McDONALD's CORPORATION

8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029

LEGEND

EXISTING		PROPOSED
	ON-SITE PROPERTY LINE / R.O.W. LINE	
	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	
	EASEMENT LINE	
	BUILDING/PARKING SETBACK LINE	
	R.O.W. CENTERLINE	
	SANITARY SEWER MAIN	S
S	SANITARY SEWER LATERAL	S
	STORM SEWER	
W	WATER LINE	W
G	GAS LINE	G
E	UG ELECTRIC LINE	E
T	UG TELEPHONE LINE	T
OH	OH WIRE	OH
C	UG CABLE LINE	C
	EDGE OF PAVEMENT	
	CONCRETE CURB	
	CONCRETE CURB (TBR)	
	REVERSE CURB	
	CONCRETE CURB & GUTTER	
	BUILDING LINE	
600	INDEX CONTOUR LINE	605
602	INTERMEDIATE CONTOUR LINE	602
TC 603.7 BC 603.7 OR 603.2	SPOT ELEVATION	TC 603.7 BC 603.2 OR 603.1
	RIP RAP	
	FLARED END SECTION	
	HEADWALL OR ENDWALL	
TP	TEST PIT	TP
	STORM DRAIN MANHOLE	
	YARD INLET	
	GRATE INLET	
	CURB INLET	
J	STORM STRUCTURE NO. LABEL	6
	DECORATIVE AREA LIGHT	
	AREA / YARD LIGHT	
C/O	CLEANOUT	C/O
	HYDRANT	
	WATER METER	
WV	WATER VALVE	WV
GV	GAS VALVE	GV
	UTILITY POLE	
	TRAFFIC SIGNAL	
	SIGN	
ABCDEFG	TYPICAL NOTE TEXT	ABCDEFG
N 27°54'32" E	TYPICAL METES & BOUNDS DESCRIPTION TEXT	N 27°54'32" E

SHEET INDEX

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY PLAN
6	SEDIMENT AND EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
8	SITE LANDSCAPE PLAN
9	SITE LANDSCAPE NOTES AND DETAILS
10	SITE LIGHTING PLAN
11	UTILITY PROFILES AND DRAINAGE AREA MAP
12	UTILITY PROFILES
13	CONSTRUCTION NOTES AND DETAILS
14	CONSTRUCTION NOTES AND DETAILS
15	BUILDING ELEVATIONS

GENERAL NOTES:

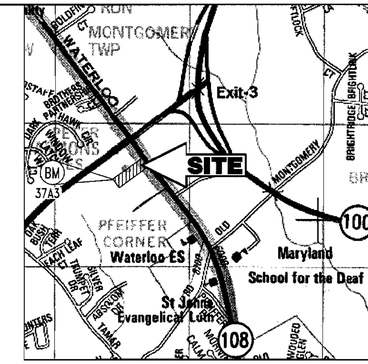
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV. "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
2. THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE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

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

7. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
9. THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A FAST-FOOD RESTAURANT.
10. SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY TO NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
11. ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE RESTAURANT SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
12. PUBLIC WATER AND SEWER WILL BE UTILIZED. A WATER METER SHALL BE LOCATED WITHIN THE PROPERTY LINE AND WILL MEET ALL HOWARD COUNTY STANDARDS.
13. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 37A3 WAS USED FOR THIS PROJECT.
14. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY CONTROL POINT ASSOCIATES DATED 9/24/01.
17. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
18. ALL LIGHTING MUST BE DIRECTED AWAY FROM ADJACENT PUBLIC RIGHT OF WAY AND THE ADJACENT RESIDENTIAL PROPERTIES AND COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
19. CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT (410) 313-1880
20. ALL REFUSE SHALL BE STORED IN THE PROPOSED MASONRY TRASH ENCLOSURE IN ACCORDANCE WITH THE HOWARD COUNTY RULES AND REGULATIONS FOR REFUSE COLLECTION.
21. STORMWATER MANAGEMENT QUALITY AND QUANTITY HAS BEEN ADDRESSED BY A REGIONAL FACILITY FOR THE RTE 108 COMMERCIAL COMPLEX.
22. THERE ARE NO STREAMS, WETLANDS, OR FLOODPLAINS ON SITE.
23. THERE ARE NO KNOWN CEMETERIES ON SITE.
24. IN ACCORDANCE WITH HOWARD COUNTY SUBDIVISION REGULATIONS SEC.. 16.102(a) THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION OBLIGATIONS.
25. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE NEWTOWN ALERNATIVE COMPLIANCE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
26. FINANCIAL SURETY FOR THE REQUIRED PLANTS IN THE AMOUNT OF $7,200.00 IS PART OF THE BUILDERS GRADING PERMIT APPLICATION FOR PARCEL B-8.

PROJECT BACKGROUND:
SEE DEPT. OF PLANNING AND ZONING FILE NUMBER:
F-98-101, SP-98-05, FDP-229, PB-315, WP-97-107 & WP-98-34,
PLAT NO. 14126, PLAT NO. 14821, F-00-57, SDP-00-125, F-01-21.



LOCATION MAP

COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20694276
SCALE: 1"=1000'

BENCHMARK INFORMATION

NAIL SET AT SOUTHWEST CORNER OF THE LOT B-8 HOWARD RESEARCH AND DEVELOPMENT CORPORATION. ELEVATION 395.89 (REFER TO EXISTING CONDITIONS FOR LOCATION).

COUNTY CONTROL INFORMATION

STATION 37A3
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.

SITE ANALYSIS DATA CHART

PROJECT AREA: PARCEL B-8 = 1.34 AC. OR 58,429 S.F.

LIMIT OF DISTURBED AREA: 1.34 AC. OR 58,429 S.F.

PRESENT ZONING: PARCEL B-8 = NT (NEW TOWN) E.C.-COMM.,FDP 229

PROPOSED USE: FAST FOOD RESTAURANT

FLOOR SPACE: 4,173 S.F.

MAXIMUM NUMBER OF EMPLOYEES: 15

PARKING SPACES REQUIRED: 59 PARKING SPACES

PARKING SPACES PROVIDED: 59 INCLUDING 3 HANDICAP SPACES

BUILDING COVERAGE OF PARCEL B-8: 0.09 ACRES (6.7% OF GROSS AREA)

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

McDonald's

McDonald's®

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

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 THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/9/02
DIRECTOR	DATE 7/9/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. M.P.H. 7/7/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

PREPARED BY

BOHLER ENGINEERING, P.C.
810 GLENEAGLES COURT, SUITE 300
TOWSON, MARYLAND 21286
(410) 821-7900

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

STATE OF MARYLAND — ADAM J. VOLANTH — No. 21342 — PROFESSIONAL ENGINEER

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA	LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1	PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE	
E-07			2780000	

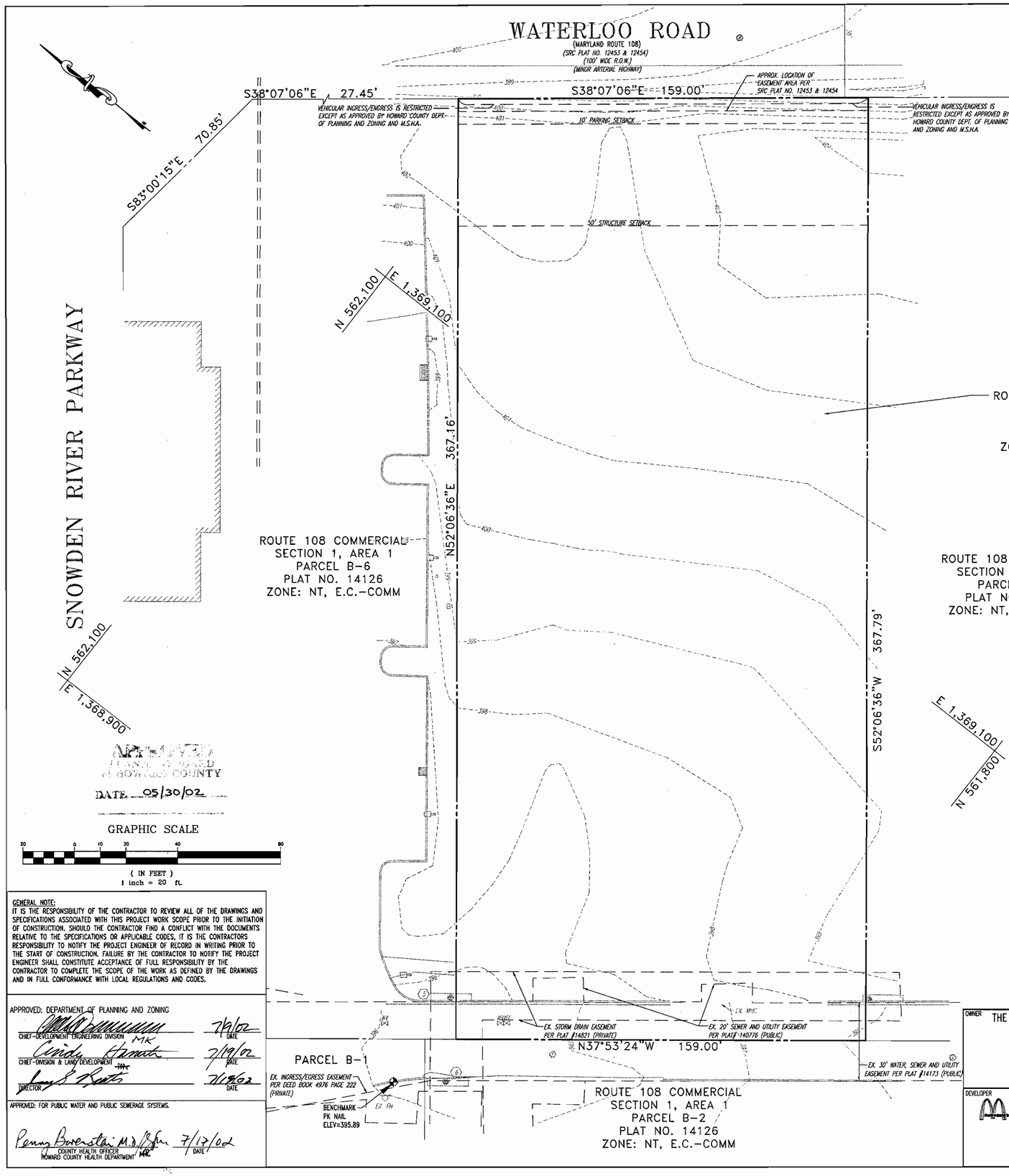
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
COVER SHEET

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		1 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			



NOTES:

1. PROPERTY KNOWN AS MAP 37, GRID 1, PARCEL 498, LOT B-8 AS SHOWN ON THE TAX MAP OF HOWARD COUNTY
2. AREA = 58,429 S.F. OR 1.3413± ACRES
3. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY IS PREPARED WITH REFERENCE TO A TITLE COMMITMENT REPORT PREPARED BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NUMBER 4501-42577, EFFECTIVE DATE REVISED 11/30/01. OUR OFFICE HAS REVIEWED THE FOLLOWING SURVEY RELATED EXCEPTIONS IN SCHEDULE B, SECTION 2:
   A. AGREEMENT BETWEEN WILLIAM M. ZELTMAN, JR. AND WIFE AND CONSOLIDATED GAS AND ELECTRIC LIGHT AND POWER COMPANY OF BALTIMORE, DATED OCTOBER 7, 1954 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN LIBER 265, FOLIO 570: BLANKET EASEMENT FOR UTILITIES, NOT PLOTTABLE.
   B. AGREEMENT BETWEEN WILLIAM M. ZELTMAN, JR. AND WIFE AND BALTIMORE GAS AND ELECTRIC COMPANY DATED DECEMBER 22, 1960, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN LIBER 367, FOLIO 554: BLANKET EASEMENT FOR UTILITIES, NOT PLOTTABLE
   C. AGREEMENT BETWEEN WILLIAM M. ZELTMAN, JR. AND WIFE AND BALTIMORE GAS AND ELECTRIC COMPANY DATED APRIL 1, 1965 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN LIBER 400, FOLIO 139: BLANKET EASEMENT FOR UTILITIES, NOT PLOTTABLE
   D. AGREEMENT BETWEEN THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION AND BALTIMORE GAS AND ELECTRIC COMPANY, DATED APRIL 26, 1967, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 468, FOLIO 239: BLANKET EASEMENT, LOCATION UNKNOWN, NOT PLOTTABLE
   E. MAINTENANCE AGREEMENT FOR STORMWATER MANAGEMENT FACILITY BETWEEN THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION AND HOWARD COUNTY, MARYLAND, DATED JUNE 8, 1998, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 4513, FOLIO 113: BLANKET, NOT PLOTTABLE
   F. DECLARATION OF RECIPROCAL EASEMENTS BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, DATED DECEMBER 22, 1999, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 4976, FOLIO 222, AS AMENDED BY AMENDMENT AND RESTATED DECLARATION OF RECIPROCAL EASEMENTS BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, DATED APRIL 12, 2000, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 5087, FOLIO 250: SHOWN
   G. DEED OF EASEMENT BETWEEN THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION AND HOWARD COUNTY, MARYLAND, DATED MAY 3, 2000, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 5106, FOLIO 598: WATER AND UTILITY EASEMENT SHOWN
   H. DEED OF EASEMENT, BETWEEN THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION AND HOWARD COUNTY, MARYLAND, DATED OCTOBER 10, 2000, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 5247, FOLIO 490: NOT PART OF PARCEL B-5, NOT PLOTTABLE
   I. DEED OF AGREEMENT AND DECLARATION OF COVENANTS, EASEMENTS, CHARGES AND LIENS, BETWEEN THE COLUMBUS PARK AND RECREATION ASSOCIATION AND C. AILEEN AMES, DATED DECEMBER 13, 1996, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 463, FOLIO 158: BLANKET, NOT PLOTTABLE
   J. ROUTE 108 COMMERCIAL PARK DECLARATION OF GENERAL COVENANTS AND RESTRICTIONS, BY THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION, DATED APRIL 12, 2000, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 5087, FOLIO 234: BLANKET, NOT PLOTTABLE
   K. DEED FROM WILLIAM M. ZELTMAN, ET AL, TO THE STATE ROADS COMMISSION, DATED OCTOBER 3, 1954, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 261, FOLIO 230, AND TO THE EASEMENTS SHOWN ON STATE ROAD PLATS NOS. 12453 AND 12454: PLAT 12454 ADJOINS SITE, EASEMENT SHOWN
   L. DEED FROM WILLIAM M. ZELTMAN TO THE STATE ROADS COMMISSION, DATED NOVEMBER 22, 1954, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 262, FOLIO 484, AND TO THE EASEMENTS SHOWN ON STATE ROAD PLATS NO. 12454: PLAT 12454 ADJOINS SITE, EASEMENT SHOWN
   M. ASSIGNMENT OF RIGHTS AND OBLIGATIONS WITH RESPECT TO ALL COVENANTS, CONDITIONS AND RESTRICTIONS FROM THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION TO HRD LAND HOLDINGS, INC., DATED DECEMBER 18, 2000, AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, IN LIBER 5313, FOLIO 203: BLANKET IN NATURE, NOT PLOTTABLE
   N. MINIMUM BUILDING SETBACK LINES, EASEMENTS, NOTATIONS AND OTHER MATTERS AS SHOWN ON THE FOLLOWING PLATS:
      i. COLUMBIA ROUTE 108 COMMERCIAL RECORD AT PLAT MDR NO. 14126 = SHOWN
      ii. COLUMBIA ROUTE 108 COMMERCIAL RECORD AT PLAT MDR NO. 13398 = SHOWN
      iii. GRANT OF EASEMENT FOR WATER, MAIN ETC., RECORDED AT PLAT MDR NO. 14076 = SHOWN
      iv. GRANT OF EASEMENT FOR WATER, MAIN ETC., RECORDED AT PLAT MDR NO. 14173 = SHOWN
      v. COLUMBIA ROUTE 108 COMMERCIAL, RECORDED AT PLAT MDR NO. 13399: OFFSITE, NOT PLOTTABLE
      vi. COLUMBIA ROUTE 108 COMMERCIAL, RECORDED AT PLAT MDR NO. 14821 = SHOWN
   O. SUBJECT TO TERMS, NOTES, RESTRICTIONS, ETC. CONTAINED ON PLAT M.D.R. NO. 14821: SHOWN (SAME AS 15 – iv ABOVE)
6. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
7. ELEVATIONS ARE BASED UPON NGVD 29 DATUM PER HOWARD COUNTY MONUMENT #37A3, ELEV.=385.63'.
8. PROPERTY IS LOCATED IN FLOOD HAZARD ZONE C (AREA OF MINIMAL FLOODING).
9. ASPHALT PAVEMENT AT SOUTH END OF SITE IS NOT AT FINAL GRADE.
10. VEHICULAR INGRESS/EGRESS TO ROUTE 108 IS RESTRICTED EXCEPT AS APPROVED BY HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING & M.S.H.A..

