No.	REVISION	DATE
6	REVISE PARKING CALCULATION AND TITLE	4/9/2015

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER
FOR REVISION 6 ONLY

SITE DEVELOPMENT PLANS

Chick-fil-A

AND MEDICAL BUILDING

10985 JOHNS HOPKINS ROAD
TAX MAP 41, GRID 22, PARCEL 425
LAUREL, HOWARD COUNTY, MARYLAND

GENERAL NOTES CONTINUED

38. THIS PLAN IS SUBJECT TO WP-14-132, WHICH WAS APPROVED ON JUNE 5, 2014, TO WAIVE SECTIONS 16.156(e)(1)(ii) & 16.156(o)(2) TO EXTEND THE DATE APPLY FOR A BUILDING PERMIT TO JUNE 5, 2015.

STATE OF MARYLAND NICHOLAS A. ARRICK 33772 PROFESSIONAL ENGINEER 9/16/13

5 FOR REVISION 5 ONLY

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

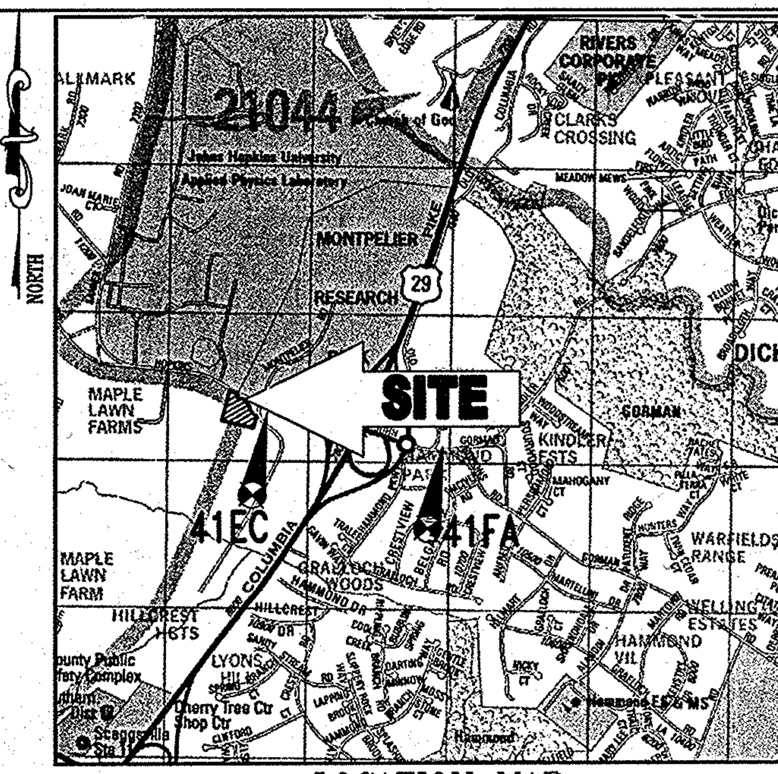
License No. 33772, Expiration Date: 10-16-15

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE



LOCATION MAP
COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20602153-5
SCALE: 1"=2000'

3 FOR REVISION 3 ONLY

2 FOR REVISION 2 ONLY

COUNTY CONTROL INFORMATION

HO. CO. #41EC (NAD 83)
N 543,588.804
E 1,342,628.780
ELEV. = 430.38

HO. CO. #41FA (NAD 83)
N 543,109.935
E 1,344,797.520
ELEV. = 407.60

LEGEND
FOR ENTIRE PLAN SET
(NOT TO SCALE)

EXISTING / PROPOSED

- ONSITE PROPERTY LINE / R.O.W. LINE
- NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE
- EASEMENT LINE
- SETBACK LINE
- CONCRETE CURB & GUTTER (TYPICAL, SPILL, TRANSITION, DEPRESSED)
- STORM SEWER
- SANITARY SEWER MAIN
- SANITARY SEWER LATERAL
- UG WATER LINE
- UG ELECTRIC LINE
- UG GAS LINE
- OVERHEAD WIRE
- UG TELEPHONE LINE
- UG CABLE LINE
- SPOT ELEVATIONS (TC 516.4 OR 516.4; TC 516.00 OR X 51.6; TC 516.00 BC 515.55)
- CONTOUR LINE (516; 123)
- HYDRANT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER METER
- WATER VALVE
- GAS VALVE
- GAS METER
- TYPICAL END SECTION
- HEADWALL OR ENDWALL
- YARD INLET
- CURB INLET
- CLEAN OUT
- SANITARY LABEL
- STORM LABEL
- TYPICAL LIGHT
- ACORN LIGHT
- TRAFFIC LIGHT
- UTILITY POLE
- TYPICAL SIGN
- TYPICAL NOTE TEXT (EXISTING NOTE / PROPOSED NOTE)
- PARKING COUNTS
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- ELECTRIC BOX
- ELECTRIC PEDESTAL
- MONITORING WELL
- TEST PIT
- BENCHMARK
- BORING
- UTILITY POLE W/LIGHT
- POLE LIGHT
- EASEMENT

GENERAL NOTES

1. THIS PLAN REFERENCES A SURVEY BY CONTROL POINT ASSOCIATES:
22630 DAVIS DRIVE, SUITE 200
STERLING, VIRGINIA 20164
ENTITLED "ALTA/ACSM LAND TITLE SURVEY, CHICK-FIL-A, INC. #10985, JOHNS HOPKINS ROAD, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND"
DATED: 7/21/06
PROJECT NO.: S065615.SR
2. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY CONTROL POINT ASSOCIATES DATED 7/21/06 AND EX. TOPOGRAPHY OF THE SWALE SHOWN IN 2 FOOT INTERVALS ARE FROM PLANS BY MILDENBERG, BOENDER AND ASSOCIATES, INC. TITLED "SITE DEVELOPMENT PLAN, HOPKINS STATION (PRICE FARMS, LOT 1) FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND" DATED JANUARY 2006, SDP-05-138.
3. EXISTING UTILITIES ARE BASED ON A SURVEY BY CONTROL POINT ASSOCIATES, INC. DATED 7/21/06.
4. THE TRAFFIC STUDY FOR THIS PROJECT TITLED: "TRAFFIC IMPACT ANAYLSIS, CHICK-FIL-A JOHN'S HOPKINS ROAD, HOWARD COUNTY, MARYLAND." PREPARED BY TRAFFIC GROUP DATED AUGUST 24, 2006, PROJECT NO. 2006-0545 APPROVED ON NOVEMBER 2, 2006 BY HOWARD COUNTY DEVELOPMENT ENGINEERING DIVISION.
5. THE SUBJECT PROPERTY IS ZONED B-2 PER THE FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN AND THE COMPREHENSIVE LITE ZONING REGULATIONS EFFECTIVE JULY 23, 2006.
6. EXISTING USE: VACANT LOT WITH A BANK CURRENTLY BEING CONSTRUCTED ON A LEASE PARCEL.
PROPOSED USE: CHICK-FIL-A RESTAURANT AND GENERAL OFFICE/RETAIL BUILDING (THE GENERAL OFFICE/RETAIL BUILDING WILL NOT BE USED FOR RESTAURANTS, CARRYOUTS, OR CONVENIENCE STORES UNLESS APPROVED BY HOWARD COUNTY)
7. BUILDING HEIGHT: CHICK-FIL-A 25'-0"±, RETAIL BUILDING 25'-0"±
MAXIMUM HEIGHT ALLOWED: 40'-0"
8. PARKING:
REQUIRED –
BANK:
FIVE SPACES/1,000 S.F. OF FLOOR AREA
5 x (3,000 S.F./1,000 S.F.) = 15 SPACES

FAST FOOD RESTAURANT:
14 SPACES/1,000 S.F.
14 x (3,921 S.F./1,000 S.F.) = 55 SPACES

MEDICAL BUILDING: (2 FLOORS @4,115 S.F. EACH)
(1ST FLOOR)
5 SPACES/1,000 S.F.
5 x (4,115 S.F./1,000 S.F.) = 21 SPACES

(2ND FLOOR)
5 SPACES/1,000 S.F.
5 X (4,115 S.F./1,000 S.F.) = 21 SPACES

TOTAL PARKING SPACES REQUIRED = 112 SPACES
TOTAL PARKING SPACES PROVIDED = 119 SPACES (INCLUDING 7 HANDICAP SPACES)
*THERE WILL BE NO BUSINESS OWNED VEHICLES PARKED ONSITE.
9. SETBACKS:

	REQUIRED	PROPOSED RESTAURANT	PROPOSED (OFFICE/RETAIL BUILDING)
JOHNS HOPKINS ROAD:			
USE & STRUCTURE SETBACK	30'	N/A	240.69'
PARKING SETBACK	10'	N/A	185.65'
OLD COLUMBIA ROAD:			
USE & STRUCTURE SETBACK	30'	55.53'	219.78
PARKING SETBACK	30'	30.40'	N/A
WEST SIDE:			
USE & STRUCTURE SETBACK	30'	239.61'	31.29'
PARKING SETBACK	30'	31.29'	31.29'
REAR:			
USE & STRUCTURE SETBACK	30'	31.00'	95.43'
PARKING SETBACK	30'	31.00'	31.00'

GENERAL NOTES (CONTINUED)

10. REFUSE SHALL BE DISPOSED OF DAILY IN TRASH RECEPTACLES. TRASH REMOVAL WILL BE PRIVATELY CONTRACTED.
11. LIGHTING SHALL BE SHIELDED AND DIRECTED SO THAT IT DOES NOT SHINE DIRECTLY ONTO ANY ADJACENT PROPERTIES, IT SHALL NOT ILLUMINATE RESIDENTIAL PROPERTIES AND SHALL NOT PRODUCE GLARE WHICH WOULD CAUSE A HAZARD FOR MOTOR VEHICLE OPERATIONS IN THE VICINITY OF THE SITE. LIGHTING SHALL COMPLY WITH SECTION 134 OF THE ZONING REGULATIONS.
12. UTILITIES:
WATER, PUBLIC – EXISTING 8" WATER LINE (CONTRACT #24-4311-D) IS LOCATED ON THE WEST SIDE OF OLD COLUMBIA ROAD AND SERVICES THE SITE.
SEWER, PUBLIC – AN 8" SANITARY SEWER LINE (CONTRACT #24-4311-D) IS LOCATED ALONG OLD COLUMBIA ROAD AND CURRENTLY SERVICES THE SITE.
STORM DRAIN – THERE IS NO STORMDRAIN CURRENTLY ONSITE. STORMWATER MANAGEMENT FOR THE SITE WILL BE HANDLED BY A STORMDRAIN SYSTEM WITH A STORMFILTER FOR WQv, A RECHARGE FACILITY FOR REv AND UNDERGROUND STORAGE PIPE FOR CPv AND OVERBANK FLOOD PROTECTION. MAINTENANCE FOR THE STORMWATER MANAGEMENT SYSTEM WILL BE PROVIDED BY THE OWNER, HOPKINS STATION GENERAL PARTNERSHIP C/O BRANTLY DEVELOPMENT GROUP.
13. ALL HOWARD COUNTY STORMWATER QUALITY REQUIREMENTS SHALL BE MET. A PRIVATE UNDERGROUND STORMFILTER SYSTEM WILL BE UTILIZED FOR QUALITY REQUIREMENTS. THE OWNER IS RESPONSIBLE FOR ALL MAINTENANCE OF THE SYSTEM TO ENSURE THE PROPER FUNCTION OF THE STORMFILTER. RECHARGE FOR THE SUBJECT SITE WILL BE MET BY UTILIZING AN UNDERGROUND RECHARGE FACILITY. CHANNEL PROTECTION AND QUALITY MANAGEMENT WILL BE MET BY USE OF UNDERGROUND STORAGE PIPES.
14. ELECTION DISTRICT: 5
15. DEED REFERENCE:
PART OF LOT 1
REVISION PLAT FOR PRICE FARMS
PLAT #9252
LIBER 3095, FOLIO 39 & LIBER 7004, FOLIO 653
16. TAX MAP: 41, GRID: 22, PARCEL: 425
17. PROPERTY IS LOCATED IN LAUREL.
18. THERE IS NO 100-YEAR FLOOD PLAIN LOCATED ON SITE PER FEMA FIRM MAP 240044 0038 B DATED 12/4/86.
19. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
20. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.

GENERAL NOTES (CONTINUED)

21. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
22. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
23. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
24. THERE ARE NO KNOWN BURIAL GROUNDS LOCATED ON-SITE.
25. 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. 41EC AND 41EA WERE USED FOR THIS PROJECT.
26. THERE ARE NO WETLANDS ON THIS SITE.
27. THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION REGULATIONS AND THE 2004 ZONING REGULATIONS.
28. RELATED FILE APPLICATIONS: GP-06-46, SDP-05-138, SDP-79-40, SDP-90-113, 24-3040-D, WP-91-146, ZB-812M, F-90-132, F-79-18, BOA-945-C, VP-78-94, PLAT NO. 9252, J-4171-2 (PLAT OF SURPLUS LAND), SDP-05-138 (BANK)
29. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IS REQUIRED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF $15,450 FOR 26 SHADE TREES, 29 EVERGREEN TREES, AND 110 SHRUBS.
30. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
31. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
32. THE FOREST CONSERVATION REQUIREMENTS FOR THIS PROJECT HAVE BEEN ADDRESSED WITH A FEE-IN-LIEU PAYMENT OF $10,890.00 FOR 0.5 ACRES OF AFFORESTATION PER APPROVED SITE DEVELOPMENT PLANS TITLED "HOPKINS STATION, (PRICE FARMS, LOT 1), TAX MAP 41-GRID-22-PARCEL 425, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND" BY MILLDENBERG, BOENDER & ASSOCIATES, INC. DATED JANUARY 2006, SDP #05-138.
33. A KNOX BOX (FIRE DEPARTMENT ACCESS BOX) IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING. IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4-5' IN HEIGHT AND NO MORE THEN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSED. (INTEGRATED WITH THE FIRE ALARM SYSTEM NFPA-1 10.12.1)
34. THE GENERAL OFFICE/RETAIL BUILDING '2' AND THE CHICK-FIL-A RESTAURANT BUILDING '3' WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
35. PER AN E-MAIL SENT FROM DANNY DAVIS OF BALTIMORE GAS AND ELECTRIC (BGE) TO JUSTIN DUNN OF BOHLER ENGINEERING, P.C. ON DEC. 15, 2006, BGE HAS APPROVED THE PLANS BASED ON HOWARD COUNTY CHECKLIST REQUIREMENTS. THE CONTRACTOR TO ENSURE TREES WITH MATURE HEIGHTS GREATER THAN 25' SHALL NOT BE PLANTED WITHIN 20' OF EITHER SIDE OF THE UTILITY POLE LINE. ADDITIONALLY, IF THESE TREES ARE TO BE PLANTED ON BERMS THE MATURE TREE HEIGHTS SHALL BE REDUCED BY THE HEIGHT OF THE BERM AS MEASURED ABOVE MEAN GROUND ELEVATION OF THE UTILITY POLE LINE. TREES WITH MATURE HEIGHTS GREATER THAN 40' SHALL NOT BE PLANTED WITHIN 45' OF THE UTILITY POLE LINE AND SHALL HAVE THE SAME BERM LIMITATIONS NOTED ABOVE. FINALLY, THE RECORDED PLAT/DRAWING AND ASSOCIATED FOREST CONSERVATION EASEMENT DOCUMENTS RECORDED IN THE LAND RECORDS OF HOWARD COUNTY SHALL NOTE THAT TREES RETAINED OR PLANTED TO COMPLY WITH FCA REQUIREMENTS SHALL MEET THE CONDITIONS PRESCRIBED ABOVE FOR MATURE TREE HEIGHTS AND PLANTING DISTANCES FROM THE LINES.
36. A LICENSE AGREEMENT FOR THE CELLULAR TOWER HAS BEEN MADE ON FEBRUARY 13TH, 1996 BETWEEN WASHINGTON/BALTIMORE CELLULAR LIMITED PARTNERSHIP AND WIRELESS PCS, INC. THE LEASE PERTAINS TO THE PROPERTY IMPROVEMENTS FROM HOPKINS STATIONS GENERAL PARTNERSHIP AND DESCRIBED AS ELECTION DISTRICT 5, LOT 1, PLATBOOK 9252 RECORDED IN DEED BOOK 3095 AND PAGE 039 DATED JUNE 5, 1995.
37. APFO VERIFICATION LETTER DATED 3/27/2015 WAS APPROVED ON 3/31/2015.

SEE THIS SHEET FOR CONTINUATION...

SHEET INDEX

NO.	SHEET
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS AND DEMOLITION PLAN
4	SITE PLAN
5	GRADING PLAN
6	UTILITY PLAN
7-10	UTILITY PROFILES
11	EROSION AND SEDIMENT CONTROL PLAN
12-13	EROSION AND SEDIMENT CONTROL DETAILS
14	LIGHTING PLAN
15	LANDSCAPE PLAN
16	LANDSCAPE NOTES AND DETAILS
17	STORMDRAIN DRAINAGE AREA MAPS
18-19	STORMWATER MANAGEMENT NOTES AND DETAILS
20-21	BUILDING ELEVATIONS
22	BUILDING FOOTPRINT
23-26	SITE DETAILS
27	SOIL BORING PLAN
28	SWM Drainage Area Map

SITE ANALYSIS DATA CHART

PROJECT AREA: PARCEL 425 = 3.59 ACRES (TOTAL SITE) OR 156,380 S.F.
LIMIT OF DISTURBED AREA: 1.96 AC. OR 85,344 S.F.
PRESENT ZONING: B-2 (GENERAL BUSINESS DISTRICT)
PROPOSED USE: CHICK-FIL-A RESTAURANT WITH DRIVE-THRU AND A GENERAL OFFICE/RETAIL BUILDING
FLOOR AREA: CHICK-FIL-A = 3,921 S.F.
MEDICAL BUILDING = 8,330 S.F. (2 FLOORS @ 4,115 SF)
MAXIMUM NUMBER OF EMPLOYEES: 12 (RESTAURANT); 14 (OFFICE/RETAIL BUILDING)
PARKING SPACES REQUIRED: SPACES
PARKING SPACES PROVIDED: 119 SPACES (INCLUDING 7 HANDICAP SPACES)
THERE WILL BE NO BUSINESS OWNED VEHICLES PARKED ONSITE.
BUILDING COVERAGE OF SITE: 0.36 ACRES (10% OF GROSS AREA)
APPLICABLE DPZ FILE REFERENCES: (SEE NOTE 28)

BENCHMARK INFORMATION

USCGS TRIANGULATION DISK STAMPED "HOPKINS 1966" IN A CONCRETE MONUMENT 0.4' BELOW THE SURFACE. LOCATED IN FRONT OF JOHNS HOPKINS APPLIED PHYSICS LABORATORY, 600'± NORTH OF JOHN HOPKINS ROAD. ELEVATION 445.50

AS-BUILT
12/3/07
REGISTERED PROFESSIONAL ENGINEER
1 FOR REVISION 1 ONLY

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/19/07
CHIEF-DIVISION OF LAND DEVELOPMENT — DATE 8/3/07
DIRECTOR — DATE 8/8/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT — DATE 8/2/07

NO.	DATE	REVISION DESCRIPTION
5	7/26/13	PROPOSED VERIZON LOCATION
3	4/07/08	SIZE & AREA REDUCED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA IN GENERAL NOTES

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT 1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

COVER SHEET

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

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	1 OF 28

SDP # 07-033

UTILITY CONTACT INFORMATION:

NATURAL GAS AND ELECTRIC
BALTIMORE GAS AND ELECTRIC
7317 PARKWAY DRIVE
SOUTH HANOVER, MD 21076
PHONE: (410) 859-9383

WATER AND SANITARY SEWER
HOWARD COUNTY PUBLIC WORKS BUREAU OF UTILITIES
8250 OLD MONTGOMERY ROAD
COLUMBIA, MD 21045
PHONE: (410) 313-4910

TELEPHONE
VERIZON
7133 RUTHERFORD ROAD
BALTIMORE, MD 21244
PHONE: (410) 224-5286

EROSION AND SEDIMENT CONTROL
DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS
3430 COURTHOUSE DRIVE
ELLICOTT CITY, MD 21043
PHONE: (410) 313-2455

STORMWATER MANAGEMENT
HOWARD COUNTY PLANNING AND ZONING DEPARTMENT
3430 COURTHOUSE DRIVE
ELLICOTT CITY, MD 21043
PHONE: (410) 313-2350

PLANNING AND ZONING
HOWARD COUNTY PLANNING AND ZONING DEPARTMENT
3430 COURTHOUSE DRIVE
ELLICOTT CITY, MD 21043
PHONE: (410) 313-2350

MISS UTILITY

DIG WITH C.A.R.E. CALL MISS UTILITY KEEP MARYLAND SAFE

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

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

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

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
425	10975 JOHNS HOPKINS ROAD, LAUREL, HOWARD COUNTY, MD 20723 (CHICK-FIL-A RESTAURANT)
425	10981 JOHNS HOPKINS ROAD, LAUREL, HOWARD COUNTY, MD 20723 (MEDICAL BUILDING)

PERMIT INFORMATION CHART

PROJECT NAME			SECTION/AREA		LOT/PARCEL NO.
HOPKINS STATION			N/A		425
PLAT RECORDATION	BLOCK	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
9252	22	B-2	41	5TH	605102
WATER CODE			SEWER CODE		
F21			7690000		

PREPARED BY:
BOHLER ENGINEERING, P.C.
810 GLENEAGLES COURT, SUITE 300
TOWSON, MARYLAND 21286
(410) 821-7900
ATTN: MATTHEW T. ALLEN, P.E.

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

ISSUED FOR CONSTRUCTION

SIGNATURE DATE — SIGNATURE DATE — SIGNATURE DATE

THIS DOCUMENT IS NOT ISSUED BY BOHLER ENGINEERING, P.C. FOR CONSTRUCTION WITHOUT (3) SIGNATURES

BEPC PROJECT # — REVISION #/DATE

M:\05\Chick-fil-a\MDC56502\SITE SET\Rev 3\MDC56502.1SS3.dwg, 7/3/2007 8:58:53 AM, rgodfrey

DEMOLITION NOTES

1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

   22630 DAVIS DRIVE, SUITE 200
   STERLING, VIRGINIA 20164
   ENTITLED "ALTA/ACSM LAND TITLE SURVEY, CHICK-FIL-A, INC. #10985,
   JOHNS HOPKINS ROAD, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND"
   DATED: 7/21/06
   PROJECT NO.: S065615.SR

2. BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION.
3. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO BOHLER ENGINEERING, P.C. IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
4. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:

   A. ENSURING THAT COPIES OF ALL APPLICABLE PERMITS AND APPROVALS ARE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.

   B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL AND/OR TREE PROTECTION MEASURES PRIOR TO SITE DISTURBANCE.

   C. LOCATING (VERTICALLY AND HORIZONTALLY) ALL UTILITIES AND SERVICES, INCLUDING, BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.

   D. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEM THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.

   E. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.

   F. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.

   G. A COMPLETE INSPECTION FOR CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.

5. BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
6. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
7. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
8. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
9. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS - OF - WAY.
10. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
11. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE APPLICABLE PROPERTY OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
12. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS.
13. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
14. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
15. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
16. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBUILT PLANS AND UTILITY MARK OUTS DO NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATIONS ARE TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATIONS, SIZE AND TYPE BY THE PROPER UTILITY COMPANY AND OR CONTRACTOR.
17. 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. 41EC AND 41EA WERE USED FOR THIS PROJECT.
18. THERE IS NO 100-YEAR FLOOD PLAIN LOCATED ON SITE PER FEMA FIRM MAP 240044 0038 B DATED 12/4/86.
19. CONTRACTOR IS NOT TO REMOVE TREES FROM THE WOODED AREA THAT DO NOT RESIDE ON THE SUBJECT PROPERTY.

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

SITE PLAN GENERAL NOTES

1. THIS PLAN IS BASED ON A SURVEY PREPARED BY:

   22630 DAVIS DRIVE, SUITE 200
   STERLING, VIRGINIA 20164
   ENTITLED "ALTA/ACSM LAND TITLE SURVEY, CHICK-FIL-A, INC. #10985,
   JOHNS HOPKINS ROAD, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND"
   DATED: 7/21/06
   PROJECT NO.: S065615.SR

2. ALL ELEVATIONS SHOWN ARE BASED ON THE SURVEYOR'S BENCHMARK, AS REFERENCED IN THE SURVEY, AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUNDBREAK. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE DOCUMENTS AND FAMILIARIZING HIMSELF WITH SAME FOR APPLICATION BOTH PRIOR TO AND DURING CONSTRUCTION.

3. APPLICANT: CHICK-FIL-A
   5200 BUFFINGTON ROAD
   ATLANTA, GA 30349-2998
   C/O SCOTT PATMAN
   PHONE: (404) 684-8660

4. OWNER: HOPKINS STATION
   GENERAL PARTNERSHIP
   C/O BRANTLY DEVELOPMENT GROUP
   8835 COLUMBIA, 100 PARKWAY, SUITE P
   COLUMBIA, MD 21045
   PHONE: (410) 730-0810

5. PARCEL DATA: TAX MAP: 41
   GRID: 22
   PARCEL: 425

6. BULK REQUIREMENTS:

SETBACKS:	REQUIRED	PROPOSED RESTAURANT	PROPOSED (OFFICE/RETAIL BUILDING)
JOHNS HOPKINS ROAD:			
USE & STRUCTURE SETBACK	30'	N/A	262.29'
PARKING SETBACK	10'	N/A	185.63'
OLD COLUMBIA ROAD:			
USE & STRUCTURE SETBACK	30'	55.53'	219.78
PARKING SETBACK	30'	30.40'	N/A
WEST SIDE:			
USE & STRUCTURE SETBACK	30'	239.61'	31.29'
PARKING SETBACK	30'	31.29	31.29'
REAR:			
USE & STRUCTURE SETBACK	30'	31.00'	95.43'
PARKING SETBACK	30'	31.00'	31.00'

ZONE: B-2 (BUSINESS GENERAL)

7. PARKING REQUIREMENTS:
   REQUIRED:
   BANK:
   FIVE SPACES/1,000 S.F. OF FLOOR AREA
   5 x (3,000 S.F./1,000 S.F.) = 15 SPACES

   FAST FOOD RESTAURANT:
   14 SPACES/1,000 S.F.
   14 x (4,227 S.F./1,000 S.F.) = SPACES

   MEDICAL BUILDING: (2 FLOORS @ 4,115 S.F. EACH)
   (1ST FLOOR)
   5 SPACES/1,000 S.F.
   5 x (4,115 S.F./1,000 S.F.) = 21 SPACES

   (2ND FLOOR)
   5 SPACES/1,000 S.F.
   5 X (4,115 S.F./1,000 S.F.) = 21 SPACES

   TOTAL PARKING SPACES REQUIRED = 112 SPACES
   TOTAL PARKING SPACES PROVIDED = 119 SPACES (INCLUDING 7 HANDICAP SPACES)
   *THERE WILL BE NO BUSINESS OWNED VEHICLES PARKED ONSITE.

8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
9. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR ANY/ALL CERTIFICATIONS, INSPECTIONS, ETC. REQUIRED BY ALL GOVERNING JURISDICTIONAL AGENCIES DURING AND AFTER CONSTRUCTION FOR SIGN-OFF AND CERTIFICATE OF OCCUPANCY ISSUANCE, INCLUDING BUT NOT LIMITED TO PROCUREMENT OF SERVICES, SCHEDULING OF FIELD OBSERVATIONS AND COORDINATION WITH REPRESENTATIVES OF THE APPROPRIATE PARTIES.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
11. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY BOHLER ENGINEERING, P.C. IN WRITING OF ANY SUCH DISCREPANCY BETWEEN GEOTECHNICAL REPORT AND PLANS, ETC.
12. THE PROPERTY SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.
13. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING, P.C. AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, P.C. IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE INHIBITED BY ANY OTHER SITE FEATURES.
14. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY BOHLER ENGINEERING, P.C. IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
15. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.
16. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.
17. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
18. CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES AS NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF PAVEMENT, STRUCTURES, ETC. TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.
19. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND FOR NOTIFYING CONSTRUCTION MANAGER PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECT CABLE, CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. REPAIR SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
20. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
21. BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS/MEANS FOR COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFICATION OF OWNER AND BOHLER ENGINEERING, P.C. WHEN A CONFLICT IS IDENTIFIED.
22. BOHLER ENGINEERING, P.C. IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAVE THEY BEEN RETAINED FOR SUCH PURPOSES.

