PERMIT INFORMATION CHART					
SUBDIVISION NAME		SECTION/AREA		LOT/PARCEL NO.	
PLAT OR L/F	BLOCK	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
WATER CODE			SEWER CODE		
ADDRESS CHART					
LOT/PARCEL #			STREET ADDRESS		
TITLE: M8600500					
FOR A SHELL STATION LOCATED AT MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
NOTES AND DETAILS					
DESIGN BY: G.H.R.	SCALE: 1"=20'	PROJECT NO.: MDR8600			
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER			
CHECKED BY: A.J.V.	APPROVED: A.J.V.	13 OF 19			



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* Chief - Bureau of Engineering

1 COMBINATION CURB AND GUTTER

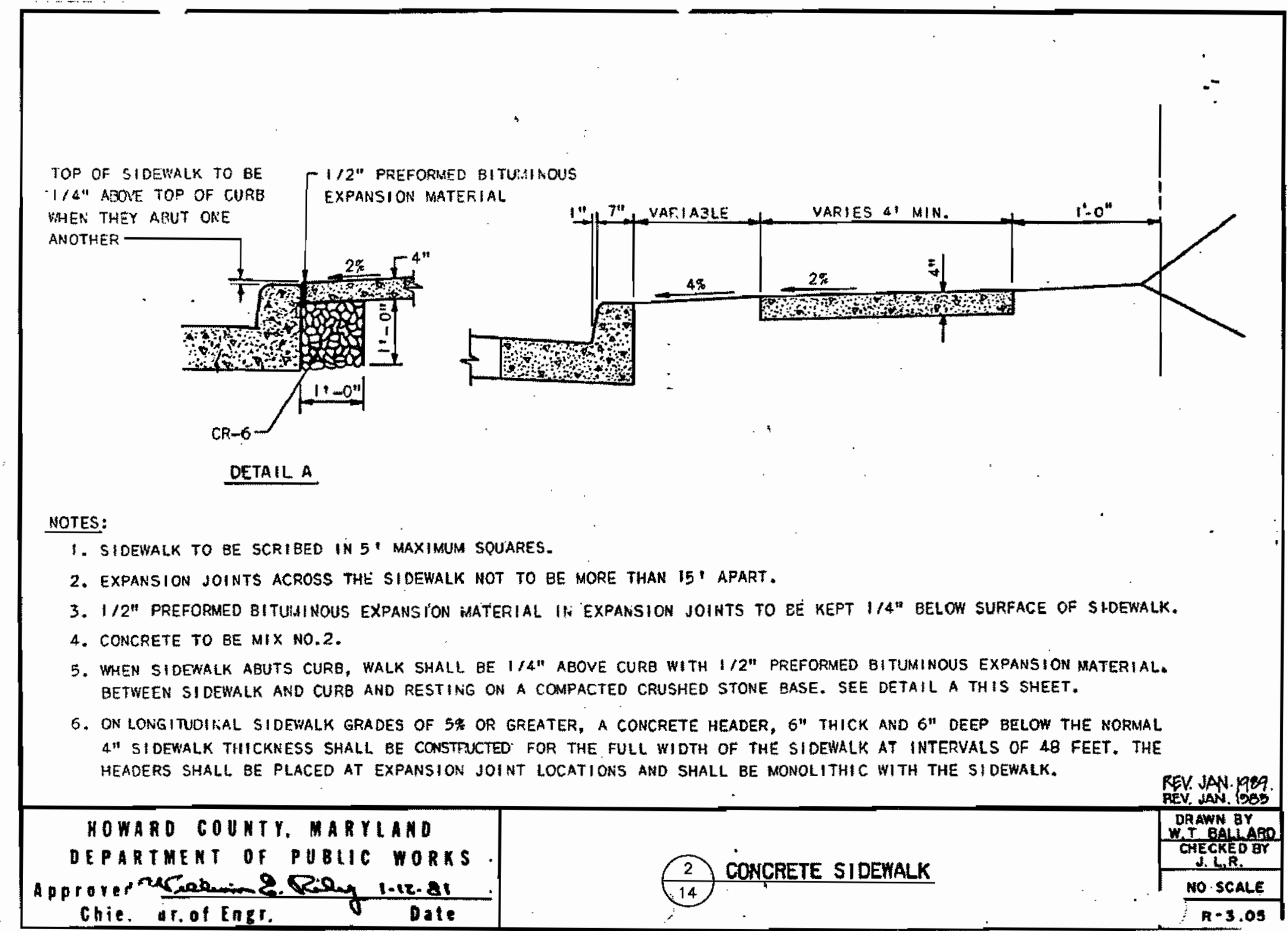
DRAWN BY W.T. BALLARD
CHECKED BY J.L.B.
NO SCALE
R-3.01



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* Chief - Bureau of Engineering

3 TRIANGULAR OPEN CHANNELS

DRAWN BY R.L.B.
CHECKED BY J.L.B.
SCALE NONE
R-6.11



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* Chief - Bureau of Engineering

2 CONCRETE SIDEWALK

DRAWN BY W.T. BALLARD
CHECKED BY J.L.B.
NO SCALE
R-3.05

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCK	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
P-2	RESIDENTIAL ZONES LOCAL CUL-DE-SAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE 6" GRADED AGGREGATE BASE (GAB)
P-3	RESIDENTIAL ZONES MINOR AND MAJOR COLLECTORS COMMERCIAL-INDUSTRIAL ZONES LOCAL AND CUL-DE-SAC STREETS ALLEYS TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4 1/2" BIT. CONC. BASE 5" GRADED AGGREGATE BASE (GAB)
P-4	COMMERCIAL-INDUSTRIAL ZONES MINOR COLLECTOR	1 1/2" BIT. CONC. SURFACE 3 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)

* TRAVELWAYS ARE DEFINED AS THE ROADWAYS LEADING TO THE PARKING BAYS.
* HEAVY TRUCKS ARE DEFINED AS THOSE WITH 6 WHEEL OR MORE INCLUDING GARBAGE TRUCKS.

REV. OCT. 1992
REV. JAN. 1989
REV. JAN. 1982

HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]* Chief - Bureau of Engineering

4 PAVING SECTIONS P-1 THROUGH P-4

DRAWN BY W.T. BALLARD
CHECKED BY J.L.B.
NO SCALE
R-2.01

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/20/02
DATE

[Signature] 4/15/02
DATE

[Signature] 4/15/02
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWAGE SYSTEMS.

[Signature] 4/03/02
DATE

BOHLER ENGINEERING

PROFESSIONAL ENGINEERING SERVICES
810 GLENDALES COURT, SUITE 300, TOWSON, MD 21286
(410) 251-7900 FAX: (410) 251-7957 | MD@bohlereng.com

3-14-02
DATE

[Signature]