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	MK	7/9/02 DATE
CHIEF-DIVISION & LAND DEVELOPMENT		7/19/02 DATE
DIRECTOR		7/19/02 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. M.P.H. 7/17/02
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE
STATE OF MARYLAND ADAM J. VOLANTH No. 21342 PROFESSIONAL ENGINEER
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
MISS UTILITY CALL BEFORE YOU DIG
BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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

McDonald's

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OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 – AREA 1		PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

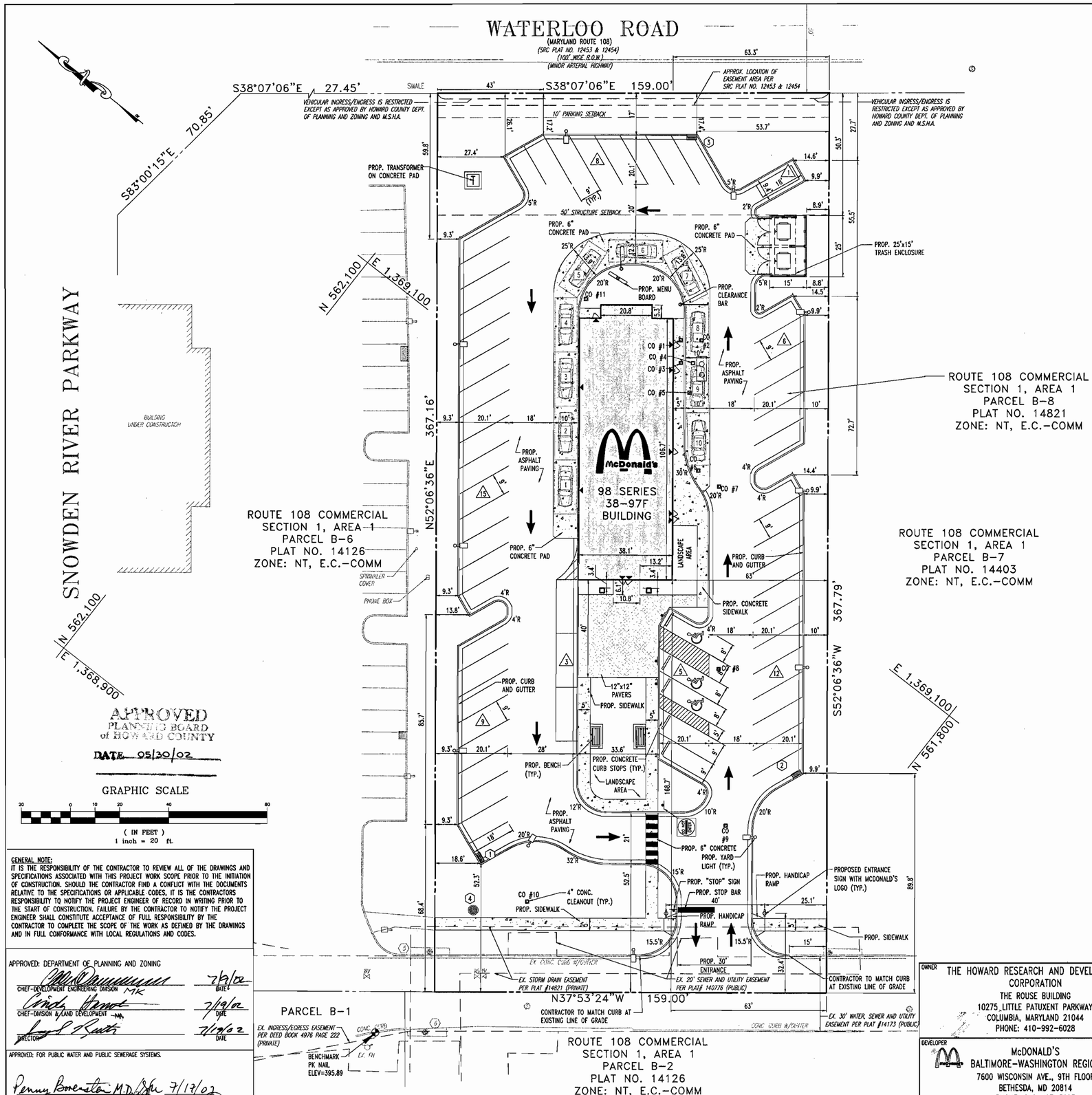
ADDRESS CHART

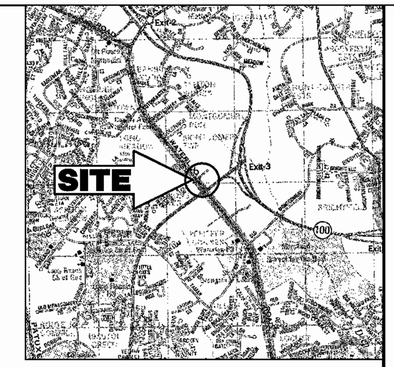
LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
EXISTING CONDITIONS PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		2 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			





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

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT NA	DATE
DIRECTOR	DATE 7/9/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D., M.P.H. 7/17/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

06/28/02
DATE
STATE OF MARYLAND
ADAM J. VOLANITH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

BOHLER ENGINEERING
PROFESSIONAL ENGINEERING SERVICES
810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7500 FAX: (410) 821-7987 | MD@bohlereng.com

McDonald's

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OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 – AREA 1		PARCEL B-8
PLAT/ OR L/F	BLOCK/	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

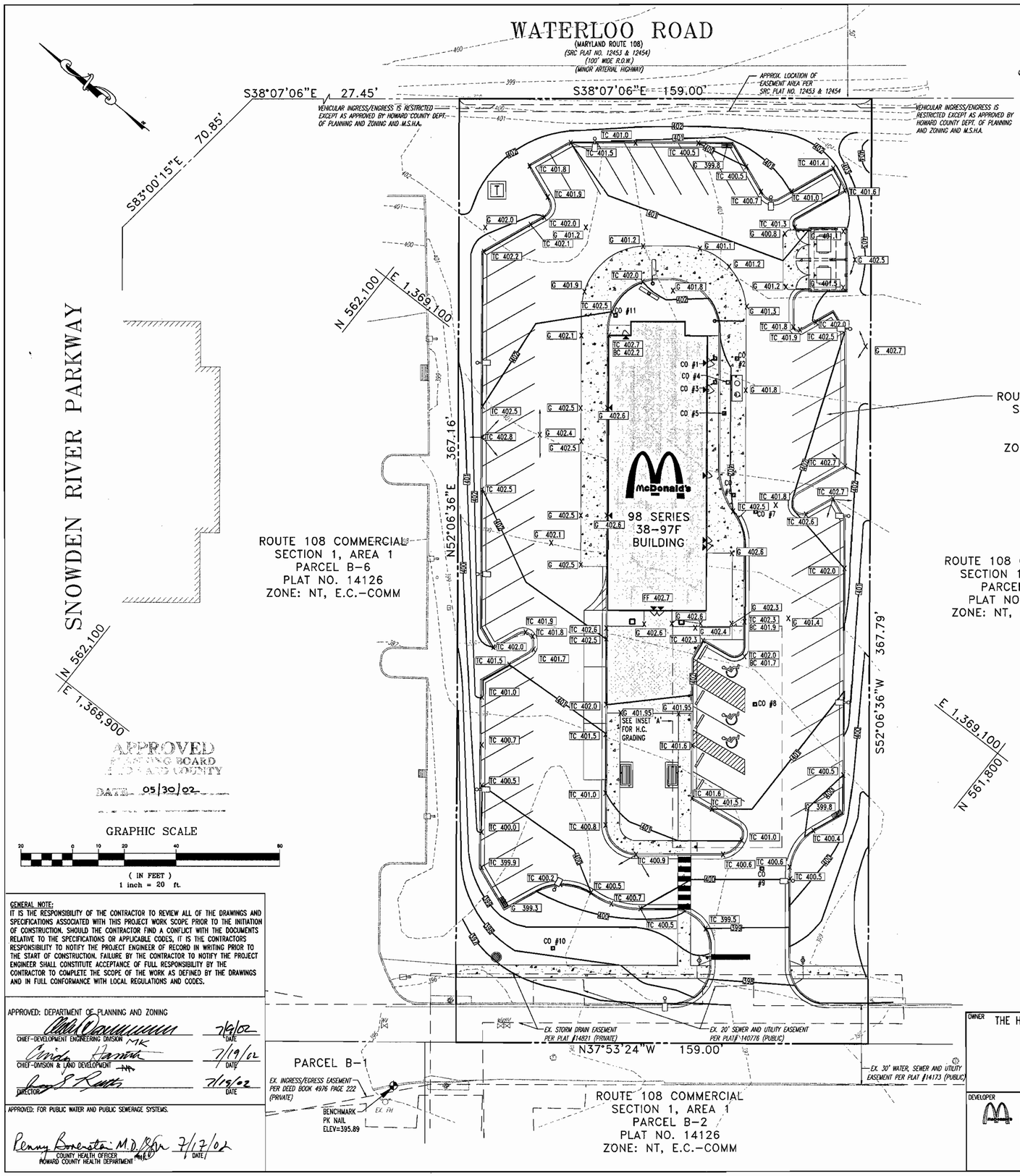
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD's CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
SITE LAYOUT PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		3 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			



APPROVED
PLANNING BOARD
HOWARD COUNTY
DATE 05/30/02

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

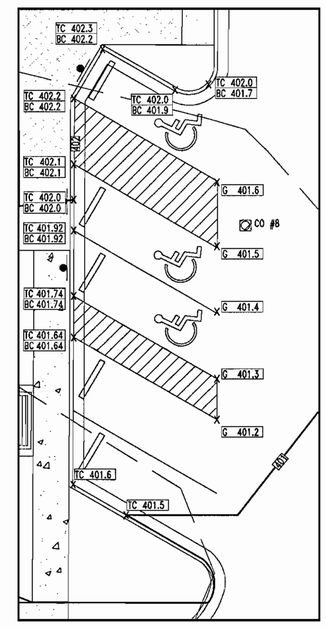
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/16/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. MPH 7/17/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

GRADING NOTES:

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



INSET 'A'
SCALE: 1"=10'

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/20/02
DATE
STATE OF MARYLAND
ADAM J. VOLANTH
No. 21342
REGISTERED PROFESSIONAL ENGINEER
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
MISS UTILITY ONE CALL BEFORE YOU DIG
BEFORE YOU DIG CALL 1-800-257-7777
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THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA	LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1	PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO. / ELECT. DISTR	CENSUS TRACT
14821	1	NT	37 / 6	6066.05
WATER CODE			SEWER CODE	
E-07			2780000	

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE:
McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
SITE GRADING PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'		PROJECT NO.: WD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		4 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
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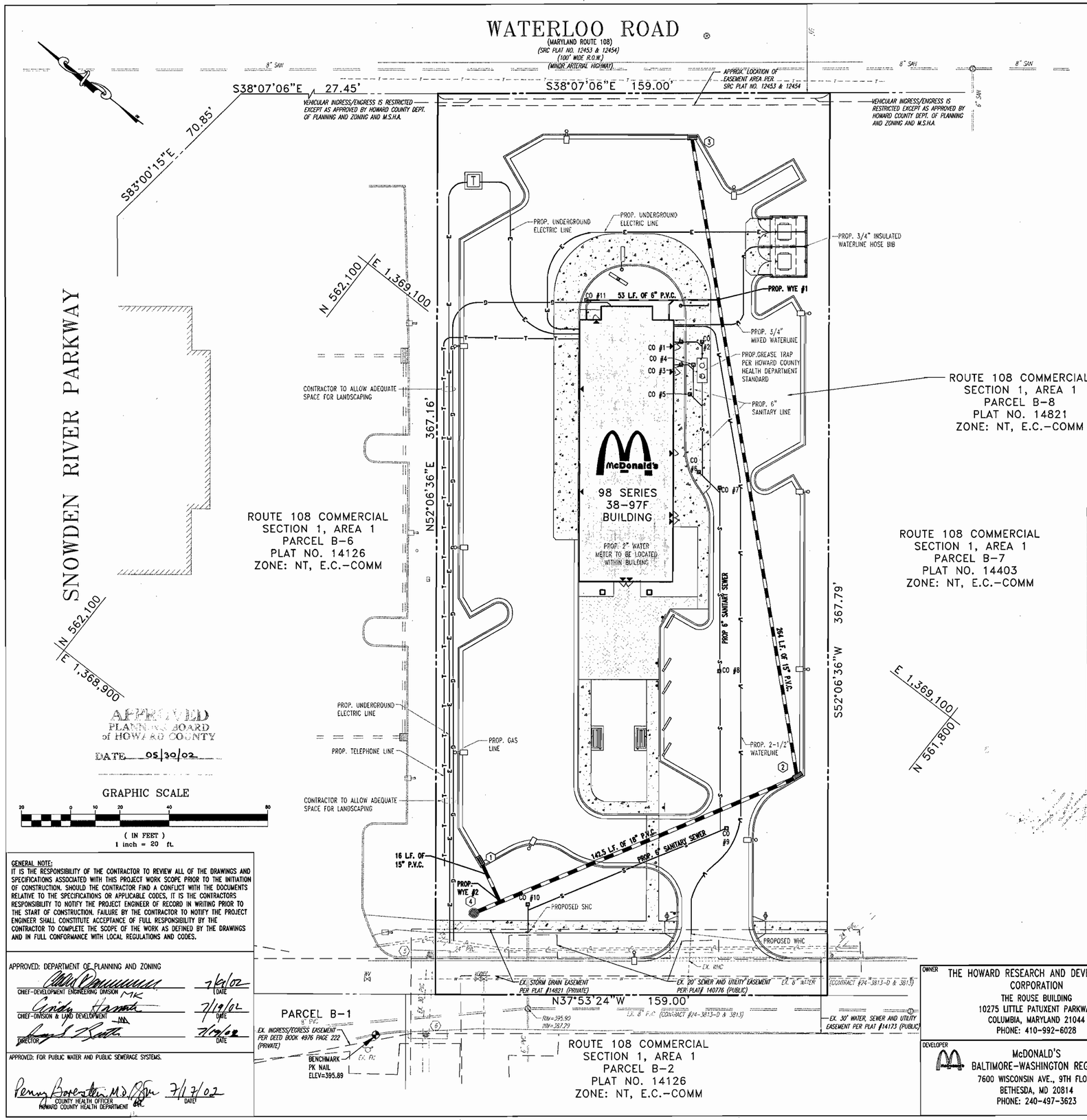

