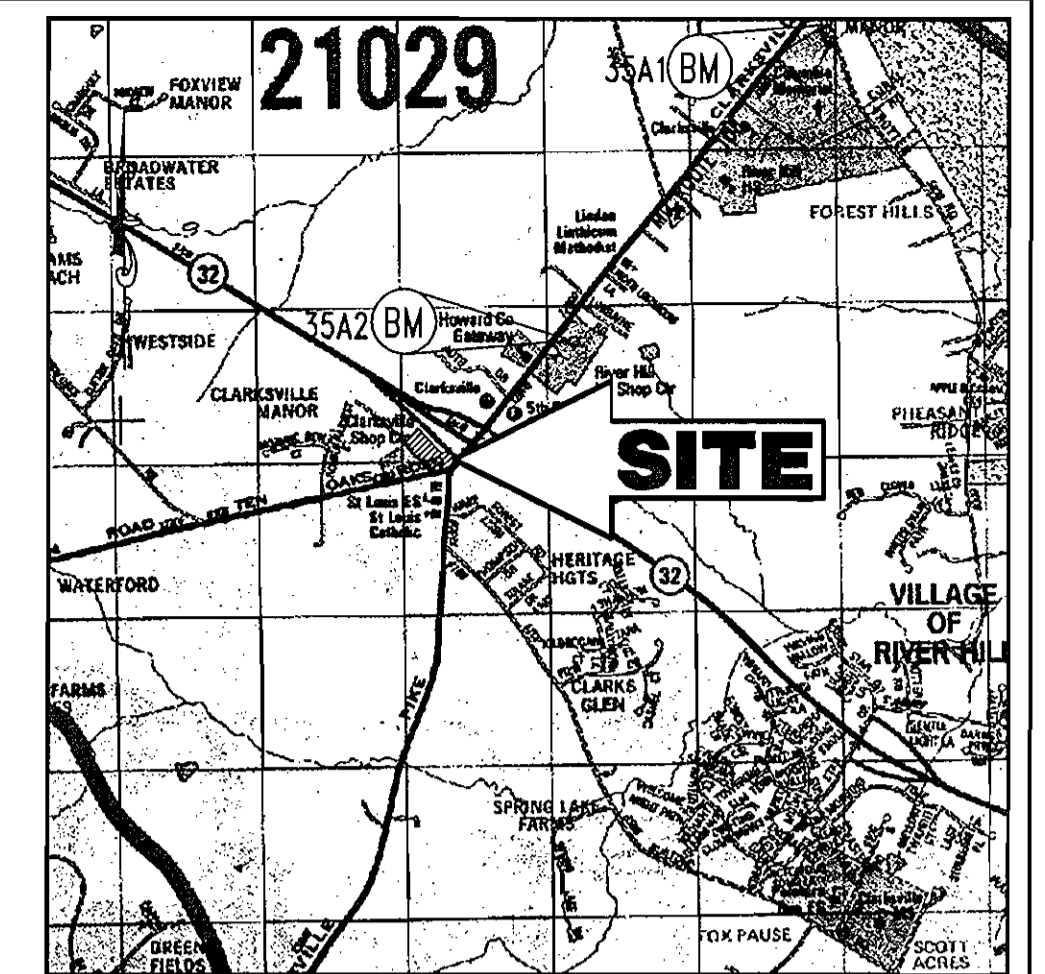


ANTWERPEN AUTOMOTIVE SITE DEVELOPMENT PLANS

**12400 CLARKSVILLE PIKE
TAX MAP 34, GRID 12, PARCELS A, B-1, C-1
CLARKSVILLE
HOWARD COUNTY, MARYLAND, 21029**



LOCATION MAP
COPYRIGHT AND THE MAP PEOPLE
PERMIT USE NO. 20694276
SCALE: 1"=200'

BENCHMARK INFORMATION

NAIL 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 35A2
CONCRETE MONUMENT ON THE EAST SIDE OF MD RTE. 108 ACROSS FROM THE CLARKSVILLE LEARNING CENTER.

LEGEND

EXISTING	PROPOSED
ON-SITE PROPERTY LINE / R.O.W. LINE	ON-SITE PROPERTY LINE / R.O.W. LINE
NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE
EASEMENT LINE	EASEMENT LINE
BUILDING/PARKING SETBACK LINE	BUILDING/PARKING SETBACK LINE
R.O.W. CENTERLINE	R.O.W. CENTERLINE
SANITARY SEWER MAIN	SANITARY SEWER MAIN
SANITARY SEWER LATERAL	SANITARY SEWER LATERAL
STORM SEWER	STORM SEWER
WATER LINE	WATER LINE
GAS LINE	GAS LINE
UG ELECTRIC LINE	UG ELECTRIC LINE
UG TELEPHONE LINE	UG TELEPHONE LINE
OH WIRE	OH WIRE
UG CABLE LINE	UG CABLE LINE
LIGHTING ISOLUX LINE	LIGHTING ISOLUX LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CONCRETE CURB	CONCRETE CURB
CONCRETE CURB & GUTTER	CONCRETE CURB & GUTTER
BUILDING LINE	BUILDING LINE
STORM/SANITARY SEWER FLOW ARROW	STORM/SANITARY SEWER FLOW ARROW
SURFACE DRAINAGE FLOW ARROW	SURFACE DRAINAGE FLOW ARROW
TC PATH	TC PATH
DRAINAGE DIVIDE	DRAINAGE DIVIDE
INDEX CONTOUR LINE	INDEX CONTOUR LINE
INTERMEDIATE CONTOUR LINE	INTERMEDIATE CONTOUR LINE
SPOT ELEVATION	SPOT ELEVATION
RIP RAP	RIP RAP
FLARED END SECTION	FLARED END SECTION
HEADWALL OR END WALL	HEADWALL OR END WALL
IRON ROD / PIPE	IRON ROD / PIPE
R.O.W. MONUMENT	R.O.W. MONUMENT
BENCHMARK	BENCHMARK
MANHOLE	MANHOLE
YARD INLET	YARD INLET
CURB INLET	CURB INLET
GRATE INLET	GRATE INLET
STORM STRUCTURE NO. LABEL	STORM STRUCTURE NO. LABEL
DECORATIVE AREA LIGHT	DECORATIVE AREA LIGHT
AREA / YARD LIGHT	AREA / YARD LIGHT
CLEAN OUT	CLEAN OUT
HYDRANT	HYDRANT
WATER METER	WATER METER
WATER VALVE	WATER VALVE
GAS VALVE	GAS VALVE
UTILITY POLE	UTILITY POLE
TRAFFIC SIGNAL	TRAFFIC SIGNAL
SIGN	SIGN
TYPICAL NOTE TEXT	TYPICAL NOTE TEXT
TYPICAL METES & BOUNDS DESCRIPTION TEXT	TYPICAL METES & BOUNDS DESCRIPTION TEXT
BORING	BORING

SHEET INDEX

- COVER SHEET
- EXISTING CONDITIONS AND DEMOLITION PLAN
- SITE PLAN
- HOWARD COUNTY ROAD IMPROVEMENT PLAN
- GRADING & UTILITY PLAN
- EROSION & SEDIMENT CONTROL PLAN PHASE I
- EROSION & SEDIMENT CONTROL PLAN PHASE II
- EROSION & SEDIMENT CONTROL DETAILS
- EROSION & SEDIMENT CONTROL DETAILS
- FOREST CONSERVATION & LANDSCAPE PLAN
- FOREST CONSERVATION & LANDSCAPE DETAILS
- SWM DRAINAGE AREA MAPS
- STORMDRAIN DRAINAGE AREA MAPS
- SWM NOTES AND DETAILS
- SWM NOTES AND DETAILS
- UTILITY PROFILES
- LIGHTING PLAN
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- SHA ROAD IMPROVEMENT PLAN
- SITE DISTANCE ANALYSIS PLAN
- MAINTENANCE OF TRAFFIC PLAN

SITE ANALYSIS DATA CHART

PROJECT AREA: PARCEL A = 0.735 ACRES = 32,011 S.F.
PARCEL B-1 = 0.438 ACRES = 19,100 S.F.
PARCEL C-1 = 1.987 ACRES = 86,532 S.F.
TOTAL AREA = 3,160 AC. OR 137,643 S.F.
LIMIT OF DISTURBED AREA: 137,859 S.F. (3,160 AC.)

PRESENT ZONING: B-2 (GENERAL BUSINESS DISTRICT)
PROPOSED USE: AUTOMOBILE SALES FACILITY
FLOOR AREA: 535,50 S.F.
MAXIMUM NUMBER OF EMPLOYEES: 6
PARKING SPACES REQUIRED: 84
PARKING SPACES PROVIDED: 260 (INCLUDING 7 HANDICAP SPACES)
OPEN SPACE ON-SITE: 1.060 ACRES AND 34% OF GROSS AREA
BUILDING COVERAGE OF SITE: 0.011 ACRES (0.3% OF GROSS AREA)
APPLICABLE DPZ FILE REFERENCES: F-76-01, SDP-03-97, F-03-173, SDP-01-040, F-06-192

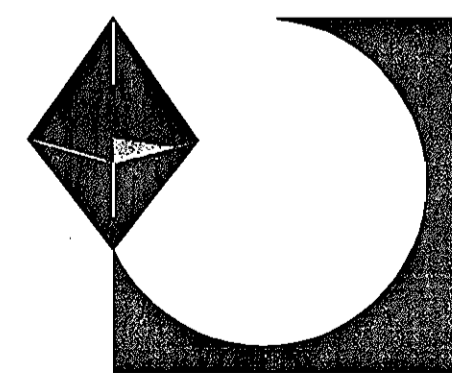
GENERAL NOTES:

- THIS PLAN REFERENCES A SURVEY BY CONTROL POINT ASSOCIATES: GWYNEDD CORPORATE CENTER 1120 WELSH ROAD, SUITE 200 NORTH WALES, PA 19454 ENTITLED: ALTA/ACSM LAND TITLE SURVEY BP PRODUCTS NORTH AMERICAN, INC. ROUTE 108 AND TEN OAKS ROAD TAX MAP 34 GRID 12 PARCELS A, B-1, C-1 CLARKSVILLE, 5TH ELECTION DISTRICT HOWARD COUNTY, MD DATED: 1/14/2004 PROJECT NO: S032001.SR
- THE SUBJECT PROPERTY IS ZONED B-2 PER THE FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN.
- EXISTING USE: VACANT LOT WITH BUILDING AND PARKING FACILITIES PROPOSED USE: AUTOMOBILE SALES FACILITY
- BUILDING HEIGHT: NOT TO EXCEED 40' (ACTUAL HEIGHT 10'±).
- PARKING: REQUIRED - VEHICLE SALES: TWO SPACES/1,000 SF OF BUILDING SALES AREA 2 x (535.5/1,000) = 1 SPACE ONE SPACE/1,000 SF OF DISPLAY AREA 1 x (82,817/1,000 SF) = 83 SPACES TOTAL PARKING REQUIRED = 84 SPACES TOTAL PARKING PROVIDED = 260 SPACES (INCLUDING 7 HANDICAP SPACES) CUSTOMER PARKING 11 DISPLAY PARKING 249
- REFUSE SHALL BE DISPOSED OF DAILY IN TRASH RECEPTACLES. TRASH REMOVAL WILL BE PRIVATELY CONTRACTED.
- SETBACKS: TEN OAKS ROAD: 30' USE & STRUCTURE SETBACK 10' PARKING SETBACK MD ROUTE 108: 30' USE & STRUCTURE SETBACK 10' PARKING SETBACK MD ROUTE 32: 30' USE & STRUCTURE SETBACK 10' PARKING SETBACK REAR: 30' USE & STRUCTURE SETBACK

UTILITY CONTACTS:

HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
MISS UTILITY (800) 257-7777
VERIZON (410) 725-9976
HOWARD COUNTY BUREAU OF UTILITIES (410) 313-2366
COMCAST CABLE (410) 393-3553
BGE (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.

- THERE SHALL BE NO WASTE MATERIALS STORED ON SITE.
- LIGHTING SHALL BE SHIELDED AND DIRECTED SO THAT IT DOES NOT SHINE DIRECTLY ONTO ANY ADJACENT PROPERTIES, IT SHALL NOT ILLUMINATE RESIDENTIAL PROPERTIES AND SHALL NOT PRODUCE GLARE WHICH WOULD CAUSE A HAZARD FOR MOTOR VEHICLE OPERATIONS IN THE VICINITY OF THE SITE. LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS.
- UTILITIES:
WATER, PUBLIC - EXISTING 8" WATER LINE (CONTRACT # 44-3483) IS LOCATED ON THE SOUTH SIDE OF TEN OAKS ROAD WITH A PROPOSED 1" CONNECTION FOR THIS SITE.
SEWER, PUBLIC - AN 8" SANITARY SEWER LINE (CONTRACT # 30-3770) IS LOCATED IN THE MD 108 RIGHT-OF-WAY. APPLICANT WILL BE REQUIRED TO MAKE CONNECTION.
STORM DRAIN - A 12" STORM DRAINAGE LINE IS SITUATED AT THE CORNER OF TEN OAKS ROAD AND MD 108 AND OUTLETS INTO THE MD 32 R.O.W.
- HOWARD COUNTY STORM WATER QUANTITY AND QUALITY REQUIREMENTS WILL BE MET. AN UNDER GROUND DETENTION FACILITY WILL BE CONSTRUCTED TO PROVIDE QUANTITY MANAGEMENT FOR CHANNEL PROTECTION (Cov) AND WILL ADEQUATELY CONVEY THE 10-YEAR AND 100-YEAR STORMS. A PERIMETER SAND FILTER WILL BE PROVIDED FOR WATER QUALITY MANAGEMENT. A STONE RECHARGE TRENCH IS PROVIDED FOR RECHARGE VOLUME (REV.) MANAGEMENT. THE MAINTENANCE AND OWNERSHIP OF THE SWM FACILITY SHALL BE OF THE PROPERTY OWNER.
- ELECTION DISTRICT: 5
- PLAT REFERENCE: PARCEL A: PLAT NO(S). 18588-89
PARCEL B-1: PLAT NO(S). 18588-89
PARCEL C-1: PLAT NO(S). 18588-89
- TAX MAP: 34, GRID: 12, PARCELS: A, B-1, C-1
- PROPERTY IS LOCATED IN THE CLARKSVILLE AREA.
- PROPERTY IS OUTSIDE THE 100-YEAR FLOOD PLAIN (FEMA FIRM# 240044 0032 B MAP 12/4/86).
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND USHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.



PREPARED BY:

BOHLER ENGINEERING, P.C.

810 GLENEAGLES COURT, SUITE 300

TOWSON, MARYLAND 21286

(410) 821-7900

ATTN: MATTHEW T. ALLEN, P.E.

MISS UTILITY



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

ADDRESS CHART			
LOT/PARCEL #	STREET ADDRESS		
A	12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY 21029		
B-1	12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY 21029		
C-1	12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY 21029		
PERMIT INFORMATION CHART			
PROJECT NAME	SECTION/AREA	LOT/PARCEL NO.	
ANTWERPEN AUTOMOTIVE	A, B-1, C-1	A, B-1, C-1	
PLAT RECORDATION BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR.
18588-89	B-2	34	5th
CENSUS TRACT	SEWER CODE	DATE	
6023.02	6653000	07/06/2006	

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/25/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 APPROVED: DEPARTMENT OF PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/20/06
 CHIEF-DIVISION OF LAND DEVELOPMENT
[Signature] 10/20/06
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/20/06
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS		DEVELOPER
PARCEL A		JACOB M. ANTWERPEN
ANTOY, LLC		6631 BALTIMORE NATIONAL PIKE
12400 ROUTE 108		BALTIMORE, MARYLAND 21228
CLARKSVILLE, MARYLAND 21029		ATTN: JACOB ANTWERPEN
PARCEL B-1		Jacob Antwerpen
ANTSTORE, LLC		6389 TEN OAKS ROAD
CLARKSVILLE, MARYLAND 21029		
PARCEL C-1		
ANTWERPEN, JACOB M		
6381 NW TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34, GRID 12, PARCELS A, B-1 and C-1
 Plots No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

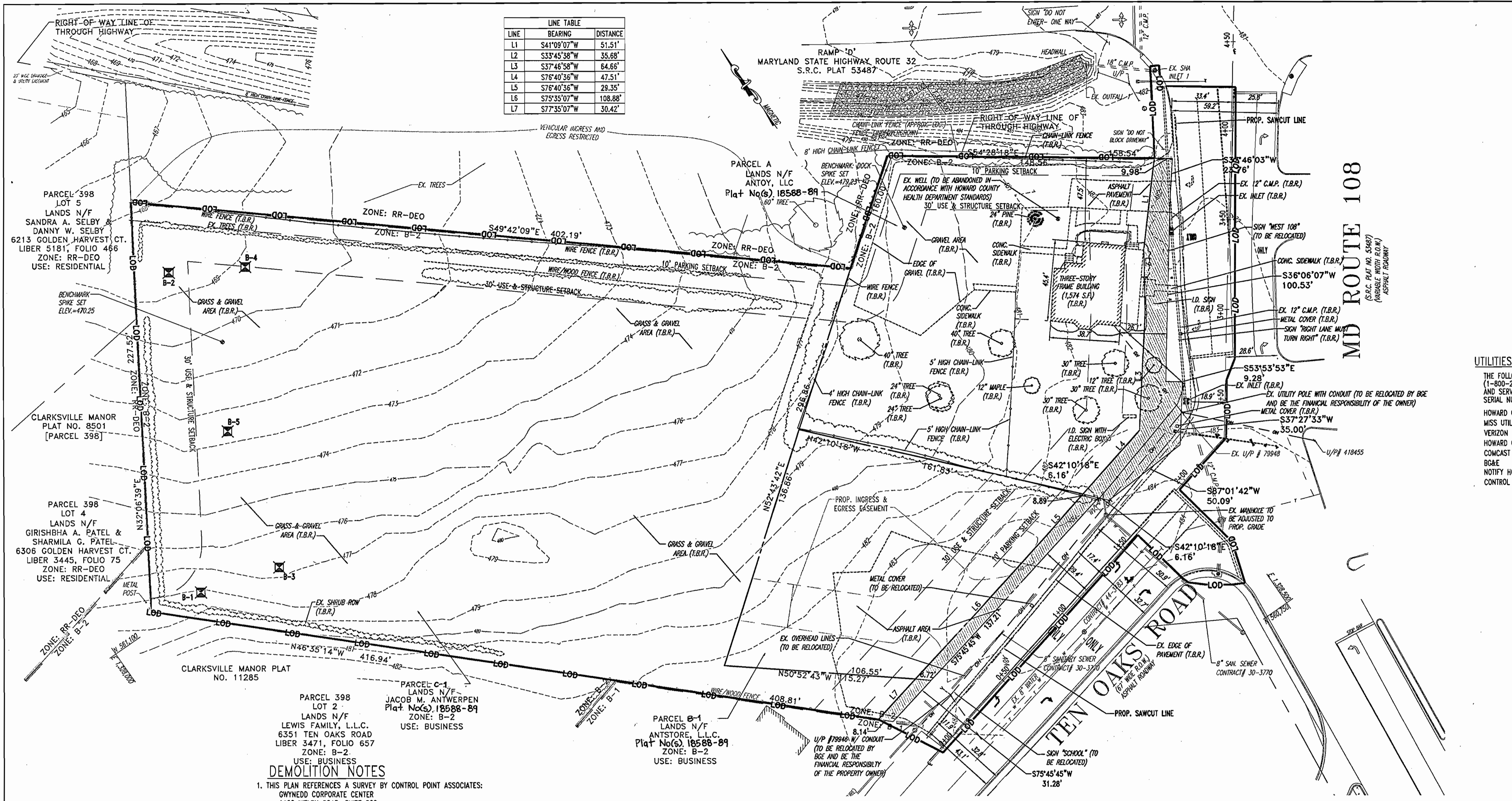
TITLE: COVER SHEET

BOHLER ENGINEERING, P.C.

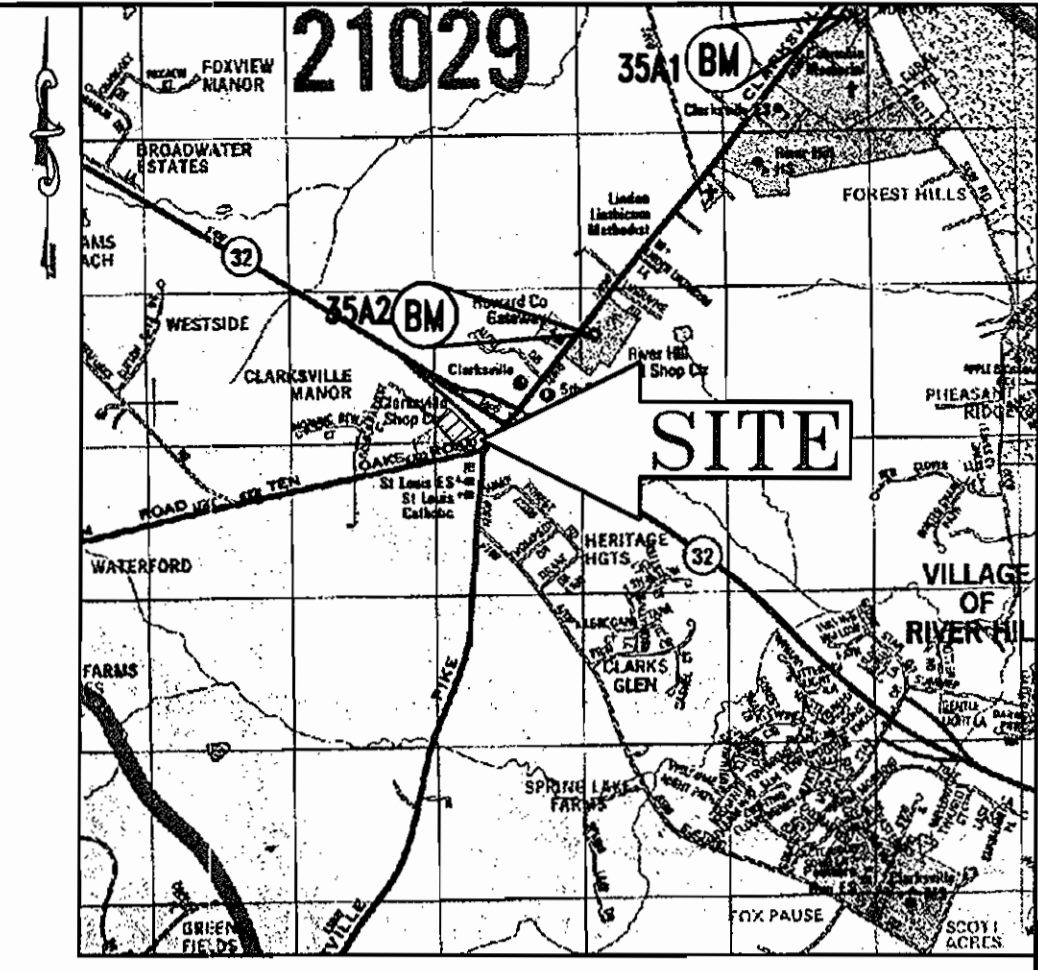
PROFESSIONAL ENGINEERING SERVICES
 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
 (410) 821-7900 FAX (410) 821-7907 | www.bohlereng.com

DATE: 10/17/06
 DESIGNED BY: J.J.U.
 DRAWN BY: J.J.L.
 PROJECT NO.: M0032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 MATTHEW T. ALLEN
 PROFESSIONAL ENGINEER NO. 28567
 DRAWING NO. 1 OF 22

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 CONTRACTORS RESPONSIBILITY TO NOTIFY BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.



LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
L4	S76°40'36"W	47.51'
L5	S76°40'36"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'



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

UTILITIES:
 THE FOLLOWING COMPANIES WERE NOTIFIED BY THE MARYLAND MISS UTILITY SYSTEM (1-800-257-7777) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS SERIAL NUMBER(S): 424933 & 424991

HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
 MISS UTILITY (800) 257-7777
 VERIZON (410) 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES (410) 313-2366
 COMCAST CABLE (410) 393-3553
 BG&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.

LEGEND
 B-5 SOIL BORING
 ZONING SEPARATION LINE

DEMOLITION NOTES

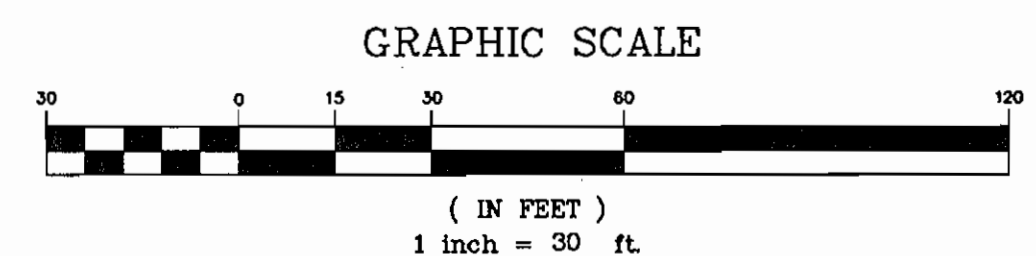
- THIS PLAN REFERENCES A SURVEY BY CONTROL POINT ASSOCIATES: GWYNEDD CORPORATE CENTER 1120 WELSH ROAD, SUITE 200 NORTH WALES, PA 19454 ENTITLED: ALTA/ACSM LAND TITLE SURVEY BP PRODUCTS NORTH AMERICAN, INC. ROUTE 108 AND TEN OAKS ROAD TAX MAP 34 GRID 12 PARCEL 35 CLARKSVILLE, 5TH ELECTION DISTRICT HOWARD COUNTY, MD DATED: 1/14/2004 PROJECT NO: S032001.SR
- BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION.
- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO BOHLER ENGINEERING, P.C. IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
 - ENSURING THAT COPIES OF ALL APPLICABLE PERMITS AND APPROVALS ARE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
 - INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL AND/OR TREE PROTECTION MEASURES PRIOR TO SITE DISTURBANCE.
 - LOCATING (VERTICALLY AND HORIZONTALLY) ALL UTILITIES AND SERVICES, INCLUDING, BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
 - PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEM THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.
 - COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
 - A COMPLETE INSPECTION FOR CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.

- BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
- IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL" AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS - OF - WAY.
- CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
- DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE APPLICABLE PROPERTY OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
- USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.

- CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.

- NOTES:**
- LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND 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 ASBUILT PLANS AND UTILITY MARK OUTS DO NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATIONS ARE TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATIONS, SIZE AND TYPE BY THE PROPER UTILITY COMPANY AND OR CONTRACTOR.
 - ELEVATIONS ARE BASED UPON NGVD 1929 DATUM, REF. HOWARD COUNTY CONTROL STATIONS 35A1 & 35A2. MARYLAND STATE PLANE GRID NORTH REFERENCES HOWARD COUNTY SURVEY CONTROL STATIONS 35A1 & 35A2, NAD83.
 - PROPERTY IS LOCATED IN FLOOD HAZARD ZONE "C" (AREA OF MINIMAL FLOODING PER MAP ENTITLED "NATIONAL FLOODING INSURANCE PROGRAM" FIRM-FLOOD INSURANCE RATE MAP, HOWARD COUNTY, MARYLAND, PLAN 32 OF 45", COMMUNITY-PANEL NUMBER 24004A 0032 B, MAP REVISED 12-4-86.

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.



MISS UTILITY
 BEFORE YOU DIG CALL 1-800-257-7777
 PROTECT YOURSELF. GIVE TWO 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 APPROPRIATE.
 THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
M. Williams 10/17/06
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 DATE

APPROVED: DIVISION OF LAND DEVELOPMENT
C. Williams 11/6/06
 CHIEF-DIVISION OF LAND DEVELOPMENT
 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Robert J. Walker 11/6/06
 HEALTH DEPARTMENT OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE

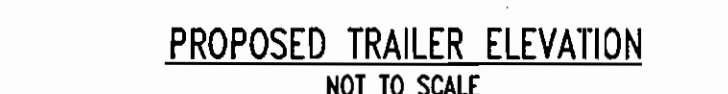
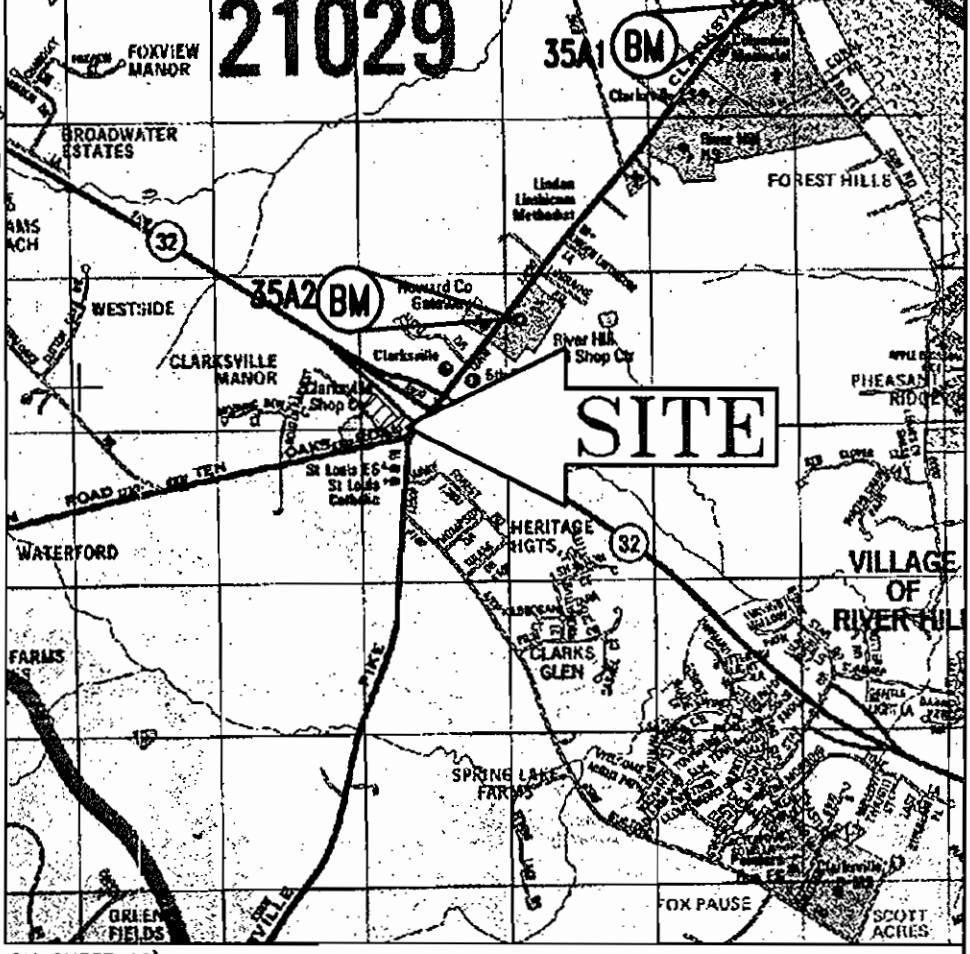
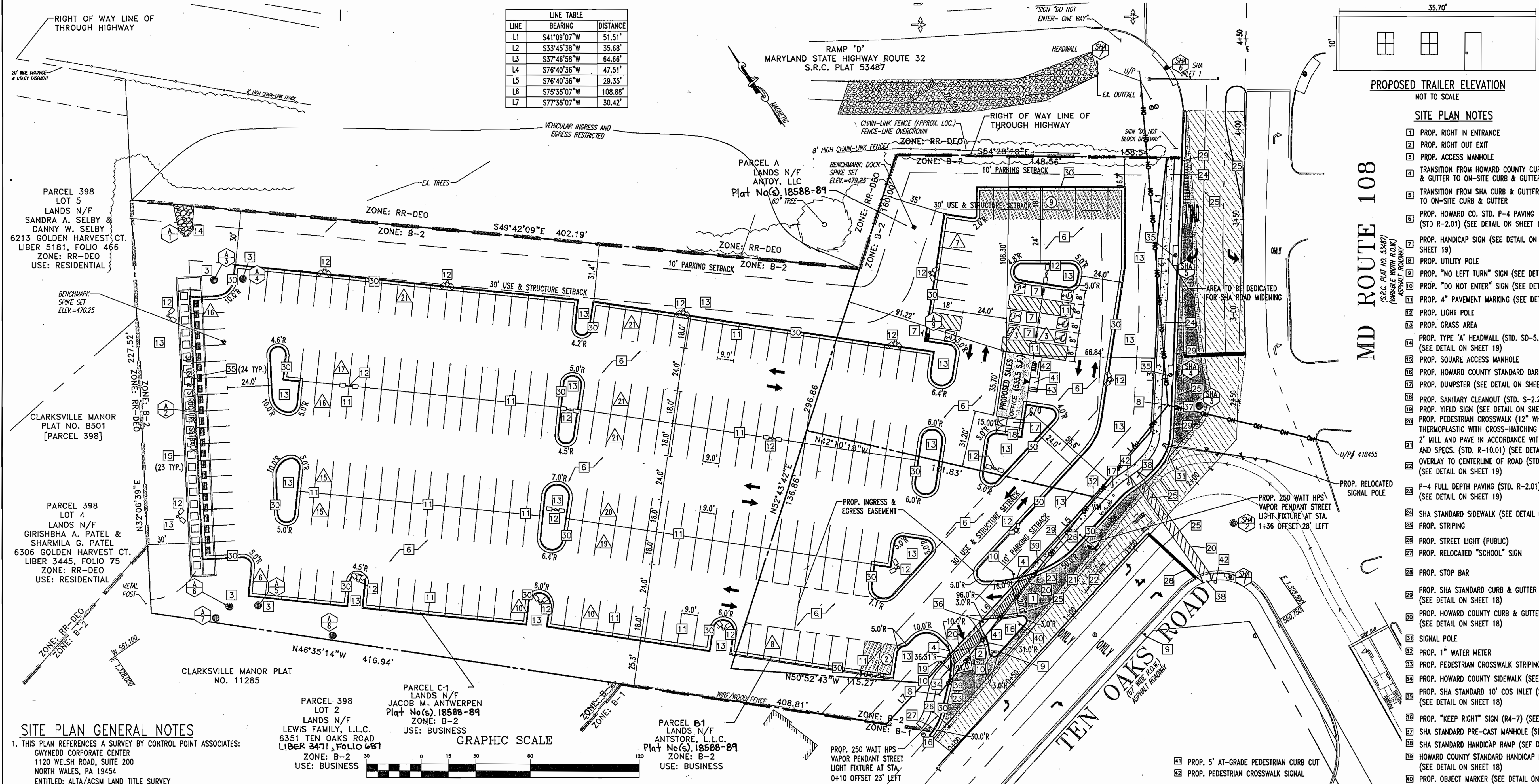
NO.	DATE	REVISION DESCRIPTION
OWNERS		DEVELOPER
PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029		JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		<i>Jacob Antwerpen</i>
PARCEL C-1 ANTWERPEN, JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 #5110 CLARKSVILLE COUNTY, SUITE 300, TOWSON, MD 21286
 (410) 851-9900 FAX (410) 851-9977 | www.bohlereng.com

10/17/06
 DESIGNED BY: M.J.G.
 DRAWN BY: J.J.L.
 PROJECT NO.: MD032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 PROFESSIONAL ENGINEER NO. 28567 DRAWING NO. 2 OF 22



PROPOSED TRAILER ELEVATION
NOT TO SCALE

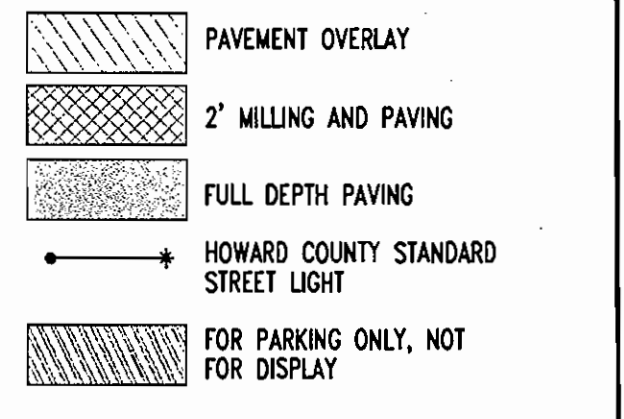
SITE PLAN NOTES

- PROP. RIGHT IN ENTRANCE
- PROP. RIGHT OUT EXIT
- PROP. ACCESS MANHOLE
- TRANSITION FROM HOWARD COUNTY CURB & GUTTER TO ON-SITE CURB & GUTTER
- TRANSITION FROM SMA CURB & GUTTER TO ON-SITE CURB & GUTTER
- PROP. HOWARD CO. STD. P-4 PAVING (STD R-2.01) (SEE DETAIL ON SHEET 19)
- PROP. HANDICAP SIGN (SEE DETAIL ON SHEET 19)
- PROP. UTILITY POLE
- PROP. "NO LEFT TURN" SIGN (SEE DETAIL ON SHEET 19)
- PROP. "DO NOT ENTER" SIGN (SEE DETAIL ON SHEET 19)
- PROP. "4" PAVEMENT MARKING (SEE DETAIL ON SHEET 19)
- PROP. LIGHT POLE
- PROP. GRASS AREA
- PROP. TYPE "A" HEADWALL (STD. SD-5.11) (SEE DETAIL ON SHEET 19)
- PROP. SQUARE ACCESS MANHOLE
- PROP. HOWARD COUNTY STANDARD BARRIER CURB (STD. R-3.03)
- PROP. DUMPSTER (SEE DETAIL ON SHEET 19)
- PROP. SANITARY CLEANOUT (STD. S-2.22) (SEE DETAIL ON SHEET 18)
- PROP. YIELD SIGN (SEE DETAIL ON SHEET 19)
- PROP. PEDESTRIAN CROSSWALK (12" WHITE, HEAT APPLIED THERMOPLASTIC WITH CROSS-HATCHING AT A 45° ANGLE)
- 2" MILL AND PAVE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS AND SPECS. (STD. R-10.01) (SEE DETAIL ON SHEET 19)
- OVERLAY TO CENTERLINE OF ROAD (STD. R-10.01) (SEE DETAIL ON SHEET 19)
- P-4 FULL DEPTH PAVING (STD. R-2.01) (SEE DETAIL ON SHEET 19)
- SHA STANDARD SIDEWALK (SEE DETAIL ON SHEET 19)
- PROP. STRIPING
- PROP. STREET LIGHT (PUBLIC)
- PROP. RELOCATED "SCHOOL" SIGN
- PROP. STOP BAR
- PROP. SHA STANDARD CURB & GUTTER (SEE DETAIL ON SHEET 18)
- PROP. HOWARD COUNTY CURB & GUTTER (STD. R-3.01) (SEE DETAIL ON SHEET 18)
- SIGNAL POLE
- PROP. 1" WATER METER
- PROP. PEDESTRIAN CROSSWALK STRIPING
- PROP. HOWARD COUNTY SIDEWALK (SEE DETAIL ON SHEET 18)
- PROP. SHA STANDARD 10' COS INLET (SHA STD. NO. 374.67) (SEE DETAIL ON SHEET 18)
- PROP. "KEEP RIGHT" SIGN (R4-7) (SEE DETAIL ON SHEET 19)
- SHA STANDARD PRE-CAST MANHOLE (SEE DETAIL ON SHEET 18)
- SHA STANDARD HANDICAP RAMP (SEE DETAIL ON SHEET 18)
- HOWARD COUNTY STANDARD HANDICAP RAMP (SEE DETAIL ON SHEET 18)
- PROP. OBJECT MARKER (SEE DETAIL ON SHEET 19)
- PROP. 5'x5' LANDING WITH HANDRAIL
- PROP. HANDICAP RAMP
- PROP. STEPS

LOCATION MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20684276
SCALE: 1"=2000'

SYMBOL LEGEND

- PARKING SPACES (VEHICLE DISPLAY) - 249 SPACES
- PARKING SPACES (PUBLIC PARKING ONLY) - 11 SPACES
- STORM DRAIN STRUCTURE
- IMPROVEMENT ITEM



APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/20/06
 CHIEF DEVELOPMENT ENGINEERING DIVISION
[Signature] 11/2/06
 CHIEF DIVISION OF LAND DEVELOPMENT
[Signature] 10/30/06
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/30/06
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO. DATE REVISION DESCRIPTION

OWNERS
 PARCEL A
 ANTOY, LLC
 12400 ROUTE 108
 CLARKSVILLE, MARYLAND 21029

DEVELOPER
 JACOB M. ANTWERPEN
 6631 BALTIMORE NATIONAL PIKE
 BALTIMORE, MARYLAND 21228
 ATTN: JACOB ANTWERPEN
[Signature]

PROJECT ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA TAX MAP 34 GRD 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE SITE PLAN

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 #110 GREENGLASS COURT, SUITE 300, TOWSON, MD 21286
 410 67-500 THE LEE BELTWAY, WOODBRIDGE, MD 21786

DESIGNED BY: M.J.G.
 DRAWN BY: J.L.L.
 PROJECT NO.: M0032003.1
 DATE: 07/05/2006
 SCALE: 1"=30'
 DRAWING NO. 3 OF 22

SITE PLAN GENERAL NOTES

- THIS PLAN REFERENCE A SURVEY BY CONTROL POINT ASSOCIATES: GWYNEDD CORPORATE CENTER 1120 WELSH ROAD, SUITE 200 NORTH WALES, PA 19454 ENTITLED: ALTA/ACSM LAND TITLE SURVEY BP PRODUCTS NORTH AMERICAN, INC. ROUTE 108 AND TEN OAKS ROAD TAX MAP 34 GRD 12 PARCEL A CLARKSVILLE, 5TH ELECTION DISTRICT HOWARD COUNTY, MD DATED: 1/14/2004 PROJECT NO: S032001.SR
- SPECIFIC RESOURCES, TECHNICAL REPORTS, DESIGN DOCUMENTS, ETC. RELATED TO THIS PROJECT INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:
 A TRAFFIC IMPACT STUDY COMPLETED BY: THE TRAFFIC GROUP 9900 FRANKLIN SQUARE DRIVE ENTITLED: "ADEQUATE ROAD FACILITIES TEST EVALUATION" DATED: MAY 5, 2006
 A GEOTECHNICAL INVESTIGATION COMPLETED BY: WHITESTONE ASSOCIATES, INC. 1600 MANOR DRIVE, SUITE 220 CHALFONT, PA 18914 DATED: FEBRUARY 16, 2006 PROJECT # WFO6-8357
- ALL ELEVATIONS SHOWN ARE BASED ON THE SURVEYOR'S BENCHMARK, AS REFERENCED IN THE SURVEY, AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE DOCUMENTS AND FAMILIARIZING HIMSELF WITH SAME FOR APPLICATION BOTH PRIOR TO AND DURING CONSTRUCTION.
- APPLICANT: ANTWERPEN AUTOMOTIVE 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
- PARCEL DATA: TAX MAP: 34 GRD: 12 PARCEL: A, B-1, C-1

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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

6. BULK REQUIREMENTS:

SETBACKS:	REQUIRED	PROPOSED
TEN OAKS ROAD: USE AND STRUCTURE SETBACK:	30'	55.65'
PARKING SETBACK:	10'	19.44'
MD RTE. 108: USE AND STRUCTURE SETBACK:	30'	66.84'
PARKING SETBACK:	10'	17.24'
MD RTE. 32: USE AND STRUCTURE SETBACK:	30'	108.30'
PARKING SETBACK:	10'	17.58'
REAR: USE AND STRUCTURE SETBACK:	30'	91.22'

7. PARKING REQUIREMENTS:
 VEHICLE SALES:
 TWO SPACES/1,000 SF OF BUILDING SALES AREA
 2 x (535/1,000) = 1 SPACE
 ONE SPACE/1,000 SF OF DISPLAY AREA
 1 x (82,817/1,000 SF) = 83 SPACES
 TOTAL PARKING REQUIRED = 84 SPACES
 TOTAL PARKING PROPOSED = 260 SPACES (INCLUDING 7 HANDICAP SPACES)

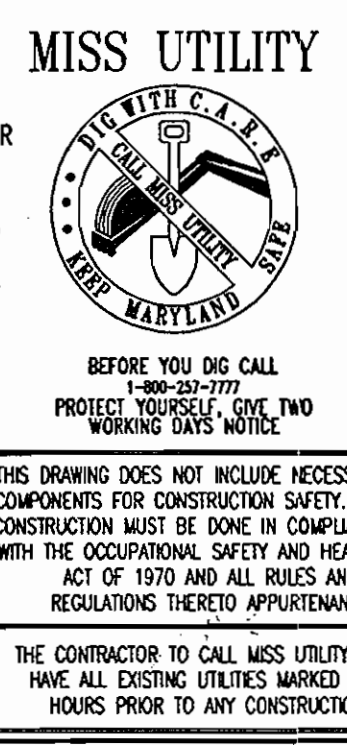
11. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY BOHLER ENGINEERING, P.C. IN WRITING OF ANY SUCH DISCREPANCY BETWEEN GEOTECHNICAL REPORT AND PLANS, ETC.

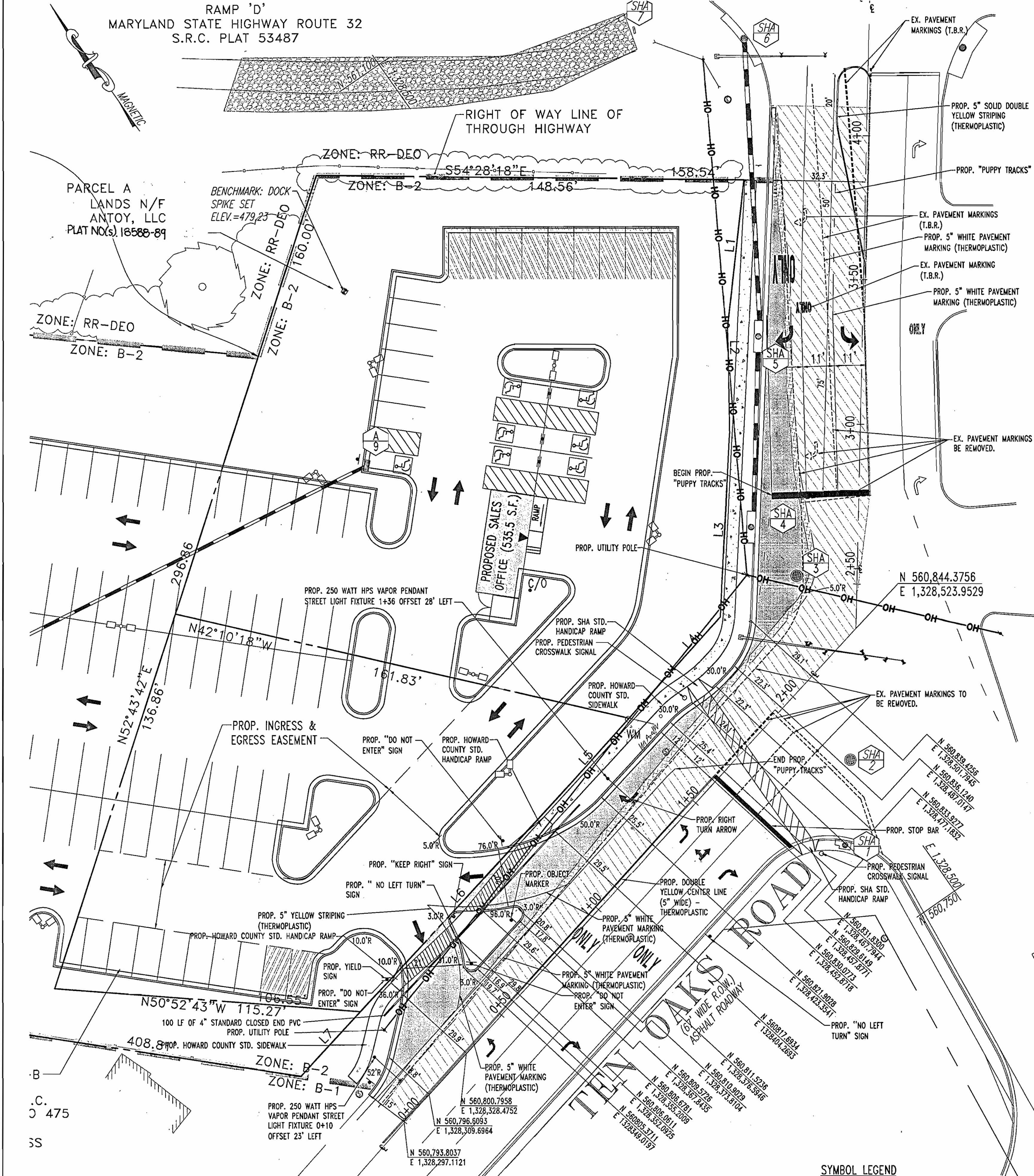
12. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.

13. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING, P.C. AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, P.C. IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE INHIBITED BY ANY OTHER SITE FEATURES. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY BOHLER ENGINEERING, P.C. IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.