ADAM J. VOLANT
PROFESSIONAL ENGINEER NO. 21342

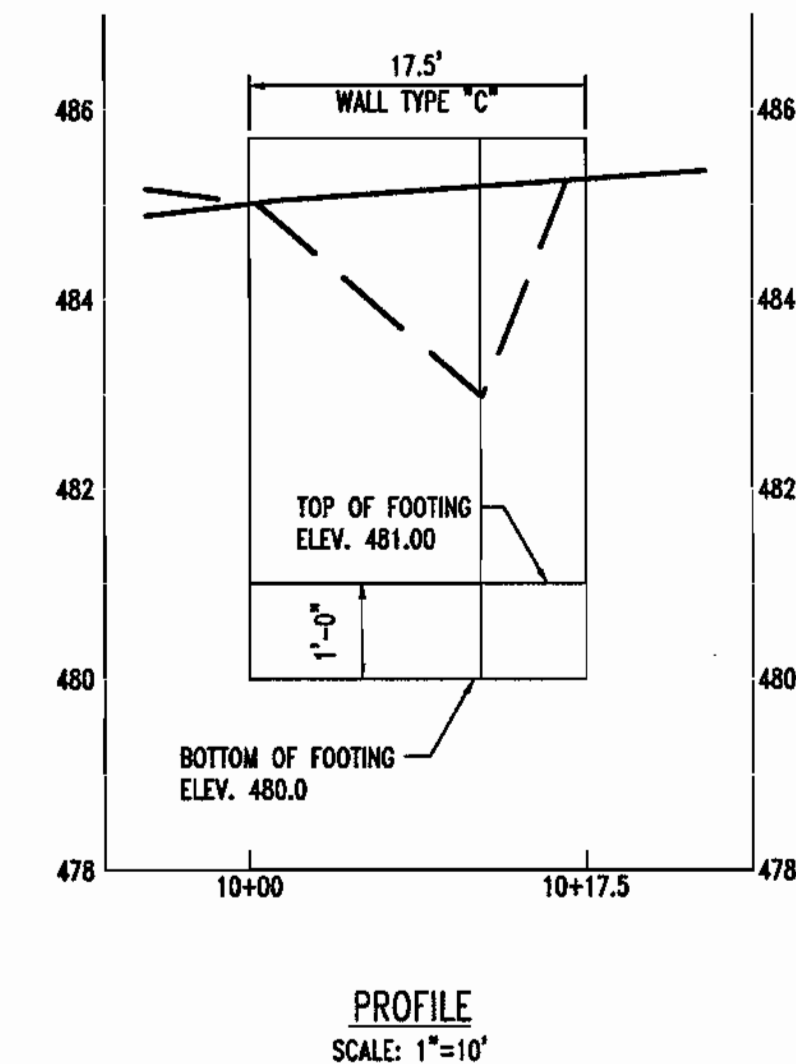
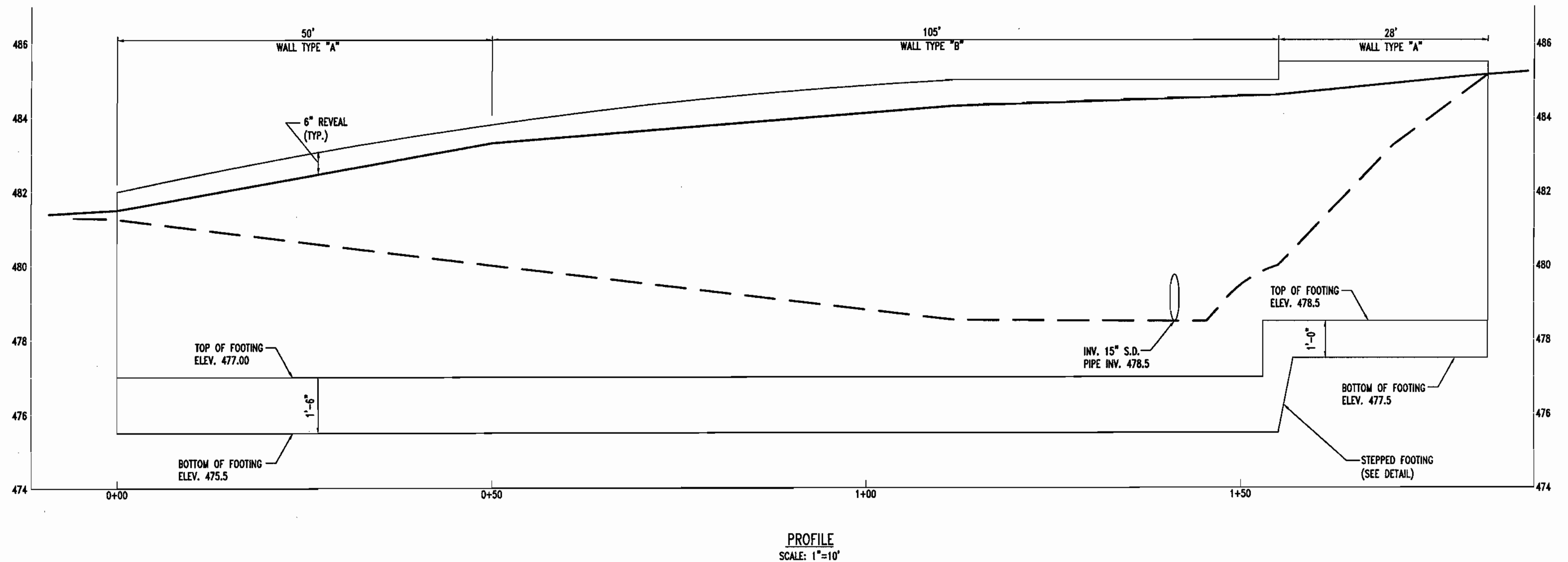
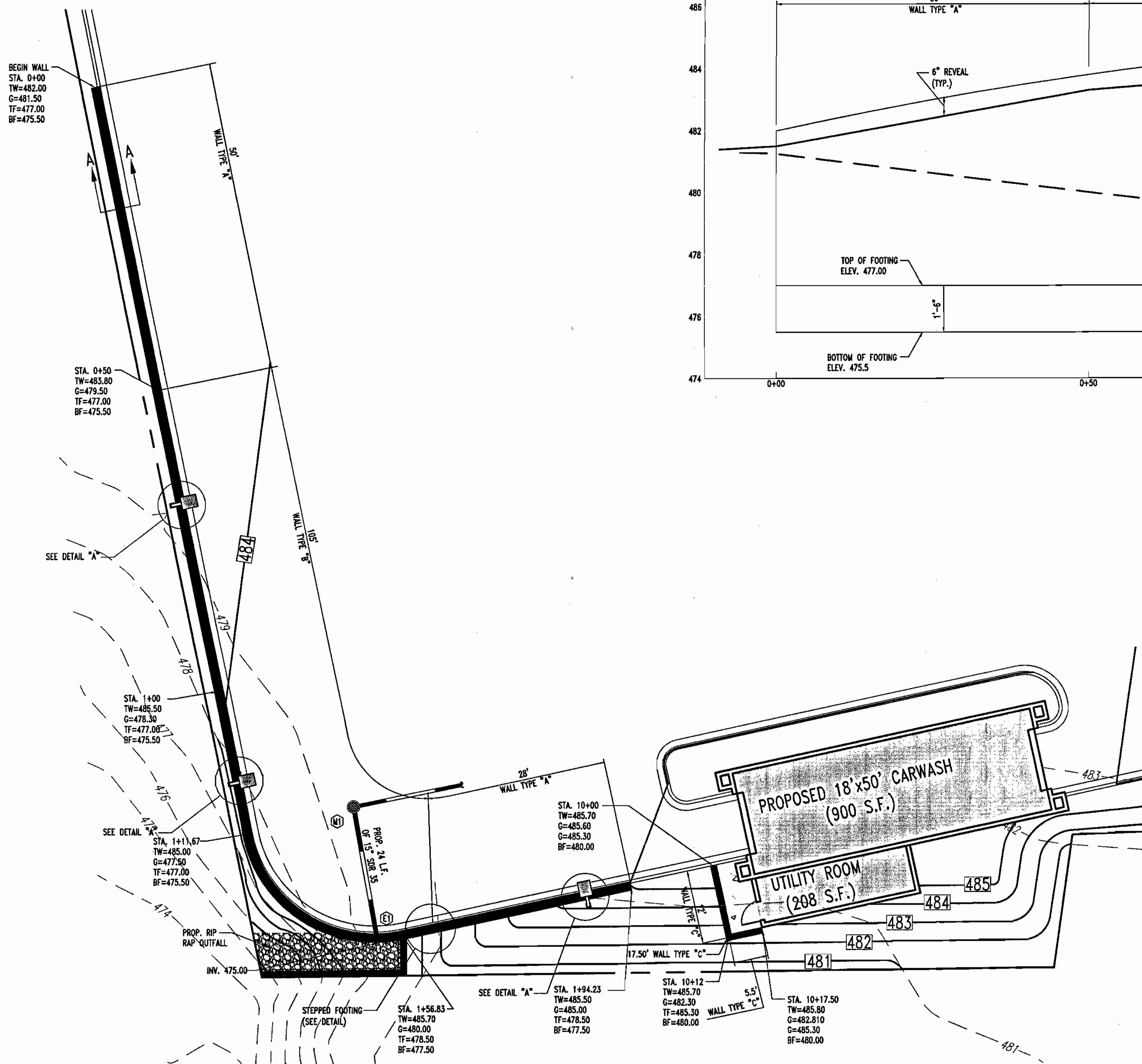
OWNER:
MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
3800 PICKETT ROAD
FAIRFAX, VA. 22031
ATTN: CLARENCE LEE
PHONE: (703)-259-2029

SDP-01-98

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT OR L/F	487/414	BLOCK	12	ZONING	B-2
TAX MAP NO.	54	ELECT. DISTR.	5	CENSUS TRACT	6023.03
WATER CODE	111	SEWER CODE	UNAVAILABLE		
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M8600SDO	SHELL OIL COMPANY MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029				
NOTES AND DETAILS					
DESIGN BY: G.H.R.	SCALE: NOT TO SCALE	PROJECT NO: M868600			
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER			
CHECKED BY: A.J.V.	APPROVED: A.J.V.	14 OF 19			

SDP-01-98



SOILS NOTES

- FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2500 PSI. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.
- SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.
- BACKFILL SHALL BE PERFORMED IN 6" LIFTS COMPACTED TO 95% OPTIMUM DRY DENSITY.
- BACKFILL WITHIN 8' OF THE PROPOSED RETAINING WALLS SHALL BE COMPACTED BY HAND. NO HEAVY EQUIPMENT IS TO BE UTILIZED WITHIN 8' OF THE PROPOSED RETAINING WALLS.

