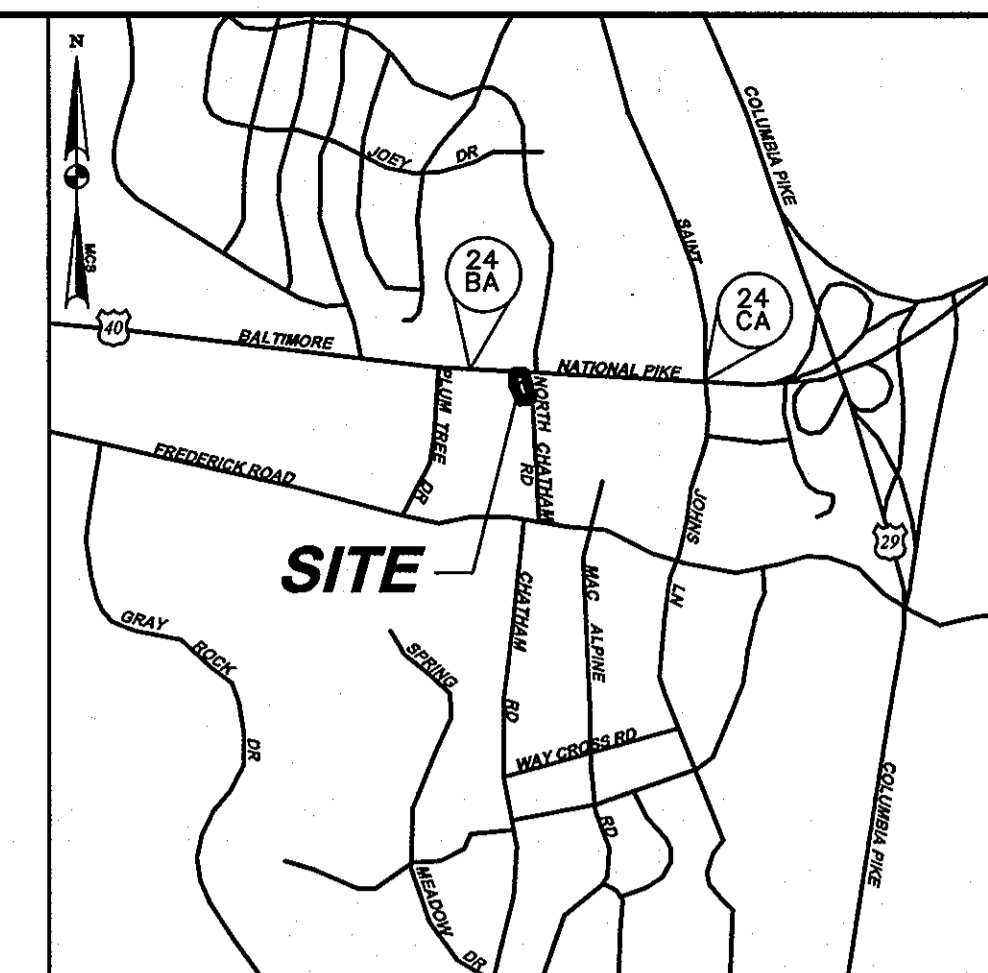


GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE OR AS SPECIFIED.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE BASED SOLELY ON AVAILABLE RECORDS. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES WHICH MAY BE IMPACTED BY THE WORK. MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- THE CONTRACTOR SHALL NOTIFY "MESS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE, AND SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PUBLIC RIGHT-OF-WAY, EX. PAVING, EX. CURB & GUTTER, EX. UTILITIES, ETC. SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- EXISTING PUBLIC WATER CONTRACT IS #11W AND PUBLIC SEWER CONTRACT IS #130-3.
- THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING ANALYSIS FOR THIS PROJECT WAS MADE ON FEBRUARY 9, 2010 BY GILES ENGINEERING ASSOCIATES, INC.
- ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED AND VERIFIED IN ACCORDANCE WITH ASHTO T-180, OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- OPERATING EXISTING VALVES, SWITCHES, SERVICES OR START UP OF NEW SERVICES SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE. THE BUILDINGS WILL BE PROVIDED WITH A SPRINKLER SYSTEM.
- TRENCH COMPACTION FOR STORM DRAINS WITHIN THE ROAD OR STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL IV, STD. NO. C-2.01.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WATER, SEWER, AND DRAIN HOUSE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN 2.0 FEET MINIMUM PROTECTIVE COVER OVER ALL UTILITIES DURING CONSTRUCTION.
- THERE ARE NO KNOWN CEMETERIES OR BURIAL GROUNDS ON THIS SITE. HOWEVER, UPON DISCOVERY OF ANY EVIDENCE OF BURIAL OR GRAVES, THE DEVELOPER WILL BE SUBJECT TO SECTION 16.1305 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOP REGULATIONS.
- ALL SLOPES 2:1 MIN.
- PAVING MARKINGS TO BE "TRAFFIC WHITE".
- CONTRACTOR SHALL MAINTAIN A MINIMUM 2 FOOT BENCH BEHIND CURB AND GUTTER IN FILL AREAS.
- ALL FIRE LINE PIPING SHALL MEET THE REQUIREMENTS OF THE NFPA PIPE SHALL BE UL LISTED, FM APPROVED AND MEET THE AWWA STANDARDS FOR FIRE PROTECTION USE. FITTINGS SHALL HAVE PRESSURE CLASS RATINGS COMPATIBLE WITH THE PIPE USED.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3.5 FEET OF COVER OVER THE PRIVATE WATER MAIN SHOWN HEREON UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE ALL CRUMPS OR VERTICAL BENDS NECESSARY TO MAINTAIN CLEARANCES WITH OTHER UTILITIES.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING OR STRUCTURES ARE TO BE REMOVED PRIOR TO PLACING A BID ON THOSE ITEMS. THE CONTRACTOR SHALL CLEAR THE CONSTRUCTION AREA OF ALL EXISTING TREES, PAVING, STRUCTURES, ETC., UNLESS NOTED ON PLAN.
- THE SUBJECT PROPERTY IS ZONED B-2-TNC PER THE 2-2-04 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING AMENDMENTS EFFECTIVE 7/28/06.
- NO GRADING OR REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN ANY EXISTING WETLAND(S), STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING SHALL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$10,000.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY BOHLER ENGINEERING, INC. DATED OCTOBER 31, 2009.
- THE COURSES AND COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 24BA AND 24CA WERE USED FOR THIS PROJECT.
- ALL EXTERIOR LIGHTING SHALL COMPLY WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- LIGHT TRESPASS ONTO ADJACENT RESIDENTIAL PROPERTIES SHALL BE LIMITED TO 0.5 FOOT CANDLES PER SECTION 134D OF THE HOWARD COUNTY ZONING REGULATIONS.
- A TRAFFIC STUDY IS NOT REQUIRED AS THE NUMBER OF SEATS IS BEING REDUCED FROM 102 TO 80. A JUSTIFICATION LETTER WAS SUBMITTED BY STREET TRAFFIC STUDIES, LTD.
- NOISE STUDY IS NOT REQUIRED FOR THIS INDUSTRIAL ZONED PROPERTY.
- CONTRACTOR TO PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
- CONTRACTOR TO VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL WATER, SEWER AND STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE MECHANICAL CONTRACTOR BEFORE BEGINNING CONSTRUCTION OF SERVICE CONNECTIONS TO SERVE THE BUILDING.
- CONCRETE WHEEL STOPS SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND SHALL BE PRECAST, STANDARD CONCRETE, ANCHORED TO THE PAVEMENT WITH 2 STEEL RODS PER EACH WHEEL STOP DRIVEN A MINIMUM OF 8" IN BITUMINOUS CONCRETE PAVEMENT OR TWO DOWELS PER EACH WHEEL STOP GROUTED A MINIMUM OF 4" INTO CEMENT PAVEMENT.
- THE SITE FALLS UNDER REDEVELOPMENT. WATER QUALITY WILL BE PROVIDED VIA A STORMCEPTOR. THE STORMCEPTOR WILL BE OWNED AND MAINTAINED BY THE OWNER.
- HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH "MD BUILDING CODE FOR THE HANDICAPPED" SECTION 5.01-7.05.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL SIDEWALKS SHALL BE CROSS SLOPED AT 1/4" INCH PER FOOT.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
- ALL ON SITE DRIVEWAYS AND PARKING AREAS TO BE PRIVATELY MAINTAINED.
- ALL PROPOSED HC RAMPS SHALL BE IN ACCORDANCE WITH CURRENT ADA STANDARDS.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- ELECTRIC, GAS, CABLE, TELEPHONE AND LIGHTING LINES DESIGNED BY OTHERS.
- THE PROJECT WILL BE REQUIRED TO COMPLY WITH HOWARD COUNTY FOREST CONSERVATION ACT. COMPLIANCE WITH THE FCA REQUIRES MEETING THE AFFORESTATION OBLIGATION SINCE NO FOREST EXISTS ON SITE. THE FOREST CONSERVATION WORKSHEET REVEALS THAT THE AFFORESTATION REQUIREMENT FOR THE NET TRACT AREA OF THE PROJECT WILL BE 0.15 AC. THE FEE-IN-LEU COST FOR MEETING THE AFFORESTATION REQUIREMENTS WILL BE \$4,900.00 FOR THE NET TRACT AREA OF THE SITE.
- THERE ARE NO SLOPES 15-24.9%, SLOPES 25% OR GREATER, WETLANDS, WETLAND BUFFERS, STREAMS, STREAM BUFFERS AND 100-YR FLOODPLAIN WITHIN THE NET TRACT AREA.
- THIS SDP IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE AMENDED ZONING REGULATIONS PER COUNCIL NO. 75-2003 AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 07/28/06. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT APPLICATIONS.
- 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.
- PROPOSED BUILDING WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.

ENVIRONMENTAL CONCEPT PLAN for McDONALD'S RESTAURANT 9309 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND