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

UTILITY NOTES:

1. ALL UTILITY POLE RELOCATIONS MUST BE COORDINATED WITH THE RESPECTIVE ELECTRIC COMPANY.
2. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICES CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST POINTS. CROSSINGS WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. A MINIMUM VERTICAL SEPARATION OF 12" SHALL BE MAINTAINED BETWEEN SANITARY SEWER LINES AND STORM LINES OR WATER LINES. IF THIS MINIMUM CLEARANCE CANNOT BE MAINTAINED. A CONCRETE ENCASEMENT SHALL BE PROVIDED.
4. EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND ALLOW FOR THEIR LOCATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DONE DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
5. ALL EXCAVATIONS THAT ARE DEEPER THAN 5 FEET SHOULD BE PROPERLY SLOPED OR OTHERWISE STRUCTURALLY RETAINED TO PROVIDED STABLE AND SAFE WORKING CONDITIONS. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS CALL FOR MINIMUM SLOPES OF 1H:1V. OSHA REQUIREMENTS MUST BE FOLLOWED AND ADEQUATE PROTECTION PROVIDED FOR WORKERS.
6. ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
7. ALL STORM DRAIN, WATER, SEWER AND PRODUCT PIPING UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
8. SANITARY CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE IDENTIFIED AS SANITARY CLEANOUTS, THREADED, AND CONTAIN COUNTERSUNK PLUGS.
9. WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
10. WATER SERVICE SHALL BE TYPE "K" COPPER TUBING. SANITARY SEWER PIPE SHALL BE SDR 35 PVC. CERTAIN SECTIONS OF THE SERVICES REQUIRE SPECIAL PIPE TYPES WHICH ARE NOTED ON THE PLAN.
11. WATER AND SEWER SERVICES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR FOR HORIZONTAL AND VERTICAL ALIGNMENT AND CONNECTIONS.
12. SANITARY SEWER HOUSE CONNECTION SHALL BE RUN FROM BUILDING TO PROP. SANITARY LINE AT NO LESS THAN 2.0% SLOPE. CONTRACTOR SHALL REFERENCE HOWARD COUNTY DETAIL S 2.11 FOR HOUSE CONNECTION.
13. ROOF DRAIN CONNECTION SHALL BE RUN FROM BUILDING TO PROP. STORM DRAIN AT NO LESS THAN 2.0% SLOPE.

CLEANOUT SCHEDULE

C/O NO.	SIZE	INV.	TOP ELEV.
1	6" SANITARY HOWARD COUNTY DETAIL S 3.21	397.4	402.7
2	6" SANITARY HOWARD COUNTY DETAIL S 3.21	397.3	401.8
3	6" SANITARY HOWARD COUNTY DETAIL S 3.21	397.1	402.13
4	6" SANITARY HOWARD COUNTY DETAIL S 3.21	397.0	402.13
5	6" SANITARY HOWARD COUNTY DETAIL S 3.21	396.79	402.1
6	6" SANITARY HOWARD COUNTY DETAIL S 3.21	396.4	402.0
7	6" SANITARY HOWARD COUNTY DETAIL S 3.21	396.2	401.7
8	6" SANITARY HOWARD COUNTY DETAIL S 3.21	394.7	401.4
9	6" SANITARY HOWARD COUNTY DETAIL S 3.21	392.0	399.8
10	6" SANITARY HOWARD COUNTY DETAIL S 3.21	388.5	398.2
11	6" ROOF DRAIN (SEE DETAIL ON SHEET 14)	---	402.2

STRUCTURE SCHEDULE

NO.	DESCRIPTION	INV. IN	INV. OUT	GRATE ELEV.
1	WR INLET STD. HOWARD COUNTY DETAIL SD-4.38	---	394.3	399.3
2	WR INLET STD. HOWARD COUNTY DETAIL SD-4.38	394.85	394.6	399.8
3	WR INLET STD. HOWARD COUNTY DETAIL SD-4.38	---	396.3	399.8
4	SD MANHOLE STD. HOWARD COUNTY DETAIL C-5.11	391.12	390.62	397.10
5	*EXISTING INLET*	*389.42*	*389.42*	*395.74*
6	*EXISTING INLET*	*387.75*	*388.85*	*395.80*

PIPE SCHEDULE

LENGTH	DESCRIPTION
282 L.F.	15" SDR 35 PVC PIPE
142.5 L.F.	18" SDR 35 PVC PIPE
300 L.F.	6" SDR 35 PVC PIPE
230 L.F.	2-1/2" TYPE 'K' COPPER PIPE

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/8/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE 7/17/02

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

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SDP-02-79

PERMIT INFORMATION CHART

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COLUMBIA ROUTE 108 COMMERCIAL	SECTION 1 - AREA 1	PARCEL B-8

PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
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WATER CODE: E-07 — SEWER CODE: 2780000

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD's CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
SITE UTILITY PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'	PROJECT NO.: MD015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER 5 OF 15	
CHECKED BY: A.J.V.	APPROVED: A.J.V.		

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
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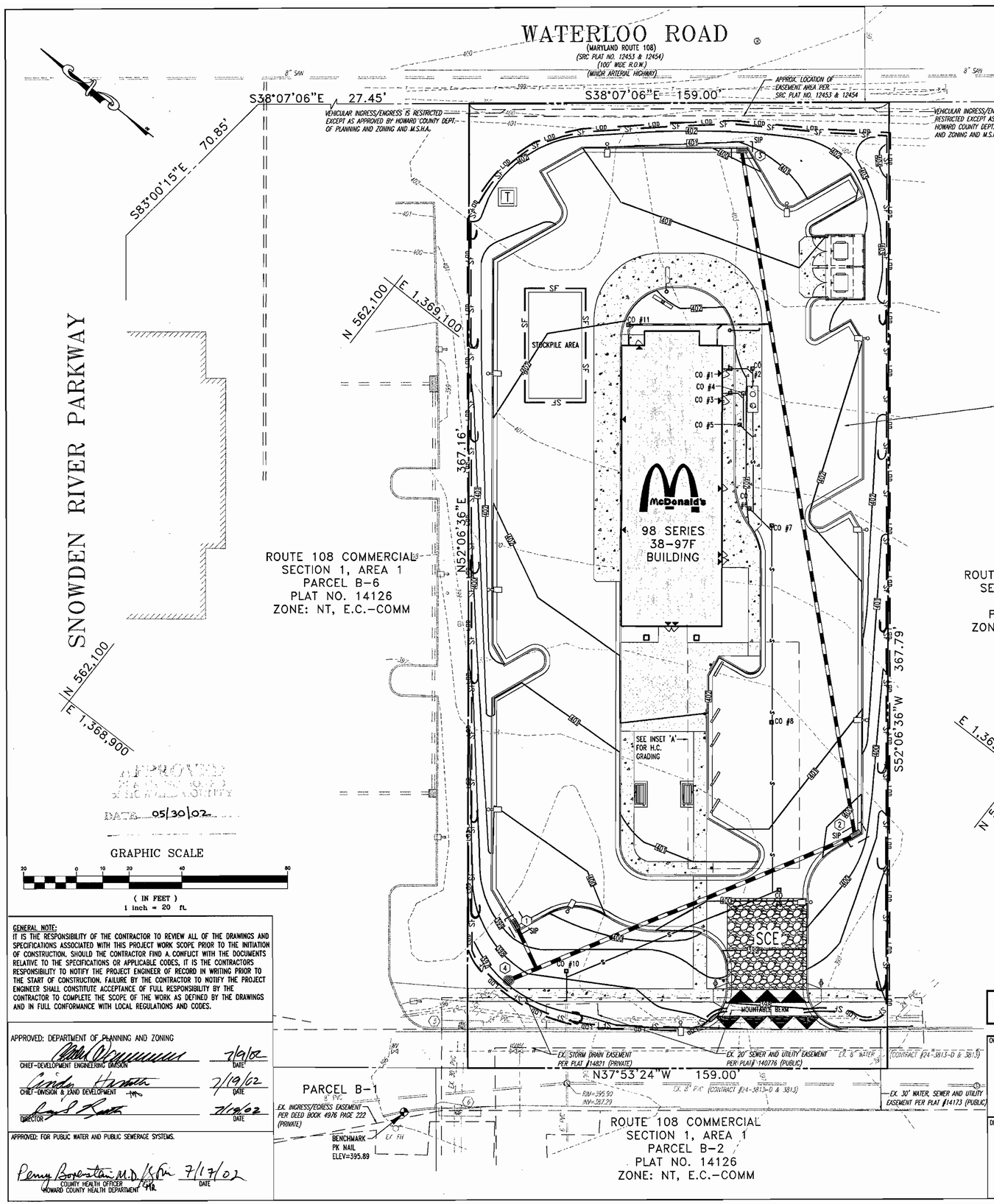

SEQUENCE OF CONSTRUCTION

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

ESTIMATE OF SEDIMENT CONTROL QUANTITIES

SILT FENCE: 1060 L.F.
STABILIZED CONSTRUCTION ENTRANCE: 1 EA.
INLET PROTECTION: 3 EA.

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

SITE ANALYSIS DATA

1. TOTAL SITE AREA: 1.34 AC.
2. TOTAL DISTURBED AREA: 1.34 AC.
3. TOTAL IMPERVIOUS AREA: 0.93 AC.
4. AREA TO VEGETATIVELY STABILIZED: 0.41 AC.
5. EARTHWORK:
   CUT: 520 C.Y.
   FILL: 2531 C.Y.

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

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LEGEND

- SF — SILT FENCE
- LOD — LIMIT OF DISTURBANCE
- 393 — EX. CONTOURS
- 795 — PROP. CONTOURS
- EX. STORM PIPES
- PROP. STORM PIPES
- MOUNTABLE BERMS
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- SIP — STANDARD INLET PROTECTION

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Myers 7/3/02
USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Robertson 7/3/02
HOWARD SCD 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."

6/28/02
SIGNATURE OF ENGINEER DATE
ADAM J. VOLANTH P.E.

DEVELOPER'S CERTIFICATE

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

Bharat Parikh 6/28/02
SIGNATURE OF DEVELOPER DATE

NOTES: THIS PLAN IS TO BE UTILIZED FOR EROSION AND SEDIMENT POLLUTION CONTROL PURPOSES ONLY ADDITIONAL NOTES ON SHEET 7.

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. for 7/17/02
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
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7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE
STATE OF MARYLAND ADAM J. VOLANTH No. 21342 PROFESSIONAL ENGINEER
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1		PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
EROSION AND SEDIMENT CONTROL PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'	PROJECT NO.: MD015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	6 OF 15	

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			

McDonald's®
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.
OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS:

1. CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA 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. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.

3. STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.

4. INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

5. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

6. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION.

SITE PREPARATION:

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

A. PRIOR TO SODDING, THE SURFACE SHALLBE 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 ANT 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 SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD AREA THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

SOD MAINTENANCE:

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

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

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

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

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 THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[signature] 7/9/02
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK — DATE

[signature] 7/19/02
CHIEF-DIVISION & LAND DEVELOPMENT — DATE

[signature] 7/19/02
DIRECTOR — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein MD. 7/17/02
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE

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 – 1.34 AC.
   - AREA DISTURBED – 1.34 AC.
   - AREA TO BE ROOFED OR PAVED – 0.93 AC.
   - AREA TO BE VEGETATIVELY STABILIZED – 0.41 AC.
   - TOTAL CUT – 520 CU. YDS.
   - TOTAL FILL – 2531 CU. YDS.
   - OFFSITE WASTE/BORROW LOCATION – BORROW 0 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.

TEMPORARY SEEDING NOTES

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

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

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

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

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

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-SCS 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 BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

iii. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS PER ACRE (200-400 LBS./1000 SQ. FT.) PRIOR TO PLACEMENT OF TOPSOIL. LIME SHALL BE DISTURBED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

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

IV. TOPSOIL APPLICATION

i. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" – 8" HIGHER IN ELEVATION.

iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" – 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

V. THESE TOPSOIL SPECIFICATIONS HAVE BEEN EDITED FROM THE 1994 EROSION AND SEDIMENT CONTROL STANDARDS TO FIT THIS PROJECT. IT IS STILL THE INTENTION TO FOLLOW THE REFERENCED 1994 EROSION AND SEDIMENT CONTROLS STANDARDS IN THEIR ENTIRETY.

PERMANENT SEEDING NOTES

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

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

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

1. PREFERRED – APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 AREAFORM FERTILIZER (9 LBS./1000 SQ. FT.)

2. ACCEPTABLE – APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF 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 FALT AREA. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GALS./1000 SQ. FT.) FOR ANCHORING.

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

30.0 DUST CONTROL

Definition

Controlling dust blowing and movement on construction sites and roads.

Purpose

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

Conditions Where Practice Applies

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

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 clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar 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 moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.

5. Barriers - Solid board fences, silt 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 times their height are effective in controlling soil blowing.

6. Calcium Chloride - Apply at rates that will keep surface moist. May need retreatment.

Permanent Methods

1. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.

2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.

3. Stone - Cover surface with crushed stone or coarse gravel.

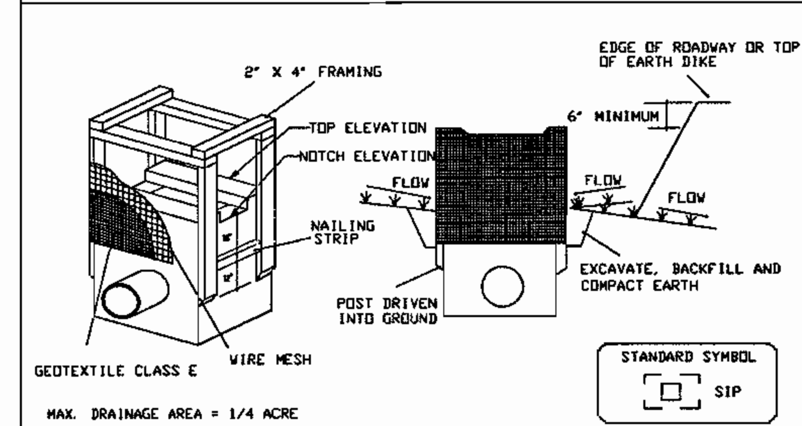
References

1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.

2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

H-30-1

DETAIL 23A - STANDARD INLET PROTECTION



Construction Specifications

1. Excavate completely around the inlet to a depth of 18" below the notch elevation.

2. 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.

3. 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.

4. Stretch the Geotextile Class E tightly over the wire mesh with the geotixtile 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.