CONCRETE NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL RETAINING WALLS.
- ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".
- ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
- REINFORCING STEEL BARS SHALL BE MINIMUM ASTM A615, GRADE 60, AND SHALL BE FIELD WIRED IN PLACE.
- ALL FORMWORK, AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES, AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

CONSTRUCTION NOTES

- PROPOSED WALL CONSTRUCTION SHALL BE PERFORMED UNDER THE OBSERVATION OF A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- FOUNDATION SOILS MUST BE CERTIFIED BY A GEO-TECHNICAL ENGINEER TO ASSURE FOUNDATION SOIL STRENGTH MEET OR EXCEEDS THE REQUIRED DESIGN STRENGTH.

NOTE

FOUNDATION SOILS MUST BE EXAMINED BY THE ENGINEER TO ASSURE THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS ASSUMED DESIGN STRENGTH.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION OF LAND DEVELOPMENT
 DIRECTOR
 DATE: 3/26/02
 DATE: 4/15/02
 DATE: 4/16/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER
 DATE: 4/3/02

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENDALE SQUARE COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 | MD@bohlereng.com

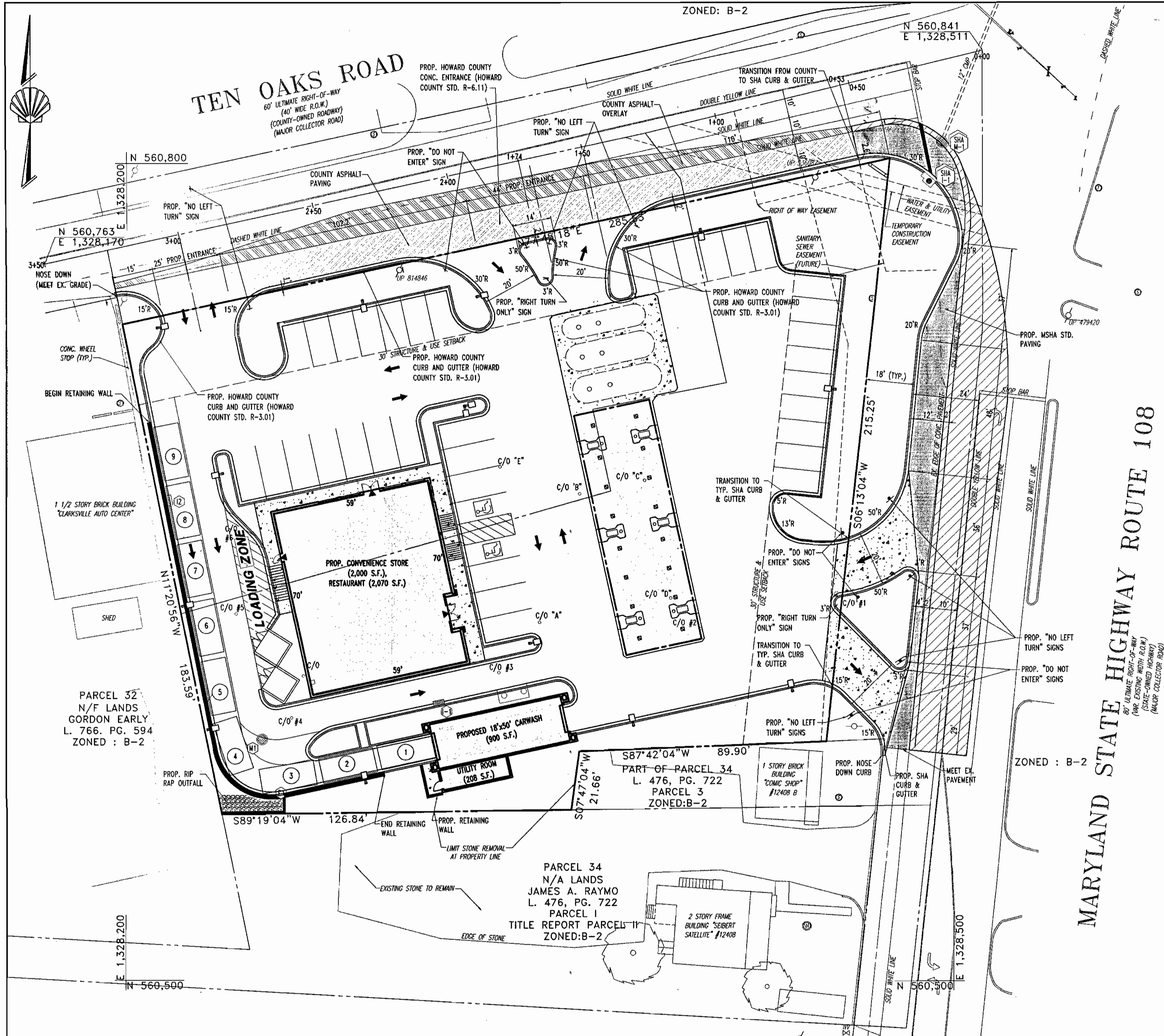
3-14-02
 DATE
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

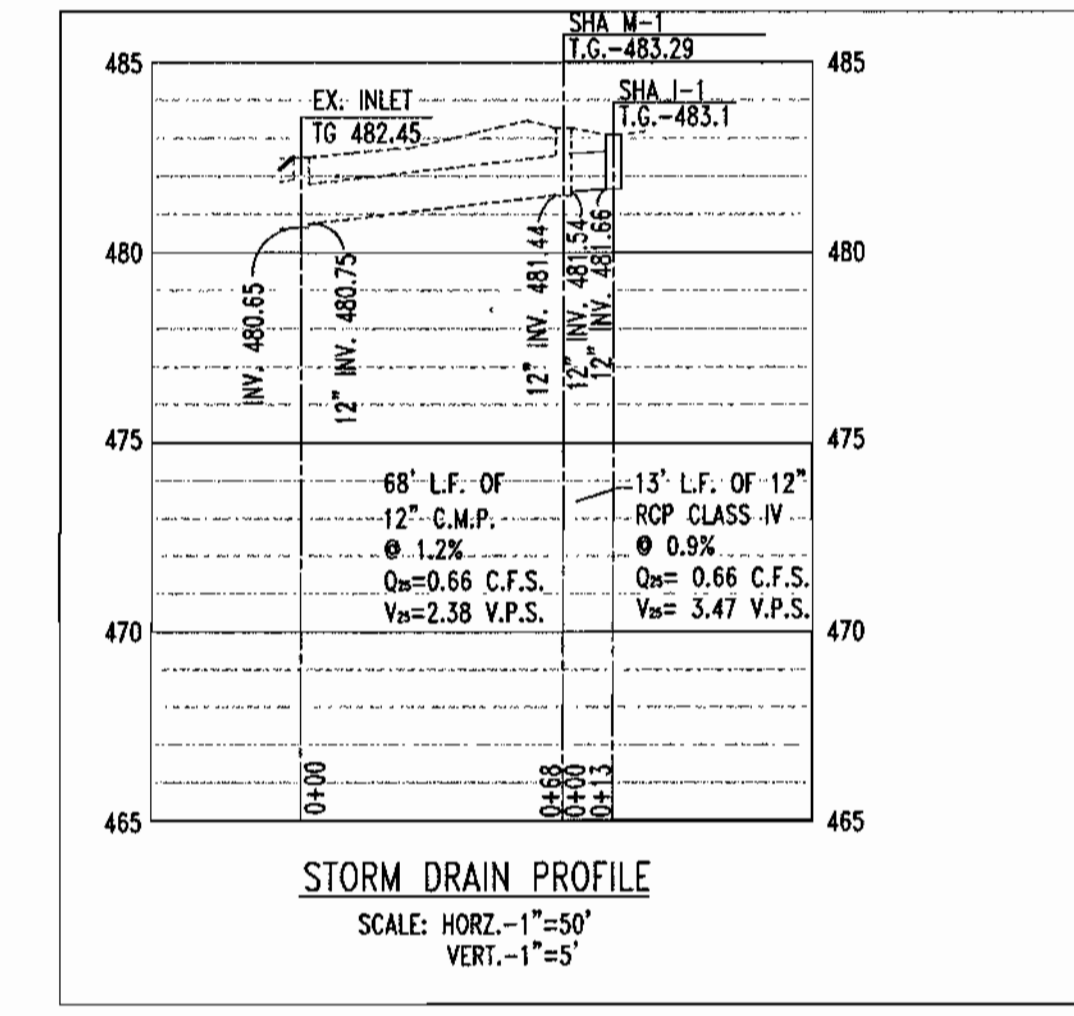
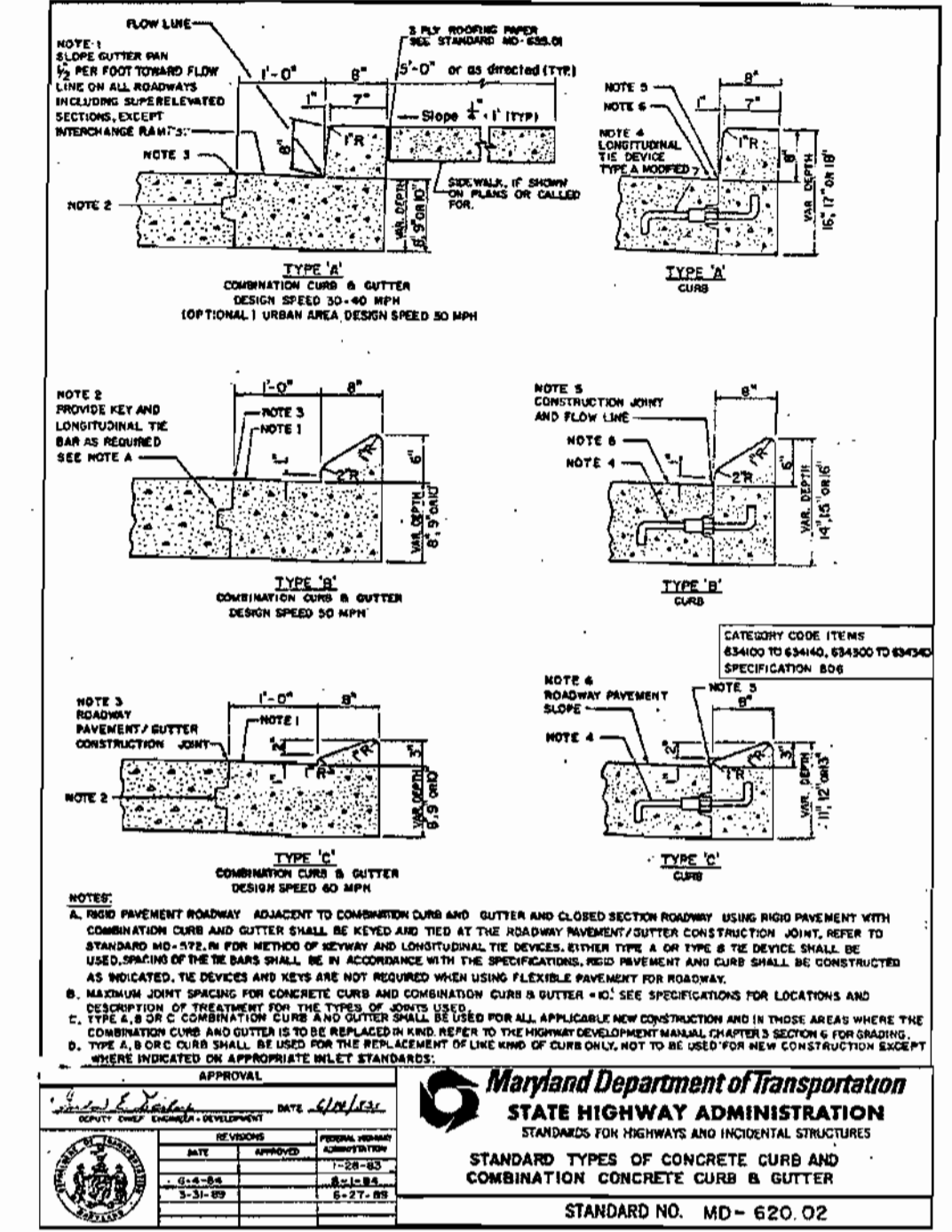
SDP-01-98