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR 5/15/2013
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15 DATE

SITE PLAN GENERAL NOTES (CONTINUED)

23. ALL CONTRACTORS MUST CARRY STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND APPROPRIATE LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, P.C., AND ITS SUBCONSULTANTS AS ADDITIONAL INSURED AND TO PROVIDE OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING, P.C. WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE HARMLESS BOHLER ENGINEERING, P.C. AND ITS SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
24. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, P.C., NOR THE PRESENCE OF BOHLER ENGINEERING, P.C. OR ITS EMPLOYEES AND SUBCONSULTANTS AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. BOHLER ENGINEERING, P.C. AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY. BOHLER ENGINEERING, P.C. SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE MADE ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.
25. BOHLER ENGINEERING, P.C. SHALL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. BOHLER ENGINEERING'S REVIEW SHALL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT BOHLER ENGINEERING, P.C. HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING, P.C. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF BOHLER ENGINEERING, P.C. IN WRITING BY THE CONTRACTOR. BOHLER ENGINEERING, P.C. SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
26. IN AN EFFORT TO RESOLVE ANY CONFLICTS THAT ARISE DURING THE DESIGN AND CONSTRUCTION OF THE PROJECT OR FOLLOWING THE COMPLETION OF THE PROJECT, BOHLER ENGINEERING, P.C. AND THE CONTRACTOR MUST AGREE THAT ALL DISPUTES BETWEEN THEM ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE PROJECT SHALL BE SUBMITTED TO NONBINDING MEDIATION UNLESS THE PARTIES MUTUALLY AGREE OTHERWISE.
27. THE CONTRACTOR MUST INCLUDE A MEDIATION PROVISION IN ALL AGREEMENTS WITH INDEPENDENT SUBCONTRACTORS AND CONSULTANTS RETAINED FOR THE PROJECT AND TO REQUIRE ALL INDEPENDENT CONTRACTORS AND CONSULTANTS ALSO TO INCLUDE A SIMILAR MEDIATION PROVISION IN ALL AGREEMENTS WITH THEIR SUBCONTRACTORS, SUBCONSULTANTS, SUPPLIERS AND FABRICATORS, THEREBY PROVIDING FOR MEDIATION AS THE PRIMARY METHOD FOR DISPUTE RESOLUTION BETWEEN THE PARTIES TO ALL THOSE AGREEMENTS.
28. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

GRADING NOTES

1. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO BOHLER ENGINEERING, P.C.. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. ALL PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY BOHLER ENGINEERING, P.C. OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY BOHLER ENGINEERING, P.C. SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
4. DEFINE AND LOCATE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
5. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREASE TRAP REQUIREMENTS/DETAILS, DOOR ACCESS, AND EXTERIOR GRADING. THE UTILITY SERVICE SIZES ARE TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND ENSURE PROPER DEPTHS ARE ACHIEVED. THE JURISDICTION UTILITY REQUIREMENTS SHALL ALSO BE MET, AS WELL AS COORDINATING THE UTILITY TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME.
7. WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
8. ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.

UTILITY NOTES

1. MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES NOT LOCATED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE LOT OWNER. STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN DESIGN CONDITION AND FREE OF FILL AND OBSTRUCTIONS.
2. 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.
3. 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.
4. 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.

UTILITY NOTES (CONTINUED)

5. ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
6. 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.
7. 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.
8. WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
9. 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.
10. WATER AND SEWER SERVICES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR FOR HORIZONTAL AND VERTICAL ALIGNMENT AND CONNECTIONS.

GRADING NOTES (CONTINUED)

9. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT COMPLETED BY GILES ENGINEERING ASSCOCIATES, INC., ENTITLED "PROPOSED CHICK-FIL-A RESTAURANT 10985 JOHNS HOPKINS ROAD, COLUMBIA, MARYLAND", PROJECT #3G-0608004, DATED 9/13/06. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER OR OWNER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT.
10. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND SHALL BE COORDINATED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
11. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
12. PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
    % GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL
13. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75 % MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0 % ON ALL CONCRETE SURFACES; AND 1.5 % MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO BOHLER ENGINEERING, P.C. IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
15. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75
    CURBING CUT SHEETS PRIOR TO INSTALLATION.
16. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
17. IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY BOHLER ENGINEERING, P.C. IN WRITING OF ANY CONFLICTS.
18. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK.
19. A KNOX BOX (FIRE DEPARTMENT ACCESS BOX) IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING. IT SHALL BE PLACED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4-5' IN HEIGHT AND NO MORE THEN 6' LATERALLY FROM THE DOOR. THE BOX SHALL BE ELECTRONICALLY SUPERVISED TO NOTIFY THE OWNER THAT IT IS BEING ACCESSED (INTEGRATED WITH THE FIRE ALARM SYSTEM NFPA-1 10.12.1)

MISS UTILITY

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

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

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

1 FOR REVISION 1 ONLY

AS-BUILT

3 FOR REVISION 3 ONLY

FOR REVISION 4 ONLY

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION 7/19/07 DATE

CHIEF-DIVISION & LAND DEVELOPMENT 8/3/07 DATE

DIRECTOR 8/8/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Nixon for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
4	4/9/2015	REV. PARKING CALCULATIONS/TITLE
3	04/07/08	SIZE & AREA REVISED FOR CFA BUILDING
1	12/06/07	RETAIL BLDG. AREA IN NOTES

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

GENERAL NOTES

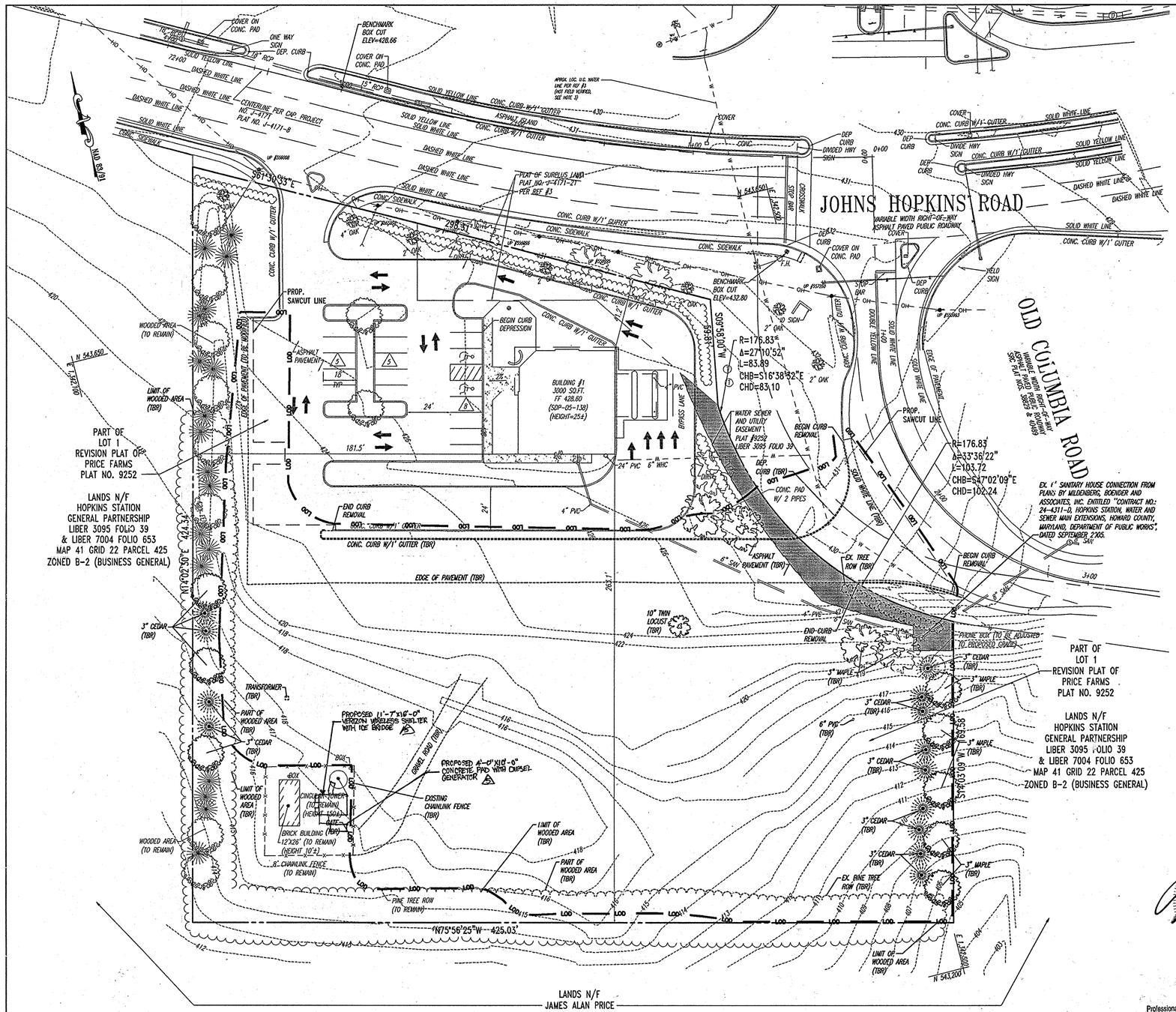
BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900 | FAX: (410) 821-7987 | MD@bohlereng.com•

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	2 OF 28

SDP # 07-033

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 9:00:11 AM, rgodfrey



NOTES:

1. PROPERTY IS KNOWN AS LOT 1, "REVISION PLAT OF PRICE FARMS" AS RECORDED ON PLAT NUMBER 9252, ALSO KNOWN AS THE LANDS OF HOPKINS STATION GENERAL PARTNERSHIP, AS RECORDED IN LIBER 3095 FOLIO 39, AND IN LIBER 7004 FOLIO 653 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND AND HAVING A TAX MAP NUMBER OF 41-22-425.
2. TOTAL SITE AREA 156,380 SQUARE FEET OR 3.59 ACRES±.
3. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE.
4. 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 MARK-OUT 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.
5. 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.
6. THIS SURVEY IS PREPARED WITH REFERENCE TO A TITLE COMMITMENT REPORT PREPARED BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NUMBER 4505-44213, EFFECTIVE DATE OCTOBER 23, 2005, AND REVISED DECEMBER 7, 2005. OUR OFFICE HAS REVIEWED THE FOLLOWING SURVEY RELATED EXCEPTIONS IN SCHEDULE B, SECTION II:
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
8. ELEVATIONS ARE BASED ON NGVD29 AS REFERENCED TO WSSC STATION 19790 WITH A PUBLISHED ELEVATION OF 445.5 FEET. EXISTING TOPOGRAPHY OF THE SWALE SHOWN IN 2 FOOT INTERVALS ARE FROM PLANS BY MILDENBERG, BOENDER AND ASSOCIATES, INC. TITLED "SITE DEVELOPMENT PLAN, HOPKINS STATION (PRICE FARMS, LOT 1) FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND" DATED JANUARY 2006, SDP-05-138..
9. THE PROPERTY IS LOCATED IN ZONE C (AREAS OF MINIMAL FLOODING) PER PLAN REFERENCE #2.
10. WATER UTILITIES ARE SHOWN PER FIELD LOCATION OF ABOVE GROUND STRUCTURES AND PLANS RECEIVED FROM UTILITY COMPANIES AND LOCAL GOVERNMENT OFFICES.
11. ALL MATTERS SHOWN ON LEGIBLE RECORDED PLATS THAT ARE WITHIN THE LIMITS OF THIS SURVEY ARE SHOWN.

REFERENCES:

1. THE MARYLAND DEPARTMENT OF ASSESSMENTS AND TAXATION RECORDS FOR HOWARD COUNTY, MARYLAND, MAP NUMBER 41.
2. MAP ENTITLED "FIRM, FLOOD INSURANCE RATE MAP, HOWARD COUNTY, MARYLAND, PANEL 38 OF 45", COMMUNITY-PANEL NUMBER 240044 0038 B, MAP EFFECTIVE DATE DECEMBER 4, 1986.
3. MAP ENTITLED "HOPKINS STATION, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND." DATED SEPTEMBER 2005, PREPARED BY MILDENBERG, BOENDER AND ASSOCIATES, INC.
4. MAP ENTITLED "REVISION PLAT OF PRICE FARMS, LOT 1" DATED FEBRUARY 12, 1990, PREPARED BY TRACY, SCHULTE & ASSOCIATES, INC.
5. REPORT ENTITLED "DEVELOPMENT INVESTIGATION REPORT FOR CHICK-FIL-A" PREPARED BY BOHLER ENGINEERING, P.C. DATED NOVEMBER 2005.

SEE SHEET 2 FOR ADDITIONAL NOTES

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

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

STATE OF MARYLAND · DOUGLAS A. FIRL · No. 32172 · PROFESSIONAL ENGINEER
4/16/07

△5 FOR REVISION 5 ONLY

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 33772, Expiration Date: 6-16-15

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ABCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21297, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

STATE OF MARYLAND · MICHAEL DAVID ABCOCK · No. 21297 · PROFESSIONAL LAND SURVEYOR

STATE OF MARYLAND · PAUL M. SILL · No. 32025 · PROFESSIONAL ENGINEER
FOR REVISION 6 ONLY

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/19/07
CHIEF-DIVISION OF LAND DEVELOPMENT	DATE 8/3/07
DIRECTOR	DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B. Nelson for Peter Bollenson 8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
6	4/14/15	REVISE TITLE
5	7/26/13	PROPOSED VERIZON LOCATION

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

EXISTING CONDITIONS AND DEMOLITION PLAN

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

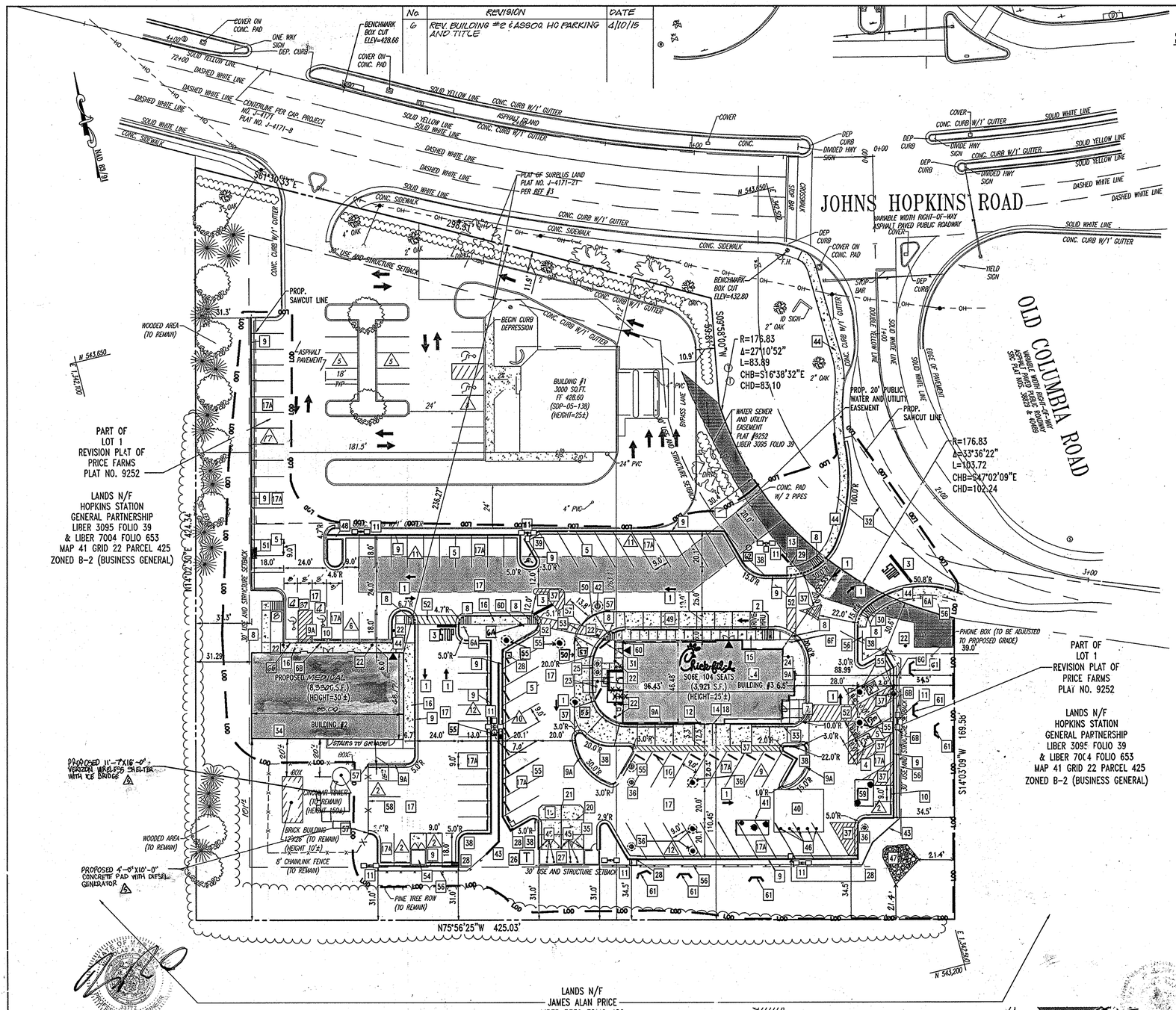
STATE OF MARYLAND · MATTHEW T. ALLEN · No. 28567 · PROFESSIONAL ENGINEER
DATE: 4/16/07

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	3 OF 28

SDP # 07-033

M:\05\CHICK-FIL-A\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/3/2007 5:01:00 AM, rgadney

No.	REVISION	DATE
6	REV. BUILDING #2 & ASSOC. HC PARKING AND TITLE	4/10/13



SITE PLAN DESIGN NOTES & KEY PLAN

1. DIRECTIONAL ARROW (TYP.) — 1 SHT. 23
2. DRIVE-THRU GRAPHICS — 2 SHT. 23
3. STOP LINE GRAPHIC — 3 SHT. 23
4. PAINTED HANDICAP PARKING SYMBOL (TYP.) — 4 SHT. 23
5. STANDARD PARKING STALL & STRIPING DETAIL (TYP.) — 9 SHT. 23; 13 SHT. 24
6. DIRECTIONAL SIGNAGE

   ALL SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U.S. DEPARTMENT OF TRANSPORTATION.

   - 6A "STOP" SIGN
   - 6B HANDICAP SIGN
   - 6C "DRIVE-THRU" SIGN (NOT USED)
   - 6D "RIGHT TURN ONLY" SIGN
   - 6E "ONE WAY" SIGN (NOT USED)
   - 6F "DO NOT ENTER" SIGN
   - 6G HANDICAP SIGN (VAN ACCESSIBLE)

7. CHICK-FIL-A MAIN ENTRY HANDICAP RAMP — 6 SHT. 23
8. CURBED RAMP DETAIL — 32 SHT. 25
9. 24" CURB AND GUTTER - CATCHING — 8 SHT. 23
9A. 24" CURB AND GUTTER - SPILLING
10. CONCRETE WHEEL STOP (TYP.) — 14 SHT. 24
11. TYPICAL LIGHT/POLE BASE DETAIL (TYP.) — 17 SHT. 24; 16 SHT. 24
12. BOLLARD AT DRIVE-THRU
13. MONUMENT SIGN WITH BUILDING ADDRESS (BOTH PROPOSED BUILDINGS)
14. CURB SECTION AT DRIVE-THRU — 11 SHT. 24; 12 SHT. 24
15. TYPICAL SIDEWALK DETAIL WITH FRAME PATTERN & BRUSH PATTERN — 5 SHT. 23
16. TYPICAL SIDEWALK DETAIL WITH CURB & GUTTER SECTION — 7 SHT. 23
17. 6"/2"/1" ASPHALT PAVEMENT SECTION (DRIVE LANES) — 21 SHT. 25
17A. 6"/2"/1" ASPHALT PAVEMENT SECTION (PARKING STALLS) — 21 SHT. 25
18. 6" CONCRETE PAVEMENT SECTION AT DRIVE-THRU — 25 SHT. 25
19. SECTION THROUGH CONCRETE APRON AT DUMPSTER — 27 SHT. 25
20. TRAVERSE & LONGITUDINAL CONTRACTION JOINTS — 28 SHT. 25
21. TRAVERSE & LONGITUDINAL DOWELED CONSTRUCTION JOINTS — 30 SHT. 25
22. PROPOSED CLEANOUT — 15 SHT. 24
23. MENU BOARD & CANOPY ORDERING STATION HGT. = 11', CLEARANCE = 13'-6"
24. FLAGPOLE ECX SERIES 50 FOOT FLAG POLE PACKAGE, BY APPROVED VENDORS; THE FLAG COMPANY OR ATLAS FLAGS. (ADVERTISING FLAGS ARE PROHIBITED.)
25. GREASE TRAP — 20 SHT. 25
26. PROPOSED TRANSFORMER (TO SERVE CHICK-FIL-A, GENERAL OFFICE/RETAIL BUILDING AND CELL PHONE TOWER)
27. DUMPSTER/STORAGE BUILDING — 10 SHT. 25
28. INLET (HOWARD COUNTY STD. DETAIL SD-4.22) — 19 SHT. 25
29. CHICK-FIL-A "ENTER" SIGN
30. CHICK-FIL-A "EXIT" SIGN
31. PRESELL MENU BOARD
32. THE CONTRACTOR SHALL INSTALL NECESSARY TRAFFIC CONTROL, SAFETY BARRICADES, LIGHTING, AND OTHER REQUIRED CONTROL MEASURES TO SECURE THE WORK AREA FROM EXISTING TRAFFIC AND TO ASSURE PUBLIC SAFETY.
33. BITUMASTIC EXPANSION JOINT, TYPICAL. INSTALL EXPANSION JOINT BETWEEN ALL CONCRETE PAVEMENT INTERFACE WITH BUILDINGS, CURB & GUTTER, AND OTHER CONSTRAINED OBJECTS.
34. SITE CONTRACTOR SHALL REFER TO ARCHITECT PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING AND THE LOCATION OF DOORWAYS, UTILITIES, ETC.
35. GATES TO BE INSTALLED BY BUILDING CONTRACTOR WITH DUMPSTER STRUCTURE. COORDINATE WITH PAVEMENT INSTALLATION.
36. MANHOLE (HOWARD COUNTY STD. DETAIL G 5.11) — 18 SHT. 25
37. 4" WIDE WHITE STRIPING
38. LANDSCAPE ISLAND
39. PROPOSED FIRE HYDRANT
40. PROPOSED STORMWATER MANAGEMENT RECHARGE FACILITY (SEE SHEET 19 FOR DETAIL)
41. 8x18 VOLUME STORMFILTER (SEE SHEET 18 FOR DETAIL)
42. PROPOSED SANITARY MANHOLE (HOWARD COUNTY STD. DETAIL G 5.12) — 36 SHT. 24
43. PROPOSED RETAINING WALL WITH SAFETY RAIL (REFER TO RETAINING WALL DESIGN) — 31 SHT. 8
44. PROPOSED CONCRETE SIDEWALK
45. PROPOSED BOLLARDS AT TRASH ENCLOSURE — 15 SHT. 24
46. TRAFFIC BEARING CLEANOUT
47. PROPOSED HEADWALL (HOWARD COUNTY STD. SD 5.11) WITH RIP RAP OUTFALL — 29 SHT. 25
48. 2' FLUME — 22 SHT. 25
49. PROPOSED LOADING AREA (TO BE USED AFTER RESTAURANT OPERATION HOURS) — 8 SHT. 23
50. CONCRETE CURB
51. INLET (HOWARD COUNTY STD. DETAIL SD-4.23) — 24 SHT. 25
52. PROPOSED CROSSWALK
53. PROPOSED 5' CURB CUT — 37 SHT. 25
54. PROPOSED DUMPSTER WITH CONCRETE APPROACH PAD WITH WOODEN SCREENING FENCE
55. ACCESS MANHOLE — 38 SHT. 26
56. PROPOSED GUARD RAIL
57. NOSE DOWN CURB — 40 SHT. 26
58. PROPOSED CHAINLINK FENCE
59. PROPOSED OUTLET STRUCTURE (SEE SHEET 19 FOR DETAIL)
60. PROPOSED STEPS (SEE SHEET 5 FOR DETAIL)
61. PROPOSED TREE WELL (SEE SHEET 16 FOR DETAIL)
62. 3/4" WATER METER FOR IRRIGATION

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR — DATE 5/15/2013
MD REG. NO. 21297, EXPIRATION DATE: 06-16-15

STATE OF MARYLAND — MICHAEL D. ADCOCK — No. 21297 — PROFESSIONAL LAND SURVEYOR

△3 FOR REVISION 3 ONLY

STATE OF MARYLAND — MATTHEW T. ALLEN — No. 28567 — PROFESSIONAL ENGINEER

△2 FOR REVISION 2 ONLY

STATE OF MARYLAND — PAUL M. SILL — No. 32025 — PROFESSIONAL ENGINEER

△1 FOR REVISION 1 ONLY

STATE OF MARYLAND — PAUL M. SILL — No. 32025 — PROFESSIONAL ENGINEER

FOR REVISION 6 ONLY

STATE OF MARYLAND — MATTHEW T. ALLEN — No. 28567 — PROFESSIONAL ENGINEER

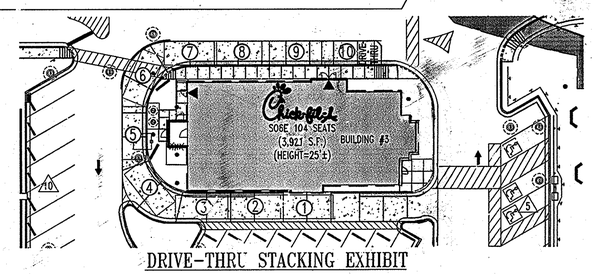
△5 FOR REVISION 5 ONLY

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 32772, Expiration Date: 6-30-15.

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

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.



DRIVE-THRU STACKING EXHIBIT
SCALE 1"=30'

MISS UTILITY
BIG BLUE C.A.L.L. BEFORE YOU DIG CALL 1-800-257-7777 PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 7/19/07
DIRECTOR — DATE 7/19/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
B. Nelson for Peter Beilenson 8/14/07
COUNTY HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT — DATE

NO.:	DATE	REVISION DESCRIPTION
5	7/28/13	PROPOSED VERIZON LOCATION
3	4/7/08	SITE & AREA REVISED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG AREA & ACCESS PER LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2928
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SITE PLAN

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLENBREAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7921 WWW.bohlerengineering.com

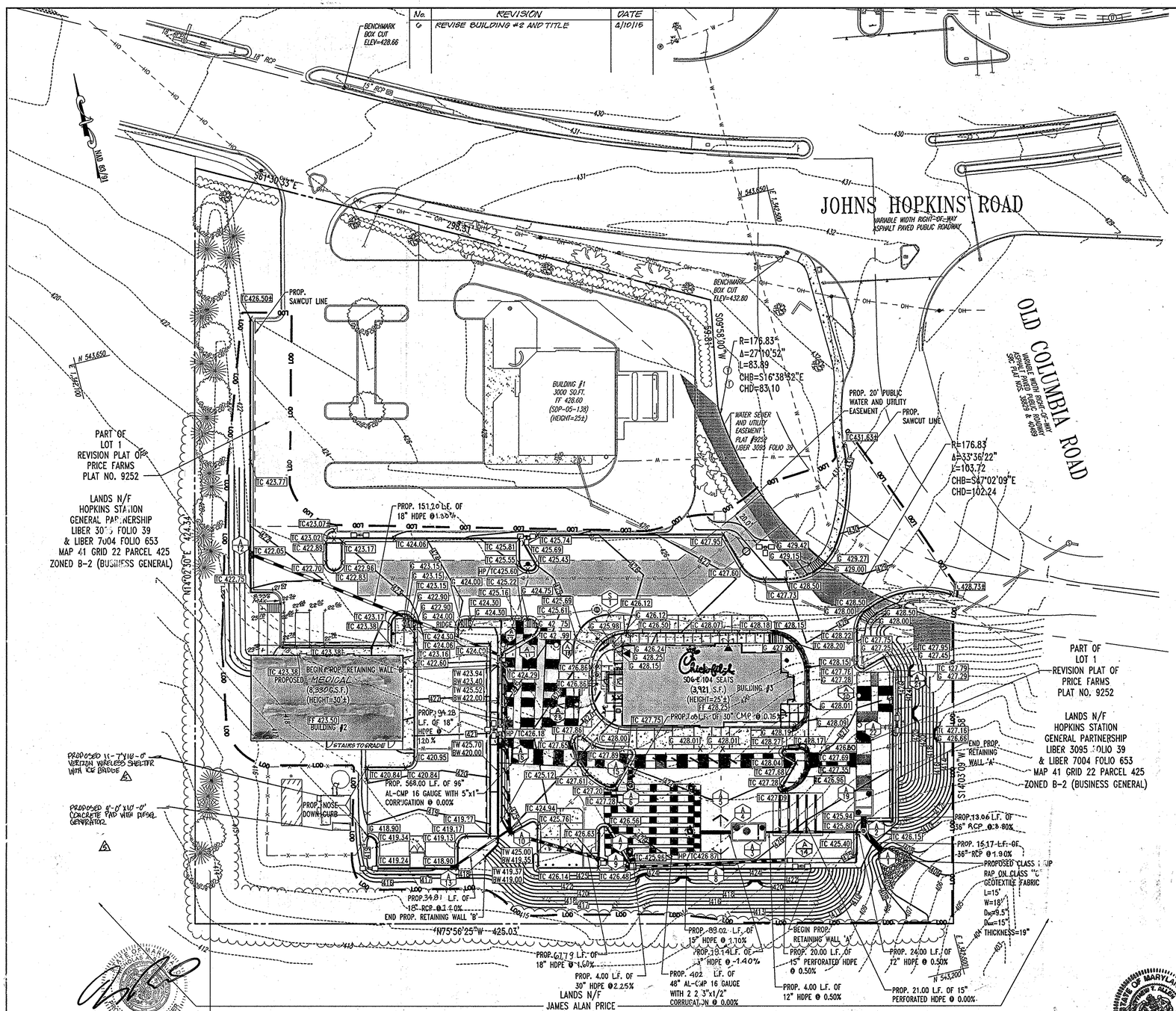
STATE OF MARYLAND — MATTHEW T. ALLEN — No. 28567 — PROFESSIONAL ENGINEER
DATE

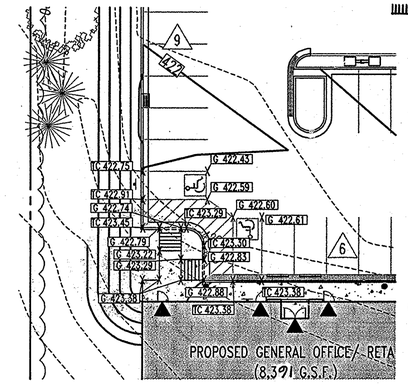
REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	4 OF 28

SDP # 07-033

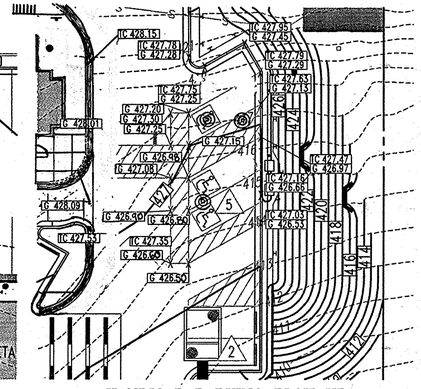
M:\003\chick-fil-a\M0056502\SITE SET\Rev 3\M0056502.1533.dwg, 7/9/2007 9:01:04 AM, rgodfrey