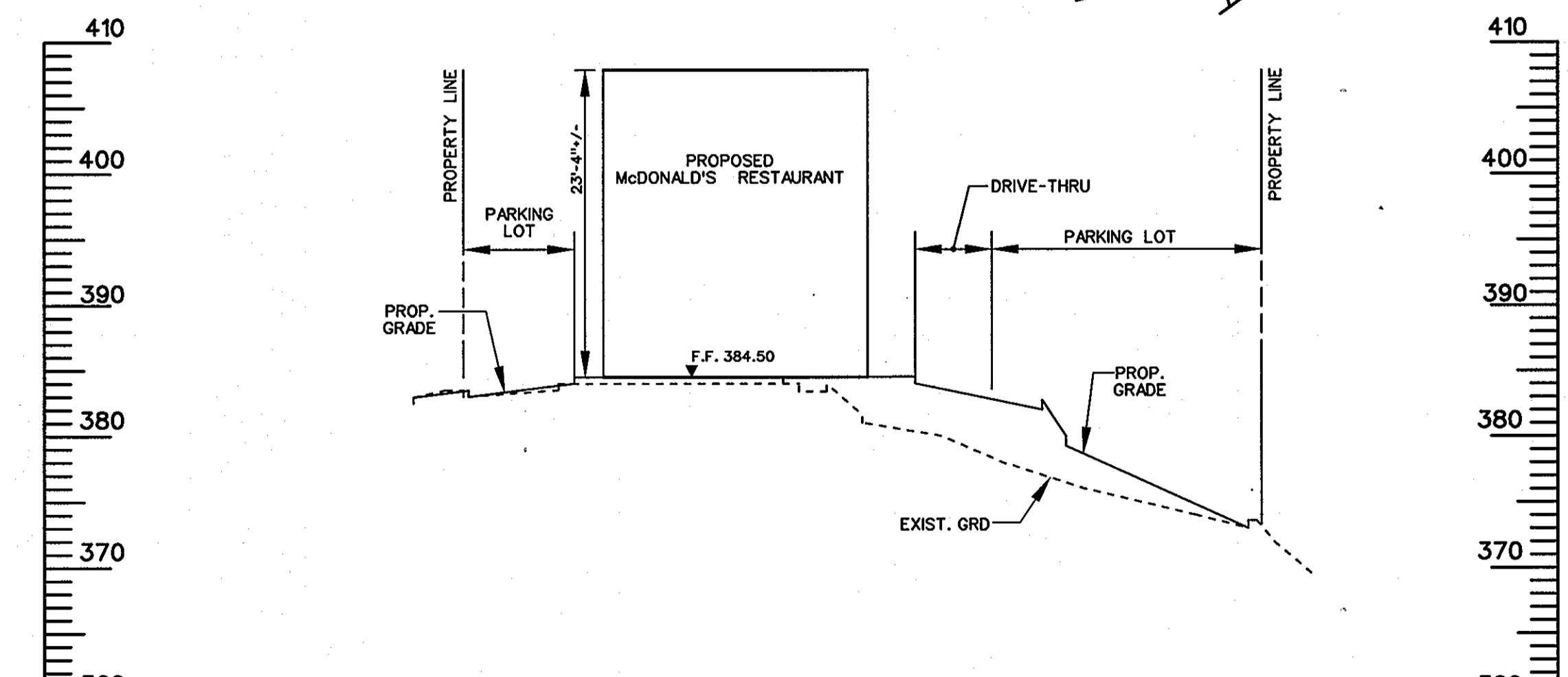
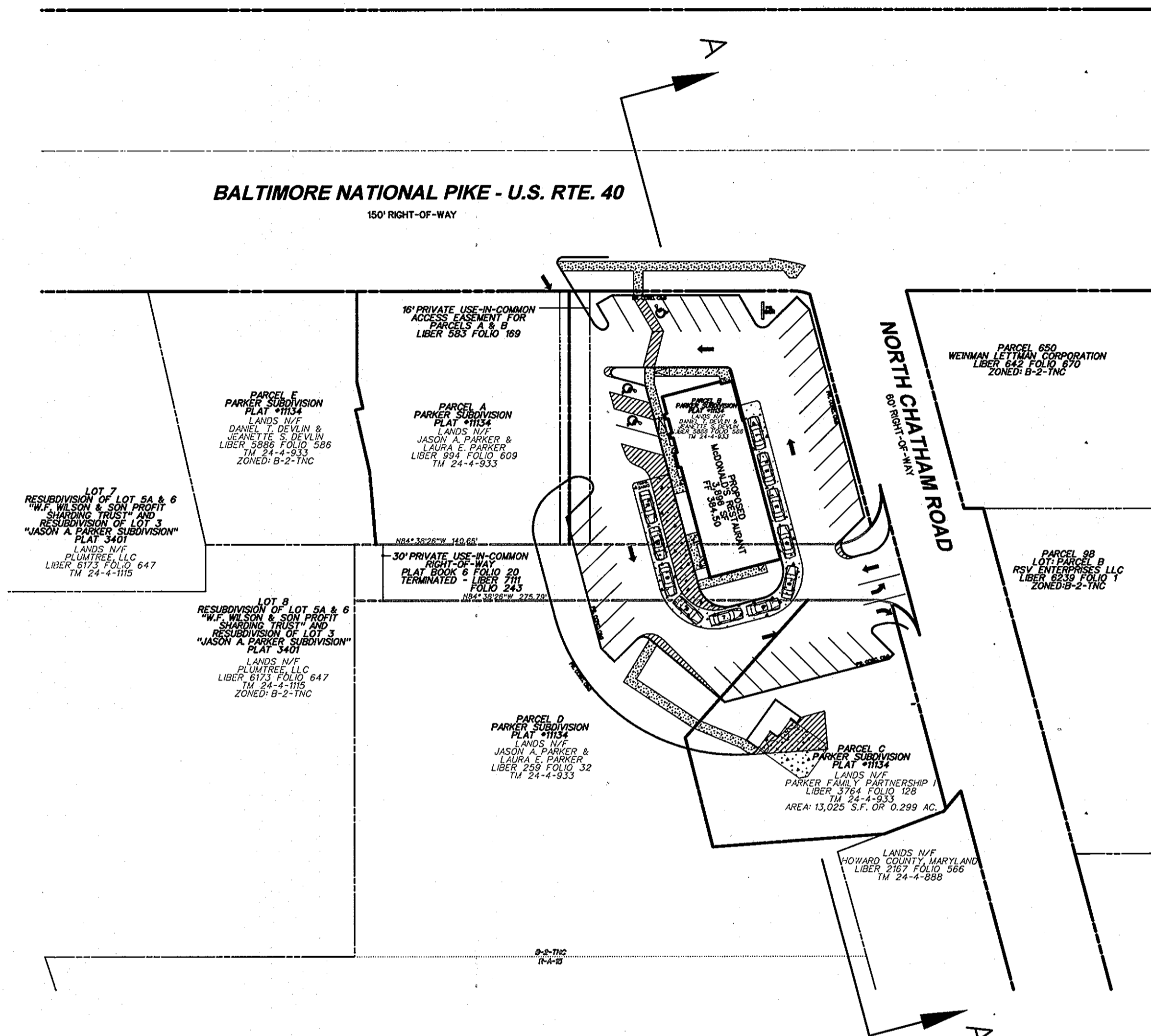


VICINITY MAP

SCALE: 1"=2000'
ADC MAP NUMBER: 4815, GRID: G6
ADC MAP COORDINATES: 76°50'00" / 39°17'00"

BENCHMARKS

COORDINATES IN MARYLAND MADB3 (91) (HORIZONTAL) AND NAVD83 (VERTICAL) DATUMS
24BA N 586,783.2894 E 1,359,211.6335 ELEV. 385.594 FT.
24CA N 586,506.2243 E 1,361,634.2707 ELEV. 398.251 FT.



SECTION A-A THROUGH SITE

SCALE: H: 1" = 50'
V: 1" = 10'

SITE DATA

- GENERAL SITE DATA:
 - TOTAL SITE AREA: 4.4313 Ac
PARCEL A: 0.2391 Ac
PARCEL B: 0.4477 Ac
PARCEL C: 0.2990 Ac
PARCEL D: 3.1579 Ac
USE-IN-COMMON R/W: 0.2076 Ac
 - PLAT REFERENCE: 11034
 - DEED REFERENCES: 11985/14, 11398/206
 - TAX ACCOUNT NUMBERS:
PARCEL A: 02-235854
PARCEL B: 02-229102
PARCEL C: 02-370805
PARCEL D: 02-370913
USE-IN-COMMON R/W: 02-235846
 - PRESENT ZONING: B-2-TNC
 - APPLICABLE DPZ FILE REFERENCES:
F-93-72, F-182, SDP-89-80, SDP-10-064
 - EXISTING USE: RESTAURANT (4,503 SF)
 - PROPOSED USE: RESTAURANT (3,896 SF)
 - EXISTING WATER PUBLIC (CONTRACT #11W)
 - EXISTING SEWER PUBLIC (CONTRACT #130-3)
 - MAXIMUM BUILDING HEIGHT:
ALLOWED: 40'
PROPOSED: 23'-4"
- PARKING SPACE DATA:
 - PARKING REQUIRED:
FAST FOOD RESTAURANTS - 3,896 SF @ 14 PS/1,000 SF - 55 PS
 - PARKING PROVIDED: 57
TOTAL INCLUDED:
55 STANDARD SPACES @ 9' x 18'
2 VAN ACCESSIBLE HANDICAP SPACES @ 24' x 18' TWO SIDE BY SIDE

SHEET INDEX	
NO.	SHEET TITLE
1	COVER SHEET
2	EROSION AND SEDIMENT CONTROL PLAN
3	EROSION AND SEDIMENT CONTROL DETAILS
4	EROSION AND SEDIMENT CONTROL NOTES
5	STORMWATER MANAGEMENT PLAN - REDEVELOPMENT (EXISTING CONDITION)
6	STORMWATER MANAGEMENT PLAN - REDEVELOPMENT (PROPOSED CONDITION)
7	STORMWATER MANAGEMENT PLAN - DETAILS AND SPECIFICATIONS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
Chief, Development Engineering Division Hsc
Chief, Division of Land Development
Date: 8/11/10
Date: 8/11/10

ADDRESS CHART	
LOT / PARCEL NO.	STREET ADDRESS
PARCEL A	9319 BALTIMORE NATIONAL PIKE
PARCEL B	9309 BALTIMORE NATIONAL PIKE
PARCEL C	NORTH CHATHAM ROAD
PARCEL D	3430 NORTH CHATHAM ROAD

PERMIT INFORMATION CHART				
SUBDIVISION NAME	SECTION / AREA	LOT / PARCEL NO.	A, B, C & D	
PARKER SUBDIVISION	N/A			
PLAT NO. or L/F	GRID NO.	ZONING	TAX MAP NO.	ELEC. DIST.
11134	4	B-2-TNC/R-A-15	24	2ND
			CENSUS TRACT	
			6023-06	

BLDG
Baltimore Land Design Group Inc.
Consulting Engineers
222 SCHILLING CIRCLE SUITE 105 • HUNT VALLEY, MARYLAND 21090
PHONE: 410.229.9851 • FAX: 410.229.9865 • BLDG@BLDGINC.COM

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21245, EXPIRATION DATE: JUNE 9, 2012.

OWNER McDONALD'S CORPORATION P.O. BOX 182571 COLUMBUS, OHIO 43218	DEVELOPER / APPLICANT McDONALD'S USA, LLC BALTIMORE - WASHINGTON REGION 6903 ROCKLEDGE DRIVE SUITE 1100 BETHESDA, MD 20817 (240) 497-3626
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DATE	ITEM	BY

COVER SHEET
McDONALD'S RESTAURANT
9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN

SHEET 1 OF 7
DATE: AUGUST, 2010
ECP-10-009

LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- EX. STORM DRAIN
- EX. SANITARY SEWER, MANHOLE & CLEANOUT
- EX. WATER MAIN, VALVE & FIRE HYDRANT
- EX. ELECTRIC LINE
- EX. TREE LINE
- EX. INDEX CONTOURS
- EX. INTERMEDIATE CONTOURS
- ZONING LINE
- PR. TREE LINE
- PR. STORM DRAIN
- PR. SANITARY SEWER & CLEANOUT
- PR. WATER MAIN, VALVE & FIRE HYDRANT
- PR. EASEMENT LINE
- PR. INDEX CONTOURS
- PR. INTERMEDIATE CONTOURS
- PR. CONC. CURB & GUTTER
- PR. PARKING COUNT
- EX. C&G TO BE REMOVED

SEDIMENT CONTROL LEGEND

- LIMIT OF DISTURBANCE LOD
- SILT FENCE SF
- SUPER SILT FENCE SSF
- STABILIZED CONSTRUCTION ENTRANCE SCE
- MOUNTAIN BERM TYPE A
- STANDARD INLET PROTECTION SIP
- AT GRADE INLET PROTECTION AGIP
- CURB INLET PROTECTION CIP

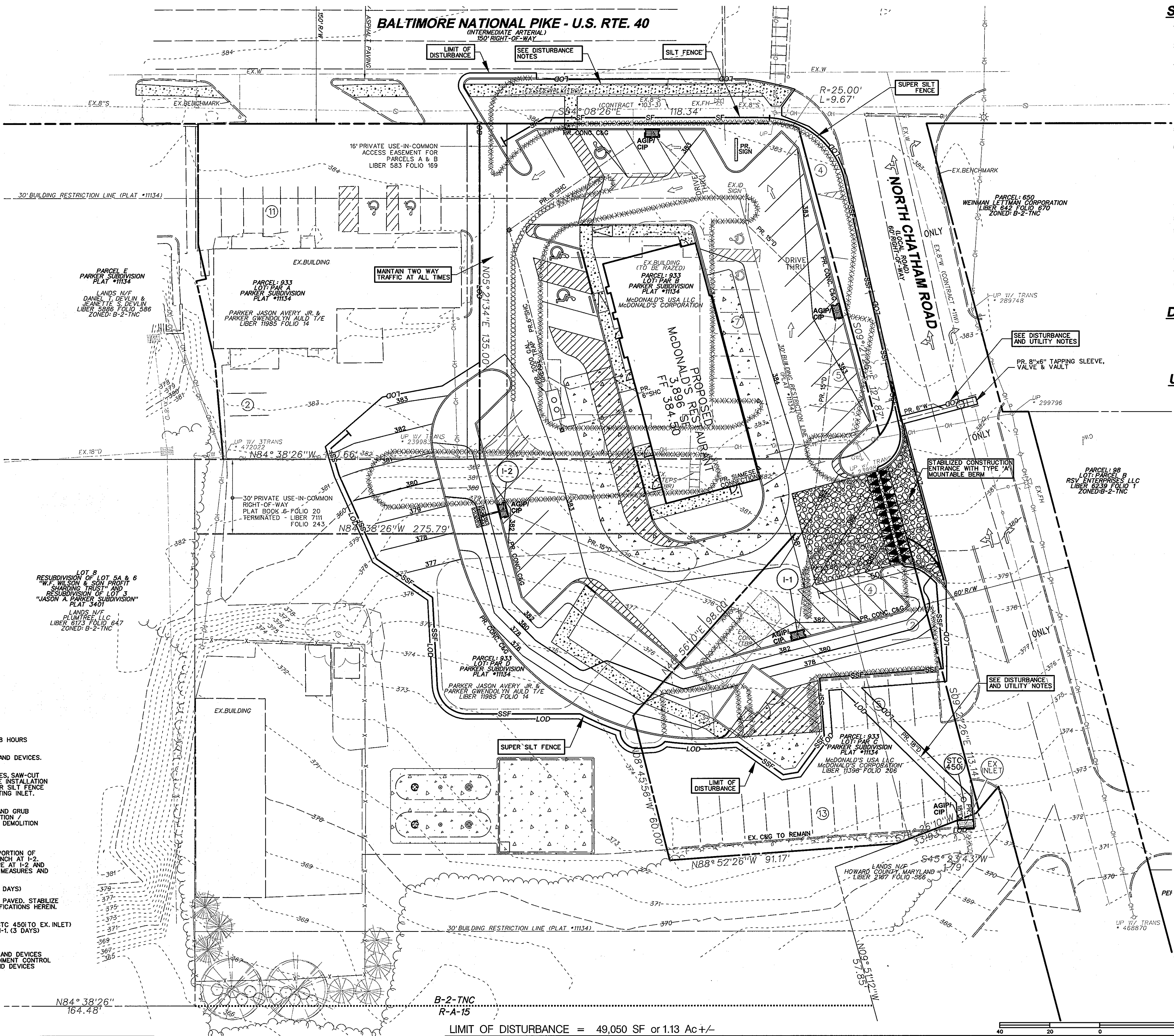
SOIL CLASSIFICATION	
UdB	Urban land - Udorthens complex C