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT# OR L/F	487/414	BLOCK#	12	ZONING	B-2
TAX MAP NO.	34	ELECT. DISTR.	5	CENSUS TRACT	6023.03
WATER CODE	111	SEWER CODE	UNAVAILABLE		
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M8600500					
SHELL OIL COMPANY MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
RETAINING WALL DETAILS					
DESIGN BY:	G.H.R.	SCALE:	1"=10'	PROJECT NO.:	MDR8800
DRAWN BY:	R.L.B.	DATE:	10/22/01	DRAWING NUMBER	
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.		15 OF 19



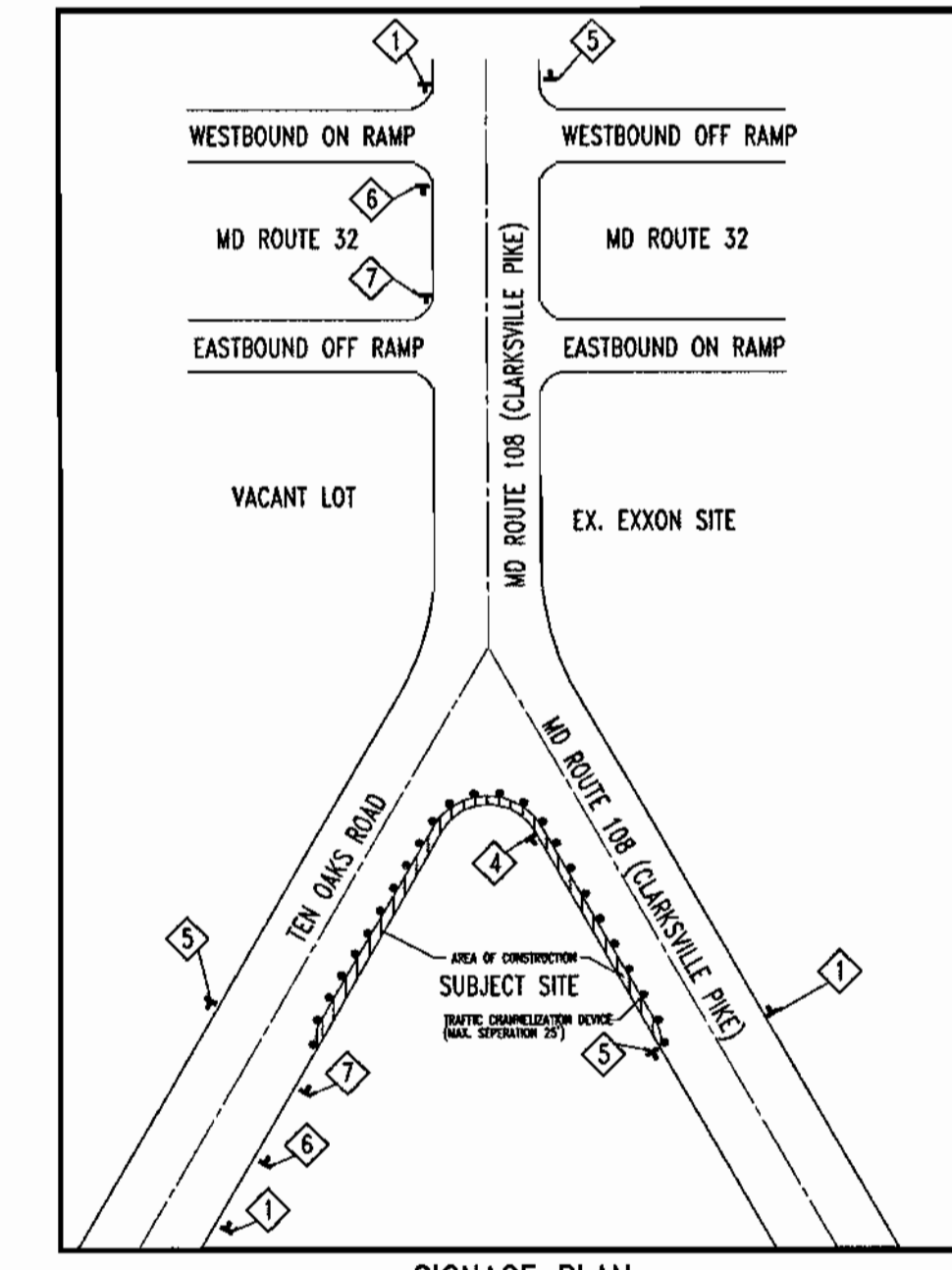
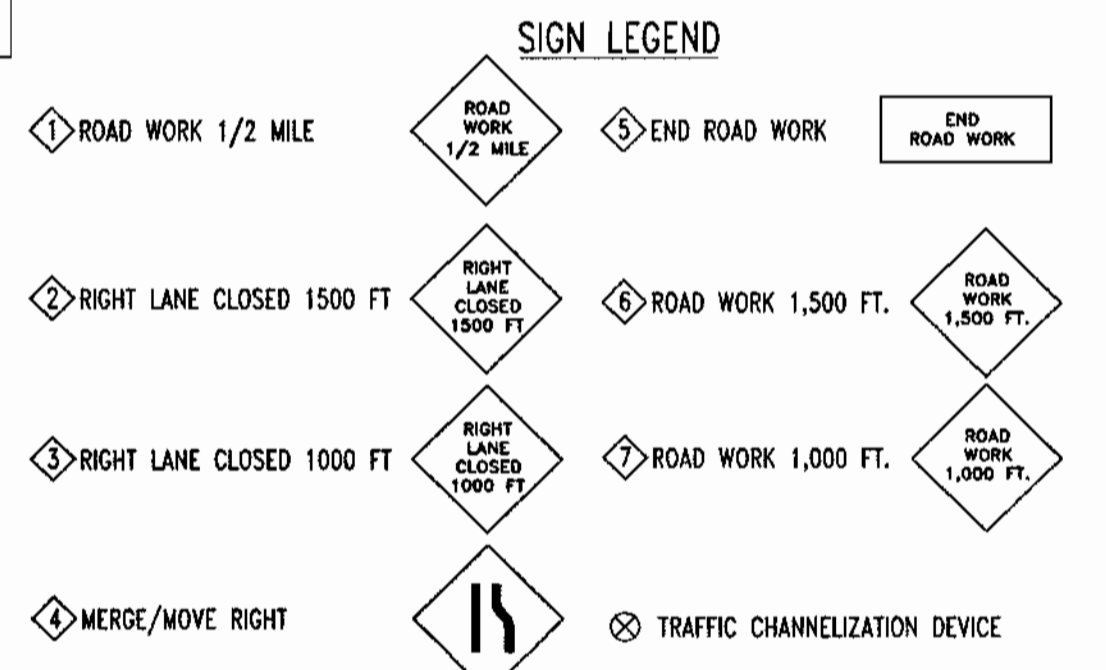
MAINTENANCE OF TRAFFIC GENERAL NOTES