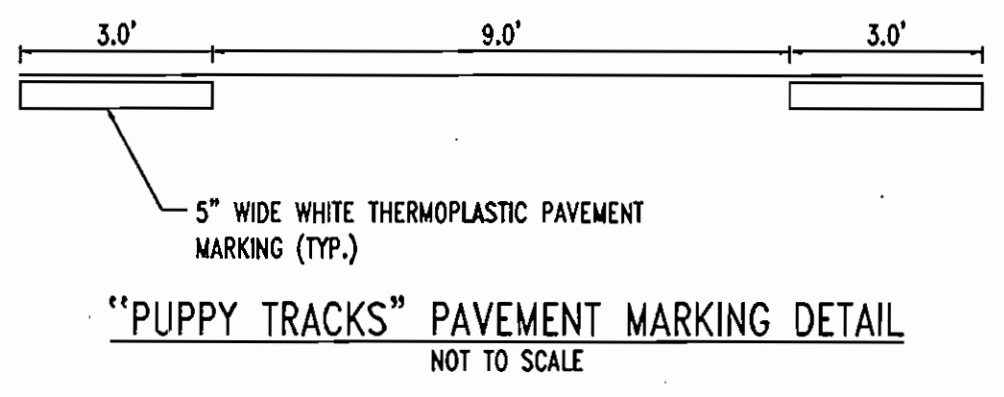
- DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
- CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES AS NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF PAVEMENT, STRUCTURES, ETC. TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.
- CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND FOR NOTIFYING CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. REPAIR SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
- BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS/MEANS FOR COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFICATION OF OWNER AND BOHLER ENGINEERING, P.C. WHEN A CONFLICT IS IDENTIFIED.
- BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAVE THEY BEEN RETAINED FOR SUCH PURPOSES.
- ALL CONTRACTORS MUST CARRY STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (COL). ALL CONTRACTORS MUST HAVE THEIR COL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, P.C., AND ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING, P.C. WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE HARMLESS BOHLER ENGINEERING, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
- NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, P.C., NOR THE PRESENCE OF BOHLER ENGINEERING, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. BOHLER ENGINEERING, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. BOHLER ENGINEERING, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

- BOHLER ENGINEERING, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. BOHLER ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT BOHLER ENGINEERING, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF BOHLER ENGINEERING, P.C. IN WRITING BY THE CONTRACTOR. BOHLER ENGINEERING, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
 - IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, BOHLER ENGINEERING, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.
 - THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.
 - IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
- NOTE:
 ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST



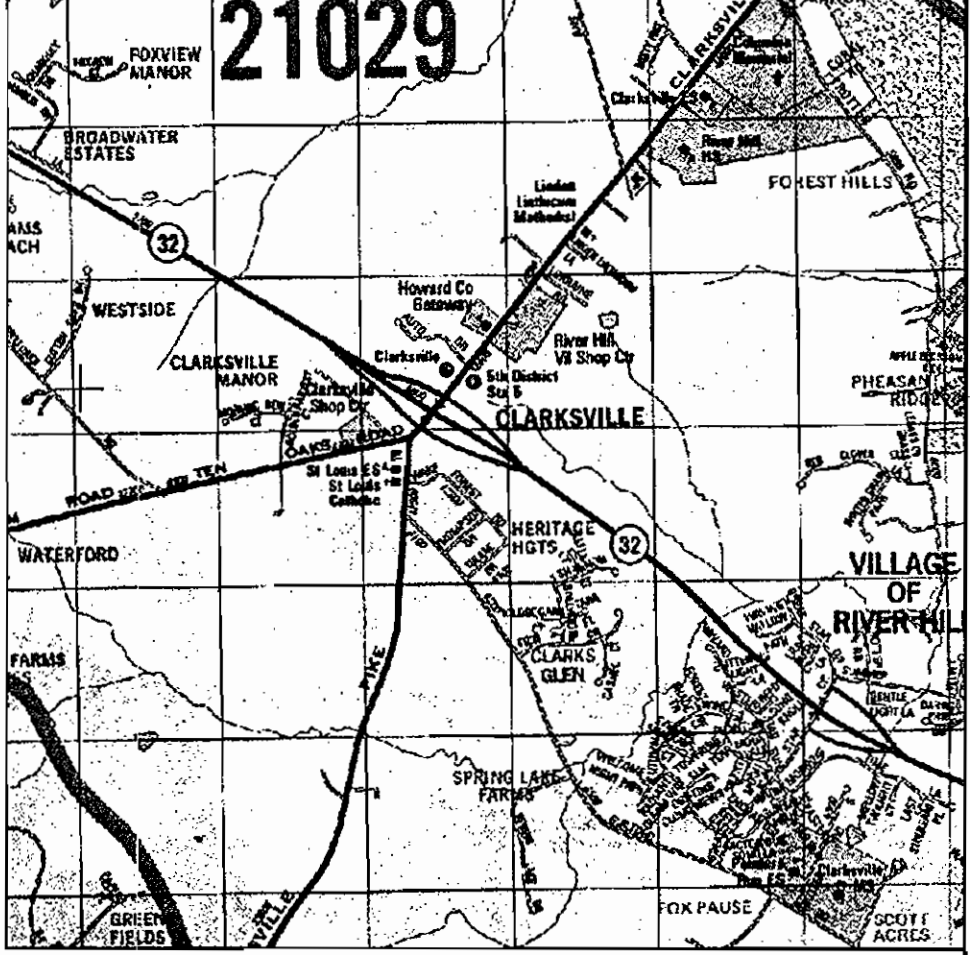


MD ROUTE 108
 (S.R.C. PLAT NO. 53487)
 (VARIABLE WIDTH R.O.W.)
 ASPHALT ROADWAY



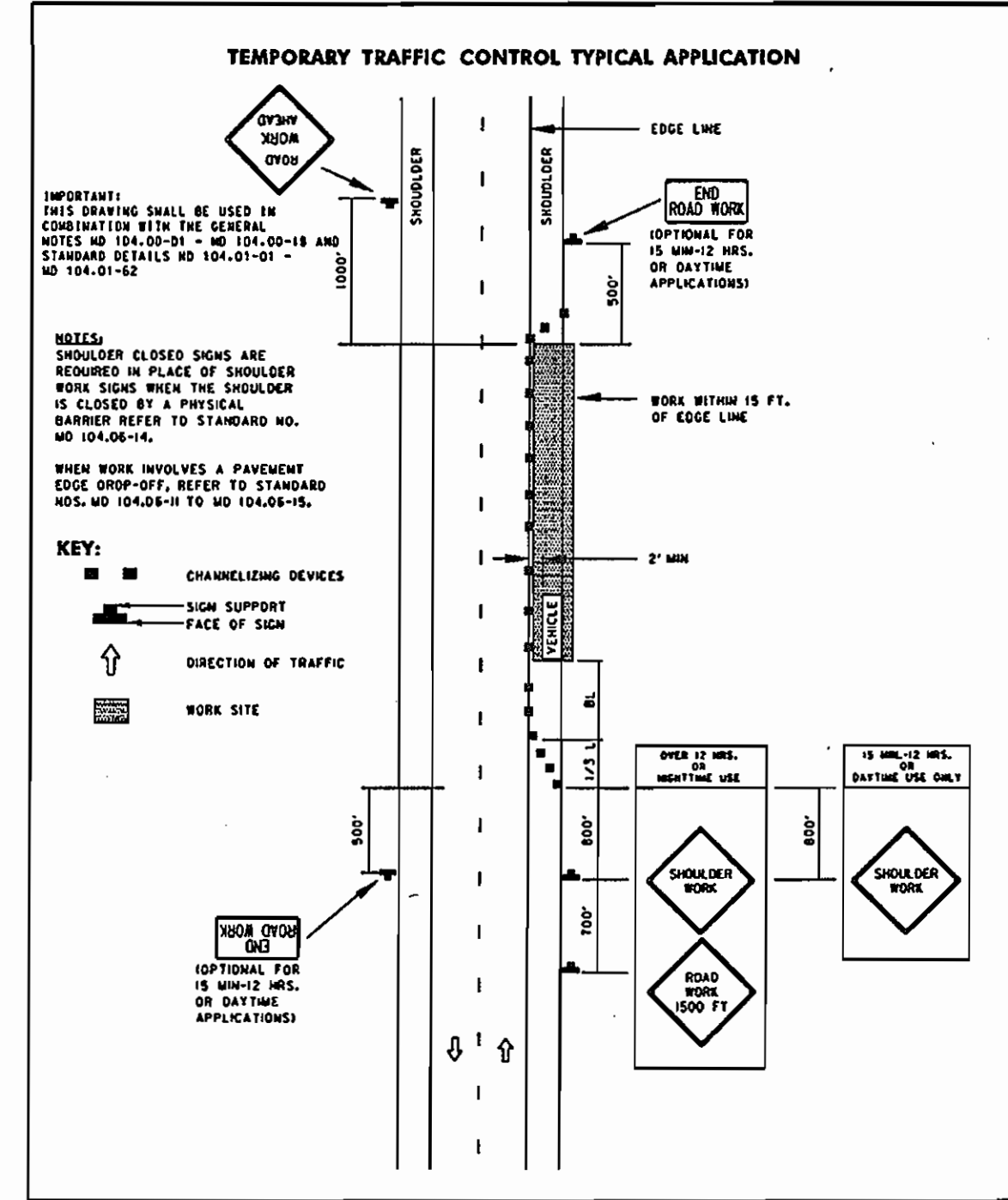
LINE	BEARING	DISTANCE
L1	S41°09'07\"W	51.51'
L2	S33°45'38\"W	35.68'
L3	S37°46'58\"W	64.66'
L4	S76°40'36\"W	47.51'
L5	S76°40'36\"W	29.35'
L6	S75°35'07\"W	108.88'
L7	S77°35'07\"W	30.42'

- MAINTENANCE OF TRAFFIC GENERAL NOTES**
1. HOWARD COUNTY SHALL BE NOTIFIED AT LEAST 48 HRS. PRIOR TO BEGINNING ANY WORK IN ORDER TO SCHEDULE FIELD INSPECTIONS OF THE TRAFFIC CONTROL DEVICES.
 2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
 3. CONTRACTOR TO USE M.U.T.C.D. STANDARDS FOR ALL TRAFFIC MAINTENANCE SIGNAGE.
 4. TRAVEL LANES SHALL MAINTAIN A 10' MINIMUM WIDTH. FLAG MEN AND OR THE APPROPRIATE SIGNAGE SHALL BE PROVIDED.
 5. BARRIERS SHALL BE USED TO MARK CHANNELIZED DEVICES ALONG THE CONSTRUCTION AREA.
 6. IF A DROP MEASURES GREATER THAN 4\", A BARRIER OR 2:1 SLOPE OF COMPACTED CRG GRAVEL SHALL BE REQUIRED.
 7. ALL OPEN TRENCHES SHALL BE CLOSED AT THE END OF EACH WORKING DAY.
 8. ALL SIGNS NOT IN USE, OR WHICH DO NOT APPLY SHALL BE COVERED.
 9. ALL EQUIPMENT AND PERSONNEL SHALL MOVE ACCORDINGLY AS CONSTRUCTION PROGRESSES.
 10. NO SIGNS SHALL OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
 11. CONSTRUCTION AND WORKMEN'S VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC.
 12. SIGNAGE PLAN SHOWN ON SHEET 22 SHALL BE USED DURING LANE WIDENING CONSTRUCTION. DURING THE REPAIRING OF TEN OAKS ROAD, THE SIGNAGE PLAN SHOULDER WORK (MD 104.02-02) SHALL BE USED.

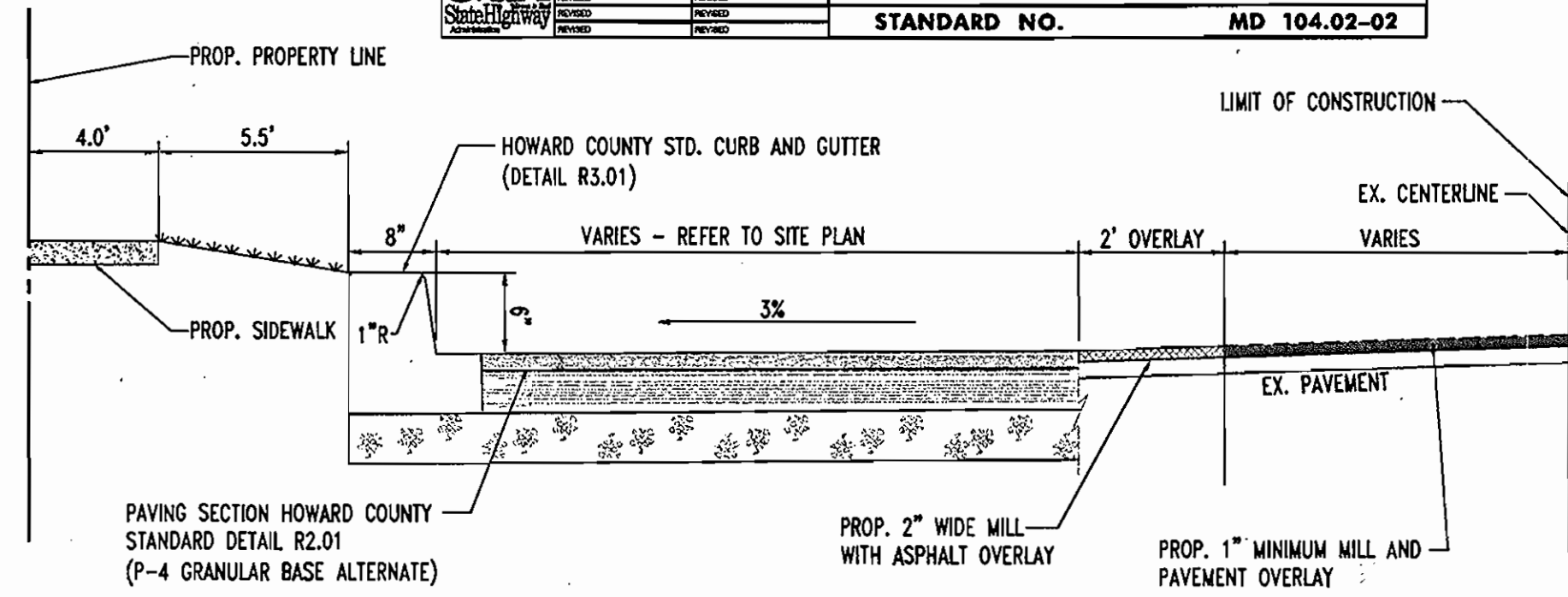


LOCATION MAP
 COPYRIGHT ADD THE MAP PEOPLE
 PERMIT USE NO. 20694276
 SCALE: 1\"/>

STA.	DISTANCE	ELEVATION
0+00	15.00' LEFT TO BEGINNING OF CONSTRUCTION AND CURB & GUTTER	G 482.24
0+12.89	18.80' LEFT TO PC	TC 483.10
0+32.13	29.90' LEFT TO PC	TC 483.53
0+53.14	19.70' LEFT TO PT	TC 483.70
0+56.29	16.70' LEFT TO PC	TC 483.66
0+59.46	29.80' LEFT TO PC	TC 483.85
0+72.43	29.80' LEFT TO PC	TC 484.25
0+78.54	17.80' LEFT TO PC	TC 483.98
0+81.40	20.80' LEFT TO PC	TC 484.10
1+09.75	29.50' LEFT TO PC	TC 484.53
1+29.30	25.50' LEFT TO PC	TC 484.64
1+64.68	25.40' LEFT TO PC	TC 484.33
1+74.75	24.10' LEFT TO PC	TC 484.14
1+84.46	20.30' LEFT TO PC	TC 484.05
1+94.53	22.30' LEFT TO PC	TC 483.92
2+09.67	29.10' LEFT TO PT	TC 483.61

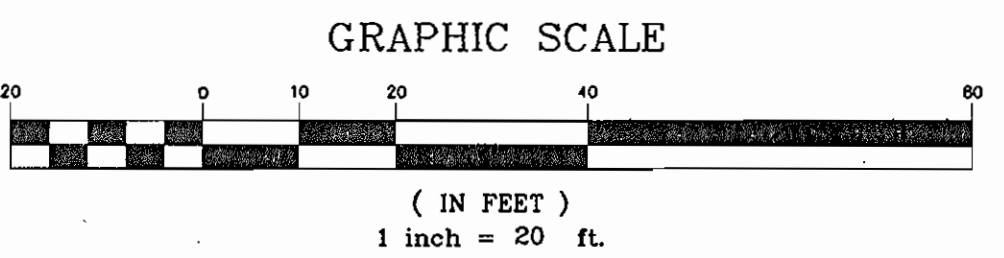
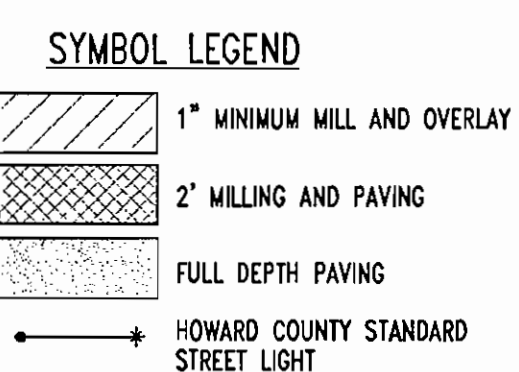


Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
SHOULDER WORK/2-LANE, 2-WAY
EQL/LESS THAN 40 MPH
 STANDARD NO. MD 104.02-02



*NOTE: BASED ON THE GEOTECH REPORT PREPARED BY WHITSTONE ASSOCIATES, INC. FOR ANTWERPEN AUTOMOTIVE (PROJECT NO. WPO6-8367) DATED FEBRUARY 16, 2006, THE ANTICIPATED CBR FOR THIS SITE IS 7.

TEN OAKS ROAD
TYPICAL SECTION
 NOT TO SCALE



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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

NOTE:
 CONTACT HOWARD COUNTY TRAFFIC ENGINEERING
 @ 410-313-5752 BEFORE ANY SIGNS OR PAVEMENT MARKINGS ARE INSTALLED.

NOTE:
 ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2\"/>

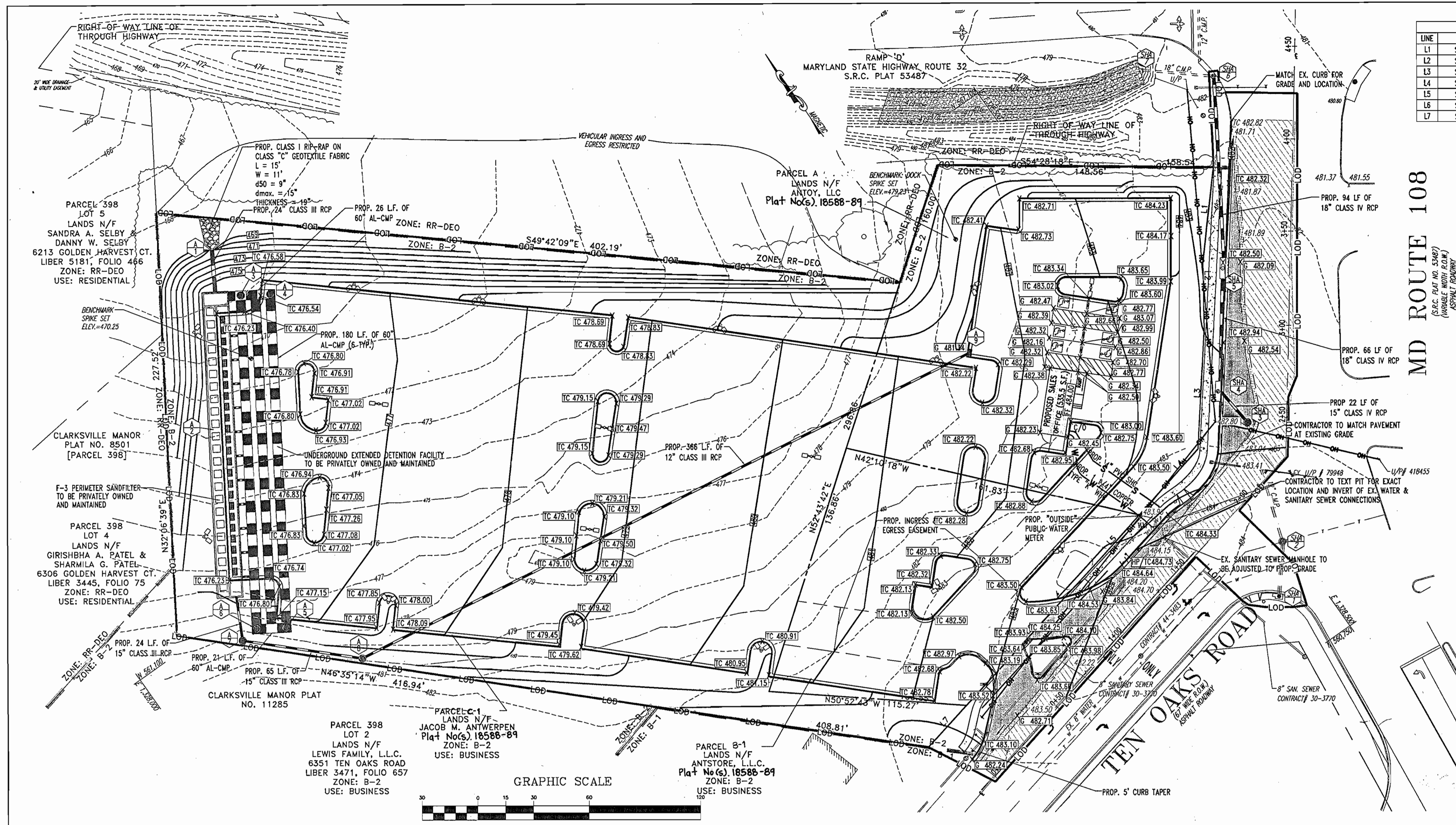
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/23/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
 APPROVED: DIVISION OF LAND DEVELOPMENT
[Signature] 11/21/06
 CHIEF-DIVISION OF LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/30/06
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

OWNERS:
 PARCEL A
 ANTWOY, LLC
 12400 ROUTE 108
 CLARKSVILLE, MARYLAND 21029
 PARCEL B-1
 ANTWERPEN, LLC
 689 TEN OAKS ROAD
 CLARKSVILLE, MARYLAND 21029
 PARCEL C-1
 ANTWERPEN JACOB M
 681 NW TEN OAKS ROAD
 CLARKSVILLE, MARYLAND 21029

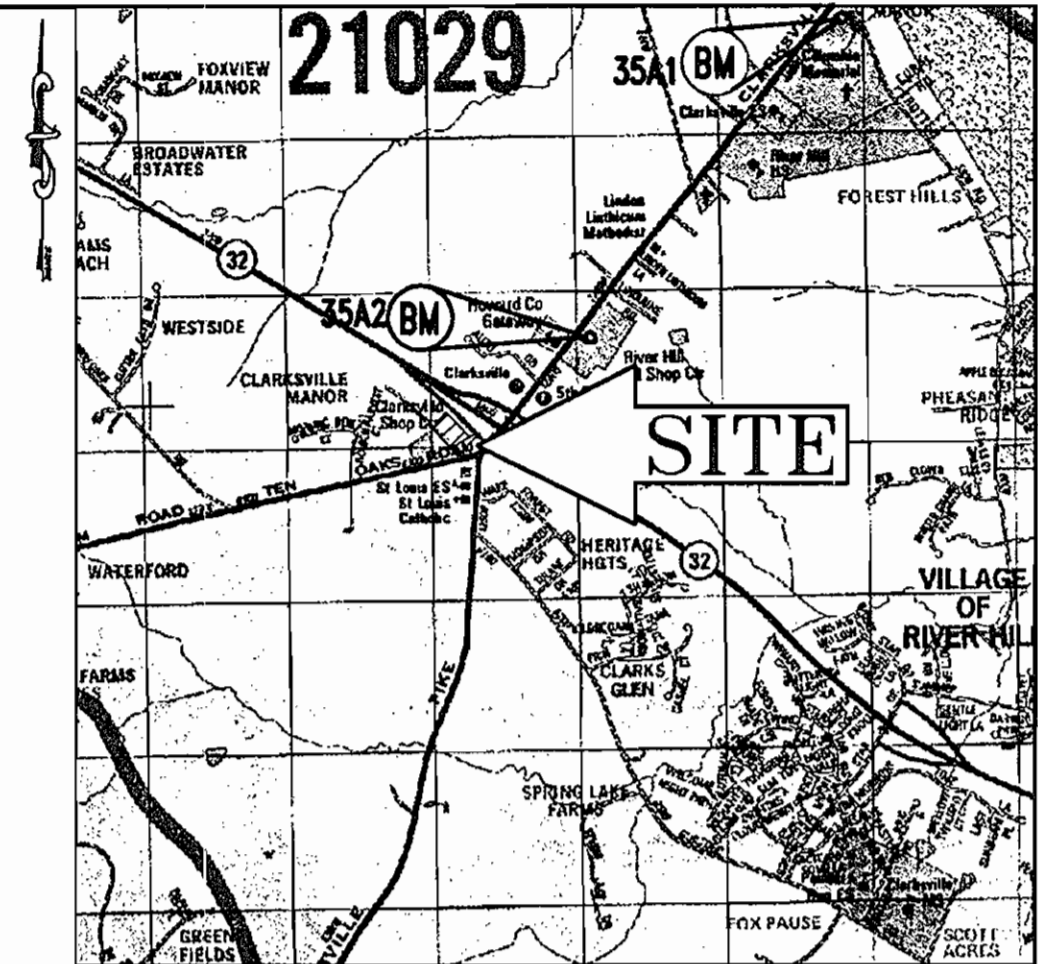
PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND
AREA: TAX MAP 34 GRID 12 ZONED B-2
TITLE: PARCELS A, B-1 and C-1
 Plat No(s). 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 810 GLENACRES COURT, SUITE 300, TOWSON, MD 21286
 (410) 251-7000 FAX (410) 251-7001

DESIGNED BY: M.J.G.
 DRAWN BY: J.L.L.
 PROJECT NO.: W0032003.1
 DATE: 07/06/2006
 SCALE: 1\"/>



LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
L4	S76°40'36"W	47.51'
L5	S76°40'36"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'



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

SHA STORM DRAIN STRUCTURE SCHEDULE				
STRUCTURE #	DESCRIPTION	INVERT IN	INVERT OUT	TOP OF CURB/RIW
SHA 3	PROPOSED SHA STANDARD PRECAST MANHOLE	478.40	478.30	481.70
SHA 4	PROPOSED SHA STANDARD 10" COS INLET	478.08	477.83	481.80
SHA 5	PROPOSED SHA STANDARD 10" COS INLET	477.17	477.07	481.80

ON SITE STRUCTURE SCHEDULE				
NO.	DESCRIPTION	INVERT IN	INVERT OUT	TOP
A	PROPOSED TYPE "A" HEADWALL HOWARD CO. STD. SD-5.11	468.64 (24")	---	471.64
B	CAS-T-IN PLACE SAND FILTER	471.75 (15")	469.06 (60")	VARIES
C	PROPOSED ACCESS MANHOLE	469.06 (60")	469.06 (24")	476.20
D	PROPOSED ACCESS MANHOLE	469.06 (60")	469.06 (60")	476.09
E	PROPOSED ACCESS MANHOLE	469.06 (60")	469.06 (60")	478.00
F	PROPOSED ACCESS MANHOLE	469.06 (60")	469.06 (60")	478.50
G	PROPOSED PRECAST MANHOLE HOWARD CO. STD. G-5.12	472.11 (15")	472.11 (15")	479.70
H	PROPOSED PRECAST MANHOLE HOWARD CO. STD. G-5.12	473.08 (12")	473.08 (15")	479.80
I	PROPOSED DOUBLE 'S' INLET HOWARD CO. STD. SD-4.34	---	478.57 (12")	481.34

PIPE SCHEDULE	
DESCRIPTION	LENGTH
24" CLASS IV RCP	25 L.F.
18" CLASS IV RCP	160 L.F.
15" CLASS IV RCP	22 L.F.
15" CLASS III RCP	89 L.F.
60" AL-CMP	1133 L.F.
12" CLASS III RCP	366 L.F.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/30/06
 CHIEF ENGINEERING DIVISION
 APPROVED: DEPARTMENT OF LAND DEVELOPMENT
[Signature] 10/30/06
 CHIEF DIVISION OF LAND DEVELOPMENT
 APPROVED: DEPARTMENT OF PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/30/06
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS	PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	DEVELOPER JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
	PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	<i>[Signature]</i>
	PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND
 AREA: TAX MAP 34 GRID 12 ZONED: B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 TITLE: GRADING & UTILITY PLAN

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 4510 CLARKSVILLE CORNER, SUITE 300, TOWSON, MD 21286
 (410) 251-7900 FAX: (410) 251-7887 | BOHLEReng.com
 10/17/06
 DESIGNED BY: M.J.G.
 DRAWN BY: J.J.L.
 PROJECT NO.: MD032005.1
 DATE: 07/06/2005
 SCALE: 1"=30'
 PROFESSIONAL ENGINEERS NO. 28867
 DRAWING NO. 5 OF 25

GRADING & UTILITY NOTES

- 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 SERVICE 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 BOHLER ENGINEERING, P.C.. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. ALL PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 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 BOHLER ENGINEERING, P.C. OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.
- DEFINE AND LOCATE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT COMPLETED BY WHITESTONE ASSOCIATES, DATED NOVEMBER 14, 2001. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DETERMINED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO BOHLER ENGINEERING, P.C. IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION.
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY BOHLER ENGINEERING, P.C. IN WRITING OF ANY CONFLICTS.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.

ENGINEER'S CERTIFICATE
 I, THE ENGINEER, CERTIFY THAT THIS PLAN FOR GRADING AND UTILITY REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF ENGINEER: *[Signature]* DATE: 10/17/06

DEVELOPER'S CERTIFICATE
 I, THE DEVELOPER, CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR GRADING AND UTILITY, 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 PERSONS ON-SITE INSPECTOR BY THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF DEVELOPER: *[Signature]* DATE: 10/17/06



TRAP NUMBER	1	ST-II
TRAP TYPE		
MAXIMUM DRAINAGE AREA (ACRES)	1.96	
STORAGE REQUIRED (CU. FT.)		
CLEANOUT	1,854	
WET	3,708	
DRY	3,708	
TOTAL	7,416	
STORAGE PROVIDED (CU. FT.)		
CLEANOUT	1,872	
WET	3,876	
DRY	9,470	
TOTAL	13,346	
BOTTOM DIMENSIONS (FT.)	86'x42'	
SIDE SLOPES	2:1	
BOTTOM ELEVATION	469.00	
WEIR CREST ELEVATION	472.00	
CLEANOUT ELEVATION	469.50	
EMBANKMENT ELEVATION (I.E., TOP)	473.00	
EXISTING GROUND ELEVATION AT 6' OF EMBANKMENT	473.00	
WET STORAGE ZONE (ELEVATIONS)	469.00-470.00	
DRY STORAGE ZONE (ELEVATIONS)	470.00-472.00	
WEIR LENGTH	13.0'	

EROSION AND SEDIMENT CONTROL QUANTITIES

LIMIT OF DISTURBANCE = 143,440 S.F. OR 3.29 AC.
 TOTAL NET SITE AREA = 143,440 S.F. OR 3.29 AC.
 TOTAL IMPERVIOUS AREA = 86,249 S.F. OR 1.98 AC
 AREA TO BE VEGETATEDLY STABILIZED = 46,192 S.F. OR 1.06 AC

CUT = 7,202 CU. YARDS
 FILL = 5,268 CU. YARDS
 SILT FENCE = 267 L.F.
 SUPER SILT FENCE = 1,112 L.F.
 SUPER FENCE DIVERSION = 417 L.F.
 STABILIZED CONSTRUCTION ENTRANCE = 2 EA.
 DIVERSION DIKE = 434 L.F.
 AT-GRADE INLET PROTECTION = 27 EA.
 CURB INLET PROTECTION = 3 EA.
 REMOVABLE PUMP STATION = 1 EA.

- SEQUENCE OF CONSTRUCTION**
- PHASE I**
- OBTAIN GRADING PERMIT, CONTACT HOWARD COUNTY SEDIMENT CONTROL DIVISION AT (410) 313-1855. (1 DAY)
 - PRIOR TO CLEARING OF TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE. (1 DAY)
 - THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBANCE. (2 DAYS)
 - INSTALL PROPOSED STABILIZED CONSTRUCTION ENTRANCES, CLEAR AND GRUB FOR INSTALLATION OF ALL OTHER SEDIMENT CONTROL DEVICES. (6 DAYS)
 - INSTALL SILT FENCE, SUPER SILT FENCE, SEDIMENT TRAP AND SILT FENCE DIVERSION AS SHOWN ON PLAN. (5 DAYS)
 - INSTALL EARTH DIKES AS SHOWN ON PLAN. EARTH DIKE #1 IS TO BE CONSTRUCTED TO A FINAL ELEVATION OF 477 AND LINED WITH HYV. PROVIDE A WINDOW IN THE HYV TO ALLOW FOR A MOUNTABLE BERM AND THROUGH TRAFFIC. (5 DAYS)
 - ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING, OR GRADING. (3 DAYS)
 - WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE AND BEGIN TO ROUGH GRADE SITE. (14 DAYS)
 - CONSTRUCT SALES TRAILER, UTILITIES, INSTALL INLET PROTECTION AS INLETS BECOME FUNCTIONAL. (20 DAYS)
- PHASE II**
- FINE GRADE ALL DISTURBED AREAS AND CONSTRUCT CURB. (14 DAYS)
 - INSTALL STONE SURFACE AND PAVEMENT BASE COURSE AND STABILIZE ALL DISTURBED AREA AS NECESSARY. (3 DAYS)
 - MAKE CONNECTION TO SHA-6. (1 DAY)
 - INSTALL CURB, STONE SURFACE AND PAVEMENT BASE COURSE. (5 DAYS)
 - REMOVE EARTH DIKES AND SEDIMENT TRAP. (5 DAYS)
 - FINE GRADE ALL REMAINING AREAS. (5 DAYS)
 - INSTALL REMAINING STONE SURFACE AND PAVEMENT BASE COURSE. (3 DAYS)
 - INSTALL SURFACE PAVING. (5 DAYS)
 - INSTALL ALL LANDSCAPING.
 - INSTALL FILTER MEDIA WITHIN THE STORMWATER MANAGEMENT FACILITY. (1 DAY)
 - STABILIZE ALL ADDITIONAL DISTURBED AREAS AS REQUIRED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES. (2 DAYS)

TRAP/BASIN DIVERSION NOTE:

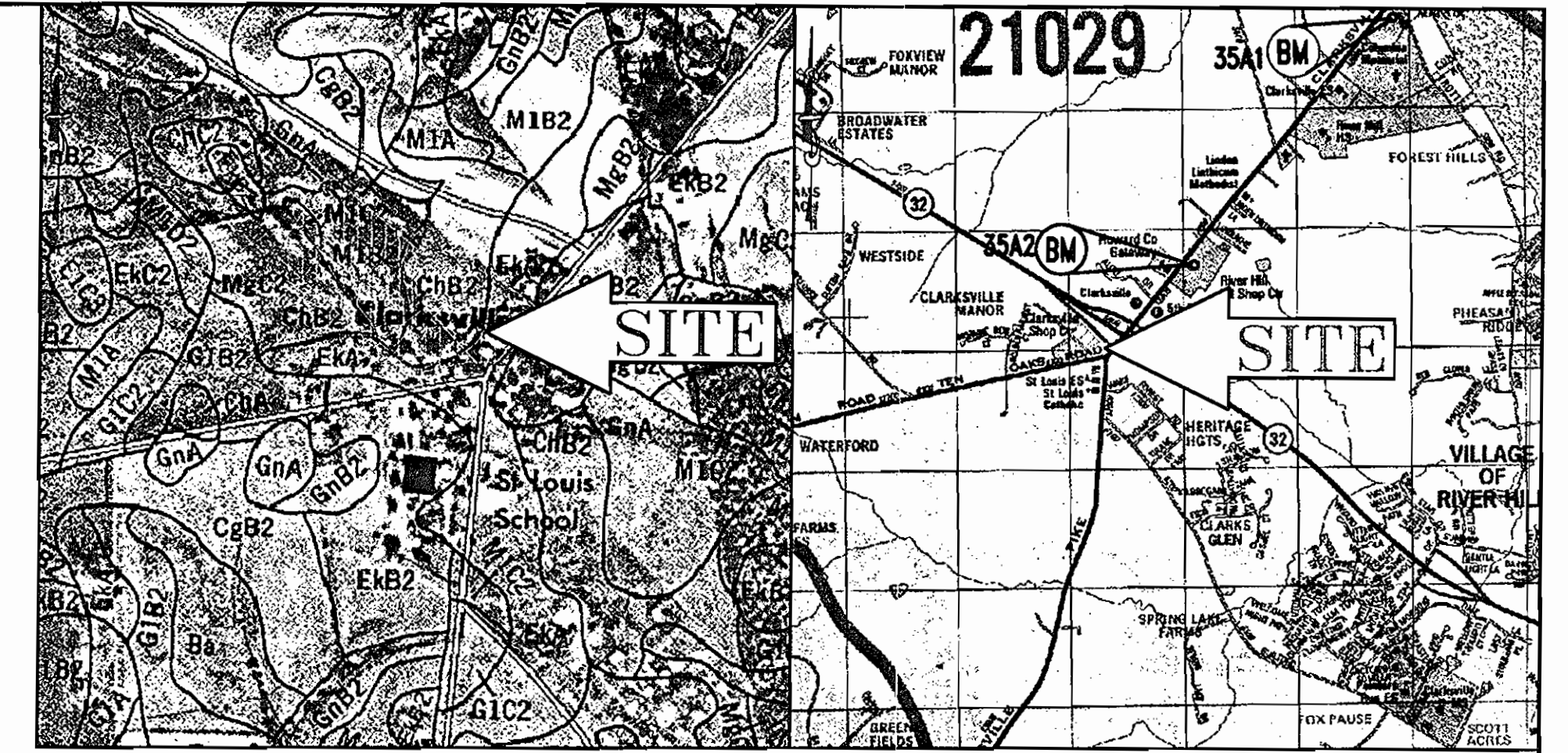
TO PREVENT SLOPE EROSION WITHIN SEDIMENT TRAPPING DEVICES, ADEQUATELY SIZED AND STABILIZED FLOW DIVERSION MEASURES, (I.E. EARTH DIKES, TEMPORARY SWALES, PERIMETER DIKE SWALES) SHALL BE INSTALLED AT THE UP-SLOPE EXTENT OF THE TRAP AND BASIN STORAGE AREAS TO DIVERT ALL FLOWS TO APPROPRIATE INFLOW PROTECTION DEVICES. THE MEASURE WILL BE LOCATED BY THE CONTRACTOR AND THEREFORE NOT SHOWN ON THE PLAN VIEW.

NOTE:

- THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.
- ALL ON-SITE CUT TO BE EXPORTED TO A SITE THAT HAS A FUNCTIONING SEDIMENT CONTROL PROGRAM IN PLACE.

LINE TABLE

LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
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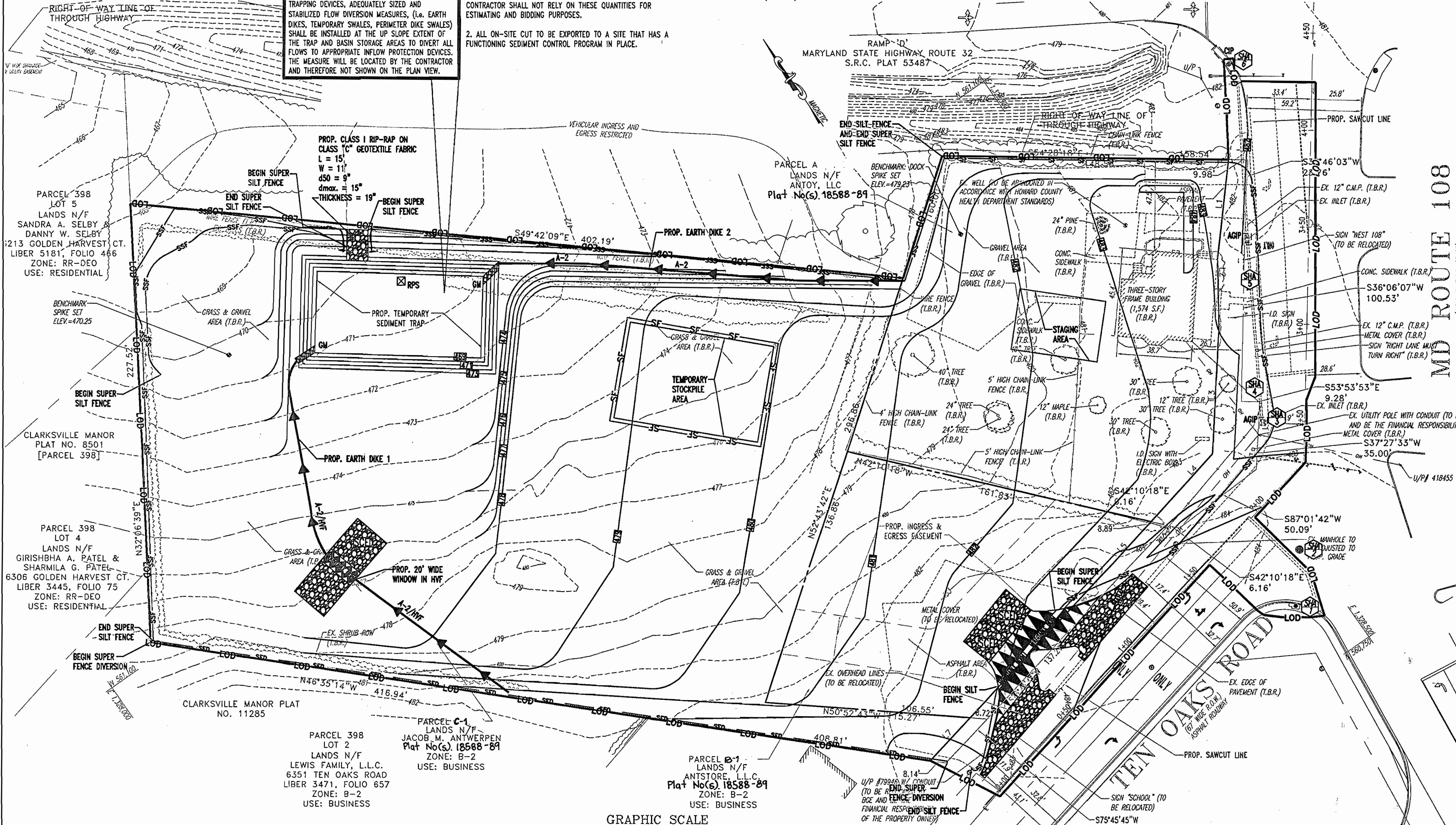


SOILS MAP
SCALE: 1"=500'

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

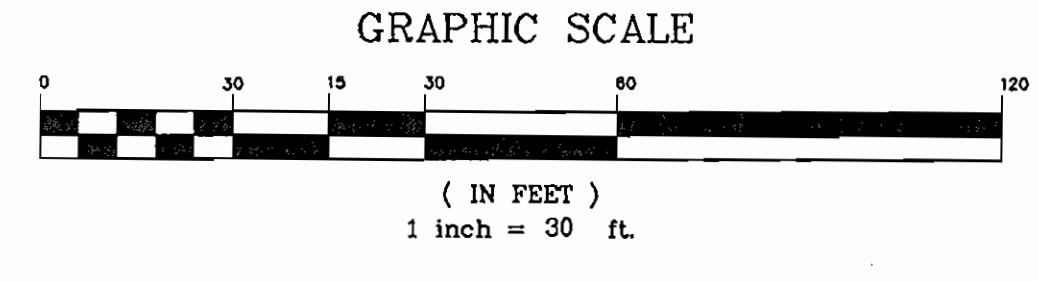
STANDARD SYMBOLS

SOIL TYPES	STANDARD SYMBOLS	DESCRIPTION
ChB2	[Symbol]	CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED
Eka	[Symbol]	ELOAK SILT LOAM, 0-3% SLOPES UNERODED OR SLIGHTLY ERODED
MiB2	[Symbol]	MANOR LOAM, 3-8% SLOPES MODERATELY ERODED
MiC2	[Symbol]	MANOR LOAM, 8-15% SLOPES MODERATELY ERODED
GnA	[Symbol]	GLENVILLE SILT LOAM, 0+3% SLOPES
CgB2	[Symbol]	CHESTER GRAVELLY SILT LOAM, 3-8% SLOPES MODERATELY ERODED
[Symbol]	[Symbol]	GABION INFLOW PROTECTION
[Symbol]	[Symbol]	INLET PROTECTION
[Symbol]	[Symbol]	INLET PROTECTION
[Symbol]	[Symbol]	SILT FENCE
[Symbol]	[Symbol]	SUPER SILT FENCE
[Symbol]	[Symbol]	SUPER FENCE DIVERSION
[Symbol]	[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	[Symbol]	EARTH DIKE
[Symbol]	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
[Symbol]	[Symbol]	EARTH DIKE W/ HIGHLY VISIBLE FENCE



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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 DATE: 10/26/06
 USA NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE: 10/26/06
 HOWARD SCD

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 DATE: 10/25/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION

APPROVED: DIVISION OF LAND DEVELOPMENT
 DATE: 11/2/06
 CHIEF-DIVISION OF LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 DATE: 10/29/06
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE: 10/17/06
 PRINT NAME: Matthew T. Allen

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 OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE:
 PRINT NAME: Jacob M. Antwerpen

NO.	DATE	REVISION DESCRIPTION
OWNERS	PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	DEVELOPER JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
	PARCEL B-1 ANTSTORE, LLC 6369 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	
	PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA TAX MAP 34 GR 012 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: EROSION & SEDIMENT CONTROL PLAN PHASE I

BOHLER ENGINEERING, P.C.

PROFESSIONAL ENGINEERING SERVICES
 810 GLENMOUNT COURT, SUITE 300, TOWSON, MD 21286
 (410) 251-7900 FAX (410) 251-7987 | bollereng.com

10/17/06

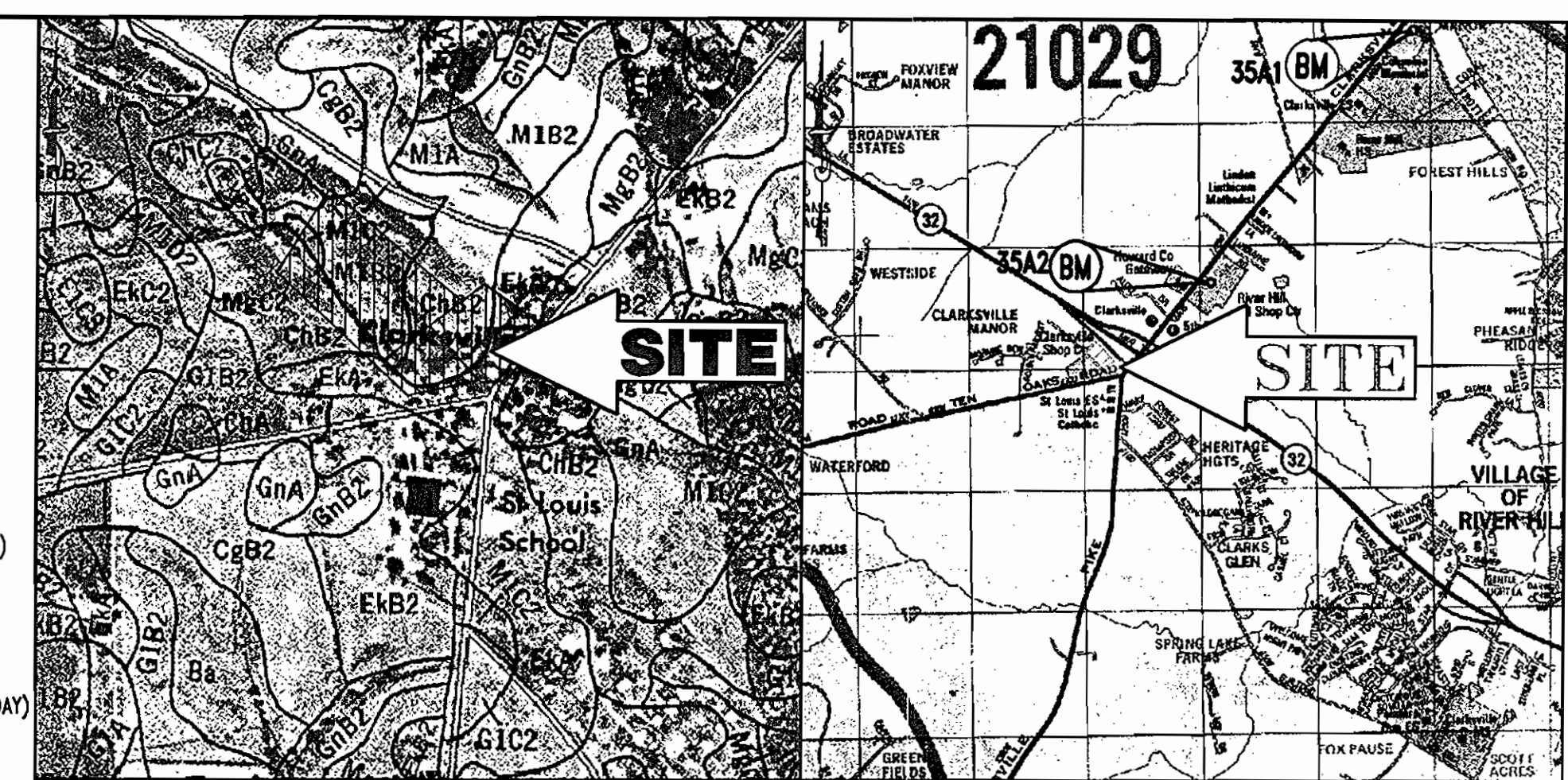
DESIGNED BY: M.J.G.
 DRAWN BY: J.J.L.
 PROJECT NO.: M0032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 6 OF 22



BEFORE YOU DIG CALL
 800-251-7777
 PROTECT YOURSELF. DIG TWO 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 APPURTENANT.

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



SOILS MAP
SCALE: 1"=500'

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

SOIL TYPES		STANDARD SYMBOLS	
ChB2	CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED	[Symbol]	GABION INFLOW PROTECTION
EkA	ELIASK SILT LOAM, 0-3% SLOPES UNERODED OR SLIGHTLY ERODED	[Symbol]	INLET PROTECTION
MiB2	MANOR LOAM, 3-8% SLOPES MODERATELY ERODED	[Symbol]	INLET PROTECTION
MiC2	MANOR LOAM, 8-15% SLOPES MODERATELY ERODED	[Symbol]	SILT FENCE
GnA	GLENVILLE SILT LOAM, 0+3% SLOPES	[Symbol]	SUPER SILT FENCE
CgB2	CHESTER GRAVELLY SILT LOAM, 3-8% SLOPES MODERATELY ERODED	[Symbol]	SUPER FENCE DIVERSION
		[Symbol]	LIMIT OF DISTURBANCE
		[Symbol]	EARTH DIKE
		[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
		[Symbol]	EARTH DIKE W/ HIGHLY VISIBLE FENCE

EROSION AND SEDIMENT CONTROL QUANTITIES

LIMIT OF DISTURBANCE = 143,440 S.F. OR 3.29 AC.
 TOTAL NET SITE AREA = 143,440 S.F. OR 3.29 AC.
 TOTAL IMPERVIOUS AREA = 86,249 S.F. OR 1.98 AC
 AREA TO BE VEGETATED STABILIZED = 46,192 S.F. OR 1.06 AC.
 CUT = 7,202 CU. YARDS
 FILL = 5,268 CU. YARDS
 SILT FENCE = 267 L.F.
 SUPER SILT FENCE = 1,112 L.F.
 SUPER FENCE DIVERSION = 417 L.F.
 STABILIZED CONSTRUCTION ENTRANCE = 2 EA.
 DIVERSION DIKE = 434 L.F.
 AT-GRADE INLET PROTECTION = 27 EA.
 CURB INLET PROTECTION = 3 EA.
 REMOVABLE PUMP STATION - 1 EA.

NOTE:
 1. THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.
 2. ALL ON-SITE CUT TO BE EXPORTED TO A SITE THAT HAS A FUNCTIONING SEDIMENT CONTROL PROGRAM IN PLACE.