No.	REVISION	DATE
6	REVISE BUILDING #2 AND TITLE	4/10/13

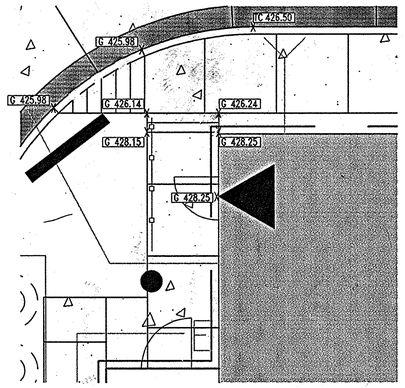




HANDICAP PARKING BLOW UP
SCALE: 1"=20'



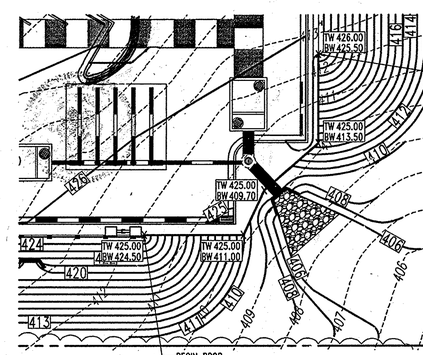
HANDICAP PARKING BLOW UP
SCALE: 1"=20'



STEPS BLOW UP
SCALE: 1"=5'

LEGEND:

123	PROPOSED CONTOUR
123	EXISTING CONTOUR
x TC 504.50	PROPOSED ELEVATION SPOT
TC	TOP OF CURB
G	GROUND
TW	TOP OF WALL
BW	BOTTOM OF WALL
TG	TOP OF GRATE
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
S	PROPOSED SANITARY SEWER
S	EXISTING SANITARY SEWER
G	PROPOSED UNDERGROUND GAS
G	EXISTING UNDERGROUND GAS
W	PROPOSED UNDERGROUND WATER
W	EXISTING UNDERGROUND WATER
E	PROPOSED UNDERGROUND ELECTRIC
E	EXISTING UNDERGROUND ELECTRIC
T	PROPOSED UNDERGROUND TELEPHONE
T	EXISTING UNDERGROUND TELEPHONE
OH	EXISTING OVERHEAD LINES
LOD	LIMIT OF DISTURBANCE
	SPILL CURB



RETAINING WALL BLOW UP
SCALE: 1"=20'

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/9/07

CHIEF-DIVISION & LAND DEVELOPMENT — DATE 8/3/07

DIRECTOR — DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Dufour for Peter Berdusan 8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
5	7/26/13	PROPOSED VERIZON LOCATION
4	6/06/13	LENGTH OF STORAGE PIPE REVISION
3	4/07/08	SIZE & AREA FOR CFA BUILDING REVISED
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS PERT LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

GRADING PLAN

BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900 FAX (410) 821-7967 | BOHLER-ENG.COM•

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	5 OF 28

SDP # 07-033

PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No: 33772, Expiration Date: 12-16-15

4/16/13

△5 FOR REVISION 5 ONLY

△4 FOR REVISION 4 ONLY

PROFESSIONAL CERTIFICATION
I, JOSEPH J. UCCIFERRO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36084, EXPIRATION DATE: 6/26/2014

△3 FOR REVISION 3 ONLY

△2 FOR REVISION 2 ONLY

△1 FOR REVISION 1 ONLY

△6 FOR REVISION 6 ONLY

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

AS-BUILT CERTIFICATION
I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR — DATE 5/15/2013
MD REG. NO. 21297, EXPIRATION DATE: 06-16-15

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

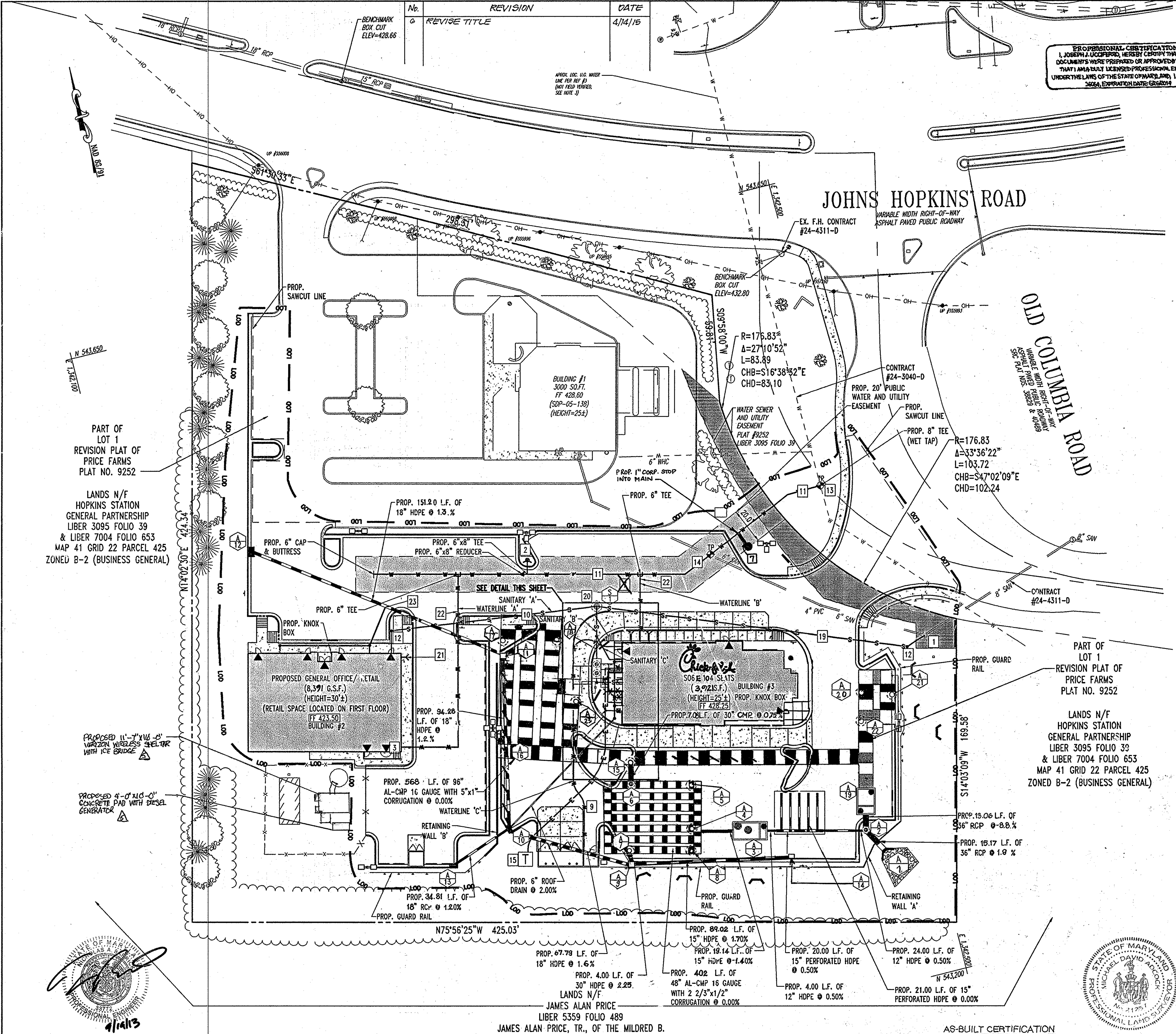
MISS UTILITY
BEFORE YOU DIG CALL 1-800-257-7777 PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

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

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

M:\GIS\chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/9/2007 8:01:10 AM, rgadfrey

No.	REVISION	DATE
6	REVISE TITLE	4/14/15



PROFESSIONAL CERTIFICATION
I, JOSEPH J. UCCIFERRO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36064, EXPIRATION DATE: 6/26/2014

6-18-13

4 FOR REVISION 4 ONLY

3 FOR REVISION 3 ONLY

2 FOR REVISION 2 ONLY

1 FOR REVISION 1 ONLY

5 FOR REVISION 5 ONLY

9/16/13

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 33772, Expiration Date: 6-16-15

GENERAL NOTE:
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AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR — 5/15/2013 DATE
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

UTILITY PLAN DESIGN NOTES & KEY PLAN

1. THE CONTRACTOR SHALL PROVIDE THE NECESSARY FITTINGS TO CONNECT THE NEW SERVICE LINE EXTENSION TO THE PROPOSED SEWER MANHOLE (BY OTHERS). THE CONTRACTOR SHALL VERIFY SIZE, LOCATION, MATERIAL AND INVERT ELEVATION PRIOR TO INSTALLING ANY SEWER FACILITIES. MINOR ADJUSTMENTS TO THE NEW SERVICE LINE INVERT ELEVATION MAY BE NECESSARY DEPENDING UPON FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD VERIFY INVERTS PRIOR TO CONSTRUCTION & NOTIFY OWNER IF THERE IS ANY DISCREPANCY.

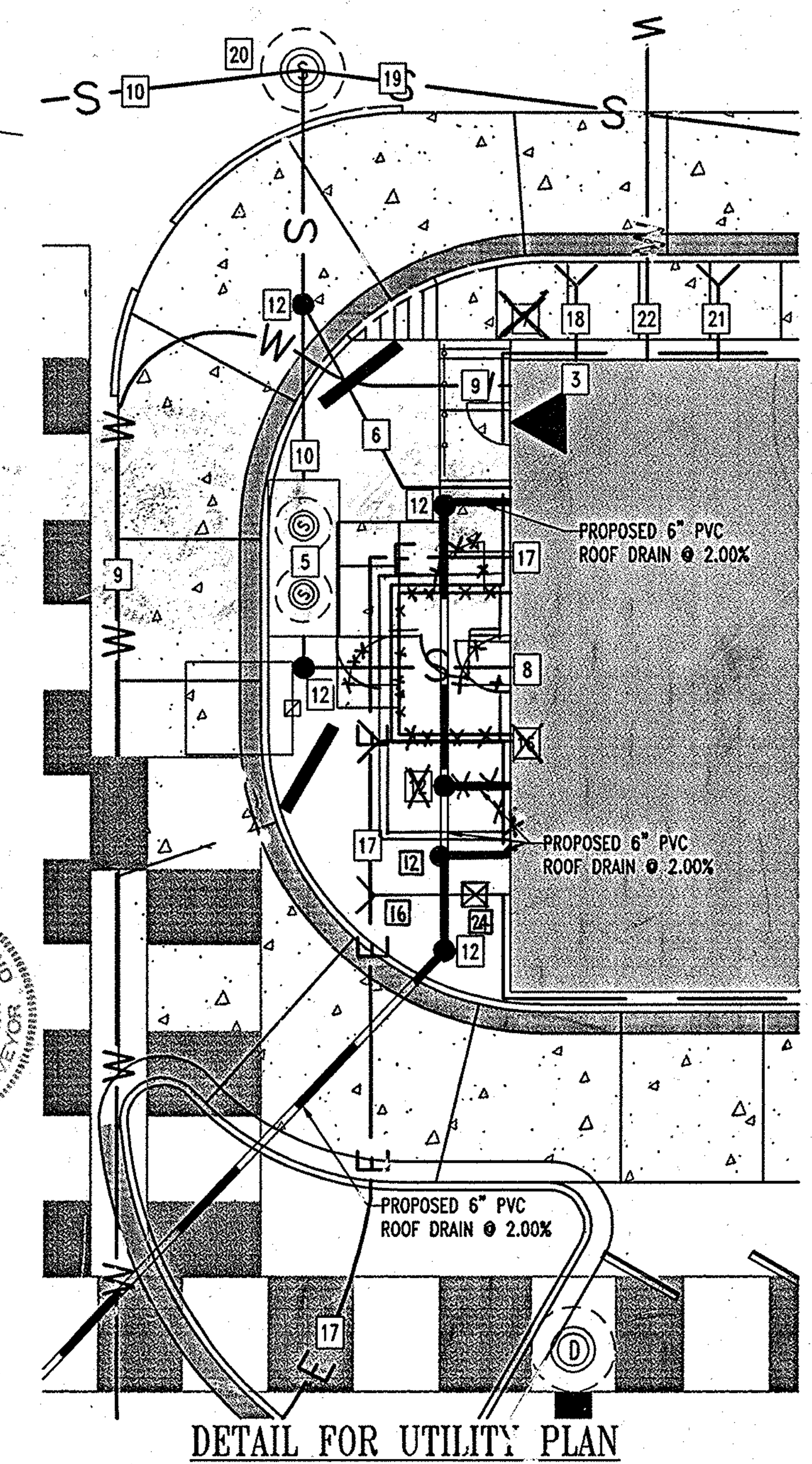
   CAUTION/WARNING

   THE CONTRACTOR SHALL USE EXTREME CAUTION TO PROPERLY SHEET, SHORE, AND DEWATER EXCAVATION TO COMPLETE THE CONNECTION IN A SAFE MANNER, AND WITHOUT DAMAGE OR SETTLEMENT TO EXISTING FACILITIES, ROAD OR SHOPPING CENTER DRIVE.
2. PROPOSED PUBLIC FIRE HYDRANT
3. 1-1/2" WATER METER FOR DOMESTIC WATER. (TO BE LOCATED INSIDE OF THE BUILDING. SEE ARCHITECTURALS FOR DETAIL)
4. PROPOSED SANITARY MANHOLE
5. 1,000 GALLON GREASE TRAP AND VENT LINES TO BE INSTALLED BY SITE UTILITY CONTRACTOR. COORDINATE INSTALLATION WITH BUILDING CONTRACTOR AND ARCHITECTURAL PLUMBING PLANS. CONNECT RESTROOM SERVICE LINE DOWNSTREAM OF GREASE TRAP OUTLET SIDE AT INVERT ELEVATION INDICATED. COORDINATE TOP ELEVATION OF GREASE TRAP WITH GRADING PLAN. MANHOLE TOPS SHALL BE SET 0.2' MIN. ABOVE GRADE. GREASE TRAP SHALL BE HOWARD COUNTY DPW STD.
6. 4" SEWER LATERAL AND CLEANOUT FROM RESTROOM FACILITIES TO BE INSTALLED BY SITE UTILITY CONTRACTOR. COORDINATE INSTALLATION WITH BUILDING CONTRACTOR AND ARCHITECTURAL PLUMBING PLANS. BATHROOM LATERAL SHALL BY-PASS GREASE TRAP AND CONNECT BEYOND THE OUTLET SIDE.
7. ~~DOMESTIC 1-1/2" TYPE "K" COPPER DRY TAP WATER SERVICE LINE LOCATION. SITE UTILITY CONTRACTOR SHALL INSTALL DOMESTIC WATER SERVICE LINE FROM THE PROPOSED WATER METER TO THE MAIN BUILDING CUTOFF VALVE. (SEE ARCHITECT PLUMBING PLAN).~~ 1" WATER LINE TYPE "K" COPPER FOR IRRIGATION WITH 3/4" METER.
8. 4" KITCHEN LATERAL. INSTALL CLEANOUT APPROXIMATELY 10' FROM FACE OF BUILDING. COORDINATE WITH BUILDING CONTRACTOR AND ARCHITECTURAL PLUMBING PLANS. CONNECT KITCHEN LATERAL TO GREASE TRAP.
9. INSTALL 3/4" TYPE "K" COPPER WATER SERVICE (HOT & COLD) TO TRASH ENCLOSURE.
10. INSTALL 4" SCH 40 SANITARY SEWER PVC @ 2.00% SLOPE (MIN.) SEE PROFILES FOR ACTUAL DESIGN AND SLOPE.
11. PROPOSED PUBLIC WATER SERVICE (SEE PLANS BY BOHLER ENGINEERING, P.C. TITLED "PUBLIC WATER EXTENSION, HOPKINS STATION" DATED 12/12/06. CONTRACT NO. 44-4469-D.
12. PROPOSED CLEANOUT
13. CONTRACTOR TO TEST PIT FOR EXACT LOCATION AND INVERT OF WATER SERVICE CONNECTION. CONTRACTOR TO NOTIFY BOHLER ENGINEERING P.C. IMMEDIATELY WITH ANY DISCREPANCIES.
14. CONTRACTOR TO TEST PIT FOR EXACT LOCATION AND INVERT OF SANITARY SEWER SERVICE CONNECTION. CONTRACTOR TO NOTIFY BOHLER ENGINEERING P.C. IMMEDIATELY WITH ANY DISCREPANCIES.
15. PROPOSED ELECTRIC TRANSFORMER
16. GAS SERVICE (CONTRACTOR TO COORDINATE EXACT LOCATION WITH RESPECTIVE UTILITY COMPANY)
17. ELECTRIC SERVICE (CONTRACTOR TO COORDINATE EXACT LOCATION WITH RESPECTIVE UTILITY COMPANY)
18. TELEPHONE SERVICE (CONTRACTOR TO COORDINATE EXACT LOCATION WITH RESPECTIVE UTILITY COMPANY)
19. PROPOSED PRIVATE 6" SDR 35 PVC SANITARY SEWER
20. PROPOSED SANITARY DROP MANHOLE
21. PROPOSED FIRE DEPARTMENT SIAMESE CONNECTION
22. PROPOSED 6" FIRE HOUSE CONNECTION
23. CONTRACTOR TO MAKE FIELD CONNECTION INTO STORMDRAIN SYSTEM
24. GAS METER LOCATION

AS-BUILT

UTILITY NOTES

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



DETAIL FOR UTILITY PLAN
SCALE: 1"=10'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF-DEVELOPMENT ENGINEERING DIVISION — 7/9/07 DATE
CHIEF-DIVISION & LAND DEVELOPMENT — 8/3/07 DATE
DIRECTOR — 8/8/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
for Peter Beilenson — 8/2/07
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT — DATE

NO.	DATE	REVISION DESCRIPTION
5	7/26/13	PROPOSED VERIZON LOCATION
4	6/06/13	LENGTH OF STORAGE PIPE REVISION
3	4/7/08	SIZE & AREA REVISED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS POST LOCATIONS

OWNER:	DEVELOPER:
HOPKINS STATION GENERAL PARTNERSHIP C/O BRANTLY DEVELOPMENT GROUP 8835 COLUMBIA 100 PARKWAY, SUITE P COLUMBIA, MD 21045 PHONE: (410) 730-0810	CHICK-FIL-A 5200 BUFFINGTON ROAD ATLANTA, GA 30349-2998 C/O SCOTT PATMAN PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

UTILITY PLAN

FOR REVISION 6 ONLY

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

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

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
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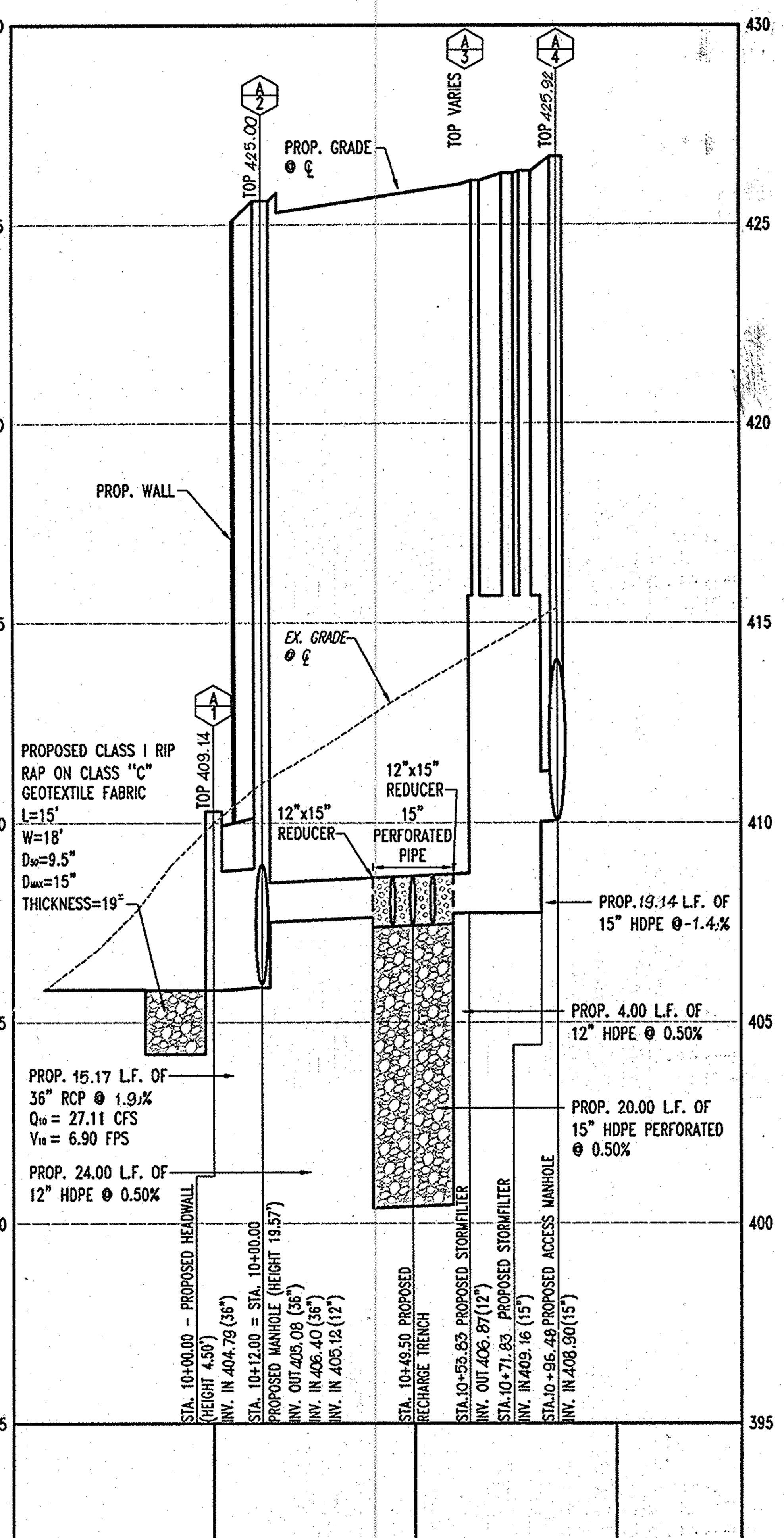
DRAWING NO.	6 OF 28

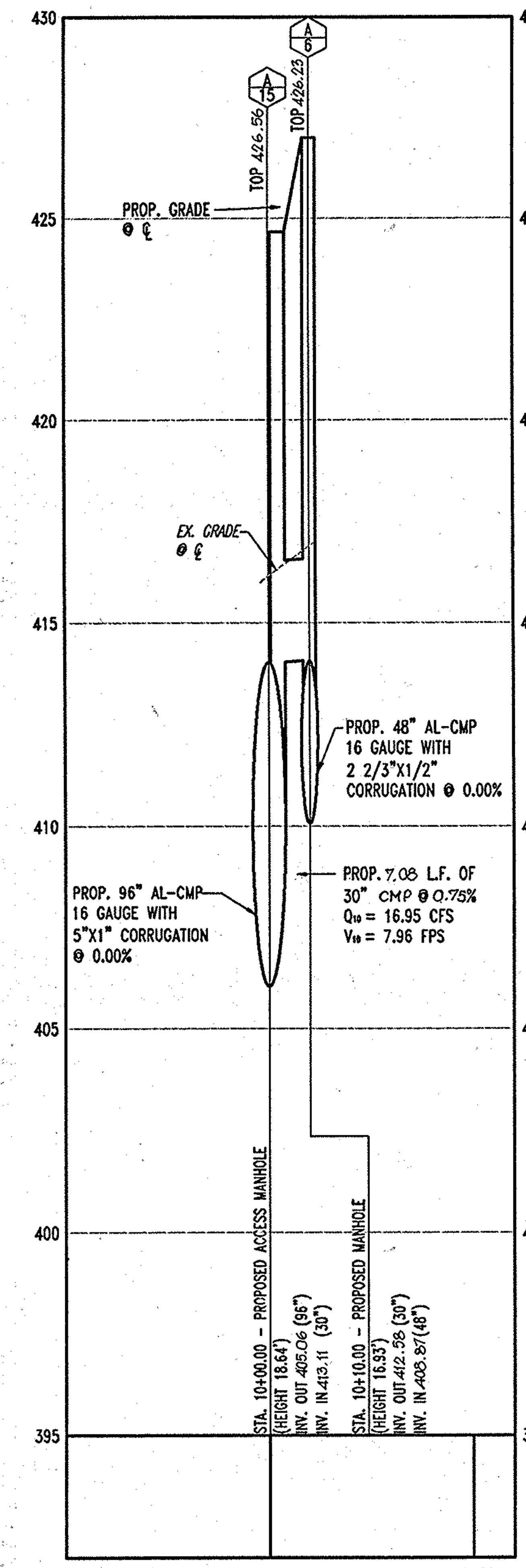
SDP # 07-033

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 9:01:16 AM, rgodfrey



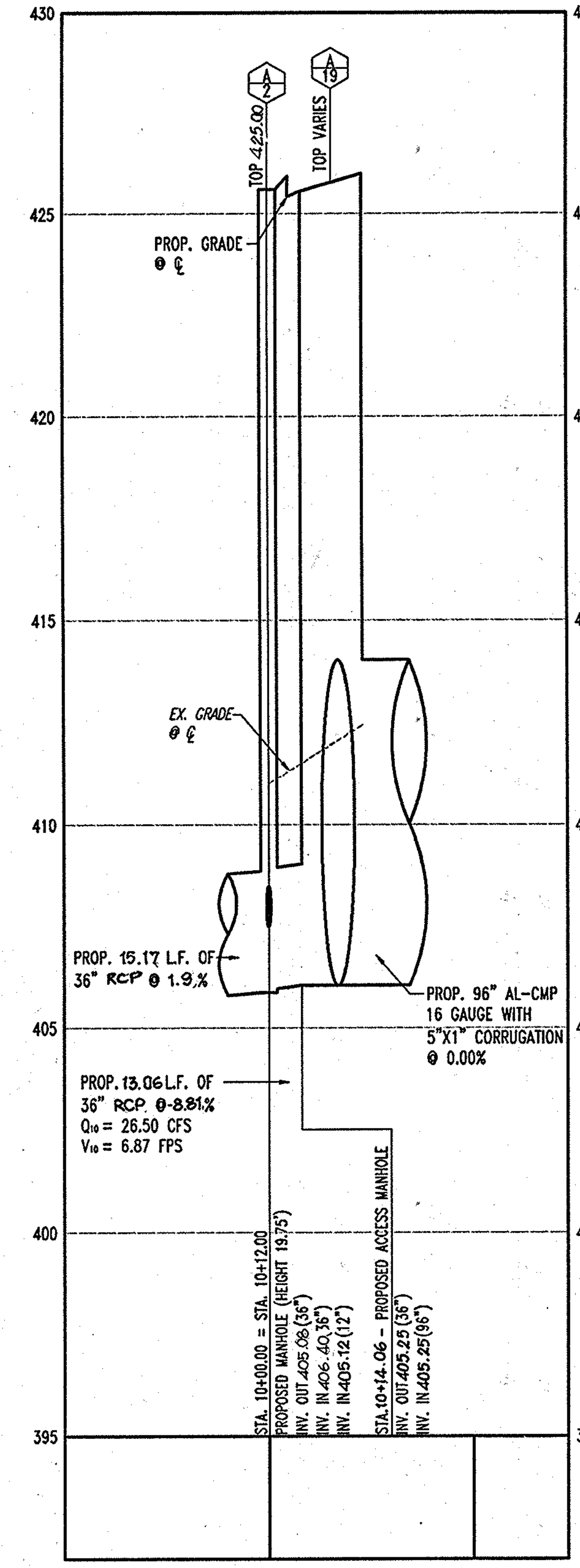
STORMDRAIN PROFILE A-1 TO A-4

SCALE: HORZ. 1"=30'
VERT. 1"=3'