NOTE: THE URBAN LAND SOIL TYPE ENCOMPASSES AN AREA MUCH LARGER THAN THE SUBJECT SITE. THEREFORE, SOIL LINES ARE NOT SHOWN AT THIS SCALE.

SEQUENCE OF OPERATION

1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES 48 HOURS PRIOR TO BEGINNING WORK. (1 DAY)
3. CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES. (2 DAYS)
4. INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES, SAW-CUT AND REMOVE EXISTING PAVING (STONE SUBBASE TO REMAIN) FOR THE INSTALLATION OF THE STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND SUPER SILT FENCE AS SHOWN ON THE PLAN. PROVIDE INLET PROTECTION FOR THE EXISTING INLET. (2 DAYS)
5. WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE. BEGIN BUILDING DEMOLITION PER EXISTING CONDITION DEMOLITION PLAN. A SEPARATE DEMOLITION PERMIT IS REQUIRED FOR DEMOLITION OF EXISTING BUILDING. (5 DAYS)
6. BEGIN BUILDING CONSTRUCTION. (15 DAYS)
7. BEGIN GRADING OPERATION AND UTILITY INSTALLATION EXCEPT FOR PORTION OF STORM DRAIN SYSTEM FROM STC 450 TO EX. INLET AND STONE TRENCH AT I-2. PROVIDE INLET PROTECTION FOR ALL NEW INLETS. PLUG 4" PVC PIPE AT I-2 AND 18" PIPE AT I-1. MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL MEASURES AND DEVICES AT ALL TIMES. (10 DAYS)
8. CONTINUE WITH GRADING OPERATION AND BUILDING CONSTRUCTION. (5 DAYS)
9. INSTALL STONE SUBBASE AND CURB & GUTTER WITHIN AREAS TO BE PAVED. STABILIZE AREAS OF SITE WITH GRASS IN ACCORDANCE TO THE SEEDING SPECIFICATIONS HEREIN. (3 DAYS)
10. AS WORK PROGRESSES INSTALL REMAINING STORM DRAIN SYSTEM (STC 450 TO EX. INLET) AND STONE TRENCH. UNPLUG 4" PVC PIPE AT I-2 AND 18" PIPE AT I-1. (3 DAYS)
11. FINE GRADE ALL AREAS. PROCEED WITH LANDSCAPING. (3 DAYS)
12. AFTER ALL AREAS DRAINING TO THE SEDIMENT CONTROL MEASURES AND DEVICES ARE VEGETATIVELY STABILIZED AND WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES AND DEVICES AND PROCEED WITH PAVING OPERATIONS. (2 DAYS)

BALTIMORE NATIONAL PIKE - U.S. RTE. 40



SEDIMENT CONTROL STANDARD GENERAL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
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 "1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL".
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 - B. FOURTEEN DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE "1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR PERMANENT SEEDING, SODS, TEMPORARY SEEDING, AND MULCHING (SECTION G). TEMPORARY STABILIZATION WITH MULCH ALONE CAN NOT BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. 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.
6. SITE ANALYSIS:

TOTAL AREA OR SITE	4.43	ACRES +/-
AREA TO BE ROOFED OR PAVED	1.13	ACRES +/-
AREA TO BE VEGETATIVELY STABILIZED	0.82	ACRES +/-
TOTAL CUT	0.31	ACRES +/-
TOTAL FILL	5.000	CUBIC YARDS +/-
OFF-SITE WASTE/BORROW AREA LOCATION WASTE	5.000	CUBIC YARDS +/-
	N/A	
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
9. ON ALL SITES WITH DISTURBED AREAS IN 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 THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
10. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE DAY, WHICHEVER IS SHORTER.
11. STOCKPILING WILL NOT BE PERMITTED ON SITE. ANY EXCESS MATERIAL WILL BE TAKEN TO A SITE WITH AN OPEN GRADING PERMIT.
12. EARTH QUANTITY VOLUMES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR IS ADVISED TO PERFORM HIS OWN ANALYSIS PRIOR TO PLACING A BID ON THIS ITEM.

DISTURBANCE NOTES

- FOR ANY DISTURBANCE OUTSIDE OF THE PERIMETER SEDIMENT CONTROLS, THE CONTRACTOR SHALL DISTURB ONLY THE AMOUNT OF AREA THAT CAN BE STABILIZED AT THE END OF (1) WORKING DAY. STABILIZATION SHALL BE AS FOLLOWS:
- A. FOR SIDEWALK AREAS AND AREAS TO BE PAVED THE APPLICATION OF STONE
 - B. FOR ALL OTHER AREAS THE APPLICATION OF PERMANENT SEED AND MULCH
 - C. SILT FENCE SHALL BE PROVIDED DOWNSLOPE OF AREAS THAT CANNOT BE STABILIZED AT THE END OF THE DAY.

UTILITY NOTES

1. CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW DOWNSLOPE OF THE TRENCH.
2. PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF TRENCH.
3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

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."

John Eldberger
John Eldberger Date

ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Iwona Rostek-Zaraska
Iwona Rostek-Zaraska, P.E. 21245 Date 8/1/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ...
Chief, Development Engineering Division Date 8/2/10
Chief, Division of Land Development Date 8/18/10

ADDRESS CHART

LOT / PARCEL NO.	STREET ADDRESS
PARCEL A	9319 BALTIMORE NATIONAL PIKE
PARCEL B	9309 BALTIMORE NATIONAL PIKE
PARCEL C	NORTH CHATHAM ROAD
PARCEL D	3430 NORTH CHATHAM ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION / AREA	LOT / PARCEL NO.
PARKER SUBDIVISION	N/A	A, B, C & D
PLAT NO. or L/F	GRID NO.	ZONING
11134	4	B-2-TNC/R-A-15
TAX MAP NO.	ELEC. DIST.	CENSUS TRACT
24	2ND	6023-06

EROSION AND SEDIMENT CONTROL PLAN

McDONALD'S RESTAURANT
9309 BALTIMORE NATIONAL PIKE

LIMIT OF DISTURBANCE = 49,050 SF or 1.13 Ac +/-

OWNER	DEVELOPER / APPLICANT
McDONALD'S CORPORATION	McDONALD'S USA, LLC
P.O. BOX 182571	BALTIMORE - WASHINGTON REGION
COLUMBUS, OHIO 43218	6903 ROCKLEDGE DRIVE
	SUITE 1100
	BETHESDA, MD 20817
	(240) 497-3626

DATE	ITEM	BY

HOWARD COUNTY, MARYLAND
SCALE: 1"=20'

SHEET 2 OF 7
DATE: AUGUST, 2010
ECP-10-009

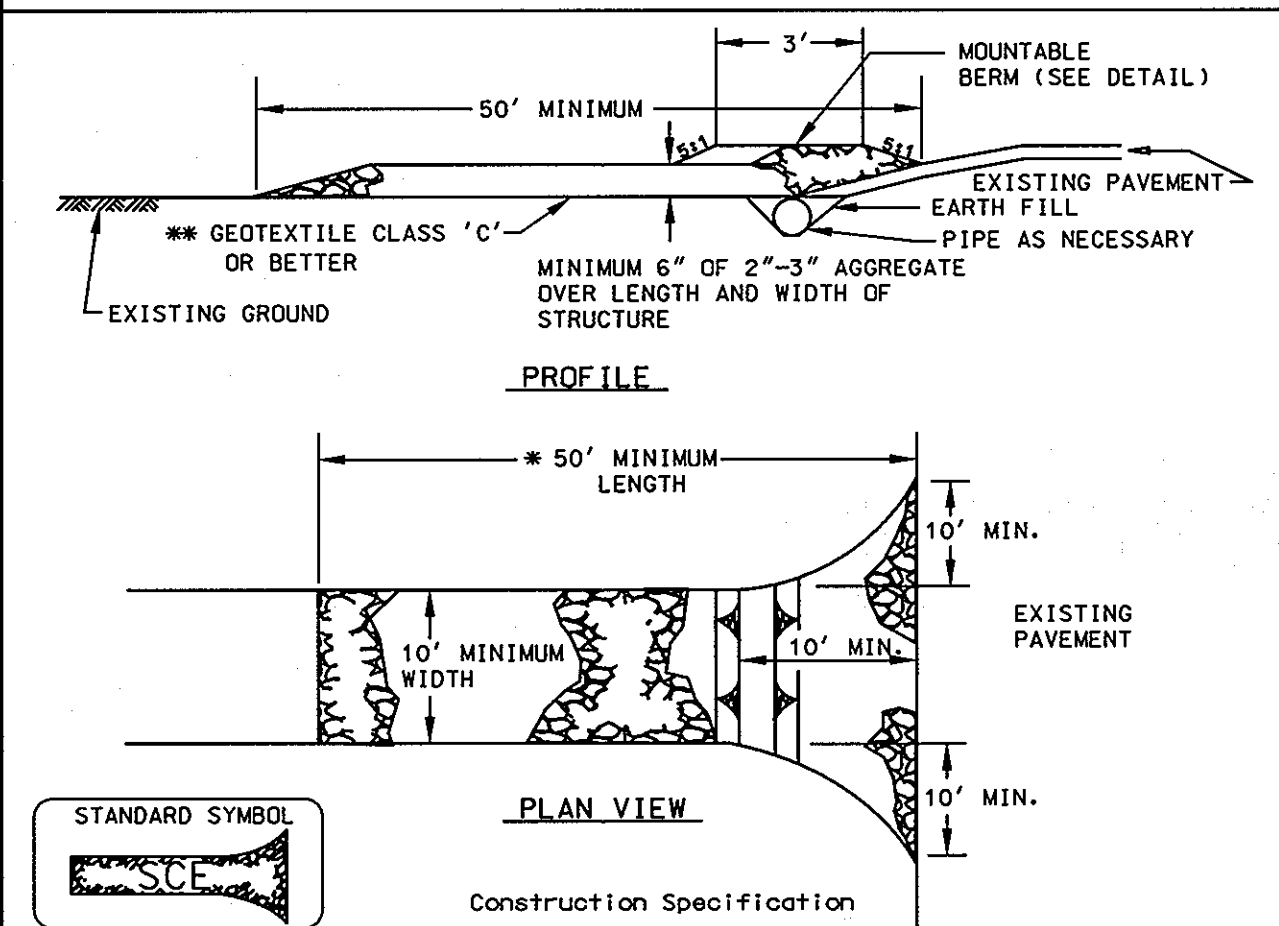
BLDG
Baltimore Land Design Group Inc.
Consulting Engineers
222 SCHILLING CIRCLE SUITE 105 • HUNT VALLEY, MARYLAND 21050
PHONE: 410.229.9851 • FAX: 410.229.9865 • BLDG@BLDGINC.COM



PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21245, EXPIRATION DATE: JUNE 9, 2012.