- HOWARD COUNTY AND THE MSHA SHALL BE NOTIFIED AT LEAST 48HRS. PRIOR TO BEGINNING ANY WORK IN ORDER TO SCHEDULE FIELD INSPECTIONS OF THE TRAFFIC CONTROL DEVICES.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH SHA AND HOWARD COUNTY STANDARDS.
- NO WORK SHALL BE PERFORMED IN THE ROADWAY FROM 7-9 AM. AND 4-6 PM.
- TRAVEL LANES SHALL MAINTAIN A 10' MINIMUM WIDTH FLAGMEN AND/OR THE APPROPRIATE SIGNAGE SHALL BE PROVIDED.
- BARRIERS SHALL BE USED TO MARK CHANNELIZED DEVICES ALONG THE CONSTRUCTION AREA.
- IF A DROP MEASURES GREATER THAN 4", A BARRIER OR 2:1 SLOPE OF COMPACTED CR6 GRAVEL SHALL BE REQUIRED.
- ALL OPEN TRENCHES SHALL BE CLOSED AT THE END OF EACH WORKING DAY.
- ALL SIGNS NOT IN USE, OR WHICH DO NOT APPLY SHALL BE COVERED.
- ALL EQUIPMENT AND PERSONNEL SHALL MOVE ACCORDINGLY AS CONSTRUCTION PROGRESSES.
- NO SIGNS SHALL OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
- CONSTRUCTION AND WORKMEN'S VEHICLE'S SHALL NOT BE PARKED IN A MANNER THAT WILL IMPACT TRAFFIC.
- REFER TO SHA ACCESS PERMIT FOR ADDITIONAL REQUIREMENTS.



PAVING LEGEND

- CONCRETE
- SHA ASPHALT OVERLAY
- SHA FULL DEPTH ASPHALT PAVING
- COUNTY ASPHALT OVERLAY
- COUNTY FULL DEPTH ASPHALT PAVING



- NOTES:**
- REFER TO GRADING PLAN SHEET 4 FOR CONTOURS AND SPOT ELEVATION.
 - CONTRACTOR SHALL CLEAN EX. STORM DRAIN PIPE AT THE INTERSECTION OF TEN OAKS & ROUTE 108.
 - CONTRACTOR TO REFER TO GENERAL NOTES FOR TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION MD 104.00-1 FOR ALL TRAFFIC CONTROL NOTES

COUNTY PAVING SPECIFICATIONS

- 1 1/2" BIT. CONC. SURFACE
- 1 1/2" BIT. CONC. BASE
- 5" 3IT. CONC. BASE
- 4" GRADED AGGREGATE BASE (GAB)

COUNTY ROAD WIDENING
(PAVEMENT SECTION P-4 GRANULAR BASE ALTERNATE DETAIL R2.01)

PLAN
SCALE: 1"=20'

SHA PAVING SPECIFICATIONS

- SHA ROAD WIDENING
- 1 1/2" HOT MIX ASPHALT SUPERPAVE 9.5 mm - PG 64-22, LOW ESALS
- 6" HOT MIX ASPHALT SUPERPAVE 19.0 mm FOR BASE - PG 64-22, LOW ESALS (2-3" LIFTS)
- 6" BASE COURSE USING GRADED AGGREGATE
- SHA CONCRETE ENTRANCE
- 8" PLAIN PORTLAND CEMENT PAVEMENT FOR ENTRANCES PROPER

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

DATE: 3/20/02
 DATE: 4/15/02
 DATE: 4/22/02

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

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GREENEACHES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7887 | MD@bohlereng.com