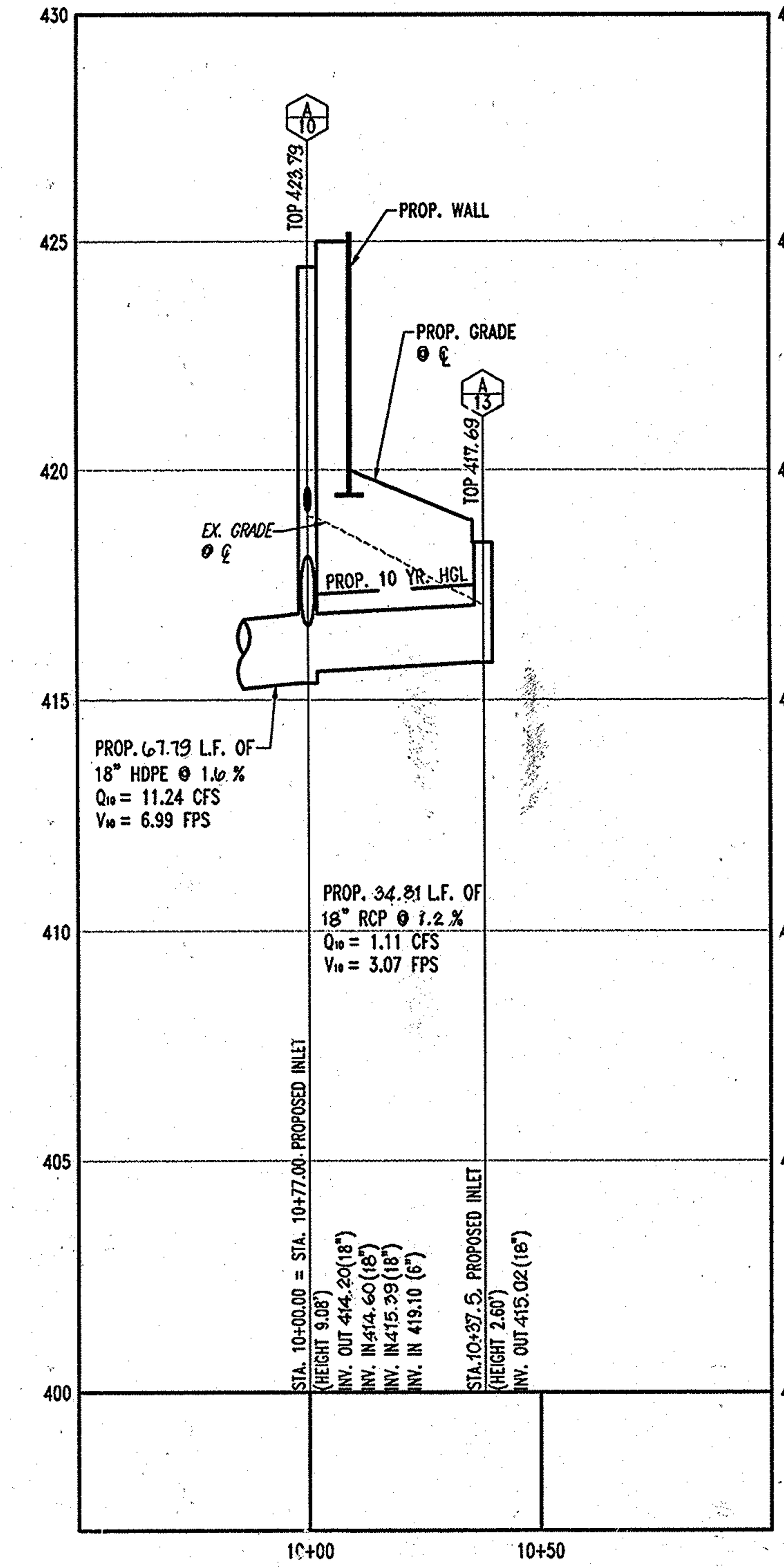
STORMDRAIN PROFILE A-15 TO A-6

SCALE: HORZ. 1"=30'
VERT. 1"=3'



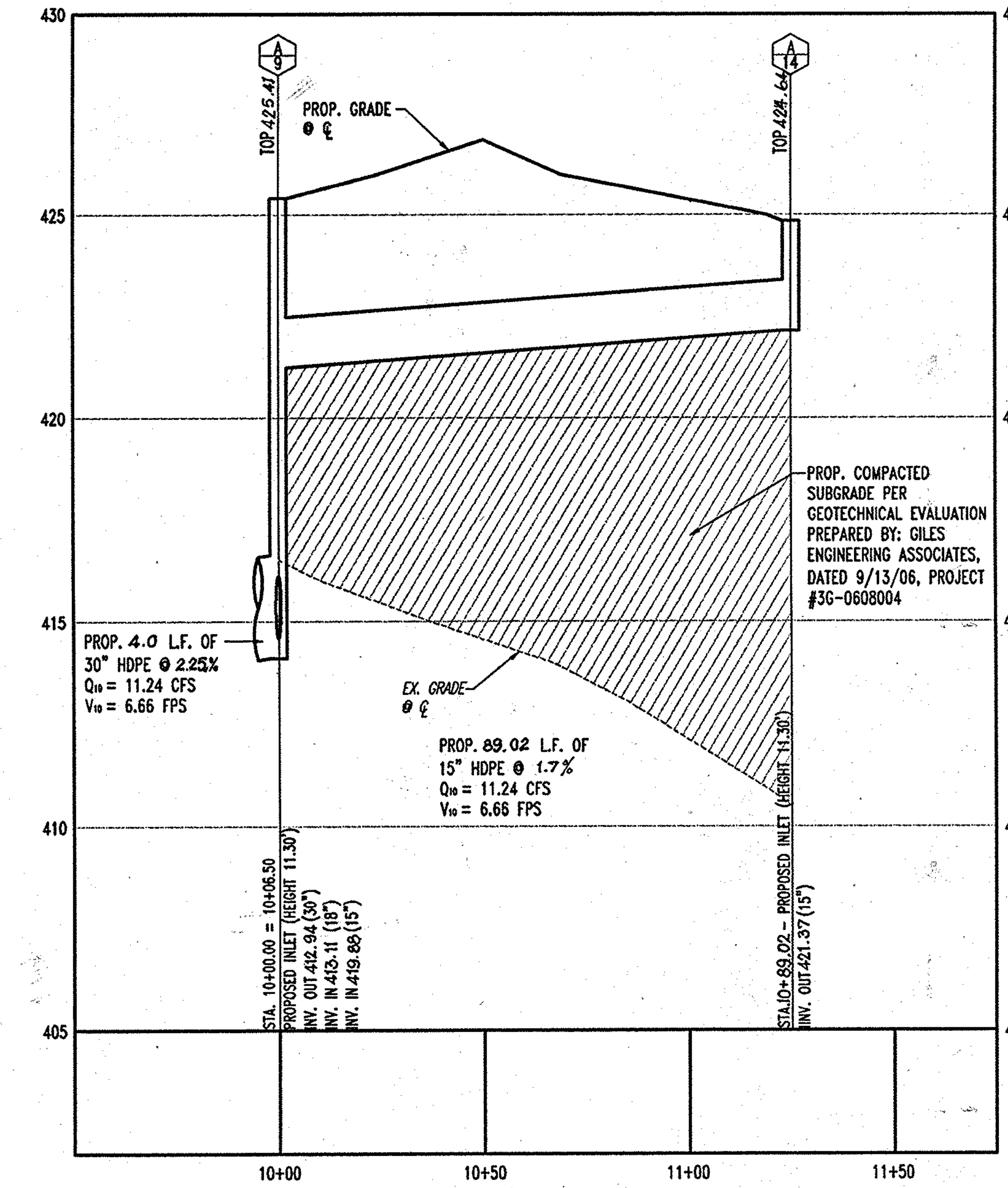
STORMDRAIN PROFILE A-2 TO A-19

SCALE: HORZ. 1"=30'
VERT. 1"=3'



STORMDRAIN PROFILE A-10 TO A-13

SCALE: HORZ. 1"=30'
VERT. 1"=3'



STORMDRAIN PROFILE A-9 TO A-14

SCALE: HORZ. 1"=30'
VERT. 1"=3'

AS-BUILT CERTIFICATION

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MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/13/2013
DATE

PIPE SCHEDULE

SIZE	DESCRIPTION	LENGTH
6"	D.I.P.	105 L.F.
1-1/2"	COPPER TYPE 'K'	105 L.F.
3/4"	COPPER TYPE 'K'	145 L.F.
6"	PVC	126 L.F.
4"	PVC	205 L.F.

PIPE SCHEDULE

SIZE	DESCRIPTION	LENGTH
96"	AL-CMP	568 L.F.
48"	AL-CMP	402 L.F.
30"	CMP	7 L.F.
30"	HDPE	4 L.F.
12"	HDPE	29 L.F.
18"	HDPE	313 L.F.
18"	RCP	35 L.F.
15"	PERFORATED HDPE	107 L.F.
15"	HDPE	108 L.F.
36"	RCP	28 L.F.

STORM STUCTURE SCHEDULE

STRUCTURE#	DESCRIPTION	RIM/GRATE	INV. IN	INV. OUT
A-1	TYPE 'A' HEADWALL (HOWARD COUNTY STD. SD-5.11)	409.14	404.79 (36")	--
A-2	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	425.50	405.12 (12") 406.40 (36")	405.08 (36")
A-3	PRECAST 8'x18' STORMFILTER	VARIES	409.16 (15")	406.87 (12")
A-4	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	425.92	408.90 (48")	408.90 (15")
A-5	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	426.70	409.00 (48")	409.00 (48")
A-6	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	426.23	408.87 (48")	412.85 (30")
A-7	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	425.03	412.87 (30")	409.05 (48") 409.05 (48")
A-8	PROP. MANHOLE (HOWARD COUNTY STD. G-5.11)	425.59	408.83 (48")	408.83 (48")
A-9	PROP. INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.22)	425.41	413.11 (18") 419.88 (15")	412.94 (30")
A-10	PROP. INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.22)	423.79	414.60 (18") 415.39 (18") 419.10 (6")	414.20 (18")
A-11	PROP. INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.22)	424.82	416.65 (18")	416.61 (18")
A-12	PROP. DOUBLE INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.23)	421.16	--	417.12 (18")
A-13	PROP. INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.22)	417.69	--	415.02 (15")

STORM STUCTURE SCHEDULE (CONTINUED)

STRUCTURE#	DESCRIPTION	RIM/GRATE	INV. IN	INV. OUT
A-14	PROP. INLET TYPE 'S' (HOWARD COUNTY STD. SD-4.22)	424.64	--	421.37 (15")
A-15	PROP. 36" ACCESS MANHOLE	426.56	413.11 (30")	405.06 (96")
A-16	PROP. 36" ACCESS MANHOLE	425.05	405.28 (96")	405.28 (96")
A-17	PROP. 36" ACCESS MANHOLE	424.48	405.29 (96")	405.29 (96")
A-18	PROP. 36" ACCESS MANHOLE	425.48	405.61 (96")	405.61 (96")
A-19	PROP. OUTLET STRUCTURE	VARIES	405.25 (96")	405.25 (36")
A-20	PROP. 36" ACCESS MANHOLE	426.37	405.69 (96")	405.69 (96")
A-21	PROP. 36" ACCESS MANHOLE	426.41	406.09 (96")	406.09 (36")
A-22	PROP. 36" ACCESS MANHOLE	425.94	405.55 (96")	405.55 (96")
A-23	PROP. 36" ACCESS MANHOLE	426.37	405.35 (96")	405.35 (96")

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

⚠1 FOR REVISION 1 ONLY

6-18-13

⚠4 FOR REVISION 4 ONLY

PROFESSIONAL CERTIFICATION
I, JOSEPH J. UCCIFERRO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36064, EXPIRATION DATE: 6/26/2014

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER

FOR REVISION 5 ONLY

MISS UTILITY

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

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — 7/9/07 DATE
CHIEF-DIVISION & LAND DEVELOPMENT — 8/3/07 DATE
DIRECTOR — 8/6/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT — 8/2/07 DATE

NO.	DATE	REVISION DESCRIPTION
5	4/14/15	REVISE TITLE
4	6/06/13	LENGTH OF STORAGE PIPE REVISION
1	12/06/07	CORRECT PIPE MATERIAL & MANHOLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

UTILITY PROFILES

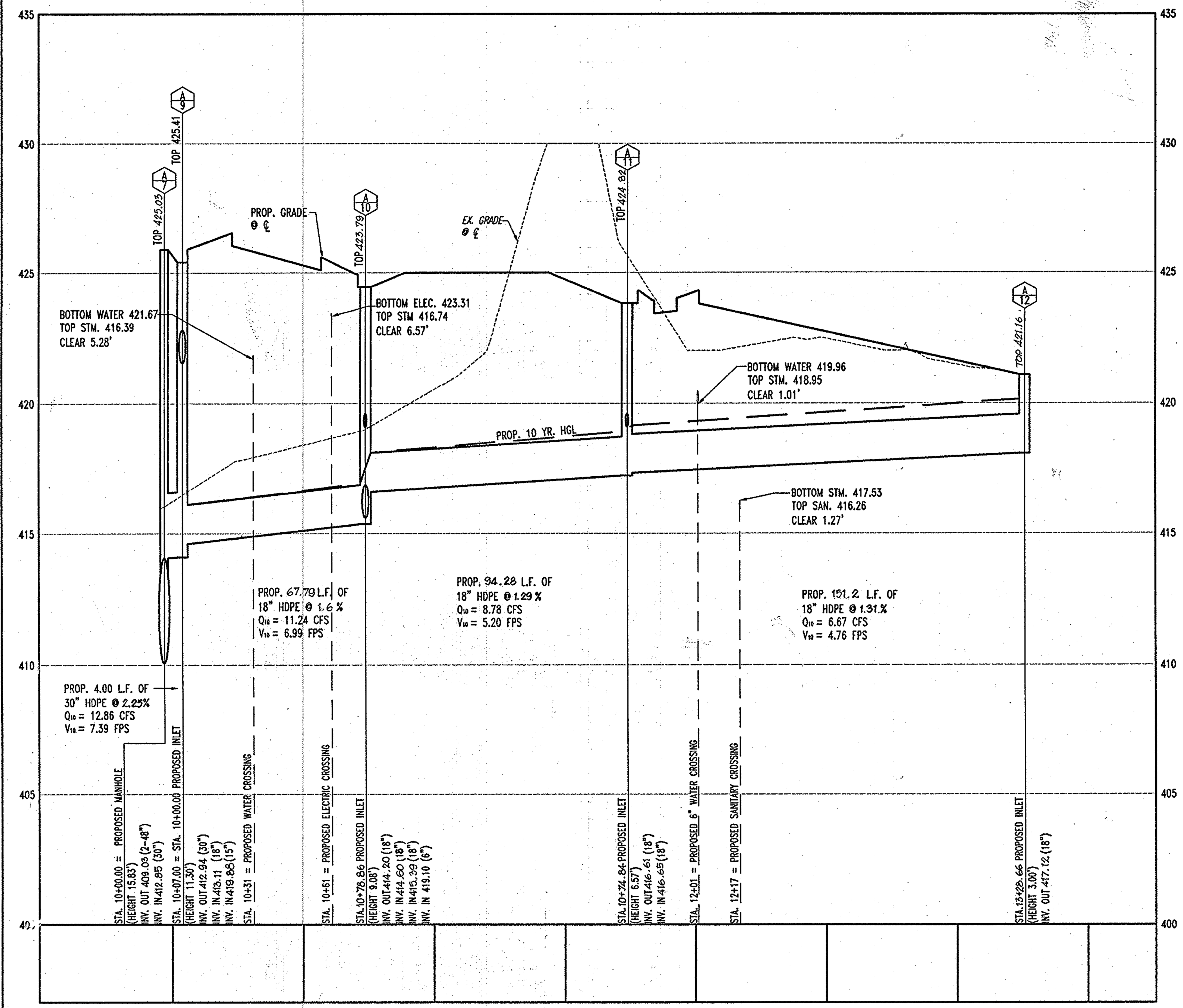
BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900 FAX (410) 821-7987 | MD@bohlereng.com•

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	7 OF 28

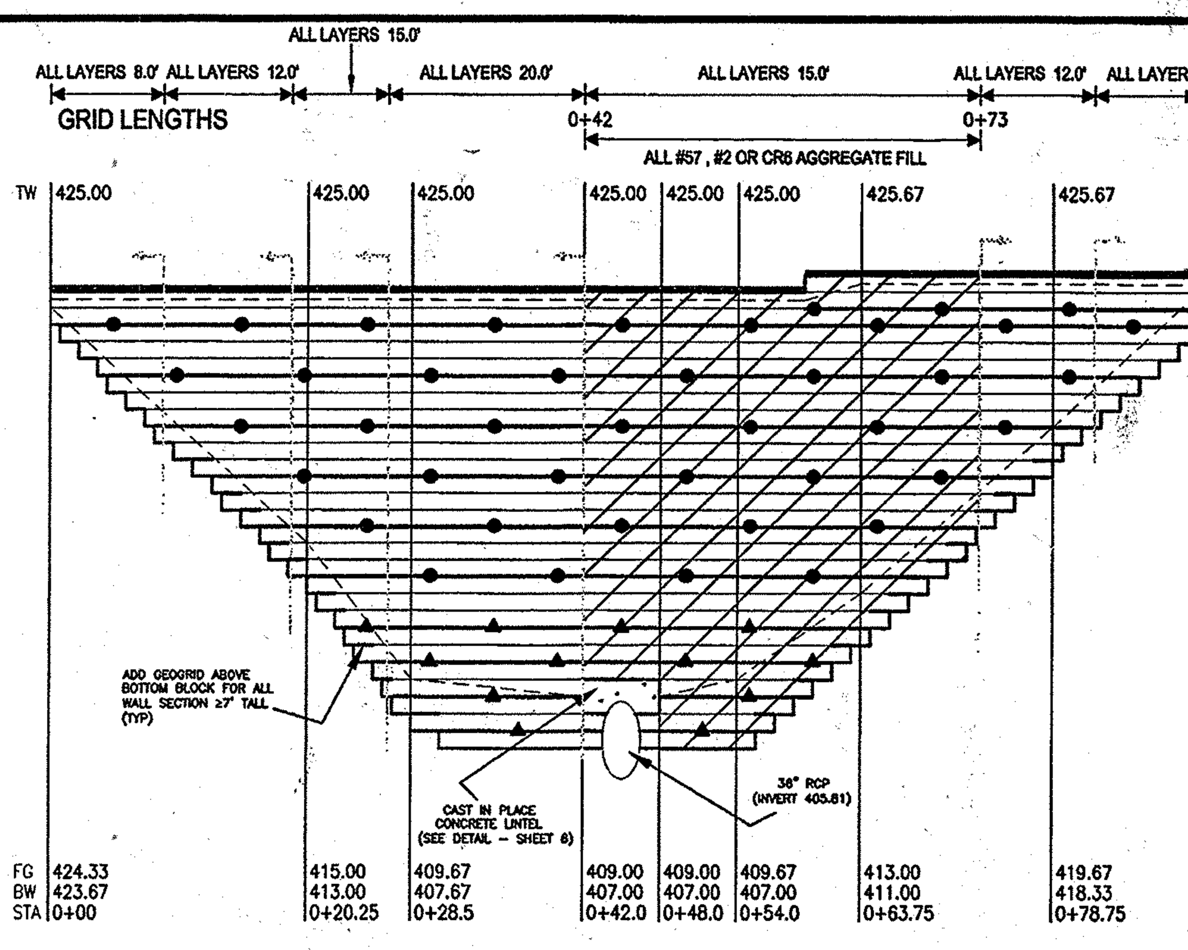
SDP # 07-033

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 9:01:21 AM, rgodfrey



STORMDRAIN PROFILE A-7 TO A-12

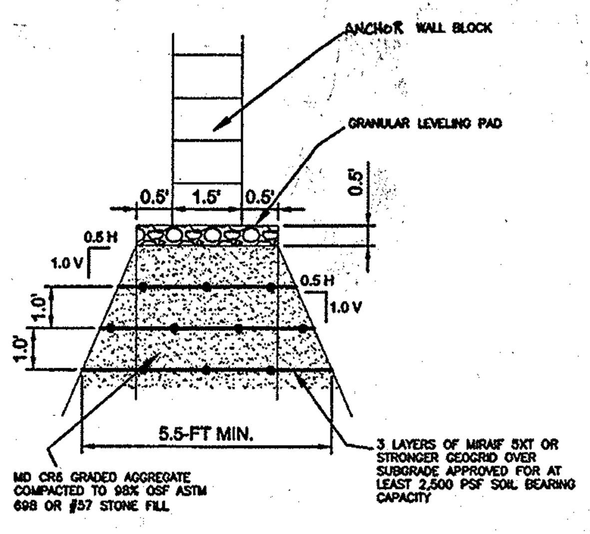
SCALE: HORZ. 1"=30'
VERT. 1"=3'



SCALE : H. 1"=10' V. 1"=5'

TW = TOP OF WALL (NOT INCLUDING CAP)
FG = PROPOSED FINISHED GRADE AT BASE OF WALL
BW = BOTTOM OF BLOCK / TOP OF LEVELING PAD
STA = WALL STATION

GRID KEY: MIRAFI 3XTc OR STRONGER (●)
MIRAFI 5XTc OR STRONGER (▲)



FOUNDATION SUBGRADE DETAIL FOR WALLS OVER 17-FT TOTAL HEIGHT
NTS

CIS ENGINEERING, INC.
A division of CIS, Inc.
31 Sycolin Road, S.E.
Leesburg, VA 20175
Phone: (703) 669-9052
Fax: (703) 534-2107

Number:	Description	By	Checked	Date
1	CHANGED BLOCK TYPE	JLW	TMG	11/14/2007

STATE OF MARYLAND – TIMOTHY M. GARY – No. 22108 – PROFESSIONAL ENGINEER
Stamp & Signature

CHICK-FIL-A – HOPKKINS STATION
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY. MD

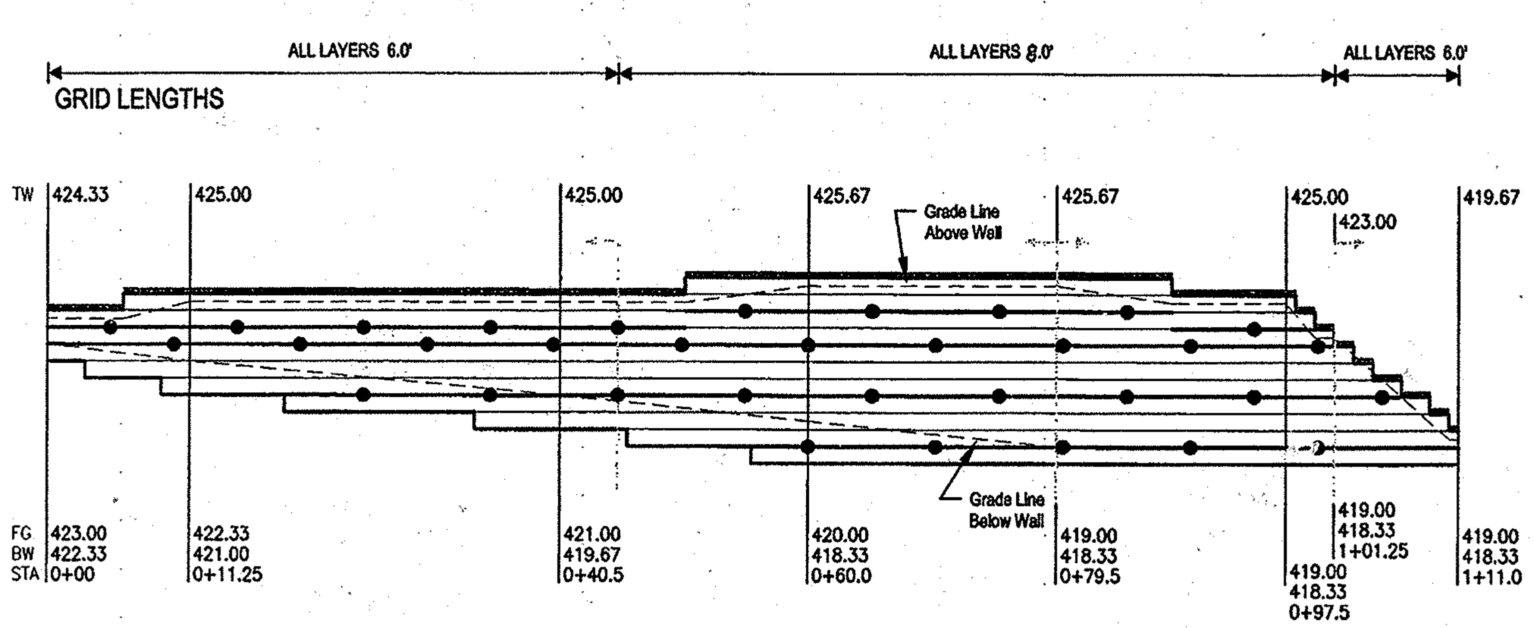
KEYSTONE LANDSCAPE RETAINING WALL
WALL ELEVATION: WALL #A

01/09/07 TMG SHEET: 2 OF 7

GRID KEY: MIRAFI 3XTc OR STRONGER

SCALE : H. 1"=10' V. 1"=5'

TW = TOP OF WALL (NOT INCLUDING CAP)
FG = PROPOSED FINISHED GRADE AT BASE OF WALL
BW = BOTTOM OF BLOCK / TOP OF LEVELING PAD
STA = WALL STATION



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A division of CIS, Inc.
31 Sycolin Road, S.E.
Leesburg, VA 20175
Phone: (703) 669-9052
Fax: (703) 534-2107

Number:	Description	By	Checked	Date
1	CHANGED BLOCK TYPE	JLW	TMG	11/14/2007

STATE OF MARYLAND – TIMOTHY M. GARY – No. 22108 – PROFESSIONAL ENGINEER
Stamp & Signature

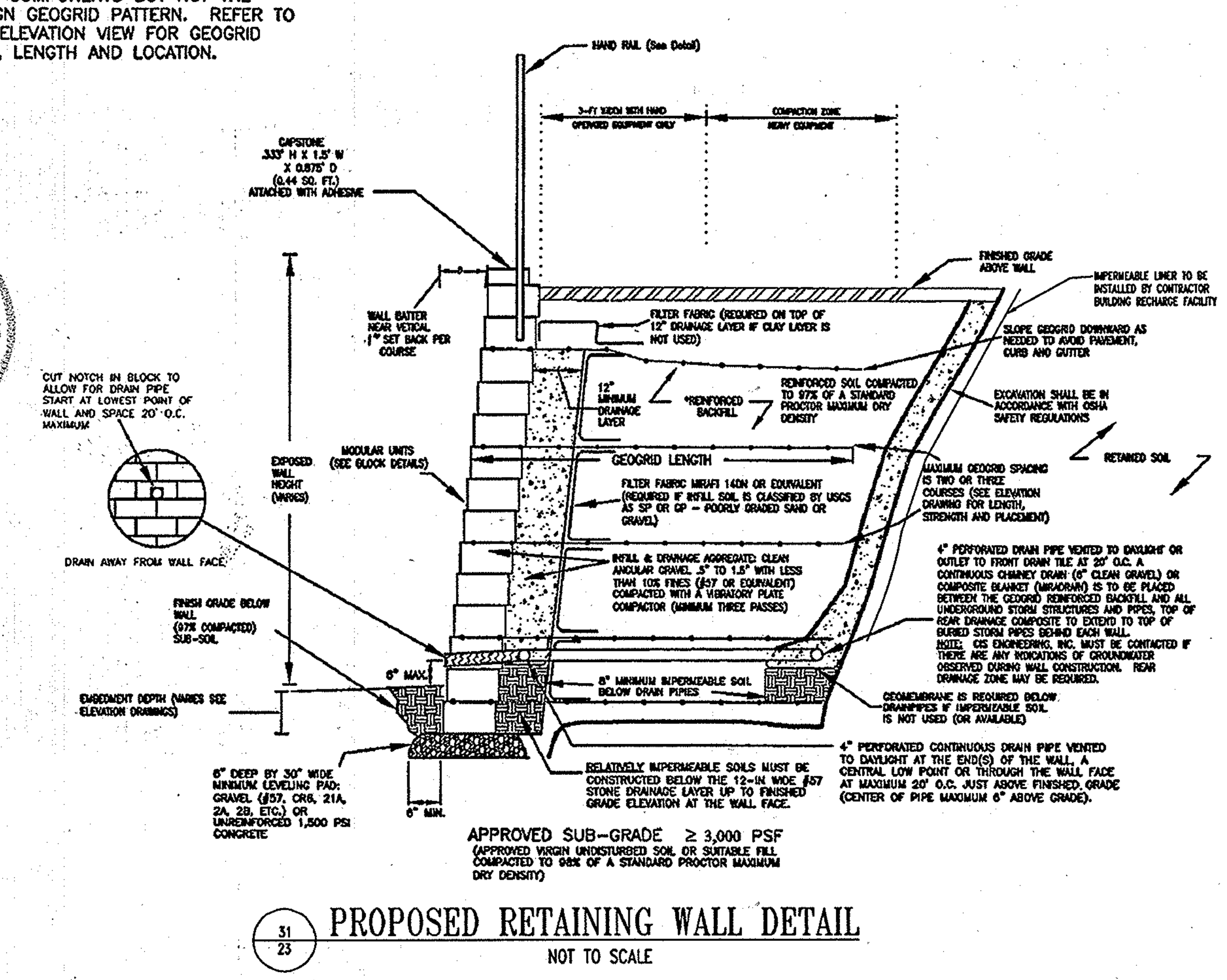
CHICK-FIL-A – HOPKKINS STATION
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY. MD

KEYSTONE LANDSCAPE RETAINING WALL
WALL ELEVATION: WALL #B

01/09/07 TMG SHEET: 3 OF 7

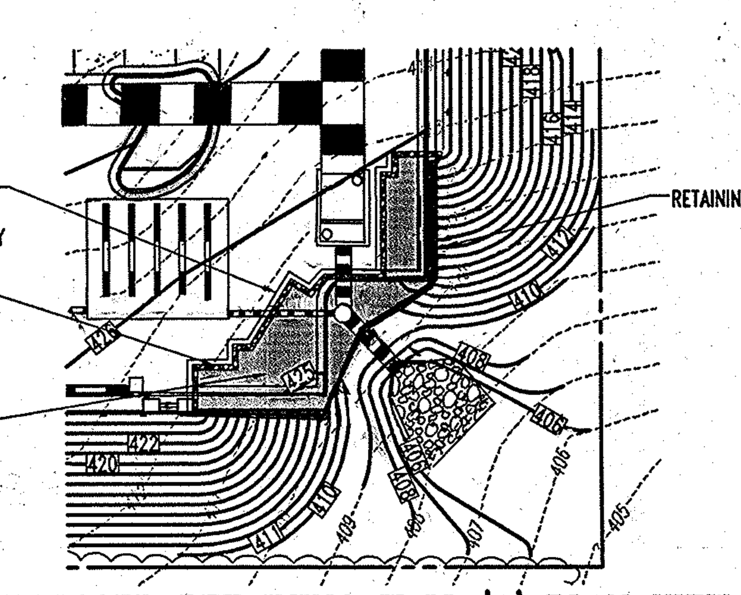
⚠ FOR REVISION 1 ONLY

NOTE: THIS SECTION SHOWS TYPICAL WALL COMPONENTS BUT NOT THE DESIGN GEOGRID PATTERN. REFER TO THE ELEVATION VIEW FOR GEOGRID TYPE, LENGTH AND LOCATION.