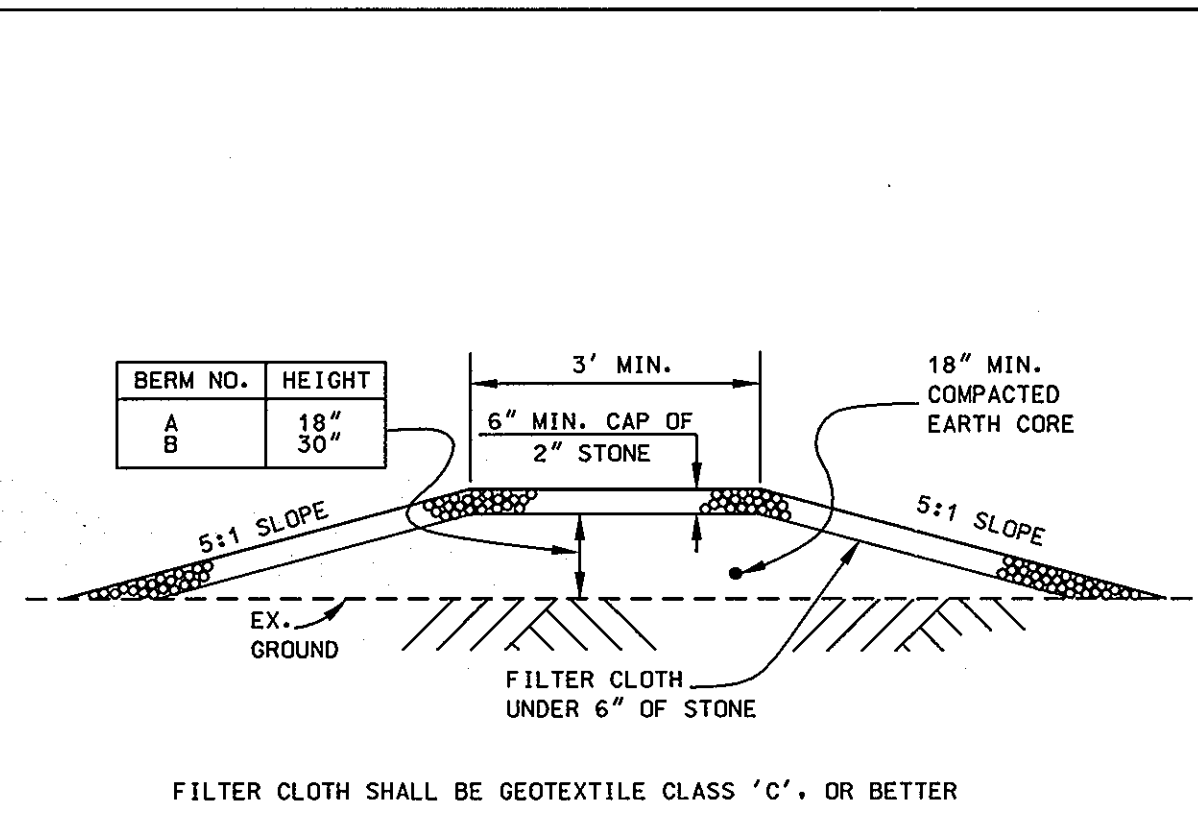
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Construction Specification
- Length - minimum of 50' (#30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL - MOUNTABLE BERM

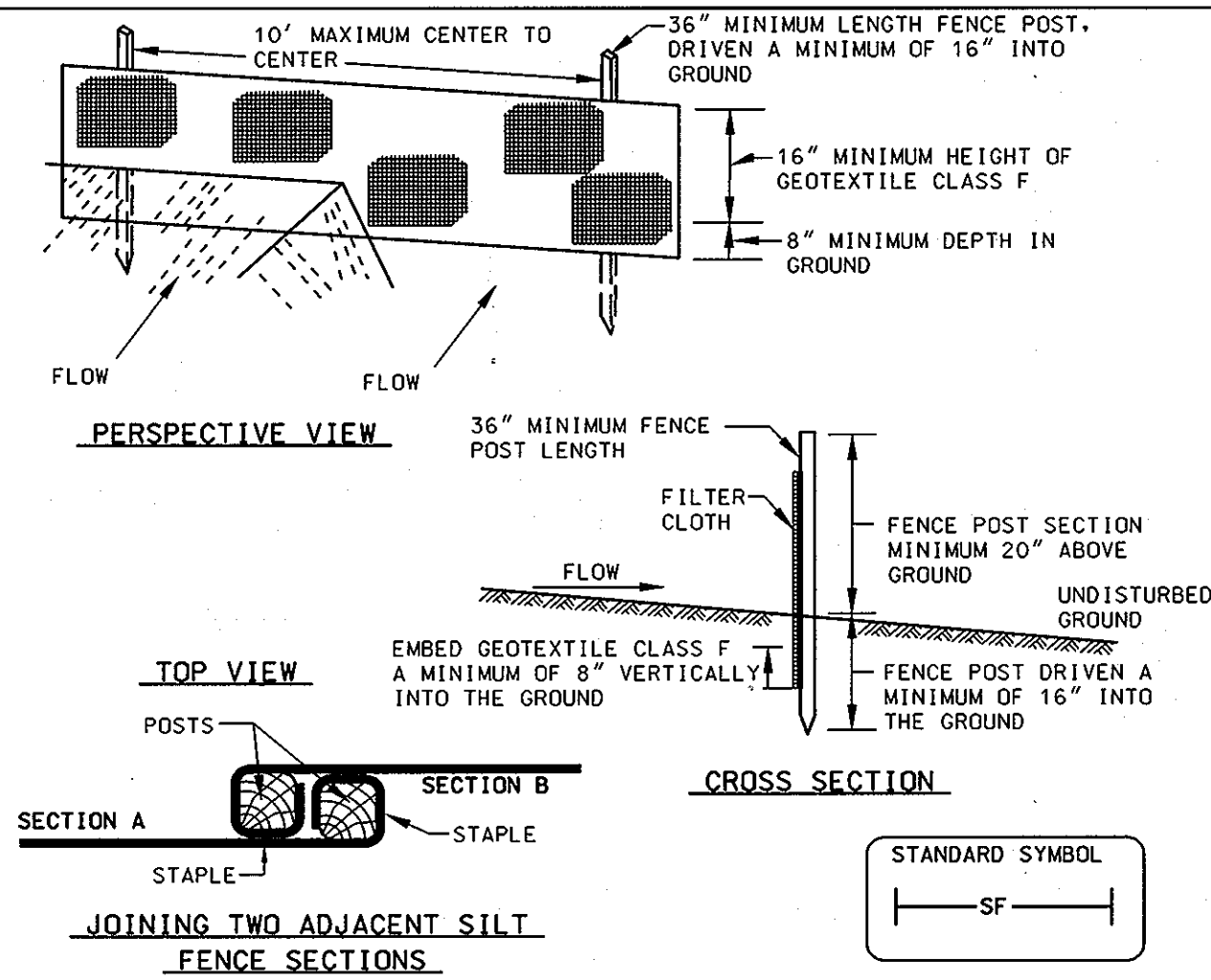


- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E - 16 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE

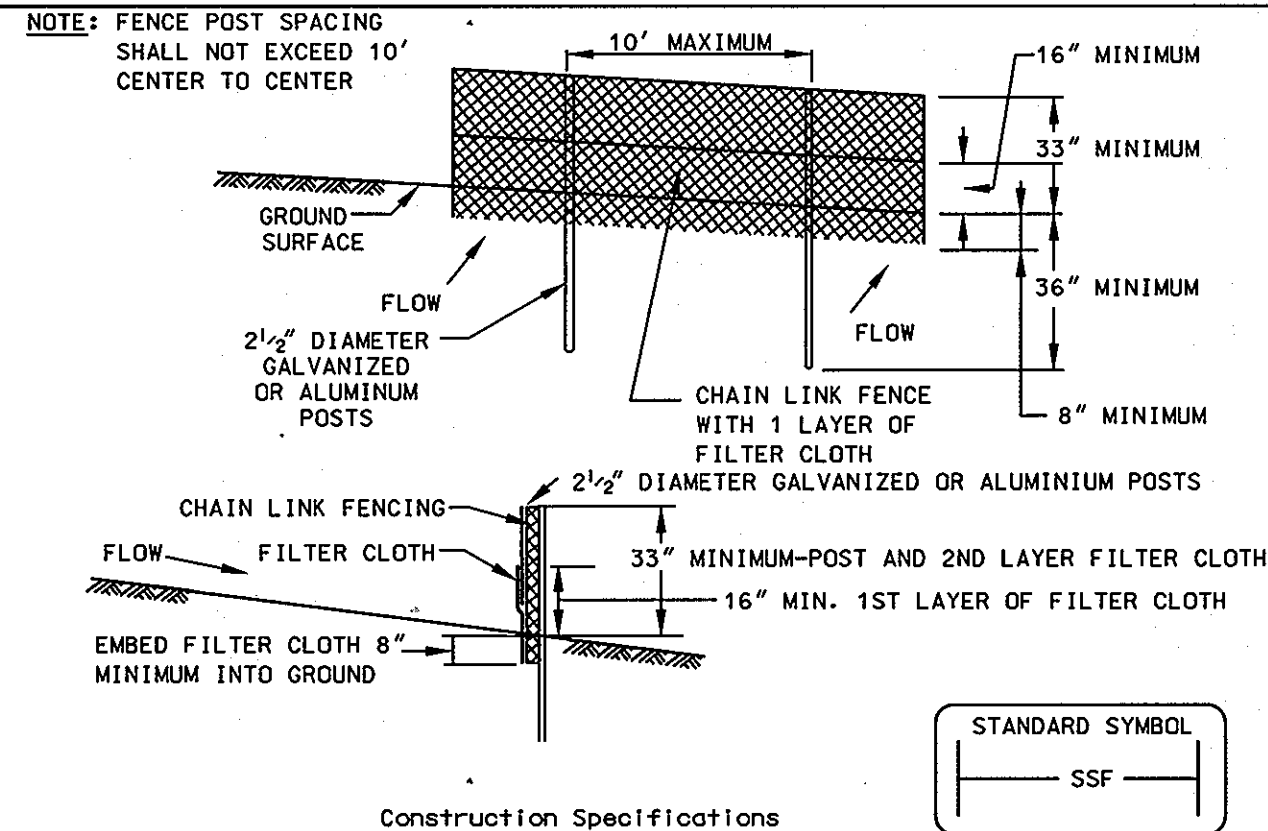


- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E - 16 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE

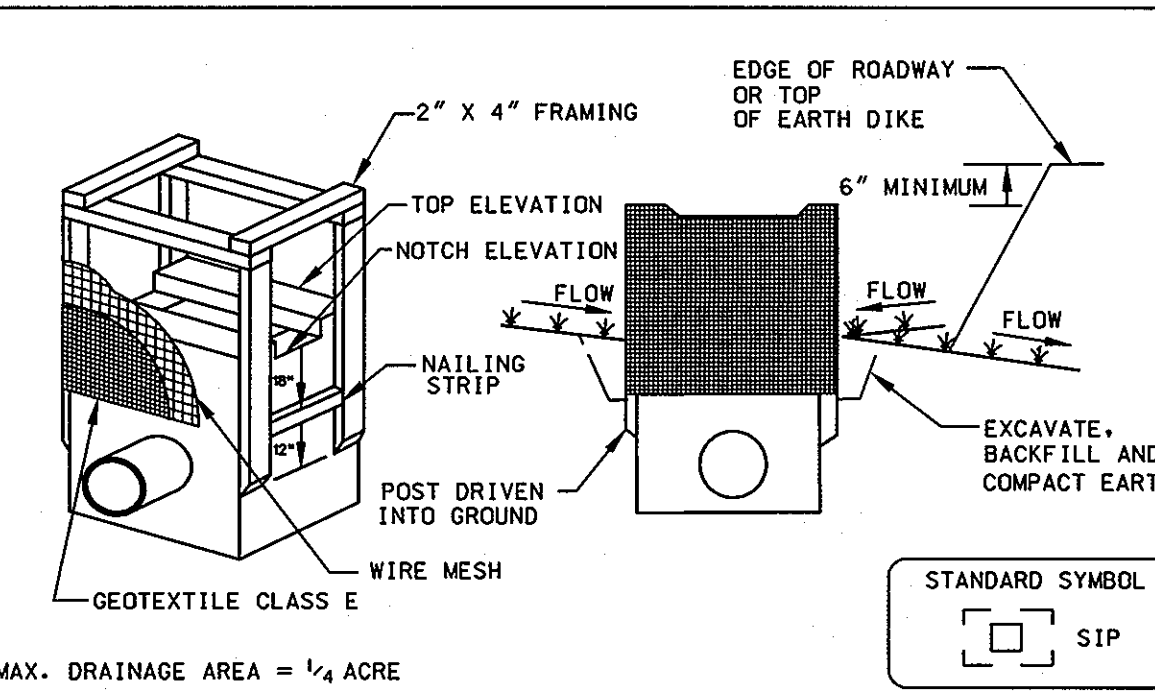


- Construction Specifications
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wires, brace and fruss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H - 26 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