3-14-02
 DATE

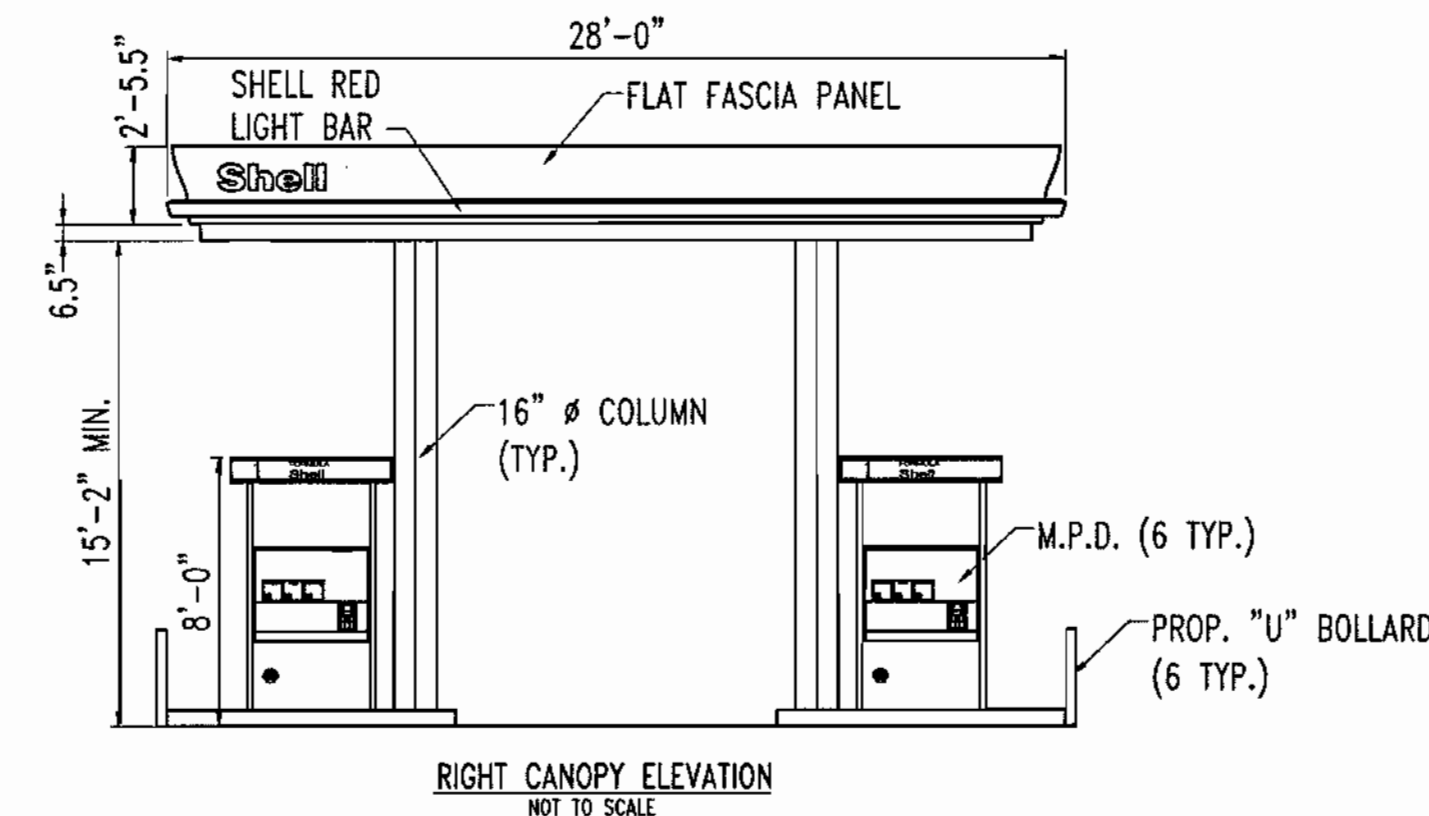
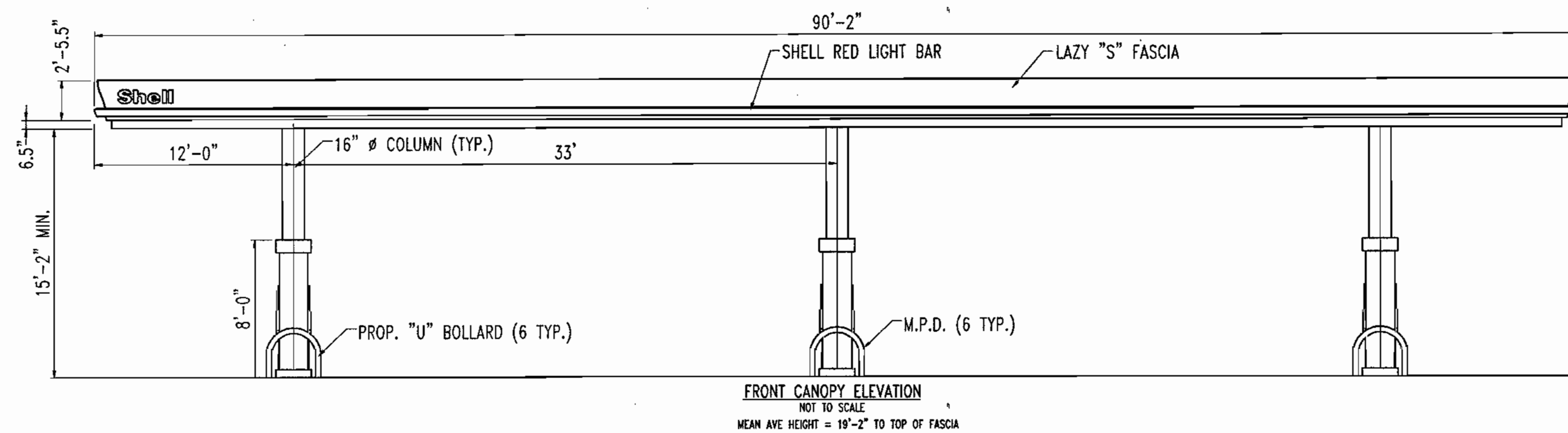
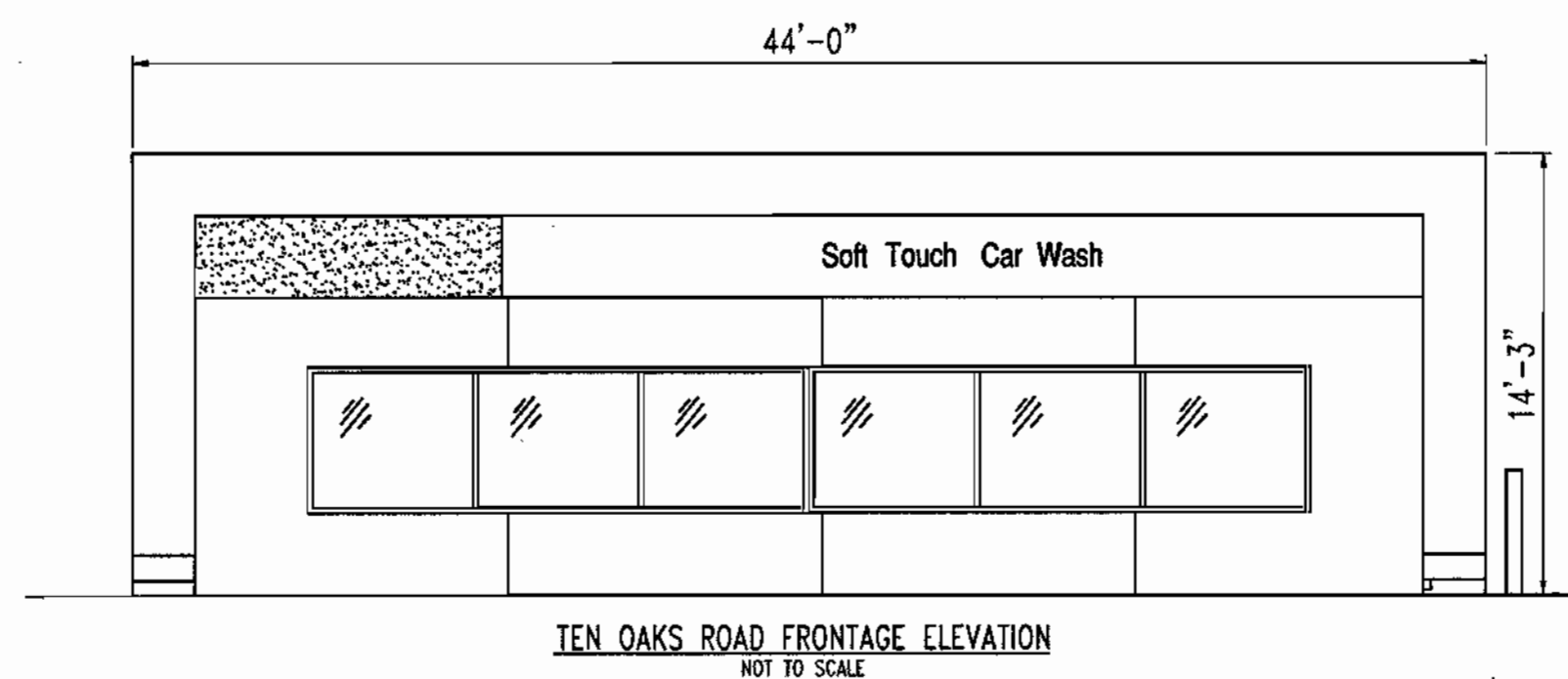
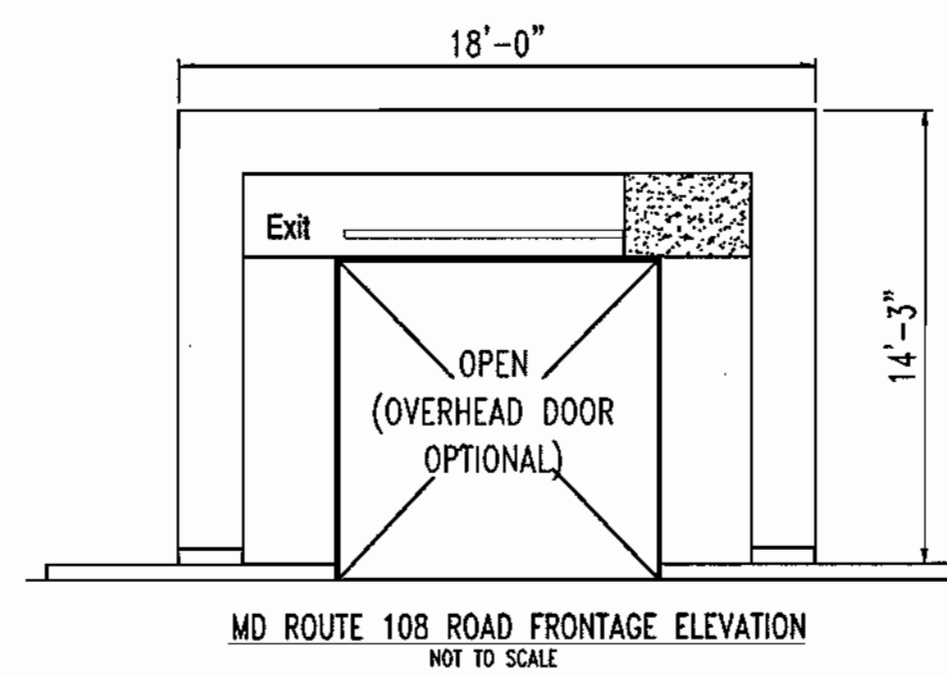
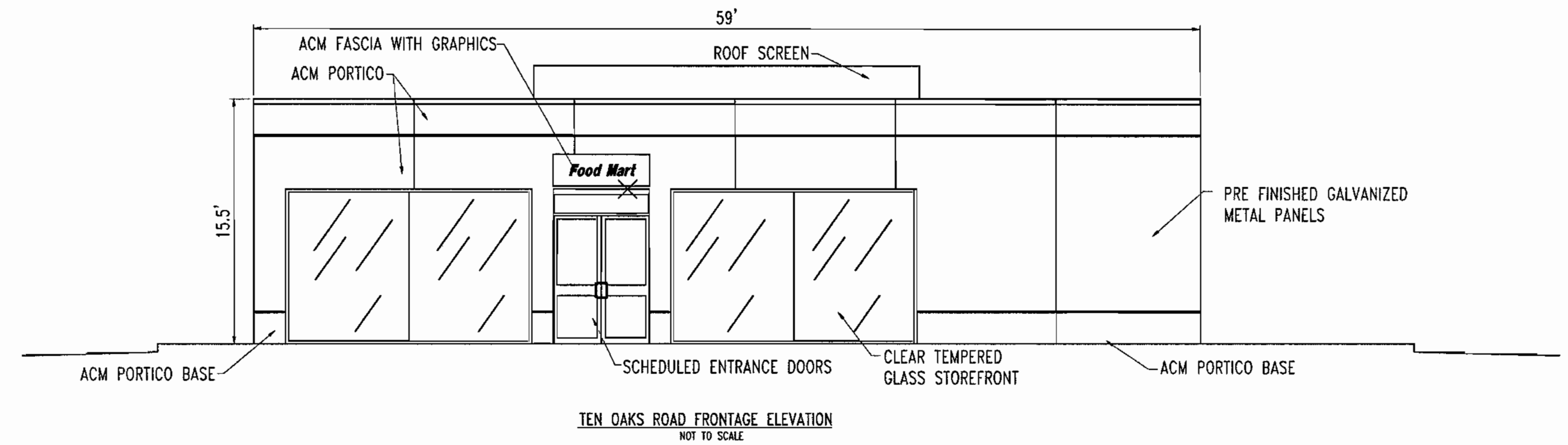
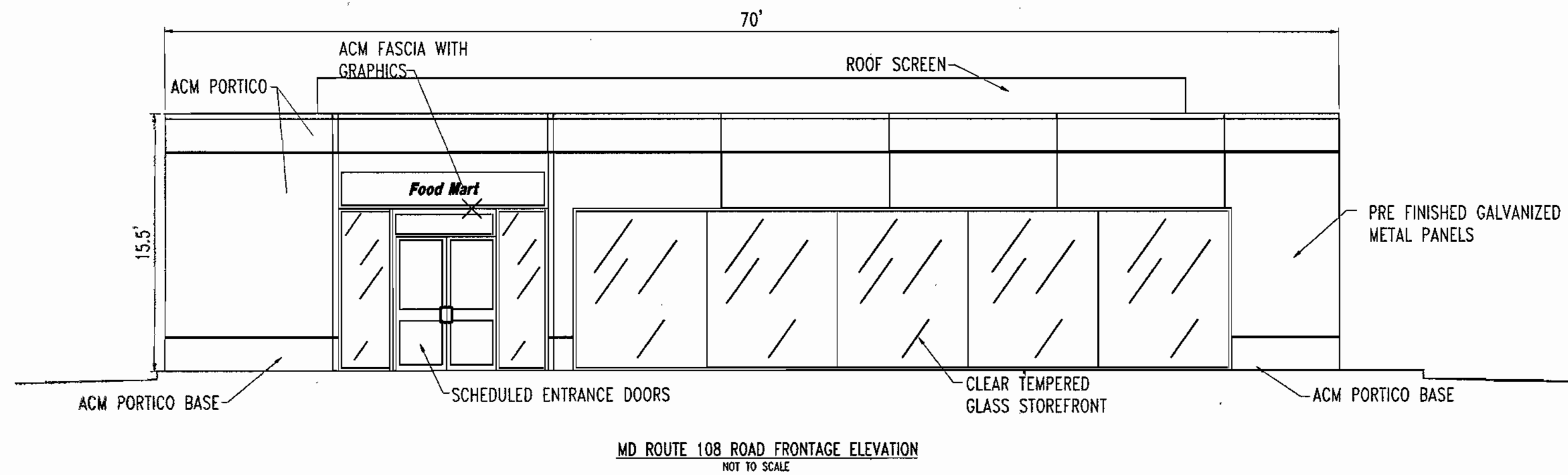
ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