APPROVED SUB-GRADE ≥ 3,000 PSF
(APPROVED VIRGIN UNDISTURBED SOIL OR SUITABLE FILL COMPACTED TO 98% OF A STANDARD PROCTOR MAXIMUM DRY DENSITY)

31/23 PROPOSED RETAINING WALL DETAIL
NOT TO SCALE



PROPOSED RETAINING WALL 'A' PLAN VIEW
SCALE: 1"=30'

STATE OF MARYLAND – MICHAEL DAVID ADCOCK – PROFESSIONAL LAND SURVEYOR

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

[signature] 5/15/2013
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR DATE
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

GENERAL NOTE:
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STATE OF MARYLAND – PAUL M. SILL – No. 32025 – PROFESSIONAL ENGINEER
FOR REVISION 2 ONLY

MISS UTILITY

DIG WITH C.A.R.E. – CALL MISS UTILITY – KEEP MARYLAND SAFE

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[signature] 7/19/07
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

[signature] 8/3/07
CHIEF-DIVISION & LAND DEVELOPMENT DATE

[signature] 8/8/07
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Nylon for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
2	4/14/15	REVISE TITLE
1	12/06/07	REVISED RET. WALL BLOCK MATERIAL

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

UTILITY PROFILES

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

STATE OF MARYLAND – MATTHEW T. ALLEN – PROFESSIONAL ENGINEER
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	8 OF 28

SDP # 07-033

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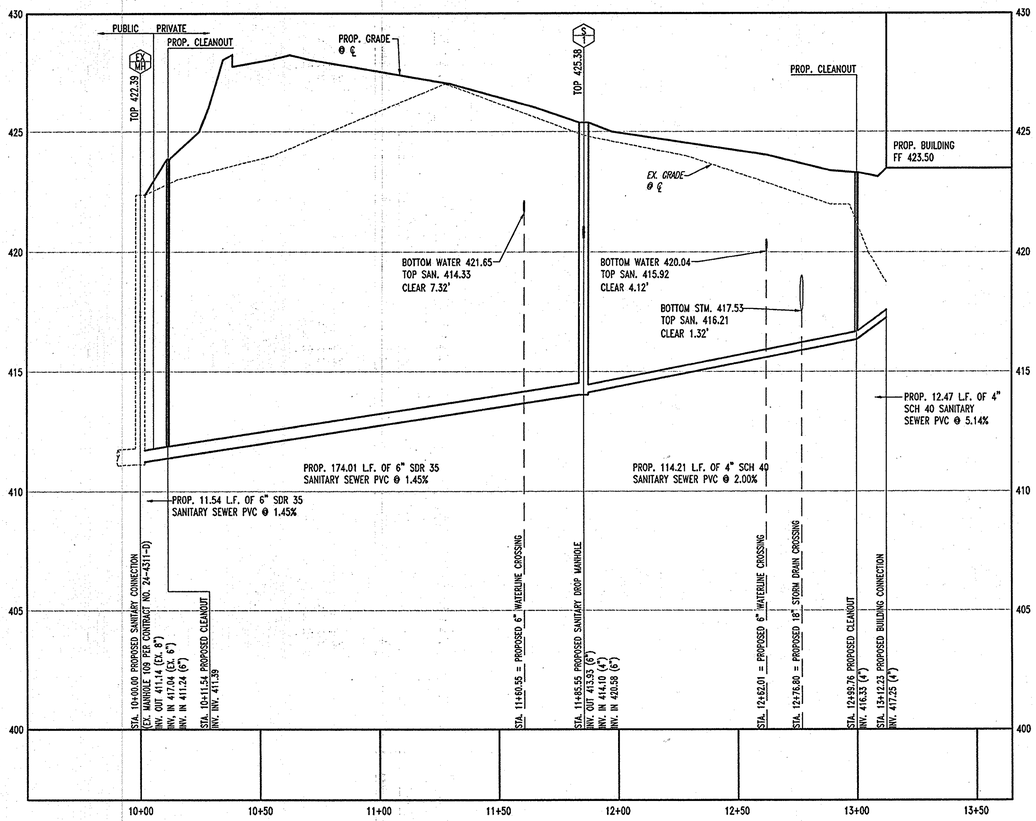
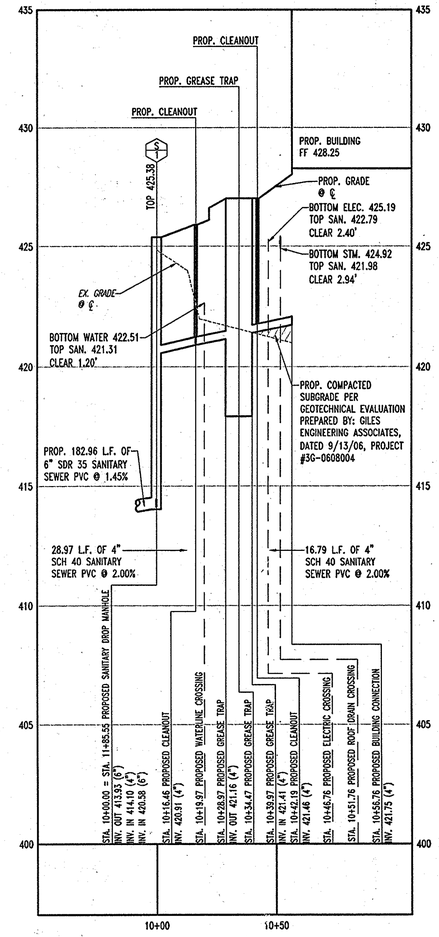


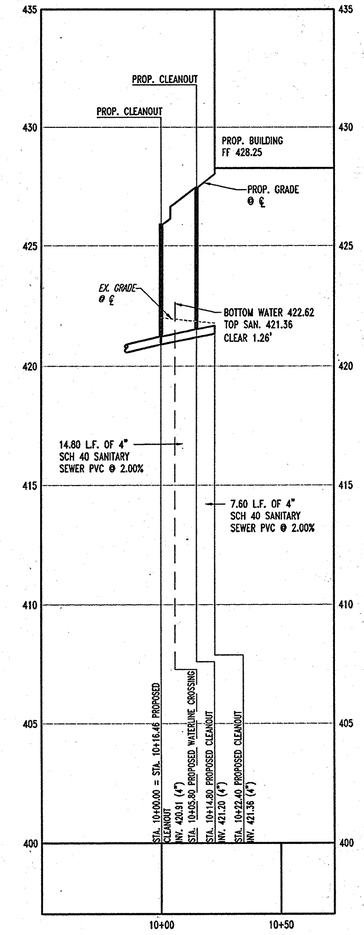
PROPOSED SANITARY PROFILE 'A'

SCALE: HORZ. 1"=30'
VERT. 1"=3'



PROPOSED SANITARY PROFILE 'B'

SCALE: HORZ. 1"=30'
VERT. 1"=3'



PROPOSED SANITARY PROFILE 'C'

SCALE: HORZ. 1"=30'
VERT. 1"=3'

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

STATE OF MARYLAND
MICHAEL DAVID ADCOCK
No. 21257
PROFESSIONAL LAND SURVEYOR

MISS UTILITY

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PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

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STATE OF MARYLAND
PAUL M. SILL
No. 32025
PROFESSIONAL ENGINEER
FOR CERTIFICATION ONLY

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AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/9/07

CHIEF-DIVISION OF LAND DEVELOPMENT — DATE 8/3/07

DIRECTOR — DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT — DATE 8/2/07

NO.:	DATE	REVISION DESCRIPTION
1	4/16/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

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LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

UTILITY PROFILES

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PROFESSIONAL ENGINEERING SERVICES
9110 GLENEAGLES COVERT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7987 | BOHLERENG.COM

STATE OF MARYLAND
MATTHEW T. FIELDS
No. 28567
PROFESSIONAL ENGINEER

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	9 OF 28

SDP # 07-033

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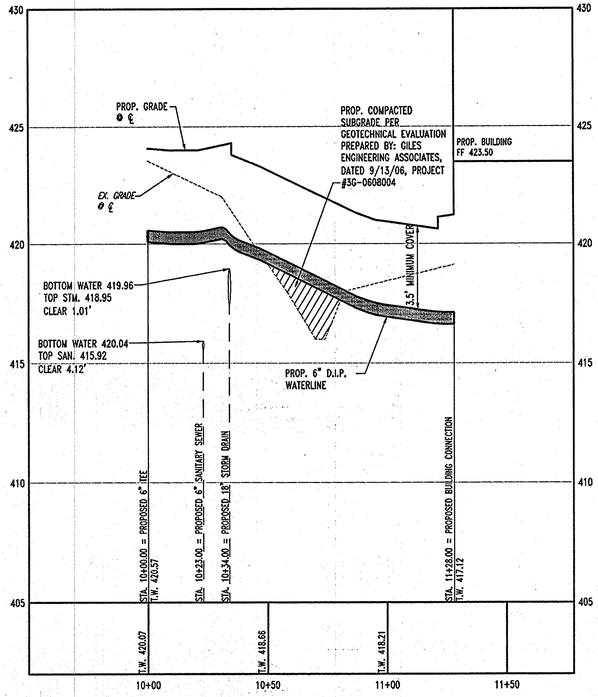
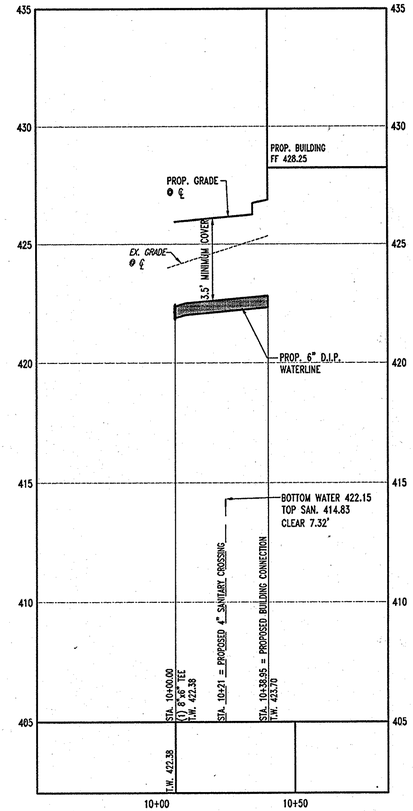


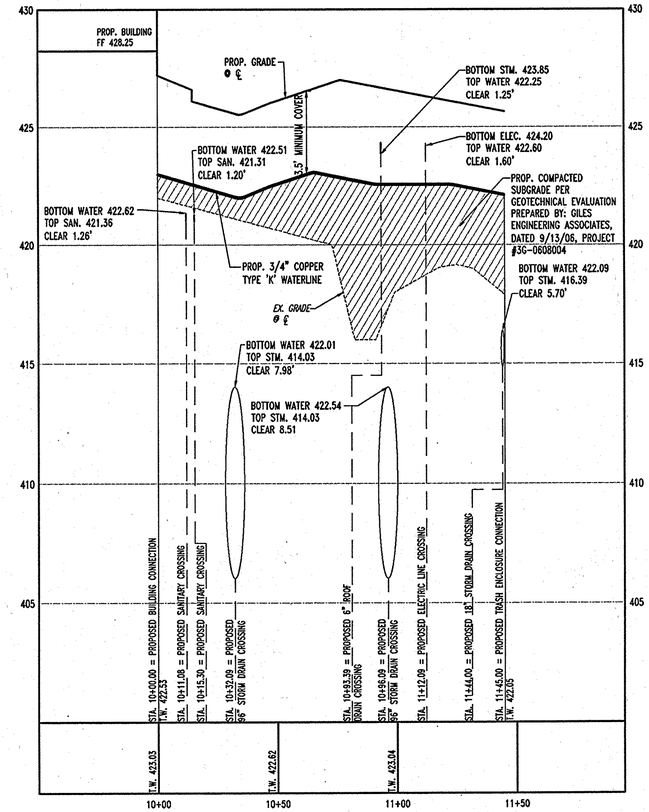
WATERLINE PROFILE 'A'

SCALE: HORZ. 1"=30'
VERT. 1"=3'



WATERLINE PROFILE 'B'

SCALE: HORZ. 1"=30'
VERT. 1"=3'



WATERLINE PROFILE 'C'

SCALE: HORZ. 1"=30'
VERT. 1"=3'

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 8/3/07
DIRECTOR	DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	DATE 8/27/07

NO.:	DATE	REVISION DESCRIPTION
1	4/19/18	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
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•(410) 821-7900 FAX (410) 821-7987 | BOHLER-eng.com •

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	10 OF 28

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-18

DATE 5/15/2018

STATE OF MARYLAND
MICHAEL DAVID ADCOCK
No. 21257
PROFESSIONAL LAND SURVEYOR

MISS UTILITY

CALL WITH C.A.R.E. BEFORE YOU DIG
MISS UTILITY
MARYLAND

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

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STATE OF MARYLAND
MATTHEW T. ALLEN
No. 32025
PROFESSIONAL ENGINEER

FOR REVISION 1 ONLY

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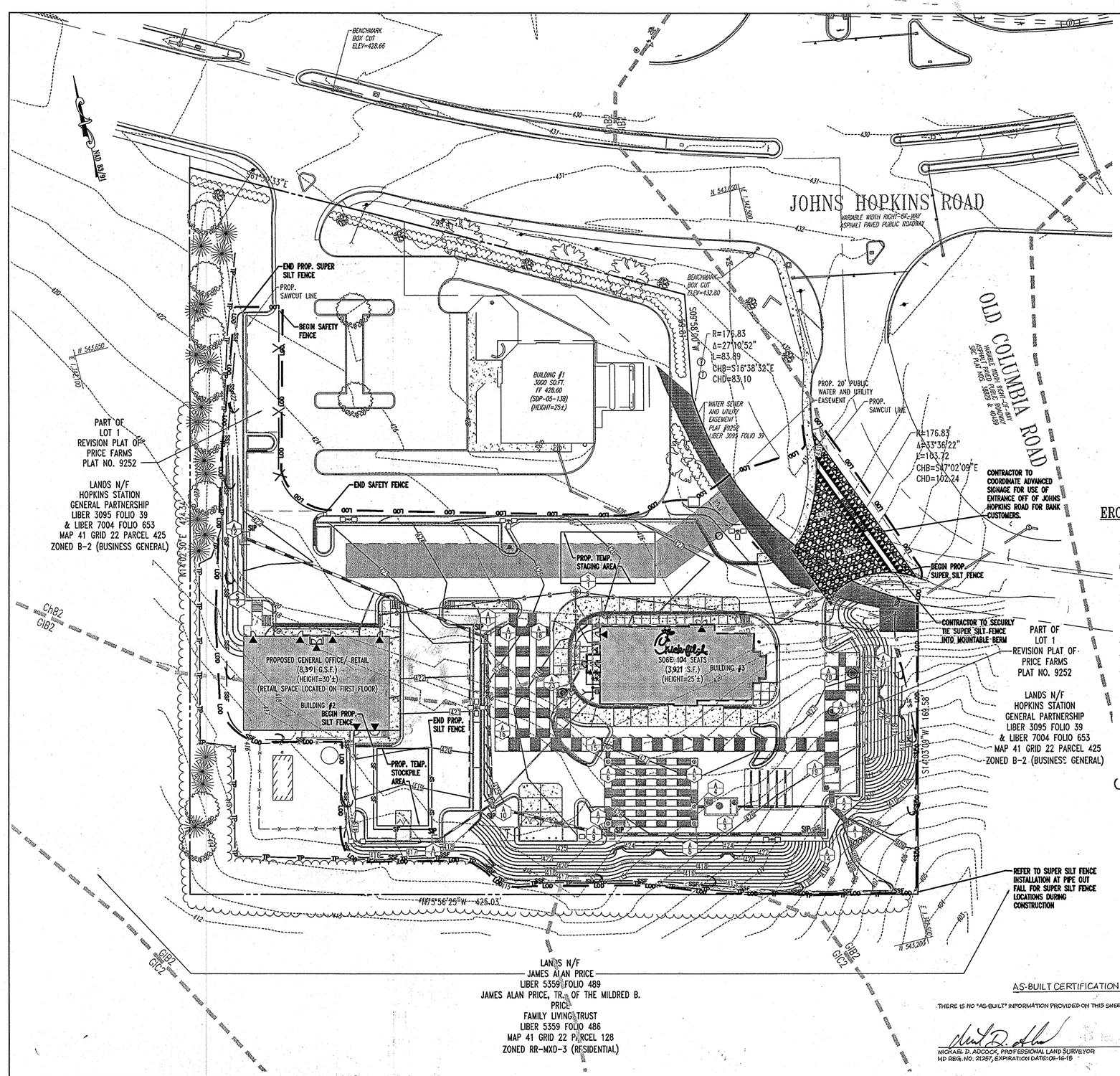
SDP # 07-033

M:\03\Chick-fil-a\M0056503\SITE SET\Rev 3\M0056502.1SS3.dwg, 7/3/2007 8:59:00 AM, rgadfrey



SOIL TYPES

ChB2	CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED
GlC2	GLENELG LOAM, 8-15% SLOPES, MODERATELY ERODED

EROSION AND SEDIMENT CONTROL QUANTITIES

LIMIT OF DISTURBANCE = 85,344 S.F. OR 1.96 AC.

TOTAL NET SITE AREA = 156,380 S.F. OR 3.59 AC.±

TOTAL IMPERVIOUS AREA = 91,912 S.F. OR 2.11 A.C

AREA TO BE VEGETATELY STABILIZED = 64,468 S.F. OR 1.48 AC.

CUT = 130 CU. YARDS

FILL = 12,640 CU. YARDS

SUPER SILT FENCE = 900 L.F.

SILT FENCE = 128 L.F.

SAFETY FENCE = 134 L.F.

TREE PRETECTION = 773 L.F.

STABILIZED CONSTRUCTION ENTRANCE = 1 EA.

STANDARD INLET PROTECTION = 6 EA.

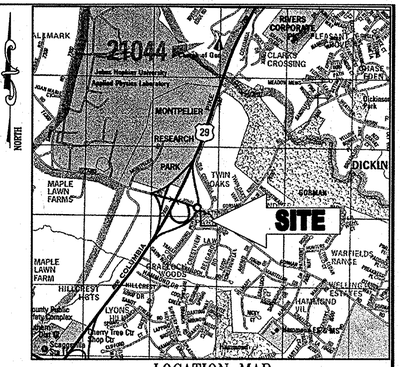
NOTE:
1. THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.

2. ALL REQUIRED FILL TO BE IMPORTED FROM AN APPROVED SITE THAT HAS A FUNCTIONING SEDIMENT CONTROL PROGRAM IN PLACE.

3. CONTRACTOR TO LIMIT THE AMOUNT OF THE SIDEWALK CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY TO THAT WHICH CAN BE COMPLETED WITHIN ONE WORKING DAY. THE CONTRACTOR IS RESPONSIBLE FOR ELIMINATING ANY SEDIMENT CREATED AT THE END OF EACH DAY.

EROSION AND SEDIMENT CONTROL LEGEND

SIP	STANDARD INLET PROTECTION
SF	SILT FENCE
SSF	SUPER SILT FENCE
LOD	LIMIT OF DISTURBANCE
SCE	STABILIZED CONSTRUCTION ENTRANCE
MOUNTABLE BERM	MOUNTABLE BERM
391	PROPOSED CONTOURS
227	EXISTING CONTOURS
X	PROPOSED SAFETY FENCE



LOCATION MAP

COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20602153-5
SCALE: 1"=2000'

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT, CONTACT HOWARD COUNTY SEDIMENT CONTROL DIVISION AT (410) 313-1855 (1 DAY)
2. PRIOR TO DEMOLITION, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE. (1 DAY)
3. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO DEMOLITION, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBANCE. (2 DAYS)
4. INSTALL PROPOSED STABILIZED CONSTRUCTION ENTRANCE. (2 DAYS)
5. INSTALL PERIMETER SEDIMENT CONTROL DEVICES: SUPER SILT FENCE AS SHOWN ON PLAN. (3 DAYS)
6. ONCE THE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING, OR GRADING. (3 DAYS)
7. WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, BEGIN ROUGH GRADING AND CONSTRUCT RETAINING WALL ON THE SITE. (14 DAYS)
8. CONSTRUCT PROPOSED BUILDING, STORMFILTER, RECHARGE FACILITY, STORAGE PIPES AND UTILITIES. INSTALL ALL INLET PROTECTION AS INLETS ARE INSTALLED. (90 DAYS)
9. FINE GRADE ALL DISTURBED AREAS AND STABILIZE SITE. (14 DAYS)
10. INSTALL STONE SURFACE AND PAVEMENT BASE COURSE AND STABILIZE ALL DISTURBED AREA AS NECESSARY. (10 DAYS)
11. FINE GRADE ALL REMAINING AREAS. (5 DAYS)
12. INSTALL SURFACE PAVING. (5 DAYS)
13. INSTALL ALL LANDSCAPING. (5 DAYS)
14. INSTALL FILTER MEDIA WITHIN THE STORMFILTER. (1 DAY)
15. STABILIZE ALL ADDITIONAL DISTURBED AREAS AS REQUIRED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES. (2 DAYS)

AS-BUILT

2 FOR REVISION 2 ONLY

1 FOR REVISION 1 ONLY

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER

3 FOR REVISION 3 ONLY

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
USDA - NATURAL RESOURCES CONSERVATION SERVICE — DATE 7/17/07

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD SCD — DATE 7/17/07

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) — DATE 7/6/07
PRINT NAME: Matthew T. Allen, PE

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."

By: Hugh F. Cole, Jr. — DATE 07/06/07
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)
PRINT NAME: HUGH F. COLE, JR.

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21297 PROFESSIONAL LAND SURVEYOR

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21297, EXPIRATION DATE: 06-16-15 — DATE 9/17/2013

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER
FOR REVISION 4 ONLY

MISS UTILITY

DIG WITH C.A.R.E. MISS UTILITY 1-800-257-7777 MARYLAND

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

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

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 8/2/07
DIRECTOR	DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER, HOWARD COUNTY HEALTH DEPARTMENT — DATE 8/7/07

NO.:	DATE	REVISION DESCRIPTION
4	4/14/15	REVISE TITLE
3	09/07/08	SITE & BLDG. REVISED FOR CFA BLDG.
2	2/21/08	IRRIGATION LINE & CFA SERVICE WRD REVISION
1	12/06/07	REV. BLDG. AREA & ACCESS PER LANDTAKES

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LO11)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L 3,095, F. 39 & L 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

EROSION AND SEDIMENT CONTROL PLAN

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
10272 GUILFORD ROAD, SUITE 300, JESSUP, MD 20794
(410) 621-2310 FAX (410) 621-2601 WWW.BOHLER.NET

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	11 OF 28

SDP # 07-033

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

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

M:\DS\Chick-fil-a\M0056502\SITE SET\Rev 3\M0056502.1SS3.dwg, 7/9/2007 8:59:02 AM, rgodfrey

STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS:

1. CLASS OF TURFGRASS SOD SHALL BE MARYLAND STATE CERTIFIED, OR MARYLAND STATE APPROVED SOD.
2. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. 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.

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

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

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. (313-2231)
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 – 156,380 S.F. OR 3.59 AC.
   - AREA DISTURBED – 86,001 S.F. OR 1.97 AC.
   - TOTAL CUT – 130 CU. YDS.
   - TOTAL FILL – 12,640 CU. YDS.
   - OFFSITE WASTE/BORROW LOCATION – TO BE RELOCATED BY THE DEVELOPER TO AN APPROVED LOCATION WITH AN APPROVED PERMIT AND SEDIMENT CONTROL PLAN
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.

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

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, IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION & SEDIMENTATION CONTROL.

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

TEMPORARY SEEDING NOTES

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

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

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

SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/3 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ. FT.). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

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

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).

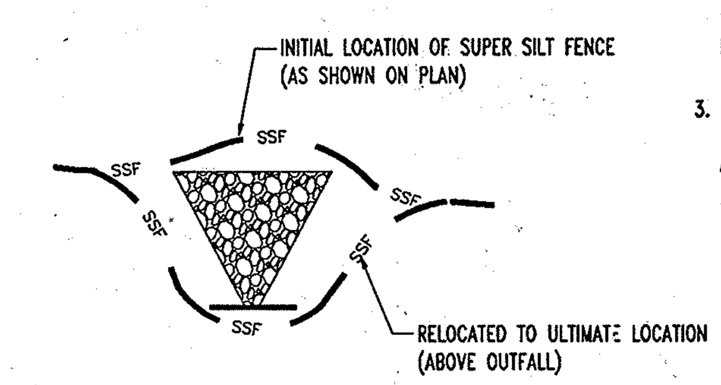
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

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.

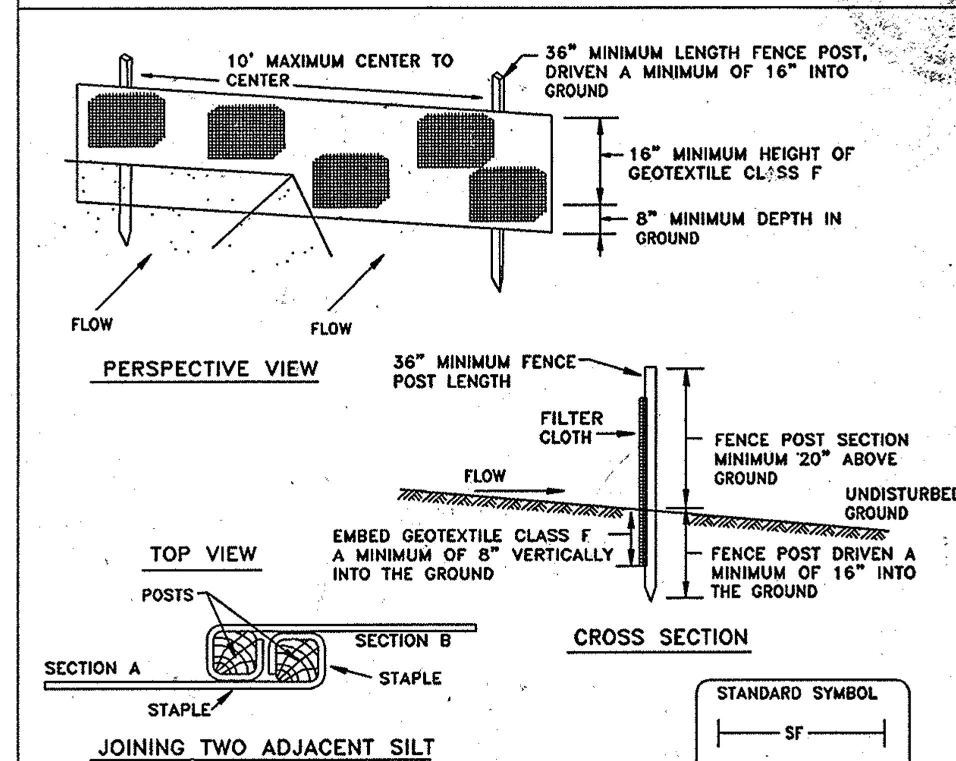


TYPICAL SUPER SILT FENCE INSTALLATION AT PIPE OUTFALL

NOT TO SCALE

FOR REVISION ONLY

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 FT / 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 - [illegible]	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATION GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

1. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
   A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
   B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
   C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
   D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
2. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

1. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SPECIFIED. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SET FORTH IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
2. TOPSOIL SPECIFICATIONS- SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOIL'S 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.

B. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUNDLIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

3. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES.

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

4. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

A. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

A.1. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 THAN 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.

A.2. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.

A.3. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

A.4. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

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

5. TOPSOIL APPLICATION

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

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

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

D. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

6. ALTERNATIVE FOR PERMANENT SEEDING – INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS COMMERCIAL BELOW:

A. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

A.1. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.

A.2. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

A.3. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

B. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTE. REVISED 1973.

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE 25					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	*SEEDING DATES	SEEDING DEPTHS	N	P_2O_5	K_2O	
9	TALL FESCUE (86%)	120 LBS./AC. 2.9 LBS./1,000 S.F.	3/1 – 5/15 8/15 – 10/15	1"	90 LB/AC (2.0 LB/ 1000 SF)	175 LB/AC (4 LB/ 1000 SF)	175 LB/AC (4 LB/ 1000 SF)	2 TONS/AC (100LB/ 1000 SF)
	PGA TRIVIALIS (7%)	10 LBS./AC. .23 LBS./1,000 S.F.		1"				
	BIRDSFOOT TREEFOIL (7%)	10 LBS./AC. .23 LBS./1,000 S.F.		1"				

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

TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE 26					FERTILIZER RATE (10-10-10)	LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
1	BARLEY	122 LBS./AC. 2.5 BU./1,000 S.F.	3/1 – 4/30 8/15 – 10/15	1"-2"	600 LB/AC (15 LB/ 1000 SF)	2 TONS/AC (100 LB/ 1000 SF)
2	ANNUAL RYEGRASS	50 LBS./AC. 1.15 BU./1,000 S.F.	3/1 – 4/30 8/15 – 11/1	1/4"-1/2"		
3	TALL FESCUE	120 LBS./AC.	3/1 – 5/15	1"		

NOTE: SOD IS TO BE USED ON ALL STABILIZATION WITHIN THE PROPERTY BOUNDARY

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) — 7/6/07 DATE

Matthew T. Allen, PE
PRINT NAME

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."