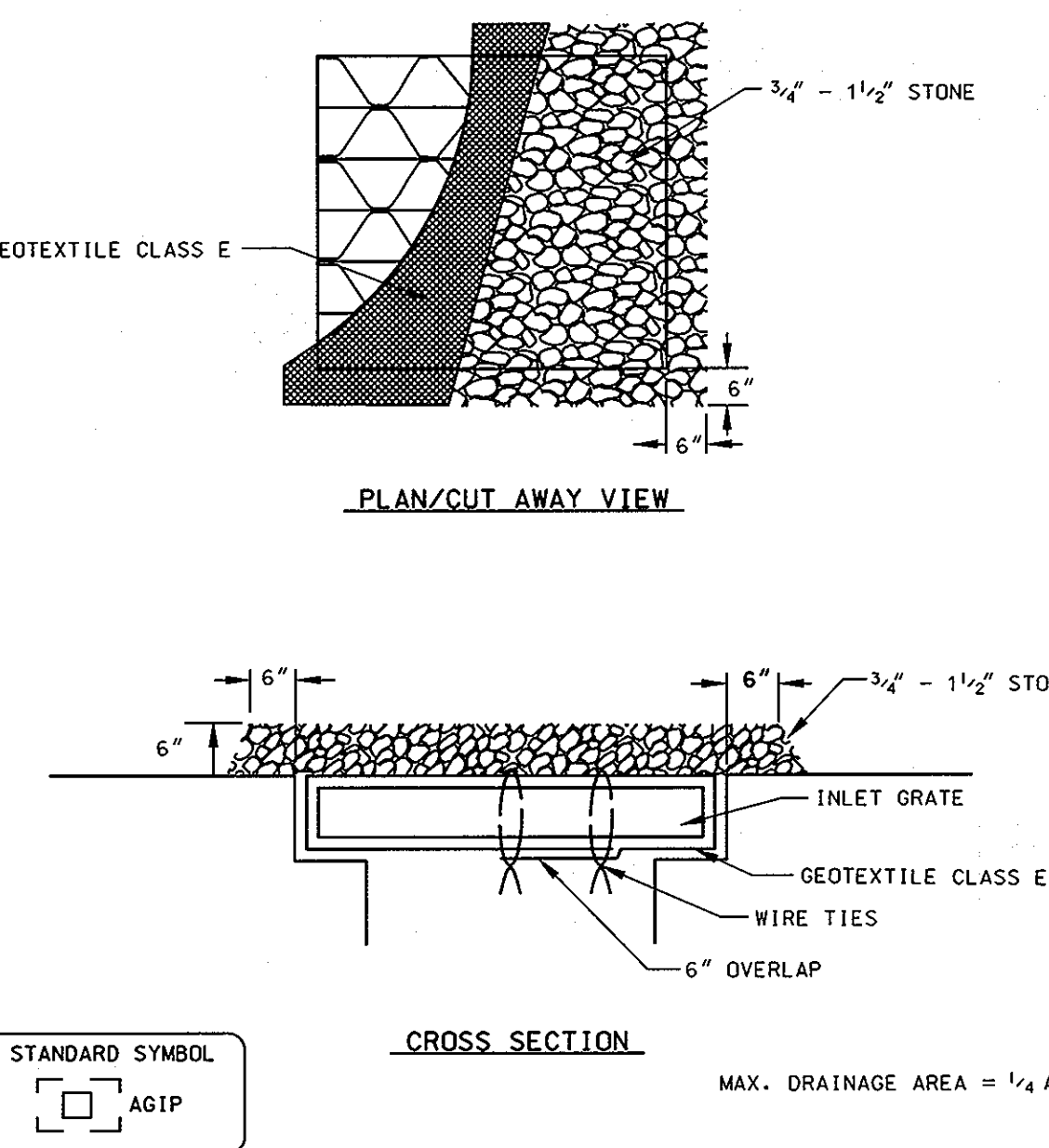
DETAIL 23A - STANDARD INLET PROTECTION



- Construction Specifications
- Excavate completely around the inlet to a depth of 18" below the notch elevation.
 - Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.
 - Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
 - Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
 - Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
 - If the inlet is not in a swmp, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
 - The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E - 16 - 5 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

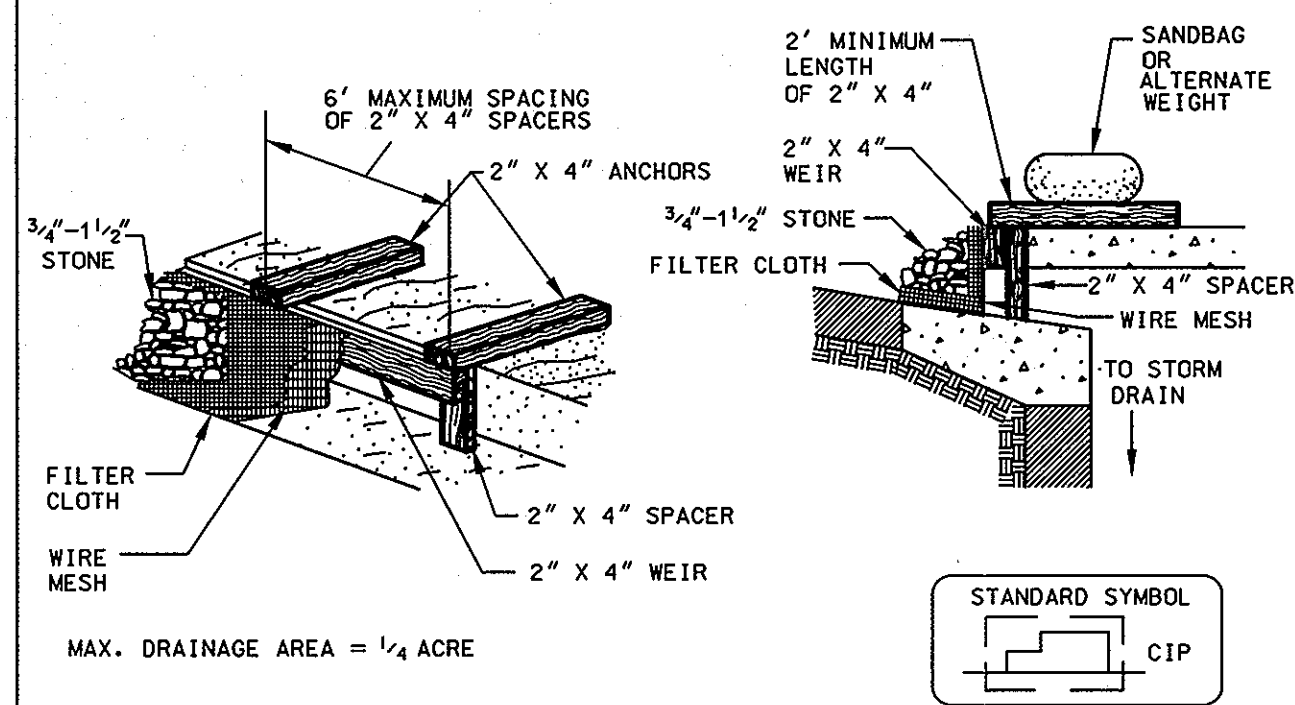
DETAIL 23B - AT GRADE INLET PROTECTION



- Construction Specifications
- Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.
 - Place 3/4" to 1 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E - 18 - 5A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CURB INLET PROTECTION (COG OR COS INLETS)



- Construction Specifications
- Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
 - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
 - Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass the Inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E - 16 - 5B MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

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"

John Gallegra
 John Eidberger
 Date: 8/10/20

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District"

Iwona Rostek-Zarska
 Iwona Rostek-Zarska, P.E. 21245
 Date: 8/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division HS
 Chief, Division of Land Development
 Date: 8/20/20

ADDRESS CHART

LOT / PARCEL NO.	STREET ADDRESS
PARCEL A	9319 BALTIMORE NATIONAL PIKE
PARCEL B	9309 BALTIMORE NATIONAL PIKE
PARCEL C	NORTH CHATHAM ROAD
PARCEL D	3430 NORTH CHATHAM ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION / AREA	LOT / PARCEL NO.
PARKER SUBDIVISION	N/A	A, B, C & D
PLAT NO. or L/F	GRID NO.	ZONING
11134	4	B-2-TNC/R-A-15
TAX MAP NO.	ELEC. DIST.	CENSUS TRACT
24	2ND	6023-06

BLDG
 Baltimore Land Design Group Inc.
 Consulting Engineers

222 SCHILLING CIRCLE SUITE 105 • HUNT VALLEY, MARYLAND 21030
 PHONE: 410.229.9851 • FAX: 410.229.9865 • BLDG@BLDGINC.COM

PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21245, EXPIRATION DATE: JUNE 9, 2012.

OWNER
 McDONALD'S CORPORATION
 P.O. BOX 182571
 COLUMBUS, OHIO 43218

DEVELOPER / APPLICANT
 McDONALD'S USA, LLC
 BALTIMORE - WASHINGTON REGION
 6903 ROCKLEDGE DRIVE
 SUITE 1100
 BETHESDA, MD 20817
 (240) 497-3626

DATE	ITEM	BY

EROSION AND SEDIMENT CONTROL DETAILS
McDONALD'S RESTAURANT
 9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
 SCALE: N/A

SHEET 3 OF 7
 DATE: AUGUST, 2010
 ECP-10-009

21.0 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 VEGETATIVE 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

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - B. 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.
 - C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - D. THE SOIL IS HIGHLY ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSES OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

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 SITE TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - A. TOPSOIL SHALL BE A LOAM OR 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 LESS THAN 5% BY VOLUME OF CONCRETE, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1/2" IN DIAMETER.
 - B. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTGRASS, OR OTHERS AS SPECIFIED.
 - C. 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 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF THE TOPSOIL. SHALL BE DISTRIBUTED 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 AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

- I. ON SITE MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS TO BE APPLIED TO COMPLY WITH THE FOLLOWING:
 - A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 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.
 - B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 - C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - D. NO SOIL OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STABILIZANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL THE HAS ELAPSED (90 DAYS MIN) TO PERMIT DISSIPATION OF PHYTO-TOXIC 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.

- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

V. TOPSOIL APPLICATION

- I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSION, 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, ABOUT 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". SEEDING 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.
- IV. 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 SEEDBED PREPARATION.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

- I. 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:
 - A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY OR ORIGINATED 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.
 - B. 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.
 - C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1000 SQUARE FEET.
- II. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB./1000 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 INSTITUTES. REVISED 1973.