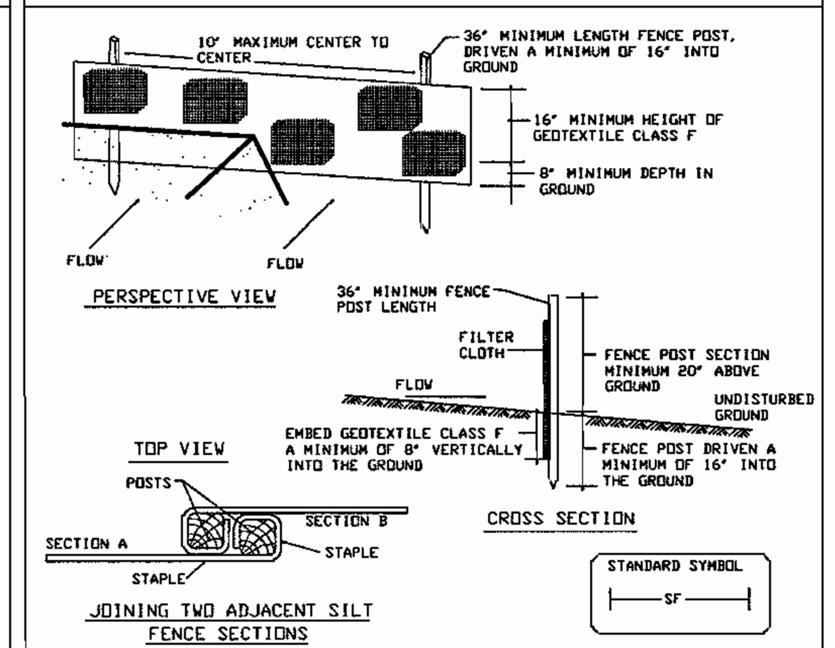
5. Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.

6. If the inlet is not in a sump, 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.

7. 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 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" 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 pond per linear foot.

2. 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:

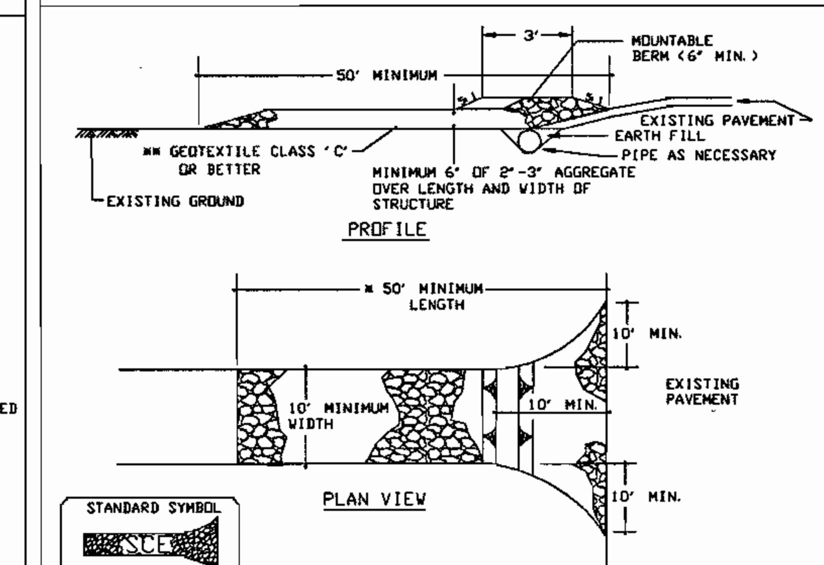
Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft²/ minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. 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 - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

1. Length - minimum of 50' (*30' for single residence lot).

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

3. 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.

4. 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.

5. 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.

6. 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

SILT FENCE

Silt Fence Design Criteria

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

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

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE

Construction Specification

1. Length - minimum of 50' (*30' for single residence lot).

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

3. 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.

4. 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.

5. 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.

6. 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 - 3A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

Jim Myers 7/3/02
USDA – NATURAL RESOURCES CONSERVATION SERVICE — DATE

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

John R Robertson 7/3/02
HOWARD SCD — 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."

[signature] 6/28/02
SIGNATURE OF ENGINEER
ADAM J. VOLANTH — DATE

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."

Bharat Tarikh 6/28/02
SIGNATURE OF DEVELOPER — DATE

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE:

STATE OF MARYLAND — ADAM J. VOLANTH — No. 21342 — REGISTERED — PROFESSIONAL ENGINEER

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY

MISS UTILITY — CALL BEFORE YOU DIG

BEFORE YOU DIG CALL
1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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

THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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

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ADDRESS	7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 – AREA 1		PARCEL B-8
PLAT# OR L/F: 14821	BLOCK#: 1	ZONING: NT	TAX MAP NO.: 37	ELECT. DISTR: 6	CENSUS TRACT: 6066.05
WATER CODE: E-07			SEWER CODE: 2780000		

ADDRESS CHART

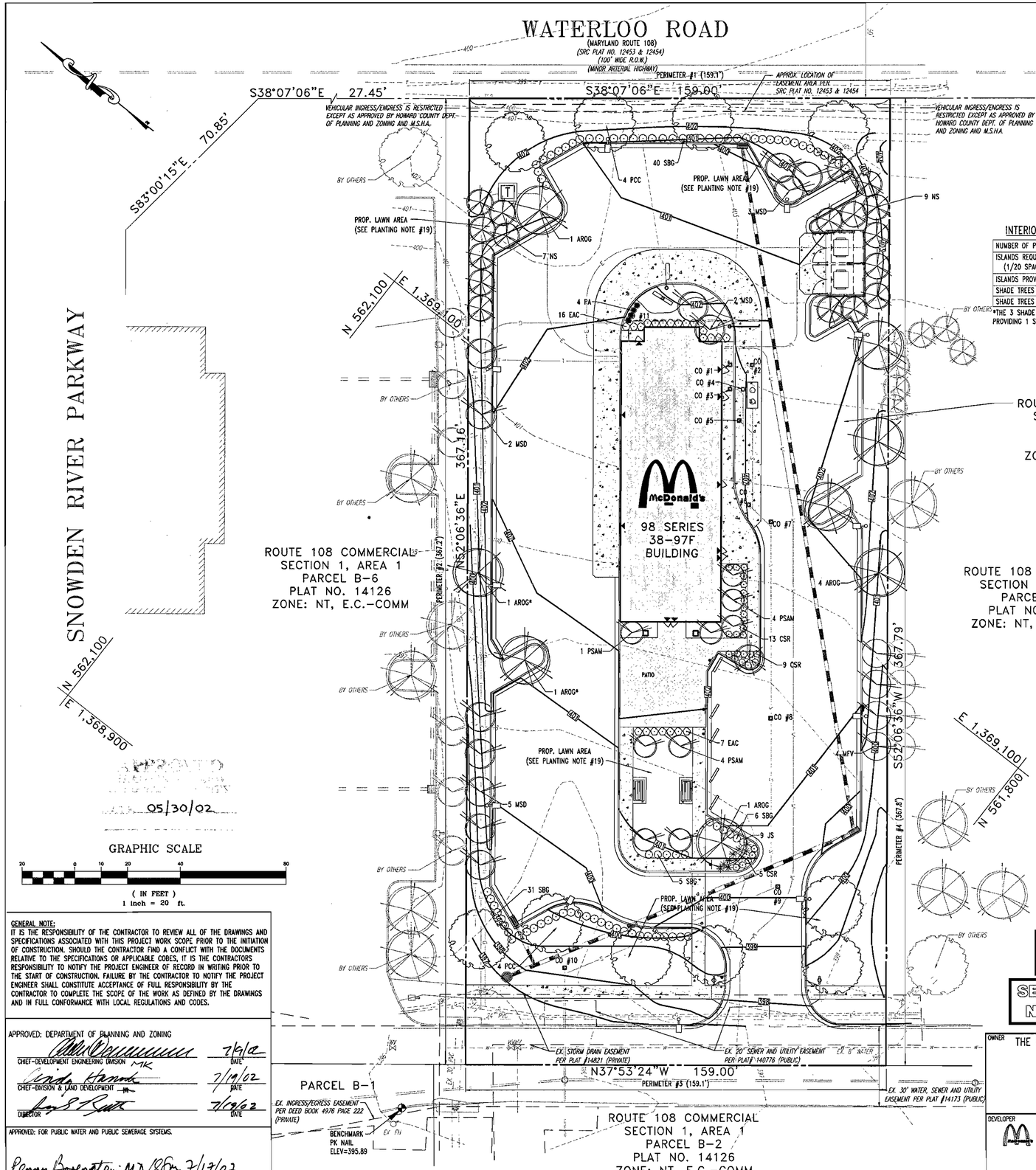
LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD's CORPORATION
8211 SNOWDEN RIVER PARKWWAY
HOWARD COUNTY, MARYLAND 21029
SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE	PROJECT NO.: MD015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	7 OF 15	

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			

SDP-02-79



PROFESSIONAL ENGINEER SEAL
05/30/02

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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 THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/9/02
DIRECTOR	DATE 7/9/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Rosenstein M.D. MPH 7/17/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

SCHEDULE B
INTERIOR PARKING LOT LANDSCAPING

NUMBER OF PARKING SPACES:	59
ISLANDS REQUIRED: (1/20 SPACES)	3
ISLANDS PROVIDED:	3
SHADE TREES REQUIRED:	3
SHADE TREES PROVIDED:	3*

*THE 3 SHADE TREE REDEVELOPMENT HAS BEEN MET BY PROVIDING 1 SHADE TREE AND 57 SHRUBS ON THE 3 ISLANDS.

LANDSCAPE SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
SHADE TREES						
AROG	17	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3-3 1/2" CAL.	AS SHOWN	B+B
PCC	11	PYRUS CALLERYANA 'CLEVELAND SELECT'	CLEVELAND SELECT	3-3 1/2" CAL.	40' O.C.	B+B
	28					
ORNAMENTAL TREES						
PSAM	9	PRUNUS SERRULATA 'AMANOGAWA'	AMANOGAWA CHERRY	2-2 1/2" CAL.	AS SHOWN	B+B
MSD	18	MALUS X 'SNOW DRIFT'	SNOWDRIFT CRABAPPLE	2-2 1/2" CAL.	AS SHOWN	B+B
MFB	8	MALUS FLORIBUNDA 'VAN HOUTTE'	FLOWERING CRABAPPLE	2-2 1/2" CAL.	AS SHOWN	B+B
	35					
EVERGREEN SHRUBS						
NS	24	NELLIE STEVENS HOLLY	NELLIE STEVENS HOLLY	5-6'	4' O.C.	B+B
DECIDUOUS SHRUBS						
EAC	23	EUONYMUS ALATUS 'COMPACTUS'	DWARF WINGED EUONYMUS	30-36"	4' O.C.	B+B
SBG	82	SPIREA X BUMALDA 'GOLDFLAME'	GOLD FLAME SPIREA	24-30"	3' OC..	#3 CAN
	105					
GROUND COVER						
CSR	28	COTONEASTER SALICIFOLIUS 'REPENS'	WILLOWLEAF COTONEASTER	15-18" SPRD.	3' O.C.	#2 CAN
JS	10	JUNIPERUS CHINENSIS VAR. SARGENTII	SARGENT JUNIPER	15-18" SPRD.	3' O.C.	#3 CAN
	38					
PERENNIALS						
PA	5	PENNISETUM ALOPECUROIDES	DWARF FOUNTAIN GRASS	2 GAL.	2.5' O.C.	CONTAINER

NOTE: IF ANY DISCREPENCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

*PLANT SIZES ARE IN COMPLIANCE WITH ROUTE 108 (COMMERCIAL CENTER) RESTAURANT DESIGN CRITERIA

SCHEDULE A
PERIMETER LANDSCAPE EDGE

PERIMETER #	1	2	3	4	5
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	DUMPSTER AREA
LANDSCAPE TYPE	E	A	B	A	D
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	159.1'	367.2'	159.1'	367.8'	25.0'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED					
SHADE TREES	1:40' OR 4	1:60' OR 6	1:50' OR 3	1:60 OR 6	1:10
EVERGREEN TREES	0	0	1:40' OR 4	0	0
SHRUBS	1:4' OR 40 SHRUBS	0	0	0	0
NUMBER OF PLANTS PROVIDED					
SHADE TREES	4 (PCR)	1 (PCC), 3 (AROG)	4 (PCC)	1 (PCC), 3 AROG	7 (NS)
EVERGREEN TREES	0	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	7 (MSD)	0	4 (MFV)	0
SHRUBS (10:1 SUBSTITUTION)	30 (PCC), 10 (SBG)	0	0	0	0
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	NO SUBSTITUTIONS	NO SUBSTITUTIONS	SEE #1 BELOW	SEE #1 BELOW	NO SUBSTITUTIONS

SUBSTITUTIONS
#1: 2 ORNAMENTAL TREES TO REPLACE 1 SHADE TREE

NOTE:
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE NEW TOWN ALTERNATIVE COMPLIANCE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUEL.

LANDSCAPE SURETY IN THE AMOUNT OF $7,200.00 SHALL BE POSTED AS A PART OF THE GRADING PERMIT.

SDP-02-79

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

SEE DETAIL SHEET FOR LANDSCAPING NOTES, SPECIFICATIONS, & DETAILS.

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
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DEVELOPER
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7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
BEFORE YOU DIG CALL 1-800-257-7777 PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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PROFESSIONAL ENGINEERING SERVICES
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ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1		PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
LANDSCAPE PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		8 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			

PLANTING NOTES:

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

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

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

ACER RUBRUM	POPULUS VARIETIES
BETULA VARIETIES	PRUNUS VARIETIES
CARPINUS VARIETIES	PYRUS VARIETIES
CRATEGUS VARIETIES	QUERCUS VARIETIES
KOELREUTERIA	SALIX WEEPING VARIETIES
LIQUID AMBER STYRACIFLUA	TILIA TOMENTOSA
LIRODENDRON TULIPIFERA	ZELKOVA VARIETIES
PLATANUS ACERFOLIA	

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

LANDSCAPE MAINTENANCE MANAGEMENT PROGRAM:

1. GENERAL:
   A. ALL PLANTING AREAS (INCLUDING LAWNS, BUFFERS, PARKING LOTS) SHALL BE PERIODICALLY INSPECTED A MINIMUM OF ONCE PER MONTH; EVERY 2 WEEKS DURING THE GROWING SEASON OR AFTER EACH MOWING SESSION. A GENERAL FALL CLEAN-UP SHALL BE SCHEDULED EACH YEAR.
   B. REMOVE ALL UNDESIRABLE LITTER, DEBRIS, AND WEEDS.
   C. MAINTAIN A MINIMUM OF A 2 INCH DEPTH OF ORGANIC HARDWOOD MULCH OR EQUIVALENT ON ALL PLANTING BEDS. ADJACENT LAWN AREAS SHOULD BE EDGED TO MAINTAIN A NEAT, DISTINCT BORDER.
2. IRRIGATION: (IF APPLICABLE)
   A. AUTOMATIC SPRINKLERS SHOULD BE CLEANED OUT AND TURNED OFF IN THE FALL PRIOR TO THE FIRST FROST, AND TESTED AND TURNED ON IN SPRING.
   B. EVALUATE SUCCESS OF IRRIGATION SYSTEM AND MODIFY AS NECESSARY.

      WATER REQUIREMENTS:

      NEW TURF – KEEP MOIST UNTIL ALL SEED GERMINATES AND BECOMES AN ESTABLISHED STAND OF TURF.