SEQUENCE OF CONSTRUCTION

- PHASE I**
- OBTAIN GRADING PERMIT, CONTACT HOWARD COUNTY SEDIMENT CONTROL DIVISION AT (410) 313-1855. (1 DAY)
 - PRIOR TO CLEARING OF TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE. (1 DAY)
 - THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBANCE. (2 DAYS)
 - INSTALL PROPOSED STABILIZED CONSTRUCTION ENTRANCES, CLEAR AND GRUB FOR INSTALLATION OF ALL OTHER SEDIMENT CONTROL DEVICES. (6 DAYS)
 - INSTALL SILT FENCE, SUPER SILT FENCE, SEDIMENT TRAP AND SILT FENCE DIVERSION AS SHOWN ON PLAN. (5 DAYS)
 - INSTALL EARTH DIKES AS SHOWN ON PLAN. EARTH DIKE #1 IS TO BE CONSTRUCTED TO A FINAL ELEVATION OF 477 AND LINED WITH H.V.F. PROVIDE A WINDOW IN THE H.V.F. TO ALLOW FOR A MOUNTABLE BERM AND THROUGH TRAFFIC. (5 DAYS)
 - ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING, OR GRADING. (3 DAYS)
 - WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE AND BEGIN TO ROUGH GRADE SITE. (14 DAYS)
 - CONSTRUCT SALES TRAILER, UTILITIES, INSTALL INLET PROTECTION AS INLETS BECOME FUNCTIONAL. (20 DAYS)
- PHASE II**
- FINE GRADE ALL DISTURBED AREAS AND CONSTRUCT CURB. (14 DAYS)
 - INSTALL STONE SURFACE AND PAVEMENT BASE COURSE AND STABILIZE ALL DISTURBED AREA AS NECESSARY. (3 DAYS)
 - MAKE CONNECTION TO SHA-6. (1 DAY)
 - CONSTRUCT UNDERGROUND DETENTION AREA AND PERIMETER SAND FILTER. INSTALL INLET PROTECTION (14 DAYS)
 - INSTALL CURB, STONE SURFACE AND PAVEMENT BASE COURSE. (5 DAYS)
 - REMOVE EARTH DIKES AND SEDIMENT TRAP. (5 DAYS)
 - FINE GRADE ALL REMAINING AREAS. (5 DAYS)
 - INSTALL REMAINING STONE SURFACE AND PAVEMENT BASE COURSE. (3 DAYS)
 - INSTALL SURFACE PAVING. (5 DAYS)
 - INSTALL ALL LANDSCAPING.
 - INSTALL FILTER MEDIA WITHIN THE STORMWATER MANAGEMENT FACILITY. (1 DAY)
 - STABILIZE ALL ADDITIONAL DISTURBED AREAS AS REQUIRED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES. (2 DAYS)

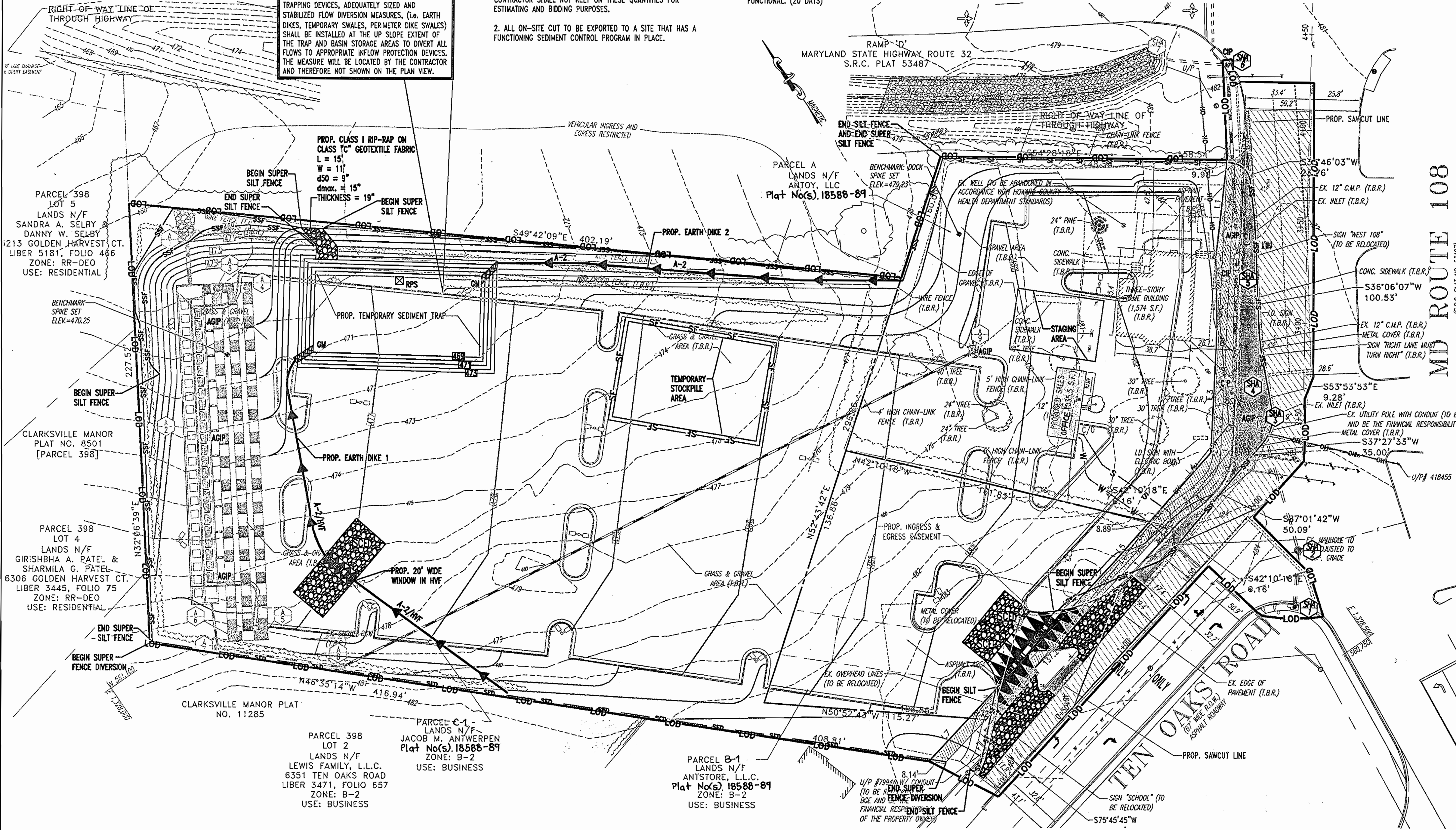
TRAP NUMBER

TRAP TYPE	ST-II
MAXIMUM DRAINAGE AREA (ACRES)	1.96
STORAGE REQUIRED (CU. FT.)	
CLEANOUT	1,854
WET	3,708
DRY	3,708
TOTAL	7,416
STORAGE PROVIDED (CU. FT.)	
CLEANOUT	1,872
WET	3,876
DRY	9,470
TOTAL	13,346
BOTTOM DIMENSIONS (FT.)	86'x42'
SIDE SLOPES	2:1
BOTTOM ELEVATION	469.00
WEIR CREST ELEVATION	472.00
CLEANOUT ELEVATION	469.50
EMBANKMENT ELEVATION (I.E., TOP)	473.00
WET STORAGE/OUTLET ELEVATION	470.00
EXISTING GROUND ELEVATION AT 6' OF EMBANKMENT	473.00
WET STORAGE ZONE (ELEVATIONS)	469.00-470.00
DRY STORAGE ZONE (ELEVATIONS)	470.00-472.00
WEIR LENGTH	13.0'

TRAP/BASIN DIVERSION NOTE:
 TO PREVENT SLOPE EROSION WITHIN SEDIMENT TRAPPING DEVICES, ADEQUATELY SIZED AND STABILIZED FLOW DIVERSION MEASURES, (I.E. EARTH DIKES, TEMPORARY SWALES, PERIMETER DIKE SWALES) SHALL BE INSTALLED AT THE UP-SLOPE EXTENT OF THE TRAP AND BASIN STORAGE AREAS TO DIVERT ALL FLOWS TO APPROPRIATE INFLOW PROTECTION DEVICES. THE MEASURE WILL BE LOCATED BY THE CONTRACTOR AND THEREFORE NOT SHOWN ON THE PLAN VIEW.

LINE TABLE

LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'59"W	64.66'
L4	S76°40'35"W	47.51'
L5	S76°40'35"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'



REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 Jim Meyer 10/29/06
 USA - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Jeff St 10/29/06
 HOWARD SCD DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 10/29/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 10/29/06
 CHIEF-DIVISION OF LAND DEVELOPMENT DATE

[Signature] 10/29/06
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 [Signature] 10/30/06
 HOWARD COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 [Signature] 10/17/06
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE
 Matthew T. Allen

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] 10/29/06
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE
 Jacob M. Antwerpen

NO.	DATE	REVISION DESCRIPTION
OWNERS	PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	DEVELOPER JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
	PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	
	PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	

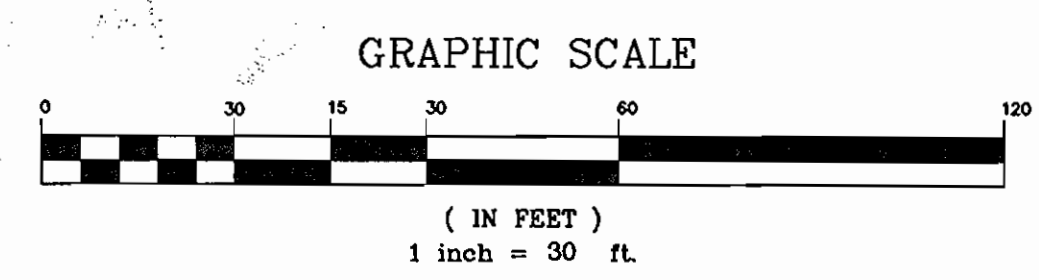
PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

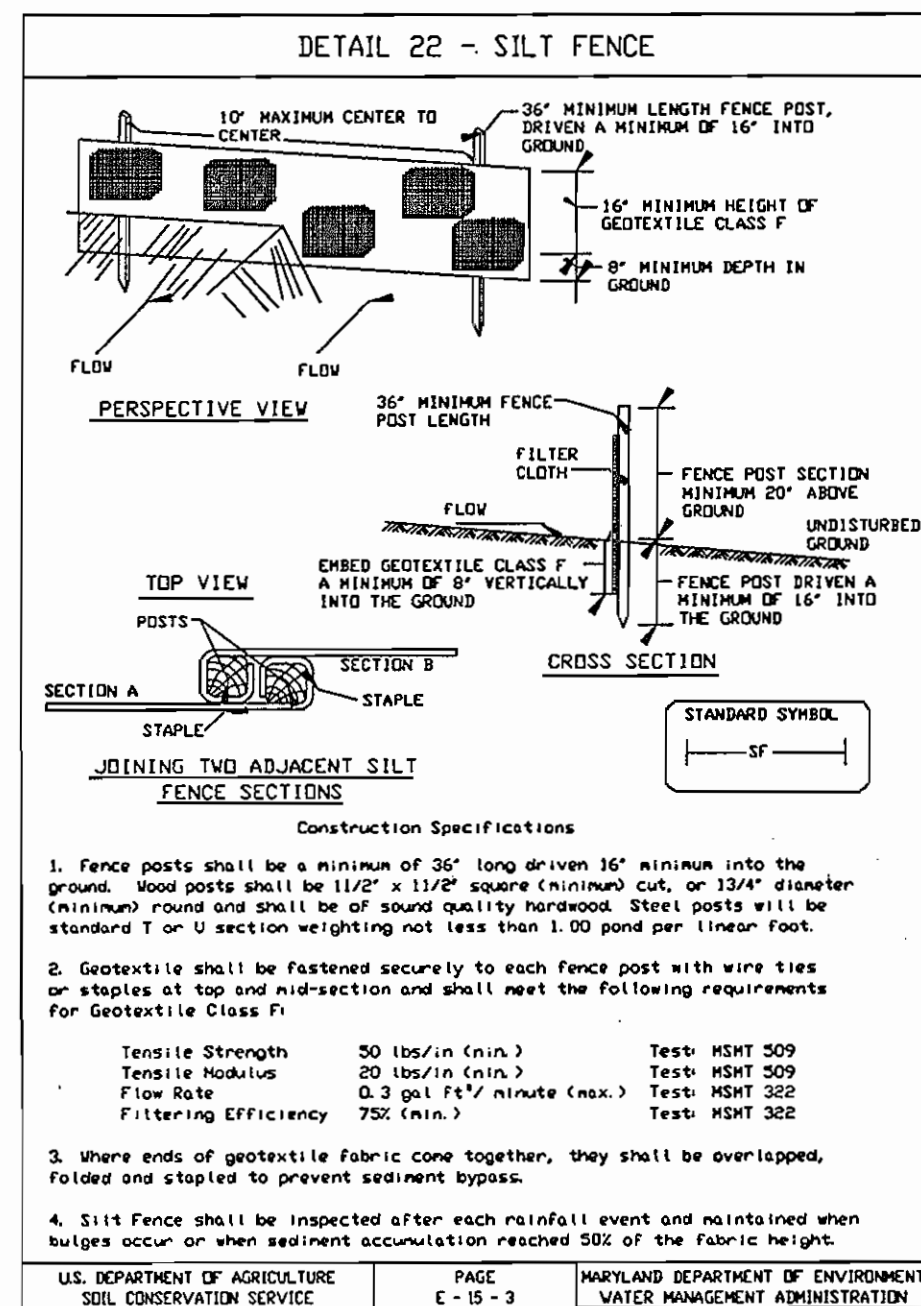
BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 4910 CLEGGWOODS COURT, SUITE 300, TOWSON, MD 21286
 (410) 281-7900 FAX: (410) 281-7901

10/17/06
 [Signature]
 MATTHEW T. ALLEN
 PROFESSIONAL ENGINEER NO. 28567

DESIGNED BY: M.J.G.
 DRAWN BY: J.L.L.
 PROJECT NO.: MD032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 7 OF 22



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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.



SILT FENCE

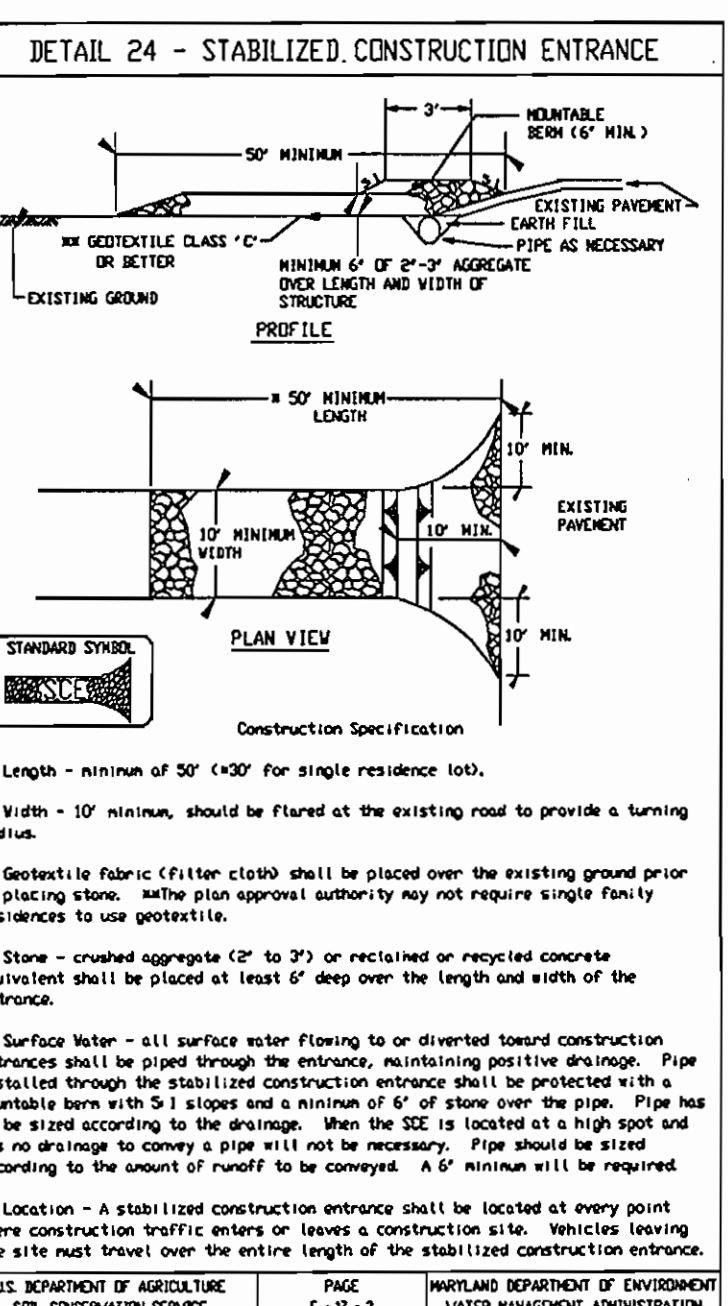
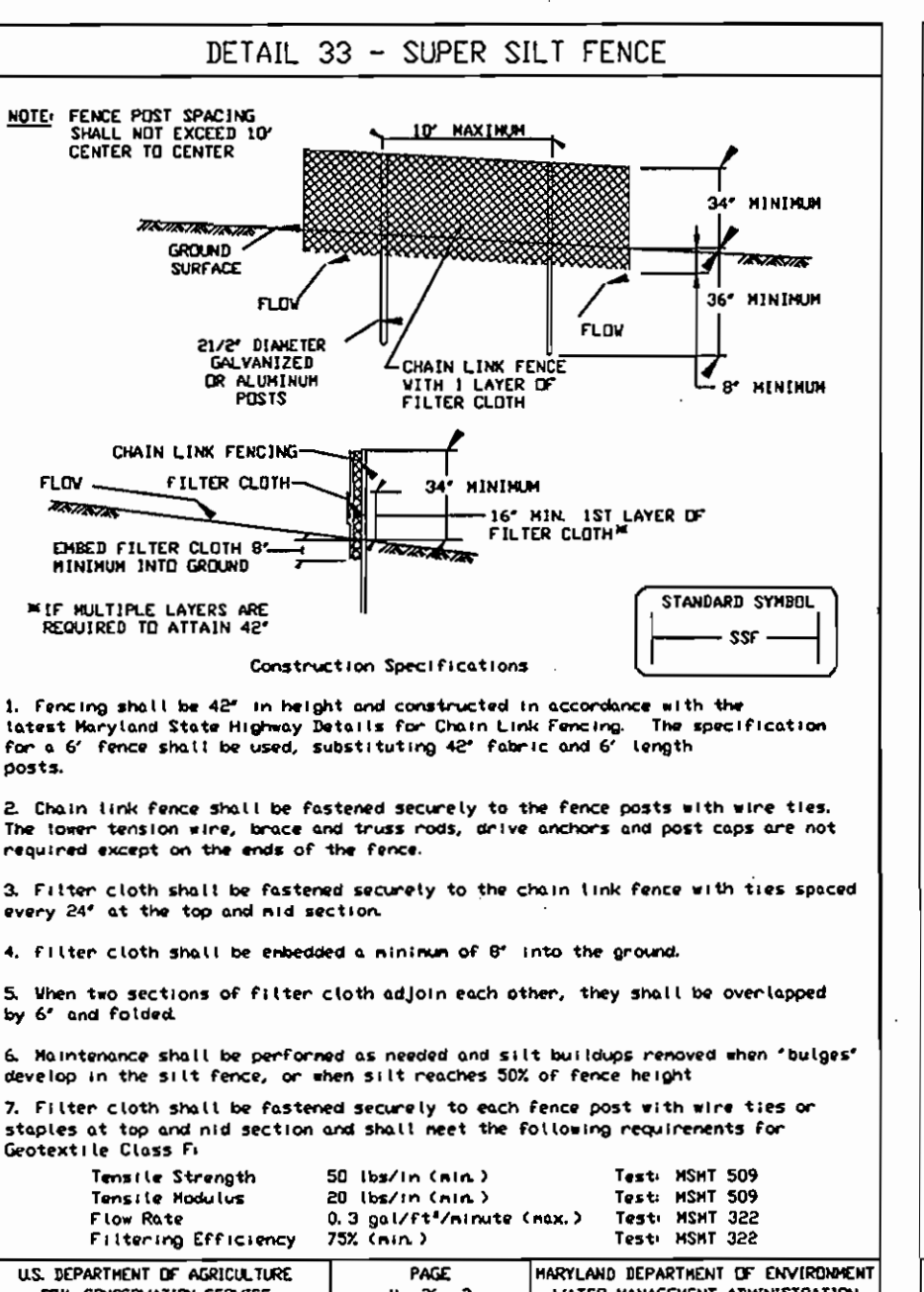
Silt Fence Design Criteria

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

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 - 33%	5:1 - 3:1	100 Feet
33 - 50%	3:1 - 2:1	100 Feet
50% +	2:1 +	50 Feet

U.S. DEPARTMENT OF AGRICULTURE, MARYLAND DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES



STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetation growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as specified. Typically, the depth of topsoil to be salvaged for a given set forth in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, 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 cinders, stones, slag, coarse fragments, gravel, silt, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

- For sites having disturbed areas under 5 acres:
 - On soil meeting Topsoil specifications, obtain test results indicating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 than 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

- Topsoil Application
- When topsoil, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
- 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 resulting from surface topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
- Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments commercial below:
- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institute, Revised 1975.

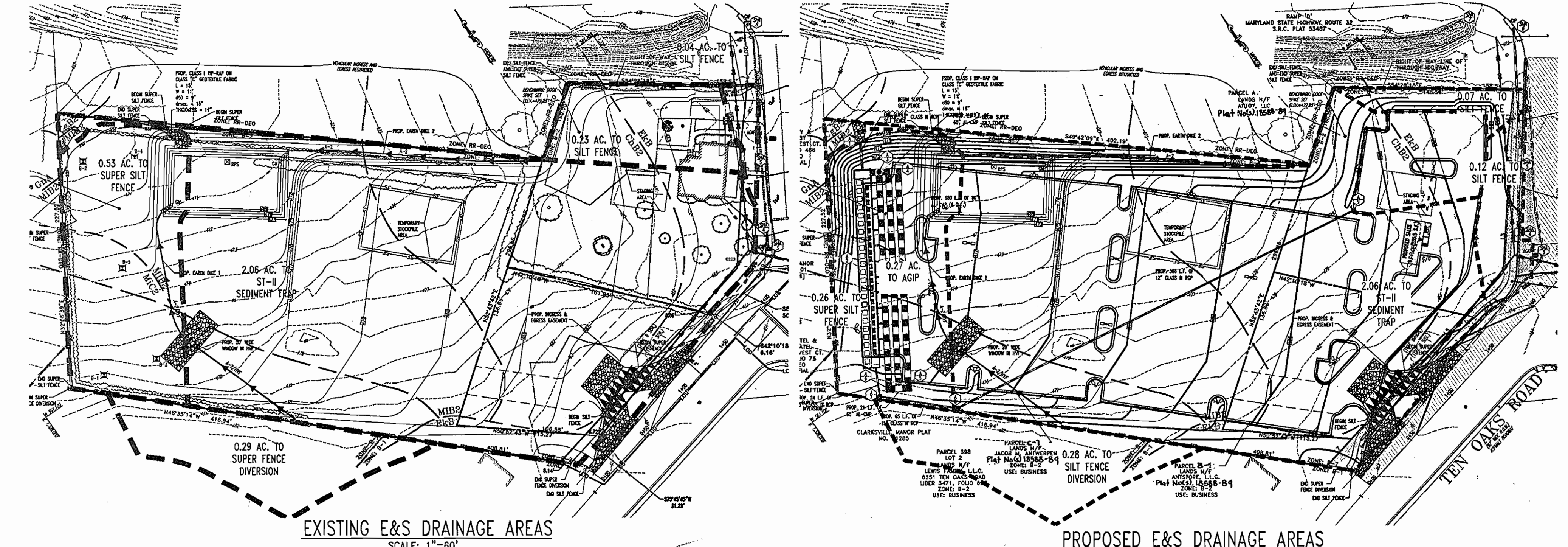
PERMANENT SEEDING SUMMARY

NO.	SPECIES	SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE 25		SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-20-20)			LIME RATE
		APPLICATION RATE (LB/AC)	SEEDING DATES			N	P ₂ O ₅	K ₂ O	
9	TALL FESCUE (86%)	120 LBS./AC. 23 LBS./1,000 SF.	3/1 - 5/15 8/15 - 10/15	1"	90 LB/AC (2.0 LB/1000 SF)	175 LB/AC (4 LB/1000 SF)	175 LB/AC (4 LB/1000 SF)	2 TONS/AC (100 LB/1000 SF)	
	PGA TRIVIALIS (7%)	10 LBS./AC. 23 LBS./1,000 SF.							
	BIRDFOOT TREFOIL (7%)	10 LBS./AC. 23 LBS./1,000 SF.							

TEMPORARY SEEDING SUMMARY

NO.	SPECIES	SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE 26		SEEDING DATES	SEEDING DEPTHS	FERTILIZER RATE (10-10-10)	LIME RATE
		APPLICATION RATE (LB/AC)	SEEDING DATES				
1	BARLEY	122 LBS./AC. 25 BU./1,000 SF.	3/1 - 4/30 8/15 - 10/15	1"-2"			
2	ANNUAL RYEGRASS	50 LBS./AC. 1.15 BU./1,000 SF.	3/1 - 4/30 8/15 - 11/1	1/4"-1/2"	600 LB/AC (15 LB/1000 SF)	2 TONS/AC (100 LB/1000 SF)	
3	TALL FESCUE	120 LBS./AC.	3/1 - 5/15	1"			

NOTE: FOR STANDARD AND SPECIFICATION FOR VEGETATIVE STABILIZATION, SEE SECTION G - "VEGETATIVE PRACTICES" IN THE "1994 MARYLAND STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."



CONSULTANT'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

Matthew T. Allen
PRINT NAME, TITLE
MD LICENSE NO. 28567
BOHLER ENGINEERING, P.C.
810 GLENDALES COURT, SUITE 300
TOWSON, MD 21286
ADDRESS
(410) 821-7900
TELEPHONE #

10/17/08
DATE

EQUITABLE OWNER/DEVELOPER'S CERTIFICATION

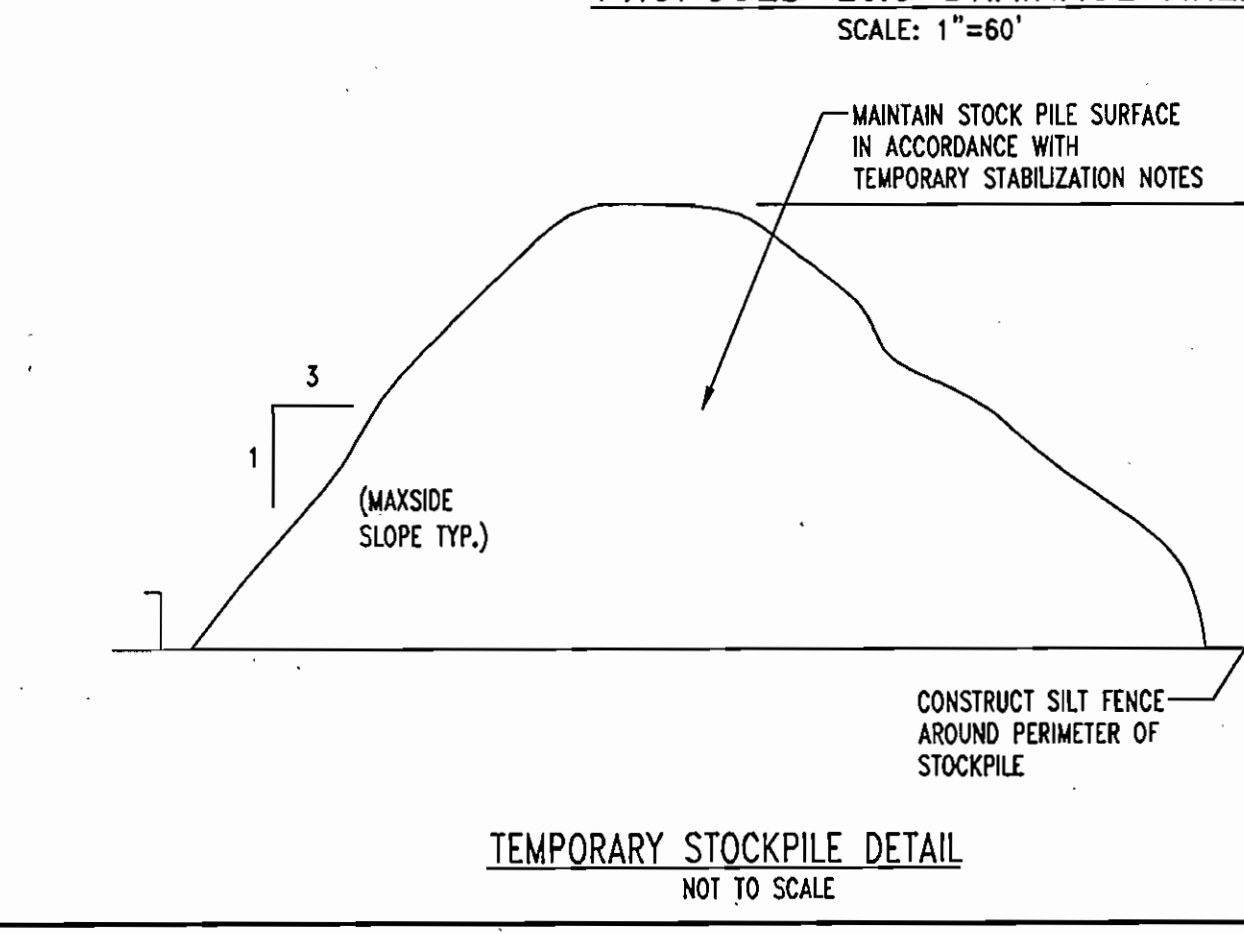
I/WE HEREBY CERTIFY THAT I/WE HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN AND THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

Jacob M. Antwerpen
PRINT NAME, TITLE
410-747-3333
TELEPHONE #

10/20/08
DATE

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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

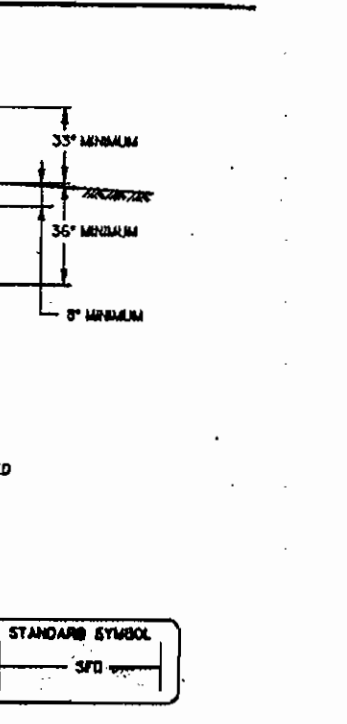


THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim Hayes, Inc. 10/20/08
NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Robert Allen 10/20/08
HOWARD SOIL CONSERVATION DISTRICT DATE



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief-Development Engineering Division 10/20/08 DATE

Chief-Division of Land Development 10/20/08 DATE

Director 10/20/08 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Robert Allen 10/20/08 DATE
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT 170D

NO.	DATE	REVISION DESCRIPTION
OWNERS		DEVELOPER
PARCEL A		JACOB M. ANTWERPEN
ANTOY, LLC		6631 BALTIMORE NATIONAL PIKE
12400 ROUTE 108		BALTIMORE, MARYLAND 21228
CLARKSVILLE, MARYLAND 21029		ATTN: JACOB ANTWERPEN
PARCEL B-1		Jacob Antwerpen
ANTSTORE, LLC		
6389 TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		
PARCEL C-1		
ANTWERPEN JACOB M		
6381 NW TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		

PROJECT: ANTWERPEN AUTOMOTIVE
12400 CLARKSVILLE PIKE
CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34 GRID 12 ZONED B-2
PARCELS A, B-1 and C-1
Plot No(s) 18586-89
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: EROSION & SEDIMENT CONTROL DETAILS

BOHLER ENGINEERING, P.C.

PROFESSIONAL ENGINEERING SERVICES
4810 GLENDALES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7907 | MDProfessional.com

DESIGNED BY: M.J.G.
DRAWN BY: J.J.L.
PROJECT NO.: MD032003.1
DATE: 07/06/2008
SCALE: 1"=30'
DRAWING NO. 8 OF 22

BEFORE YOU DIG CALL 1-800-221-7777 PROJECT YOURSELF ONE TWO 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 APPURTENANT.

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

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

- SPECIFICATIONS:
1. CLASS OF TURFGROSS SOD SHALL BE MARYLAND STATE CERTIFIED, OR MARYLAND STATE APPROVED SOD.
2. 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...

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 PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED ANY 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.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- 1. 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)
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
3. 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.

4. 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.
5. 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. G) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7. SITE ANALYSIS:
TOTAL SITE AREA - 3.16 A.C.
AREA DISTURBED - 3.33 A.C.
IMPERVIOUS AREA - 2.33 A.C.
PERVIOUS AREA - 0.83 A.C.
TOTAL CUT - 5.228 CU. YDS.
TOTAL FILL - 5.228 CU. YDS.

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

10. 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 GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11. 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.

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. HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 AREA/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. HARBOR OR DISC INTO UPPER THREE INCHES OF SOILS.

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 UNROTTED 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 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.

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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

- I. 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-SOS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

- II. 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 CINDERS, 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 BERNARDIA GRASS, QUACKGRASS, JOHNSON GRASS, MUTSEDOGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED, IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL.

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 2.0. 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 THE INTENTION TO FOLLOW THE REFERENCED 1994 EROSION AND SEDIMENT CONTROLS STANDARDS IN THEIR ENTIRETY.

TEMPORARY SEEDING NOTES

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

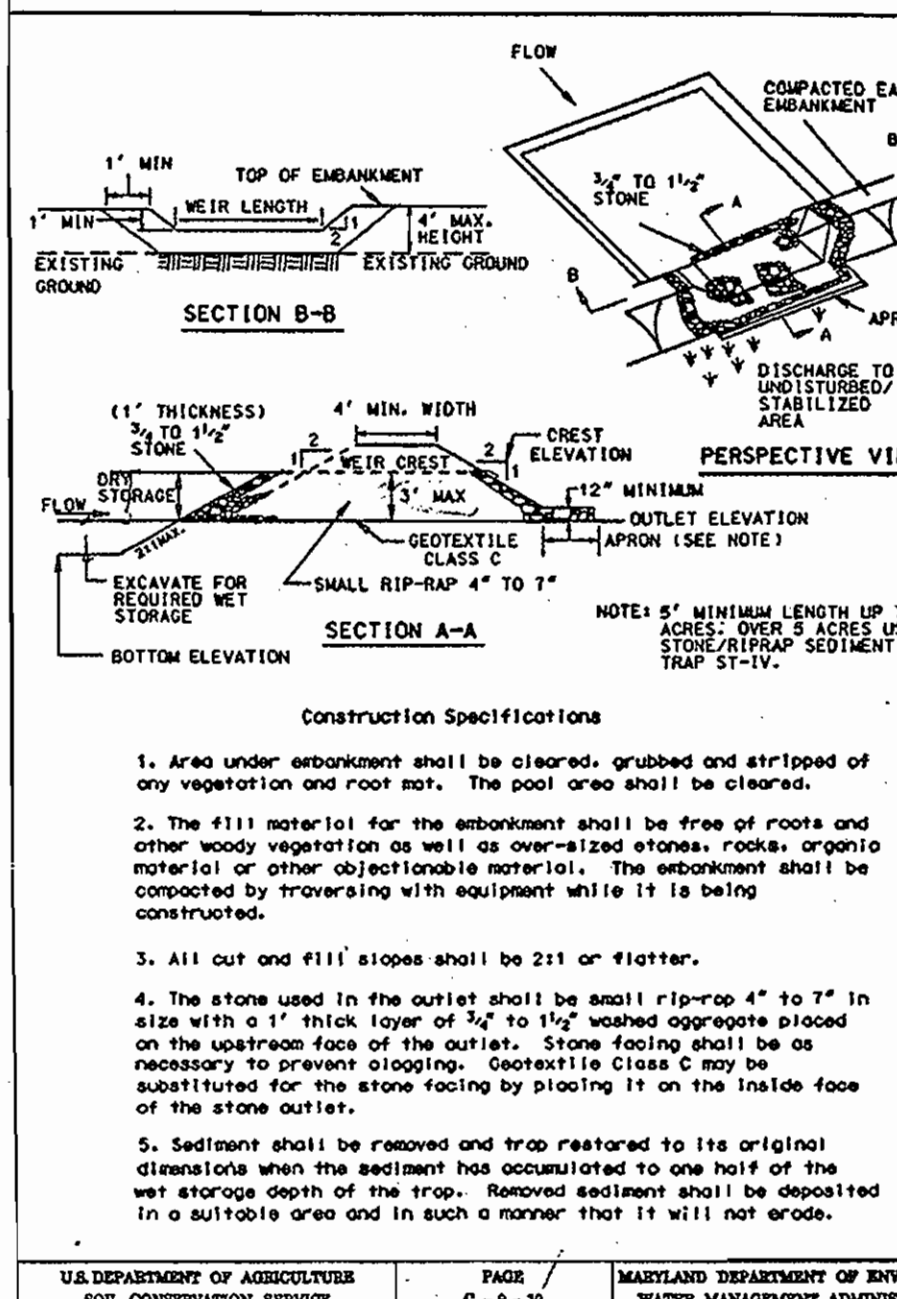
SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

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

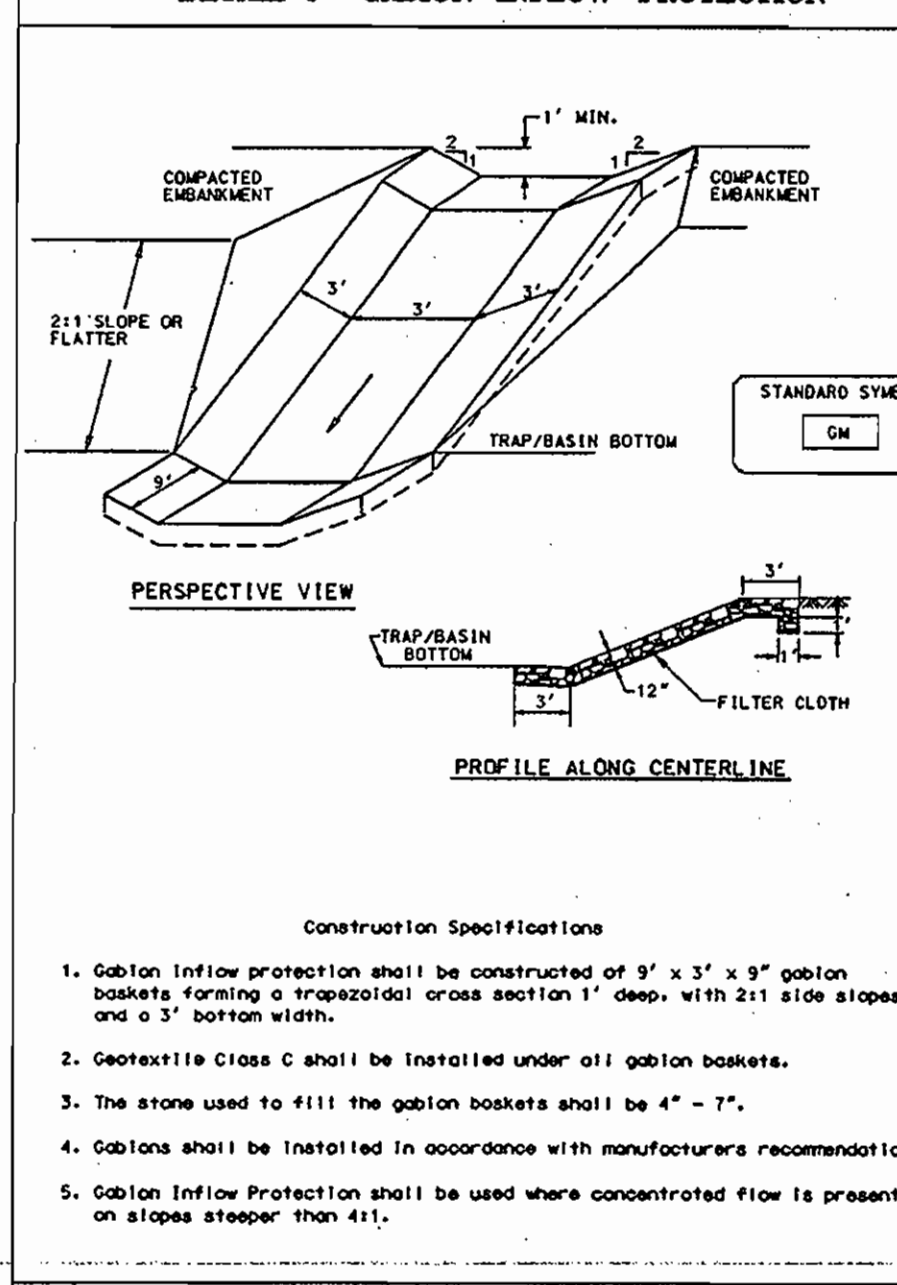
SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/3 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THROUGH 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 UNROTTED 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.

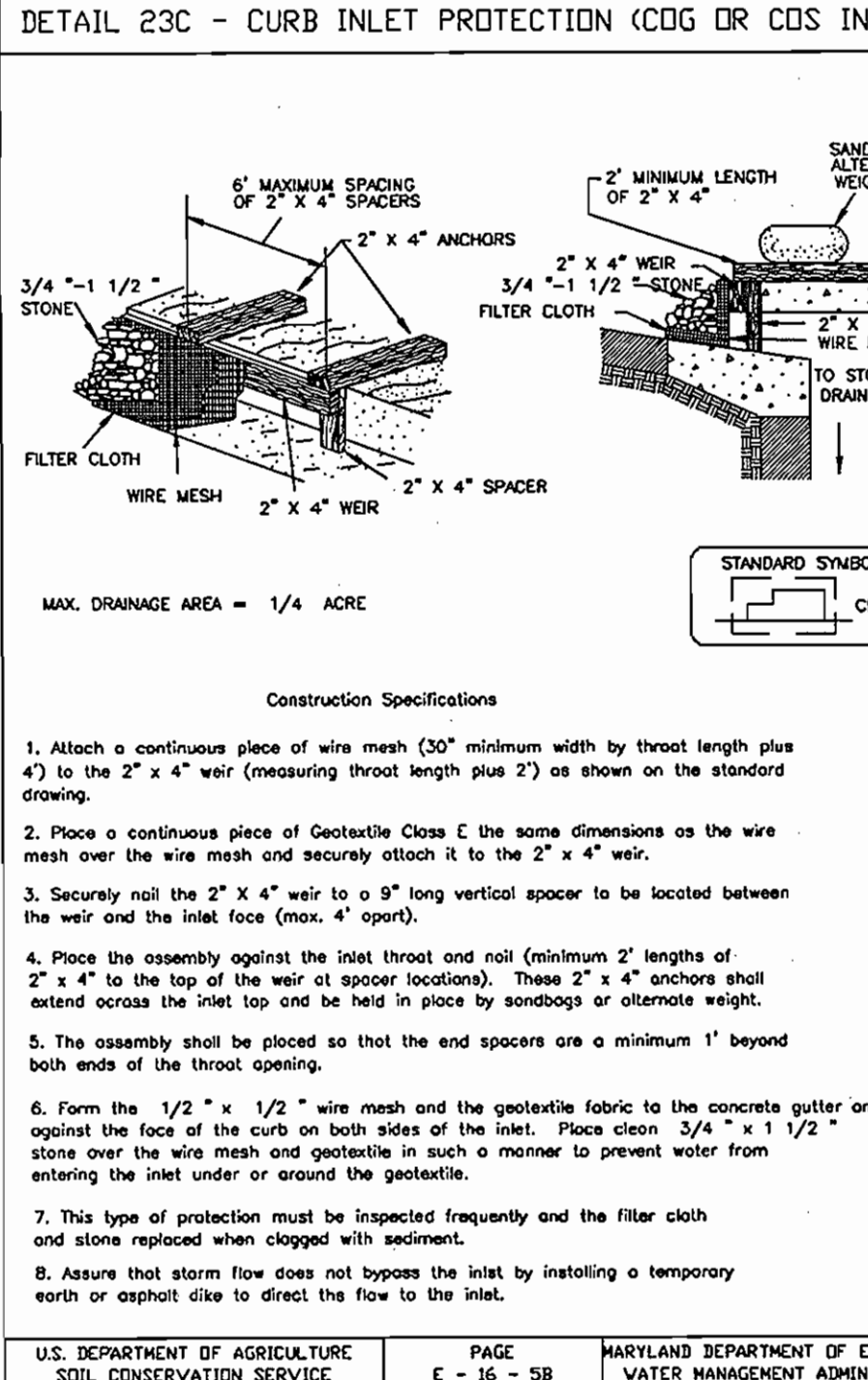
DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II



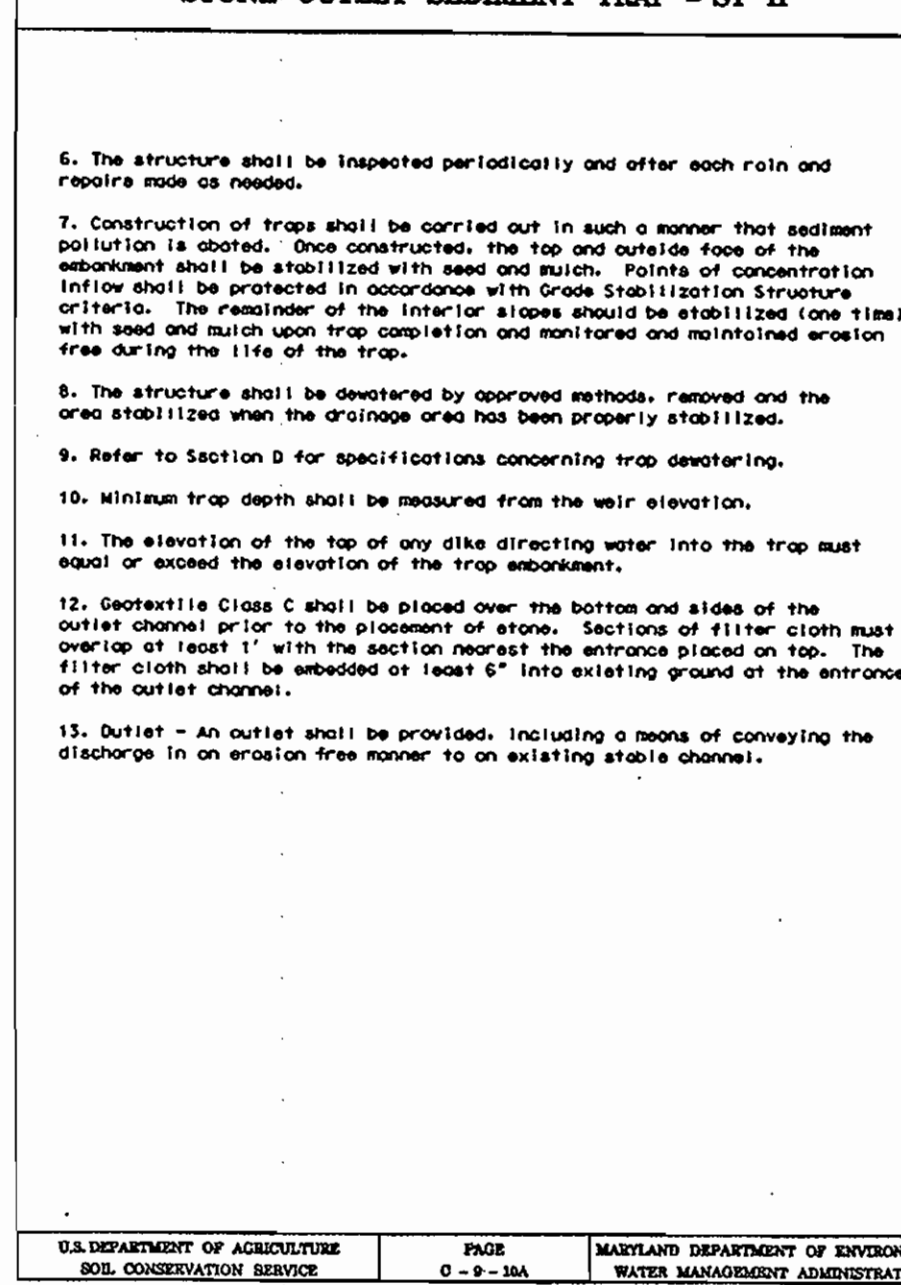
DETAIL 6 - GABION INFLOW PROTECTION



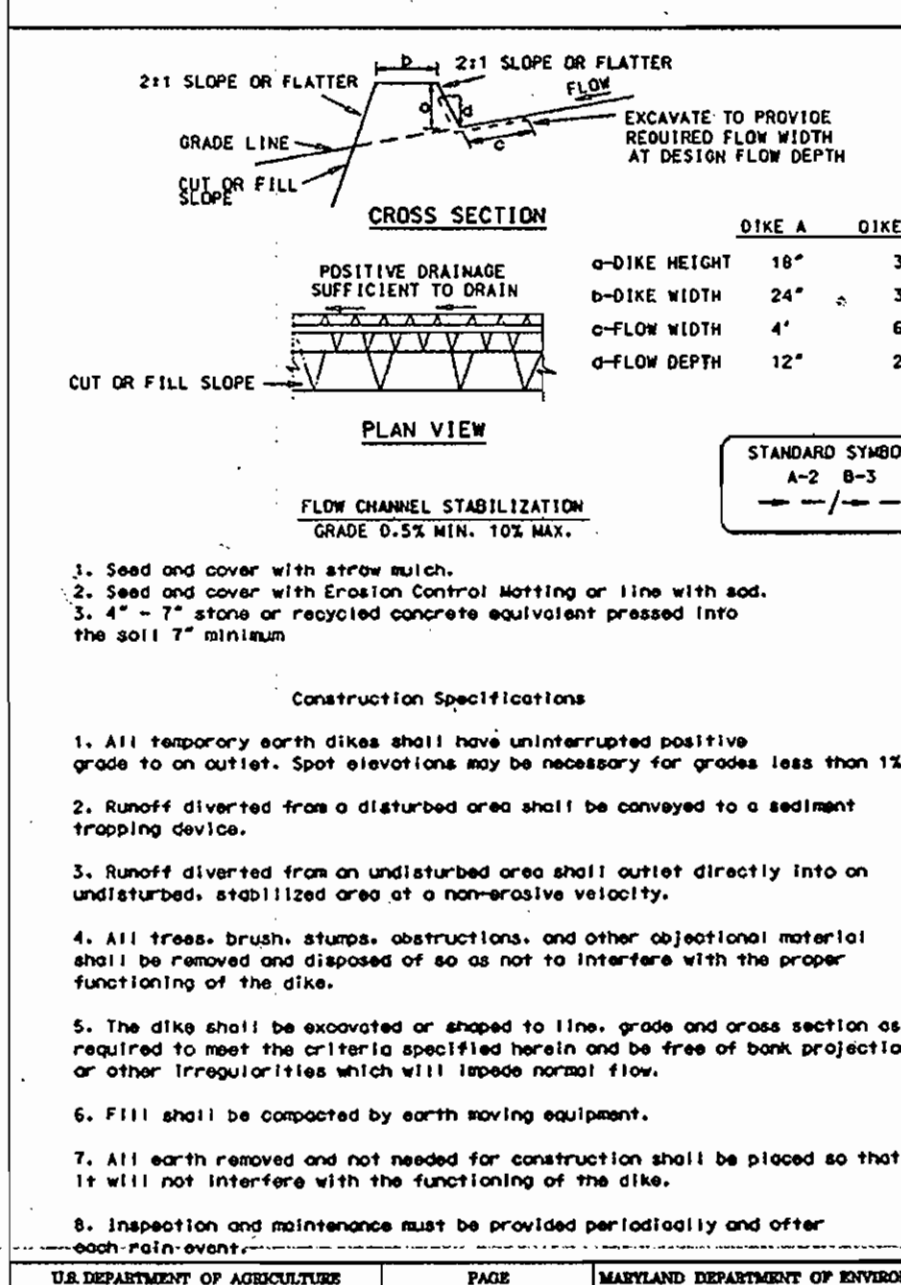
DETAIL 23C - CURB INLET PROTECTION (CIG OR CDS INLETS)