SDP-01-98

PERMIT INFORMATION CHART					
SUBMISSION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT/ OR L/F	457/414	ZONING	B-2	ELECT. DISTR	5
WATER CODE	111	SEWER CODE	UNAVAILABLE	CENSUS TRACT	6023.03
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M8600SHO FOR A SHELL STATION LOCATED AT MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
ROAD IMPROVEMENT PLAN					
DESIGN BY: G.H.R.	SCALE: 1"=20'	PROJECT NO.: M86000			
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER			
CHECKED BY: A.J.V.	APPROVED: A.J.V.	17 OF 19			



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 CHIEF-DIVISION & LAND DEVELOPMENT
 DIRECTOR
 DATE: 3/26/02
 DATE: 4/15/02
 DATE: 4/17/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 4/3/02

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 521-7900 FAX: (410) 521-7987 | MD@bholtereng.com

3-14-02
 DATE
 STATE OF MARYLAND
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

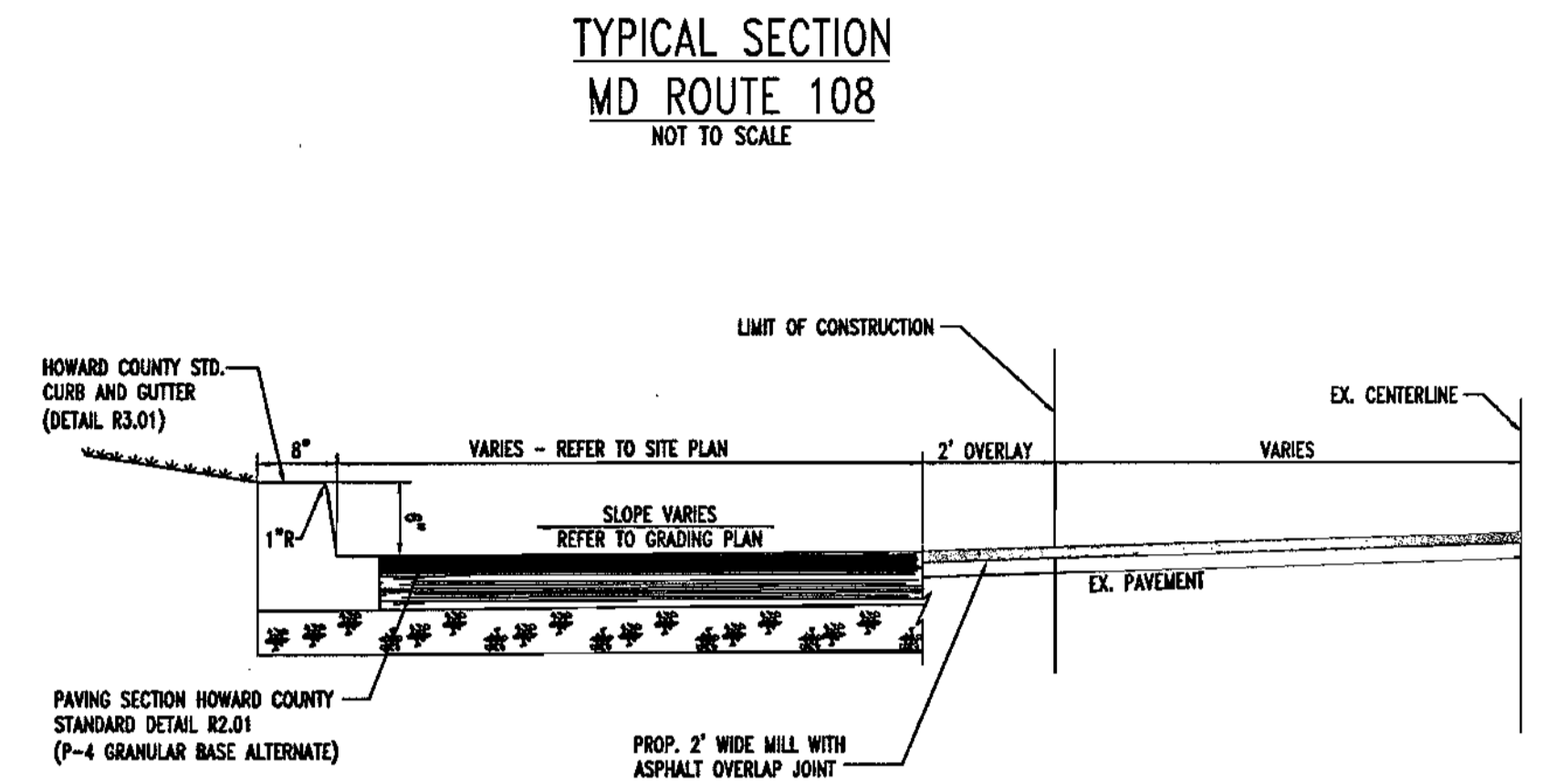
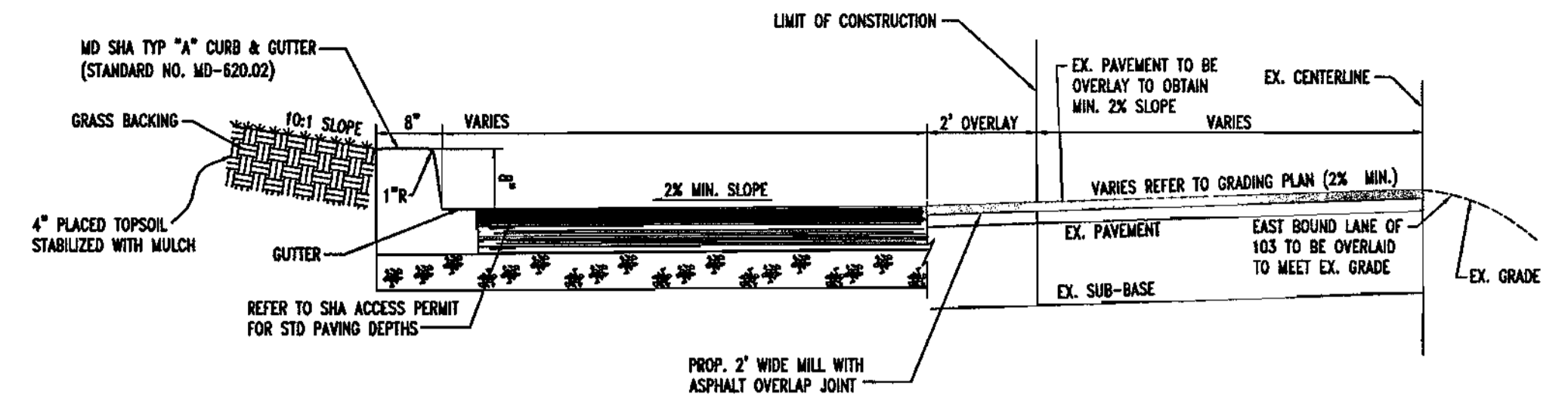
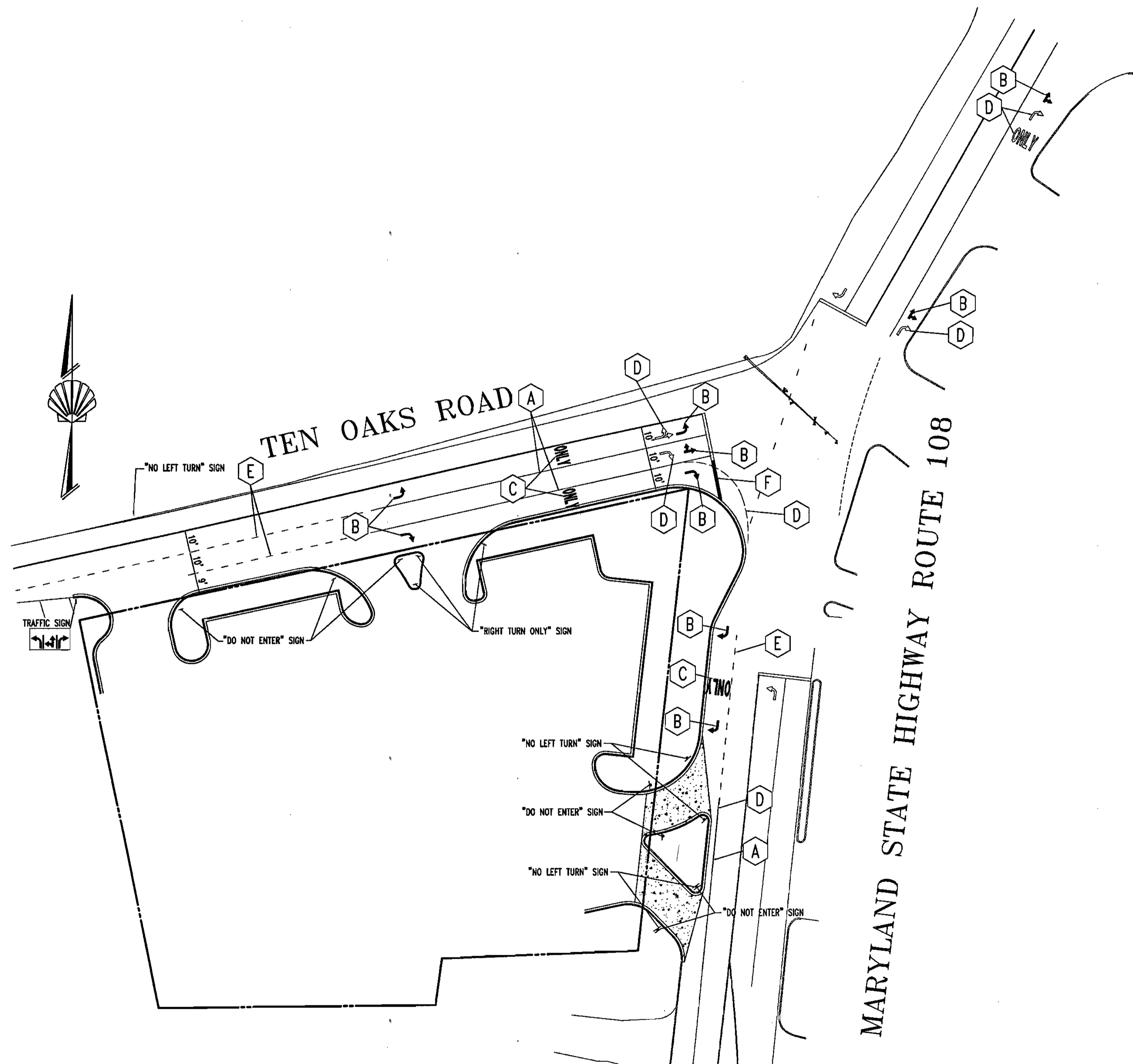
OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN.: CLARENCE LEE
 PHONE: (703)-259-2029