PERMANENT / TEMPORARY SEEDING NOTES

PERMANENT SEEDING NOTES

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

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

SOIL AMENDMENTS - IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1. PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM 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 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 90 LBS. PER ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31 SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 15 THRU 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. (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

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

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

TEMPORARY SEEDING NOTES

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

SEEDBED PREPARATION - LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU OCTOBER 15, SEED WITH 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ. FT.) FOR THE PERIOD NOVEMBER 15 THRU 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 1/2 TO 2 TONS PER ACRE (70 - 90 LBS./1000 SQ. FT.) OF UNROTTED WEEF FREE SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

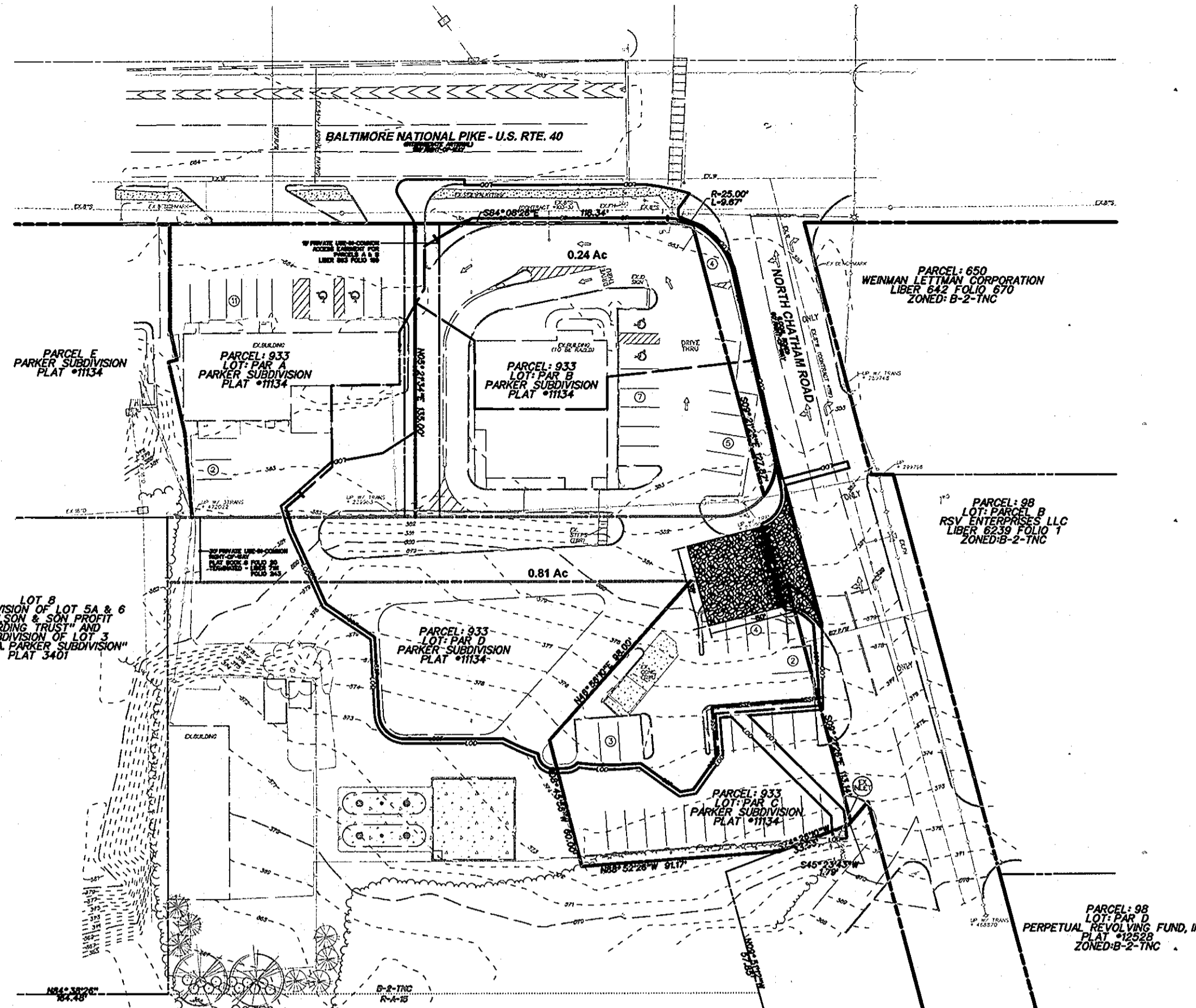
DUST CONTROL SPECIFICATIONS

TEMPORARY METHODS:

- 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLOUDS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- 4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOST. REPEAT AS NEEDED, AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THE RUNOFF BEGINS TO FLOW.
- 5. BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TO 15 FEET. THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- 6. CALCIUM CHLORIDE - APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

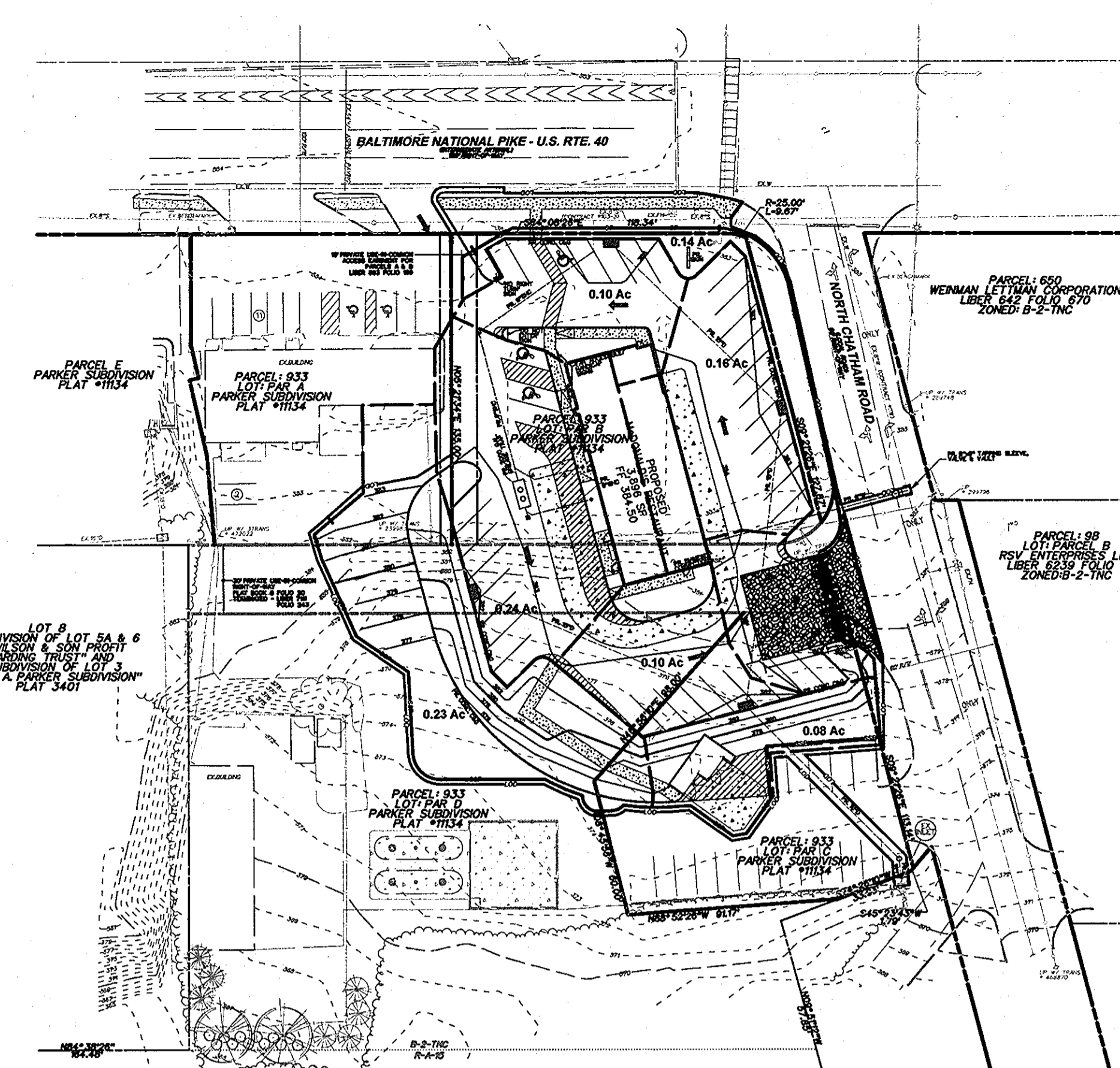
PERMANENT METHODS:

- 1. PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- 2. TOPSOILING - COVERING WITH LESS EROSIIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- 3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



EXISTING DRAINAGE AREA MAP

SCALE: 1"=50'



PROPOSED DRAINAGE AREA MAP

SCALE: 1"=50'

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Howard Co. Dept. of Planning and Zoning

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."

John Eidberger 8/10/2010
Date

ENGINEER'S CERTIFICATE

"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Iwona Rostek-Zarska, P.E. 21245 8/1/10
Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division #347 8/10/10
Date
Chief, Division of Land Development 8/10/10
Date

ADDRESS CHART

LOT / PARCEL NO.	STREET ADDRESS
PARCEL A	9319 BALTIMORE NATIONAL PIKE
PARCEL B	9309 BALTIMORE NATIONAL PIKE
PARCEL C	NORTH CHATHAM ROAD
PARCEL D	3430 NORTH CHATHAM ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION / AREA	LOT / PARCEL NO.
PARKER SUBDIVISION	N/A	A, B, C & D
PLAT NO. or L/F	GRID NO.	ZONING
11134	4	B-2-TNC/R-A-15
TAX MAP NO.	ELEC. DIST.	CENSUS TRACT
24	2ND	6023-06

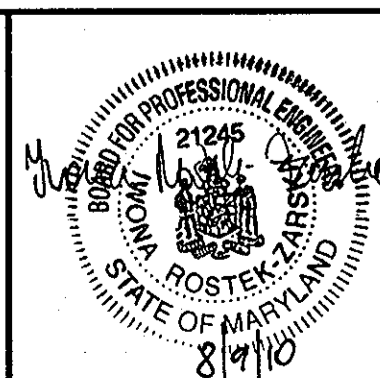
EROSION AND SEDIMENT CONTROL NOTES

McDONALD'S RESTAURANT
9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
SCALE: 1"=50'

SHEET 4 OF 7
DATE: AUGUST, 2010
ECP-10-009

BLDG
Baltimore Land Design Group Inc.
Consulting Engineers
222 SCHILLING CIRCLE SUITE 105 • HUNT VALLEY, MARYLAND 21030
PHONE: 410.229.9851 • FAX: 410.229.9865 • BLDG@BLDGINC.COM



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21245, EXPIRATION DATE: JUNE 9, 2012.

OWNER
McDONALD'S CORPORATION
P.O. BOX 182571
COLUMBUS, OHIO 43218

DEVELOPER / APPLICANT
McDONALD'S USA, LLC
BALTIMORE - WASHINGTON REGION
6903 ROCKLEDGE DRIVE
SUITE 1100
BETHESDA, MD 20817
(240) 497-3626

DATE	ITEM	BY

LEGEND

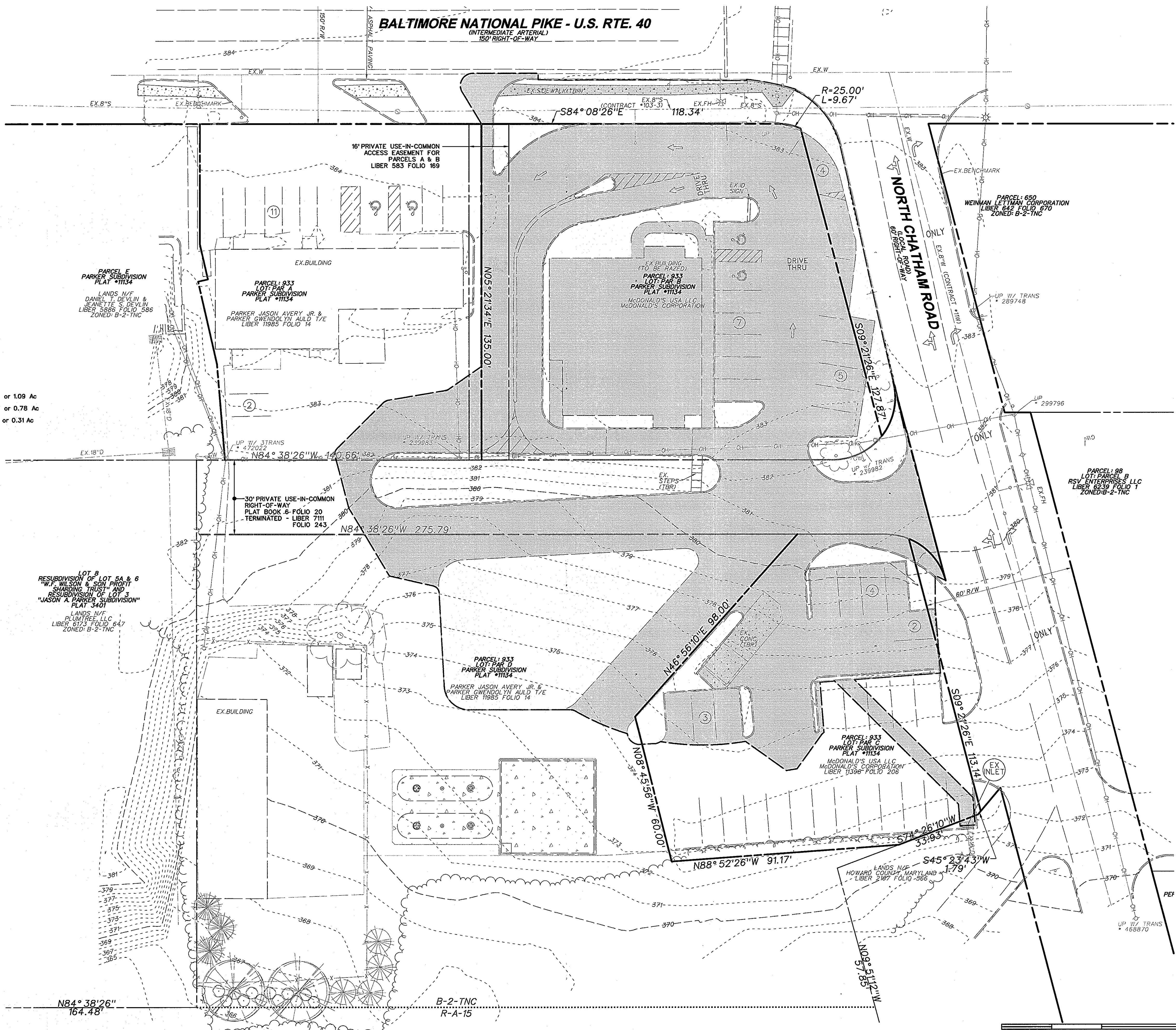
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- EX. STORM DRAIN
- EX. SANITARY SEWER, MANHOLE & CLEANOUT
- EX. WATER MAIN, VALVE & FIRE HYDRANT
- EX. ELECTRIC LINE
- EX. TREE LINE
- EX. INDEX COUNTOURS
- EX. INTERMEDIATE CONTOURS
- ZONING LINE
- PR. TREE LINE
- PR. STORM DRAIN
- PR. SANITARY SEWER & CLEANOUT
- PR. WATER MAIN, VALVE & FIRE HYDRANT
- PR. EASEMENT LINE
- PR. INDEX COUNTOURS
- PR. INTERMEDIATE CONTOURS
- PR. CONC. CURB & GUTTER
- PR. PARKING COUNT