By: Hugh F. Cole, Jr. — 07/06/07
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) — DATE

HUGH F. COLE, JR
PRINT NAME

MISS UTILITY

DIG WITH C.A.R.E. — CALL MISS UTILITY — KEEP MARYLAND SAFE

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

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

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

AS-BUILT

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
Jim Myers — 7/17/07
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 — 7/17/07
HOWARD SCD — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
7/19/07
CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE
Cindy Hamilton — 8/3/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE
Marsha L. McLaughlin — 8/8/07
DIRECTOR — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
B Nixon for Peter Beilenson — 8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT 1780

NO.	DATE	REVISION DESCRIPTION
1	4/14/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

EROSION AND SEDIMENT CONTROL DETAILS

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

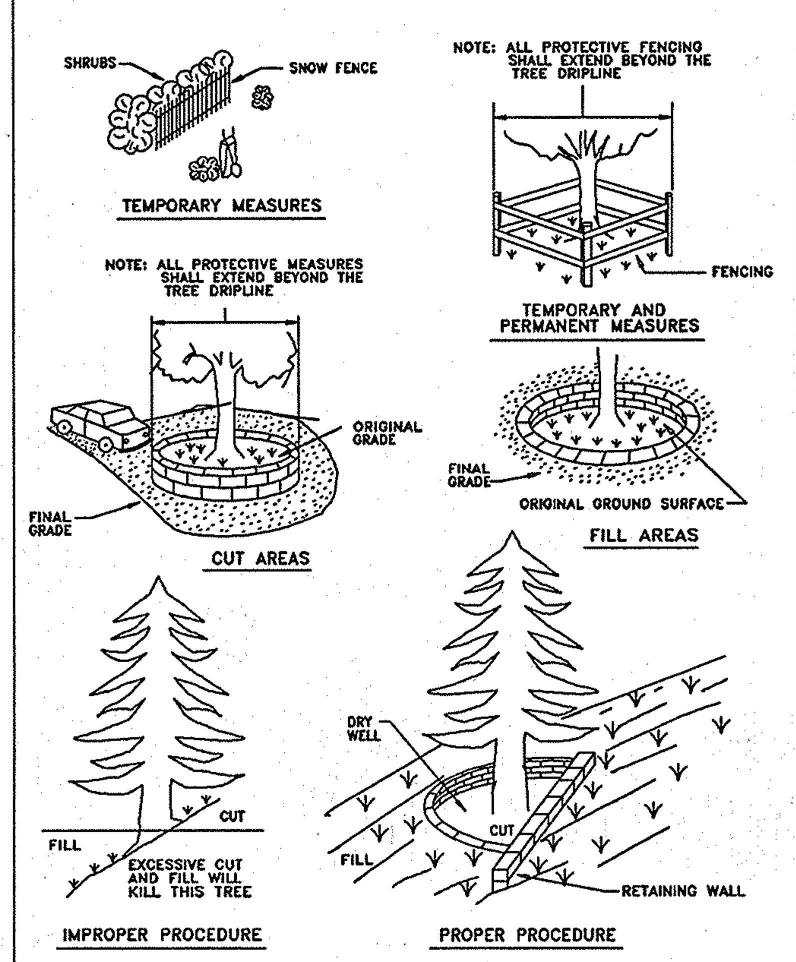
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	12 OF 28

SDP # 07-033

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 8:59:05 AM, rgodfrey

DETAIL 31 - TREE PROTECTION



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ROCK OUTLET PROTECTION

Construction Specifications

1. The subgrade for the filter, rip-rap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.

2. The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.

3. Geotextile shall be protected from punching, cutting, or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of geotextile over the damaged part or by completely replacing the geotextile. All overlaps whether for repairs or for joining two pieces of geotextile shall be a minimum of one foot.

4. Stone for the rip-rap or gabion outlets may be placed by equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for rip-rap or gabion outlets shall be delivered and placed in a manner that will ensure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Rip-rap shall be placed in a manner to prevent damage to the filter blanket or geotextile. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

5. The stone shall be placed so that it blends in with the existing ground. If the stone is placed too high then the flow will be forced out of the channel and scour adjacent to the stone will occur.

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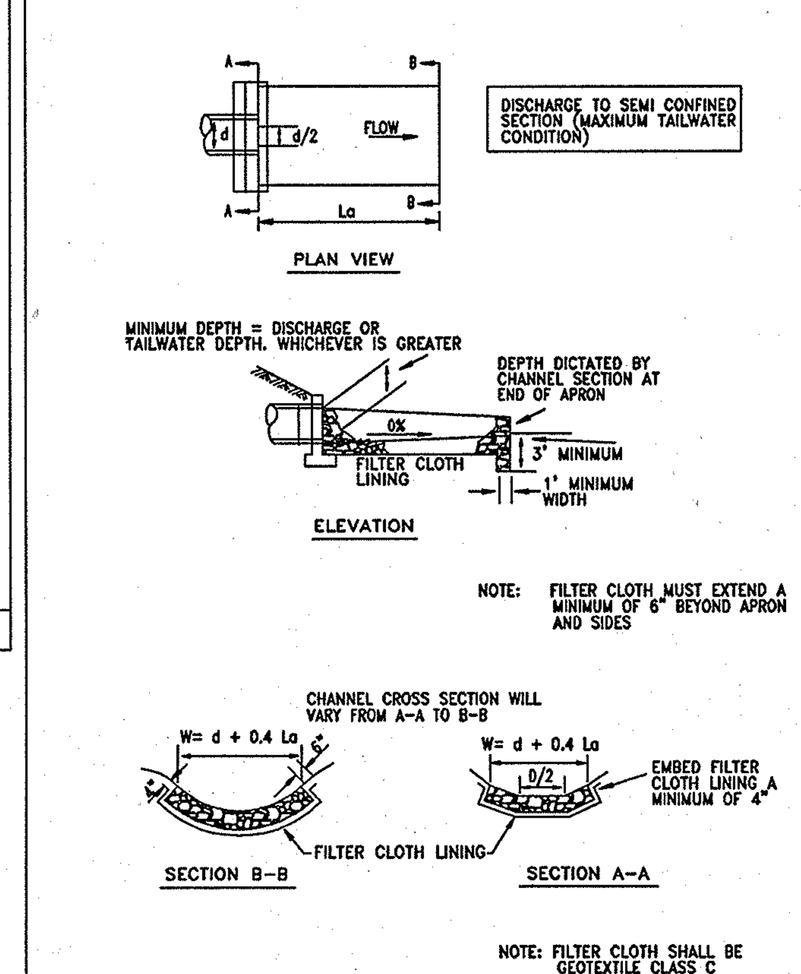
DETAIL 25 - ROCK OUTLET PROTECTION I



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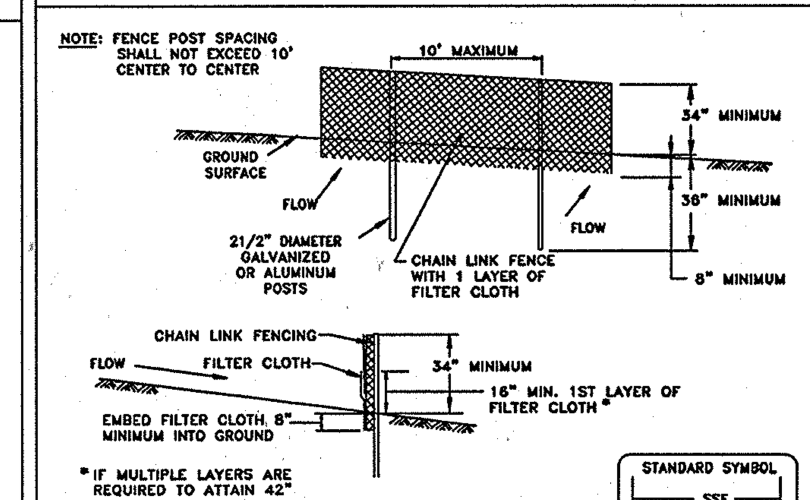
DETAIL 33 - SUPER SILT FENCE



Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

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

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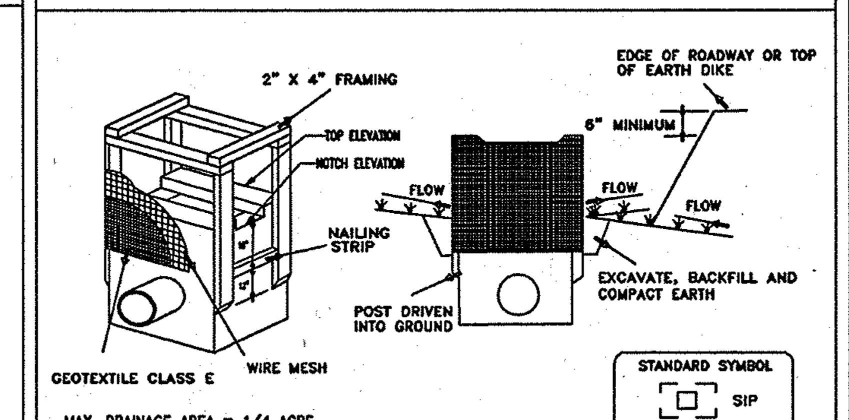
DETAIL 23A - STANDARD INLET PROTECTION



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.

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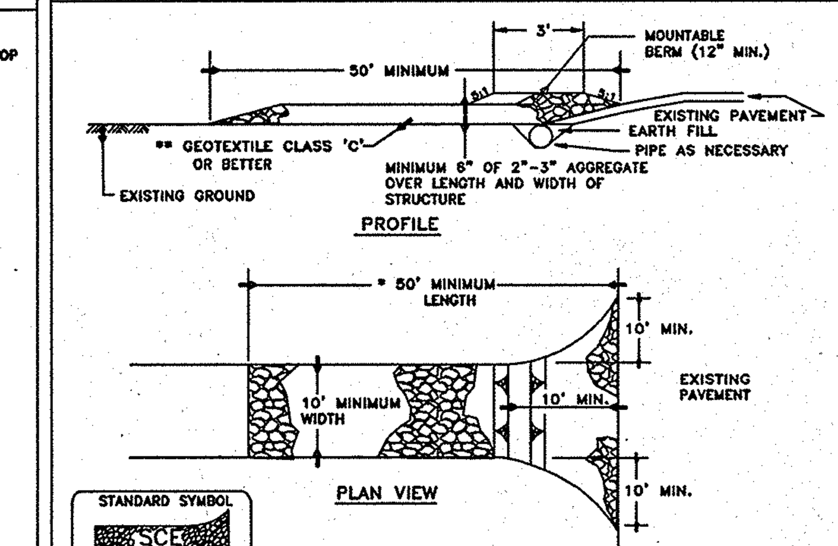
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



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.

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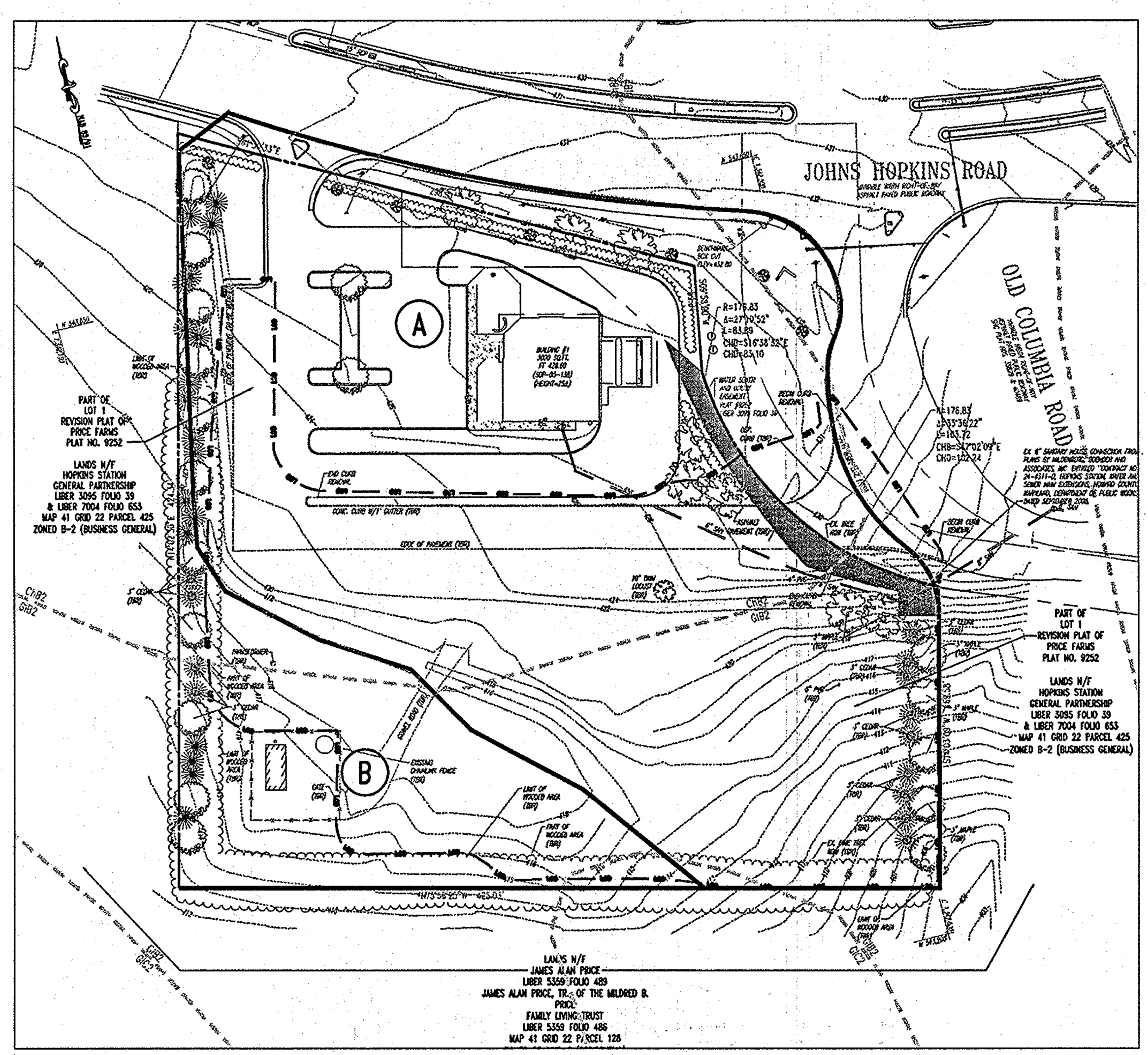
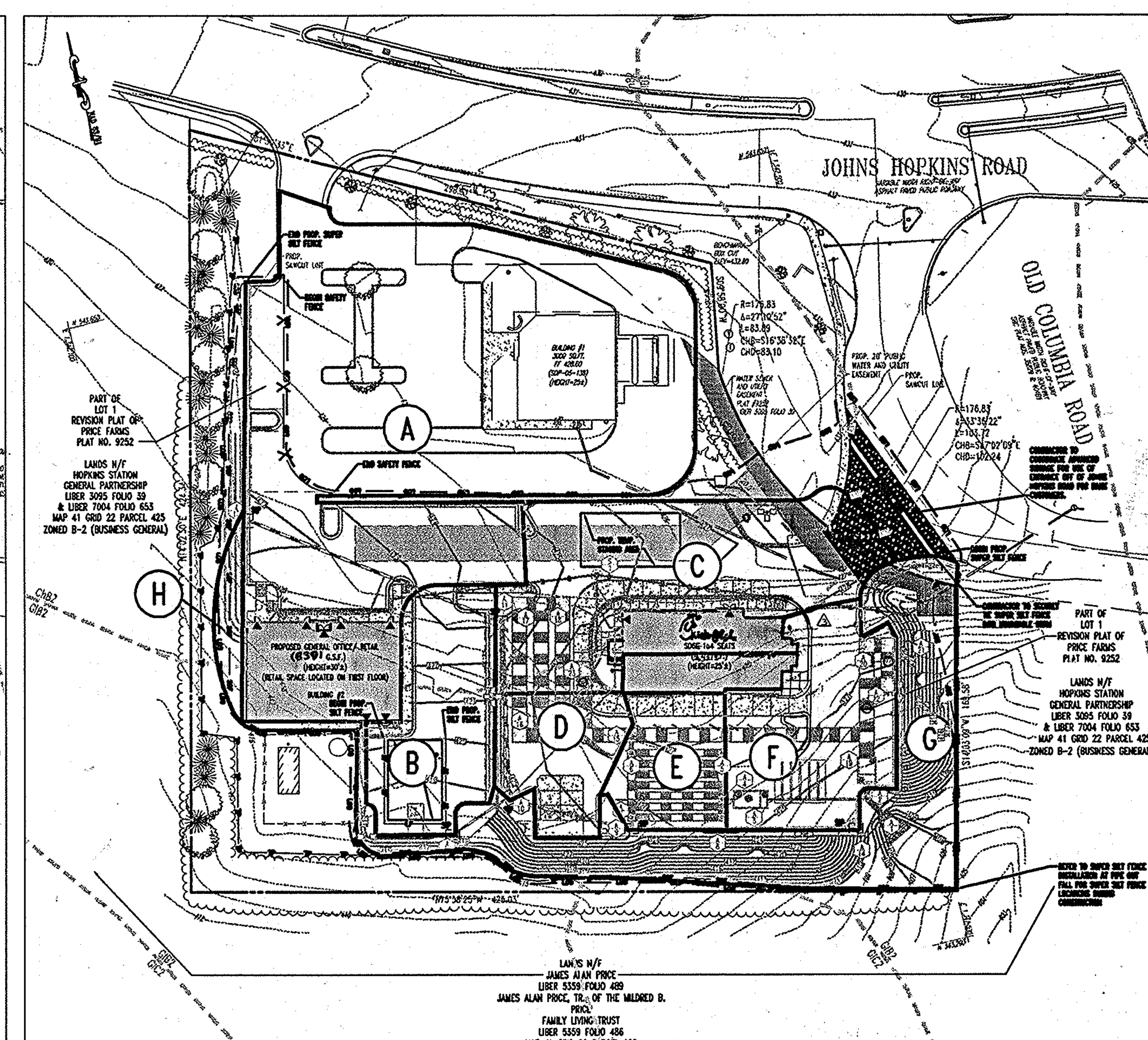


EXISTING E&S DRAINAGE AREAS

SCALE: 1"=60'

(A) IMPERVIOUS AREA = 39,325 S.F. OR .90 AC.
PERVIOUS AREA = 88,862 S.F. OF 2.04 AC.
TOTAL AREA = 128,187 S.F. OR 2.94 AC.
"C" VALUE = 33
TO 157 L.F. OF SSF

(B) IMPERVIOUS AREA = 625 S.F. OR 0.01 AC.
PERVIOUS AREA = 27,878 S.F. OF 0.64 AC.
TOTAL AREA = 28,503 S.F. OR 0.65 AC.
"C" VALUE = 16
TO 450 L.F. OF SSF



PROPOSED E&S DRAINAGE AREAS

SCALE: 1"=60'

(A) IMPERVIOUS AREA = 41,880 S.F. OR 0.96 AC.
PERVIOUS AREA = 26,720 S.F. OF 0.61 AC.
TOTAL AREA = 68,600 S.F. OR 1.57 AC.
"C" VALUE = 50
TO 195 L.F. OF SSF

(B) IMPERVIOUS AREA = 6,902 S.F. OR 0.18 AC.
PERVIOUS AREA = 608 S.F. OF 0.01 AC.
TOTAL AREA = 7,510 S.F. OF 0.19 AC.
"C" VALUE = 69
TO SIP

(C) IMPERVIOUS AREA = 14,696 S.F. OR 0.33 AC.
PERVIOUS AREA = 3,320 S.F. OF 0.07 AC.
TOTAL AREA = 18,016 S.F. OR 0.40 AC.
"C" VALUE = 62
TO SIP

(D) IMPERVIOUS AREA = 9,040 S.F. OR 0.21 AC.
PERVIOUS AREA = 480 S.F. OR 0.01 AC.
TOTAL AREA = 9,520 S.F. OR 0.22 AC.
"C" VALUE = 69
TO SIP

(E) IMPERVIOUS AREA = 3,120 S.F. OR 0.07 AC.
PERVIOUS AREA = 0 S.F. OR 0.00 AC.
TOTAL AREA = 3,120 S.F. OR 0.07 AC.
"C" VALUE = 72
TO SIP

(F) IMPERVIOUS AREA = 8,310 S.F. OR 0.19 AC.
PERVIOUS AREA = 810 S.F. OR 0.02 AC.
TOTAL AREA = 9,120 S.F. OR 0.21 AC.
"C" VALUE = 65
TO SIP

(G) IMPERVIOUS AREA = 0 S.F. OR 0.00 AC.
PERVIOUS AREA = 14,876 S.F. OR 0.34 AC.
TOTAL AREA = 14,876 S.F. OR 0.34 AC.
"C" VALUE = 20
TO 590 L.F. OF SSF

(H) IMPERVIOUS AREA = 0 S.F. OR 0.00 AC.
PERVIOUS AREA = 1,630 S.F. OR 0.04 AC.
TOTAL AREA = 1,330 S.F. OR 0.04 AC.
"C" VALUE = 20
TO 181 L.F. OF SSF

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

SUPER SILT FENCE

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

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

⚠2 FOR REVISION 2 ONLY

⚠1 FOR REVISION 1 ONLY

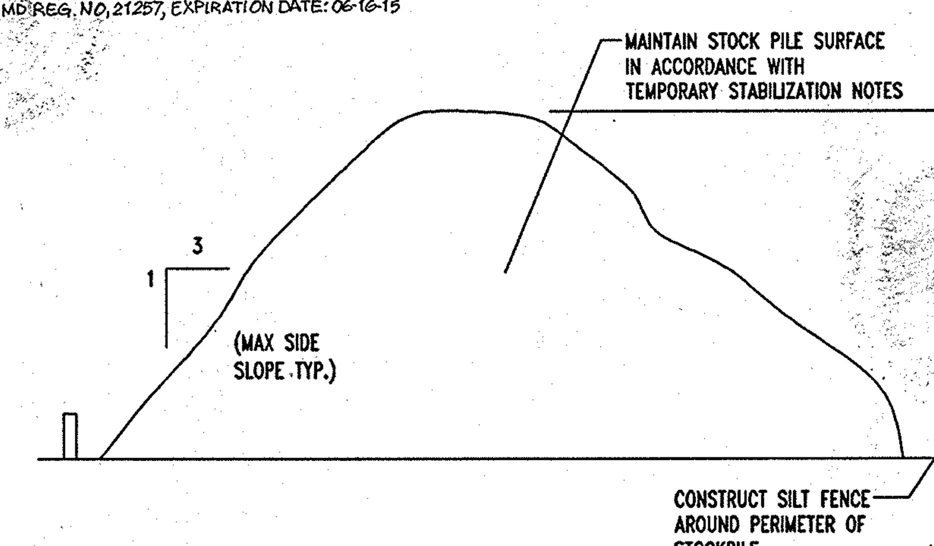
AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5-15-2013
DATE

⚠3 FOR REVISION 3 ONLY



TEMPORARY STOCKPILE DETAIL

NOT TO SCALE

FOR REVISION 4 ONLY

ENGINEER'S CERTIFICATE

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

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) 7/6/07 DATE
PRINT NAME Matthew T. Allen, PE

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."

By: Hugh F. Cole, Jr. 07/06/07
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE
PRINT NAME HUGH F. COLE, JR.

MISS UTILITY

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

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

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

AS-BUILT

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
USDA - NATURAL RESOURCES CONSERVATION SERVICE 7/17/07 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD SCD 7/17/07 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF-DEVELOPMENT ENGINEERING DIVISION 7/19/07 DATE
CHIEF-DIVISION OF LAND DEVELOPMENT 8/3/07 DATE
DIRECTOR 8/8/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
B Wilson for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
4	4/14/15	REVISE TITLE
3	4/7/08	SIZE & AREA REVISED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS POST LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

EROSION AND SEDIMENT CONTROL DETAILS

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

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	13 OF 28

SDP # 07-033

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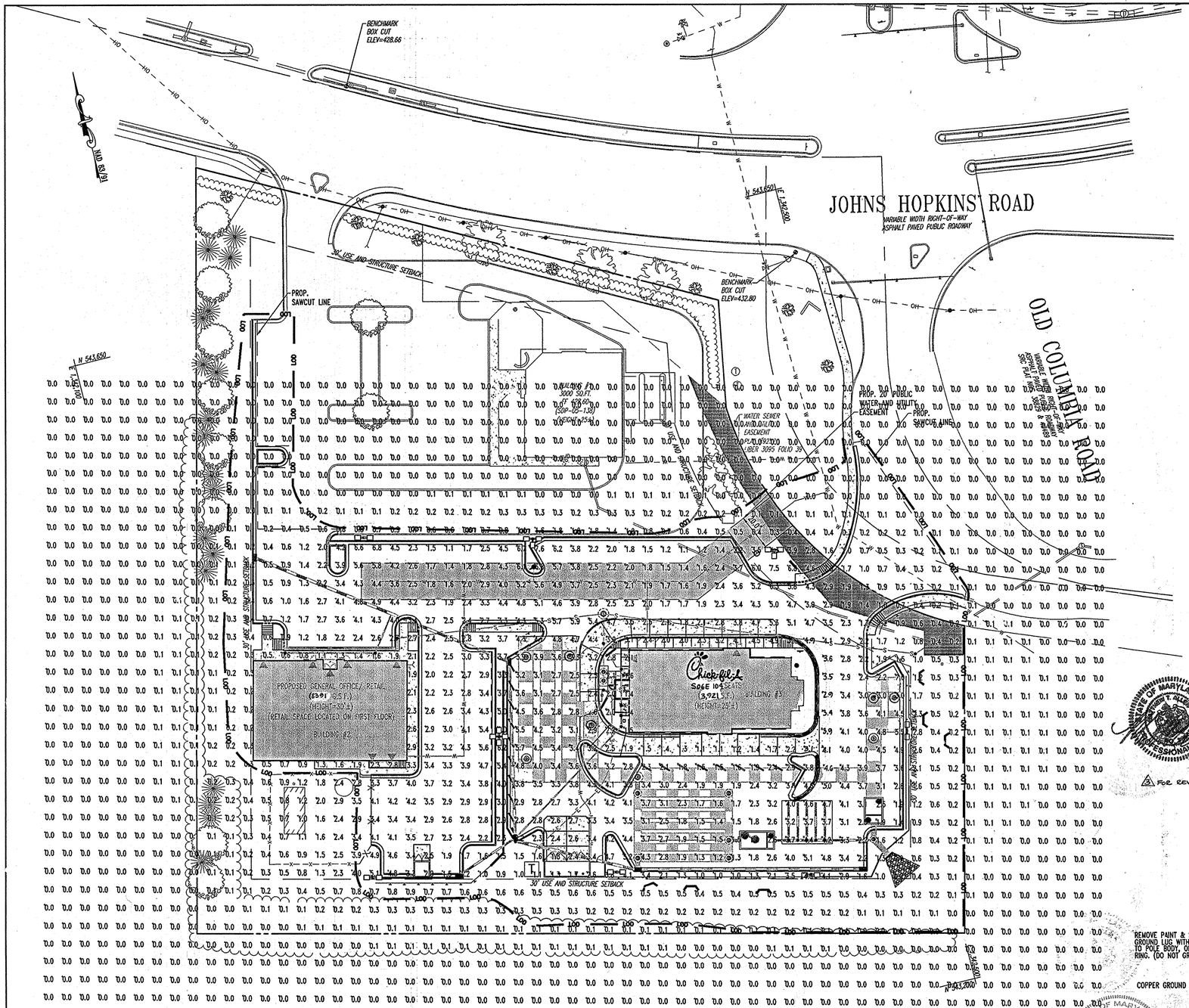


NOTES

1. Readings shown are based on a total LLF of .72 at grade.
2. Please refer to the "luminaire locations" table for mounting heights.
3. Product information can be obtained at www.Lithonia.com or through your local agency.

NOTE:

LIGHTING PLAN PREPARED BY:
ACUITY BRANDS LIGHTING GROUP
PHONE: (800) 279-8043
ATTN: JAMES K. EADS

LUMINAIRE LOCATIONS

No.	Label	Location X	Location Y	Location Z	MH	Orientation	Tilt
1	B	409.0	79.5	30.0	30.0	180.0	0.0
2	B	348.7	-3.4	30.0	30.0	-90.0	0.0
3	B	245.1	-0.9	30.0	30.0	-90.0	0.0
4	C	330.4	182.4	30.0	30.0	90.0	0.0
5	C	221.4	185.2	30.0	30.0	90.0	0.0
6	A	180.9	78.0	30.0	30.0	0.0	0.0
7	B	102.7	184.7	25.5	25.5	90.0	0.0
8	B	128.1	0.1	30.0	30.0	-90.0	0.0

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	B	5	KSF2 400M R4SC	AREA LIGHT WITH TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 400-WATT CLEAR ED-28 METAL HALIDE, HORIZONTAL POSITION.	93041301.IES	32000	0.72	924
	C	2	KSF2 400M R4SC	AREA LIGHT WITH TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 400-WATT CLEAR ED-28 METAL HALIDE, HORIZONTAL POSITION.	93041301.IES	32000	0.72	1386
	A	1	KSF2 400M R4SC	AREA LIGHT WITH TYPE 4, CUTOFF REFLECTOR, FLAT GLASS LENS.	ONE 400-WATT CLEAR ED-28 METAL HALIDE, HORIZONTAL POSITION.	93041301.IES	32000	0.72	1848

LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

INTENDED USE – Ideal for use in car lots, street lighting or parking areas.
CONSTRUCTION – Rugged, .087" thick, aluminum rectilinear housing.Continuously seam welded for weather-tight seal and longevity. Naturally anodized, extruded, aluminum door frame with mitered corners is retained with hinge and latch pins for positive alignment and security. Door frame is hinged on the left side for easy lamp access and maintenance. Door frame and door frame is accomplished with an integrally designed, extruded silicone gasket that seeps into door frame.
FINISH – Standard finish is dark bronze (D313) polyester powder. Other powder architectural colors available.
OPTICAL SYSTEM – Reflectors are anodized and segmented for superior uniformity and control, which allows the flexibility to aim distributions without compromising the overall lighting job. Reflectors attach with tool-less fasteners and are rotatable and interchangeable. Five cutoff distributions available: Type 5 (narrow), Type 4 (asymmetric), Type IV (forward throw, sharp cutoff), Type IV Radial, forward throw, and Type V (square symmetric, cut). Lens is .125" thick, impact resistant, tempered, glass with thermally-applied, silk screened power door stamp.
ELECTRICAL SYSTEM – Constant-wattage autotransformer is 100% copper-wound and factory-inerted. Super CWA Pulse Start Ballast required for 350W and 400W (much cooler operation, longer life, improved power factor, positive starting in extreme cold). Ballast is mounted on horizontally-oriented, one-piece socket with copper alloy, nickel plated screw shell and center contact. UL listed 1500W-400V.
INSTALLATION – Extruded, .4" aluminum arm for pole or wall mounting is shipped in fiber cartons. Optional mountings available.
LISTING – UL listed for wet locations. Listed and labeled to comply with Canadian Standards (see Options).