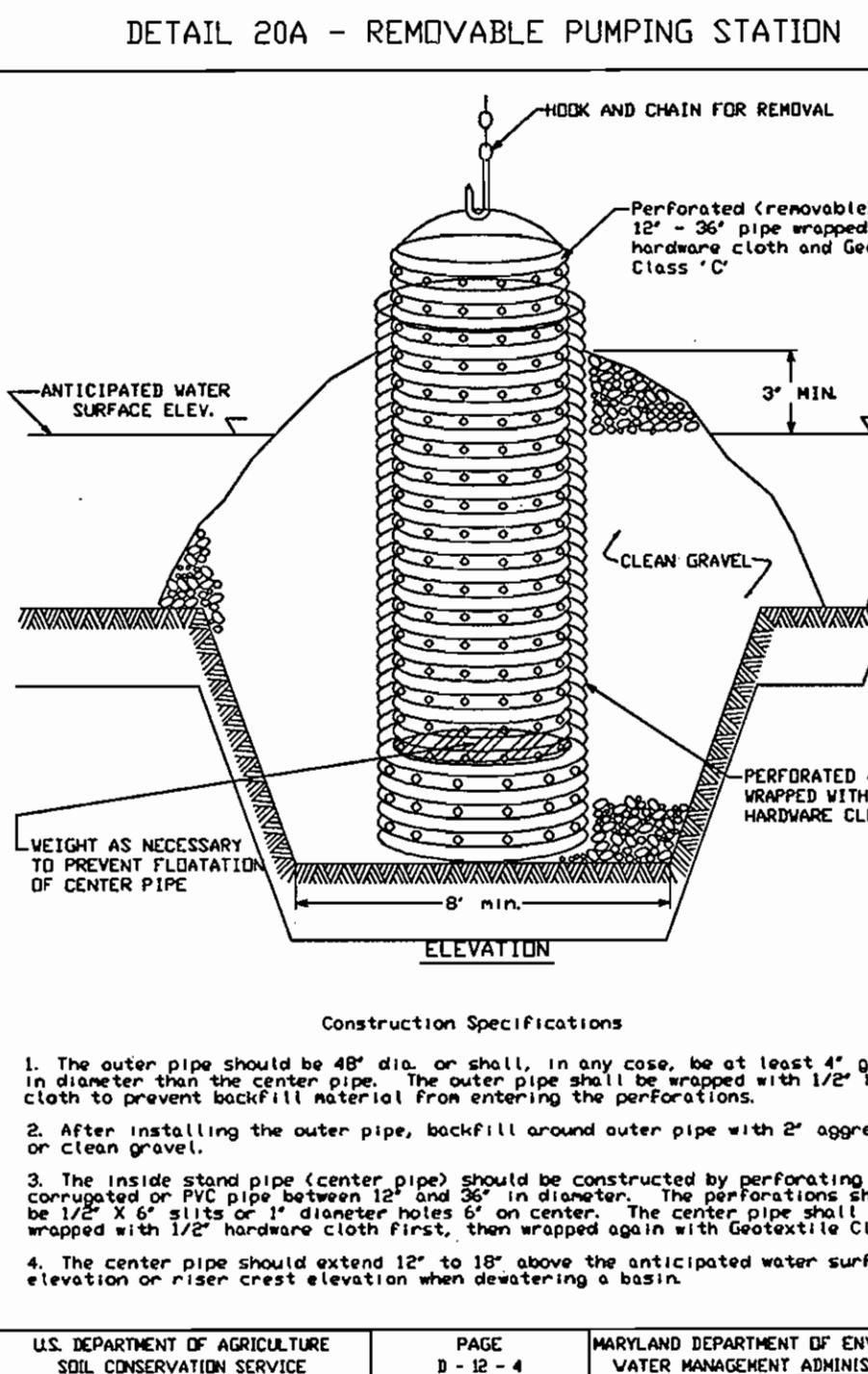
STONE OUTLET SEDIMENT TRAP - ST II



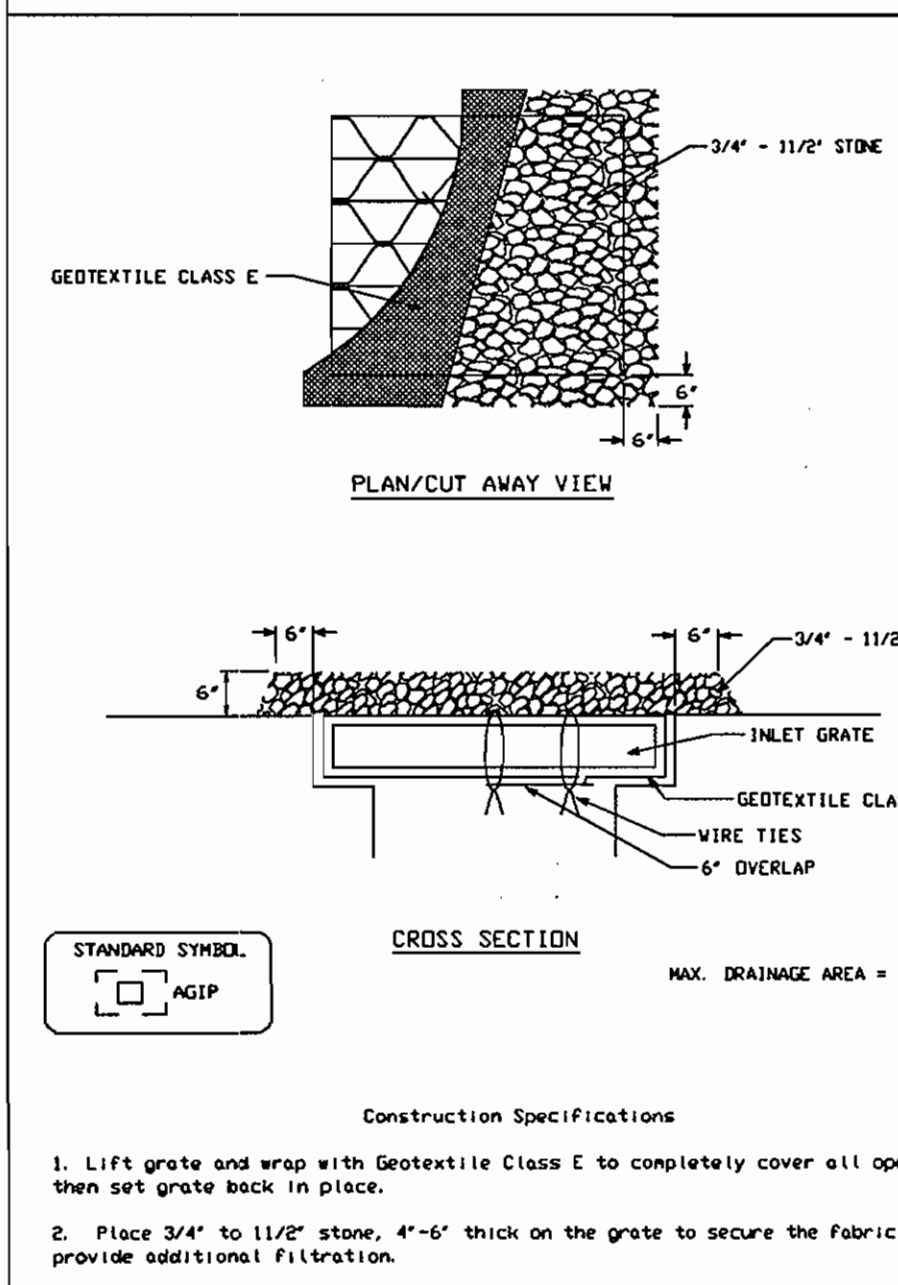
DETAIL 1 - EARTH DIKE



DETAIL 20A - REMOVABLE PUMPING STATION



DETAIL 23B - AT GRADE INLET PROTECTION



APPROVED: DEPARTMENT OF PLANNING AND ZONING

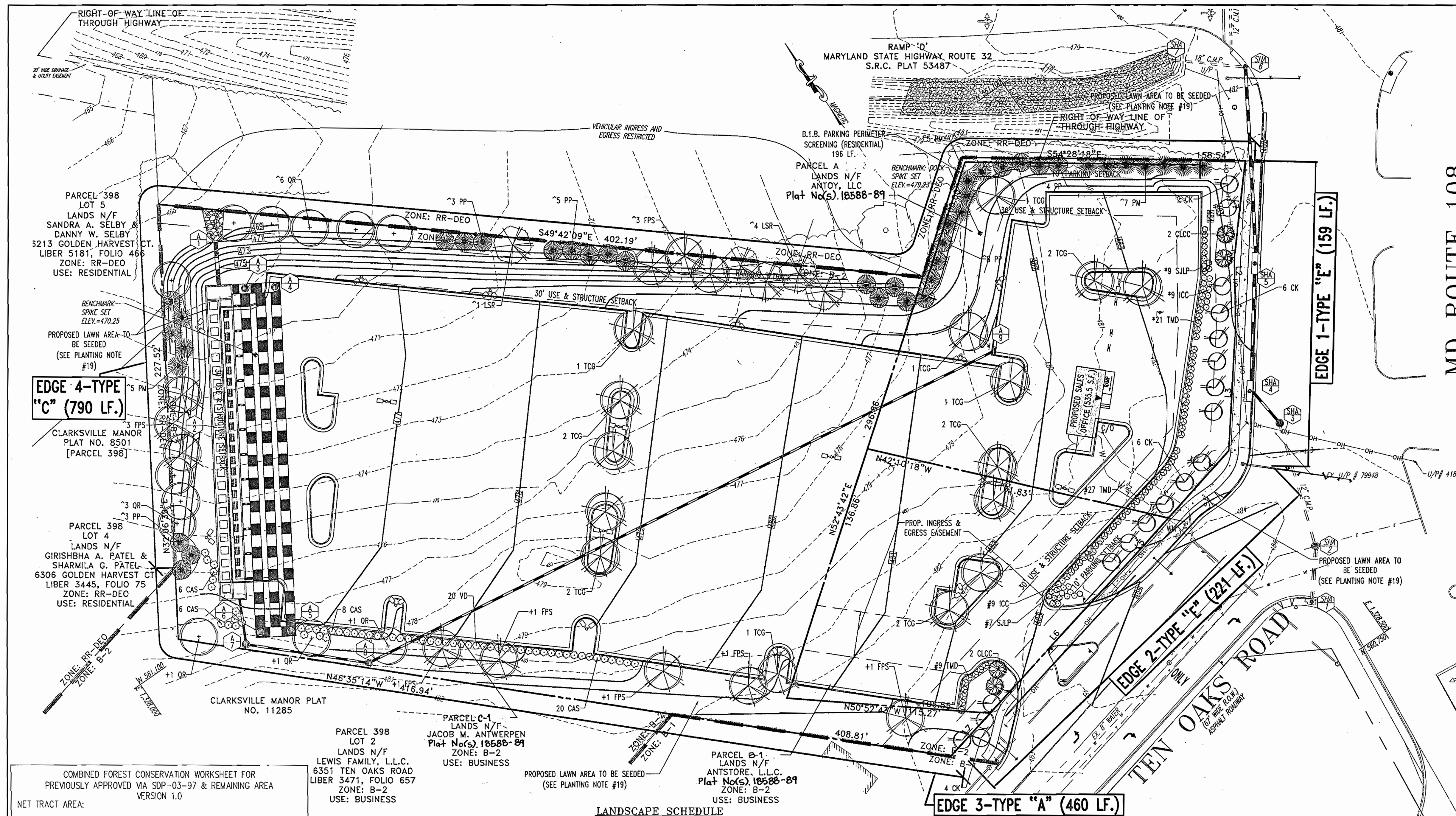
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
[Signatures and dates for approval]

APPROVED: DEPARTMENT OF PLANNING AND ZONING

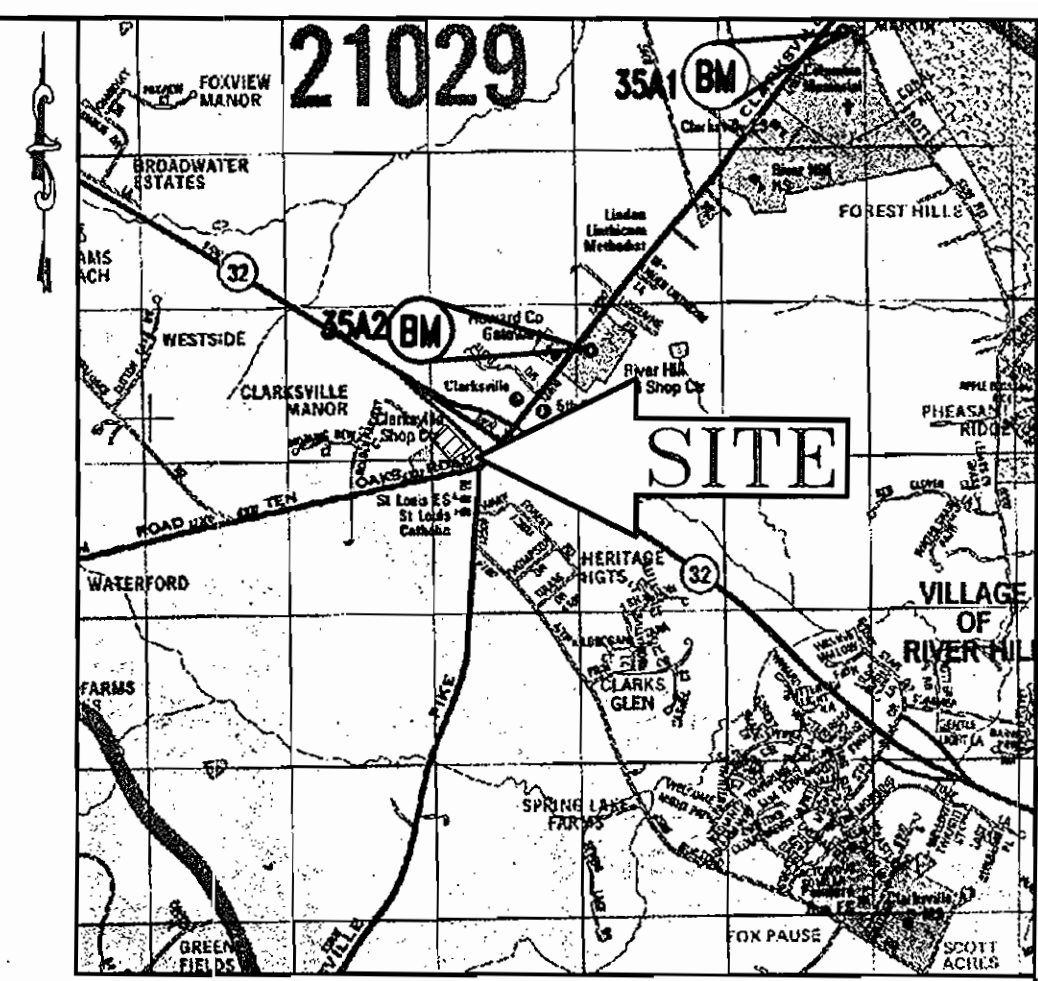
[Signatures and dates for approval]

NO. DATE REVISION DESCRIPTION

Project information block including owner (ANTON, LLC), developer (JACOB M. ANTWERPEN), project name (ANTWERPEN AUTOMOTIVE), area (12400 CLARKSVILLE PKE), and title (EROSION & SEDIMENT CONTROL DETAILS). It also includes a logo for BOHLER ENGINEERING, P.C. and a professional seal for Matthew T. Allen.



LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.68'
L4	S76°40'36"W	47.51'
L5	S76°40'36"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'



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

SCHEDULE A
 PERIMETER LANDSCAPE EDGE

PERIMETER	LANDSCAPE TYPE	PERIMETERS LESS CREDIT	LANDSCAPE CALCULATIONS
EDGE 1	TYPE "C"	159± LF	1:40 SHADE TREES, 14 SHRUBS REQUIRED: 153 / 40= 3.8 OR 4 TREES 153 / 40= 38.25 OR 38 SHRUBS PROPOSED: 8 CK (8 TREES), 9 CK, 9 S.A.P., AND 21 TMO (59 SHRUBS). * INDICATES PLANT MATERIAL UTILIZED TO MEET THIS REQUIREMENT
EDGE 2	TYPE "E"	221± LF	1:40 SHADE TREES 1:40 SHRUBS REQUIRED: 217/40= 5.4 OR 5 SHADE TREES 217/40= 54.2 OR 54 SHRUBS PROPOSED: 10 CK (10 TREES), 9 CK, 7 S.A.P., AND 38 TMO (54 SHRUBS). # INDICATES PLANT MATERIAL UTILIZED TO MEET THIS REQUIREMENT
EDGE 3	TYPE "A"	460± LF	1:60 SHADE TREES REQUIRED: 400/60= 6.66 OR 8 SHADE TREES PROPOSED: 5 FPS, AND 3 OR (6 TREES) + INDICATES PLANT MATERIAL UTILIZED TO MEET THIS REQUIREMENT
EDGE 4	TYPE "C"	790± LF	1:40 SHADE TREES 1:20 EVERGREEN TREES REQUIRED: 790/40= 19.75 OR 20 SHADE TREES PROPOSED: 6 FPS, 5 LSR, 9 OR (20 SHADE TREES) 23 PP AND 17 PM (40 EVERGREEN TREES) * INDICATES PLANT MATERIAL UTILIZED TO MEET THIS REQUIREMENT

COMBINED FOREST CONSERVATION WORKSHEET FOR PREVIOUSLY APPROVED VIA SDP-03-97 & REMAINING AREA VERSION 1.0

NET TRACT AREA:

A. Total tract area.....	3.15
B. Area within 100 year floodplain.....	0.00
C. Area to remain in agricultural production.....	0.00
D. Net tract area.....	3.15

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

ARA	MDR	IDA	HOR	MPD	CIA
0	0	0	0	0	1

E. Afforestation Threshold..... 15% x D = 0.47
 F. Conservation Threshold..... 15% x D = 0.47

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.....	0.47
T. Total reforestation and afforestation required.....	0.47
U. 0.36 AC. x 43560 S.F./ACRE x \$0.50/S.F. =	\$10,236.00

LANDSCAPE SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SHADE TREE(S)					
FPS	11	FRAXINUS PENNSYLVANICA 'SUMMIT'	SUMMIT GREEN ASH	2 1/2-3" CAL.	B+B
LSR	5	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	SEEDLESS SWEETGUM	2 1/2-3" CAL.	B+B
OR	12	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	B+B
TCG	15	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	2 1/2-3" CAL.	B+B
EVERGREEN TREE(S)					
PM	17	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6-7"	B+B
PP	23	PICEA PUNGENS	COLORADO SPRUCE	6-7"	B+B
EVERGREEN SHRUB(S)					
ICC	18	ILEX CRENATA 'COMPACTA'	COMPACT JAPANESE HOLLY	24-30"	#3 CAN
TMO	57	TAXUS X MEDIA 'DENSIFORMIS'	DENSIFORMIS YEW	24-30"	B+B
DECIDUOUS SHRUB(S)					
CAS	40	CORNUS ALBA 'SIBIRICA'	SIBERIAN DOGWOOD	2-3"	B+B
SILP	16	SPIREA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	15-18"	#3 CAN
VD	20	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3-4"	B+B
ORNAMENTAL TREE(S)					
CK	18	CORNUS KOUSA	KOUSA DOGWOOD	8'-10"	B+B
CLCC	4	CRATAEGUS LAEVIGATA 'CRIMSON CLOUD'	CRIMSON CLOUD HAWTHORN	2-2 1/2" CAL.	B+B

NOTES: 1. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
 2. THE DEVELOPER IS RESPONSIBLE TO MAINTAIN THE RIGHT-OF-WAY BUFFER

SCHEDULE B
 PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	260
NUMBER OF TREES REQUIRED:	260/20 SPACES = 13
NUMBER OF LANDSCAPED ISLANDS REQUIRED:	260/20 SPACES = 13
NUMBER OF TREES PROVIDED:	15 TCG
LANDSCAPED ISLANDS	14

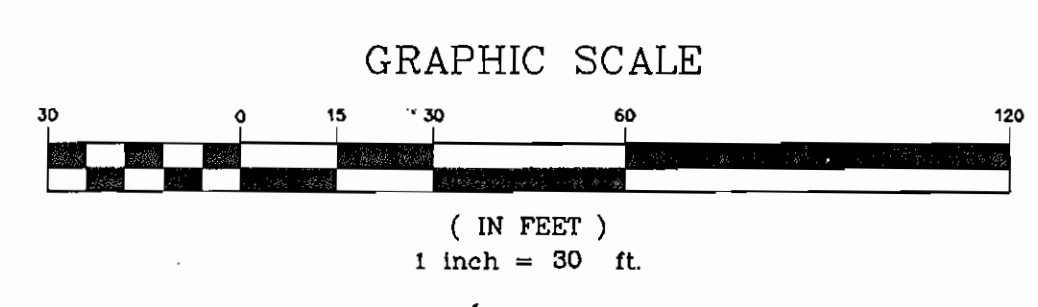
FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$30,030 FOR 65 SHADE TREES, 40 EVERGREEN TREES AND 151 SHRUBS.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

A PORTION OF THE FOREST CONSERVATION OBLIGATION OF 0.36 ACRES HAS BEEN PREVIOUSLY ADDRESSED UNDER FILE #SDP-03-97 AS A FEE IN LIEU PAYMENT IN THE AMOUNT OF \$7,840.40. THE REMAINDER OF THE FOREST CONSERVATION REQUIREMENT WILL BE MET UNDER THIS CURRENT SDP (3.16 AC. - 2.42 AC.) = 0.74 AC. @ \$2,395.80 AS A FEE IN LIEU PAYMENT

SEE SHEET 11 FOR LANDSCAPE NOTES, SPECIFICATIONS AND DETAILS

THIS PLAN IS TO BE UTILIZED FOR LANDSCAPING ONLY.



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.

Jacob Antwerpen 10/16/06
 OWNER DATE

John A. ... 11/29/06
 PREPARED BY DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John A. ... 10/16/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

John A. ... 10/16/06
 CHIEF-DIVISION OF LAND DEVELOPMENT DATE

John A. ... 10/16/06
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Robert W. ... 10/30/06
 COUNTY HEALTH OFFICER DATE

John A. ... 10/16/06
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION

OWNERS: PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN

PARCEL B-1 ANTWERPEN, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029

PARCEL C-1 ANTWERPEN JACOB M. 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s). 16588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: FOREST CONSERVATION & LANDSCAPE PLAN

Bohler Engineering, P.C.

PROFESSIONAL ENGINEERING SERVICES
 810 GREENGLASS COURT, SUITE 300, FOWSON, MD 21066
 (410) 21-7998 FAX (410) 21-7871

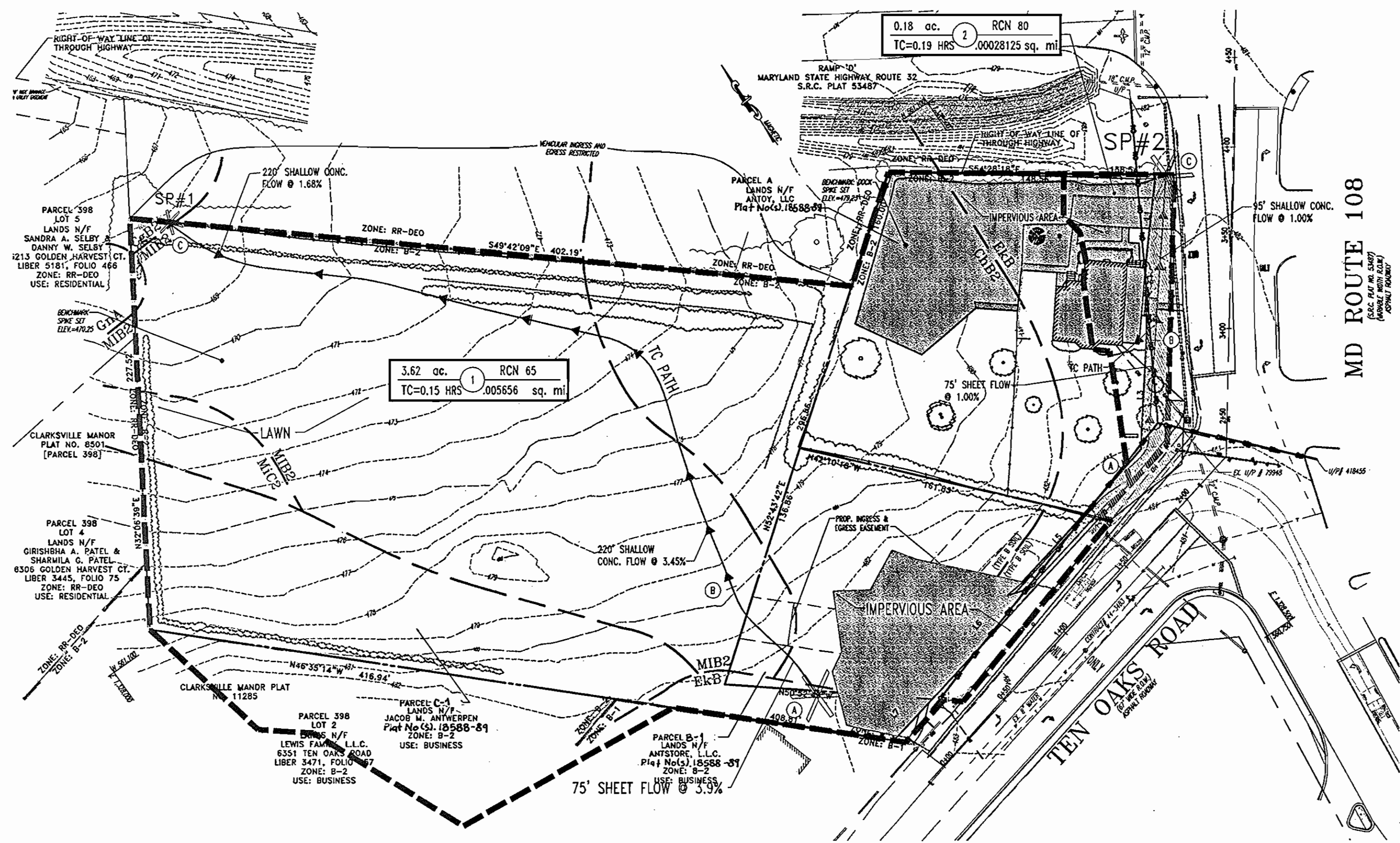
10/17/06

DESIGNED BY: M.J.G.
 DRAWN BY: J.L.L.
 PROJECT NO.: MD032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 10 OF 22

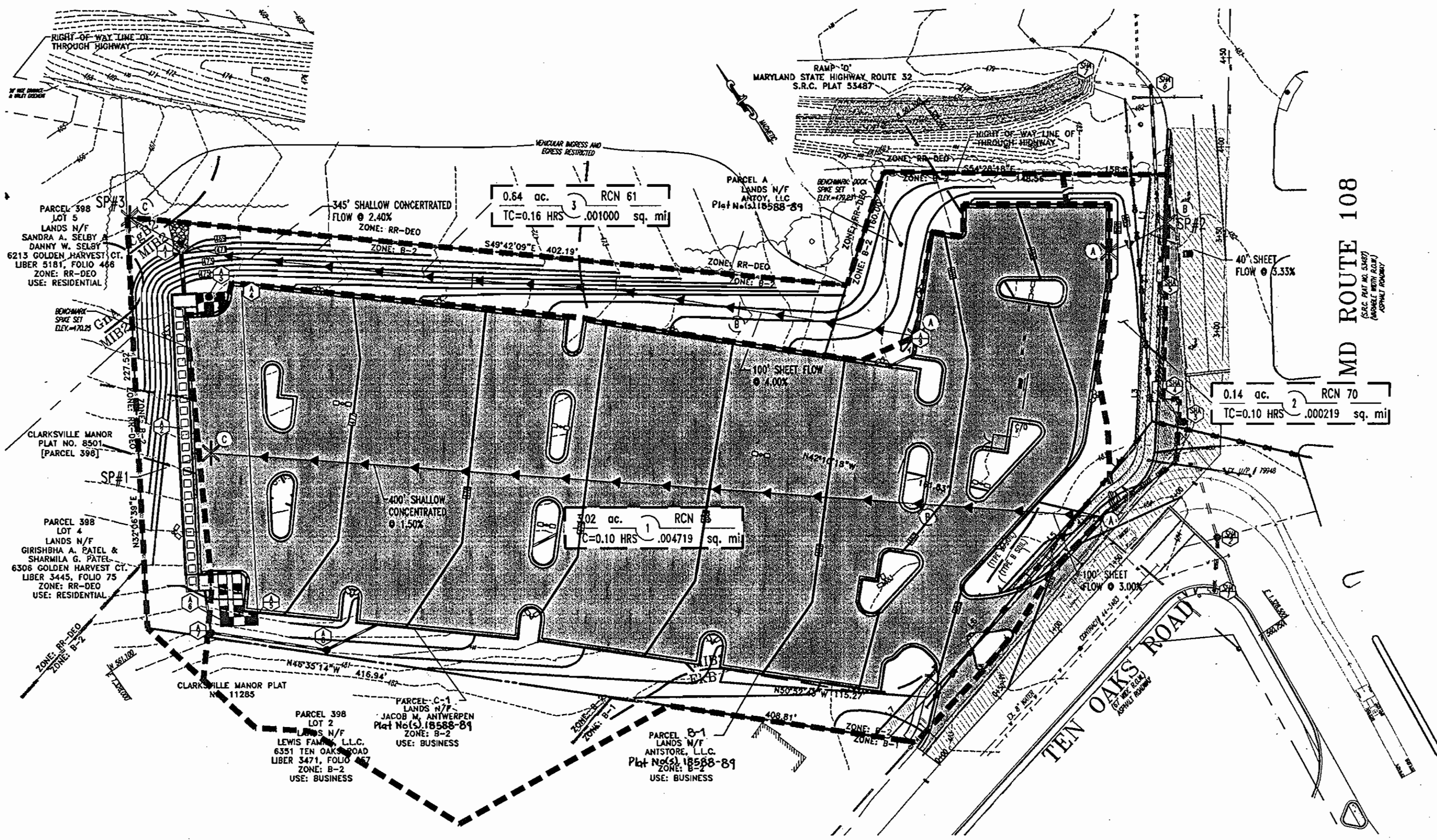
BEFORE YOU DO CALL
 1-800-251-7777
 PROTECT YOURSELF, ONE TWO WORKING DAYS NOTICE

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 APPROPRIATE.

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



PRE-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1"=50'



POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1"=50'

LEGEND



- ① TOTAL AREA: 157,687 S.F. OR 3.62 AC.
IMPERVIOUS AREA: 20,473 S.F. OR 0.47 A.C.
PERVIOUS AREA: 137,214 S.F. OR 3.15 AC.
- ② TOTAL AREA: 7,656 S.F. OR 0.18 AC.
IMPERVIOUS AREA: 4,792 S.F. OR 0.11 A.C.
PERVIOUS AREA: 2,864 S.F. OR 0.07 AC.

- ① TOTAL AREA: 131,551 S.F. OR 3.02 AC.
IMPERVIOUS AREA: 99,752 S.F. OR 2.29 A.C.
PERVIOUS AREA: 31,799 S.F. OR 0.73 AC.
- ② TOTAL AREA: 6,098 S.F. OR 0.14 AC.
IMPERVIOUS AREA: 1,742 S.F. OR 0.04 A.C.
PERVIOUS AREA: 4,356 S.F. OR 0.10 AC.
- ③ TOTAL AREA: 27,878 S.F. OR 0.64 AC.
IMPERVIOUS AREA: 0 S.F. OR 0.00 A.C.
PERVIOUS AREA: 27,878 S.F. OR 0.64 AC.

SWM SUMMARY TABLE		
TYPE	REQUIRED	PROVIDED
WQV	9,409 CF (75% = 7,057)	7,068 CF
REV	2,614 CF	2,614 CF
CPV	8,978 CF	11,430 CF
QP ₀	N/A	N/A
QP ₁₀₀	N/A	N/A

"SITE AREA" = 2.69 AC.

- NOTE:
- STORMWATER MANAGEMENT COMPUTATIONS FOR WQV, REV, & CPV ARE BASED ON THE TOTAL ON-SITE AREA AS 85% IMPERVIOUS COVER. 3.16 AC. x 0.85 = 2.69 AC. TOTAL IMPERVIOUS.
 - WATER QUALITY AND QUANTITY REQUIREMENTS FOR THE PROPOSED SITE WILL BE HANDLED BY A PRIVATE UNDERGROUND SANDFILTER AND DETENTION FACILITY WITH A HAZARD CLASSIFICATION OF 'A'.

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING
Wm. Dammann 10/25/06
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE
David Chappin 11/21/06
CHIEF-DIVISION OF LAND DEVELOPMENT DATE
David L. Taylor 11/21/06
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Robert J. Waler 10/30/06
CLERK OF HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS	PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	DEVELOPER JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
	PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	<i>Jacob Antwerpen</i>
	PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	

PROJECT: ANTWERPEN AUTOMOTIVE
12400 CLARKSVILLE PIKE,
CLARKSVILLE, HOWARD COUNTY, MARYLAND
AREA: TAX MAP 34 GRID 12 ZONED B-2
PARCELS A, B-1 AND C-1
Plat No(s) 18588-B1
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TITLE: SWM DRAINAGE AREA MAPS

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
8110 CLARKSVILLE COUNTY, SUITE 300, TOWSON, MD 21286
(410) 851-7900 FAX: (410) 851-7987 | www.bohlereng.com

10/17/06
DESIGNED BY: M.J.G.
DRAWN BY: J.J.L.
PROJECT NO.: MD032003.1
DATE: 07/06/2006
SCALE: 1"=30'
DRAWING NO. 12 OF 22

MISS UTILITY

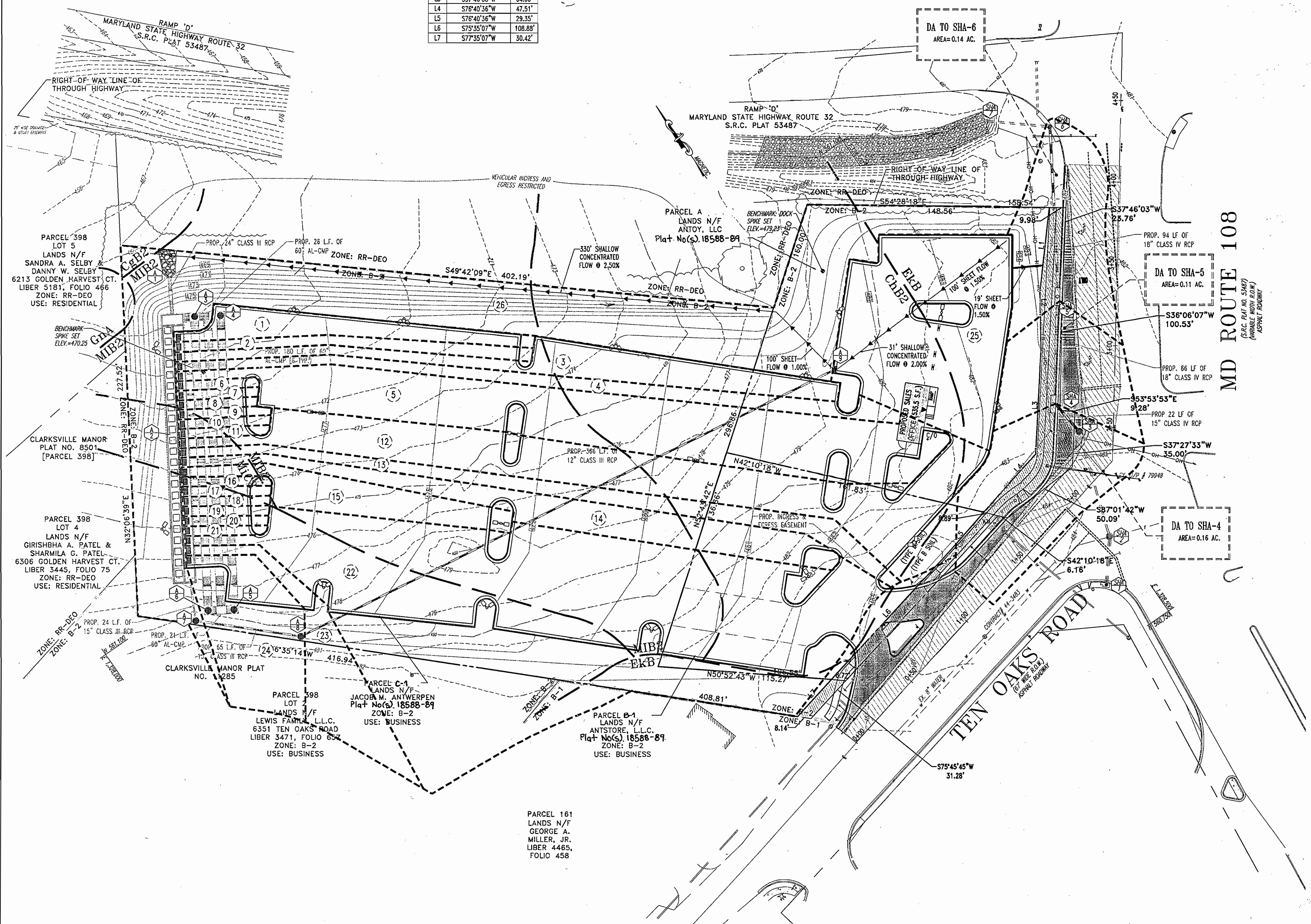


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THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

LINE	BEARING	DISTANCE
L1	S41°08'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
L4	S76°40'36"W	47.51'
L5	S76°40'36"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'

STORMDRAIN DRAINAGE AREAS				
DRAINAGE AREA	RCN	TC=	TOTAL AREA (AC.)	TOTAL AREA (SQ. MI.)
1	71	0.01	0.06	0.000084
2	71	0.01	0.04	0.000063
3	72	0.01	0.12	0.000188
4	72	0.01	0.09	0.000141
5	72	0.01	0.36	0.000563
6	67	0.01	0.01	0.000016
7	67	0.01	0.01	0.000016
8	67	0.01	0.01	0.000016
9	63	0.01	0.01	0.000016
10	63	0.01	0.01	0.000016
11	63	0.01	0.01	0.000016
12	72	0.01	0.29	0.000463
13	71	0.01	0.11	0.000172
14	68	0.01	0.14	0.000219
15	69	0.01	0.07	0.000109
16	67	0.01	0.01	0.000016
17	67	0.01	0.01	0.000016
18	67	0.01	0.01	0.000016
19	67	0.01	0.01	0.000016
20	67	0.01	0.01	0.000016
21	67	0.01	0.01	0.000016
22	48	0.01	0.58	0.000914
23	27	0.01	0.10	0.000156
24	27	0.01	0.15	0.000234
25	92	0.01	0.24	0.000375
26	70	0.01	0.85	0.001016



- SOIL TYPES**
- ChB2 CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED
 - EkA ELIOAK SILT LOAM, 0-3% SLOPES UNERODED OR SLIGHTLY ERODED
 - MiB2 MANOR LOAM, 3-8% SLOPES MODERATELY ERODED
 - MiC2 MANOR LOAM, 8-15% SLOPES MODERATELY ERODED
 - GnA GLENVILLE SILT LOAM, 0+3% SLOPES
 - CgB2 CHESTER GRAVELLY SILT LOAM, 3-8% SLOPES-MODERATELY ERODED

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/25/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: DIVISION OF LAND DEVELOPMENT
[Signature] 11/14/06
 CHIEF-DIVISION OF LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/30/06
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS	DEVELOPER	
PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN	
PARCEL B-1 ANTSTORE, LLC 6589 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	Jacob Antwerpen	
PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		

PROJECT ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s). 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE STORMDRAIN DRAINAGE AREA MAP

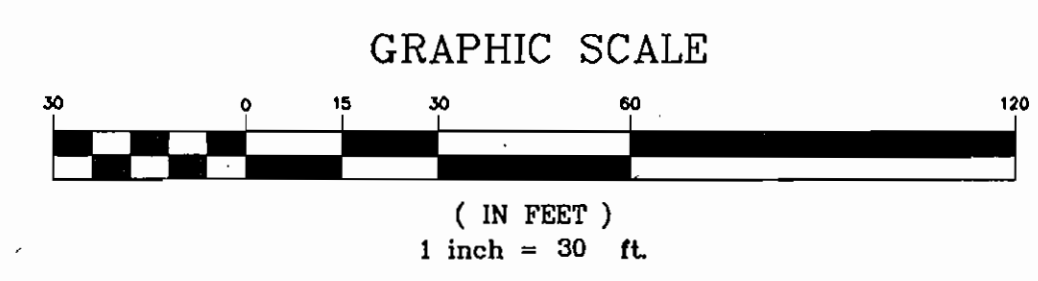
BOHLER ENGINEERING, P.C.
 *PROFESSIONAL ENGINEERING SERVICES
 #110 GREENGLASS COURT, SUITE 300, TOWSON, MD 21286
 #410 85-700 PAV. CTR. BELT RAIL, BOWLING GREEN, MD

DESIGNED BY: M.J.G.
 DRAWN BY: J.J.L.
 PROJECT NO.: W032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 13 OF 22

10/17/06

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

GENERAL NOTE:
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INSTALLATION SPECIFICATIONS

A. SITE PREPARATION:
 AREAS UNDER THE CULVERTS, STRUCTURAL WORKS, AND STREAM DIVERSION SHALL BE CLEARED, GRUBBED, AND THE TOPSOIL STRIPPED TO REMOVE ALL TREES, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE MATERIAL.

B. SPECIFICATION FOR CORRUGATED STEEL PIPE:

- DESCRIPTION: THE ALUMINIZED TYPE II CORRUGATED STEEL SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO DESIGNATION M-274 FROM A BASE METAL MANUFACTURED IN ACCORDANCE WITH A-525 COATED UNIFORMLY ON BOTH SIDES WITH 1.00 OZ/SQ FT. OF PURE ALUMINUM.
- MATERIAL: THE CORRUGATED METAL SHALL BE MANUFACTURED WITH CONTINUOUS LOCKSEAM OR BUTT WELDED HELICAL CORRUGATIONS AND HAVING NO LESS THAN TWO ANNUAL CORRUGATIONS REROLLED AND BOTH ENDS OF ANY LENGTH OF PIPE. COUPLING BANDS SHALL BE FORMED WITH TWO CORRUGATIONS THAT ARE SPACED TO PROVIDE SEATING IN THE SECOND REROLLED CORRUGATION ON EACH PIPE END. COUPLING BANDS SHALL BE DRAWN TOGETHER BY TWO 1/2" GALVANIZED BOLTS THROUGH THE USE OF A BAR AND STRAP SUITABLY WELDED TO THE BAND. RUBBER "O" RING TYPE GASKETS, CONFORMING TO THE REQUIREMENTS OF SECTION 5.9 IN ASTM C-361, SHALL BE PLACED IN THE FIRST CORRUGATION OF EACH PIPE END AND SHALL BE COMPRESSED BY TIGHTENING THE COUPLING BAND. ALL ALUMINIZED SURFACES THAT WILL BE IN CONTACT WITH WATER SHALL BE IN COAT OF ZINC CHROMATE PRIMER.
- INSTALLATION: THE CORRUGATED METAL PIPE SHALL BE HANDLED IN A MANNER NOT TO DAMAGE THE PIPE OR COATING. BEDDING AND BACK FILL MATERIAL SHALL BE SELECTED, GRANULAR MATERIAL, AND SHALL BE FREE OF ROCKS AND HARD BODIES LARGER THAN 3 INCHES IN SIZE. THE BEDDING AND BACK FILL MATERIAL SHALL BE CAREFULLY PLACED AND CONSOLIDATED EVENLY ON BOTH SIDES OF THE PIPE IN MAXIMUM 8" LOOSE LIFTS. THE PH OF THE SURROUNDING SOILS SHALL BE LESS THAN NINE (9) AND GREATER THAN FOUR (4). THE MATERIAL MUST COMPLETELY FILL ALL SPACES UNDER AND ADJACENT TO THE STRUCTURE OR PIPE. AT NO TIME DURING THE BACK FILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR (4) FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DRIVE EQUIPMENT OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR (24) INCHES OR GREATER OVER THE STRUCTURE OR PIPE.

SOILS NOTES

- FOOTING DESIGN BASES ON ASSUMES MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 PSF. 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 PROCTOR DRY DENSITY.

REQUIRED PROCEDURES AND INSPECTIONS FOR UNDERGROUND SWM/WATER QUALITY FACILITY

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

- PRE-CONSTRUCTION MEETING: AN OPPORTUNITY TO REVIEW SITE PLANS, DISCUSS THE PURPOSE OF THE FACILITY AND TO ANSWER QUESTIONS REGARDING CONSTRUCTION AND/OR INSPECTION PROCEDURES.
- CONSTRUCTION: INSPECTION(S) WILL BE MADE DURING THE CONSTRUCTION OF THE FACILITY TO ENSURE ACCORDANCE WITH THE PLANS. SPECIFIC INSPECTION REQUIREMENTS WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
- FINAL INSPECTION: A FINAL CHECK WILL BE MADE TO CHECK DESIGN DIMENSIONS. IF CONSTRUCTION IS SATISFACTORY, A FINAL INSPECTION REPORT WILL BE ISSUED AND A JOB CARD WILL BE INITIALED BY THE HOWARD COUNTY INSPECTOR. A CERTIFICATION LETTER TO BE SUBMITTED PRIOR TO ISSUANCE OF THE USE AND OCCUPANCY CERTIFICATE. HOWARD COUNTY DPW WILL REQUIRE A CERTIFIED AS-BUILT PLAN.

OPERATION AND MAINTENANCE SCHEDULE FOR UNDERGROUND FACILITIES

- THE UNDERGROUND STORM WATER MANAGEMENT FACILITY IS PRIVATELY OWNED AND IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO PERIODICALLY INSPECT AND CLEAN THE FACILITY TO MAINTAIN ITS OPERATION AND FUNCTION.
- THE UNDERGROUND STORM WATER MANAGEMENT FACILITY SHALL BE INSPECTED YEARLY AT A MINIMUM AND AFTER ESPECIALLY SEVERE STORM EVENTS.
- WHEN SEDIMENT ACCUMULATION OF MORE THAN 2" IS OBSERVED OR ANY DEBRIS THAT MIGHT OBSTRUCT THE OUT FALL IS OBSERVED, THE FACILITY SHALL BE CLEANED.
- THE FACILITY SHALL BE CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. THE OWNER SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES NOTIFYING THEM OF THE SPILL AND CLEANUP OPERATION.
- THE SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND STORM WATER MANAGEMENT FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL FOLLOW PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIAL AND LIQUID.
- THE INLET AND OUTLET PIPES SHALL BE CHECKED FOR ANY OBSTRUCTIONS AT LEAST ONCE EVERY SIX MONTHS. IF OBSTRUCTIONS ARE FOUND, THE OWNER SHALL HAVE THEM REMOVED AND PROPERLY DISPOSED OF.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John Vanaman 10/25/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE
John Vanaman 11/01/06
 CHIEF-DIVISION OF LAND DEVELOPMENT DATE
Mark A. Cuyler 10/25/06
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Robert D. Wiley 10/30/06
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT 10/30/06

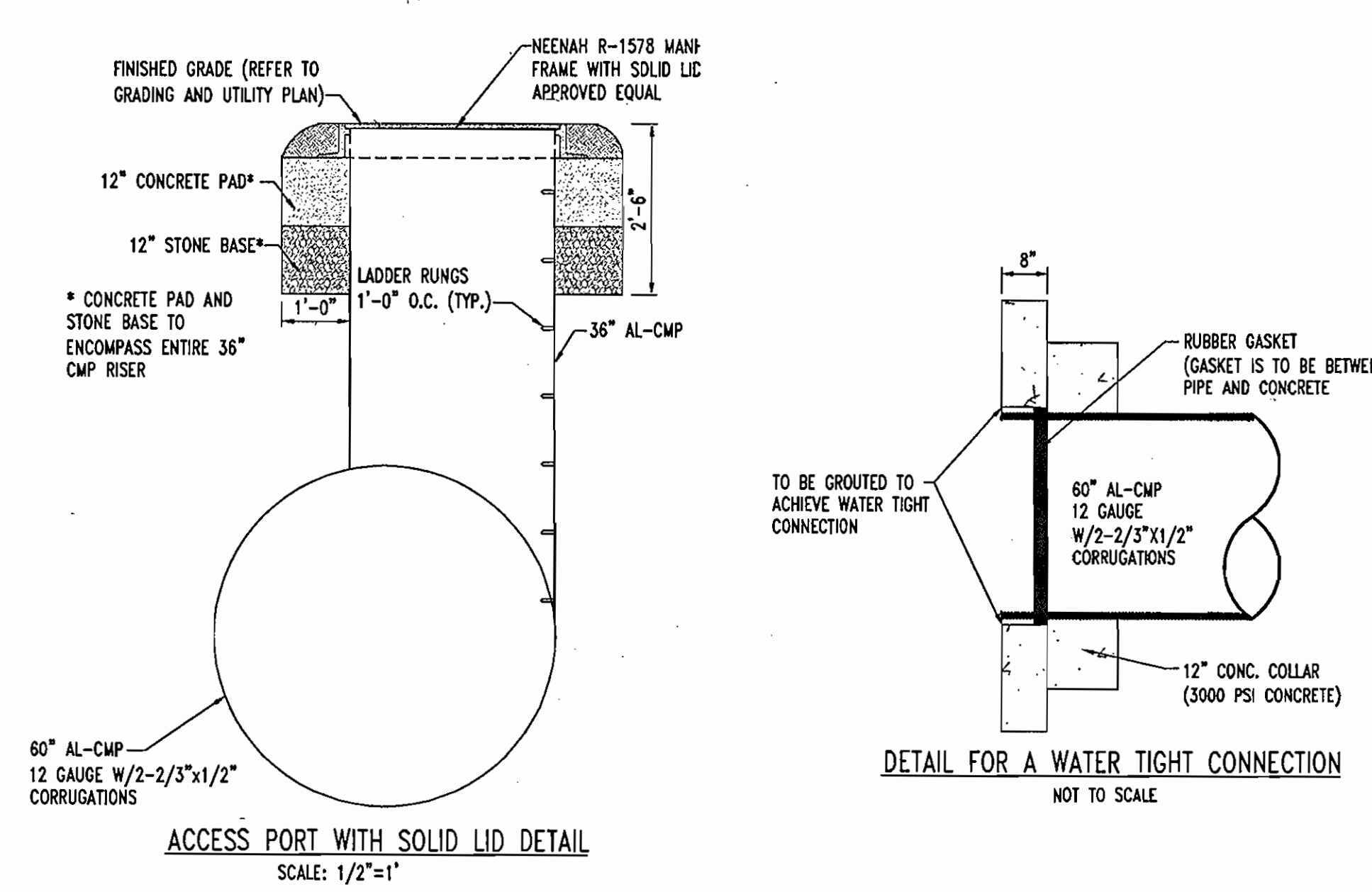
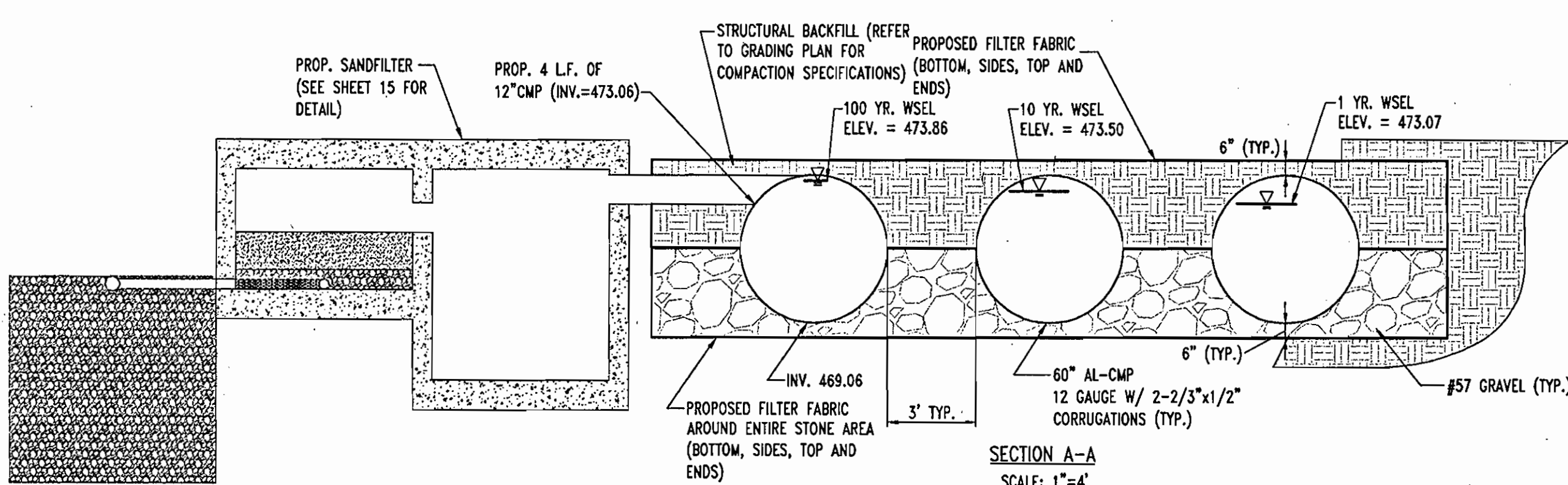
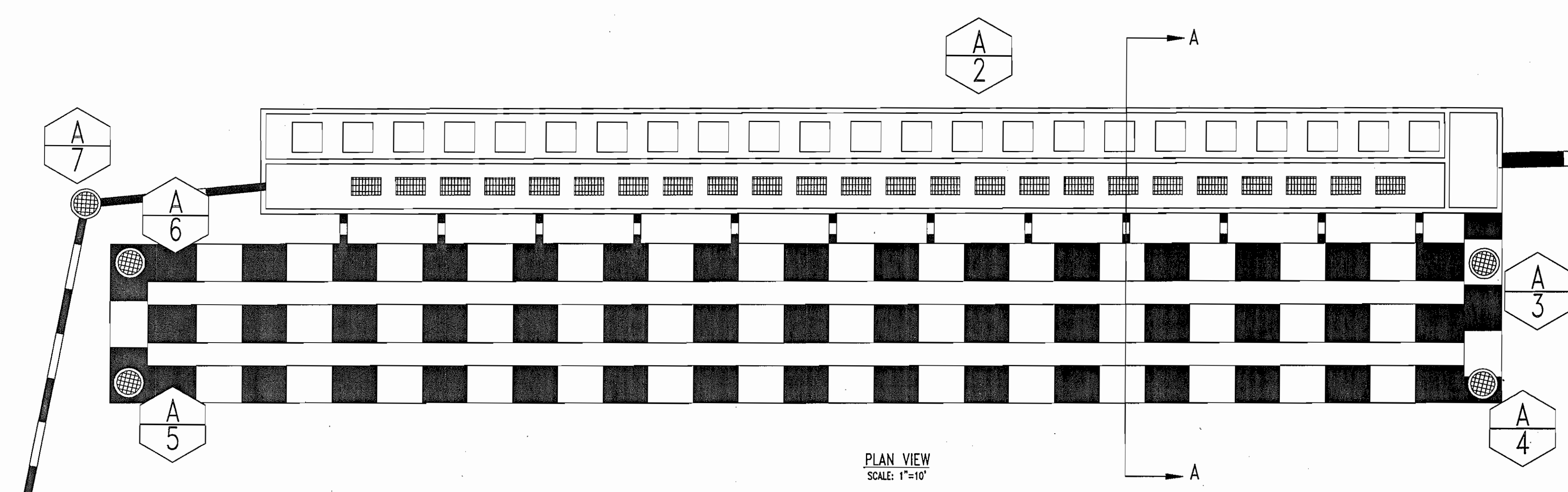
NO.	DATE	REVISION DESCRIPTION
OWNERS	DEVELOPER	
PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN	
PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		
PARCEL C-1 ANTWERPEN JACOB M 6381 HW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		

PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND
 AREA TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 16588-B-9
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: SWM NOTES AND DETAILS

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 8110 GREENGLASS COURT, SUITE 300, TOWSON, MD 21286
 (410) 851-9900 FAX (410) 851-9911 E-MAIL: info@bohlereng.com

DESIGNED BY: J.J.U.
 DRAWN BY: R.L.B.
 PROJECT NO.: MD032003.1
 DATE: 6/30/06
 SCALE: N.T.S.
 DRAWING NO. 14 OF 22



GENERAL NOTE:
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NOTE: ALL METAL SURFACES SHALL BE GALVANIZED AND PAINTED WITH TWO COATS OF BATTLESHIP GRAY PAINT.