SWM LEGEND

- TOTAL LIMIT OF DISTURBANCE 47,602 SF or 1.09 Ac
- EXISTING IMPERVIOUS AREA 34,050 SF or 0.78 Ac
- EXISTING GRASS 13,552 SF or 0.31 Ac

SOIL CLASSIFICATION		
UoB	Urban land - Udorthents complex	C

NOTE: THE URBAN LAND SOIL TYPE ENCOMPASSES AN AREA MUCH LARGER THAN THE SUBJECT SITE. THEREFORE, SOIL LINES ARE NOT SHOWN AT THIS SCALE.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ...
 Chief, Development Engineering Division HSP
 Chief, Division of Land Development

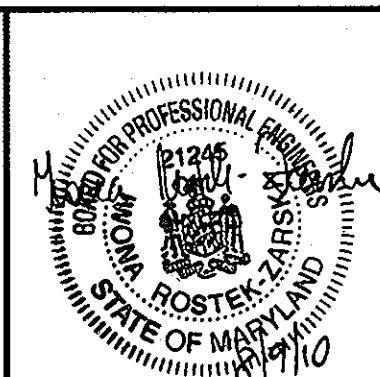
Date: 8/20/10
 Date: 8/18/10
 Date: _____

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11134	4	B-2-TNC/R-A-15	24	2ND	6023-06

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 BALTIMORE - WASHINGTON REGION
 6903 ROCKLEDGE DRIVE
 SUITE 1100
 BETHESDA, MD 20817
 (240) 497-3626

DATE	ITEM	BY

STORMWATER MANAGEMENT PLAN
 REDEVELOPMENT - EXISTING CONDITION

McDONALD'S RESTAURANT
 9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
 SCALE: 1"=20'

SHEET 5 OF 7
 DATE: AUGUST, 2010
 ECP-10-009

LEGEND

RIGHT-OF-WAY LINE	---
PROPERTY LINE	---
EX. STORM DRAIN	EX. 18" D
EX. SANITARY SEWER, MANHOLE & CLEANOUT	EX. 8" S
EX. WATER MAIN, VALVE & FIRE HYDRANT	EX. 8" W
EX. ELECTRIC LINE	---
EX. TREE LINE	---
EX. INDEX COUNTOURS	---
EX. INTERMEDIATE COUNTOURS	---
ZONING LINE	B-2-TNC R-A-15
PR. TREE LINE	---
PR. STORM DRAIN	PR. 15" D
PR. SANITARY SEWER & CLEANOUT	PR. 8" S
PR. WATER MAIN, VALVE & FIRE HYDRANT	PR. 8" W
PR. EASEMENT LINE	---
PR. INDEX COUNTOURS	---
PR. INTERMEDIATE COUNTOURS	---
PR. CONC. CURB & GUTTER	---
PR. PARKING COUNT	(B)

SWM LEGEND

TOTAL LIMIT OF DISTURBANCE	47,602 SF or 1.09 Ac
PROPOSED IMPERVIOUS AREA	35,623 SF or 0.82 Ac
PROPOSED GRASS	11,979 SF or 0.27 Ac

SOIL CLASSIFICATION

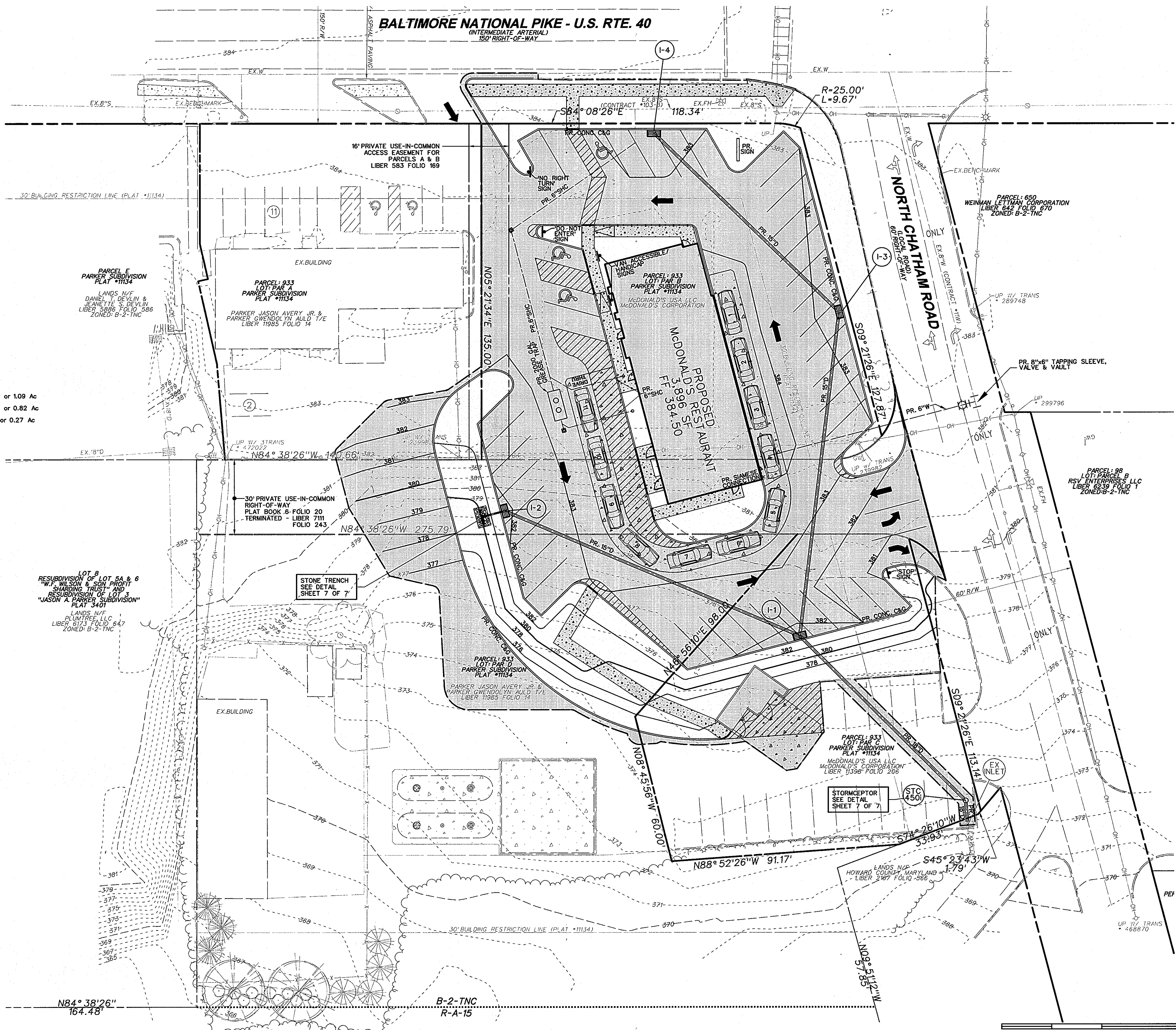
UuB	Urban land - Udothentis complex	C
-----	---------------------------------	---

NOTE: THE URBAN LAND SOIL TYPE ENCOMPASSES AN AREA MUCH LARGER THAN THE SUBJECT SITE. THEREFORE, SOIL LINES ARE NOT SHOWN AT THIS SCALE.

SUMMARY TABLE

DEVELOPABLE AREA (LOD)	1.09 Ac
EXISTING IMPERVIOUS AREA TO BE DISTURBED	0.78 Ac
PROPOSED IMPERVIOUS AREA	0.82 Ac
INCREASE IN IMPERVIOUS AREA	0.04 Ac
SOZ OF DISTURBED EXISTING IMPERVIOUS AREA	0.39 Ac
DEVELOPABLE AREA TREATED BY BMP	0.70 Ac
IMPERVIOUS AREA NOT TREATED	0.39 Ac
% IMPERVIOUSNESS	61.4%
ESD VOLUME REQUIRED	2,210 CF
ESD VOLUME PROVIDED	2,210 CF
RECHARGE VOLUME REQUIRED	18 CF
RECHARGE VOLUME PROVIDED	20 CF
WATER QUALITY BMP	STORMCEPTOR (STC 450)

NOTE: FOR DETAILS OF STONE TRENCH (RECHARGE) AND STORMCEPTOR, SEE SHEET 7 OF 7.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/20/10
 Chief, Development Engineering Division HSP Date
[Signature] 8/20/10
 Chief, Division of Land Development Date

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[Signature]
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER

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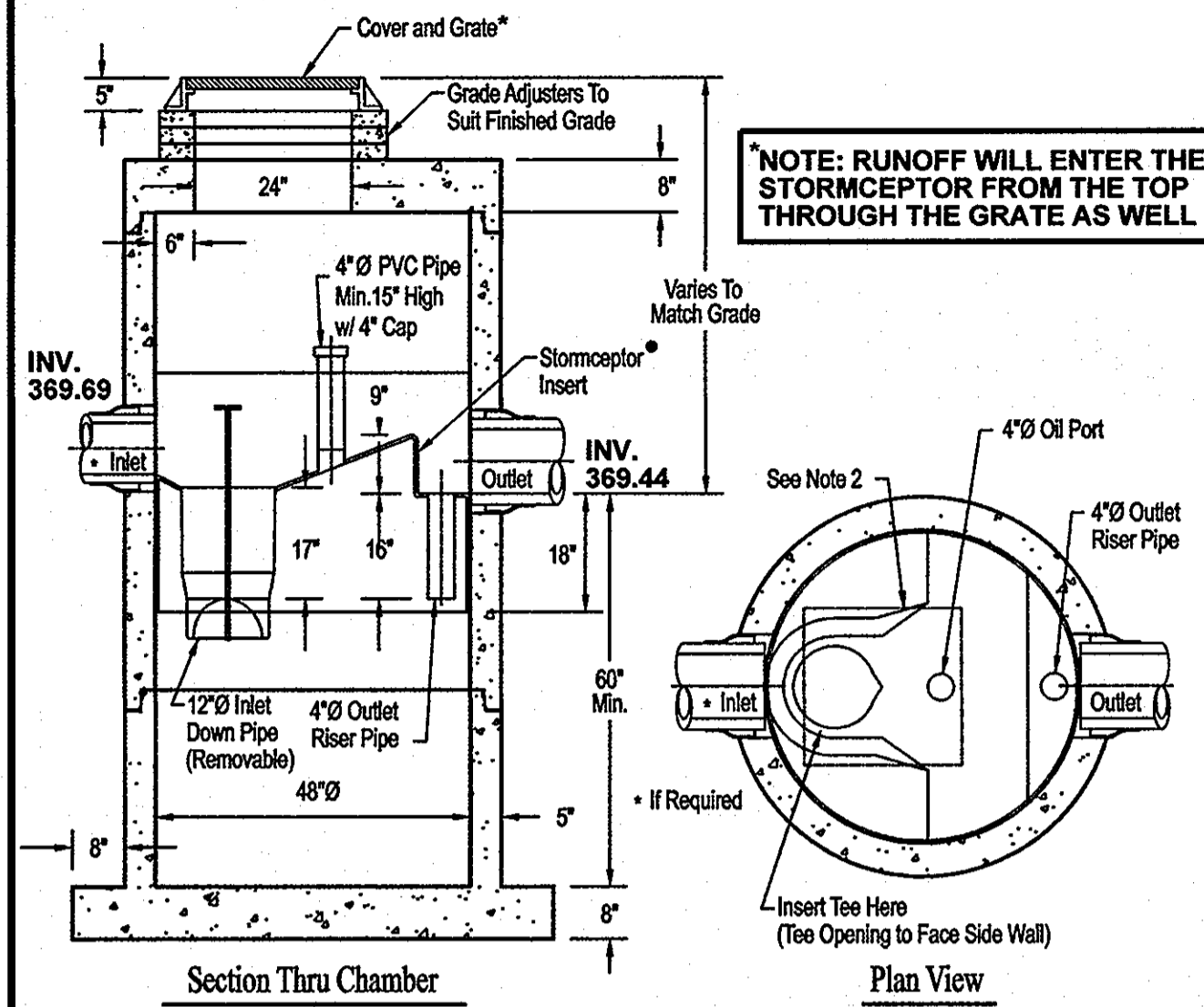
STORMWATER MANAGEMENT PLAN
 REDEVELOPMENT - PROPOSED CONDITION