Catalog Number: ____ Notes: ____ Type: ____

Area Lighting
KSF2
METAL HALIDE
320W, 350W, 400W
15' to 25' Mounting

Specifications
EPA: 1.0 ft² (.09m²)
Backplate area
Length: 35 -5/16 (89.3)
Width: 19-1/2 (49.5)
Depth: 8-9/16 (21.3)
Weight: 52 lbs (23.6kg)
Arm: 4 (10.2)

All dimensions are inches (centimeters) unless otherwise specified.

Mounting Option	Orientation Correction*
Standard	0
EPA: 1.0 ft² (.09m²)	0
Wind Zone: 100 mph (161 km/h)	0
Yoke	0

Example: KSF2 400M R3 120 SP04 SF DDB LPI

ORDERING INFORMATION

Choose the additions catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories on separate catalog number.

Series: KSF2 250M, KSF2 320M, KSF2 350M, KSF2 400M

Distribution: R2 IES Type II roadway; R3 IES Type III asymmetric; R4SC IES Type IV forward throw; R4W IES Type IV wide, forward throw; R5S IES Type V square

Voltage: 120, 208, 240, 277, 347, 480, 575, 347/480, 277/480

Mounting: SP04 Square pole (4" arm) (standard); SP08 Square pole (8" arm); SP06 Round pole (6" arm); RP04 Round pole (4" arm); WW04 Wood pole or wall (4" arm); WW06 Wood pole or wall (6" arm); WS04 Wall bracket (4" arm); WS06 Wall bracket (6" arm); UA300 Allen ordering SAA1 DA12

Optional Mounting (shipped separately): DA12P Degree arm (pole); DA12WS Degree arm (wall); SMA Mast arm adapter; RTA90 Twin mounting bar

Options: Shipped Installed (in lieu of shipping separately): SF Single fuse (120, 277, 347V, only 175 watt); DF Double fuse (208, 240, 480V, only 175 watt); LPI Lamp included as standard; LXU Lens lamp; PCI NEMA twist-lock receptacle only (no photocell); CCR Cross reading screws (CSW) (exc. lamp not included/LPI only); EC Emergency circuit; CR Corrosion-resistant finish; CSA Listed and labeled to comply with Canadian Standards; SCWA Super CWA Pulse Start Ballast (shipped separately); PE1 NEMA twist-lock PE (120, 208, 240V); PE2 NEMA twist-lock PE (277V); PE3 NEMA twist-lock PE (347V); PE4 NEMA twist-lock PE (480V); PE7 NEMA twist-lock PE (575); DC Dimming step for PSR system; SSF2115 House side shield (RQ,RQ); SSF2115 Visoid guard

Architectural Colors (Powder Coat): Standard Colors: DDB Dark bronze (standard); DWH White; DBL Black; Classic Colors: DMB Medium bronze; DNA Natural aluminum; DBZ Solarizing; DGC Charcoal gray; DTG Tennis green; DSB Bright red; DSR Dual blue

NOTES:
1. Uses 1500 rated pulse lamp.
2. Consult factory for availability in Canada.
3. Optional mounting: Indoor (120, 208, 240, 277V) (120, 208, 277, 347V in Canada).
4. CPW, EPW, or VPWD must be used when lamp is shipped installed and on a 347 or 480V circuit.
5. Easy to ordered as necessary.
6. Additional architectural colors available. See Architectural Colors brochure, item no. 1.
7. Refer to technical data section in Outdoor binder for drilling template.

Accessories: Tenon Mounting Slipfitter (Order separately)

Outdoor	Number of Arrows 1	2	3	4
Nom. Pipe Size	Catalog Number	Catalog Number	Catalog Number	Catalog Number
2-3/8"	TSS-190	TSS-290	TSS-390	TSS-490
2-7/8"	TSS-195	TSS-295	TSS-395	TSS-495
4"	TSS-196	TSS-296	TSS-396	TSS-496

Sheet #: KSF2-M AL-330

LITHONIA LIGHTING
An Acuity Brands Company
Sheet #: KSF2-M ©2000 Acuity Lighting Group, Inc., Rev. 9/06

KSF2 400M Arm-Mounted Rectilinear Cutoff Lighting

Coefficient of Utilization
Initial Footcandles

KSF2 400M R2 — Test No. 1135021801 — CENTERLINE OF ROADWAY
KSF2 400M R3 — Test No. 1122 HO, 1134130301 — CENTERLINE OF ROADWAY
KSF2 400M R4SC — Test No. 1135041301 — CENTERLINE OF ROADWAY
KSF2 400M R4W — Test No. 1135 5509 — CENTERLINE OF ROADWAY
KSF2 400M R5S — Test No. 1135051801 — CENTERLINE OF ROADWAY

NOTES:
1. For electrical characteristics, consult individual data sh.
2. Tested to current IES and NEMA standards under controlled laboratory conditions. Various operating factors can cause differences between values in field and those published in photometric reports. Photometric values on the chart current available data and are subject to change.
3. Photometric data for other distributions can be accessed from the Lithonia Lighting website. (www.lithonia.com)

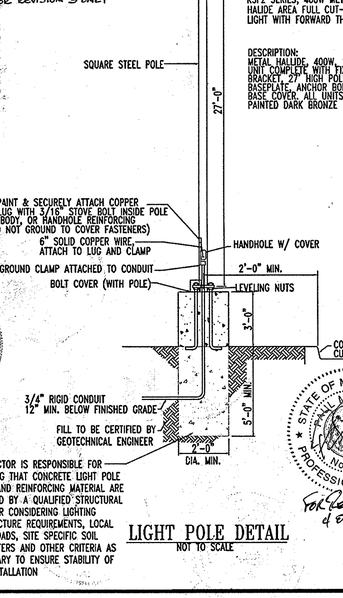
Mounting Height Correction Factor
(Multiply due to level by the correction factor)
18 ft.= 0.5
30 ft.= 1.28
40 ft.= 2.7

$\frac{\text{Catalog Mounting Height}}{\text{New Mounting Height}}^2$ = Correction factor

LITHONIA LIGHTING
An Acuity Brands Company
Sheet #: KSF2-M

AS-BUILT

Lithonia Lighting
Acuity Lighting Group, Inc.
One Lithonia Way
Conyers, GA 30012-3962
Phone: 770-922-9100 Fax: 770-918-1209
In Canada: 100 Ironwood Road, Paris Ontario, N3L 2R6
www.lithonia.com



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

LIGHT POLE DETAIL

NOT TO SCALE

STATE OF MARYLAND — MATTHEW T. ALLEN — No. 28567 — PROFESSIONAL ENGINEER

3 FOR REVISION 3 ONLY

STATE OF MARYLAND — MICHAEL DAVID ADCOCK — No. 21257 — PROFESSIONAL LAND SURVEYOR

STATE OF MARYLAND — PAUL H. SILL — No. 32025 — PROFESSIONAL ENGINEER — FOR REVISION 4 ONLY

STATE OF MARYLAND — PAUL H. SILL — No. 32025 — PROFESSIONAL ENGINEER

2 FOR REVISION 2 ONLY

1 FOR REVISION 1 ONLY

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 05-16-15

5/15/2013
DATE

MISS UTILITY

STOP WITH C.A.R.E. — CALL ANY TIME WITHIN 48 HOURS — WEST VIRGINIA

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

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

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

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

GENERAL NOTE:
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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 7/23/07
DIRECTOR	DATE 8/7/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER	DATE 8/24/07
HOWARD COUNTY HEALTH DEPARTMENT	

NO.:	DATE	REVISION DESCRIPTION
4	01/14/15	REVISE TITLE
3	4/07/08	SIZE & MEA REVISED FOR CFA BUILDING
2	3/13/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	REVISE BLDG. AREA & ADDED SHOP LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8855 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

LIGHTING PLAN

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLEN EAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7987 | BOHLER@eng.com

STATE OF MARYLAND — MATTHEW T. ALLEN — No. 28567 — PROFESSIONAL ENGINEER

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	14 OF 28

SDP # 07-033

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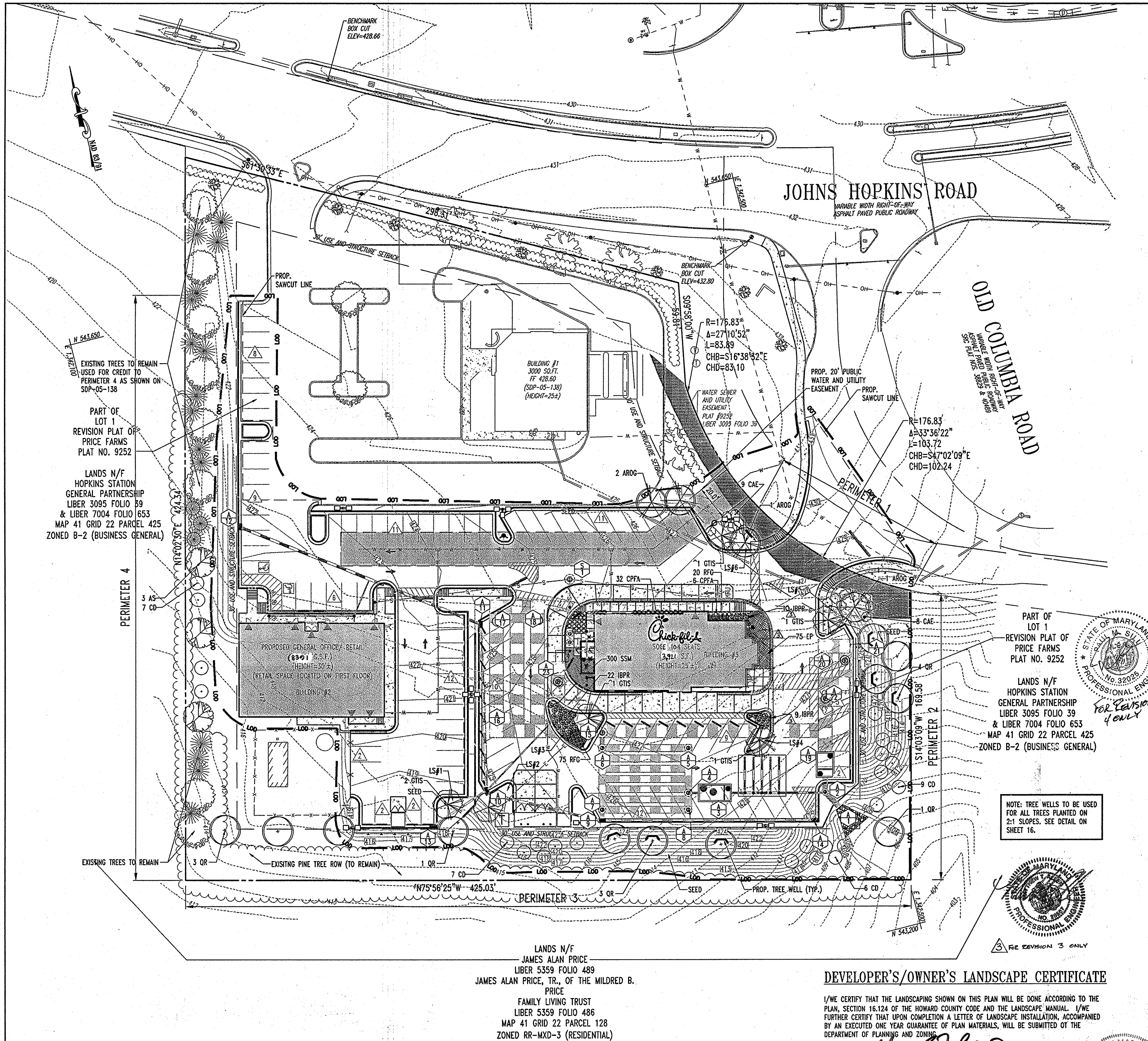


TOTAL PLANTING SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
DECIDUOUS TREE(S)					
AROG	4	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2-3" CAL.	B+B
AS	3	ACER SACCARUM	SUGAR MAPLE	2 1/2-3" CAL.	B+B
QR	12	QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.	B+B
GTIS	6	GLEDITSIA TRIACANTHOS VAR. INTERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2 1/2-3" CAL.	B+B
BN	1	BETULA NIGRA	MULTI STEM RIVER BIRCH	12-14'	B+B
	26				
EVERGREEN TREE(S)					
CD	29	CEDRUS DEODARA	DEODOR CEDAR	6' - 8' HT.	B+B
DECIDUOUS SHRUB(S)					
CAE	17	CORNUS ALBA 'ELEGANTISSIMA'	VARIEGATED RED TWIG DOGWOOD	2-3'	B+B
EVERGREEN SHRUB(S)					
3 CPFA	38	CHAMAECYPARIS PISIFERA 'FILIFERA AUREA'	GOLD THREAD CYPRESS	15-18" SPRD.	#3 CAN
IBPR	43	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS HOLLY	24-30"	#5 CAN
	81				
PERENNIAL(S)					
EP	75	ECHINACEA PURPUREA	PURPLE CONE FLOWER	1 QT.	CONTAINER
RFG	95	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM	2 GAL.	CONTAINER
SSM	300	SALVIA SUPERBA 'MAYNIGHT'	MAYNIGHT MEADOW SAGE	2 GAL.	CONTAINER
	470				

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

SCHEDULE A : PERIMETER LANDSCAPED EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES				
LANDSCAPE TYPE	E (PERIMETER 1)	C (PERIMETER 2)	C (PERIMETER 3)	C (PERIMETER 4)	TOTAL
LINEAR FEET OF PERIMETER	68 LF	169.54 LF	425.03 LF	345 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	YES 170 LF	YES 185 LF	
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	NO	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	2 SHADE TREES 0 EVERGREEN TREES 17 SHRUBS	5 SHADE TREES 9 EVERGREEN TREES 0 SHRUBS	7 SHADE TREES 13 EVERGREEN TREES 0 SHRUBS	4 SHADE TREES 8 EVERGREEN TREES 0 SHRUBS	18 SHADE TREES 39 EVERGREEN TREES 17 SHRUBS
CREDIT FOR EXISTING VEGETATION SHADE TREES EVERGREEN TREES	N/A	N/A	170 LF OF EXISITING PINE TREE ROW	6 SHADE TREES* 11 EVERGREEN TREES* 0 SHRUBS	6 SHADE TREES 11 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS	2 SHADE TREES 0 EVERGREEN TREES 17 SHRUBS	5 SHADE TREE 9 EVERGREEN TREES 0 SHRUBS	7 SHADE TREES 13 EVERGREEN TREES 0 SHRUBS	3 SHADE TREES 7 EVERGREEN TREES 0 SHRUBS	23 SHADE TREES 40 EVERGREEN TREES 17 SHRUBS

*AS APPROVED ON SDP-05-138

SCHEDULE B PARKING LOT INTERNAL PLANTING

NUMBER OF PARKING SPACES:	119
NUMBER OF LANDSCAPE ISLANDS AND TREES REQUIRED (1 PER 20 PARKING SPACES):	6
NUMBER OF LANDSCAPE ISLANDS AND TREES PROVIDED:	6
SHADE TREES:	6 TREES
"^" INDICATES PLANT MATERIAL UTILIZED TO FULFILL REQUIREMENT	
"LS#" INDICATES REQUIRED LANDSCAPE ISLANDS	

AS-BUILT

SOIL TYPES

ChB2 CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED

GlC2 GLENELG LOAM, 8-15% SLOPES, MODERATELY ERODED

1 FOR REVISION 1 ONLY

12/7/07

PARKING LOT PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
6		GLEDITSIA TRIACANTHOS VAR. INTERMIS 'SHADEMASTER'	SHADEMASTER HONEYLOCUST	2 1/2-3" CAL.

STREET TREE PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
4		ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2-3" CAL.
17		CORNUS ALBA 'ELEGANTISSIMA'	VARIEGATED RED TWIG DOGWOOD	2-3'

PERIMETER PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
16		QUERCUS RUBRA	RED OAK	2 1/2-3" CAL.
29		CEDRUS DEODARA	DEODAR CEDAR	6' - 8' HT.
3		ACER SACCHARUM	SUGAR MAPLE	2 1/2-3" CAL.

LANDSCAPE NOTES

"AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION'S OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULTING IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS".

"THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BEAMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED."

"THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL WITH 29 SHADE TREES, 0 ORNAMENTAL TREES, 29 EVERGREEN TREES AND 110 SHRUBS PROVIDE WITH LANDSCAPE SURETY IN THE AMOUNT OF $16,350 WITH THE DPW, DEVELOPER'S AGREEMENT".

PLEASE BE ADVISED THE THE LANDSCAPING CANNOT BE LOCATED WITHIN ANY PUBLIC EASEMENTS FOR WATER, SEWER OR STORM DRAINS IN ACCORDANCE WITH SECTION 16.124 (B) (1) (III) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

2 FOR REVISION 2 ONLY

DEVELOPER'S/OWNER'S LANDSCAPE CERTIFICATE

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

By: Hugh F. Cole, Jr.
DEVELOPER'S/OWNER'S NAME

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15
5-15-2013
DATE

GENERAL NOTE:

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

NOTE

ALL 2:1 SLOPES TO BE SODDED AND STABILIZED.

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

MISS UTILITY

DIG WITH C.A.R.E. CALL MISS UTILITY KEEP MARYLAND SAFE

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

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

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 8/3/07
DIRECTOR — DATE 8/8/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 8/29/07
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
4	4/14/15	REVISE TITLE
3	4/7/08	SIZE & AREA REVISED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS POST LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

LANDSCAPE PLAN

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

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

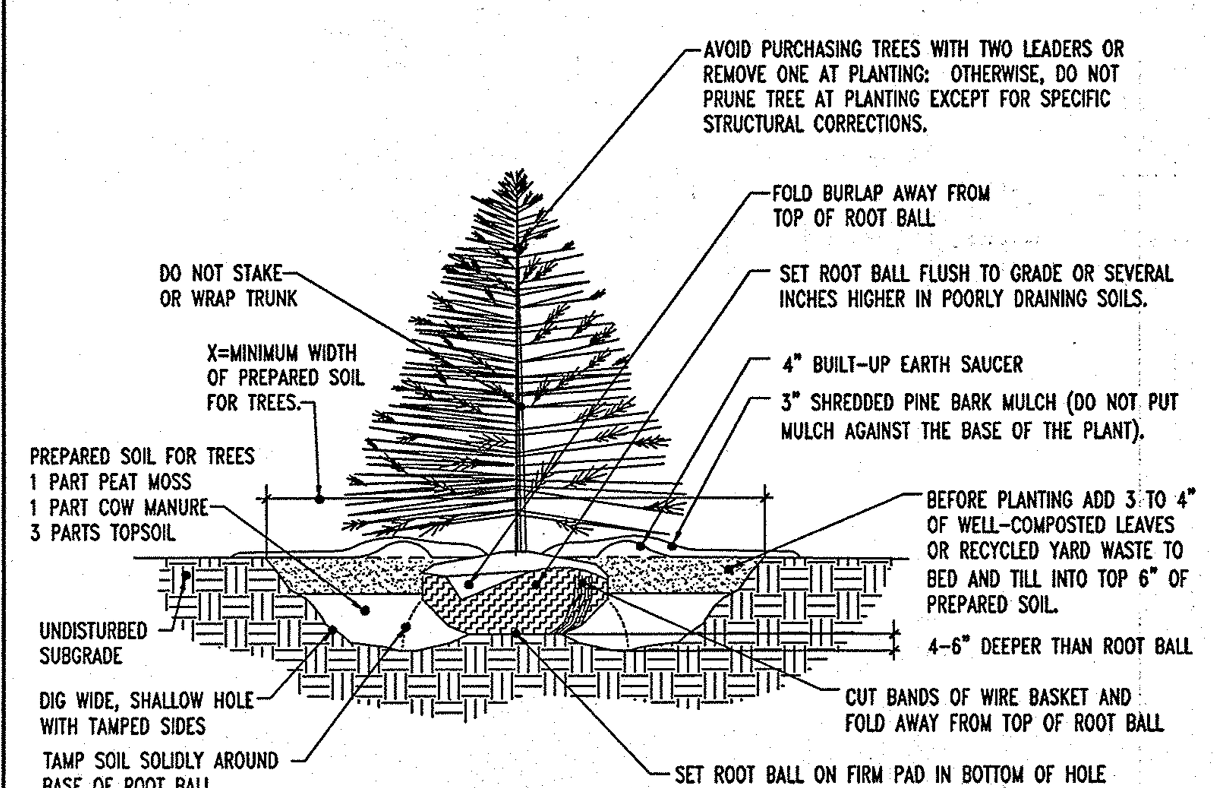
REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	15 OF 28

SDP # 07-033

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 8:59:28 AM, rgodfrey

NOTES FOR DECIDUOUS AND EVERGREEN TREE PLANTINGS:

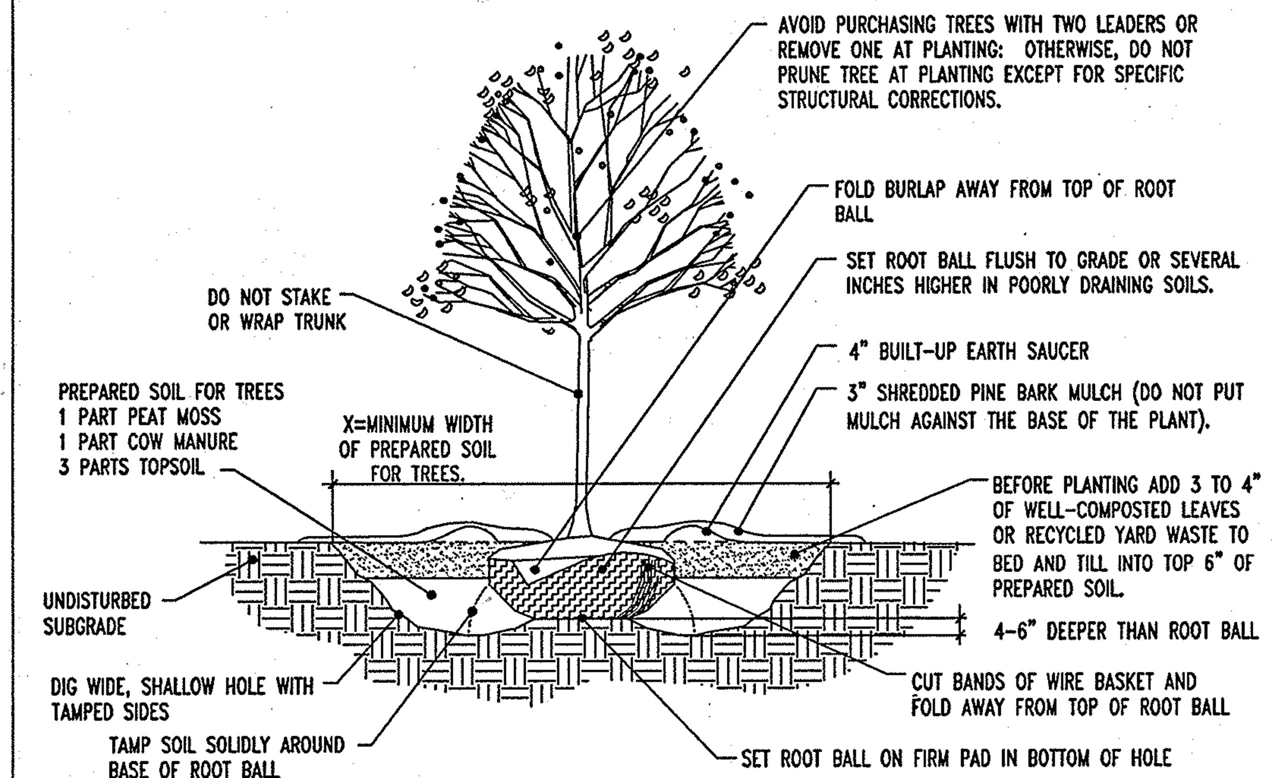
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM TOP OF ROOT BALL.
3. PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
4. THOUROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING 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.

EVERGREEN TREE PLANTING DETAIL

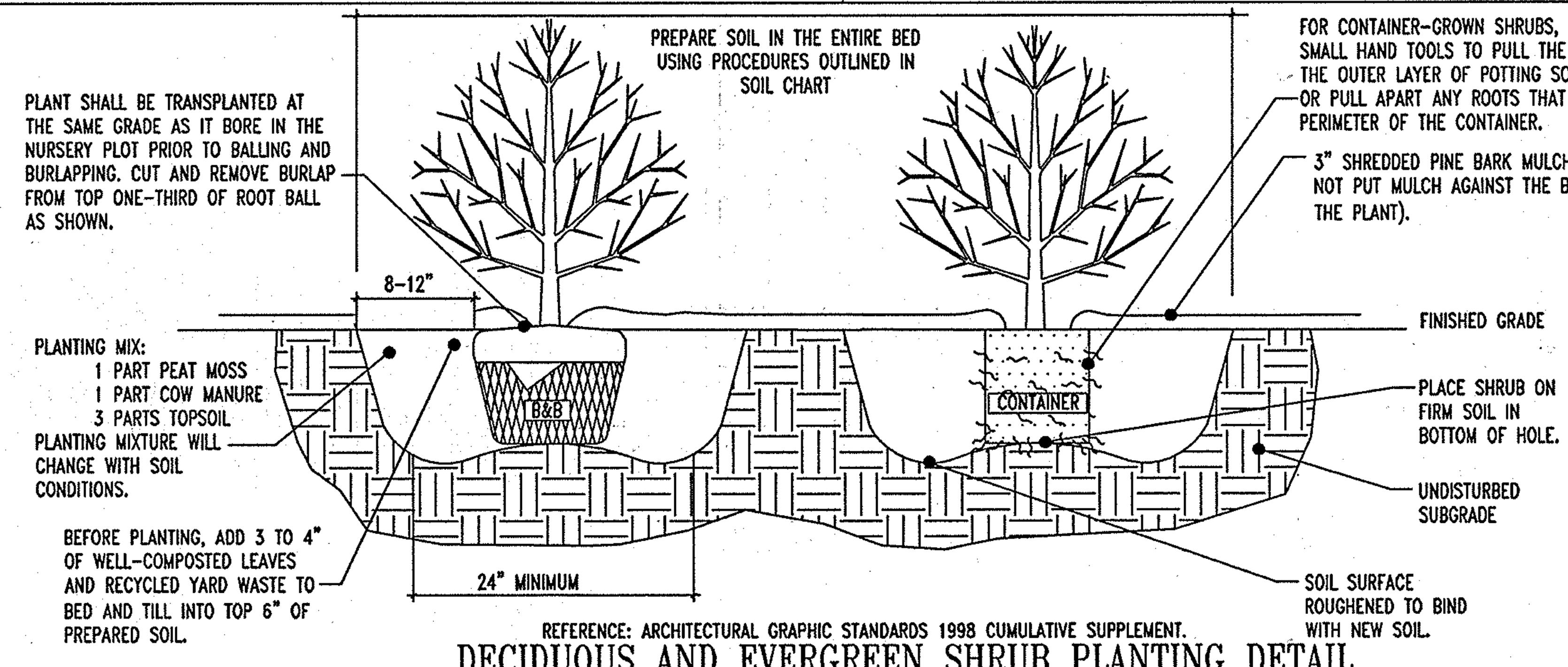
NOT TO SCALE



REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



REFERENCE: ARCHITECTURAL GRAPHIC STANDARDS 1998 CUMULATIVE SUPPLEMENT.

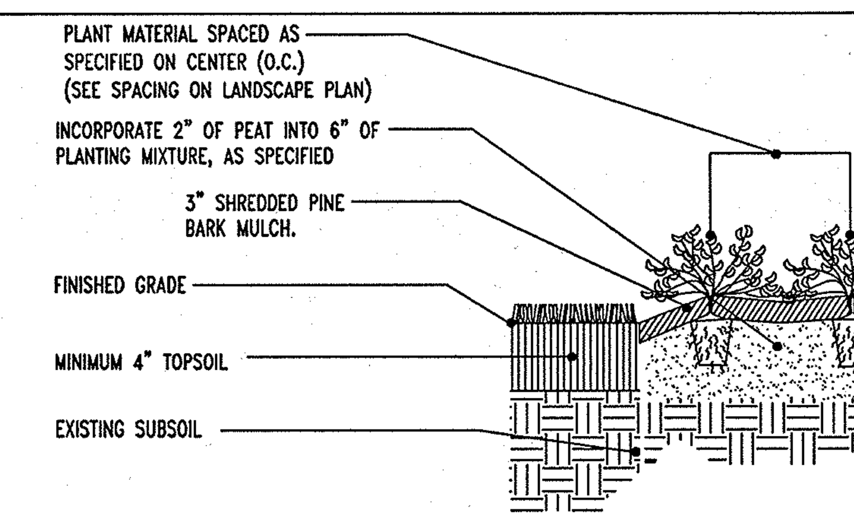
DECIDUOUS AND EVERGREEN SHRUB PLANTING DETAIL

NOT TO SCALE

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.