NOTE: DEBRIS IS TO BE KEPT OUT OF THE FACILITY DURING AND AFTER COMPLETION



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

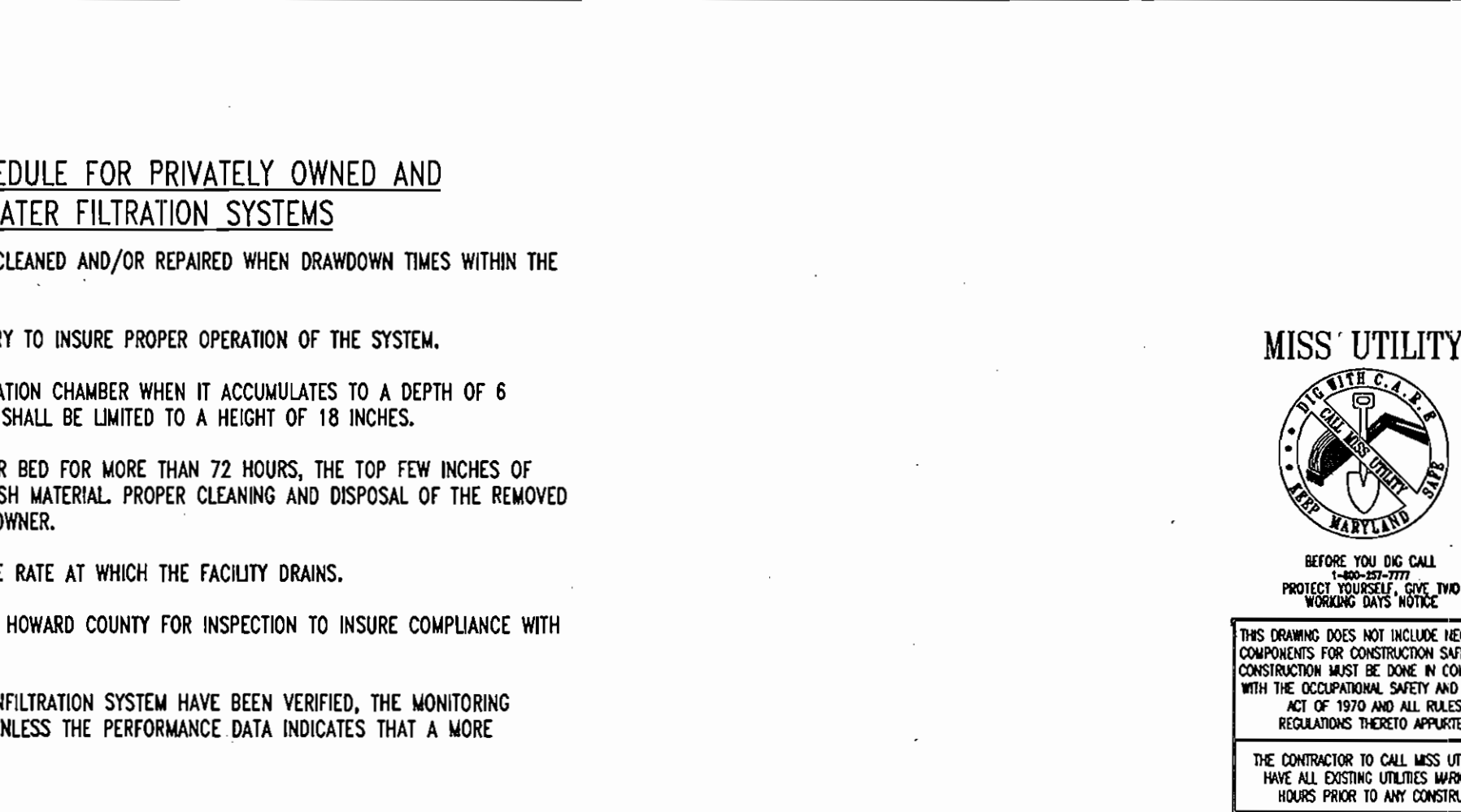
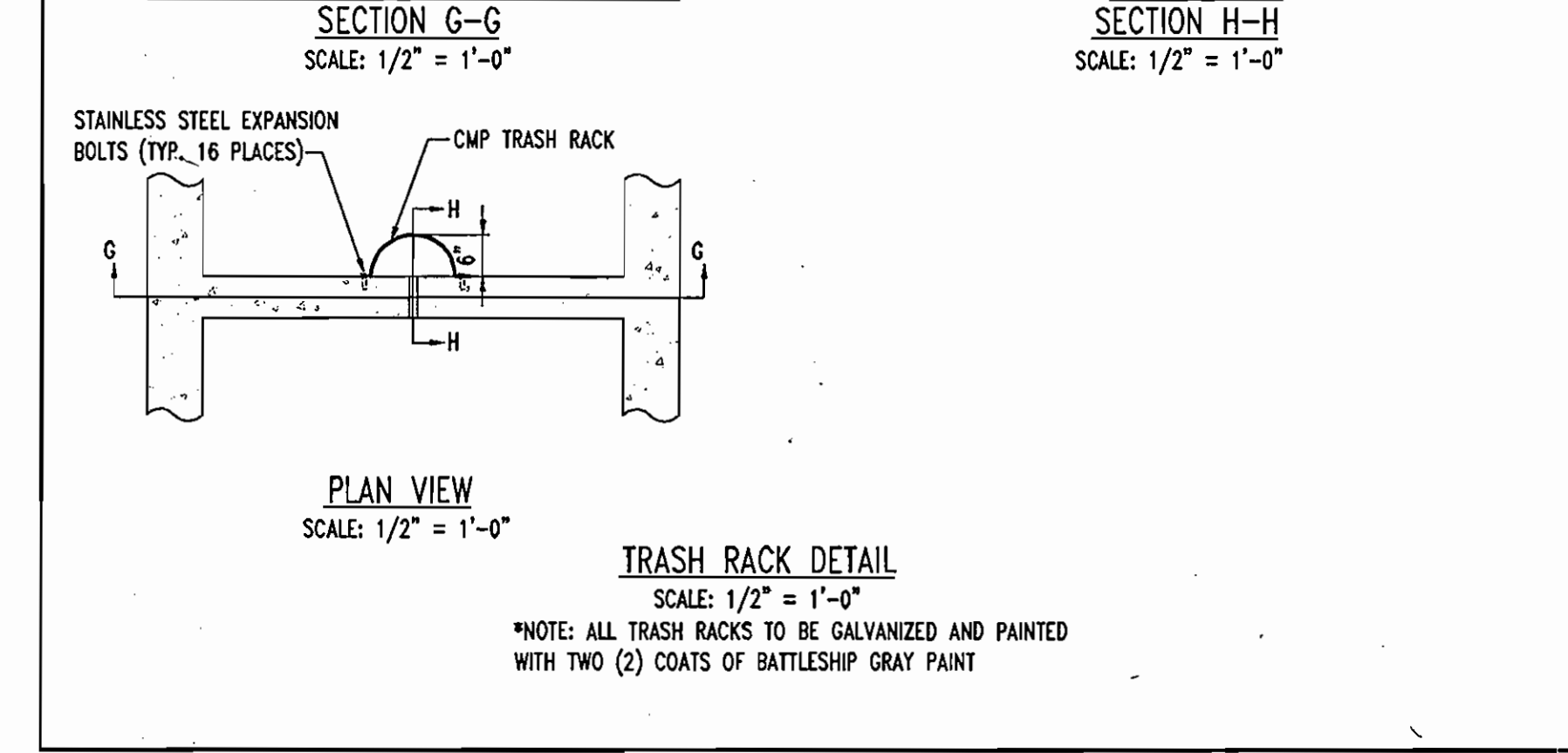
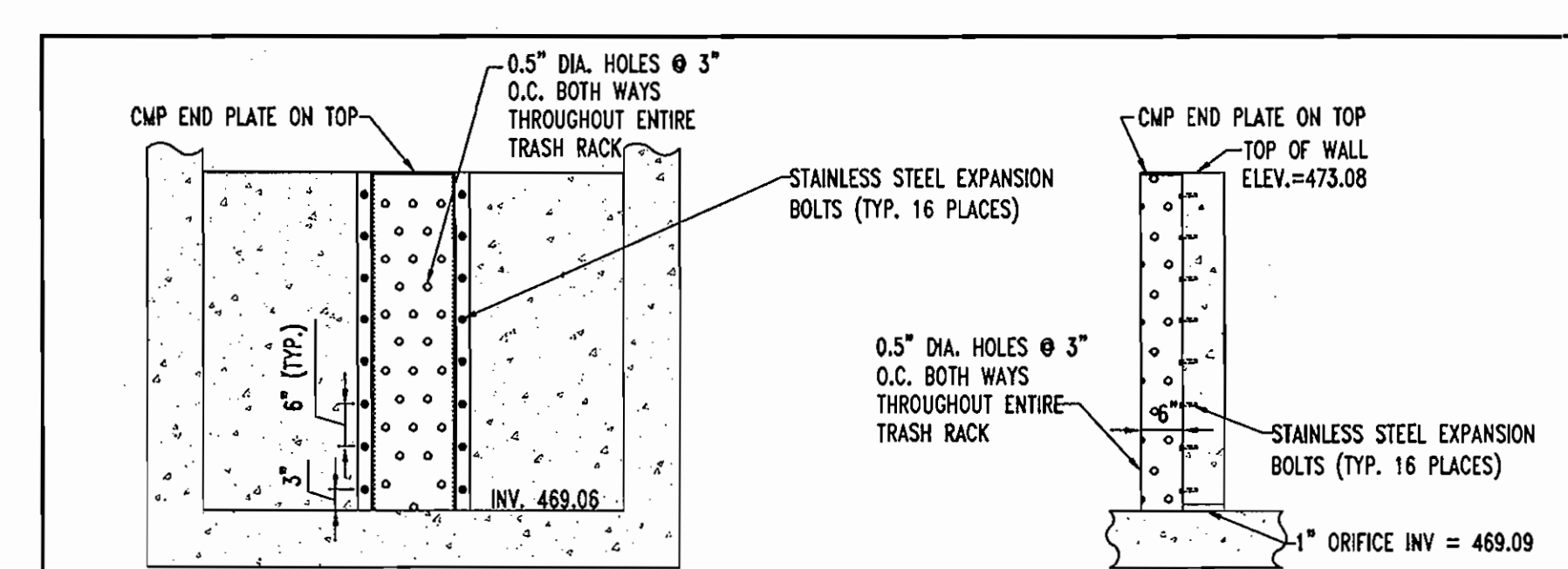
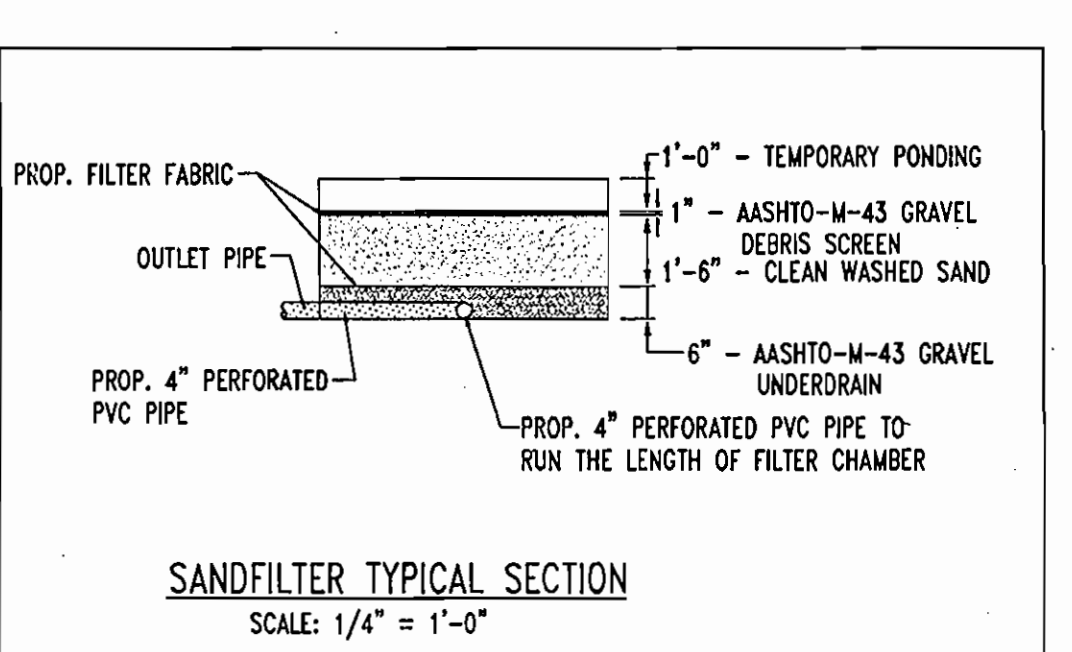
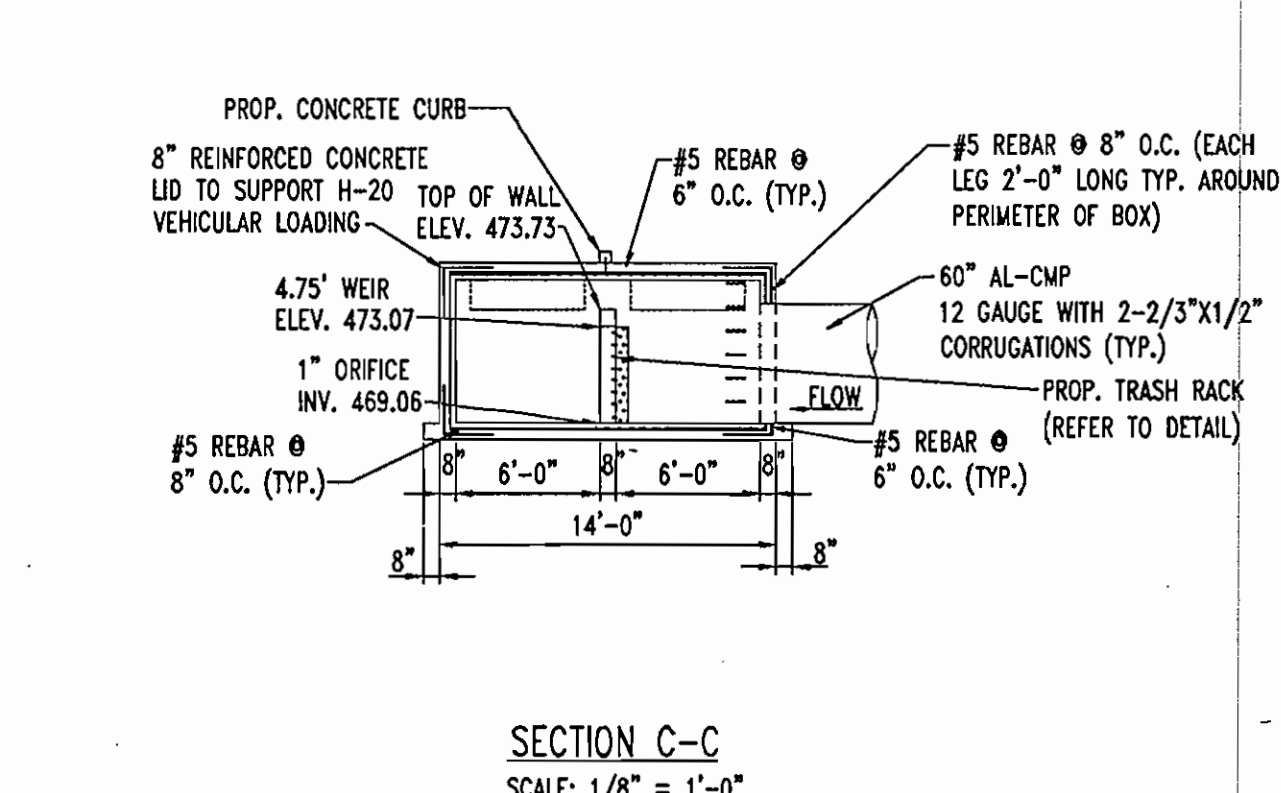
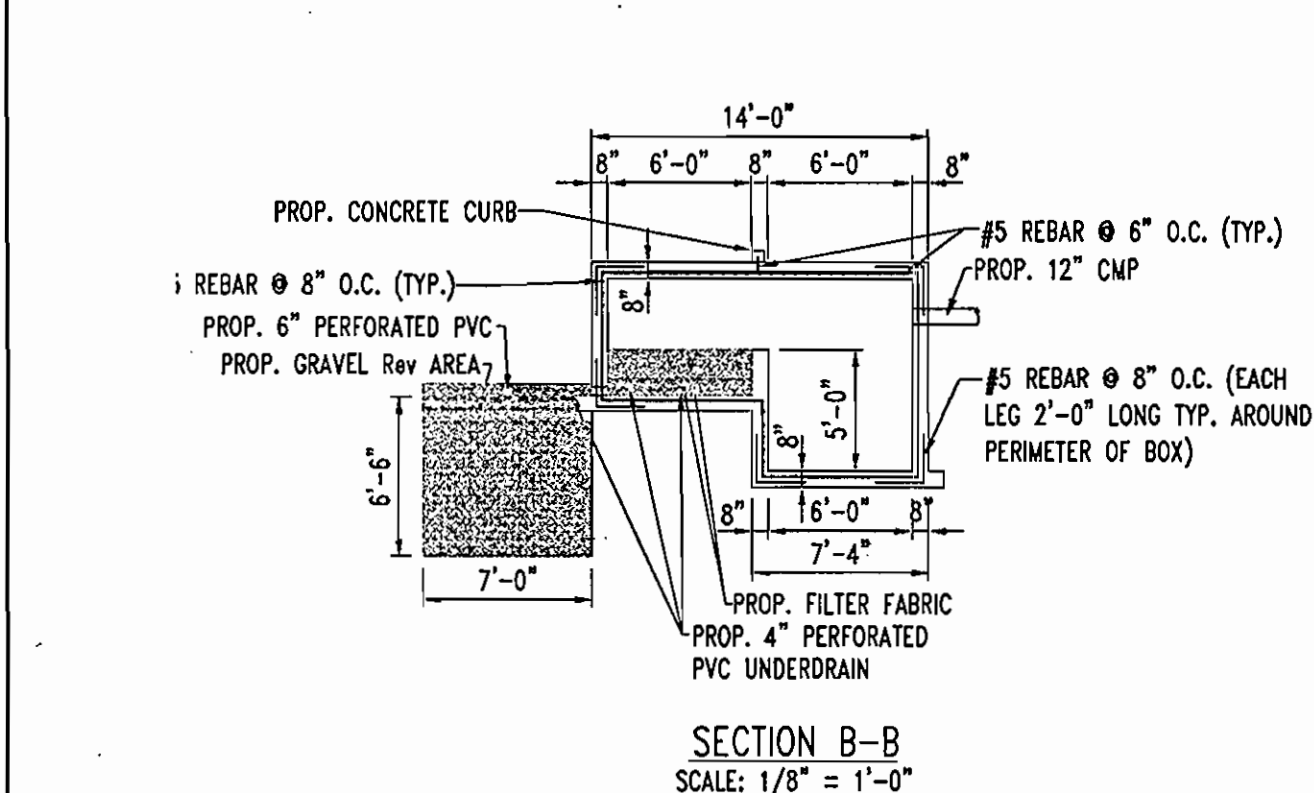
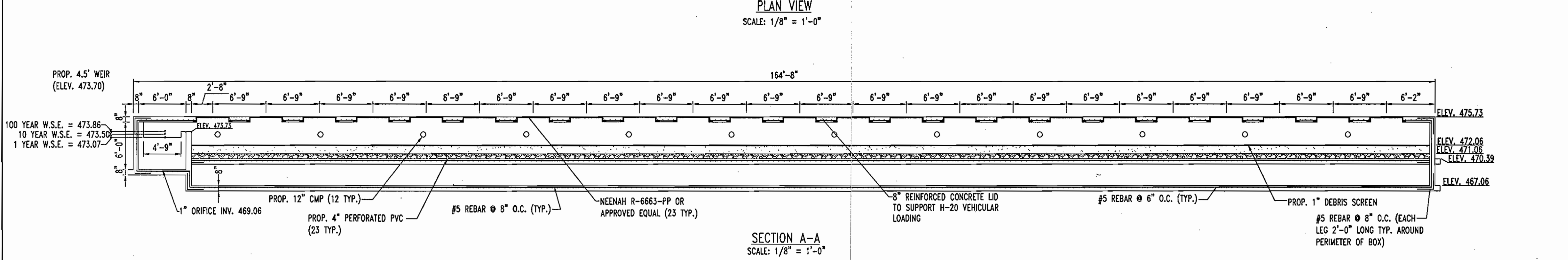
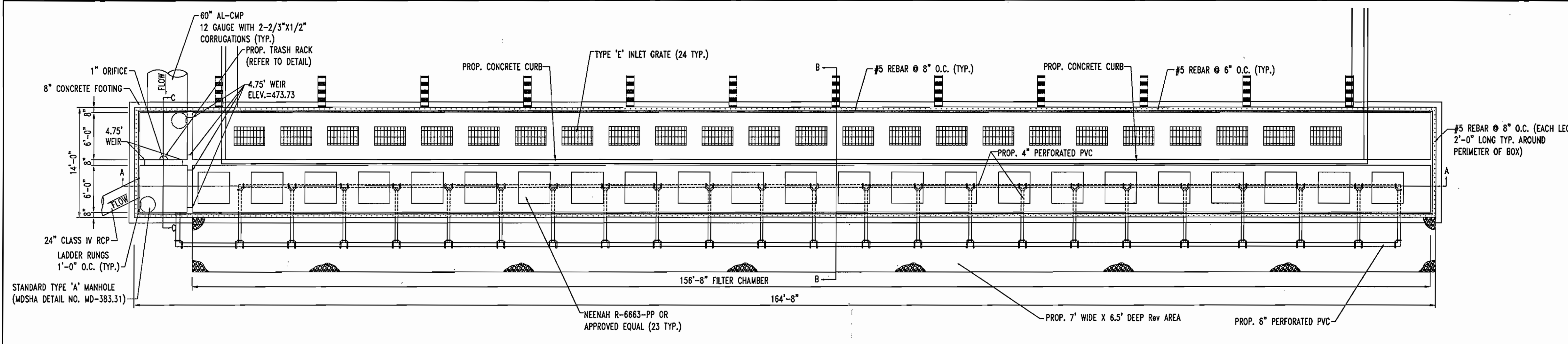


Table B.3.1 Material Specifications for Sand Filters

Material	Specification/Test Method	Size	Notes
sand	clean AASHTO-M-6 or ASTM-C-33 concrete sand	0.075" to 0.04"	Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.
underdrain gravel	AASHTO-M-43	3/8" to 0.75"	Must maintain 125 gsm per sq. ft. flow rate. Note: a 4" pea gravel layer may be substituted for geotextiles meant to "separate" sand filter layers.
geotextile fabric (if required)	ASTM-D-4833 (structure strength - 125 lb.) ASTM-D-4632 (Tensile Strength - 300 lb.)	0.08" thick equivalent opening size of #80 sieve	
underdrain piping	F 758, Type PS 28 or AASHTO-M-278	4" - 6" rigid schedule 40 PVC or SDR35	3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes
concrete (cast-in-place)	MSHA Standards and Specs. Section 902, Mix No. 3, $f'_c = 3500$ psi, normal weight, air-entrained; re-inforcing to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required; 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland

R-0002 To R-0003 Series
Heavy Duty Square and Rectangular Slot Type Manhole Frames and Bold Lids

Table with columns: Frame Size, Frame Weight, Lid Weight, Frame Material, Lid Material, etc.

GENERAL NOTES

- REMOVABLE GRATES SHALL BE DESIGNED FOR H-20 LOADING.
- CONTRACTOR SHALL SUBMIT 5 SETS OF COMPLETE SHOP DRAWINGS WITH BAR SCHEDULE AND DETAILS FOR EXPANSION JOINTS AND CONSTRUCTION JOINTS FOR CAST IN PLACE SANDFILTERS TO ENGINEER FOR REVIEW AND APPROVAL BEFORE ORDERING MATERIAL AND CONSTRUCTION.
- ALL PIPES BETWEEN THE WATER QUALITY FILTER AND THE 48" CMP MUST BE PLUGGED UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE PAVED OR SUPPORTING 2" OF GRASS.

CONCRETE NOTES

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
- ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1'-0".
- ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
- ALL FRAMEWORK 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.

GENERAL NOTE:
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B.3.A SAND FILTER SPECIFICATIONS

1. MATERIAL SPECIFICATIONS FOR SAND FILTERS

THE ALLOWABLE MATERIALS FOR SAND FILTER CONSTRUCTION ARE DETAILED IN TABLE B.3.1.

2. SAND FILTER TESTING SPECIFICATIONS

UNDERGROUND SAND FILTERS ARE TO BE TESTED FOR WATER TIGHTNESS PRIOR TO PLACEMENT OF FILTER MEDIA. ENTRANCES AND EXITS SHOULD BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER TO DEMONSTRATE WATER TIGHTNESS. WATER TIGHTNESS MEANS NO LEAKAGE FOR A PERIOD OF 8 HOURS.

ALL OVERFLOW WEIRS, MULTIPLE ORIFICES AND FLOW DISTRIBUTION SLOTS ARE TO BE FIELD-TESTED TO VERIFY ADEQUATE DISTRIBUTION OF FLOWS.

3. SAND FILTER CONSTRUCTION SPECIFICATIONS

PROVIDE SUFFICIENT MAINTENANCE ACCESS. VEGETATED ACCESS SLOPES ARE TO BE A MAXIMUM OF 10%; GRAVEL SLOPES TO 25%.

ABSOLUTELY NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PAVED OR ARE SUPPORTING A 2" STAND OF GRASS.

SURFACE OF FILTER BED IS TO BE LEVEL.

ALL UNDERGROUND SAND FILTERS SHOULD BE CLEARLY DELINEATED WITH SIGNS SO THAT THEY MAY BE LOCATED WHEN MAINTENANCE IS DUE.

3.4.6 FILTERING MAINTENANCE CRITERIA

THE SEDIMENT CHAMBER OUTLET DEVICES SHALL BE CLEANED/REPAIRED WHEN DRAWDOWN TIMES WITHIN THE CHAMBER EXCEED 36 HOURS. TRASH AND DEBRIS SHALL BE REMOVED AS NECESSARY.

SEDIMENT SHOULD BE CLEANED OUT OF THE SEDIMENT CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN THREE INCHES.

WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHES SUBSTANTIALLY (E.G., WHEN WATER POUNDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 72 HOURS), THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENT SHOULD BE DISPOSED IN AN ACCEPTABLE MANNER (E.G., LANDFILL). SLT/SEDIMENT SHOULD BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ONE INCH.

DIRECT MAINTENANCE ACCESS SHALL BE PROVIDED TO THE PRETREATMENT AREA AND THE FILTER BED.

SAND FILTER SHALL BE INSPECTED FOR ANY REQUIRED MAINTENANCE ON A QUARTERLY BASIS.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED UNDERGROUND STORMWATER FILTRATION SYSTEMS

- THE SEDIMENT CHAMBER OUTLET DEVICES SHALL BE CLEANED AND/OR REPAIRED WHEN DRAWDOWN TIMES WITHIN THE CHAMBER EXCEED 36 HOURS.
- DEBRIS AND LITTER SHALL BE REMOVED AS NECESSARY TO INSURE PROPER OPERATION OF THE SYSTEM.
- SEDIMENT SHALL BE CLEANED OUT OF THE SEDIMENTATION CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF 6 INCHES. VEGETATION WITHIN THE SEDIMENT CHAMBER SHALL BE LIMITED TO A HEIGHT OF 18 INCHES.
- WHEN WATER POUNDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 72 HOURS, THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REPLACED WITH FRESH MATERIAL. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED BY THE OWNER.
- A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION SYSTEM HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John Vanman 10/25/06
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

Paula Schantz 11/16/06
CHIEF-DIVISION OF LAND DEVELOPMENT DATE

Paula Schantz 11/16/06
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Robert G. White 10/30/06
HOWARD COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS	DEVELOPER	
PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228	
PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	ANTWERPEN, JACOB M. 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029	
PARCEL C-1		

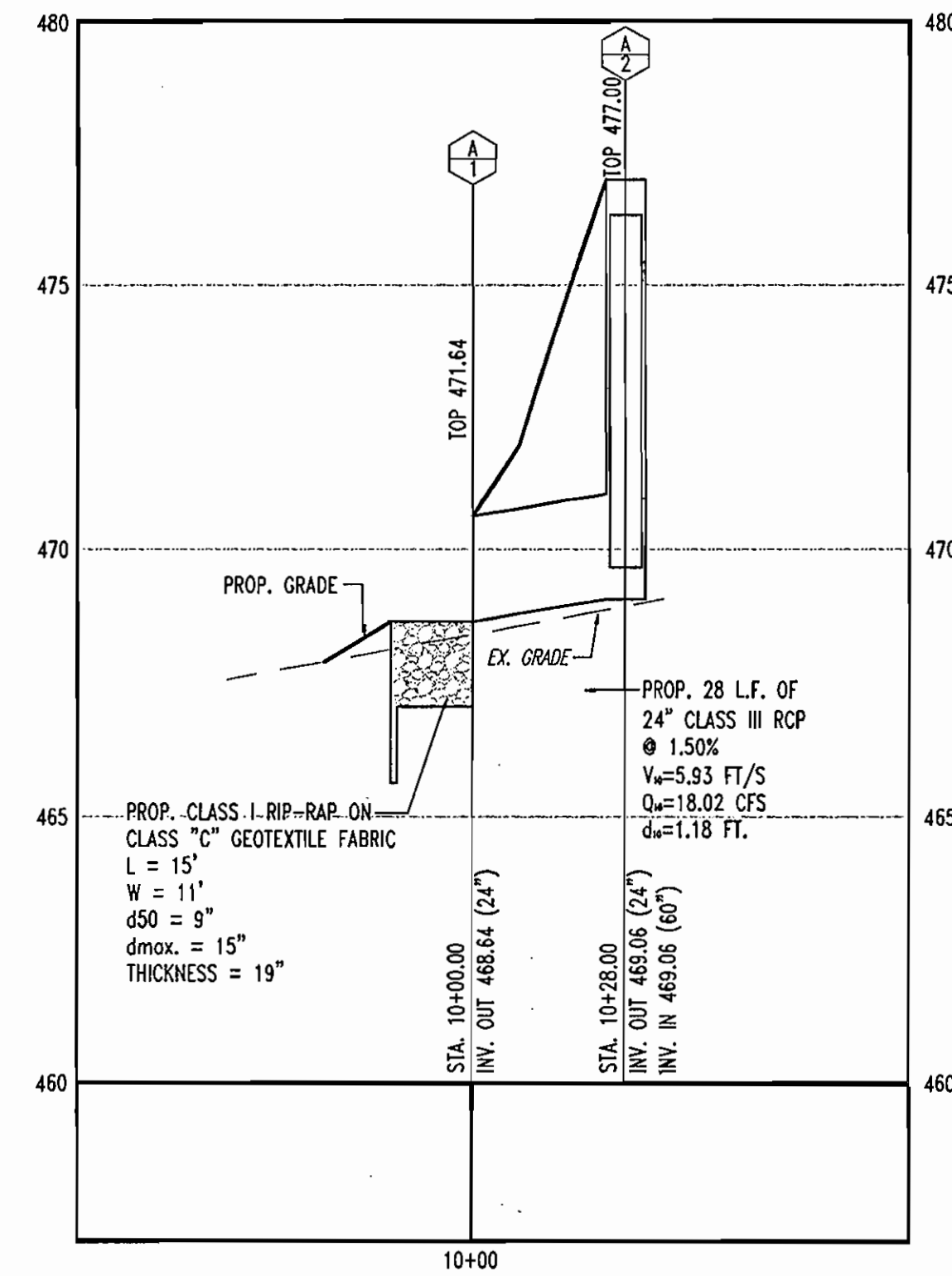
PROJECT: ANTWERPEN AUTOMOTIVE
12400 CLARKSVILLE PIKE,
CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34 69D 12 ZONED B-2
PARCELS A, B-1 and C-1
Plot No(s) 18588-B9
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

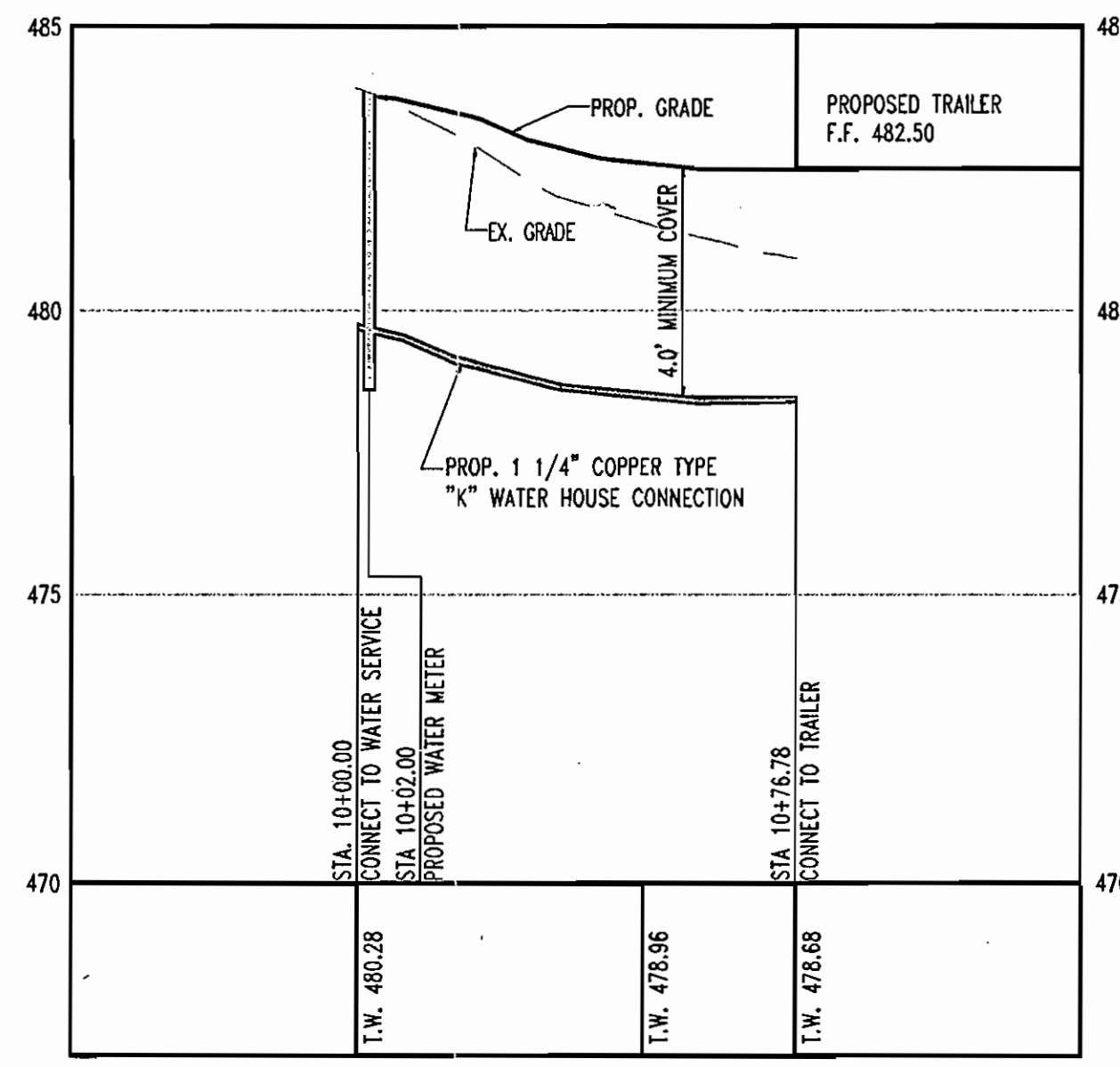
TITLE: SWM NOTES AND DETAILS

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
4110 CLARKSVILLE COURT, SUITE 300, TOWNSHIP, MD 21284
(410) 861-7000 FAX (410) 861-7067

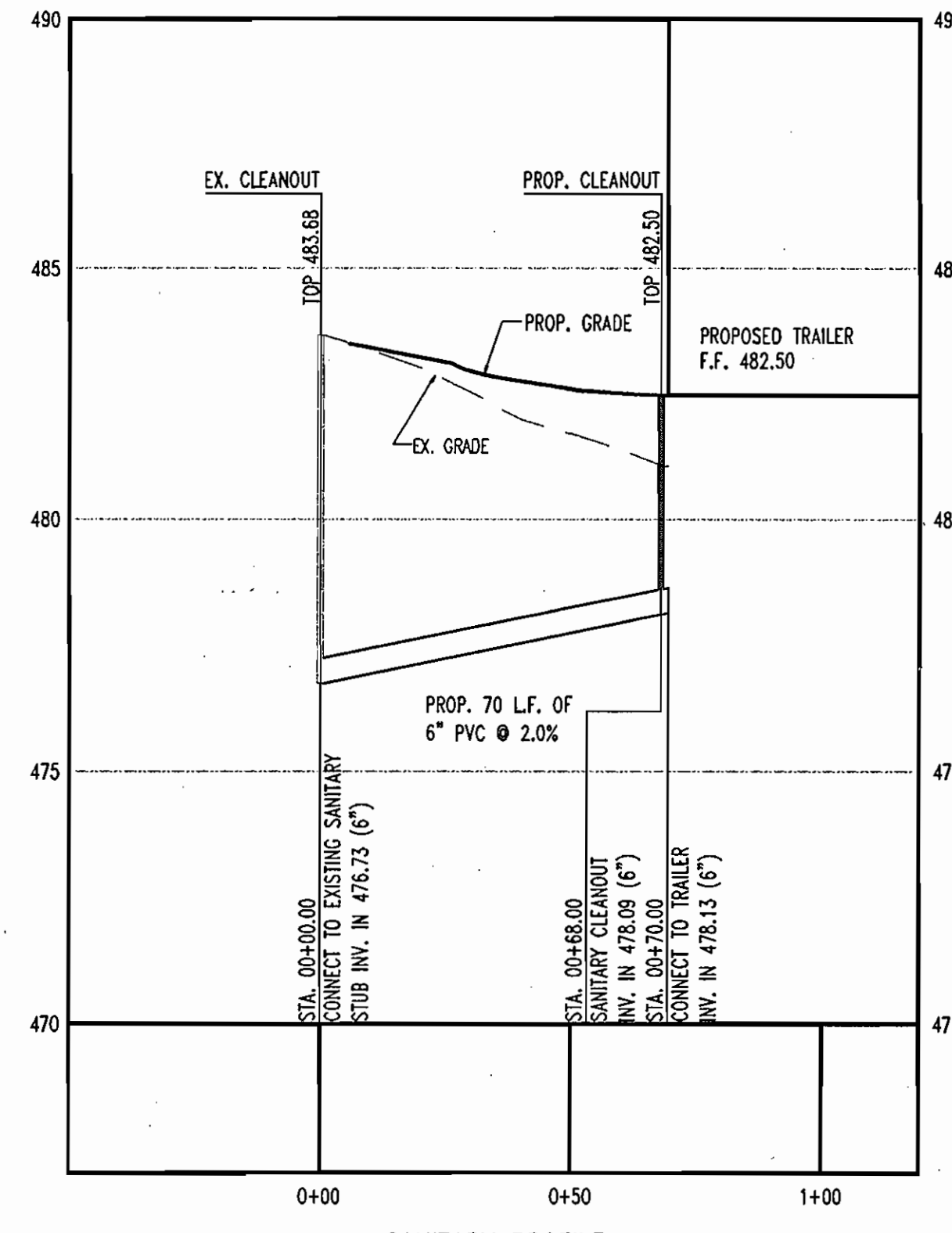
DESIGNED BY: J.J.U.
DRAWN BY: R.L.B.
PROJECT NO.: W032003.1
DATE: 6/30/06
SCALE: N.T.S.
DRAWING NO. 15 OF 22



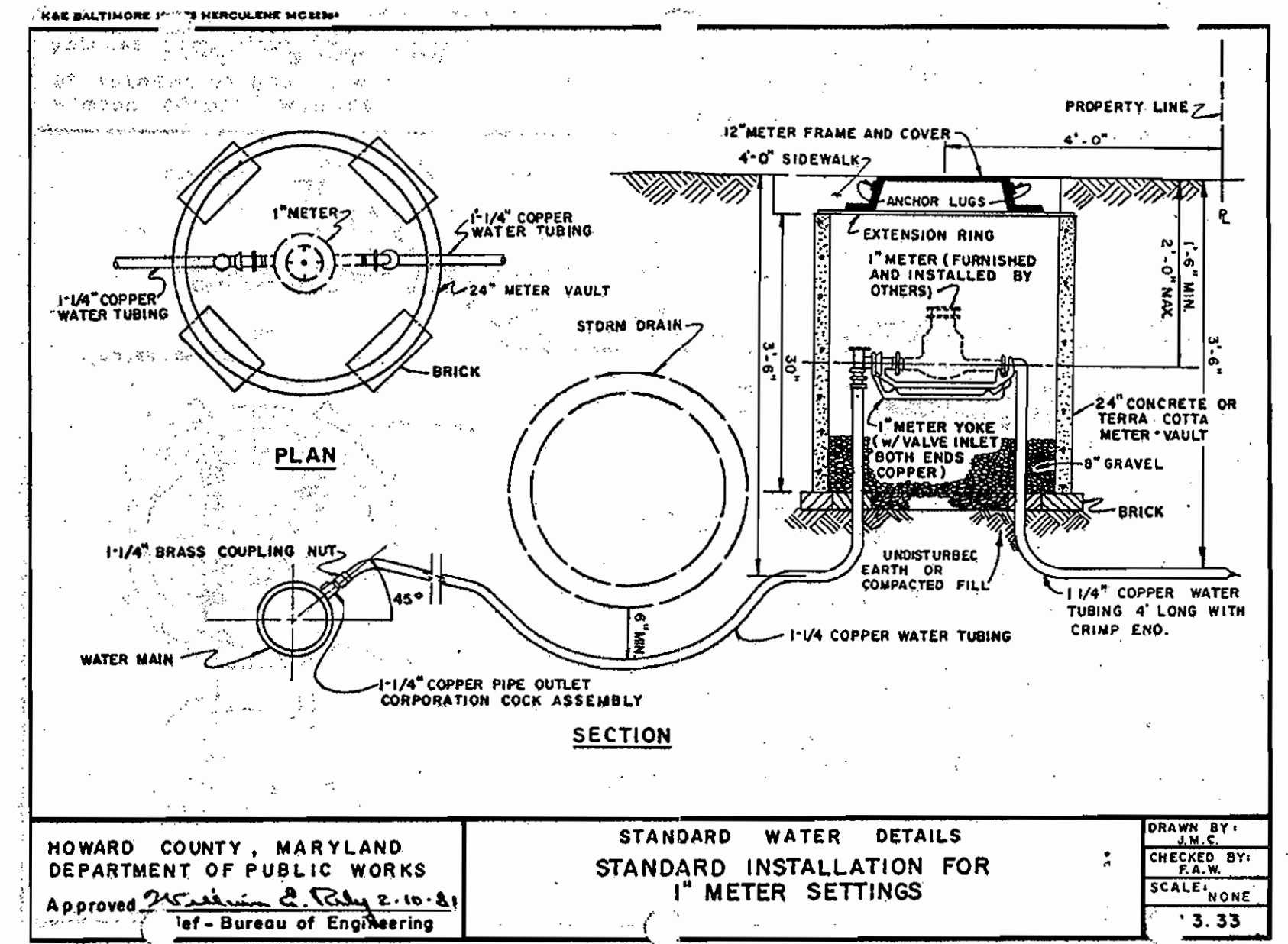
STORMDRAIN PROFILE A1 TO A2
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



WATERLINE PROFILE
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



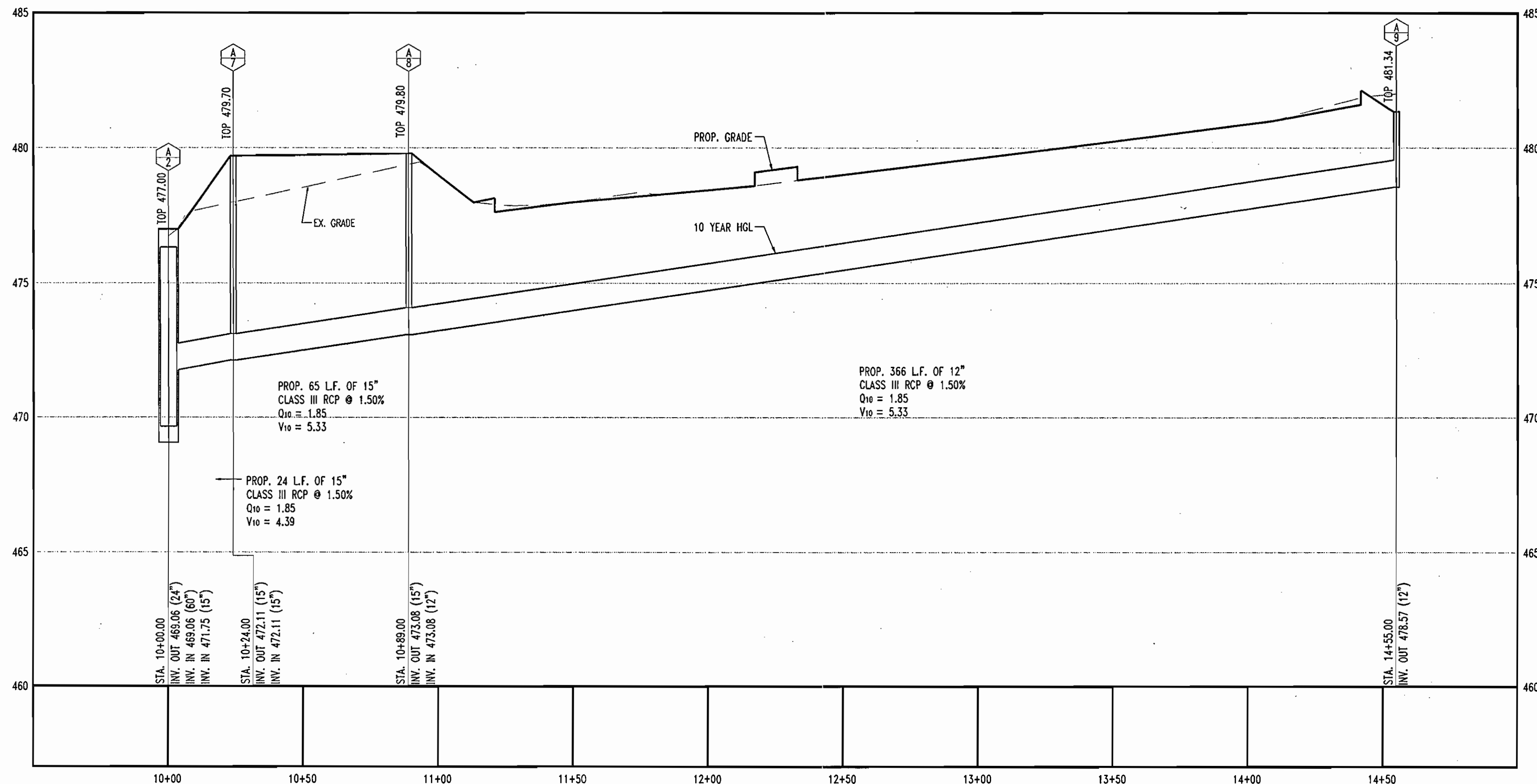
SANITARY PROFILE
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: [Signature] 10/17/06
1st - Bureau of Engineering

STANDARD WATER DETAILS
STANDARD INSTALLATION FOR
1" METER SETTINGS

DRAWN BY: J.J.U.
CHECKED BY: R.L.B.
SCALE: NONE
DATE: 3.33



STORMDRAIN PROFILE A2 TO A9
SCALE: HORIZ. 1"=30'
VERT. 1"=3'

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 BOHLER ENGINEERING, P.C. OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/25/06
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 11/2/06
CHIEF-DIVISION OF LAND DEVELOPMENT DATE

[Signature] 10/20/06
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/20/06
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
1	5/2/06	REVISED PER HOWARD COUNTY COMMENTS

OWNERS	<p>PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029</p> <p>PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029</p> <p>PARCEL C-1 ANTWERPEN, JACOB W 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029</p>	<p>DEVELOPER</p> <p>JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN</p> <p>[Signature]</p>
PROJECT	ANTWERPEN AUTOMOTIVE 12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND	
AREA	TAX MAP 34 GRID 12 ZONED B-2	PARCELS A, B-1 and C-1 Plat No. 10088-09 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
TITLE	UTILITY PROFILES	



BEFORE YOU DIG CALL 800-477-7777 OR 410-326-7272 AND MARKING THIS NOTICE.