      EXISTING TURF – DURING DRY PERIODS, WATER TWICE A WEEK FOR 20 MINUTES AT A TIME; OR SET IRRIGATION SYSTEM FOR COVERAGE OF 1"-2" OF WATER PER WEEK.
3. SEASONAL FLOWERS:
   A. ANNUAL FLOWER BEDS SHALL BE PERIODICALLY MULCHED AND THE SOIL AMENDED ANNUALLY. NEW PLANTINGS SHALL BE PROVIDED IN MAY OF EACH YEAR. DURING GROWING SEASON, ALL BEDS SHALL RECEIVE PERIODIC INSPECTION, (AS STATED IN NOTE #1) IRRIGATION, AND WEEDING TO MAINTAIN A NEAT APPEARANCE.
4. TURF:
   A. LAWN AREAS SHALL NOT EXCEED A HEIGHT OF 4 INCHES. APPROXIMATELY 12 TO 15 MOWINGS PER YEAR WILL BE REQUIRED.
   B. FERTILIZER AND SOIL AMENDMENTS SHOULD BE ADDED AS NECESSARY AND/OR ON A SEASONAL BASIS. FERTILIZER IS OPTIMALLY APPLIED TO LAWN AND TURF AREAS THREE TIMES PER SEASON. TIMING, FREQUENCY AND RATE OF APPLICATION SHOULD BE ADJUSTED ACCORDING TO WEATHER AND HORTICULTURAL AND SOIL TEST CONDITIONS FOR EACH SPECIFIC SITE. FERTILIZER SHOULD BE APPLIED BY ACCEPTED METHODS ONLY. SAFETY SHOULD ALWAYS BE OF PRIME CONSIDERATION. CARE SHOULD BE TAKEN NOT TO APPLY FERTILIZER WHEN GROUND IS WET, UNDER EXTREME STRESS, OR DURING WINDY CONDITIONS.
   C. SOIL AMENDMENTS SUCH AS LIME, GYPSUM, OR PEAT MOSS MAY HAVE TO BE ADDED TO THE SOILS OF LAWNS, TURF OR PLANTING AREAS PERIODICALLY. THE NEED FOR SUCH SOIL AMENDMENTS SHOULD BE ANALYZED DURING THE PERIODIC INSPECTIONS AND IN CONJUNCTION WITH A SOIL TEST.
   D. SOIL AMENDMENTS SHOULD BE APPLIED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS OR BASED UPON SOIL TEST RESULTS.
      – APPLY A 3-1-2 (21-7-14, 10-4-6, OR 24-4-8) 50% ORGANIC FERTILIZER TWICE A YEAR BETWEEN MARCH 15 TO APRIL 15 AND SEPTEMBER 1 TO OCTOBER 1. IF NECESSARY TWO ADDITIONAL APPLICATIONS MAY BE MADE IN MAY AND NOVEMBER.
      – APPLY LIME AND OTHER SOIL AMENDMENTS ONCE A YEAR IN MARCH.

      DO NOT APPLY FERTILIZER OR SOIL AMENDMENTS WHILE TURF IS WET, UNDER EXTREME STRESS, WHEN CHILDREN ARE PRESENT, OR IN WINDY CONDITIONS.
5. PRUNING:
   A. REMOVAL OF DEAD, DISEASED, INSECT INFESTED OR WEAK WOOD SHALL TAKE PLACE IN DORMANT SEASON, OR AFTER FLOWERING. EXCESSIVE SHOOTS AND SUCKERS SHALL BE REMOVED.
   B. SHRUB MATERIAL USED AS A SCREEN SHOULD BE PRUNED AS A MASS TO ENHANCE THEIR NATURAL FORM. HEDGES SHOULD BE PRUNED TO MAINTAIN A TRAPEZOIDAL FORM.
   C. ROOT PRUNING OF TREES ADJACENT TO CURBS OR SIDEWALKS SHOULD OCCUR DURING PERIODIC INSPECTION WITH KNOWLEDGE OF MOST RECENT PRUNING. NO MORE THAN 1/3 OF ROOT SYSTEM SHOULD BE PRUNED DURING A YEAR.
6. INSECT AND DISEASE CONTROL:
   A. THE CONTROL OF INSECTS AND DISEASE ASSOCIATED WITH ALL PLANTING AREAS SHOULD ALWAYS BE A MAINTENANCE PRIORITY. ALL PLANTINGS, INCLUDING EXISTING MATURE TREES, SHOULD BE PERIODICALLY INSPECTED FOR INSECT OR DISEASE INFESTATION. METHODS UTILIZED TO CONTROL INSECT AND DISEASE MAY RANGE FROM SPRAYING AND PRUNING TO PLANT REMOVAL. WHATEVER METHOD IS UTILIZED, SAFETY AND CONTROL SHOULD ALWAYS BE OF PRIME CONCERN. CERTIFIED AND TRAINED PERSONNEL SHOULD ALWAYS PERFORM THIS TASK.
7. RENOVATION:

   RENOVATION INCLUDES THE RESEEDING OR REPLANTING OF LANDSCAPE AREAS DAMAGED, DESTROYED OR FAILING DUE TO INSECTS, DISEASE, WEATHER OR PHYSICAL DAMAGE.

   A. LAWN:

      ALL AREAS WHERE SOIL HAS BEEN EXPOSED SHOULD BE RENOVATED DURING THE NEXT PLANTING SEASON. PROPER HORTICULTURAL AND SOIL EROSION PREVENTION METHODS SHOULD BE UTILIZED. IF SOIL EROSION HAS OCCURRED, THE AREA SHOULD BE REPAIRED. A SEED MIXTURE COMPATIBLE TO EXISTING PLANTINGS AND CONDITIONS SHOULD ALWAYS BE UTILIZED.

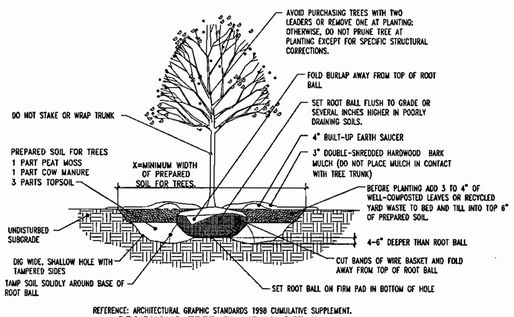
   B. PLANTINGS:

      ALL PLANTINGS WHICH ARE DAMAGED OR DESTROYED SHOULD BE REPLACED DURING THE NEXT PLANTING SEASON. A FAILING, DAMAGED OR DESTROYED LANDSCAPE SCREEN OR BUFFER MUST BE RENOVATED OR REPLACED WITHIN A REASONABLE AMOUNT OF TIME BUT NOT TO EXCEED THE SUBSEQUENT GROWING SEASON.
8. SITE AMENITIES:
   A. BENCHES, PATHS, BICYCLE RACKS, TRASH RECEPTACLES AND SIGNS SHOULD BE INSPECTED AT LEAST TWICE A YEAR, MARCH AND AUGUST, TO DETERMINE THEIR CONDITION. ANY DAMAGED, WORN OR UNSAFE CONDITION SHOULD BE RECTIFIED IMMEDIATELY.
9. PAVED SURFACES:

   ALL PAVED SURFACES, CONCRETE SIDEWALKS, ASPHALT PAVEMENT AND DECORATIVE PAVEMENT MUST BE INSPECTED ON A REGULAR BASIS, A MINIMUM OF ONCE PER MONTH.

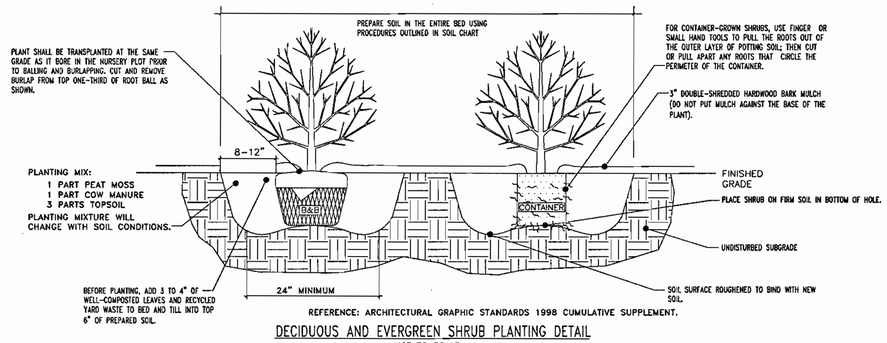
   ANY TRASH, STAINS, OR OBSTRUCTIONS MUST BE REMOVED IMMEDIATELY. PAVEMENTS SHOULD BE INSPECTED FOR DAMAGE, CRACKS, POT HOLES, AND RETURNED TO THEIR ORIGINAL CONDITION. SNOW SHOULD BE REMOVED DURING AND FOLLOWING EVERY STORM. SIDEWALKS AND PARKING AREAS MUST BE KEPT CLEAR OF ICE AND SNOW DURING BUSINESS HOURS.

NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM ROOT BALL
3. PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
4. THOUROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
5. THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERABLE TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.



REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL
NOT TO SCALE

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/9/02
CHIEF-DIVISION OF LAND DEVELOPMENT	DATE 7/9/02
DIRECTOR	DATE 7/9/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. MPH 7/17/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

GENERAL RANGE OF SOIL MODIFICATIONS & VOLUMES FOR VARIOUS SOIL CONDITIONS

POST-CONSTRUCTION SOIL CONDITION	MIN./ WIDTH PREPARED SOIL FOR TREES (X)	TYPE OF PREPARATION
GOOD SOIL (NOT PREVIOUSLY GRADED OR COMPACTED, TOPSOIL LAYER INTACT)	6 FT. OR TWICE THE WIDTH OF THE ROOT BALL, WHICHEVER IS GREATER	LOOSEN THE EXISTING SOILS TO THE WIDTHS AND DEPTHS SHOWN IN DETAILS ABOVE.
COMPACTED SOIL (NOT PREVIOUSLY GRADED, TOPSOIL LAYER DISTURBED BUT NOT ELIMINATED)	15 FT.	LOOSEN THE EXISTING SOILS TO THE WIDTHS AND DEPTHS SHOWN IN DETAILS ABOVE; ADD COMPOSTED ORGANIC CONTENT UP TO 5% DRY WEIGHT.
GRADED SUBSOILS AND CLEAN FILLS WITH CLAY CONTENT BETWEEN 5 & 35%	20 FT.	MINIMUM TREATMENT: LOOSEN EXISTING SOIL TO WIDTHS AND DEPTHS SHOWN, ADD COMPOSTED ORGANIC MATTER TO BRING ORGANIC CONTENT UP TO 5% DRY WEIGHT. : OPTIMUM TREATMENT : REMOVE TOP 8-10 IN. OR THE EXISTING SOILS TO THE WIDTHS AND DEPTHS SHOWN, ADD 8-10 IN. OF LOAM TOPSOIL.
POOR QUALITY FILLS, HEAVY CLAY SOILS, SOILS CONTAMINATED WITH RUBBLE OR TOXIC MATERIAL	20 FT.	REMOVE EXISTING SOILS TO THE WIDTHS AND DEPTHS CONTAMINATED WITH RUBBLE OR TOXIC MATERIAL

REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

STATE OF MARYLAND — ADAM J. VOLANTH — NO. 21342 — REGISTERED PROFESSIONAL ENGINEER
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

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MISS UTILITY — CALL BEFORE YOU DIG
BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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THE CONTRACTOR TO CALL M/SS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

BOHLER ENGINEERING
PROFESSIONAL ENGINEERS & SERVICES
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SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL	SECTION 1 - AREA 1	PARCEL B-8

PLAT/ OR L/F	BLOCK/	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05

WATER CODE	SEWER CODE
E-07	2780000

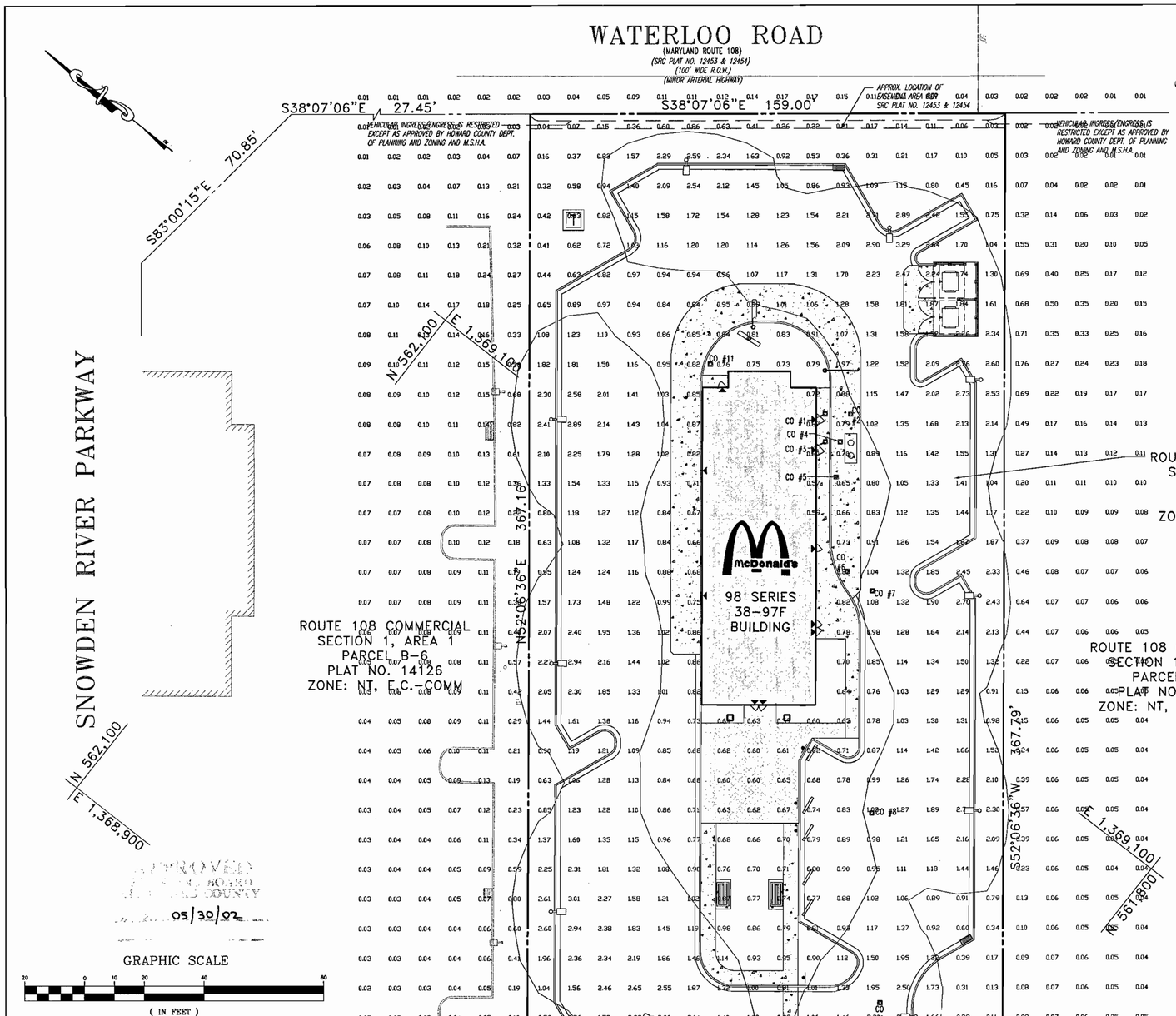
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
LANDSCAPE NOTES AND DETAILS

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE	PROJECT NO.: M0015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	9 OF 15	

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			



APPROVED
HOWARD COUNTY
BOARD OF APPEALS
05/30/02

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION OF LAND DEVELOPMENT	DATE 7/9/02
DIRECTOR	DATE 7/12/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

Penny Borenstein M.D. MPH 7/17/02
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

AR4
ET4

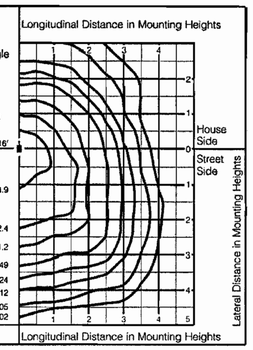
250 Watt
Metal Halide
BT28, Clear, Pin-Oriented, Mogul Base
23,000 Initial Horizontal Lumens
18,000 Mean Horizontal Lumens
ANSI Code M58

See p. 49 for same fixture with Houseside Shield Option.