McDONALD'S RESTAURANT
 9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
 SCALE: 1"=20'

SHEET 6 OF 7
 DATE: AUGUST, 2010
 ECP-10-009

STC 450i Precast Concrete Stormceptor®
(450 U.S. Gallon Capacity)



***NOTE: RUNOFF WILL ENTER THE STORMCEPTOR FROM THE TOP THROUGH THE GRATE AS WELL**

10. Installation

The installation of the concrete Stormceptor should conform in general to state highway, or local specifications for the installation of manholes. Selected sections of a general specification that are applicable are summarized in the following sections.

10.1. Excavation

Excavation for the installation of the Stormceptor should conform to state highway, or local specifications. Topsoil removed during the excavation for the Stormceptor should be stockpiled in designated areas and should not be mixed with subsoil or other materials. Topsoil stockpiles and the general site preparation for the installation of the Stormceptor should conform to state highway or local specifications.

The Stormceptor should not be installed on frozen ground. Excavation should extend a minimum of 12 inches (300 mm) from the precast concrete surfaces plus an allowance for shoring and bracing where required. If the bottom of the excavation provides an unsuitable foundation additional excavation may be required.

In areas with a high water table, continuous dewatering may be required to ensure that the excavation is stable and free of water.

10.2. Backfilling

Backfill material should conform to state highway or local specifications. Backfill material should be placed in uniform layers not exceeding 12 inches (300mm) in depth and compacted to state highway or local specifications.

11. Stormceptor Construction Sequence

The concrete Stormceptor is installed in sections in the following sequence:

1. Aggregate base
2. Base slab
3. Lower chamber sections
4. Upper chamber section with fiberglass insert
5. Connect inlet and outlet pipes
6. Assembly of fiberglass insert components (drop tee, riser pipe, oil cleanout port and orifice plate)
7. Remainder of upper chamber
8. Frame and access cover

The precast base should be placed level at the specified grade. The entire base should be in contact with the underlying compacted granular material. Subsequent sections, complete with joint seals, should be installed in accordance with the precast concrete manufacturer's recommendations.

Adjustment of the Stormceptor can be performed by lifting the upper sections free of the excavated area, re-leveling the base and re-installing the sections. Damaged sections and gaskets should be repaired or replaced as necessary. Once the Stormceptor has been constructed, any lift holes must be plugged with mortar.

12. Maintenance

12.1. Health and Safety

The Stormceptor System has been designed considering safety first. It is recommended that confined space entry protocols be followed if entry to the unit is required. In addition, the fiberglass insert has the following health and safety features:

- Designed to withstand the weight of personnel
- A safety grate is located over the 24 inch (600 mm) riser pipe opening
- Ladder rungs can be provided for entry into the unit, if required

12.2. Maintenance Procedures

Maintenance of the Stormceptor system is performed using vacuum trucks. No entry into the unit is required for maintenance (in most cases). The vacuum service industry is a well-established sector of the service industry that cleans underground tanks, sewers and catch basins. Costs to clean a Stormceptor will vary based on the size of the unit and transportation distances.

The need for maintenance can be determined easily by inspecting the unit from the surface. The depth of oil in the unit can be determined by inserting a dipstick in the oil inspection/cleanout port.

Similarly, the depth of sediment can be measured from the surface without entry into the Stormceptor via a dipstick tube equipped with a ball valve. This tube would be inserted through the riser pipe. Maintenance should be performed once the sediment depth exceeds the guideline values provided in the Table 4.

Table 4. Sediment Depths Indicating required servicing.

Model	Sediment Depth inches (mm)
450i	8 (200)
900	8 (200)
1200	10 (250)
1800	15 (381)
2400	12 (303)
3600	17 (430)
4800	15 (380)
6000	18 (450)
7200	15 (381)
11000	17 (380)
13000	20 (500)
16000	17 (380)

* based on 15% of the Stormceptor unit's total storage

Although annual servicing is recommended, the frequency of maintenance may need to be increased or reduced based on local conditions (i.e. if the unit is filling up with sediment more quickly than projected, maintenance may be required semi-annually, conversely once the site has stabilized maintenance may only be required every two or three years).

Oil is removed through the oil inspection/cleanout port and sediment is removed through the riser pipe. Alternatively oil could be removed from the 24 inches (600 mm) opening if water is removed from the lower chamber to lower the oil level below the drop pipes.

The following procedures should be taken when cleaning out Stormceptor:

1. Check for oil through the oil cleanout port
2. Remove any oil separately using a small portable pump
3. Decant the water from the unit to the sanitary sewer, if permitted by the local regulating authority, or into a separate containment tank
4. Remove the sludge from the bottom of the unit using the vacuum truck
5. Re-fill Stormceptor with water where required by the local jurisdiction

12.3. Submerged Stormceptor

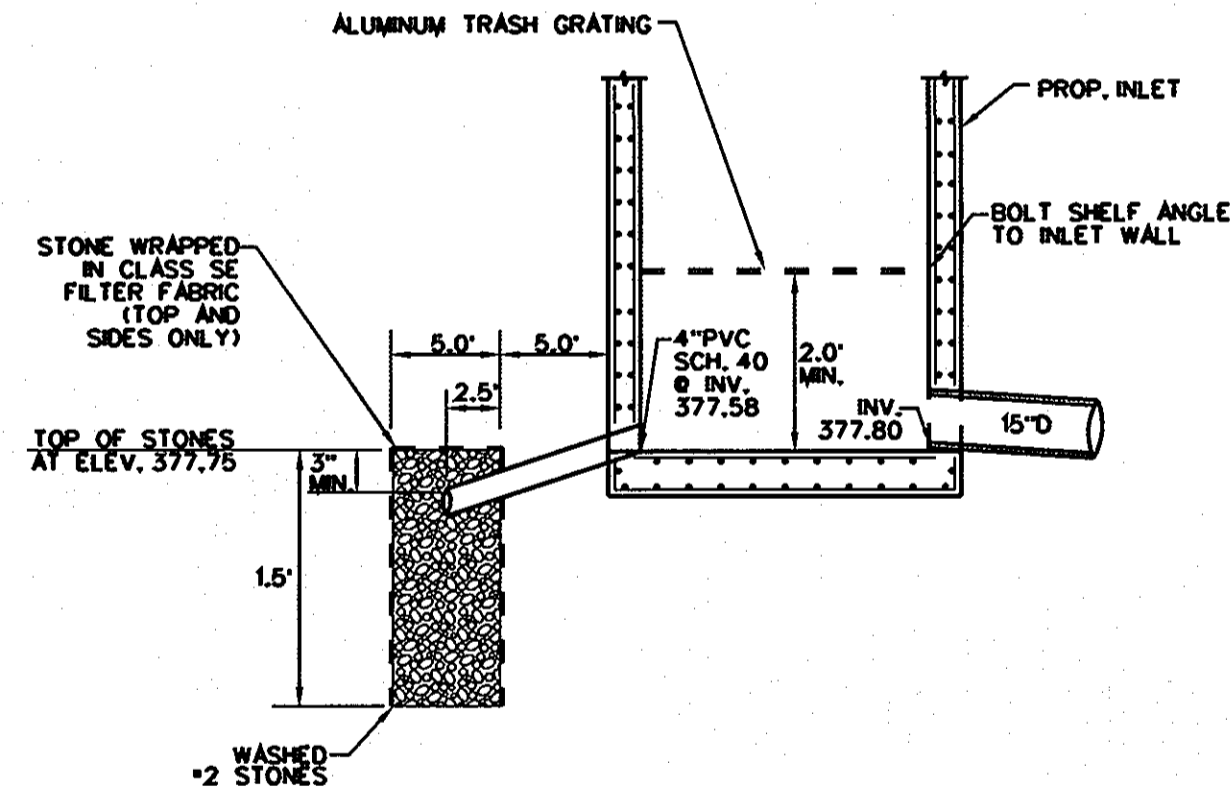
Careful attention should be paid to maintenance of the Submerged Stormceptor System. In cases where the storm drain system is submerged, there is a requirement to plug both the inlet and outlet pipes to economically clean the unit.

- Notes:
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

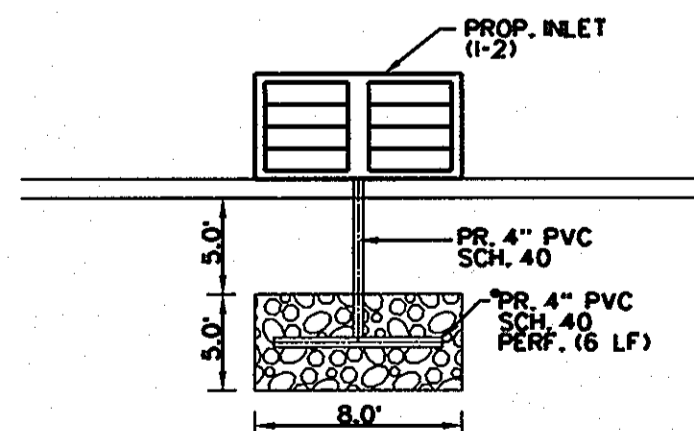
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OPERATION AND MAINTENANCE SCHEDULE FOR RECHARGE FACILITY

1. RECHARGE FACILITY SHALL BE INSPECTED ANNUALLY AND BE REPAIRED OR CLEANED AS NEEDED.
2. REMOVE SEDIMENT AND TRASH FROM SEDIMENT TRAPPING INLET AS NEEDED AND CLEAN OPENINGS AT INLET BOTTOM.
3. INSPECT FACILITY EVERY OTHER MONTH AND AFTER LARGE STORM EVENTS TO OBSERVE WATER ELEVATIONS. IF STANDING WATER IS OBSERVED IN THE FACILITY, RE-INSPECT AFTER 72 HOURS AND REPAIR AS NECESSARY.



INLET DETAIL (I-2)
NOT TO SCALE



STONE TRENCH DETAIL
NOT TO SCALE

NOTE: PIPE SHOULD BE 4" DIAMETER PERFORATED RIGID PLASTIC PIPE (ASTM F558, TYPE PS 28 OR AASHTO M-278). PERFORATIONS SHOULD BE 3/8" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW.

APPROVED: DEPARTMENT OF PLANNING AND ZONING		
Chief, Development Engineering Division HSP	Date 8/18/10	
Chief, Division of Land Development	Date 8/18/10	
Director	Date	

ADDRESS CHART	
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STORM WATER MANAGEMENT PLAN
DETAILS AND SPECIFICATIONS

McDONALD'S RESTAURANT
9309 BALTIMORE NATIONAL PIKE

HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN

SHEET 7 OF 7
DATE: AUGUST, 2010
ECP-10-009