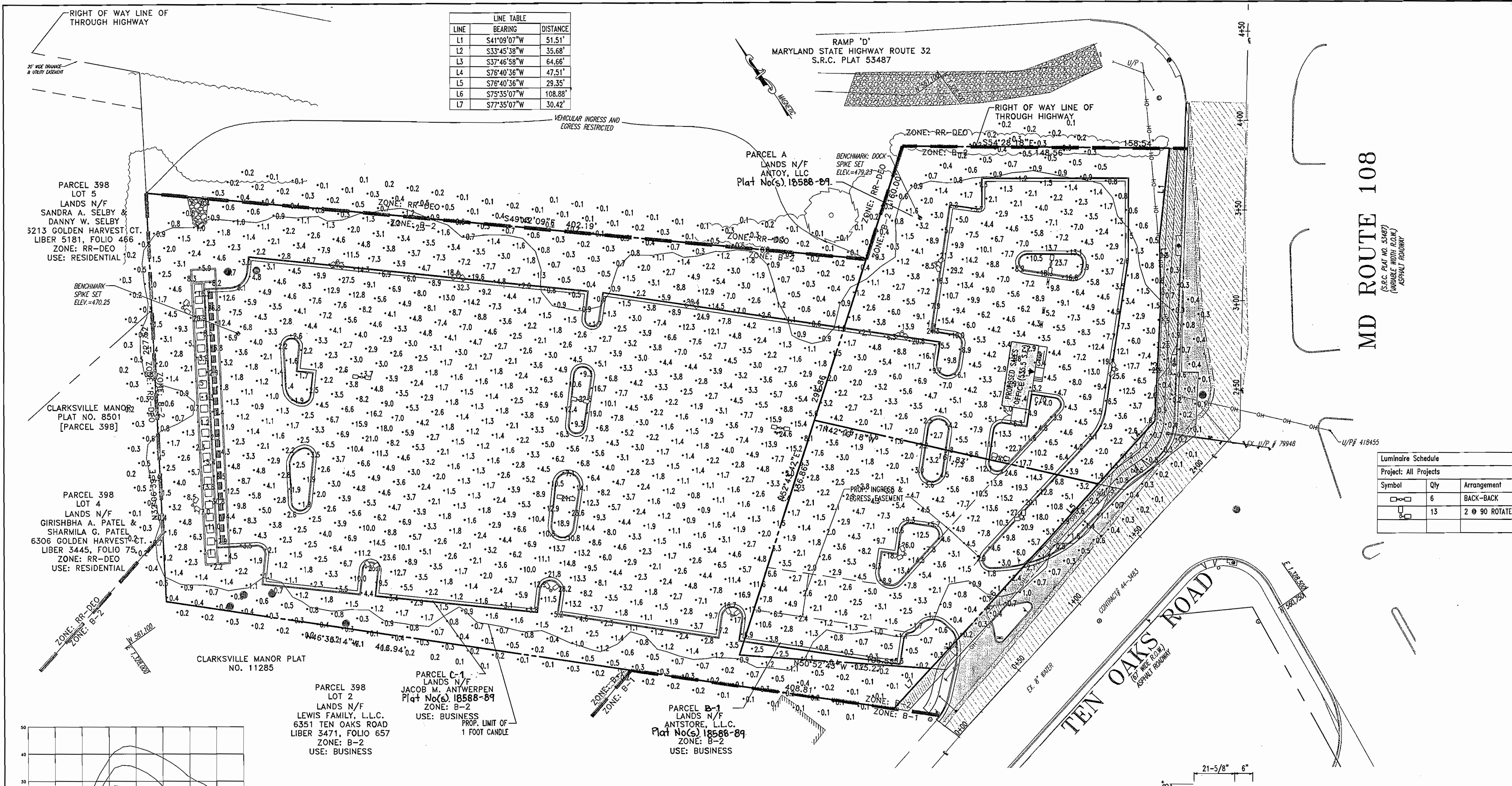
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPLICABLE.

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

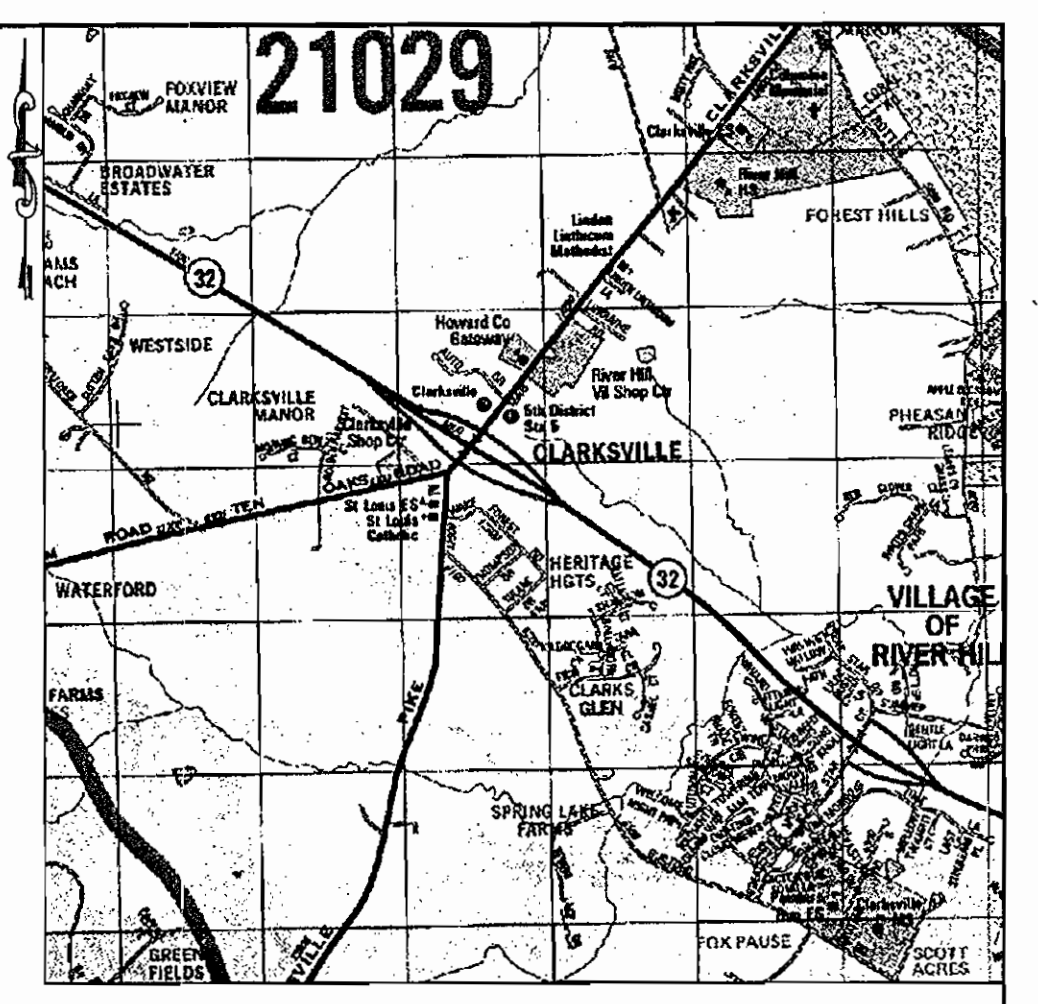
BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
4110 GLENMOUNT COURT, SUITE 300, TOWSON, MD 21286
410-253-7900 FAX 410-253-7907

10/17/06

DESIGNED BY: J.J.U.
DRAWN BY: R.L.B.
PROJECT NO.: M032003.1
DATE: 4/9/06
SCALE: N.T.S.
DRAWING NO. 16 OF 22



LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
L4	S78°40'36"W	47.51'
L5	S28°40'36"W	29.35'
L6	S73°35'07"W	108.88'
L7	S77°35'07"W	30.42'



LOCATION MAP
 COPYRIGHT ADC THE MAP PEOPLE
 PERMIT USE NO. 20894276
 SCALE: 1"=2000'

MD ROUTE 108
 (S.R.C. PLAT NO. 53487)
 (MARBLE HOLLOW ECOM)
 ASPHALT PAVEMENT

Symbol	Qty	Arrangement	Lumens	LLF	Description	Manufacture
□	6	BACK-BACK	115000	0.750	D180° GBM-FP-400-SMV-CT-HSS	LSI LIGHTING
□	13	2 @ 90 ROTATED	115000	0.750	D90° GBM-FP-400-SMV-CT-HSS	LSI LIGHTING

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/25/06 DATE
 CHIEF-DEVELOPMENT ENGINEERING DIVISION
[Signature] 11/20/06 DATE
 CHIEF-DIVISION OF LAND DEVELOPMENT
[Signature] 11/20/06 DATE
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/25/06 DATE
 HOWARD COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO. DATE REVISION DESCRIPTION

OWNERS: PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029
 PARCEL B-1 ANTISTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029
 PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN
[Signature]

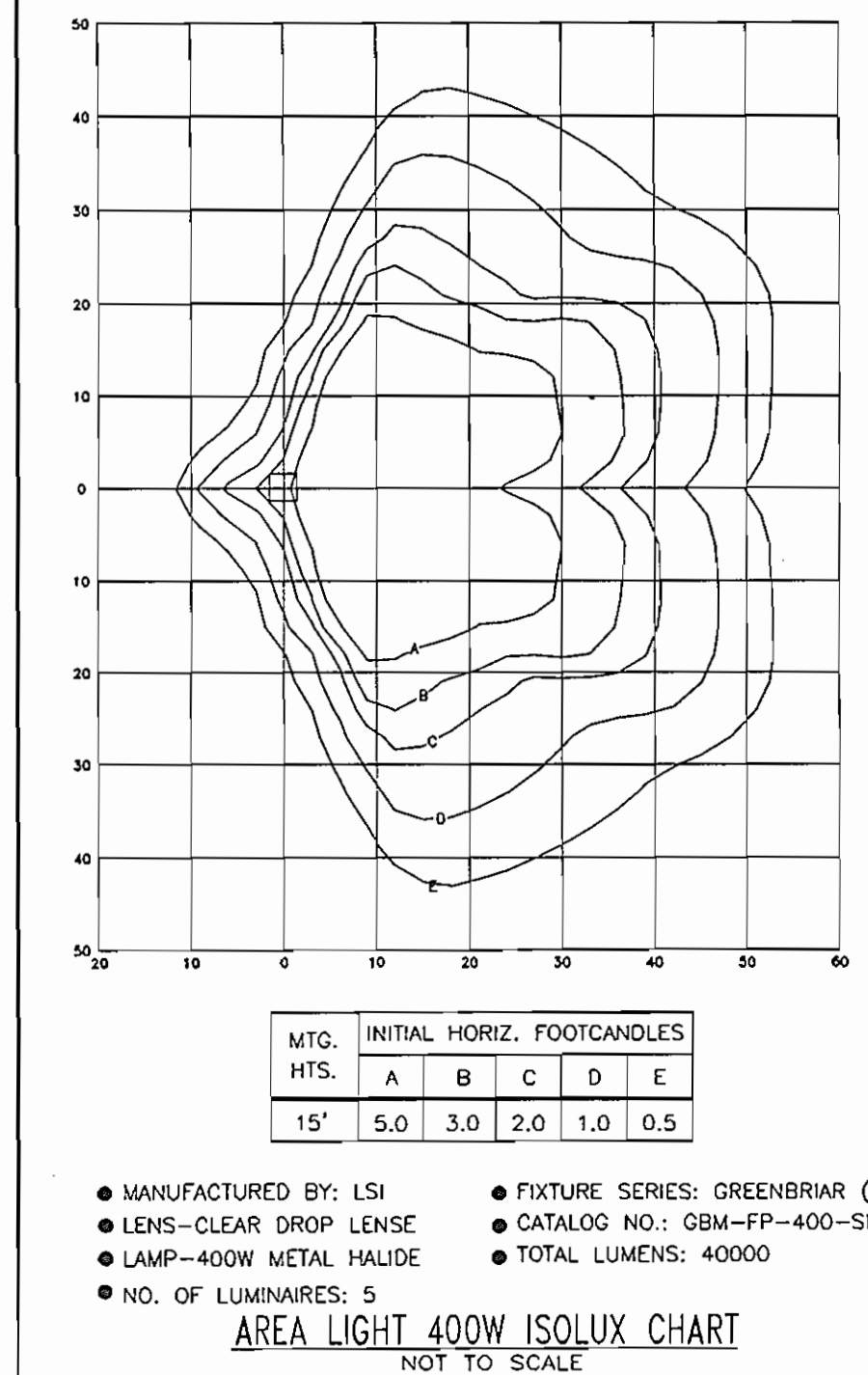
PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34, B-1, 12, ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: LIGHTING PLAN

Bohler Engineering, P.C.
 Professional Engineering Services
 810 GREENGLASS COURT, SUITE 300, TOWSON, MD 21286
 (410) 81-7008 FAX (410) 81-7001 E: info@bohlereng.com

DESIGNED BY: W.J.G.
 DRAWN BY: J.L.L.
 PROJECT NO.: M0052003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 17 OF 22



GREENBRIAR® - FLAT LENS (Patent rights are granted by U.S. Patent No. 6,464,378)

HOUSING - The aluminum housing is available in two sizes for Greenbriar Flat Lens Reduced Envelope 1000 Watt Lamp and Greenbriar Flat Lens Reduced Envelope 400 Watt Lamp. Each housing and the same dimensions square, however, the QR is deeper. Both are finished to produce a clean, sharp appearance, and designed to ensure weather-tight construction. Top covers provide ease of installation and servicing.

LENS/GASKET - The clear tempered glass lens is sealed to the housing with an LSI proprietary gasketing system to ensure airtight and weather-tight construction. The lens is sealed to the housing with an LSI proprietary gasketing system to ensure airtight and weather-tight construction. The lens is sealed to the housing with an LSI proprietary gasketing system to ensure airtight and weather-tight construction.

TOP COVER FASTENERS - The four captive stainless steel fasteners secure the top cover to the housing.

SOCKETS - Provision for two sockets. All sockets are push-in.

LIGHT SOURCES - Full-Cut Metal Halide, Super Metal Halide Reduced Envelope, Metal Halide, Metal Halide Reduced Envelope, or High Pressure Sodium. Clear lens is supplied as standard.

BALLASTS - Full-Cut Metal Halide features feature a Super CWH type ballast. Super Metal Halide, Metal Halide, and High Pressure Sodium features feature a high power factor CWH ballast. Additional types are designed for CFI operation.

REFLECTOR/DISTRIBUTION PATTERNS - The series is available in a variety of reflector systems and distribution patterns, all with vertical oriented lamps.

GRM Type I (I), Type II (II), Premium Forward Throw (FT), Type Y (Y) and Standard Forward Throw (FS).

GRM Type I (I), Type II (II), Premium Forward Throw (FT), and Type Y (Y). Field-installable reflectors provide flexibility in distribution patterns without moving the fixture. Photometric data is listed in accordance with IESNA guidelines.

BRACKETS - Arm Mount: 2-1/2" x 3-3/8" x 1-1/2" extruded aluminum bracket is shipped standard. An "F" bracket is available for single or dual lamp configurations. The bracket is constructed from 6061-T6 aluminum. A Round Pole Risk (RPR) is required for mounting to 3"-4" round pipe. (See separate drawing for details.) Pole Top: The cast aluminum mounting hub contains the wiring compartment and mounts directly to LSI's unique "lock-in mounting plate", via a high strength grade flat steel with top flange and lock-down washer for double locking. Support arms consist of four 1/2" x 1/2" x 1/2" aluminum rods and are provided for ease of installation.

FINISHES - Each fixture is finished with LSI's Duragrip® polyester powder coat finishing process. The Duragrip finish provides superior weather change resistance and is guaranteed for five (5) years. Standard colors include bronze, black, platinum plus, buff, white, green, and granite.

RECALL INFORMATION - LSI offers optional color-coordinated decals in standard colors to locate the fixture. Decal is guaranteed for five years against peeling, cracking, or fading.

PHOTOMETRICS - Please visit our web site at www.lsi-lighting.com for detailed photometric data.

GREENBRIAR® - FLAT LENS

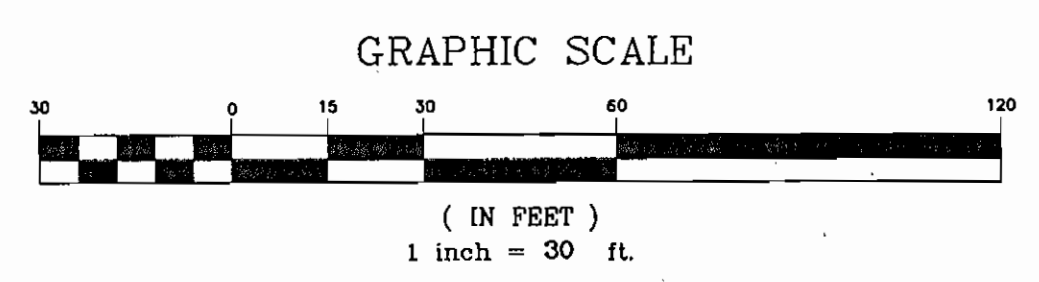
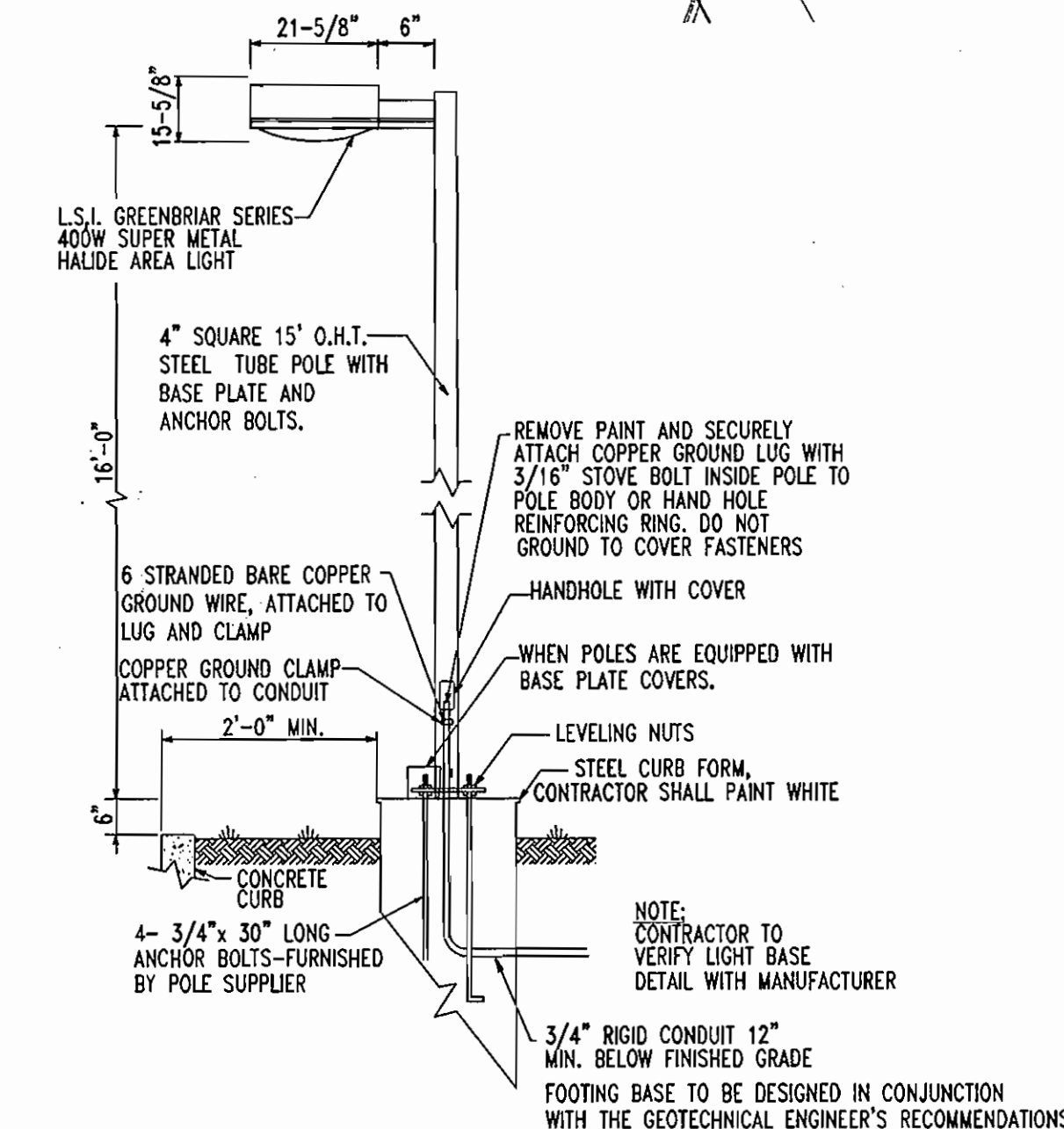
LUMINAIRE ORDERING INFORMATION

Model	Wattage	GRM	Finish	Mounting	Accessories
Reduced Envelope 1000W	1000	GRM Type I (I)	Standard	Arm Mount	None
Reduced Envelope 400W	400	GRM Type I (I)	Standard	Arm Mount	None
Standard Envelope 1000W	1000	GRM Type I (I)	Standard	Arm Mount	None
Standard Envelope 400W	400	GRM Type I (I)	Standard	Arm Mount	None

EXAMPLE OF A TYPICAL ORDER: GFR 5 1000 MHR F MT PLP 8BK

ACCESSORY ORDERING INFORMATION

Accessories	Part Number	Description	Quantity
Arm Mount	AM-1000	2-1/2" x 3-3/8" x 1-1/2" extruded aluminum bracket	1
Round Pole Risk (RPR)	RPR-3-4	Round Pole Risk (RPR) for mounting to 3"-4" round pipe	1
Pole Top	PT-1000	Cast aluminum mounting hub	1
Support Arms	SA-1000	Four 1/2" x 1/2" x 1/2" aluminum rods	4
Lock-down Washer	LW-1000	Lock-down washer for double locking	2
Decal	DECAL	Color-coordinated decal	1

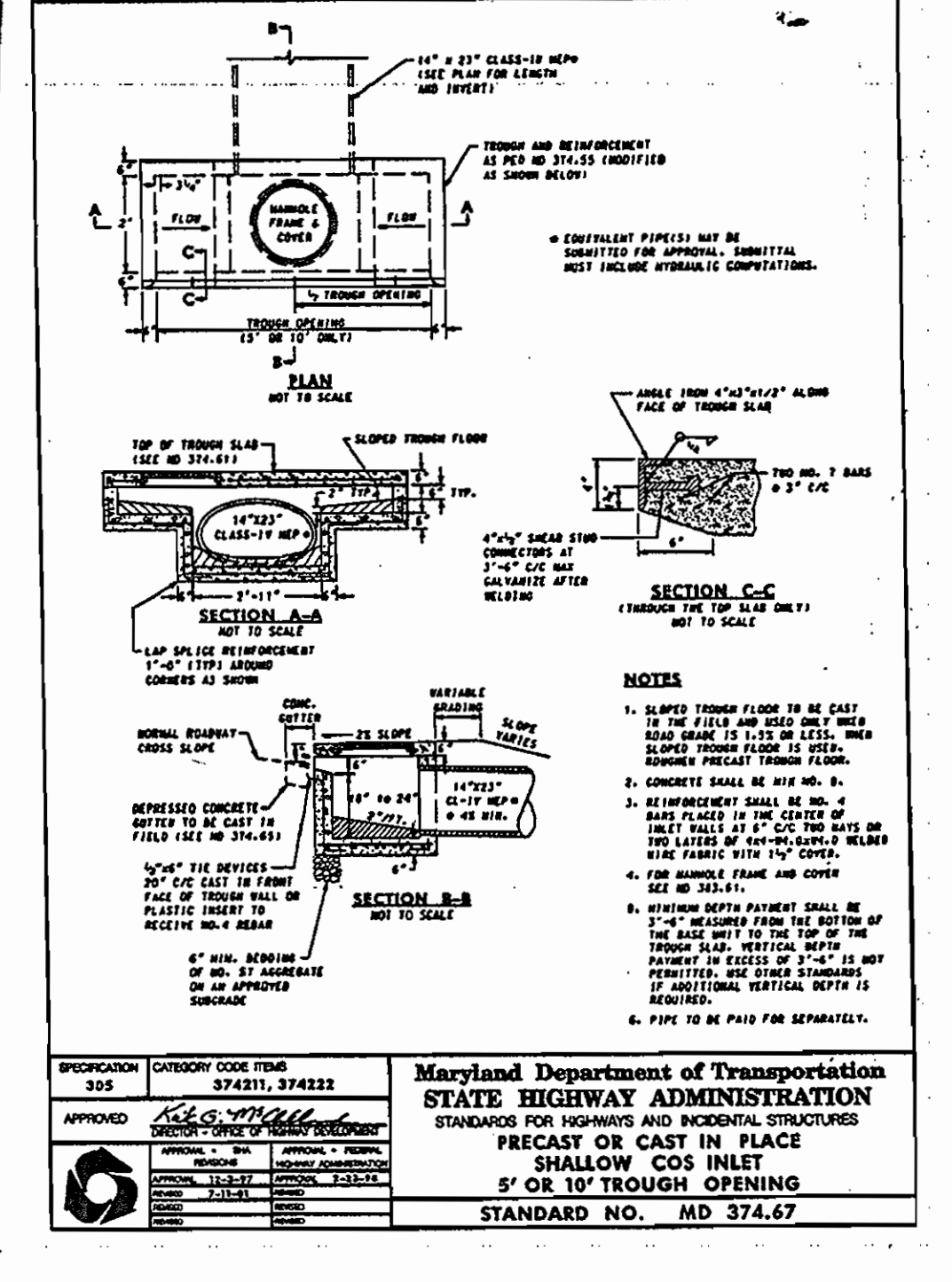
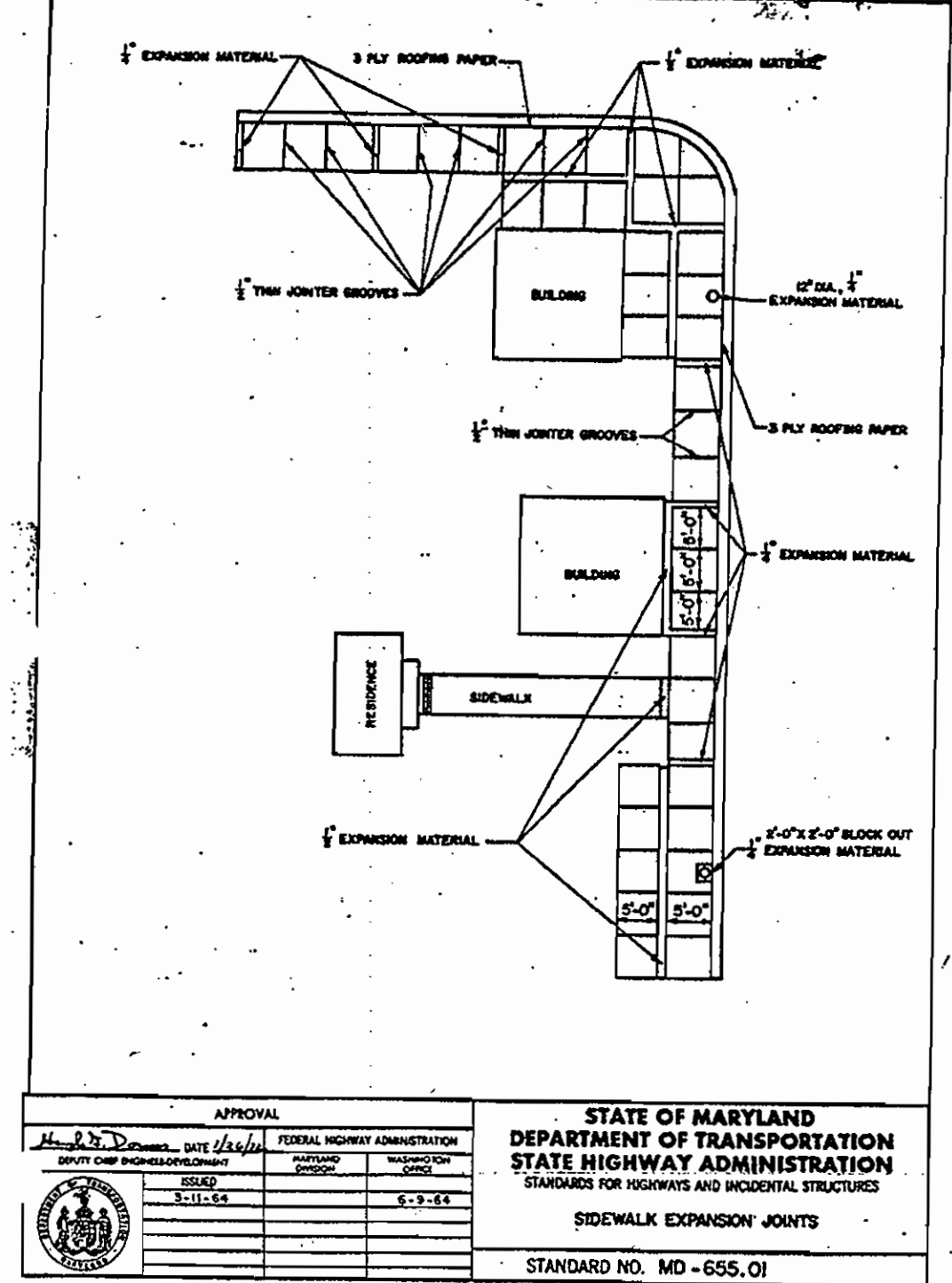
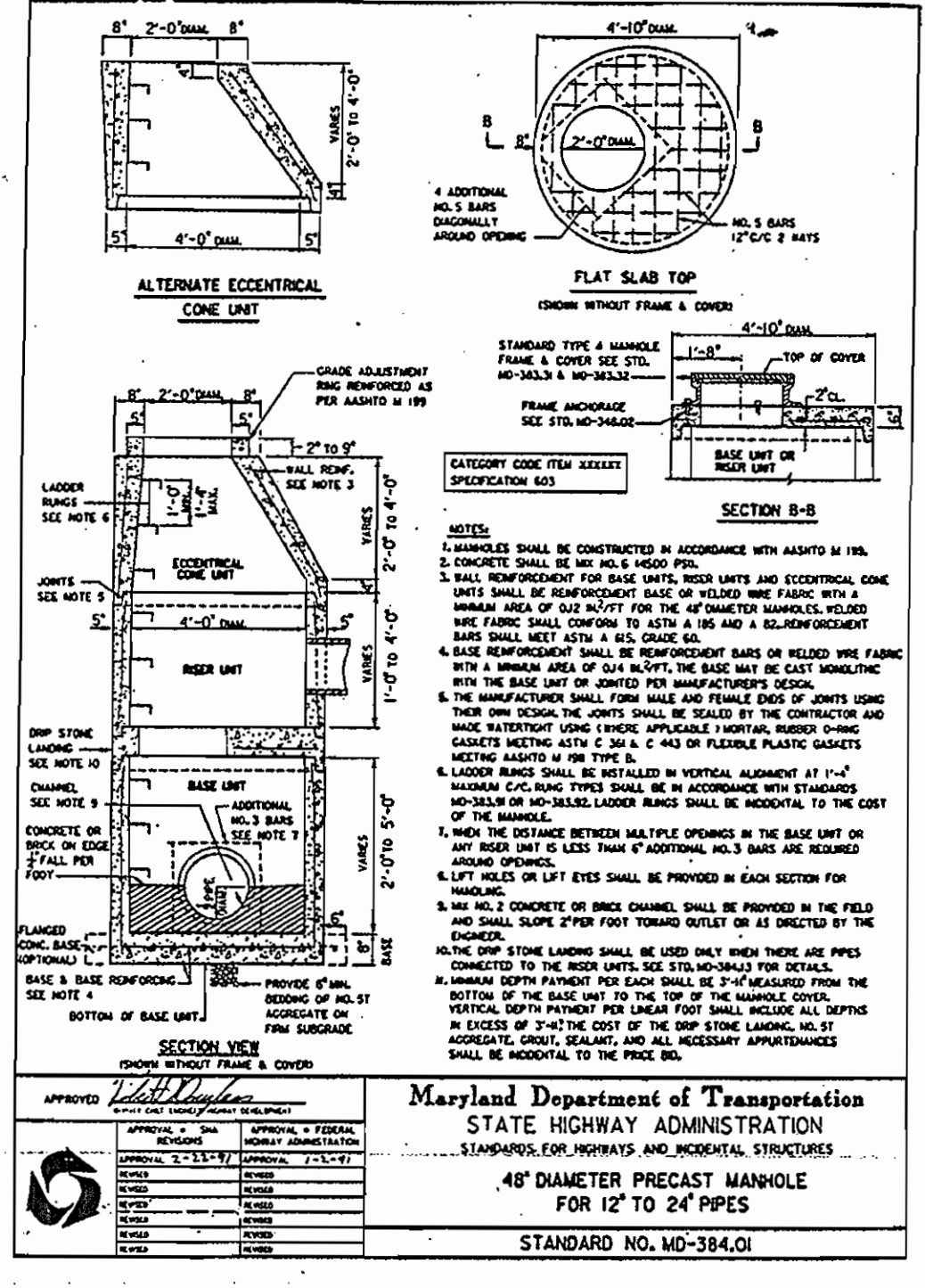
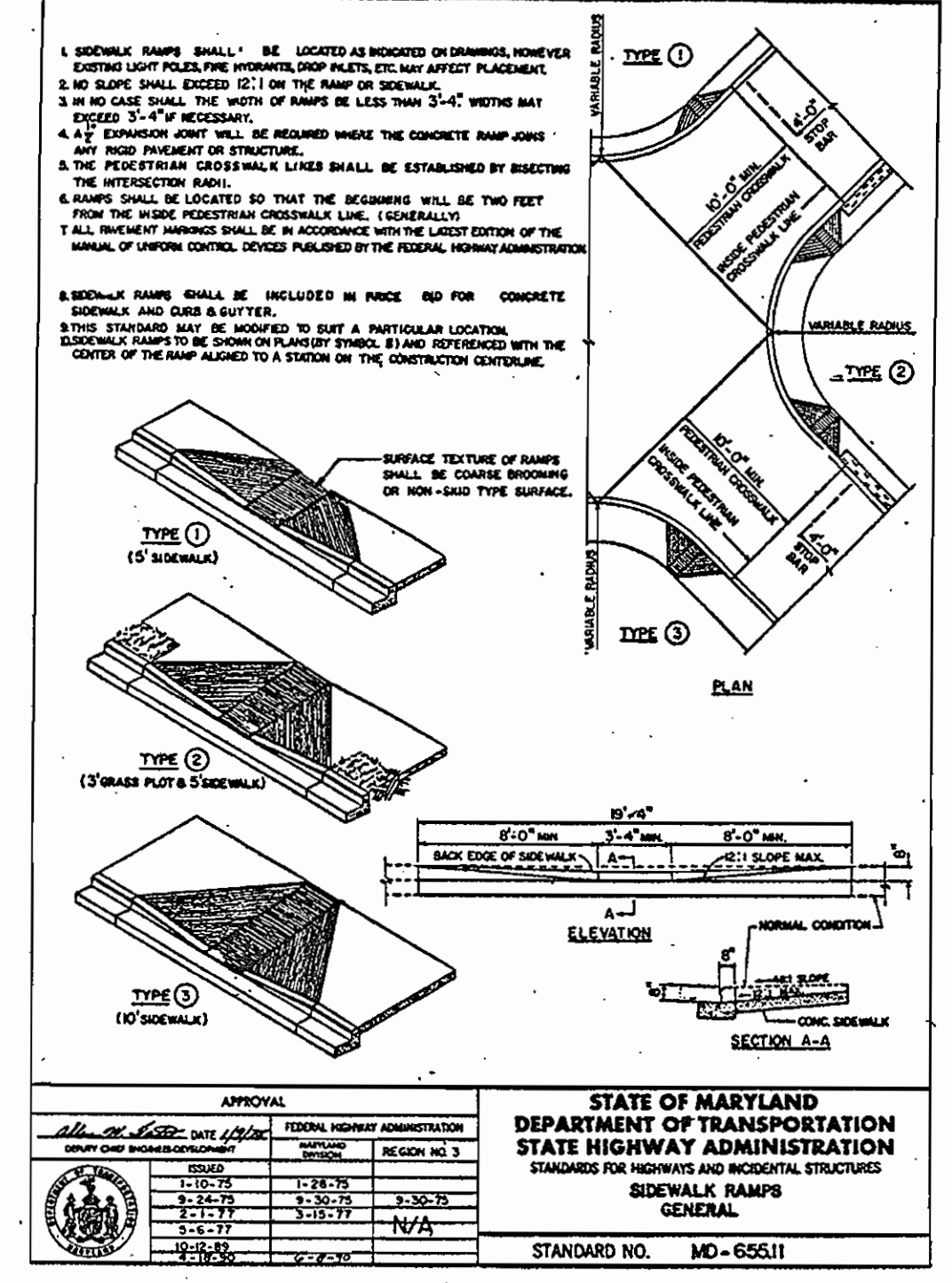
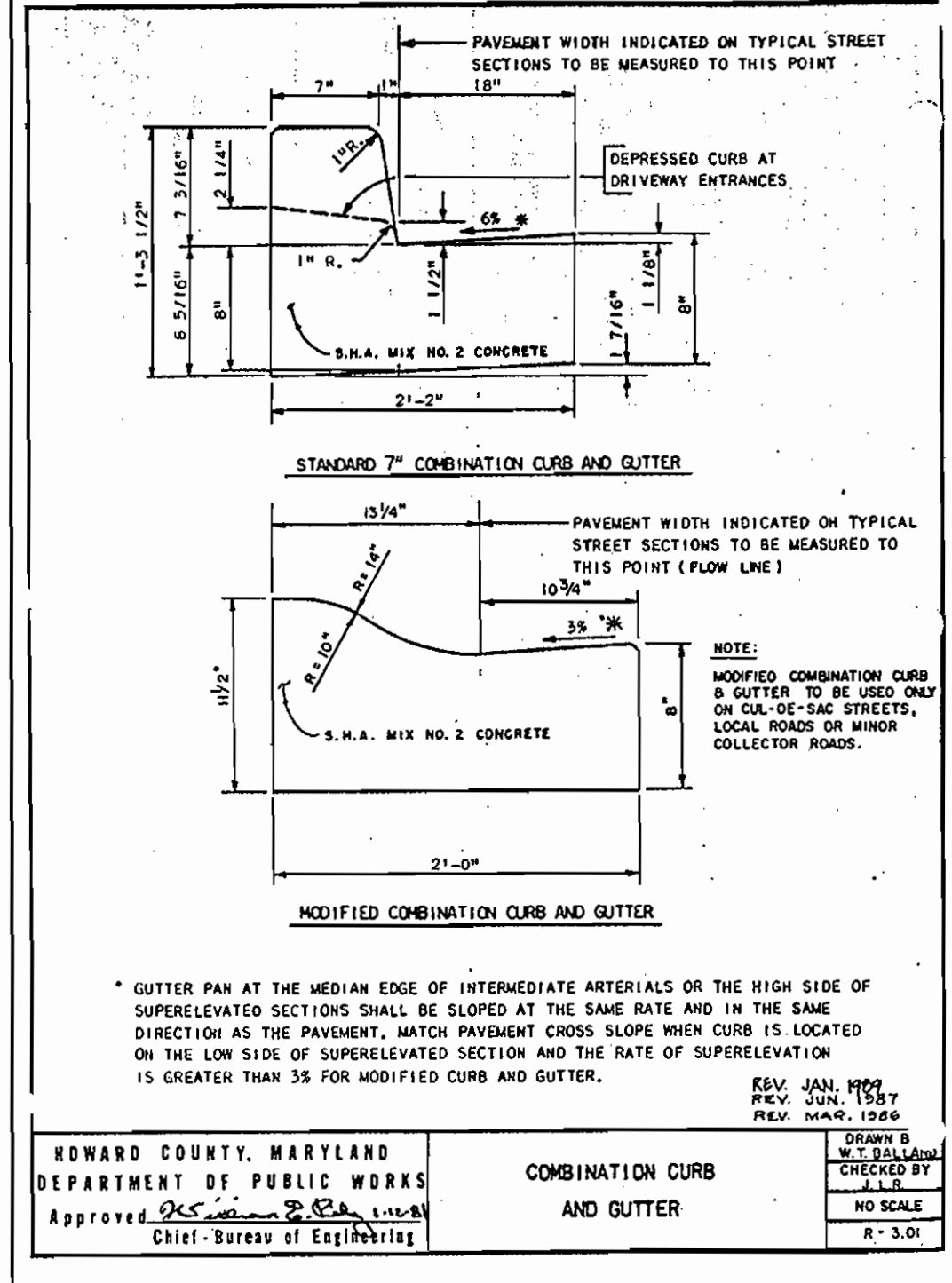
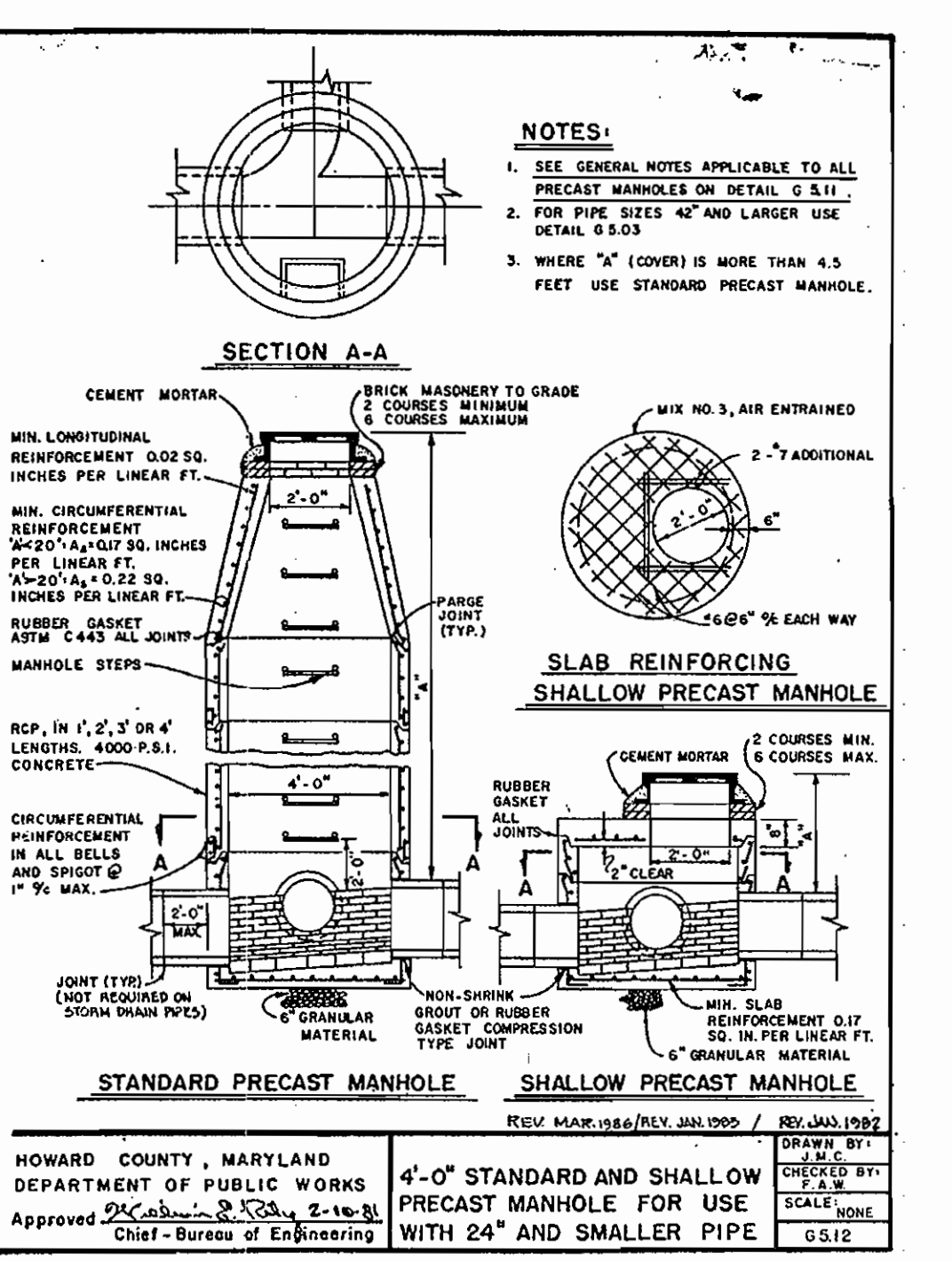
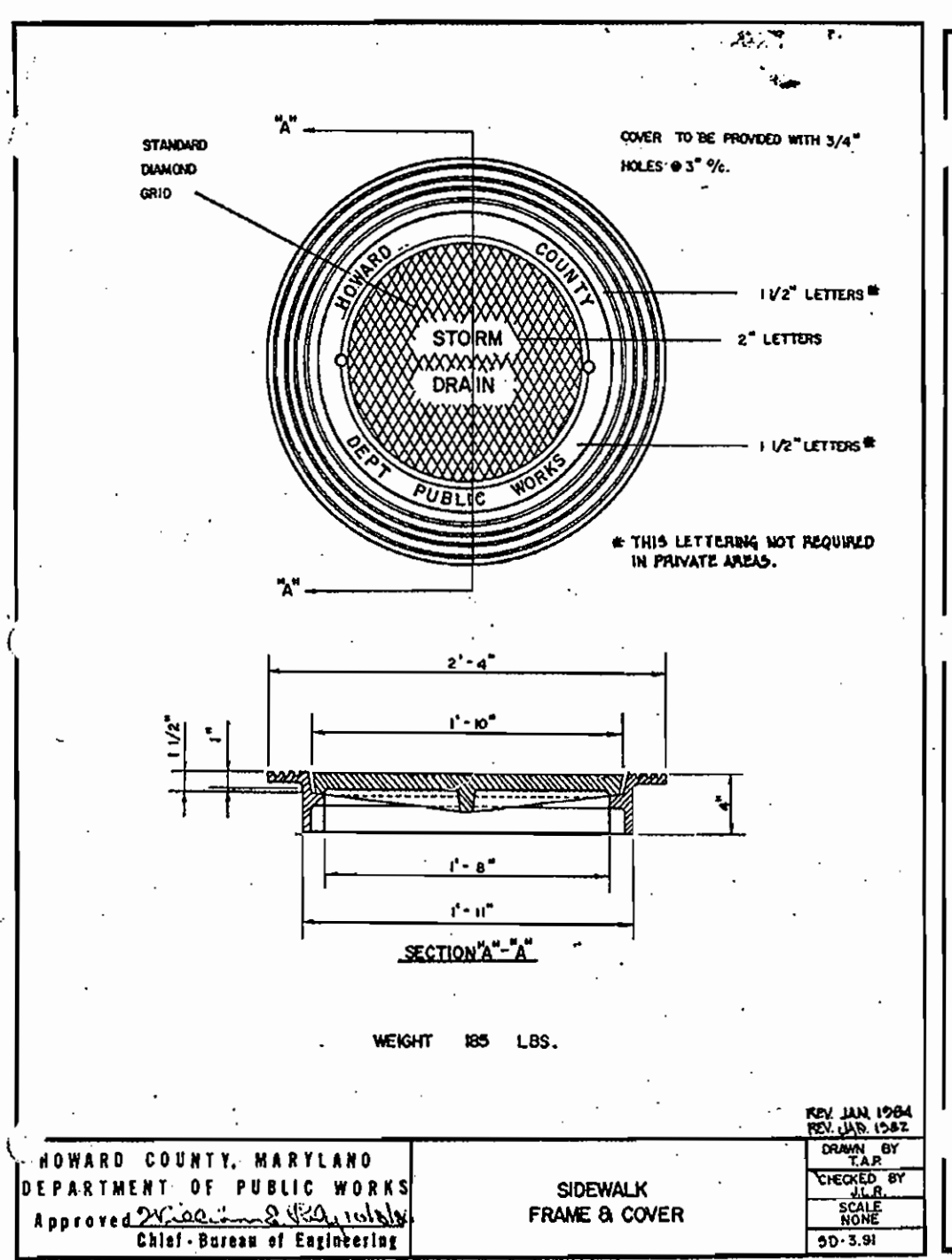
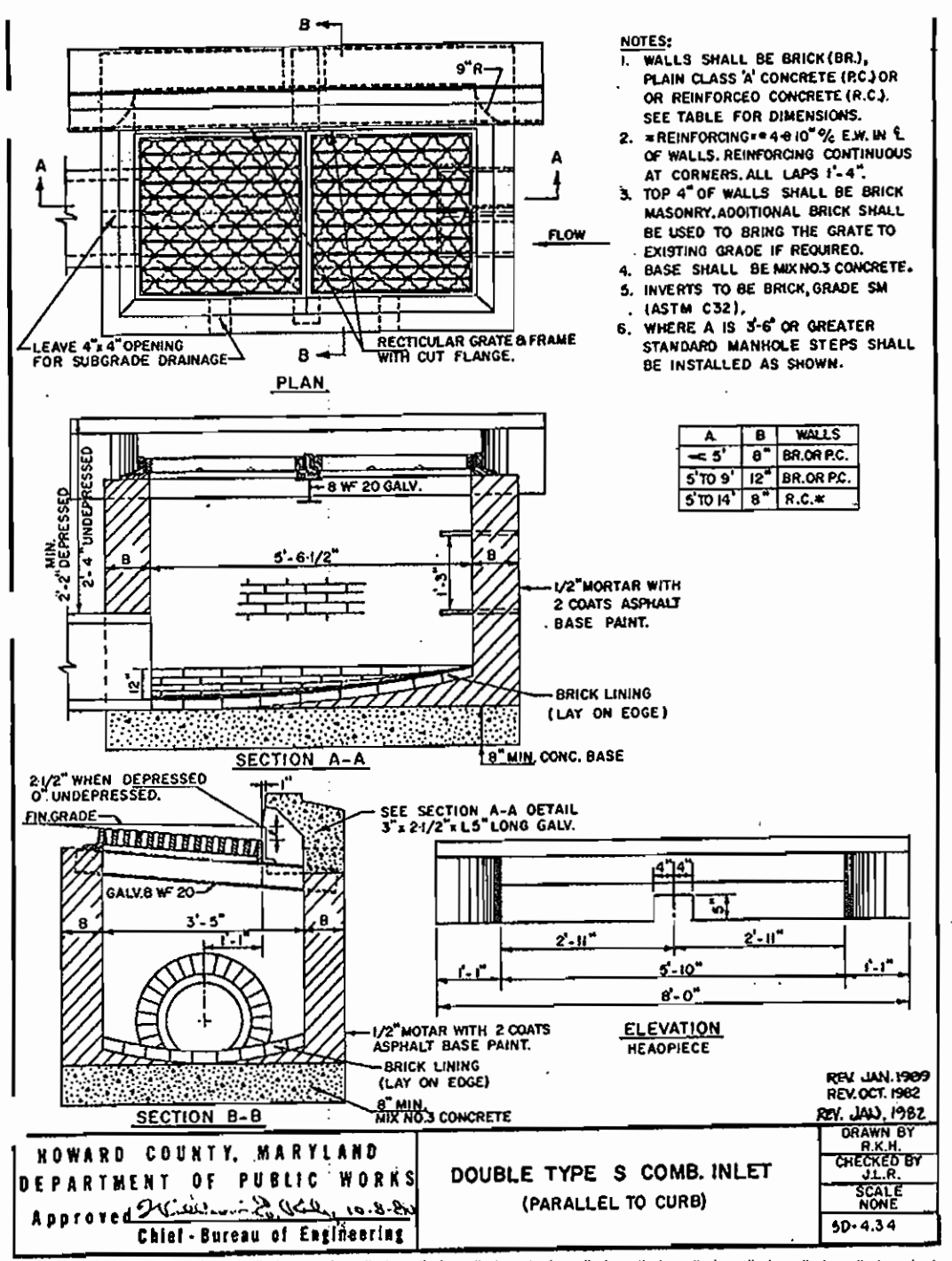
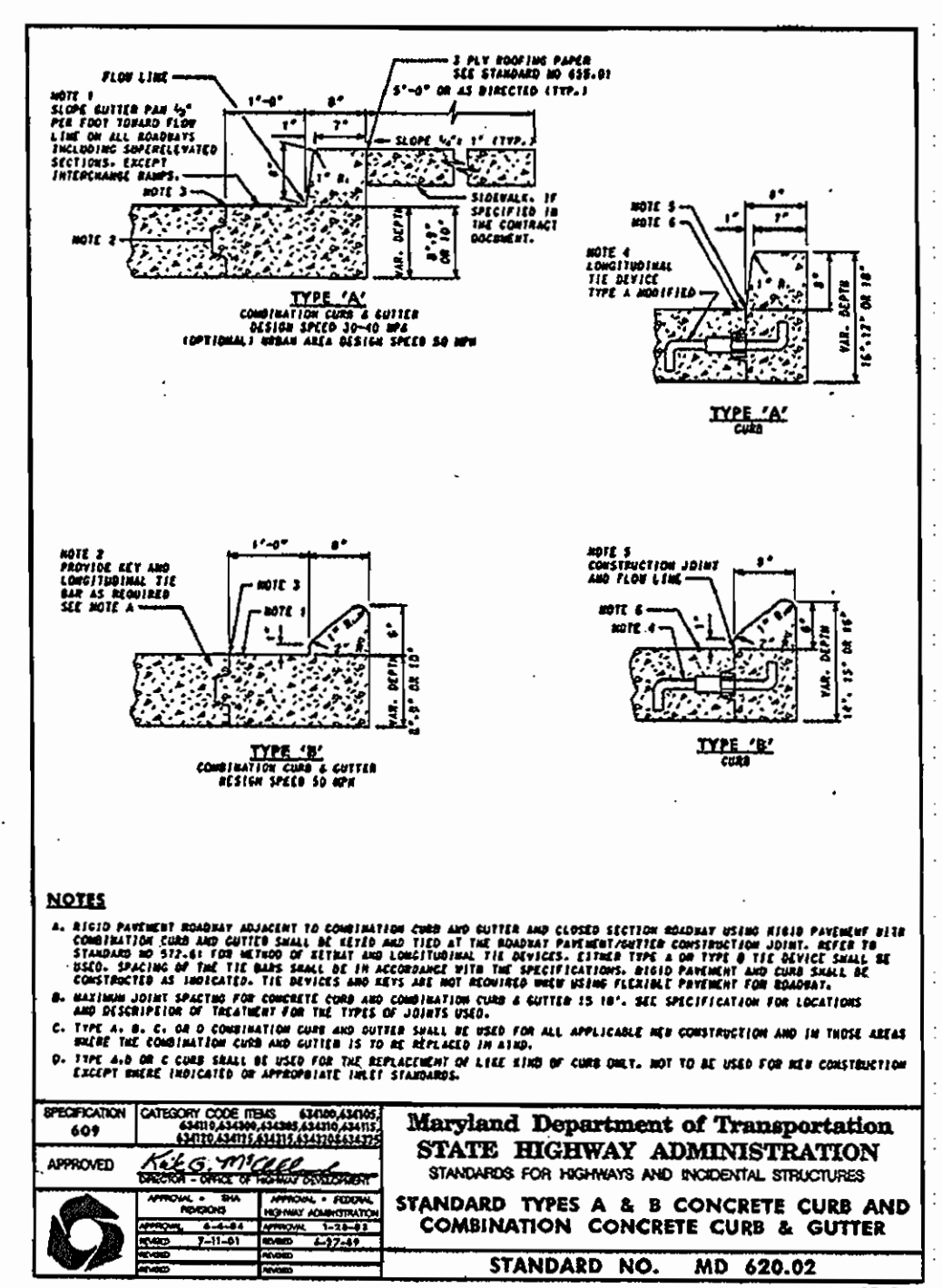
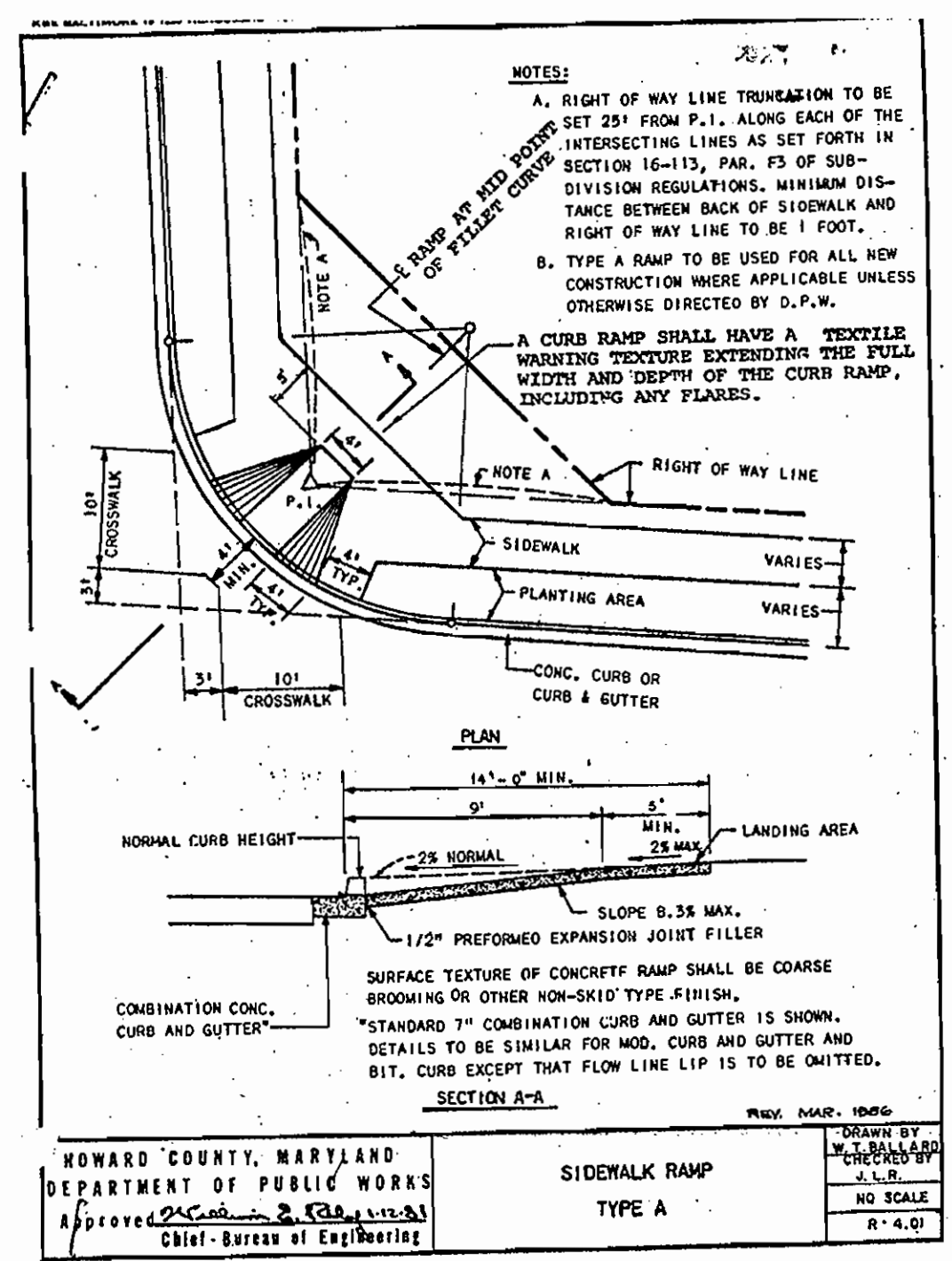