AR ET

Catalog Nos: **1A/AR4/250MH**
1A/ET4/250MH
Distribution: **Type IV, Cutoff**
I.T.L. Test No: **35923**
Single

Maintained Horizontal Footcandles at Listed Mounting Heights				Initial Horizontal Footcandles at Listed Mounting Heights			
30'	25'	20'	16'	30'	25'	20'	16'
.97	1.4	2.2	3.4	1.4	2	3.1	4.9
.48	.70	1.1	1.7	.69	1	1.6	2.4
.24	.35	.55	.85	.35	.5	.78	1.2
.10	.14	.22	.34	.14	.2	.31	.49
.05	.07	.11	.17	.07	.1	.16	.24
.02	.04	.06	.09	.03	.06	.08	.12
.01	.01	.02	.03	.01	.02	.03	.05
.00	.01	.01	.02	.01	.01	.02	.02
Fc initial x **.70**				Fc initial			



PROPOSED LIGHTING

1. BLACK, KIM ET ENTABLATURE SERIES MOUNTED ON BLACK, ROUND 25' TALL, NON-TAPER POLES,

AVERAGE FOOTCANDLES = 0.93
MAXIMUM FOOTCANDLES = 4.22
MINIMUM FOOTCANDLES = 0

2. THESE PHOTOMETRIC CALCULATIONS DO NOT INCLUDE ILLUMINATION FROM BUILDING MAOUNTED LIGHT FIXTURES.

STATISTICAL AREA SUMMARY			
LABEL	AVG	MAX	MIN
PARKING LOT	<+> 1.0	3.3	1.0

LUMINAIRE SCHEDULE						
TYP	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF	QTY
SI	KIM 250W MH III (1) "ET" ET3-250W	(1) M-250/U-HOR	19500	25' STD.	0.68	10

NOTE: THIS PLAN IS TO BE UTILIZED FOR LIGHTING PURPOSES ONLY. ADDITIONAL DETAILS ON SHEET 14.

SDP-02-79

PERMIT INFORMATION CHART					
SUBDIVISION NAME: COLUMBIA ROUTE 108 COMMERCIAL			SECTION/AREA: SECTION 1 - AREA 1		LOT/PARCEL NO.: PARCEL B-8
PLAT # OR L/F: 14821	BLOCK #: 1	ZONING: NT	TAX MAP NO.: 37	ELECT. DISTR: 6	CENSUS TRACT: 6066.05
WATER CODE: E-07			SEWER CODE: 2780000		

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE: McDONALD's CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
SITE LIGHTING PLAN

DESIGN BY: B.A.M.	SCALE: 1" = 20'		PROJECT NO.: M0015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		10 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	R.L.B.
4			

OWNER
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THE ROUSE BUILDING
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COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE
STATE OF MARYLAND
ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

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THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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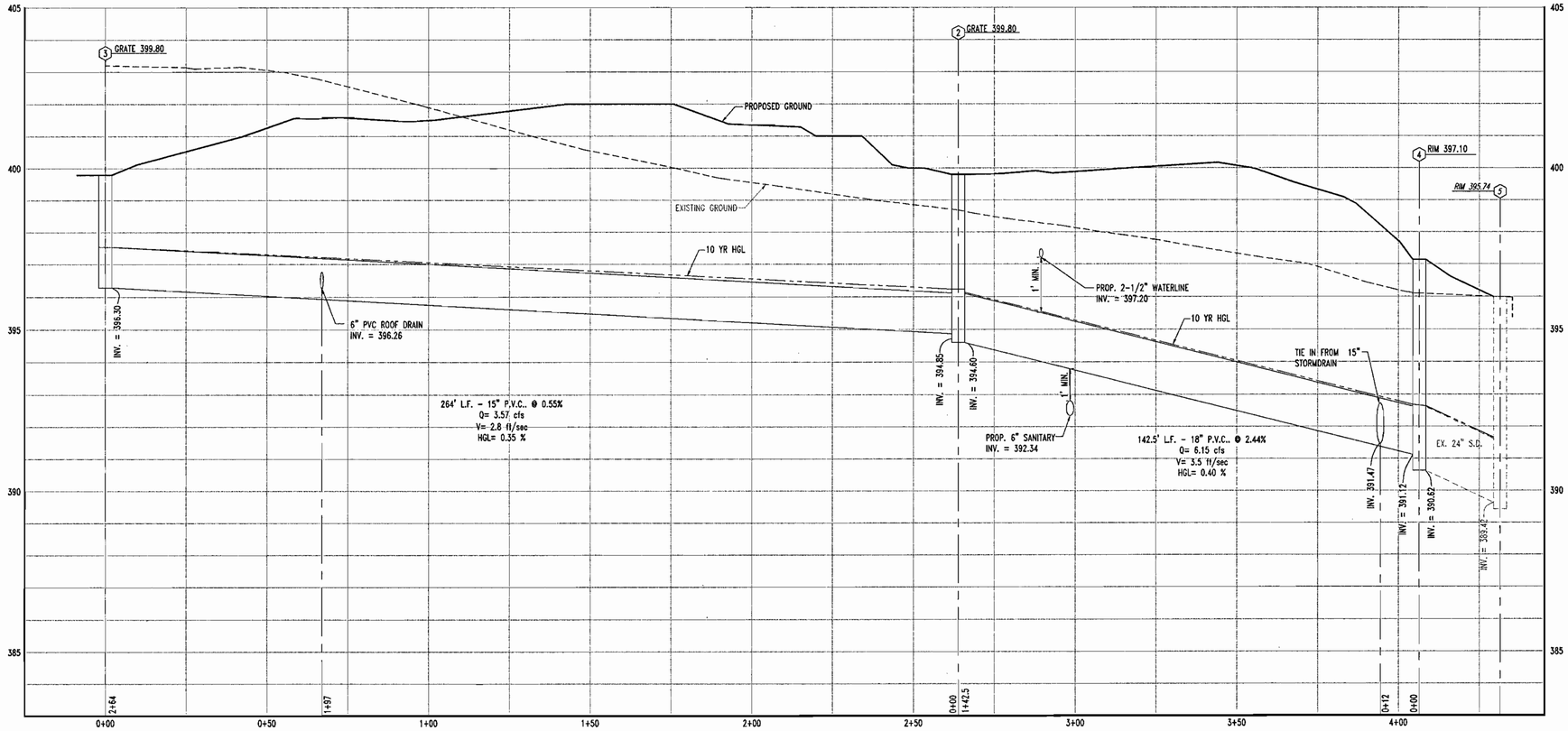
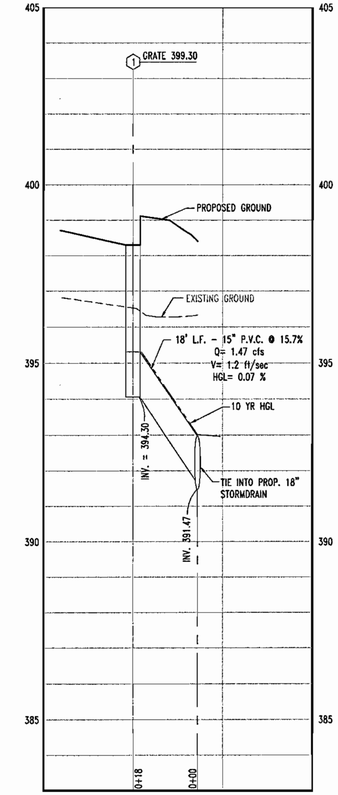


STORMDRAIN PROFILE

HORZ. SCALE - 1" = 20'
VERT. SCALE - 1" = 2'



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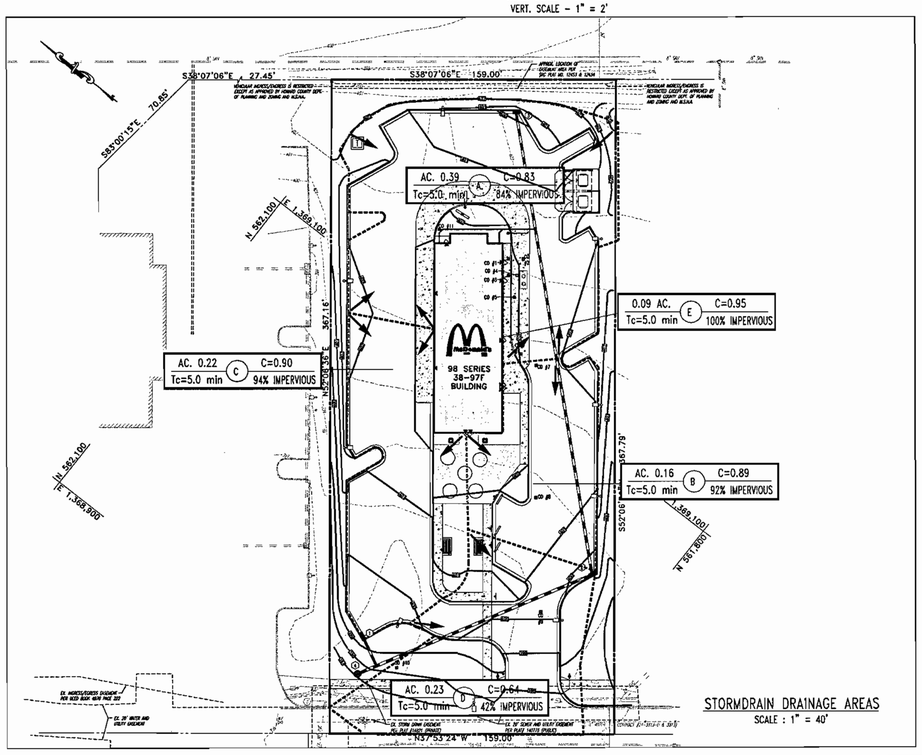

STORMDRAIN DRAINAGE AREAS

SCALE : 1" = 40'

DATE 05/30/02

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION & ZAND DEVELOPMENT NA	DATE 7/9/02
DIRECTOR	DATE 7/9/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE 7/17/02

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PHONE: 410-992-6028

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BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

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PROFESSIONAL ENGINEER NO. 21342

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SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1		PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

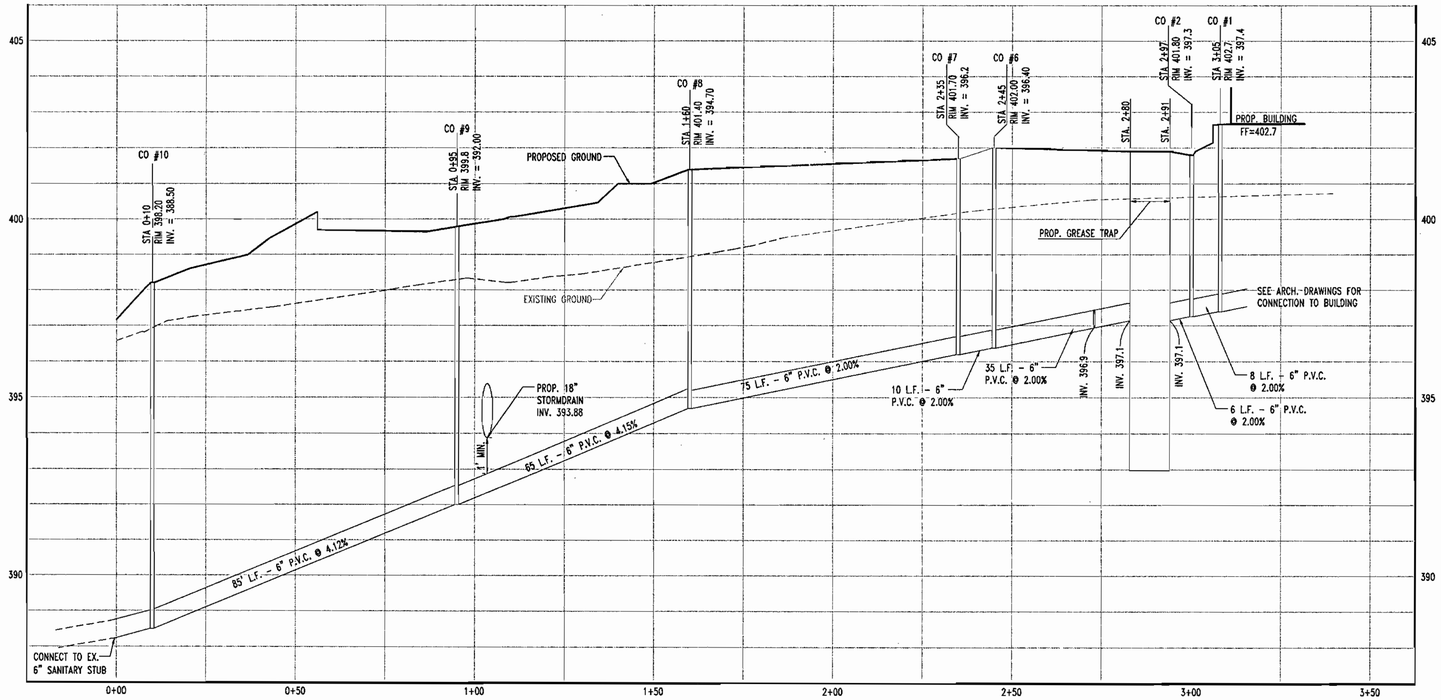
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

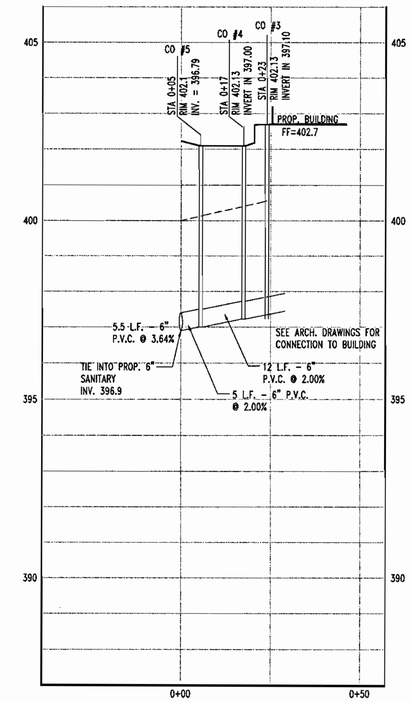
TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
UTILITY PROFILES AND DRAINAGE AREA MAP

DESIGN BY: B.A.M.	SCALE: AS NOTED	PROJECT NO.: MD015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER	
CHECKED BY: A.J.V.	APPROVED: A.J.V.	11 OF 15	