PERMIT INFORMATION CHART				
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.
PLAT/ OR L/F	467/414	BLOCK	12	33 & 93
ZONING	B-2	TAX MAP NO.	34	ELECT. DISTR
WATER CODE	111	SEWER CODE	UNAVAILABLE	CENSUS TRACT
ADDRESS CHART				
LOT/PARCEL #	STREET ADDRESS			
PARCEL 33 & 93	6390 TEN OAKS ROAD			
TITLE: M600500				
SHELL OIL COMPANY MD ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029				
ELEVATIONS				
DESIGN BY: G.H.R.	SCALE: AS SHOWN	PROJECT NO.: M088600		
DRAWN BY: R.L.B.	DATE: 10/22/01	DRAWING NUMBER		
CHECKED BY: A.J.V.	APPROVED: A.J.V.	18 OF 19		

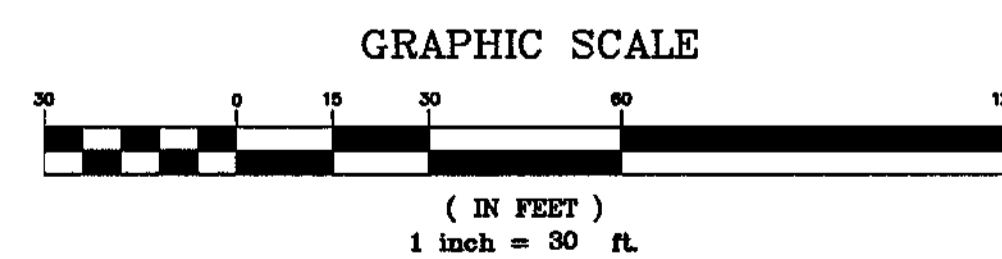
SDP-01-98

SDP-01-98



PAVEMENT MARKING LEGEND

- A** INSTALL 5" SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- B** INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
- C** INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ONLY
- D** DENOTES EXISTING PAVEMENT MARKINGS TO BE REMOVED
- E** INSTALL 5" SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- F** INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING STOP BAR (TO MATCH EXISTING)



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/26/02
 CHIEF-DIVISION & LAND DEVELOPMENT
 DATE: 4/15/02
 DIRECTOR
 DATE: 7/1/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 DATE: 4/3/02
 HOWARD COUNTY HEALTH DEPARTMENT

BOHLER ENGINEERING
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX: (410) 821-7987 | MD@bohlereng.com

3-14-02
 DATE
 STATE OF MARYLAND
 ADAM J. VOLANTH
 PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY



BEFORE YOU DIG CALL 1-800-367-7277
 PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
 THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPLICABLE.
 THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES 48 HOURS PRIOR TO ANY CONSTRUCTION.

OWNER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029

DEVELOPER:
MOTIVA ENTERPRISES, LLC
 3800 PICKETT ROAD
 FAIRFAX, VA. 22031
 ATTN: CLARENCE LEE
 PHONE: (703)-259-2029

SDP-01-98

PERMIT INFORMATION CHART					
SUBDIVISION NAME	N/A	SECTION/AREA	N/A	LOT/PARCEL NO.	33 & 93
PLAT # OR L/F	467/414	BLOCK#	12	ZONING	B-2
TAX MAP NO.	34	ELECT. DIST.	5	CENSUS TRACT	6023.03
WATER CODE	111	SEWER CODE	UNAVAILABLE		
ADDRESS CHART					
LOT/PARCEL #	STREET ADDRESS				
PARCEL 33 & 93	6390 TEN OAKS ROAD				
TITLE: M6R00SS0 SHELL OIL COMPANY NO ROUTE 108 AND TEN OAKS ROAD CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029					
PAVEMENT MARKING PLAN					
DESIGN BY:	G.H.R.	SCALE:	1"=30'	PROJECT NO.:	MDS8600
DRAWN BY:	R.L.B.	DATE:	10/22/01	DRAWING NUMBER	
CHECKED BY:	A.J.V.	APPROVED:	A.J.V.		19 OF 19

SDP-01-98