GENERAL NOTE:
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MISS UTILITY
 BEFORE YOU DIG CALL 800-551-7777
 PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

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 48 HOURS PRIOR TO ANY CONSTRUCTION.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Robert A. Welch 10/30/06
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 CHIEF DIVISION OF LAND DEVELOPMENT
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Robert A. Welch 10/30/06
 COUNTY HEALTH OFFICER
 CLARKSVILLE HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION

OWNERS: PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029
 PARCEL B-1 ANSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029
 PARCEL C-1 ANTWERPEN JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029

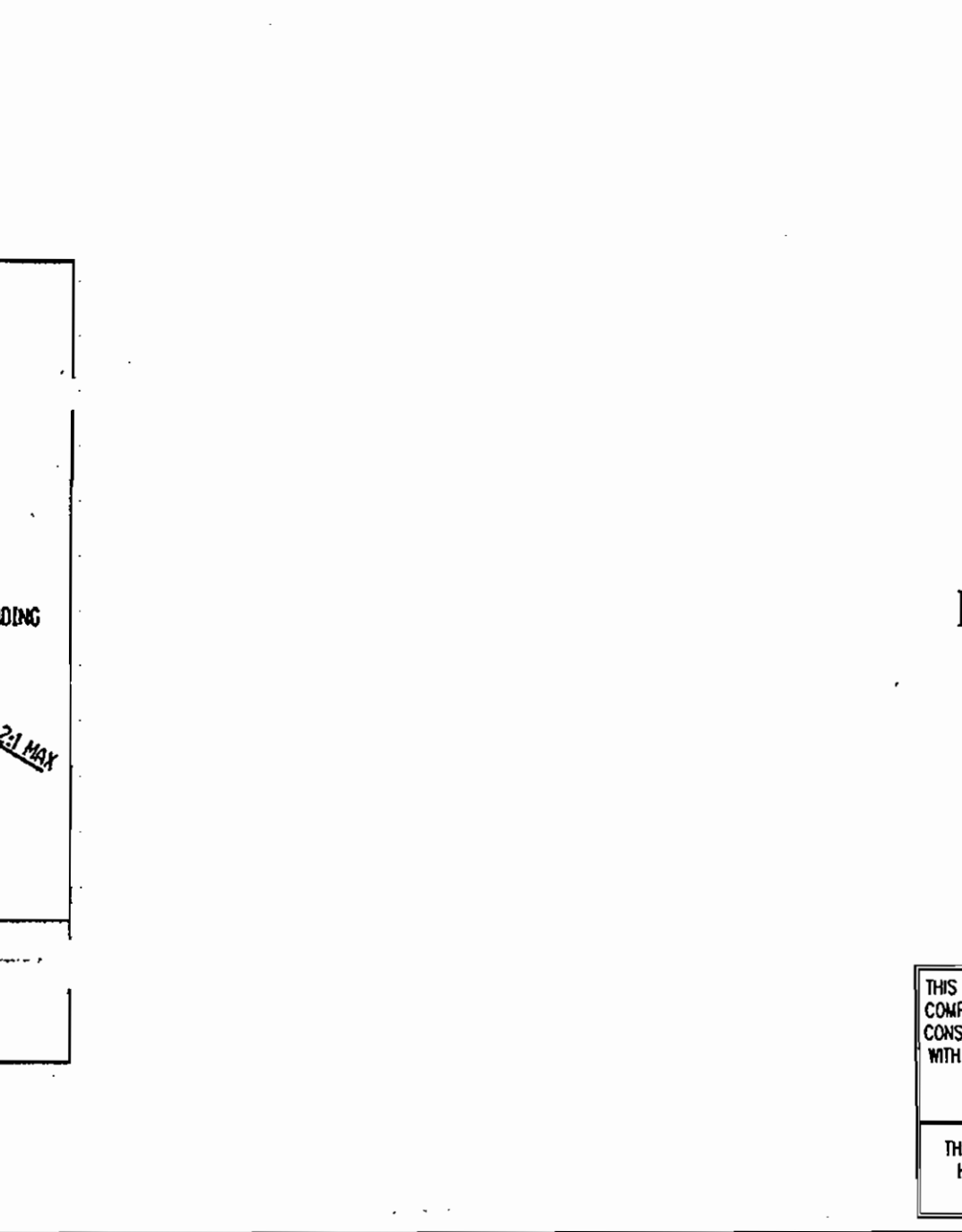
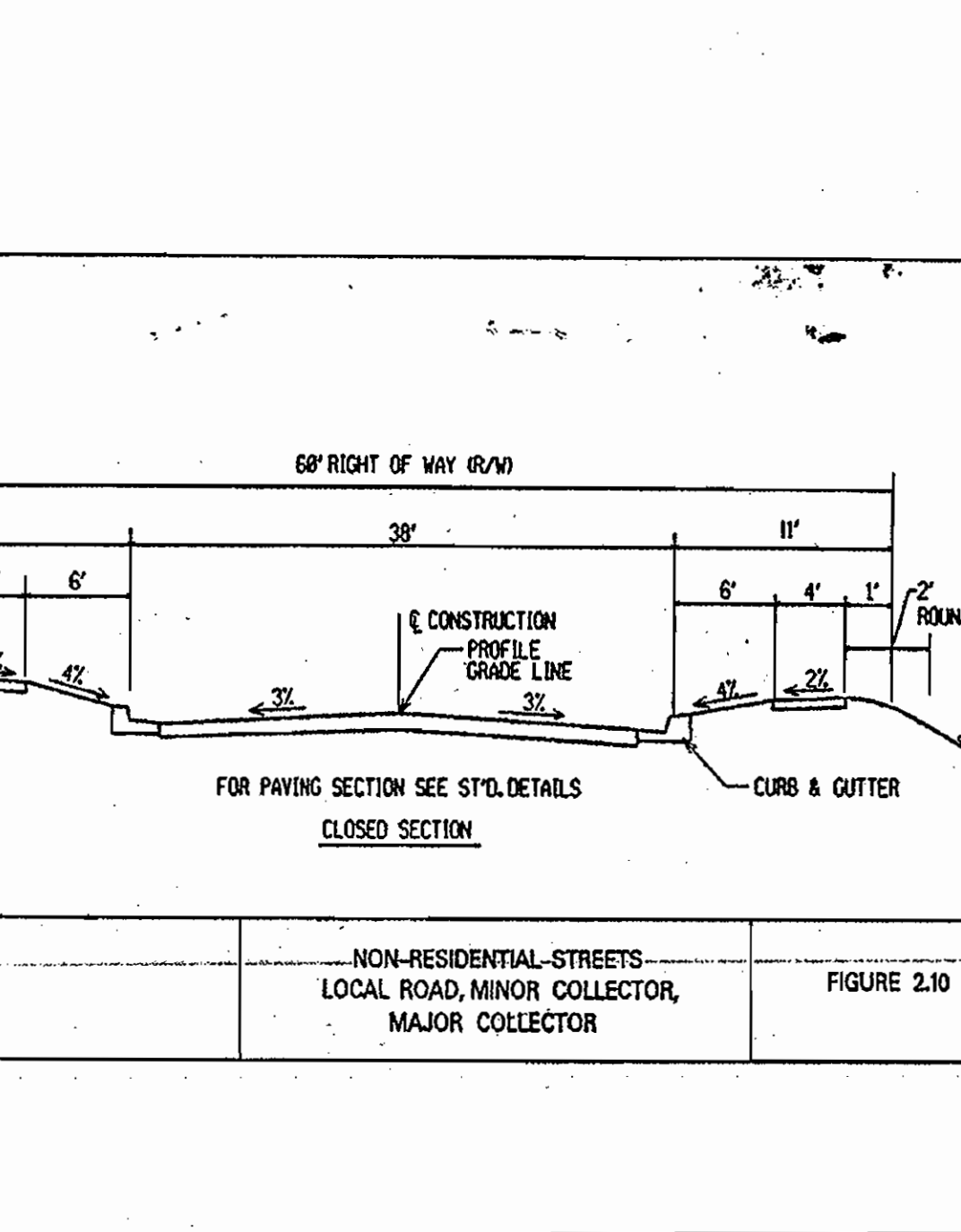
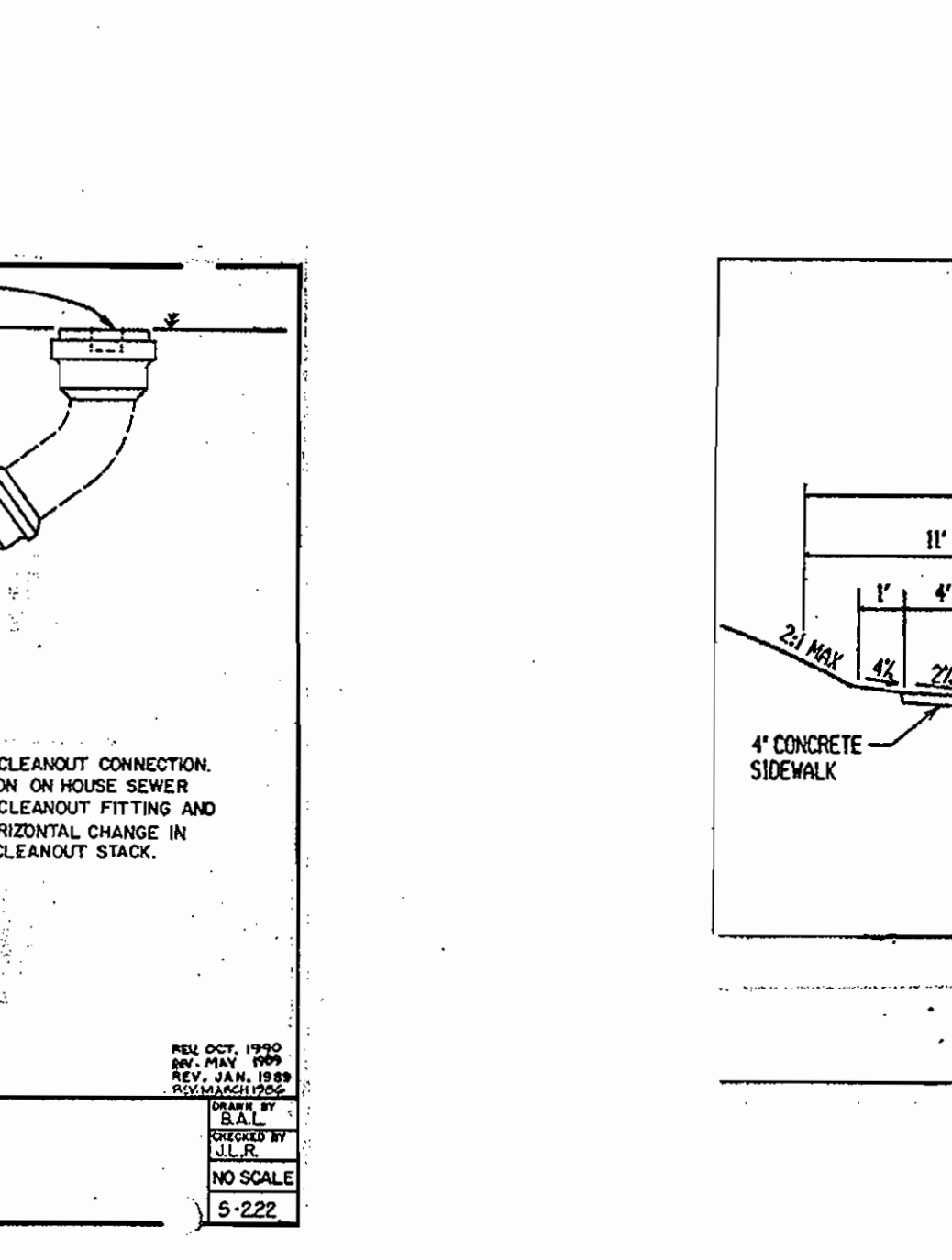
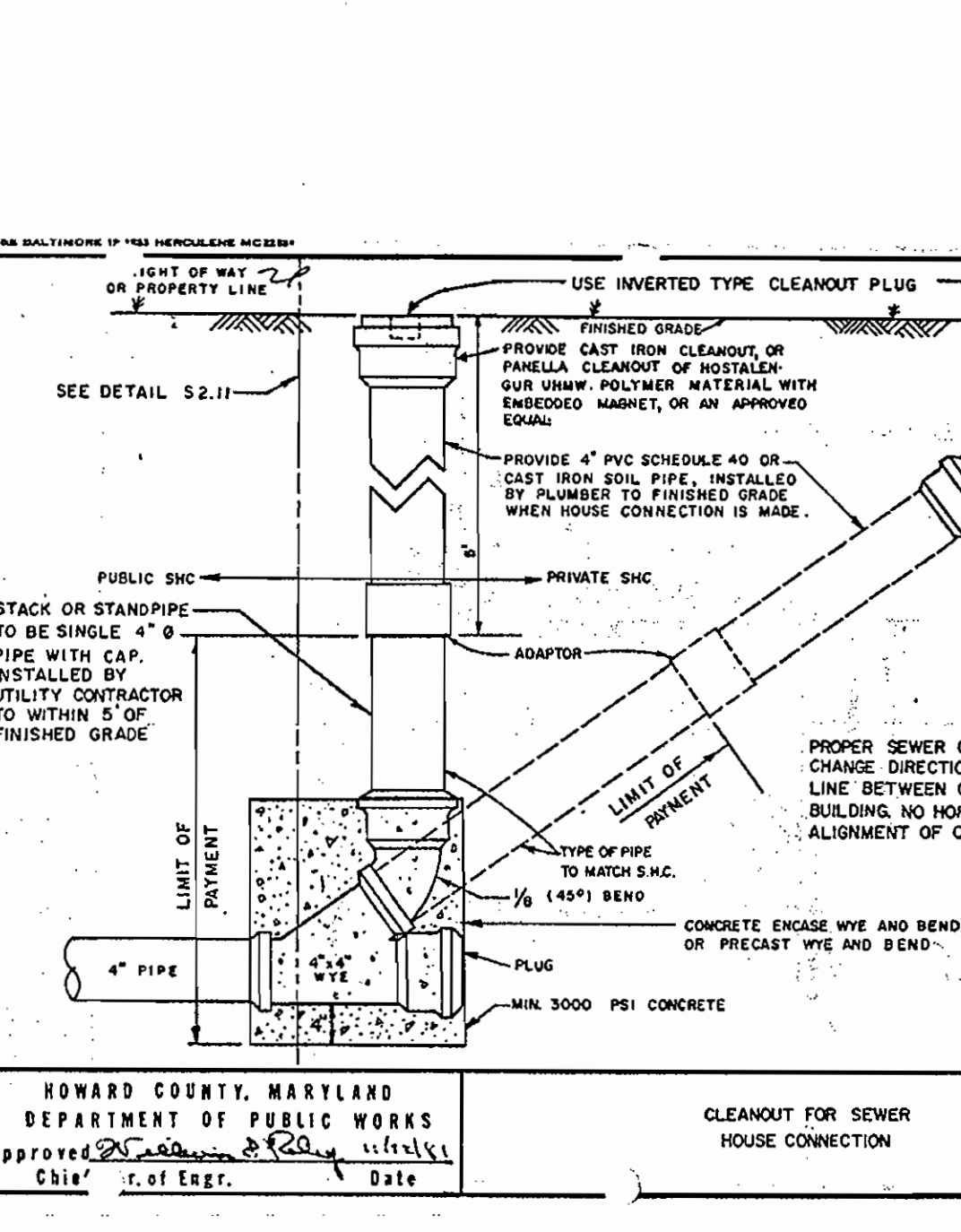
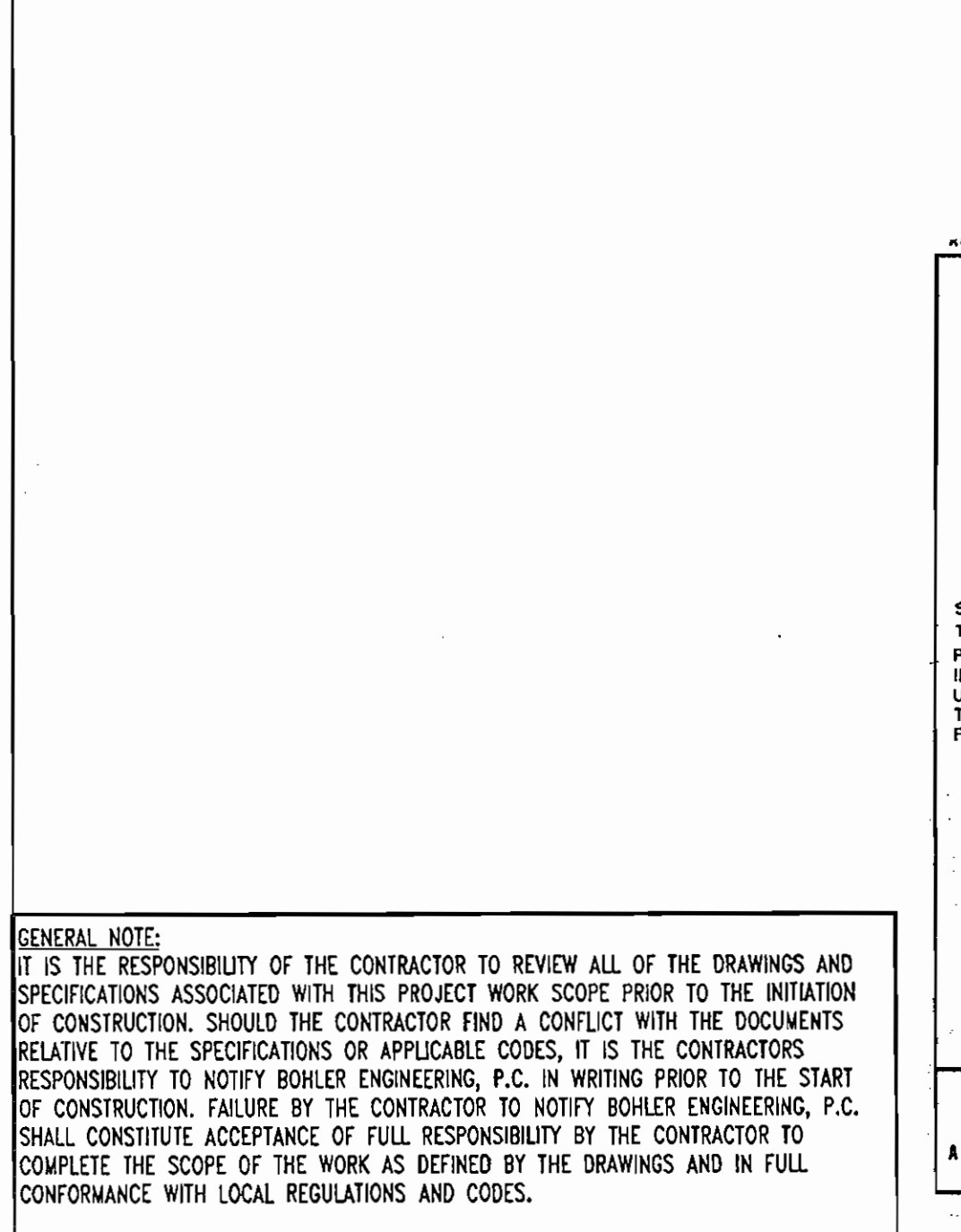
DEVELOPER: JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228
 ATTN: JACOB ANTWERPEN
Frank Chappin

PROJECT: ANTWERPEN AUTOMOTIVE 12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND
 AREA: TAX MAP 34 GRID 12 ZONED 8-2
 PARCELS A, B-1 and C-1
 Plat No(s) 18588-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: CONSTRUCTION DETAILS

BOHLER ENGINEERING, P.C.
 PROFESSIONAL ENGINEERING SERVICES
 4110 CLEVELANDS COURT, SUITE 300, TOWSON, MD 21286
 (410) 851-7900 FAX: (410) 851-7987 | www.bohlereng.com

DESIGNED BY: M.J.G.
 DRAWN BY: J.J.L.
 PROJECT NO.: MD032003.1
 DATE: 07/06/2006
 SCALE: 1"=30'
 DRAWING NO. 18 OF 22



MISS UTILITY

BEFORE YOU DIG CALL 1-800-251-2777
 PROTECT YOURSELF AND OTHERS
 WORKING UNDERGROUND

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 48 HOURS PRIOR TO ANY CONSTRUCTION.

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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

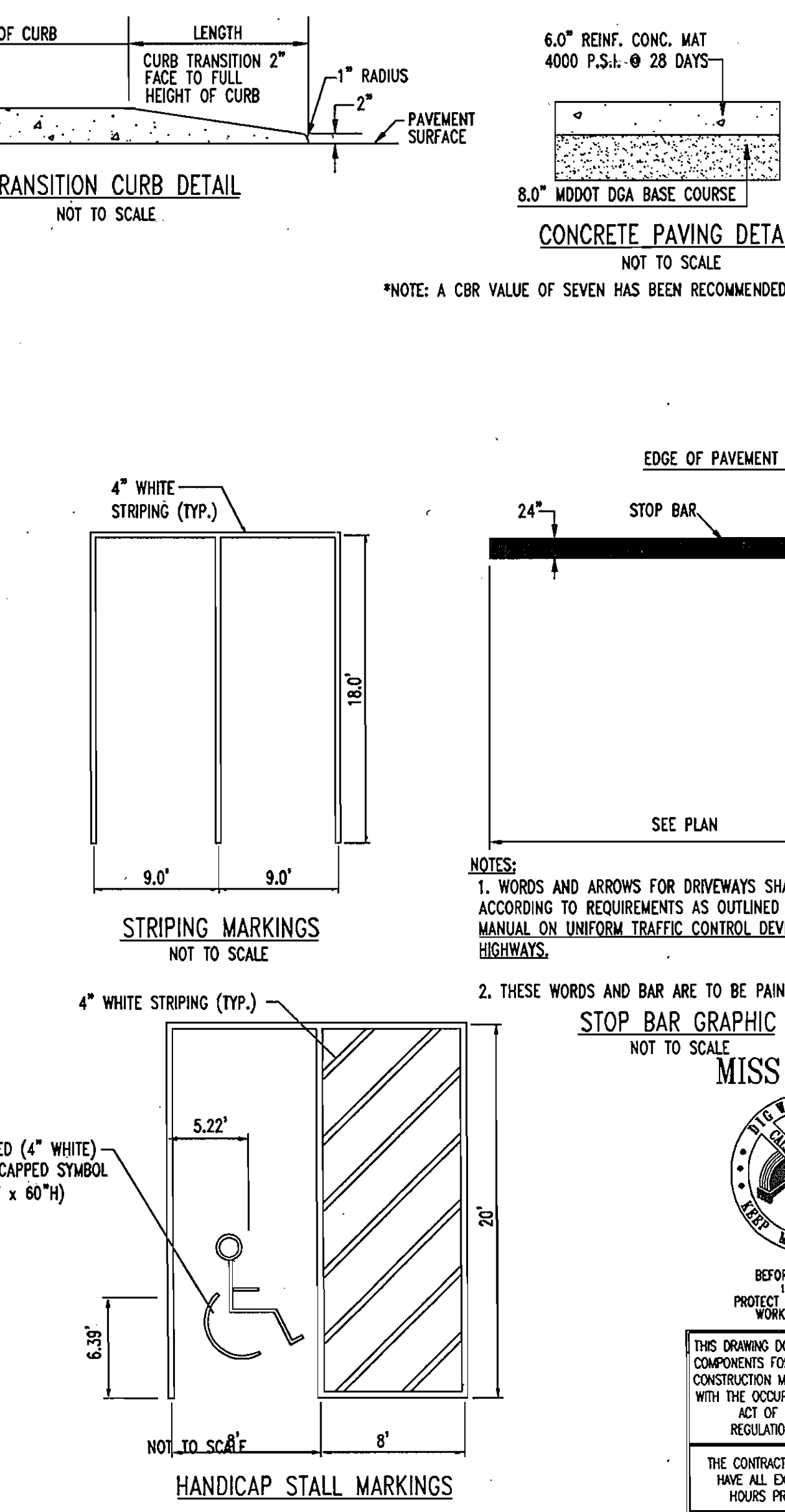
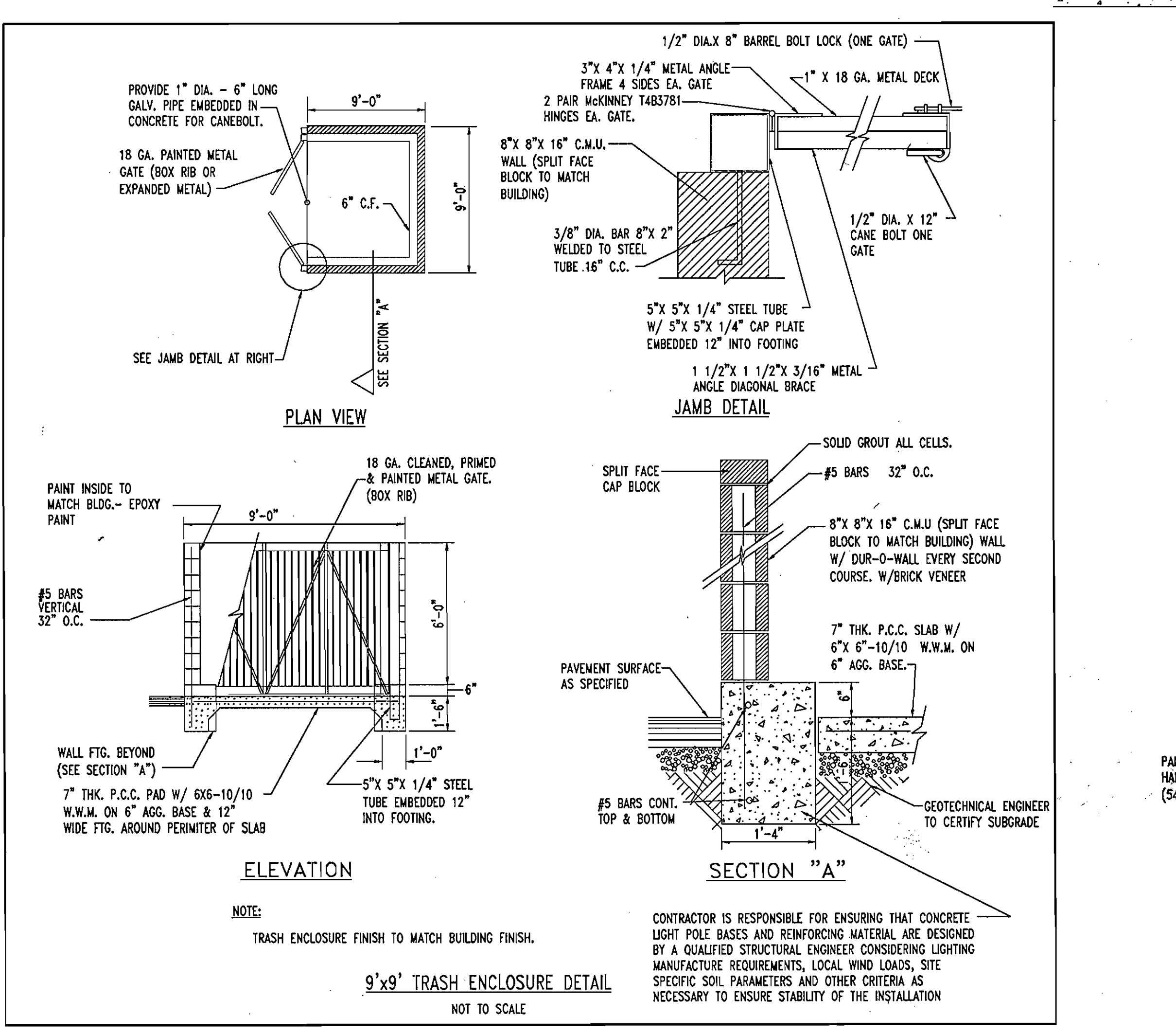
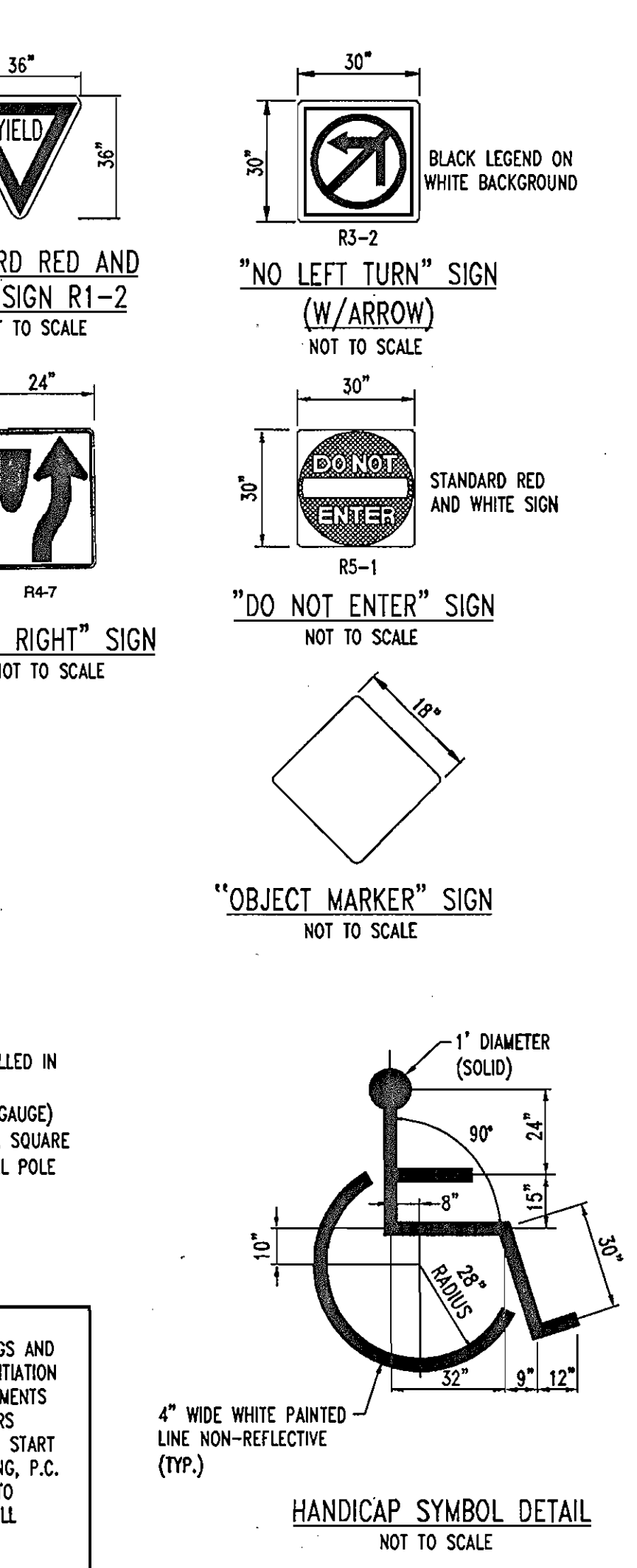
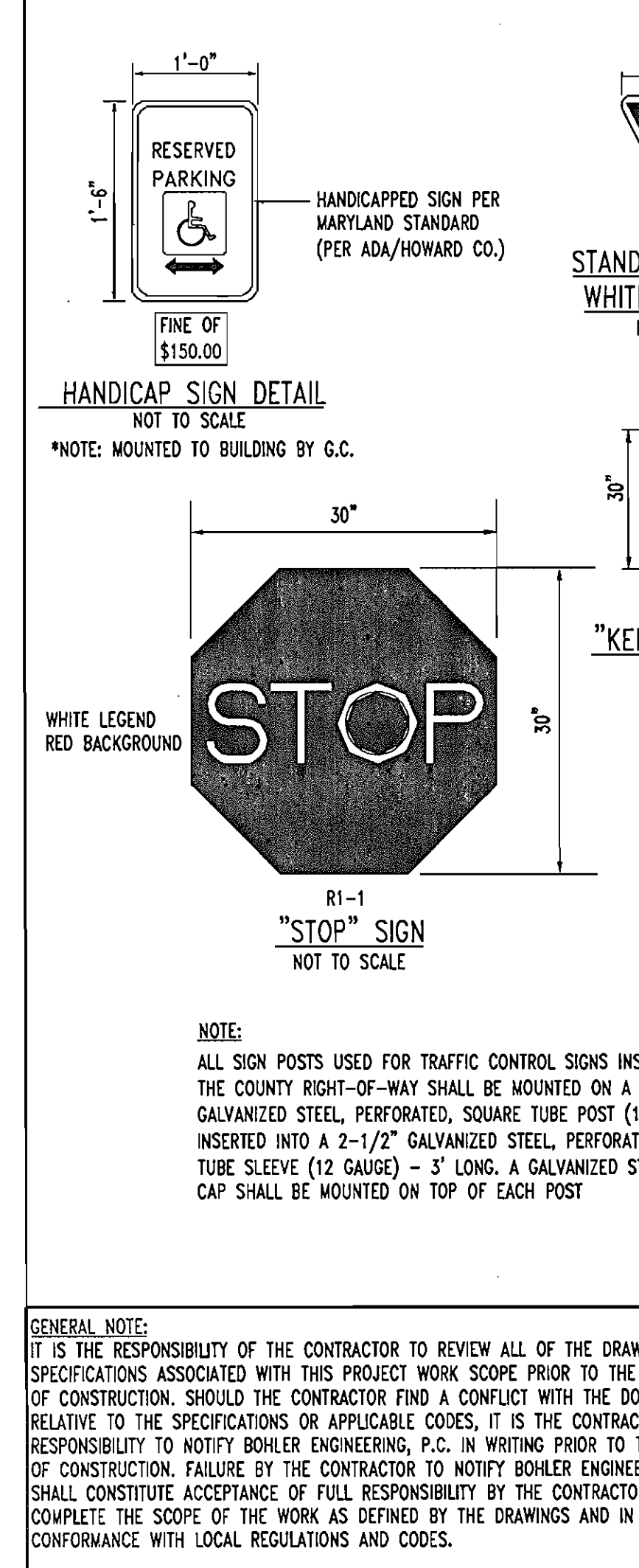
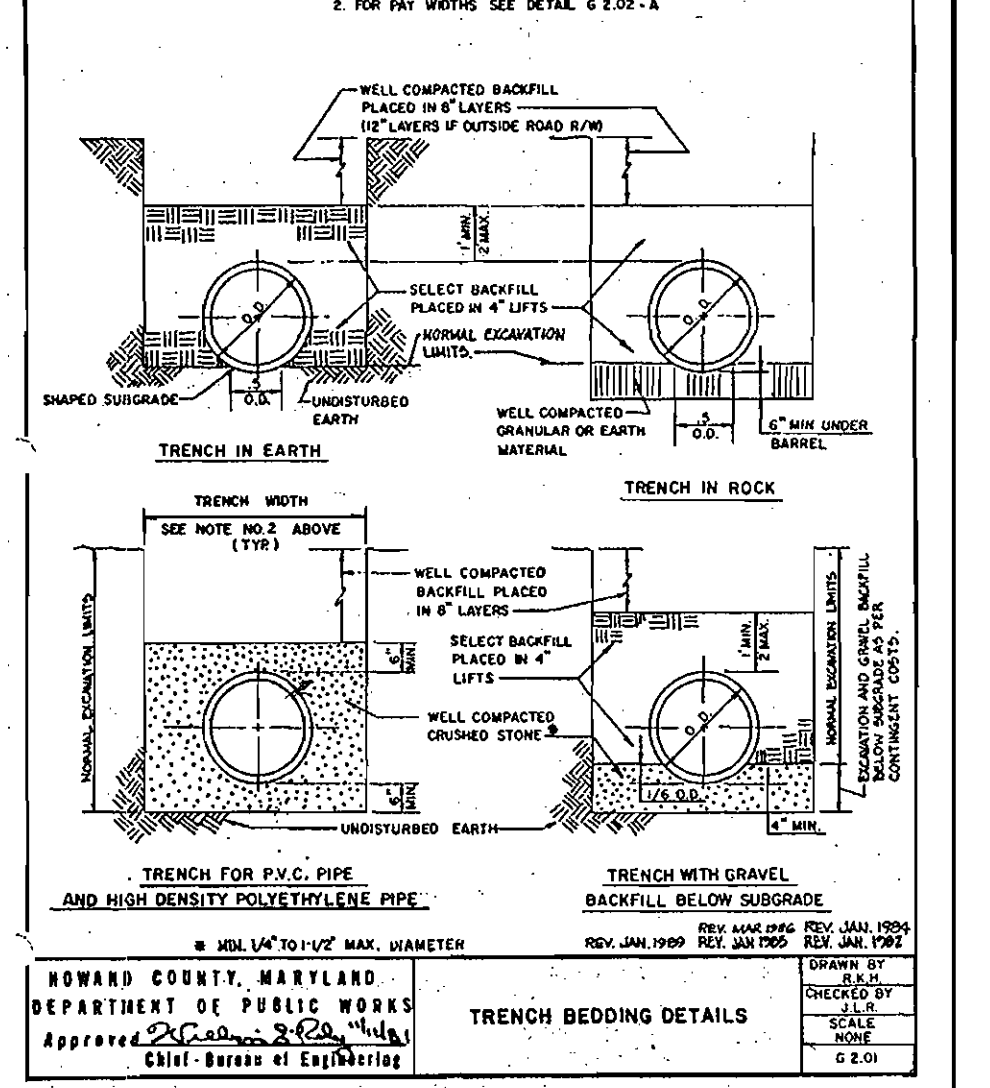
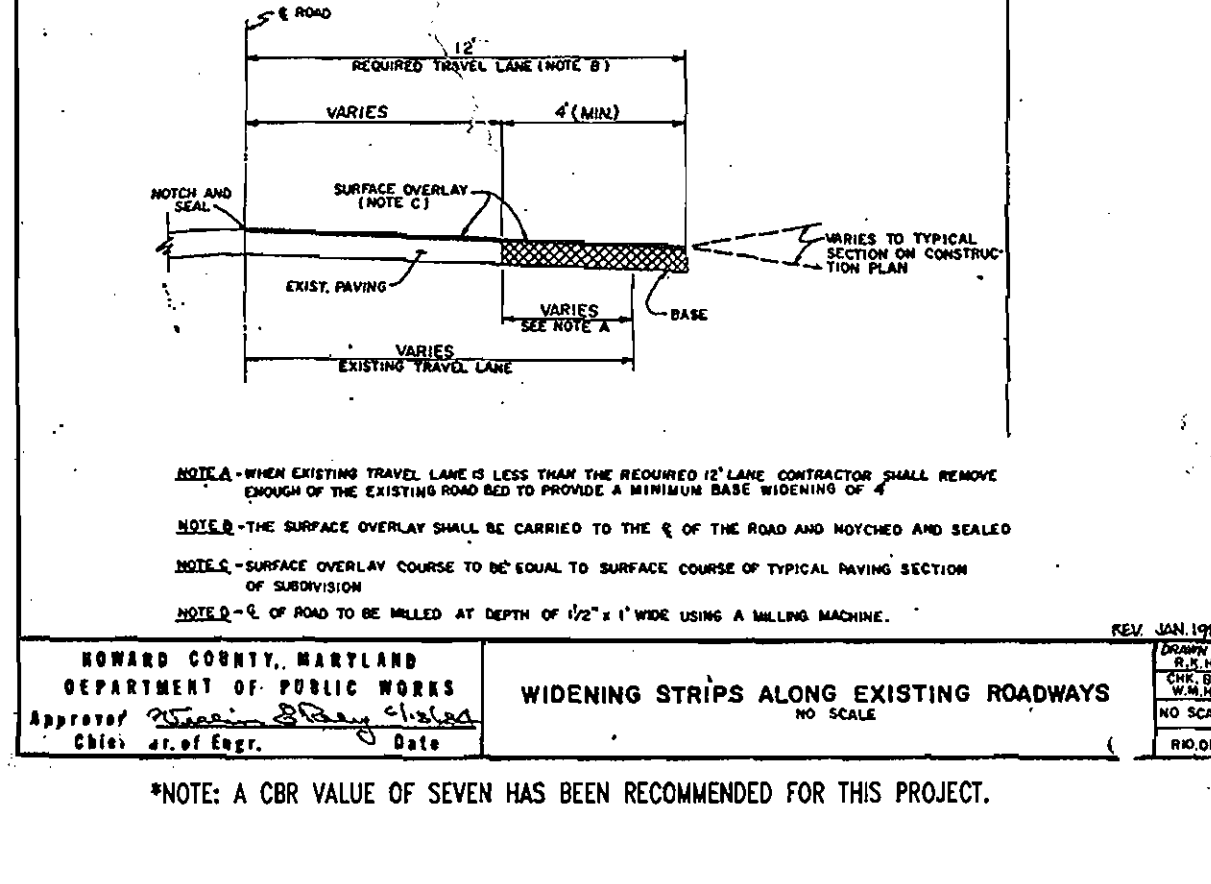
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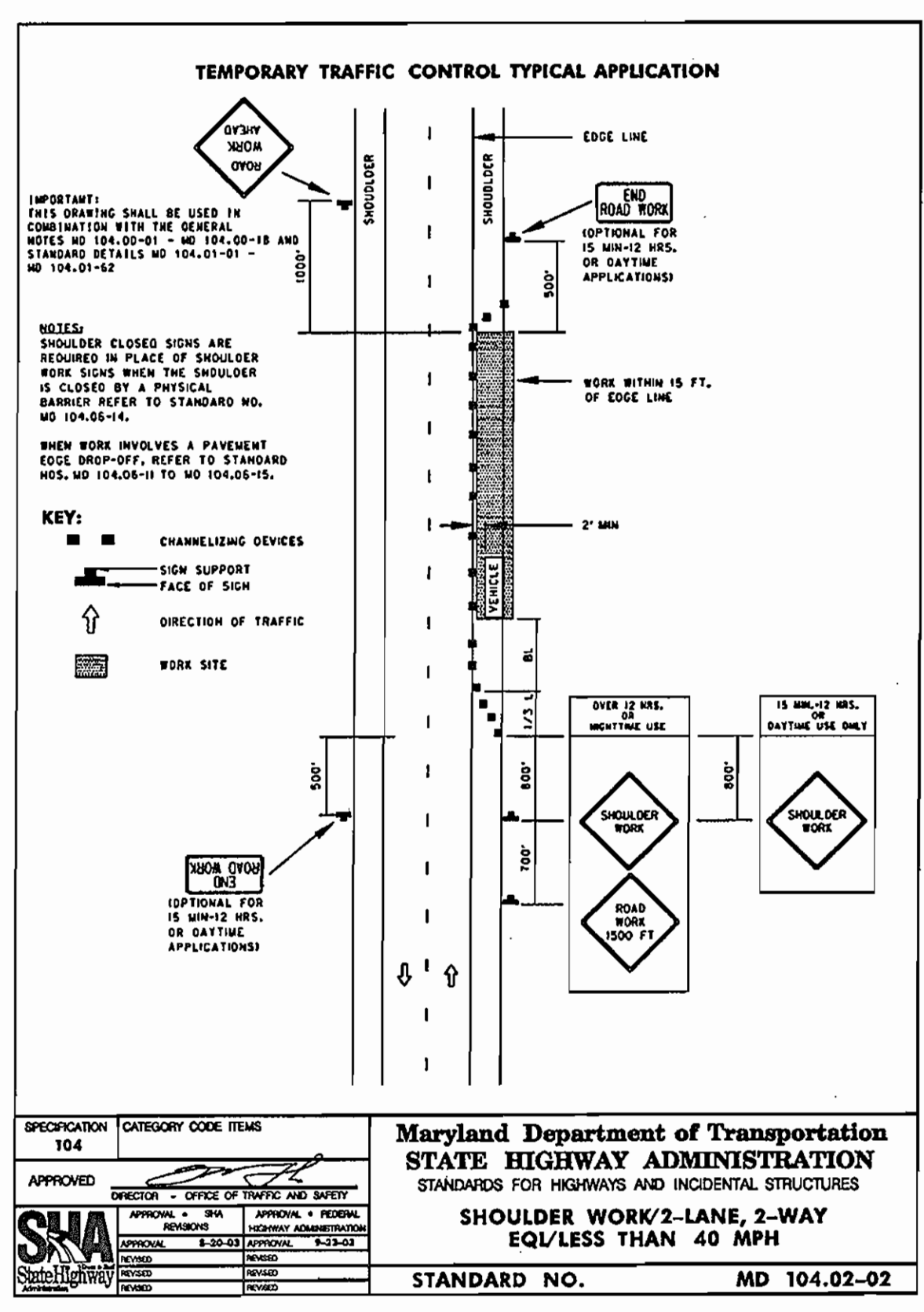
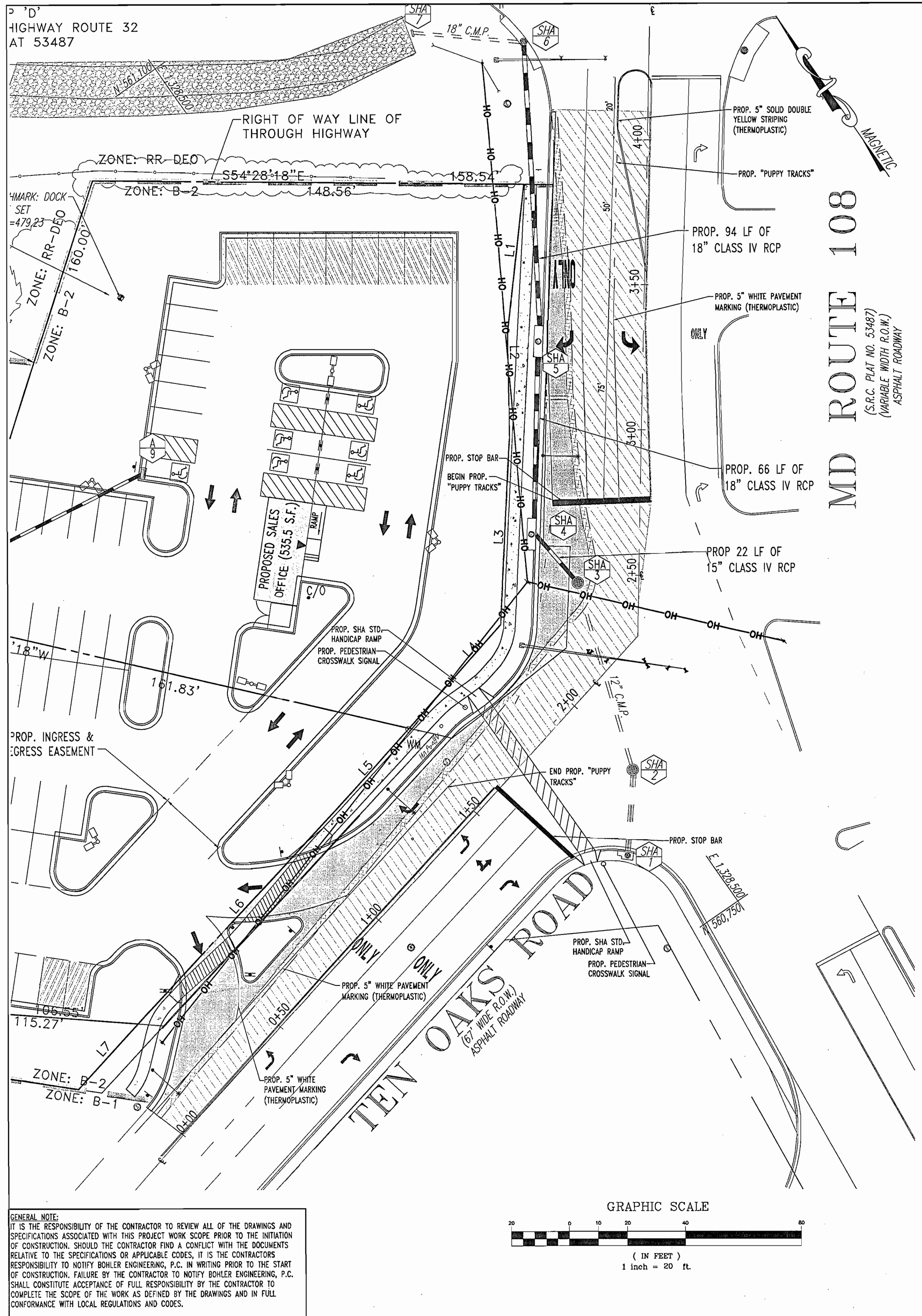
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<p>Project: Proposed Antwerpen Automobile Storage Lot</p> <p>Location: The Old Road & SR 181, Clarksville, Howard County, MD</p> <p>Proposed Location: 475 East 5th St</p> <p>Depth: 10' to 15' below ground</p> <table border="1"> <tr><th>Depth (ft)</th><th>Soil Description</th><th>Remarks</th></tr> <tr><td>0.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>1.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>2.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>3.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>4.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>5.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>6.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>7.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>8.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>9.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>10.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>11.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>12.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>13.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>14.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> <tr><td>15.0</td><td>GRAVEL WITH SAND & SILT</td><td></td></tr> </table>	Depth (ft)	Soil Description	Remarks	0.0	GRAVEL WITH SAND & SILT		1.0	GRAVEL WITH SAND & SILT		2.0	GRAVEL WITH SAND & SILT		3.0	GRAVEL WITH SAND & SILT		4.0	GRAVEL WITH SAND & SILT		5.0	GRAVEL WITH SAND & SILT		6.0	GRAVEL WITH SAND & SILT		7.0	GRAVEL WITH SAND & SILT		8.0	GRAVEL WITH SAND & SILT		9.0	GRAVEL WITH SAND & SILT		10.0	GRAVEL WITH SAND & SILT		11.0	GRAVEL WITH SAND & SILT		12.0	GRAVEL WITH SAND & SILT		13.0	GRAVEL WITH SAND & SILT		14.0	GRAVEL WITH SAND & SILT		15.0	GRAVEL WITH SAND & SILT	
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SECTION NUMBER	ROAD AND STREET CLASSIFICATION	FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING DRIVEWAYS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE
P-2	RESIDENTIAL ZONES LOCAL, COLLECTOR, ARTERIAL AND PRIVATE ROADS SERVING RESIDENTIAL ZONES WITH NO HEAVY TRUCKS	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4" GRADED AGGREGATE BASE (GAB)
P-3	RESIDENTIAL ZONES ARTERIAL AND MAJOR COLLECTOR COMMERCIAL-INDUSTRIAL ZONES LOCAL AND COLLECTOR STREETS	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 5" GRADED AGGREGATE BASE (GAB)
P-4	COMMERCIAL-INDUSTRIAL ZONES MAJOR COLLECTOR	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE



APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>	DATE	
<i>[Signature]</i>	DATE	
<i>[Signature]</i>	DATE	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.		
<i>[Signature]</i>	DATE	
<i>[Signature]</i>	DATE	
REVISIONS		
NO.	DATE	REVISION DESCRIPTION
<p>OWNERS: PARCEL A, ANTOPY, LLC, 12400 ROUTE 108, CLARKSVILLE, MARYLAND 21029</p> <p>PARCEL B-1, ANSTORE, LLC, 6389 TEN OAKS ROAD, CLARKSVILLE, MARYLAND 21029</p> <p>PARCEL C-1, ANWERPEN JACOB W, 6381 NW TEN OAKS ROAD, CLARKSVILLE, MARYLAND 21029</p> <p>PROJECT: ANTWERPEN AUTOMOTIVE, 12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND</p> <p>AREA TAX MAP 34 GRID 12 ZONED B-2</p> <p>TITLE: CONSTRUCTION DETAILS</p> <p>BOHLER ENGINEERING, P.C.</p> <p>PROFESSIONAL ENGINEERING SERVICES 8110 GLASSBORO COURT, SUITE 300, TOWSON, MD 21286 (410) 62-7000 FAX (410) 62-7871</p> <p>DESIGNED BY: M.J.C.</p> <p>DRAWN BY: J.L.L.</p> <p>PROJECT NO.: MD032003.1</p> <p>DATE: 07/05/2006</p> <p>SCALE: 1"=30'</p> <p>DRAWING NO. 19 OF 22</p>		



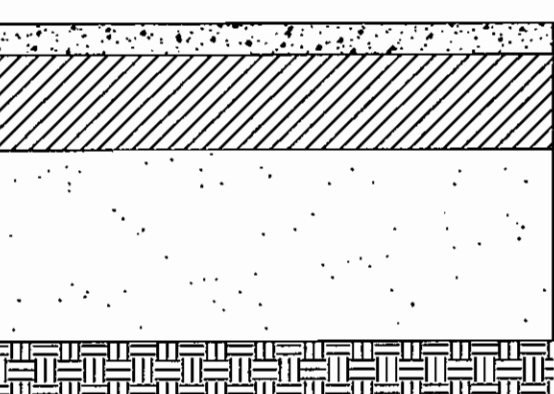
NOTE:
SHA 8" CURB TO TRANSITION TO HOWARD COUNTY STANDARD 6" CURB PT STATION 1+74.62

LINE TABLE

LINE	BEARING	DISTANCE
L1	S41°09'07"W	51.51'
L2	S33°45'38"W	35.68'
L3	S37°46'58"W	64.66'
L4	S76°40'36"W	47.51'
L5	S76°40'36"W	29.35'
L6	S75°35'07"W	108.88'
L7	S77°35'07"W	30.42'

MD SHA PIPE SCHEDULE

SIZE	TYPE	TOTAL LENGTH
18"	CLASS IV RCP	160 L.F.
15"	CLASS IV RCP	22 L.F.



MD SHA TYP "A" CURB & GUTTER (STANDARD NO. MD-620.02)

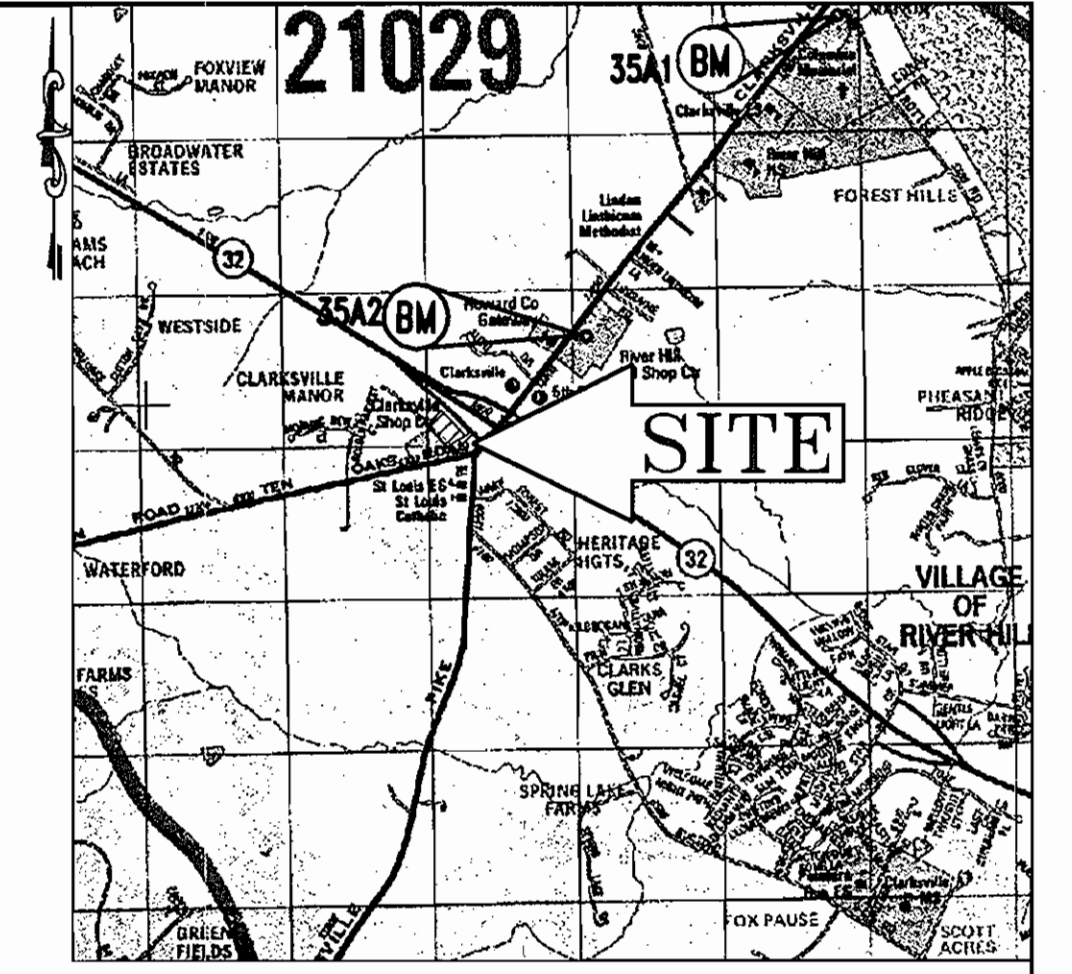
GRASS BACKING
4" PLACED TOPSOIL STABILIZED WITH MULCH
GUTTER
REFER TO SHA ACCESS PERMIT FOR STD PAVING DEPTHS

LIMIT OF CONSTRUCTION EX. CENTERLINE
VARIES
VARIES REFER TO GRADING PLAN
EX. SUB-BASE
PROP. 2" DEEP MILL WITH ASPHALT OVERLAP JOINT

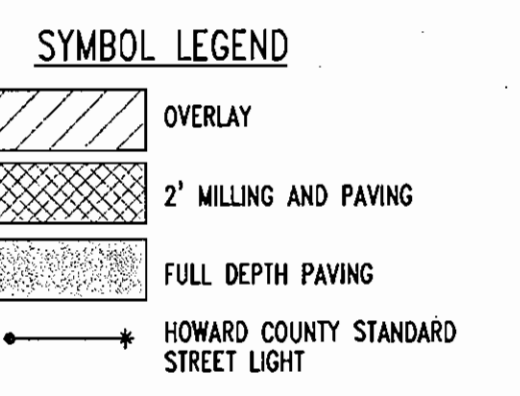
*NOTE: BASED ON THE GEOTECH REPORT PREPARED BY WHITESTONE ASSOCIATES, INC. FOR ANTWERPEN AUTOMOTIVE (PROJECT NO. WPO6-8367) DATED FEBRUARY 16, 2006, THE ANTICIPATED CBR FOR THIS SITE IS 7.

TYPICAL SECTION
N.T.S.

- MAINTENANCE OF TRAFFIC GENERAL NOTES**
- HOWARD COUNTY AND THE MD SHA SHALL BE NOTIFIED AT LEAST 48 HRS. 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 MD SHA STANDARDS.
 - CONTRACTOR TO USE M.U.T.C.D. STANDARDS FOR ALL TRAFFIC MAINTENANCE SIGNAGE.
 - 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 VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC.
 - SIGNAGE PLAN SHOWN ON SHEET 22 SHALL BE USED DURING LANE WIDENING CONSTRUCTION. DURING THE REPAVING OF TEN OAKS ROAD, THE SIGNAGE PLAN FOR SHOULDER WORK (MD 104.02-02) SHALL BE USED.



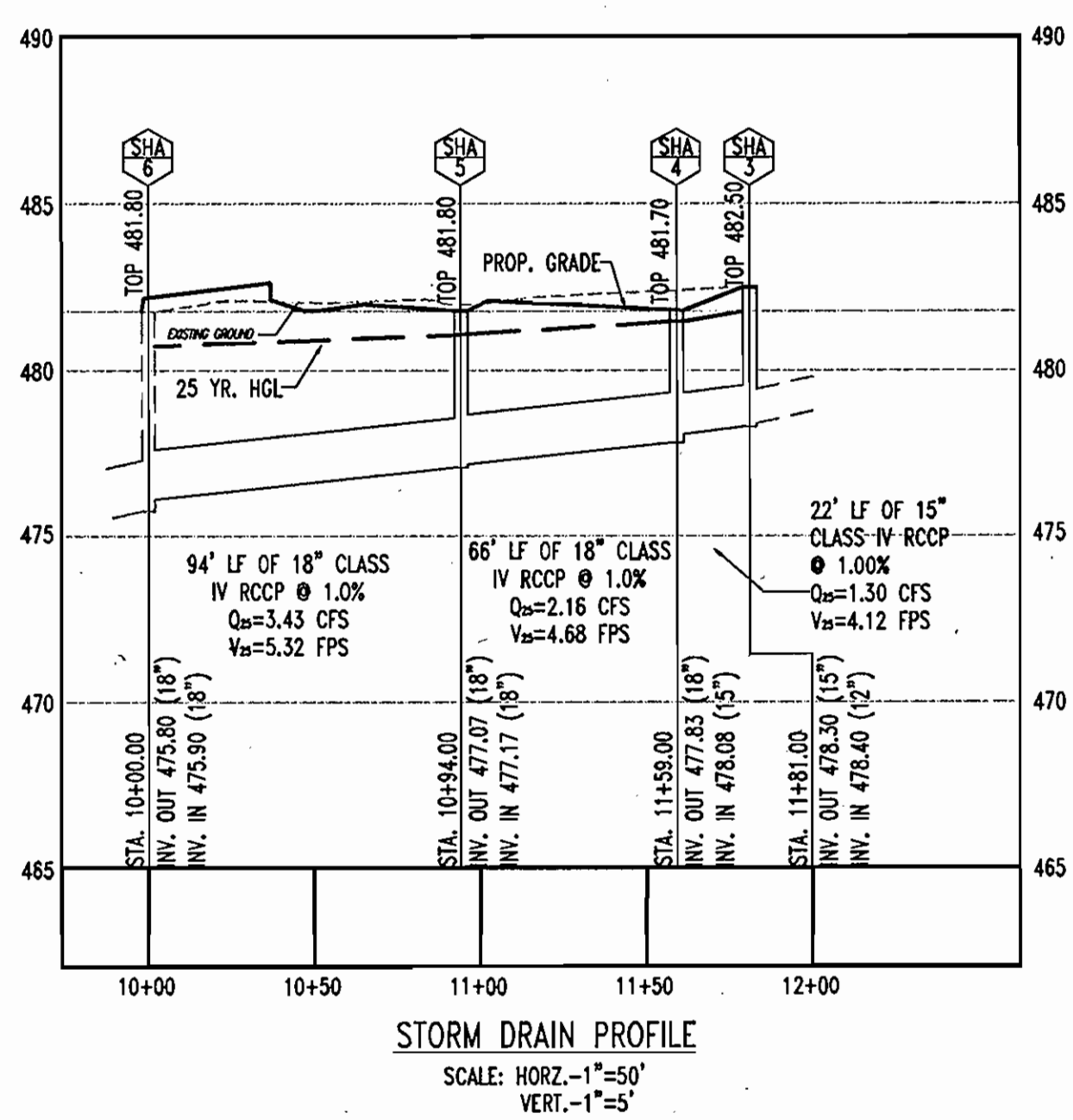
LOCATION MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20694276
SCALE: 1"=200'



CURB STAKE OUT CHART

STATION	OFFSET	TC ELEVATION
2+35	LEFT 24.24'	483.57
2+50	LEFT 35.50'	483.62
2+75	LEFT 34.77'	482.93
3+00	LEFT 34.04'	482.92
3+25	LEFT 34.84'	482.78
3+50	LEFT 35.63'	482.58
3+62	LEFT 35.83'	482.47
4+15	LEFT 37.16'	482.79

*FOR CURB STAKE OUT OF TEN OAKS ROAD SEE SHEET 4



SHA STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE #	DESCRIPTION	INVERT IN	INVERT OUT	TOP OF CURB/RIM
SHA 3	PROPOSED SHA STANDARD PRECAST MANHOLE	478.40	478.30	481.70
SHA 4	PROPOSED SHA STANDARD 10" COS INLET	478.08	477.83	481.80
SHA 5	PROPOSED SHA STANDARD 10" COS INLET	477.17	477.07	481.80

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/20/06
CHIEF-DEVELOPMENT ENGINEERING DIVISION
[Signature] 11/2/06
CHIEF-DIVISION OF LAND DEVELOPMENT
[Signature] 10/30/06
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/30/06
HOWARD COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS	DEVELOPER	
PARCEL A ANTOY, LLC 12400 ROUTE 108 CLARKSVILLE, MARYLAND 21029	JACOB M. ANTWERPEN 6631 BALTIMORE NATIONAL PIKE BALTIMORE, MARYLAND 21228 ATTN: JACOB ANTWERPEN	
PARCEL B-1 ANTSTORE, LLC 6389 TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		
PARCEL C-1 ANTWERPEN, JACOB M 6381 NW TEN OAKS ROAD CLARKSVILLE, MARYLAND 21029		

PROJECT: ANTWERPEN AUTOMOTIVE
12400 CLARKSVILLE PIKE, CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA: TAX MAP 34 GRID 12 ZONED B-2
PARCELS A, B-1 and C-1
Plat No. 62, 18588-89
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: SHA ROAD IMPROVEMENT PLAN

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLENHAVEN COURT, SUITE 300, TOWSON, MD 21286
(410) 817-0000 FAX (410) 817-0001
www.bohlereng.com

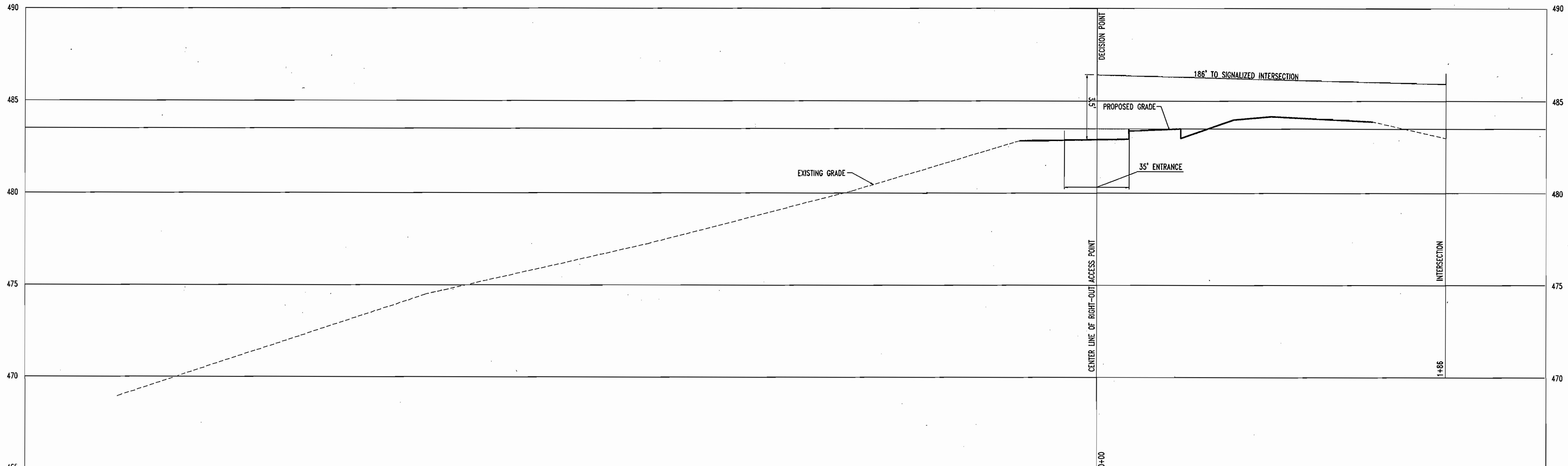
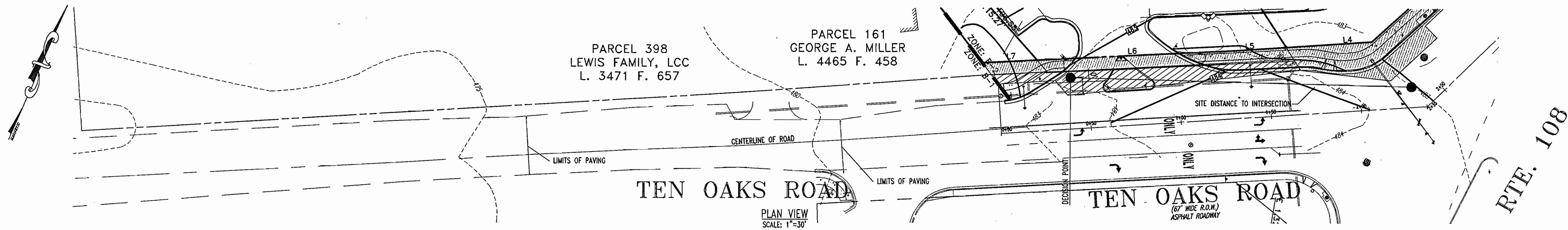
DESIGNED BY: M.J.G.
DRAWN BY: J.J.L.
PROJECT NO.: MD032003.1
DATE: 07/06/2006
SCALE: 1"=30'
DRAWING NO. 20 OF 22

BEFORE YOU DIG CALL 1-800-391-7777
PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

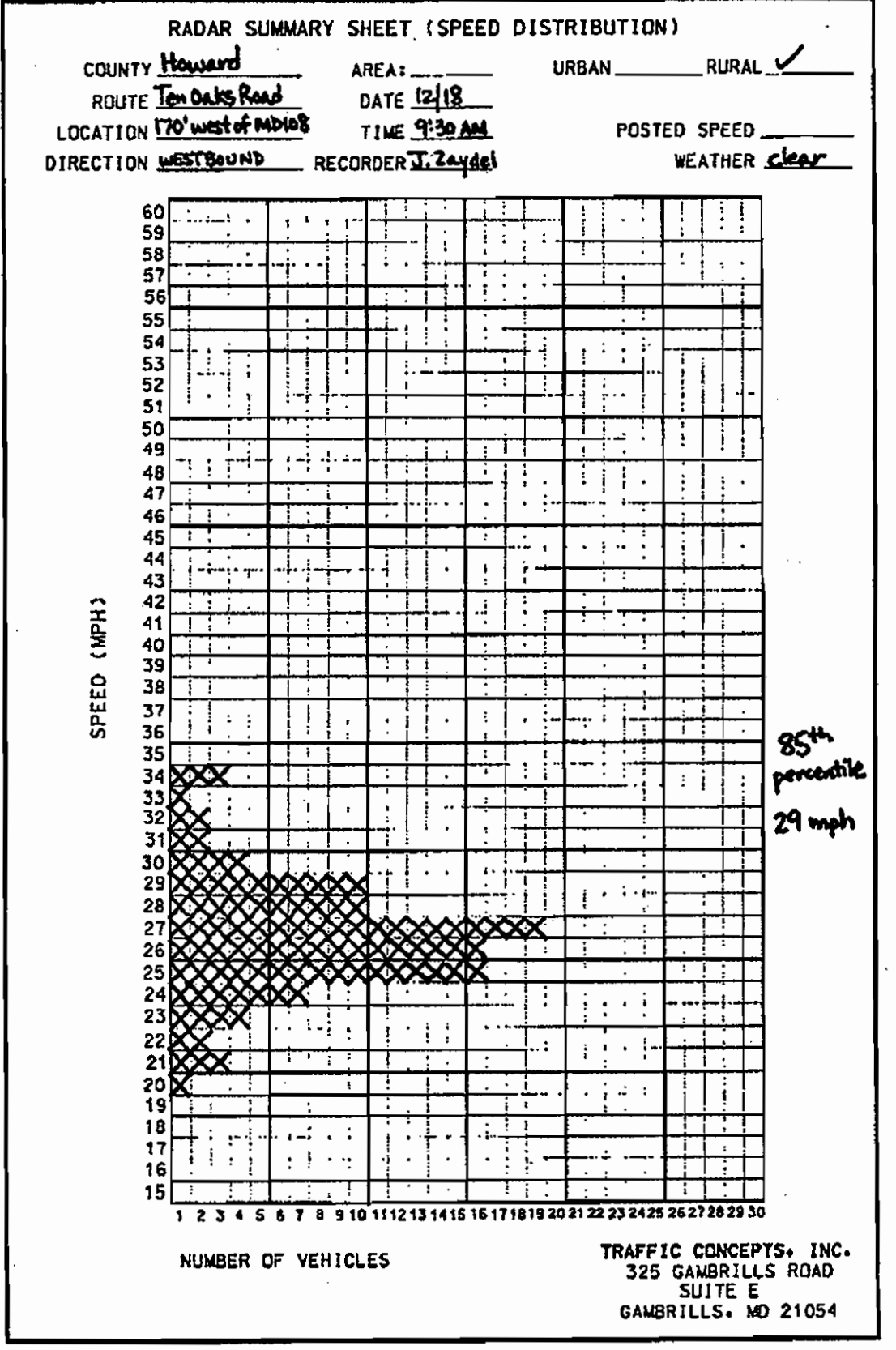
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPROPRIATE.

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

MISS UTILITY
BEFORE YOU DIG CALL 1-800-391-7777
PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE



SITE DISTANCE PROFILE
SCALE: HORIZ. 1"=30'
VERT. 1"=3'



OPERATING SPEED: 35 MPH (FIELD DATA INDICATED 29 MPH AND 35 MPH, 35 MPH USED FOR COMPUTATIONS)
 85TH SPEED ON EXISTING ROAD OF WESTBOUND TRAFFIC = 29 MPH
 DESIGN VEHICLE: WB-50
 *BASED ON FIGURE 2.17 OF THE HOWARD COUNTY DESIGN MANUAL VOL. III (P 2-53)

CROSS	DL	DR
*LEFT TURN (NOT PERMITTED)	N/A	N/A
*RIGHT TURN	560'	N/A

ROAD GRADE OF 2.20%	ADJUSTED VALUES:
LEFT TURN (NOT PERMITTED)	N/A
RIGHT TURN	1.2(560) = 672'

*SIGHT DISTANCE LEFT INCLUDES THE EXISTING INTERSECTION OF RT. 108 & TEN OAKS ROAD WITH AN EXISTING TRAFFIC SIGNAL AND THEREFORE A REDUCED SIGHT DISTANCE IS PERMITTED.

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 BOHLER ENGINEERING, P.C. OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Don Williams 10/25/06
 CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE
David Hendricks 11/6/06
 CHIEF-DIVISION OF LAND DEVELOPMENT DATE
James K. Meyer 1/24/06
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
Robert J. White 10/30/06
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS		DEVELOPER
PARCEL A		ANTWERPEN AUTOMOTIVE
ANTOY, LLC		6631 BALTIMORE NATIONAL PIKE
12400 ROUTE 108		BALTIMORE, MARYLAND 21228
CLARKSVILLE, MARYLAND 21029		ATTN: JACOB ANTWERPEN
PARCEL B-1		
ANTISTORE, LLC		
6389 TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		
PARCEL C-1		
ANTWERPEN JACOB M		
6381 NW TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		

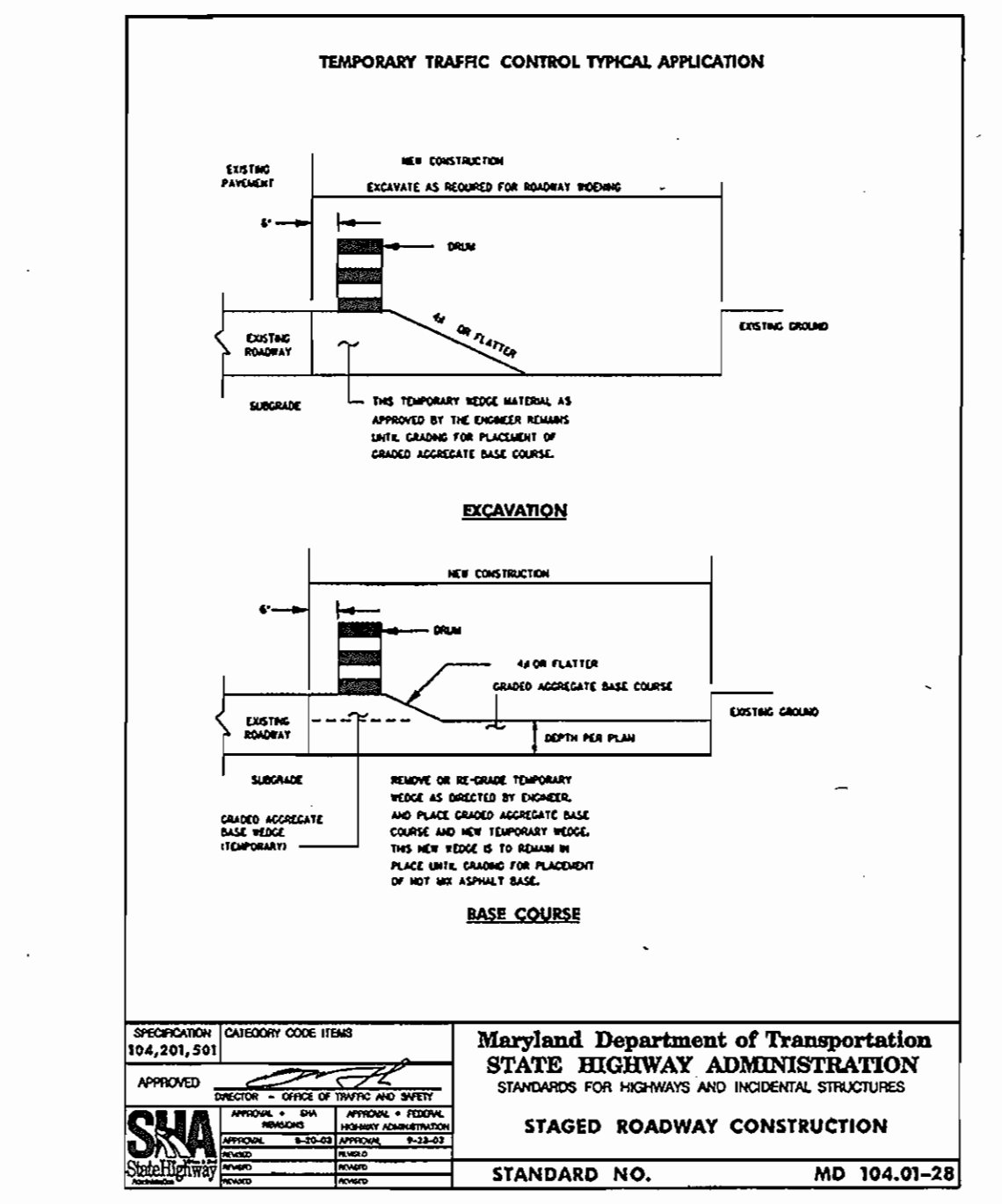
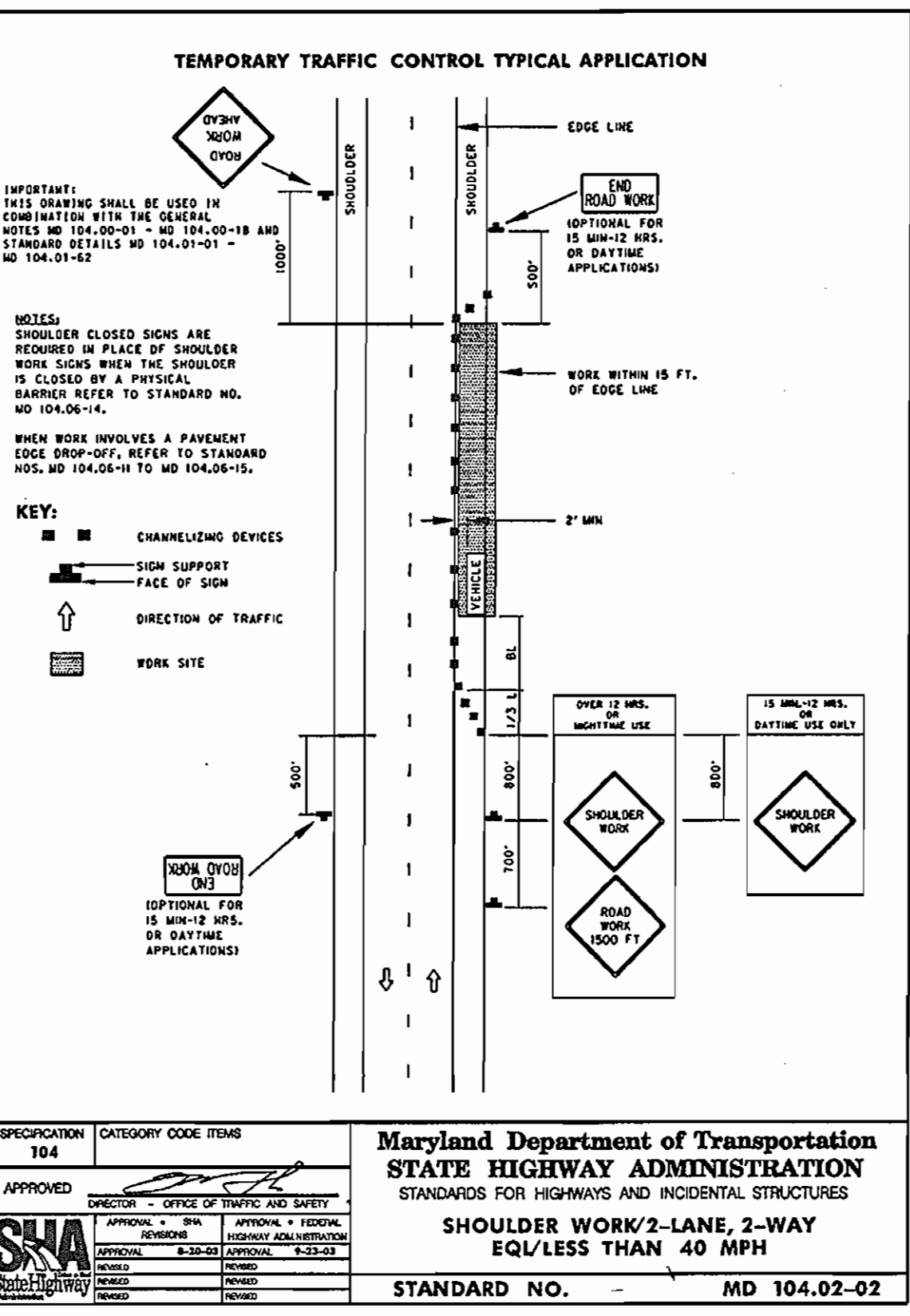
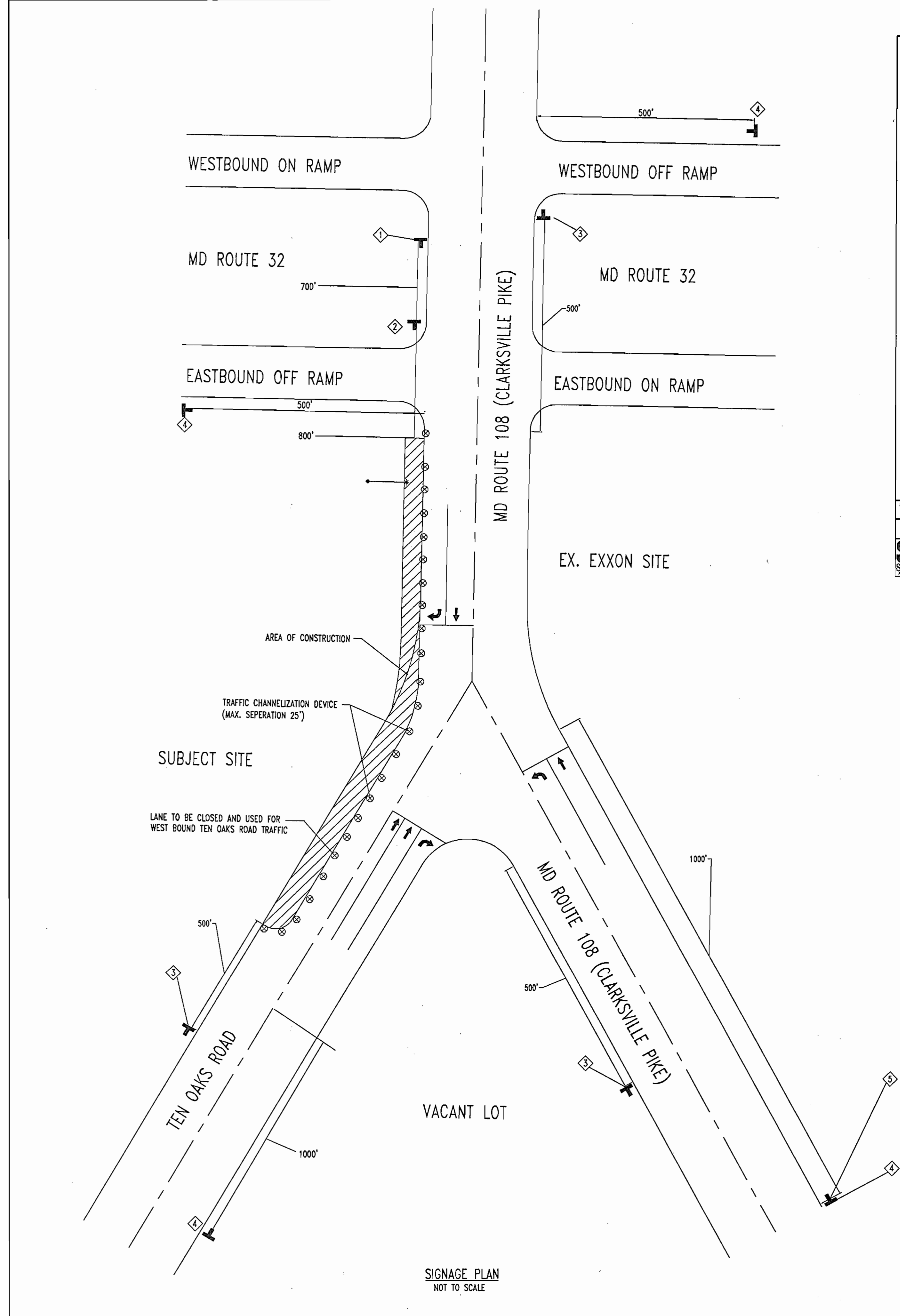
PROJECT: ANTWERPEN AUTOMOTIVE
 12400 CLARKSVILLE PIKE,
 CLARKSVILLE, HOWARD COUNTY, MARYLAND
 AREA TAX MAP 34 GRID 12 ZONED B-2
 PARCELS A, B-1 and C-1
 Plat No. 18-88-89
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: SIGHT DISTANCE ANALYSIS PLAN

BOHLER ENGINEERING, P.C.
 *PROFESSIONAL ENGINEERING SURVEYOR
 #B10 GLENAGLES COURT, SUITE 300, TOWSON, MD 21286*
 #410 821-7900 FAX (410) 821-7507 | b@bohlere.com

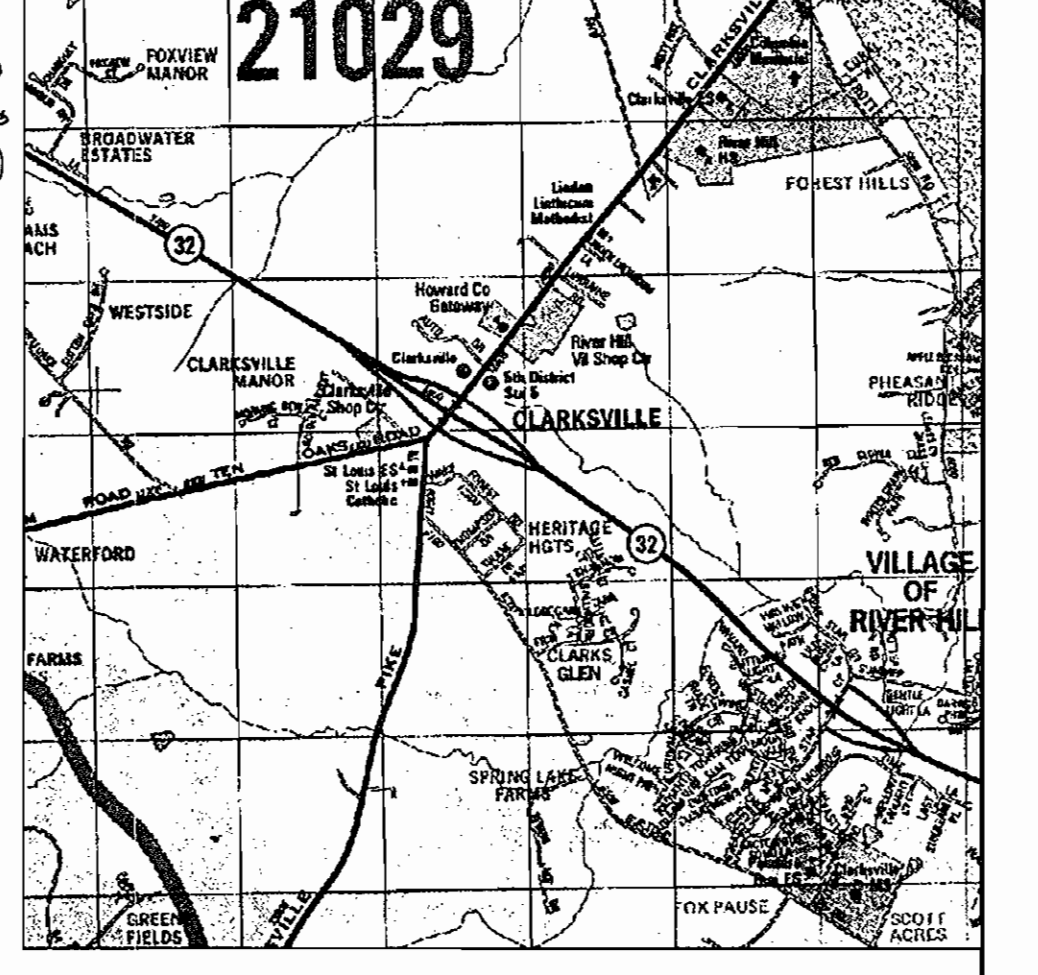
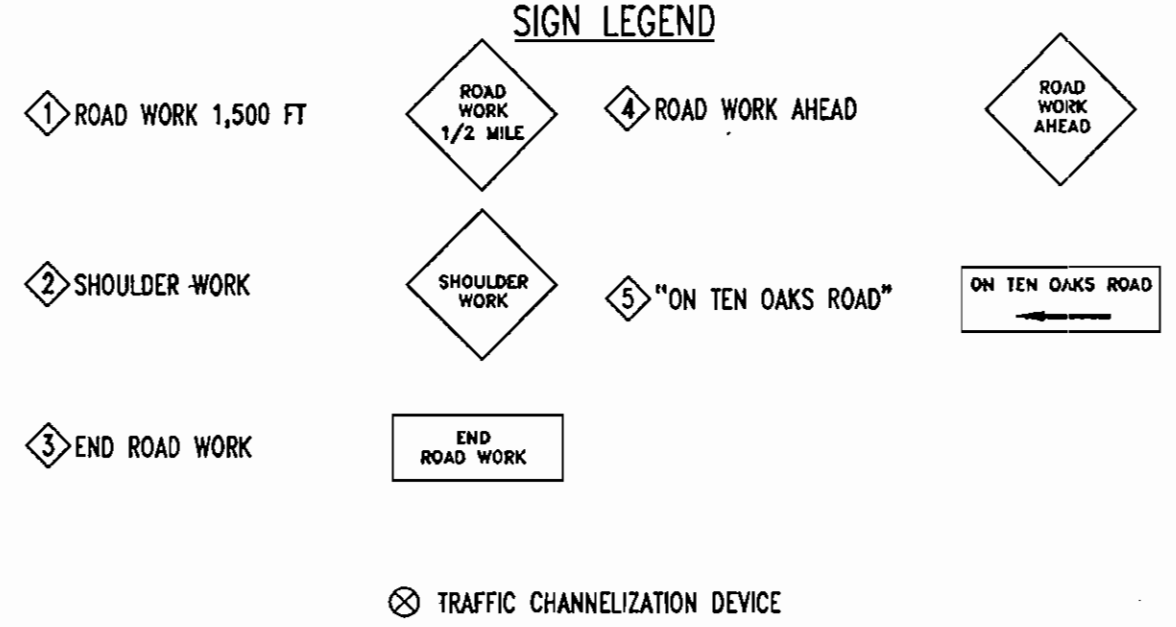
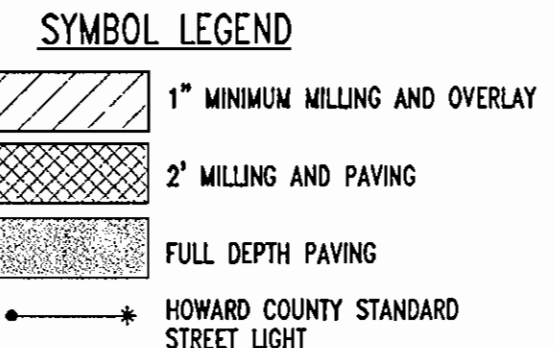
MISS UTILITY
 BEFORE YOU DIG CALL 800-955-7177
 PROTECT YOURSELF, CALL TWO WEEKS BEFORE YOU DIG
 THIS DRAWING DOES NOT INCLUDE NECESSARY COMPENSATION FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPLICABLE.
 THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

DESIGNED BY: J.J.L.
 DRAWN BY: R.L.B.
 PROJECT NO.: M0032003.1
 DATE: 6/30/05
 SCALE: N.T.S.
 DRAWING NO. 21 OF 22



MAINTENANCE OF TRAFFIC GENERAL NOTES

1. HOWARD COUNTY SHALL BE NOTIFIED AT LEAST 48 HRS. PRIOR TO BEGINNING ANY WORK IN ORDER TO SCHEDULE FIELD INSPECTIONS OF THE TRAFFIC CONTROL DEVICES.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
3. CONTRACTOR TO USE M.U.T.C.D. STANDARDS FOR ALL TRAFFIC MAINTENANCE SIGNAGE.
4. TRAVEL LANES SHALL MAINTAIN A 10' MINIMUM WIDTH. FLAG MEN AND/OR THE APPROPRIATE SIGNAGE SHALL BE PROVIDED.
5. BARRIERS SHALL BE USED TO MARK CHANNELIZED DEVICES ALONG THE CONSTRUCTION AREA.
6. IF A DROP MEASURES GREATER THAN 4", A BARRIER OR 2:1 SLOPE OF COMPACTED CR6 GRAVEL SHALL BE REQUIRED.
7. ALL OPEN TRENCHES SHALL BE CLOSED AT THE END OF EACH WORKING DAY.
8. ALL SIGNS NOT IN USE, OR WHICH DO NOT APPLY SHALL BE COVERED.
9. ALL EQUIPMENT AND PERSONNEL SHALL MOVE ACCORDINGLY AS CONSTRUCTION PROGRESSES.
10. NO SIGNS SHALL OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
11. CONSTRUCTION AND WORKMEN'S VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC.
12. SIGNAGE PLAN SHOWN ON SHEET 22 SHALL BE USED DURING LANE WIDENING CONSTRUCTION. DURING THE REPAVING OF TEN OAKS ROAD, THE SIGNAGE PLAN FOR SHOULDER WORK (MD 104.02-02) SHALL BE USED.



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

CURB STAKE OUT CHART		
STA.	DISTANCE	ELEVATION
0+00	15.00' LEFT TO BEGINNING OF CONSTRUCTION AND CURB & GUTTER	G 482.24
0+12.89	18.80' LEFT TO PC	TC 483.10
0+32.13	29.90' LEFT TO PC	TC 483.53
0+53.14	19.70' LEFT TO PT	TC 483.70
0+56.29	16.70' LEFT TO PC	TC 483.66
0+59.46	29.80' LEFT TO PC	TC 483.85
0+72.43	29.60' LEFT TO PC	TC 484.25
0+78.54	17.80' LEFT TO PC	TC 483.98
0+81.40	20.80' LEFT TO PC	TC 484.10
1+09.75	29.50' LEFT TO PC	TC 484.53
1+29.30	25.50' LEFT TO PC	TC 484.64
1+64.68	25.40' LEFT TO PC	TC 484.33
1+74.75	24.10' LEFT TO PC	TC 484.14
1+84.46	20.30' LEFT TO PC	TC 484.05
1+94.53	22.30' LEFT TO PC	TC 483.92
2+09.67	29.10' LEFT TO PT	TC 483.61

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 BOHLER ENGINEERING, P.C. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. 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.

NOTE:
CONTACT HOWARD COUNTY TRAFFIC ENGINEERING
410-313-5752 BEFORE ANY SIGNS OR PAVEMENT MARKINGS ARE INSTALLED.

NOTE:
ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.



BEFORE YOU DIG CALL
1-800-251-7777
PROTECT YOURSELF. GIVE TWO WORKING DAYS NOTICE.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/20/06 DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION
[Signature] 11/20/06 DATE
CHIEF-DIVISION OF LAND DEVELOPMENT
[Signature] 11/20/06 DATE
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
[Signature] 10/20/06 DATE
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
OWNERS		
PARCEL A		DEVELOPER
ANTOY, LLC		JACOB M. ANTWERPEN
12400 ROUTE 108		6631 BALTIMORE NATIONAL PIKE
CLARKSVILLE, MARYLAND 21029		BALTIMORE, MARYLAND 21228
		ATTN: JACOB ANTWERPEN
PARCEL B-1		
ANTSTORE, LLC		
6369 TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		
PARCEL C-1		
ANTWERPEN JACOB M		
6381 NW TEN OAKS ROAD		
CLARKSVILLE, MARYLAND 21029		

PROJECT ANTWERPEN AUTOMOTIVE
12400 CLARKSVILLE PIKE,
CLARKSVILLE, HOWARD COUNTY, MARYLAND

AREA TAX MAP 34 GRID 12 ZONED B-2
PARCELS A, B-1 and C-1
Plat No. 1888-B9
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE HOWARD COUNTY MAINTENANCE OF TRAFFIC PLAN

BOHLER ENGINEERING, P.C.
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