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/16/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			



SANITARY PROFILE
HORZ. SCALE - 1" = 20'
VERT. SCALE - 1" = 2'



SANITARY PROFILE
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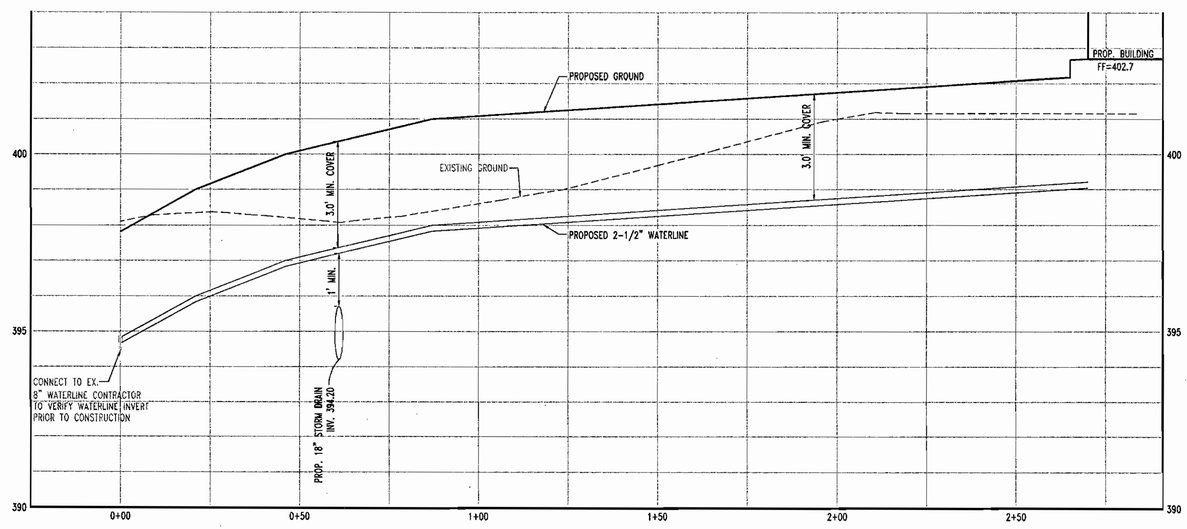
VERT. SCALE - 1" = 2'



WATERLINE PROFILE
HORZ. SCALE - 1" = 20'
VERT. SCALE - 1" = 2'

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 05/30/02

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION OF LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 7/17/02
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
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6/28/02
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SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA		LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1		PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	6066.05
WATER CODE			SEWER CODE		
E-07			2780000		

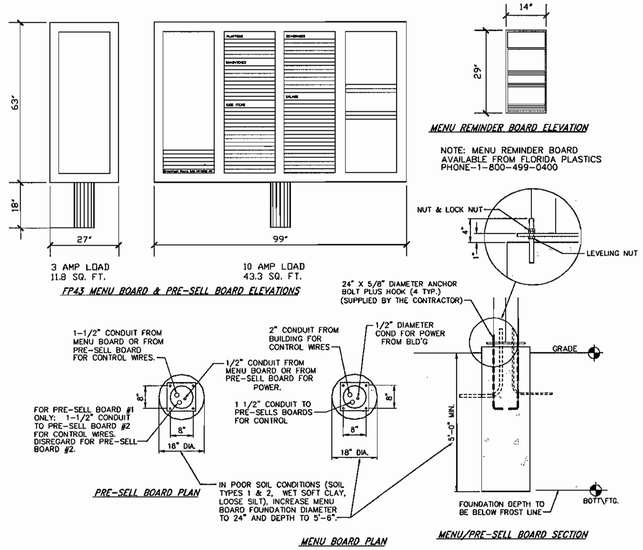
ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE:
McDONALD's CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
UTILITY PROFILES

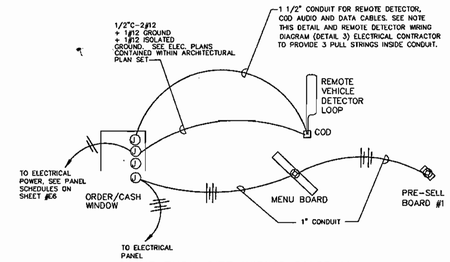
DESIGN BY: B.A.M.	SCALE: AS NOTED		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		12 OF 15

REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			



MENU/PRE-SELL BOARD DETAILS

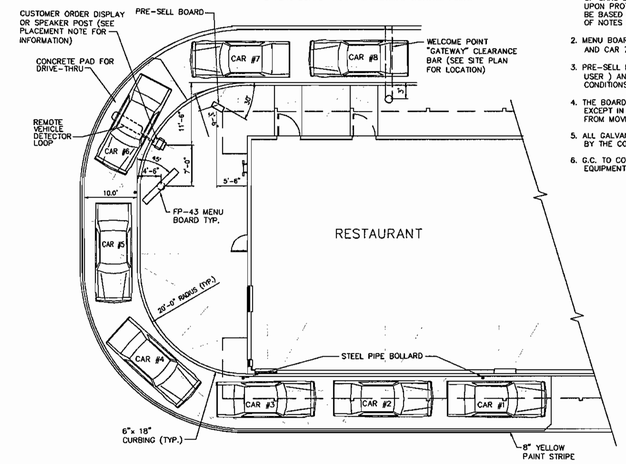
NO SCALE



DRIVE THRU SITE WIRING DIAGRAM

NO SCALE

PLACEMENT NOTE:
THE PLACEMENT OF THE CUSTOMER ORDER DISPLAY SHOULD BE SUCH THAT IT DOES NOT BLOCK THE VIEWING OF THE MENU BOARD FROM THE DRIVER'S VANTAGE POINT.



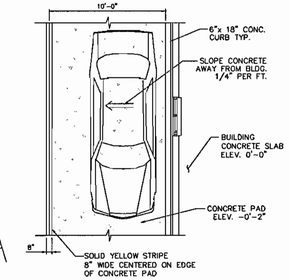
PLAN

TYPICAL DRIVE THRU LAYOUT

NO SCALE

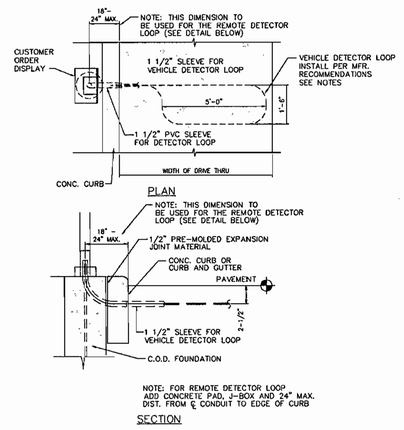
GENERAL NOTES:

1. THE LOCATION AND ORIENTATION OF MENU BOARDS AND PRE-SELLS WERE DETERMINED BY THE SIGHT LINES OF THE CARS SHOWN. THE CARS WERE POSITIONED ACCORDING TO THE MAX. AMOUNT OF CARS DURING A PEAK PERIOD. ALL DIMENSIONS SHOWN ARE BASED UPON PROTOTYPICAL LAYOUTS SHOWN. ACTUAL DIMENSIONS TO BE BASED ON SITE SPECIFIC CONFIGURATIONS AND THE REQUIREMENTS OF NOTES 2 & 3.
2. MENU BOARD IS ORIENTATED FOR VIEWING BY CAR 6 (PRIMARY USER) AND CAR 7 (SECONDARY USER).
3. PRE-SELL BOARD #1 IS ORIENTATED FOR VIEWING BY CAR 7 (PRIMARY USER) AND CAR 8 (SECONDARY USER), OR AS DETERMINED BY SITE CONDITIONS. SEE PLAN.
4. THE BOARDS ARE SETBACK 3'-6" FROM THE FACE OF OUTER CURB, EXCEPT IN AREAS SHOWN. THIS IS TO PREVENT DAMAGE TO BOARDS FROM MOVING VEHICLES.
5. ALL GALVANIZED ANCHOR BOLTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
6. G.C. TO COORDINATE WITH PROJECT MANAGER FOR SELECTED DRIVE THRU EQUIPMENT AND PLACEMENT OF ALL SIGNAGE PRIOR TO INSTALLATION.



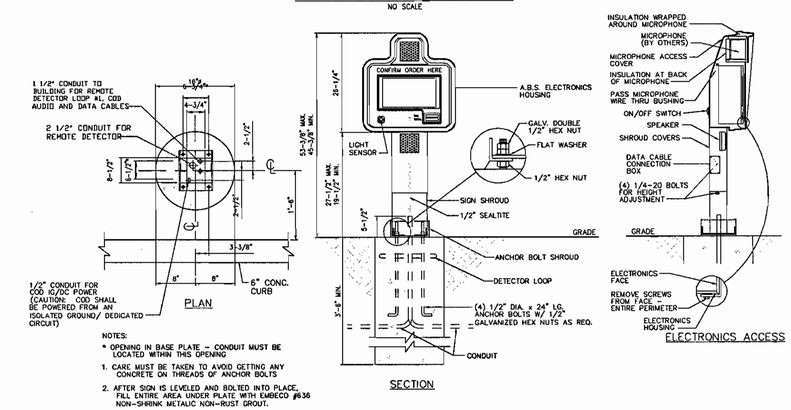
CONCRETE PAD DETAIL

SEE DRIVE THRU CONCRETE PAD DETAIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
NOTE: NO STEEL IS TO BE USED IN CONCRETE.



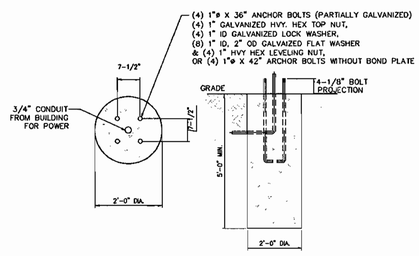
AUTO DETECTOR LOOP DETAIL

NO SCALE



CUSTOMER ORDER DISPLAY DETAIL

NO SCALE

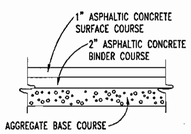


WELCOME POINT FOUNDATION DETAIL

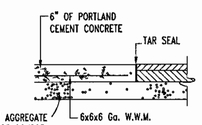
NO SCALE

NOTES:

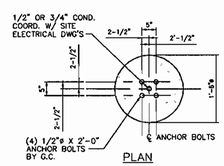
1. G.C. TO COORDINATE THE RESPONSIBILITIES OF THE ELECTRICAL CONTRACTOR AND THE SIGN SUPPLIER.
2. GENERAL CONTRACTOR TO INSTALL PRE-FORMED, PRE-WIRED VEHICLE DETECTOR LOOP.
3. #12 GREEN GROUNDING CONDUCTOR MUST BE RUN WITH CIRCUIT CONDUCTORS FROM GROUND BUS IN PANEL LP TO ALL MENU BOARDS AND REFERENCE BOARDS.
4. ALL UNDERGROUND CONDUIT FOR AUDIO TO BE P.V.C. NO METAL ALLOWED.
5. DIRECTIONAL SIGN FOOTING DETAIL TO BE USED FOR ALL ENTER/EXIT/WELCOME SIGNS AND DRIVE THRU DIRECTIONAL SIGNAGE. COORDINATE WITH THE SITE PLANS AND McDONALD'S PROJECT MANAGER FOR THE EXACT LOCATION, ORIENTATION AND NUMBER OF SIGNS TO BE INSTALLED AT THIS SITE. ALL WORK TO BE COORDINATED WITH THE OTHER TRADES.
6. ALL GALVANIZED ANCHOR BOLTS TO BE SUPPLIED BY THE CONTRACTOR.



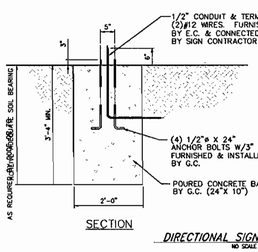
ASPHALT PAVING SECTION
(DRIVE LANES)
NO SCALE



CONCRETE SECTION
(DRIVE THRU LANE & TRASH ENCLOSURE PAD)
NO SCALE



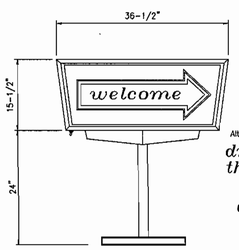
NOTE:
THIS DETAIL TO BE USED WITH SITE SIGNS FROM:
TENCON
EVERBRITE
YESCO



AS REQUIRED BY HOWARD CO. SIG. BULLETIN

DIRECTIONAL SIGN FTG. DETAILS

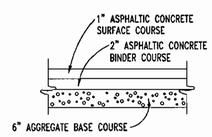
NO SCALE



Alternate Approved Copy
drive-thru
thank you
exit
entrance

McDONALD'S DIRECTIONAL SIGN DETAIL (90-5)

AREA = 3.5 S.F. - NO SCALE



ASPHALT PAVING SECTION
(PARKING STALLS)
NO SCALE

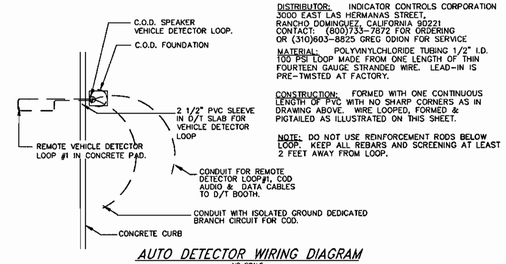
DETECTOR LOOP:

DISTRIBUTOR: INDICATOR CONTROLS CORPORATION
3000 EAST LAS HERMANAS STREET,
RANCHO DOMINGUEZ, CALIFORNIA 90221
CONTACT: (800)733-7672 FOR ORDERING
OR (310)603-8825 GREG ODION FOR SERVICE

MATERIAL: POLYVINYLCHLORIDE TUBING 1/2" I.D.
100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.

CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS IN DRAWING ABOVE. WIRE LOOPED, FORMED & PIGTAILED AS ILLUSTRATED ON THIS SHEET.

NOTE: DO NOT USE REINFORCEMENT RODS BELOW LOOP. KEEP ALL REBARS AND SCREENING AT LEAST 2 FEET AWAY FROM LOOP.



AUTO DETECTOR WIRING DIAGRAM

NO SCALE

05/30/02

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 THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK — DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 7/19/02
DIRECTOR — DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 7/17/02
HOWARD COUNTY HEALTH DEPARTMENT

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY
BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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

THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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

McDonald's

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

PERMIT INFORMATION CHART

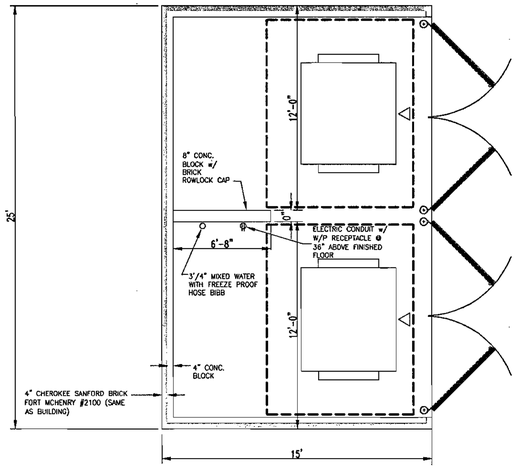
SUBDIVISION NAME			SECTION/AREA	LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1	PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO.	ELECT. DISTR	CENSUS TRACT
14821	1	NT	37	6	5068.05
WATER CODE			SEWER CODE	
E-07			2780000	

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

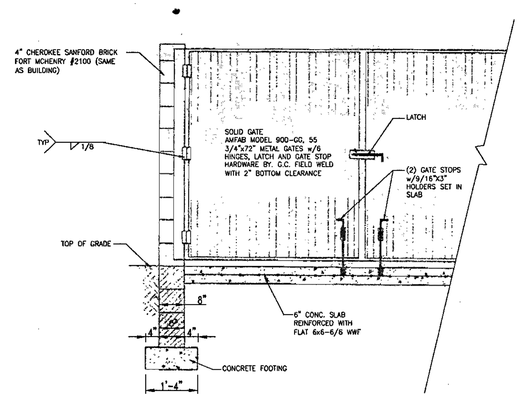
TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
CONSTRUCTION NOTES AND DETAILS

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE		PROJECT NO.: M0015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		13 OF 15

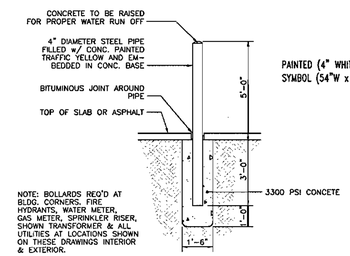
REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			



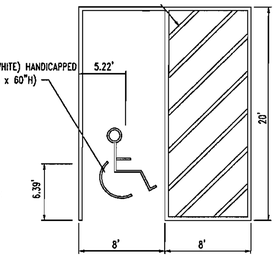
CORRAL LAYOUT (25'x15')
NO SCALE



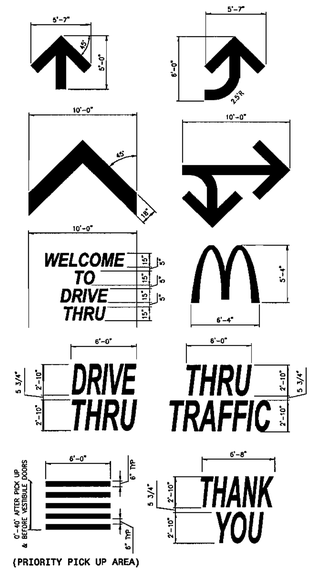
TRASH ENCLOSURE GATE
NO SCALE



BOLLARD DETAIL
N.T.S.

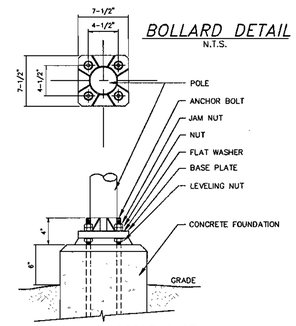


HANDICAP STALL MARKINGS
N.T.S.

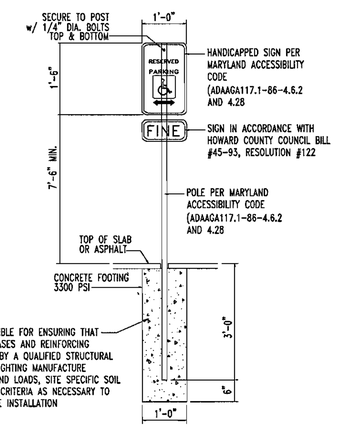


NOTE: ALL FONTS LETTERS TO BE *FUTURA CONDENSED EXTRA BOLD OBLIQUE*

TYPICAL PAVEMENT MARKINGS
N.T.S.

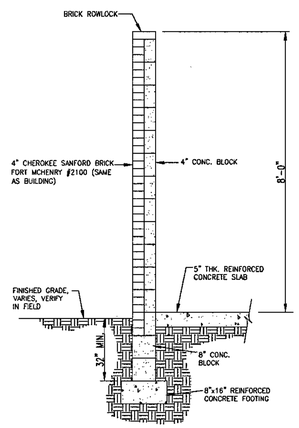


TYPICAL FLAGPOLE BASE
NO SCALE

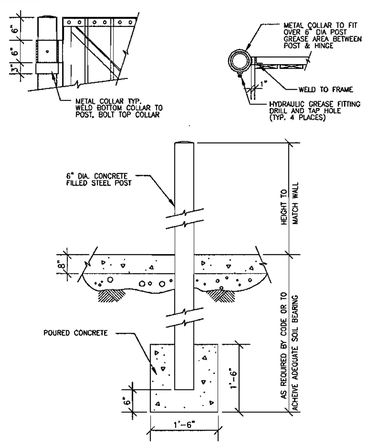


CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONCRETE LIGHT POLE BASES AND REINFORCING MATERIAL ARE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURE REQUIREMENTS, LOCAL WIND LOADS, SITE SPECIFIC SOIL PARAMETERS AND OTHER CRITERIA AS NECESSARY TO ENSURE STABILITY OF THE INSTALLATION

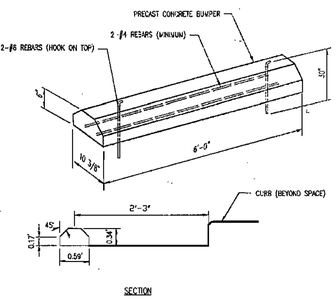
HANDICAP SIGN
N.T.S.



WALL SECTION
NO SCALE

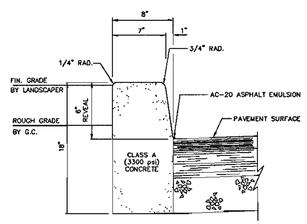


GATE POST DETAILS
NO SCALE



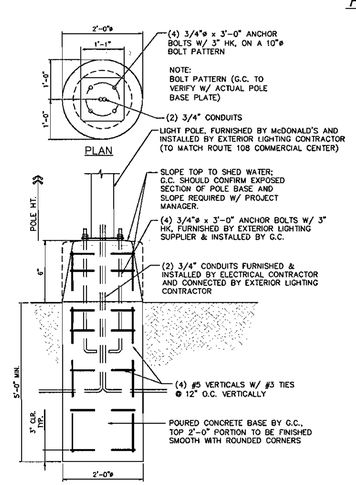
SECTION

CONCRETE WHEEL STOP
NO SCALE



TRANSVERSE JOINTS 3/4" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND SHALL BE FILLED WITH CELLULAR COMPRESSION MATERIAL AS SPECIFIED RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.

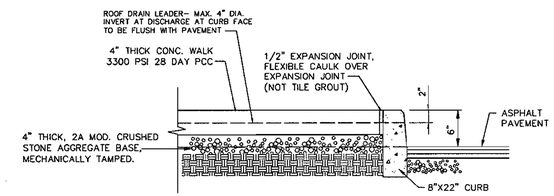
TYPICAL CONCRETE CURB
FOR USE WITHIN PROPERTY LINES – NO SCALE



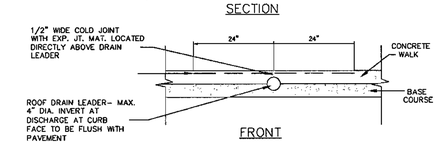
SECTION

NOTES:
1. IF THE EXISTING EARTH IS NON-VIRGIN FILL MATERIAL OR OTHERWISE UNSUITABLE TO SUPPORT THE BASE AND LIGHT, CONSULT THE McDONALD'S SOILS ENGINEER PRIOR TO PLACING CONCRETE.
2. FOUNDATION DEPTH AS REQUIRED BY CODE OR TO ACHIEVE ADEQUATE SOIL BEARING CAPACITY, (5' DEPTH MINIMUM).
3. IF OPTIONAL TAPERED STEEL BASE IS USED, FILL 2'-0"ø BASE WITH CONCRETE TO FORM TOP 2'-0" PORTION OF LIGHT POLE BASE.

AREA LIGHT POLE BASE DETAIL
NO SCALE

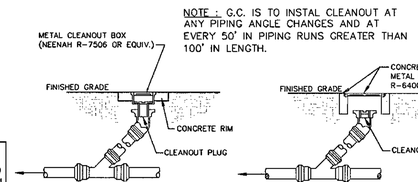


SECTION



FRONT

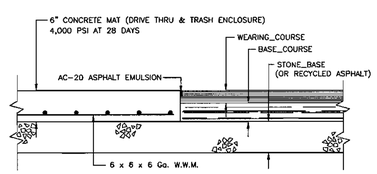
ROOF DRAIN CURB LEADER
N.T.S.



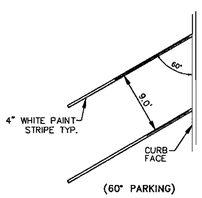
NOTE : G.C. IS TO INSTAL CLEANOUT AT ANY PIPING ANGLE CHANGES AND AT EVERY 50' IN PIPING RUNS GREATER THAN 100' IN LENGTH.

CLEANOUT IN UNPAVED AREAS — CLEANOUT IN PAVED AREAS

EXTERIOR CLEANOUT DETAILS
NO SCALE

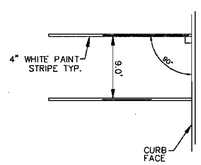


CONCRETE & PAVING DETAIL
NO SCALE



(60° PARKING)

PARKING STALL STRIPING
SCALE: N.T.S.



(90° PARKING)

PARKING STALL STRIPING
SCALE: N.T.S.

05/30/02

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/16/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 7/17/02
HOWARD COUNTY HEALTH DEPARTMENT

OWNER	THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 PHONE: 410-992-6028
DEVELOPER	McDONALD'S BALTIMORE-WASHINGTON REGION 7600 WISCONSIN AVE., 9TH FLOOR BETHESDA, MD 20814 PHONE: 240-497-3623

6/28/02 DATE

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

MISS UTILITY

BEFORE YOU DIG CALL 1-800-257-7777
PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

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

THE CONTRACTOR TO CALL MISS UTILITY TO MARK ALL EXISTING UTILITIES MARKED 72 HOURS PRIOR TO ANY CONSTRUCTION.

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

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OFFICE: BALTIMORE-WASHINGTON REGION
ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

PERMIT INFORMATION CHART

SUBDIVISION NAME			SECTION/AREA	LOT/PARCEL NO.
COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1	PARCEL B-8
PLAT# OR L/F	BLOCK#	ZONING	TAX MAP NO. / ELECT. DISTR	CENSUS TRACT
14821	1	NT	37 / 6	6066.05
WATER CODE			SEWER CODE	
E-07			2780000	

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

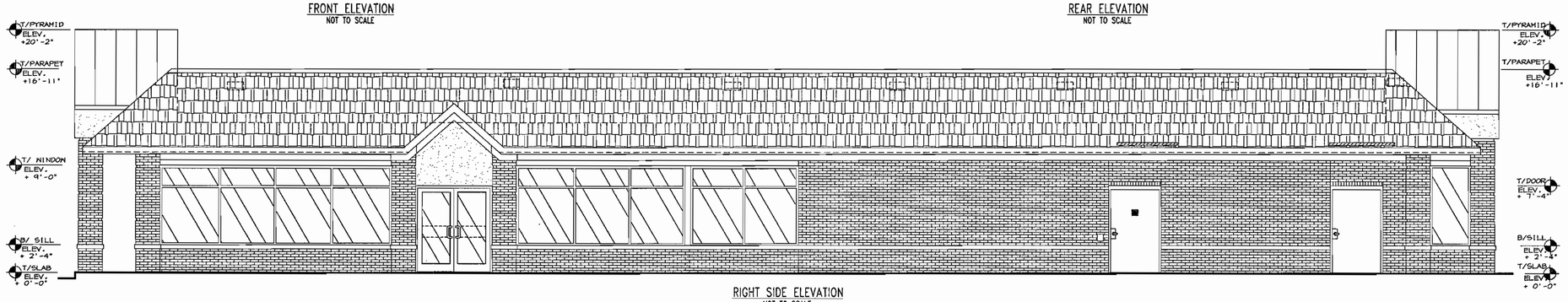
TITLE: McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
CONSTRUCTION NOTES AND DETAILS

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE		PROJECT NO.: MD015001
DRAWN BY: T.A.C.	DATE: 12/14/01		DRAWING NUMBER
CHECKED BY: A.J.V.	APPROVED: A.J.V.		14 OF 15

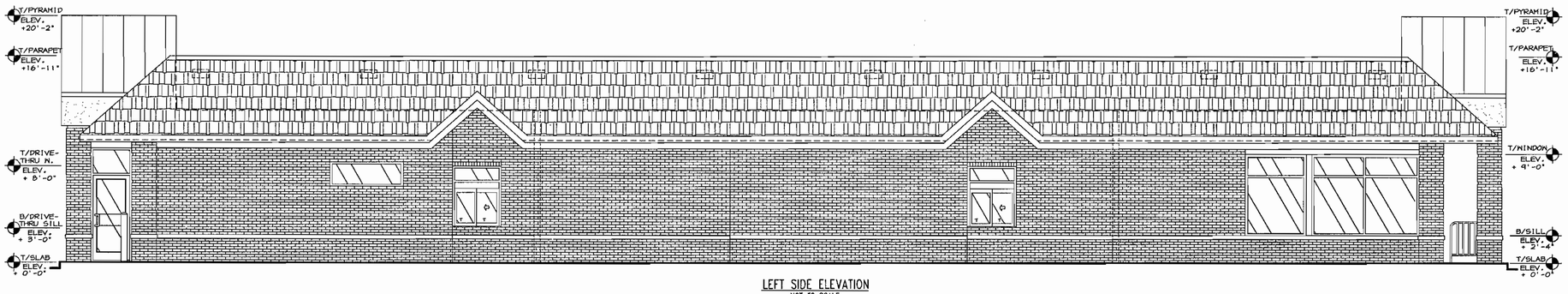
REV	DATE	DESCRIPTION	BY
1	04/12/02	PER HOWARD COUNTY COMMENTS	T.A.C.
2	05/16/02	PER H.R.D. COMMENTS	T.A.C.
3	05/22/02	PER HOWARD COUNTY/HRD COMMENTS	T.A.C.
4			

FRONT ELEVATION
NOT TO SCALE

REAR ELEVATION
NOT TO SCALE



RIGHT SIDE ELEVATION
NOT TO SCALE



LEFT SIDE ELEVATION
NOT TO SCALE

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ADDRESS: 7600 WISCONSIN AVE., 9TH FLOOR, BETHESDA, MD 20814

SDP-02-79

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 THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION MK	DATE 7/9/02
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/19/02
DIRECTOR	DATE 7/19/02

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 7/17/02
HOWARD COUNTY HEALTH DEPARTMENT

05/30/02

OWNER
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
PHONE: 410-992-6028

DEVELOPER
McDONALD'S
BALTIMORE-WASHINGTON REGION
7600 WISCONSIN AVE., 9TH FLOOR
BETHESDA, MD 20814
PHONE: 240-497-3623

6/28/02
DATE

ADAM J. VOLANTH
PROFESSIONAL ENGINEER NO. 21342

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COLUMBIA ROUTE 108 COMMERCIAL			SECTION 1 - AREA 1		PARCEL B-8
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ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
PARCEL B-8	8211 SNOWDEN RIVER PARKWAY

TITLE:
McDONALD'S CORPORATION
8211 SNOWDEN RIVER PARKWAY
HOWARD COUNTY, MARYLAND 21029
BUILDING ELEVATIONS

DESIGN BY: B.A.M.	SCALE: NOT TO SCALE	PROJECT NO.: MD015001	
DRAWN BY: T.A.C.	DATE: 12/14/01	DRAWING NUMBER	
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