PERENNIAL/GROUND COVER PLANTING DETAIL

NOT TO SCALE

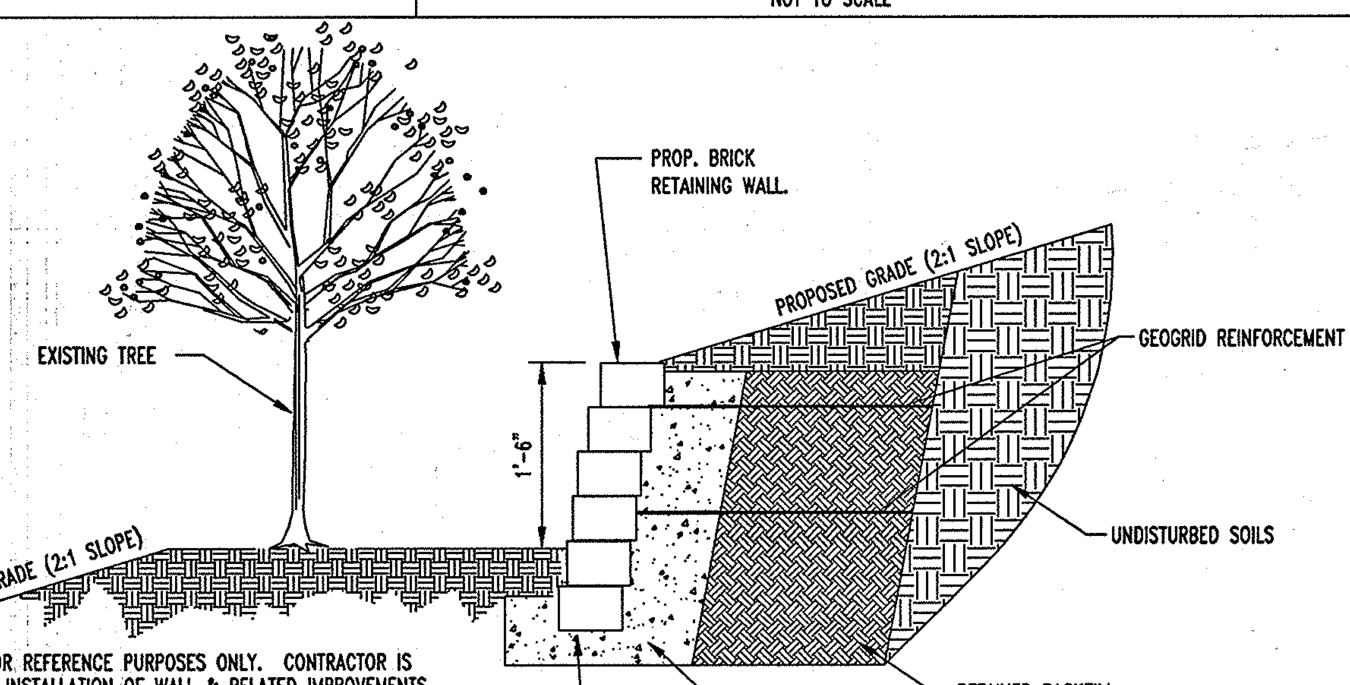
SEEDING SPECIFICATIONS

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
3. SEEDING RATES:

PERENNIAL RYEGRASS	1/2 LB/1,000 SQ FT
KENTUCKY BLUEGRASS	1 LB/1,000 SQ FT
RED FESCUE	1 1/2 LBS/1,000 SQ FT
SPREADING FESCUE	1 1/2 LBS/1,000 SQ FT
FERTILIZER (20:10:10)	14 LBS/1,000 SQ FT
MULCH	90 LBS/1,000 SQ FT

4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

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



1. GENERAL NOTES: THIS DETAIL IS FOR REFERENCE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF WALL & RELATED IMPROVEMENTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MANUFACTURER OF WALL MATERIALS IS RESPONSIBLE FOR FINAL DESIGN OF WALL DETAILS AND SPECIFICATIONS PRIOR TO CONSTRUCTION.
2. FINAL COLOR AND MATERIALS TO BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION.

TREE WELL DETAIL

NOT TO SCALE

LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK:
THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

2. MATERIALS
A. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.

B. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.

C. LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM SIX INCH (6") THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES.
I. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
II. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.

D. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN.

E. FERTILIZER
I. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
II. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.

F. PLANT MATERIAL
I. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
II. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
III. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
IV. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1¼", WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
V. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH: WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
VI. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
VII. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
VIII. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

3. GENERAL WORK PROCEDURES
A. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.

B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.

4. SITE PREPARATIONS
A. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.

B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE TRUNK. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.

C. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.

5. TREE PROTECTION
A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.

B. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY 'VISI-FENCE', OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.

C. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.

D. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.

6. SOIL MODIFICATIONS
A. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.

B. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.

C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
I. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
II. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
III. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

7. FINISHED GRADING
A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.

B. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"±).

C. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.

D. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.

8. TOPSOILING
A. CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.

B. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.

C. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.

D. ALL PLANTING AND LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA):
I. 20 POUNDS 'GROW POWER' OR APPROVED EQUAL
II. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP

E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

9. PLANTING
A. INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.

B. 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.

C. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.

D. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.

E. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.

F. 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 APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
I. PLANTS: MARCH 15 TO DECEMBER 15
II. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1

PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.

G. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:

ACER RUBRUM	PLATANUS X ACERIFOLIA
BETULA VARIETIES	POPULOUS VARIETIES
CARPINUS VARIETIES	PRUNUS VARIETIES
CRATAEGUS VARIETIES	PYRUS VARIETIES
KOELREUTERIA	QUERCUS VARIETIES
LIQUIDAMBER STYRACIFLUA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA VARIETIES

H. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
I. 1 PART PEAT MOSS
II. 1 PART COMPOSTED COW MANURE BY VOLUME
III. 3 PARTS TOPSOIL BY VOLUME
IV. 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
A) 2 TABLETS PER 1 GALLON PLANT
B) 3 TABLETS PER 5 GALLON PLANT
C) 4 TABLETS PER 15 GALLON PLANT
D) LARGER PLANTS: 2 TABLETS PER ½" CALIPER OF TRUNK

I. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.

J. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.

K. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.

L. GROUND COVER AREAS SHALL RECEIVE A ¼" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.

M. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.

N. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.

O. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.

10. TRANSPLANTING (WHEN REQUIRED)
A. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.

B. IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.

C. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.

D. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.

E. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.

F. IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.

11. WATERING
A. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.

B. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.

C. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.

12. GUARANTEE
A. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

B. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.

C. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.

D. LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

13. CLEANUP
A. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.

B. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

14. MAINTENANCE (ALTERNATIVE BID):
A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

5/15/2013

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR DATE
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

STATE OF MARYLAND · MICHAEL DAVID ADCOCK · PROFESSIONAL LAND SURVEYOR · No. 21257

MISS UTILITY

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

STATE OF MARYLAND · PAUL M. SILL · No. 32025 · PROFESSIONAL ENGINEER

FOR REVISION ONLY

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 48 HOURS PRIOR TO ANY CONSTRUCTION.

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION 7/19/07 DATE

CHIEF-DIVISION & LAND DEVELOPMENT 8/3/07 DATE

DIRECTOR 8/8/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
1	4/14/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

LANDSCAPE NOTES AND DETAILS

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

STATE OF MARYLAND · MATTHEW T. ALLEN · PROFESSIONAL ENGINEER

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	1"=30'
DRAWING NO.	16 OF 28

SDP # 07-033

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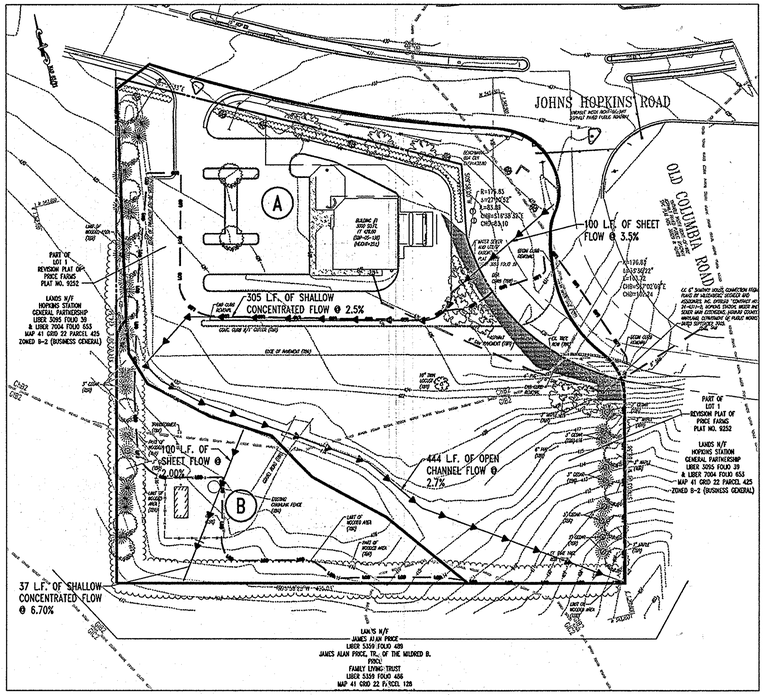
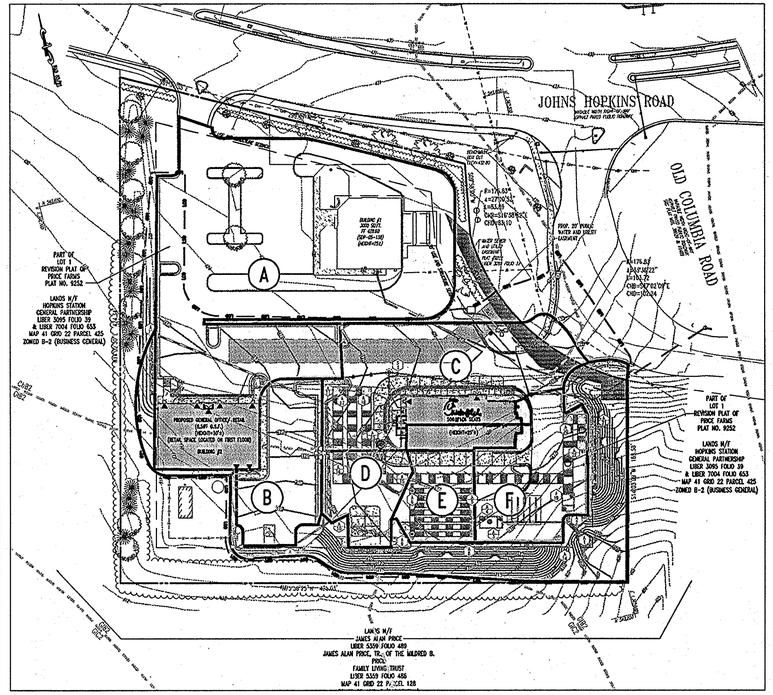


EXISTING STORMDRAIN DRAINAGE AREA

SCALE: 1"=60'



PROPOSED STORMDRAIN DRAINAGE AREA

SCALE: 1"=60'

(A) IMPERVIOUS AREA = 39,325 S.F. OR .90 AC.
PERVIOUS AREA = 88,862 S.F. OF 2.04 AC.
TOTAL AREA = 128,187 S.F. OR 2.94 AC.
"C" VALUE = 33
TO 157 L.F. OF SSF

(B) IMPERVIOUS AREA = 625 S.F. OR 0.01 AC.
PERVIOUS AREA = 27,878 S.F. OF 0.64 AC.
TOTAL AREA = 28,503 S.F. OR 0.65 AC.
"C" VALUE = 16
TO 450 L.F. OF SSF

(A) IMPERVIOUS AREA = 41,880 S.F. OR 0.96 AC.
PERVIOUS AREA = 26,720 S.F. OF 0.61 AC.
TOTAL AREA = 68,600 S.F. OR 1.57 AC.
"C" VALUE = 50

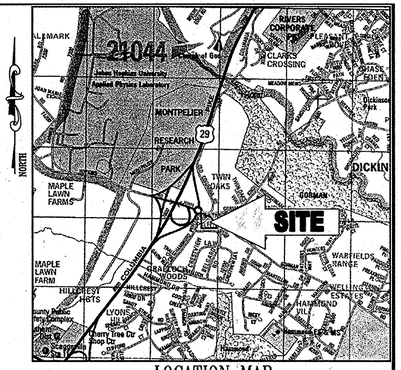
(B) IMPERVIOUS AREA = 6,902 S.F. OR 0.18 AC.
PERVIOUS AREA = 608 S.F. OF 0.01 AC.
TOTAL AREA = 7,510 S.F. OF 0.19 AC.
"C" VALUE = 69

(C) IMPERVIOUS AREA = 14,696 S.F. OR 0.33 AC.
PERVIOUS AREA = 3,320 S.F. OF 0.07 AC.
TOTAL AREA = 18,016 S.F. OR 0.40 AC.
"C" VALUE = 62

(D) IMPERVIOUS AREA = 9,040 S.F. OR 0.21 AC.
PERVIOUS AREA = 480 S.F. OR 0.01 AC.
TOTAL AREA = 9,520 S.F. OR 0.22 AC.
"C" VALUE = 69

(E) IMPERVIOUS AREA = 3,120 S.F. OR 0.07 AC.
PERVIOUS AREA = 0 S.F. OR 0.00 AC.
TOTAL AREA = 3,120 S.F. OR 0.07 AC.
"C" VALUE = 72

(F) IMPERVIOUS AREA = 8,310 S.F. OR 0.19 AC.
PERVIOUS AREA = 810 S.F. OR 0.02 AC.
TOTAL AREA = 9,120 S.F. OR 0.21 AC.
"C" VALUE = 66



LOCATION MAP

COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20602153-5
SCALE: 1"=2000'

AS-BUILT

3 FOR REVISION 3 ONLY

2 FOR REVISION 2 ONLY

1 FOR REVISION 1 ONLY

FOR REVISION 4 ONLY

SOIL TYPES

ChB2	CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED
GlC2	GLENELG LOAM, 8-15% SLOPES, MODERATELY ERODED

LEGEND

- SOILS DELINEATION
- EkA SOILS TYPE
- DRAINAGE DIVIDES
- TC PATH
- (B) DRAINAGE AREA LABEL

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21287, EXPIRATION DATE: 06-16-13

5/15/2013
DATE

ENGINEER'S CERTIFICATE

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

7/6/07
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

PRINT NAME

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."

By: 07/06/07
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

HUGH F. COLE JR.
PRINT NAME

MISS UTILITY

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

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

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

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

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

USDA - NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SCD DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

7/9/07
CHIEF-DEVELOPMENT ENGINEERING DIVISION DATE

7/3/07
CHIEF-DIVISION & LAND DEVELOPMENT DATE

7/9/07
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

8/2/07
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
4	4/14/13	REVISE TITLE
3	4/07/08	SITE & AREA REVISED FOR CFA BUILDING
2	2/2/08	IRRIGATION LINE + CFA SERVICE YARD REVISION
1	12/26/07	RETAIL BLDG. AREA & ASSOC PARK LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

STORMDRAIN DRAINAGE AREA MAPS

BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900, (410) 821-7901 (FAX) www.bohlerengineering.com•

7/6/07
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	17 OF 28

SDP # 07-033

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StormFilter™ Specifications
PRECAST FILTER UNIT

PART 1 GENERAL

1.1 Description

The Contractor shall furnish and install the StormFilter stormwater treatment system, complete and operable as shown and as specified herein, in accordance with the requirements of the plans and contract documents.

StormFilter stormwater treatment system shall consist of an underground Pre-Cast or Cast-In-Place structure that houses passive siphon-actuated, radial-flow media-filled filter cartridges.

The radial-flow filter cartridges shall be rechargeable, and shall incorporate a self actuated surface cleaning mechanism to increase the effective life of the filter media and to reduce the accumulation of material on the cartridge interface.

Each radial-flow filter cartridge shall operate at a predetermined flow rate through the use of an integrated flow control orifice located within each filter cartridge.

1.2. Manufacturer

The StormFilter stormwater treatment system shall be of a type that has been installed and in use successfully for a minimum of five (5) or more years. StormFilter stormwater treatment system shall be supplied by Stormwater Management, Inc. (SMI), 12021-B NE Airport Way, Portland, OR 97220 (800/548-4667), without exception.

1.3 Related Sections

A. Section [ ]:

1.4 Submittals

A. Submit shop drawings for StormFilter stormwater treatment system vault, filter media cartridges and accessory equipment including principal dimensions, filter placement, location of piping and unit foundation.

B. Submit StormFilter stormwater treatment system Operation and Maintenance Manual upon request.

PART 2 PRODUCTS

2.1 Internal Components

All internal components including ABS and PVC manifold piping, filter cartridge(s), filter media (as specified on the plans in the StormFilter data block or by the Engineer), flow spreaders, and energy dissipaters shall be provided by Stormwater Management, Inc.

A. PVC manifold pipe and fittings shall meet ASTM D1785. ABS manifold pipe and fittings shall meet ASTM F-628.

B. Filter cartridge bottom pan, inner ring, and hood shall be constructed from spun linear low-density polyethylene (LLDPE). Filter cartridge screen shall consist of galvanized 1" x ½" welded wire fabric (16 gauge minimum) with a bonded PVC coating. Internal parts shall consist of PVC or ABS pipe and fittings. Siphon-priming float shall be constructed from linear low-density polyethylene. Outer filter fabric shall be 10 x 8.5 clear fiberglass mesh. Inner filter fabric shall be 10 x 8.5 clear fiberglass mesh over Enkamat 7210 or woven polyethylene with a US Standard Sieve #20 opening size. All miscellaneous nuts, bolts, screws, and other fasteners shall be stainless steel.

An orifice plate shall be supplied with each cartridge to restrict flow rate to a maximum of between 5-15 GPM per specific design requirements.

C. Filter media shall be provided by SMI or approved alternate source. Filter media shall consist of one or more of the following, as specified in the StormFilter data block, or by the Engineer:

~~1. Perlite Media: Perlite media shall be made of natural siliceous volcanic rock free of any debris or foreign matter. The perlite media shall have a bulk density ranging from 6.5 to 8.5 lb/ft³ and particle sizes ranging from 0.06 to 0.50 inches.~~

2. CSF Leaf Media: CSF leaf media shall be made exclusively of fallen deciduous leaves with less than 5% by dry weight of woody or green yard debris materials. Filter media shall be granular and shall contain less than 0.5% foreign material such as glass or plastic contaminants. Media shall be dry at the time of installation.

The CSF leaf media shall have a bulk density ranging from 40 to 50 lb/ft³ and particle sizes ranging from 0.05 to 0.625 inches for at least 90% of particles. Maximum level of dust for filter media shall be defined as: media passing through a US Standard Sieve #4 shall have no more than 10% (by mass of dry media) passing a US Standard Sieve #45.

~~3. XFCSF Leaf Media: CSF leaf media shall be made exclusively of fallen deciduous leaves with less than 5% by dry weight of woody or green yard debris materials. Filter media shall be granular and shall contain less than 0.5% foreign material such as glass or plastic contaminants. Media shall be dry at the time of installation.~~

~~The XFCSF leaf media shall have a bulk density ranging from 45 to 65 lb/ft³. Particle size range is dependent upon manufacturing conditions at the time of production. Media produced for [this project] shall have a particle size between 0.05 and 0.25 inches for 90% of particles. Maximum level of dust for filter media shall be defined as: media passing through a US Standard Sieve #4 shall have no more than 10% (by mass of dry media) passing a US Standard Sieve #45.~~

~~4. Zeolite Media: Zeolite media shall be made of naturally occurring clinoptilolite, which has a geological structure of potassium-calcium-sodium aluminosilicate.~~

~~The zeolite media shall have a bulk density ranging from 44 to 50 lb/ft³, particle sizes ranging from 0.125 to 0.25 inches, and a cation exchange capacity ranging from 1.0 to 2.2 meq/g.~~

~~5. Iron-Infused Media: Iron-infused media shall be made from phenolic resin mixed with iron particles and polymerized to form open cellular foam. The stock materials must be free of debris with the iron particles being non-reactive and non-greased.~~

~~The iron-infused media shall have a bulk density ranging from 20 to 30 lb/ft³ and particle sizes ranging from 0.0 to 0.5 inches.~~

~~6. Granular Activated Carbon: Granular activated carbon (GAC) shall be made of lignite coal that has been steam activated. The GAC media shall have a bulk density ranging from 24 to 26 lb/ft³ and particle sizes ranging from 0.07 to 0.19 inches.~~

~~7. Zeolite-Perlite-Granular Activated Carbon (ZPG): ZPG is a mixed media that shall be composed of a 1.4 ft³ outer layer of 100% Perlite (see above) and an inner layer consisting of a 1 ft³ mixture of 90% Zeolite (see above) and 10% Granular Activated Carbon (see above).~~

~~8. CSF Leaf – Granular Activated Carbon: CSF/GAC is a mixed media that shall be composed of a 1.4 ft³ outer layer of 100% CSF Leaf media (see above) and an inner layer consisting of 1 ft³ of 100% Granular Activated Carbon (see above).~~

D. Flow spreader shall be constructed of spun LLDPE.

E. Energy dissipater shall be constructed of polyolefins.

2.2 Precast Concrete Vault Components

A. Precast concrete vault shall be provided according to ASTM C478.

B. Vault joint sealant shall be Conseal CS-101 or Engineer approved.

C. Frames and covers shall be gray cast iron and shall meet AASHTO H-20 loading requirements, and shall be provided according to ASTM A48.

D. Steps shall be constructed of copolymer polypropylene conforming to ASTM D-4101. Steps shall be driven into preformed or drilled holes once concrete is cured. Steps shall meet the requirements of ASTM C-478 and AASHTO M-199. The ½" Grade 60 deformed reinforcing bar shall meet ASTM A-615.

E. Ladders shall be constructed of aluminum and steel reinforced copolymer polypropylene conforming to ASTM D-4101. Ladder shall bolt in place and may be equipped with a pull-up ladder extender that shall extend a minimum of 24 inches above the top rung of ladder. Ladder shall meet all ASTM C-497 load requirements.

F. Doors shall have hot-dipped galvanized frame and covers. Covers shall have diamond plate finish. Each door to be equipped with a recessed lift handle and a locking latch with 3/8" pentahead hold-down bolts. Pentahead wrench to be provided for each set of doors, upon request. Doors shall meet H-20 loading requirements for incidental traffic minimum.

2.3 Contractor Provided Components

All contractor-provided components shall meet the requirements of this section, the plans specifications and contract documents. In the case of conflict, the more stringent specification shall apply.

A. Crushed rock base material shall be six-inch minimum layer of ¾-inch minus rock. Compact undisturbed sub-grade materials to 95% of maximum density at +/-2% of optimum moisture content. Unsuitable material below sub-grade shall be replaced to engineer's approval.

B. Concrete shall have an unconfined compressive strength at 28 days of at least 3000 psi, with ¾-inch round rock, a 4-inch slump maximum, and be placed within 90 minutes of initial mixing.

C. Silicone Sealant shall be pure RTV silicone conforming to Federal Specification Number TT S001543A or TT S00230C or Engineer approved.

D. Grout shall be non-shrink grout meeting the requirements of Corps of Engineers CRD-C588. Specimens molded, cured and tested in accordance with ASTM C-109 shall have minimum compressive strength of 6,200 psi. Grout shall not exhibit visible bleeding.

E. Backfill material shall be ¾-inch minus crushed rock, or approved equal.

PART 3 EXECUTION

3.1 Precast Concrete Vault

A. Place precast manhole on crushed rock base material that has been placed in maximum 12-inch lifts, loose thickness, and compact to at least 95-percent of the maximum dry density as determined by the standard Proctor compaction test, ASTM D698, at moisture content from 0- to 2-percent above optimum water content.

B. Contractor to grout all inlet and outlet pipes flush with manhole interior wall.

C. Inlet and outlet pipes shall be stubbed in and connected to precast concrete manhole according to Engineer's requirements and specifications.

3.2 When required, ballast shall be to the dimensions specified by the engineer and noted on the data block. Ballast shall not encase the inlet and/or outlet piping. Provide 12" clearance from outside diameter of pipe.

3.3 Clean Up

A. Remove all excess materials, rocks, roots, or foreign material, leaving the site in a clean, complete condition approved by the engineer. All filter components shall be free of any foreign materials including concrete and excess sealant.

3.4 Filter Cartridges

A. Construction site runoff shall be directed around the StormFilter unit. Filter cartridges shall not be placed online until the project site is clean and stabilized. The project site includes any surface that contributes storm drainage to the StormFilter™. All impermeable surfaces shall be clean and free of dirt and debris. All catch basins, manholes and pipes shall be free of dirt and sediments.

B. SMI will deliver filter cartridges complete with filter media preinstalled into vaults. Plugs will be provided for all manifold fittings not equipped with a filter cartridge.

C. Contractor shall prevent construction runoff from entering the StormFilter vault.

StormFilter Major Maintenance/Cartridge Replacement Data Sheet

Date: ______ **Personnel:** ______

Location: ______ **System Size:** ______

System Type: Vault Cast-In-Place Linear

List Safety Procedures and Equipment Used: ______

System Observations

Media Months in Service: ______

Oil and Grease in Forebay: Yes No ______

Sediment Depth in Forebay: ______

Sediment Depth on Vault Floor: ______

Structural Damage: ______

Drainage Area Report

Excessive Oil and Grease Loading: Yes No Source: ______

Sediment Accumulation on Pavement: Yes No Source: ______

Erosion of Landscaped Areas: Yes No Source: ______

StormFilter Cartridge Replacement Maintenance Activities

Remove Trash and Debris: Yes No Details: ______

Replace Cartridges: Yes No Details: ______

Sediment Removed: Yes No Details: ______

Quantity of Sediment Removed (estimate?): ______

Minor Structural Repairs: Yes No Details: ______

Residuals (debris, sediment) Disposal Methods: ______

Notes: ______

www.stormwater360.com Toll-free: 800.548.4667 9 of 9
©2005 Stormwater360 Vault, CIP and Linear StormFilter Operation and Maintenance Guidelines

StormFilter Minor Maintenance and Inspection Data Sheet

Date: ______ **Personnel:** ______

Location: ______ **System Size:** ______

System Type: Vault Cast-In-Place Linear

System Observations

Media Months in Service: ______

Oil and Grease in Forebay: Yes No ______

Sediment Depth in Forebay: ______

Sediment Depth on Vault Floor: ______

Structural Damage: ______

Estimated Flow from Drainage Pipes (if available): ______

Cartridges Submerged: Yes No How Deep: ______

StormFilter Minor Maintenance Activities (check off if done and give description)

Trash and Debris Removal: ______

Minor Structural Repairs: ______

Drainage Area Report

Excessive Oil and Grease Loading: Yes No Source: ______

Sediment Accumulation on Pavement: Yes No Source: ______

Erosion of Landscaped Areas: Yes No Source: ______

Items Needing Further Work: ______

Other Comments: ______

Review the condition reports from the previous minor and major maintenance visits.

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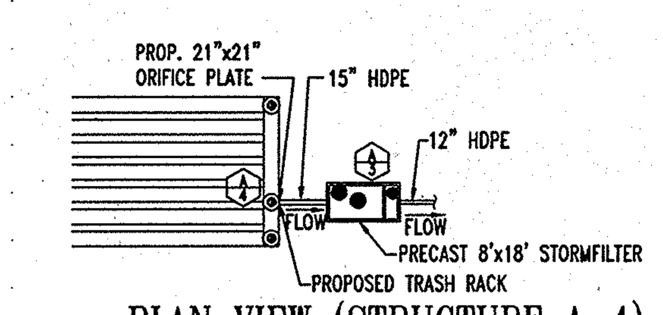
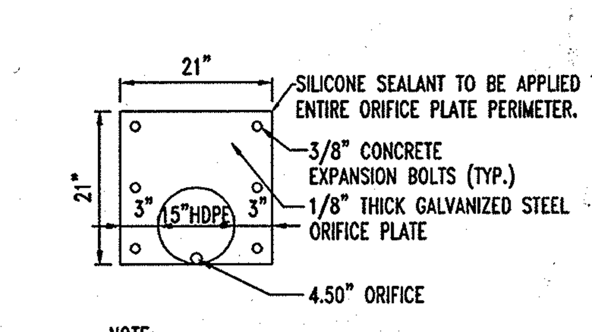


PLAN VIEW (STRUCTURE A-4)
NOT TO SCALE



NOTE:
1/8" STEEL THICK ORIFICE PLATE TO BE BOLTED TO THE UPSTREAM END OF THE 15" PIPE AND LOCATED INSIDE STRUCTURE A-4

ORIFICE PLATE DETAIL FOR STRUCTURE A-4
NOT TO SCALE

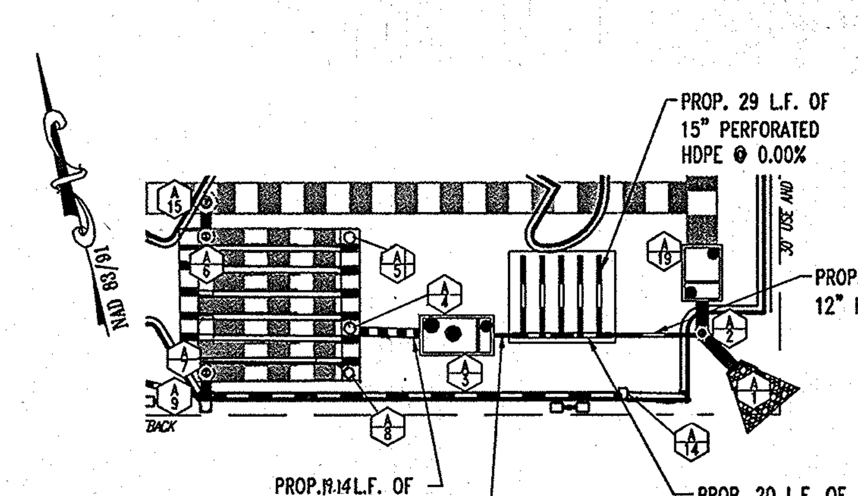
NOTE:
ALL PIPE CONNECTIONS WILL REQUIRE RUBBER GASKETS TO PROVIDE A WATERTIGHT JOINT

AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

5/15/2013 DATE
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

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



STORM DRAIN SYSTEM PLAN VIEW
NOT TO SCALE

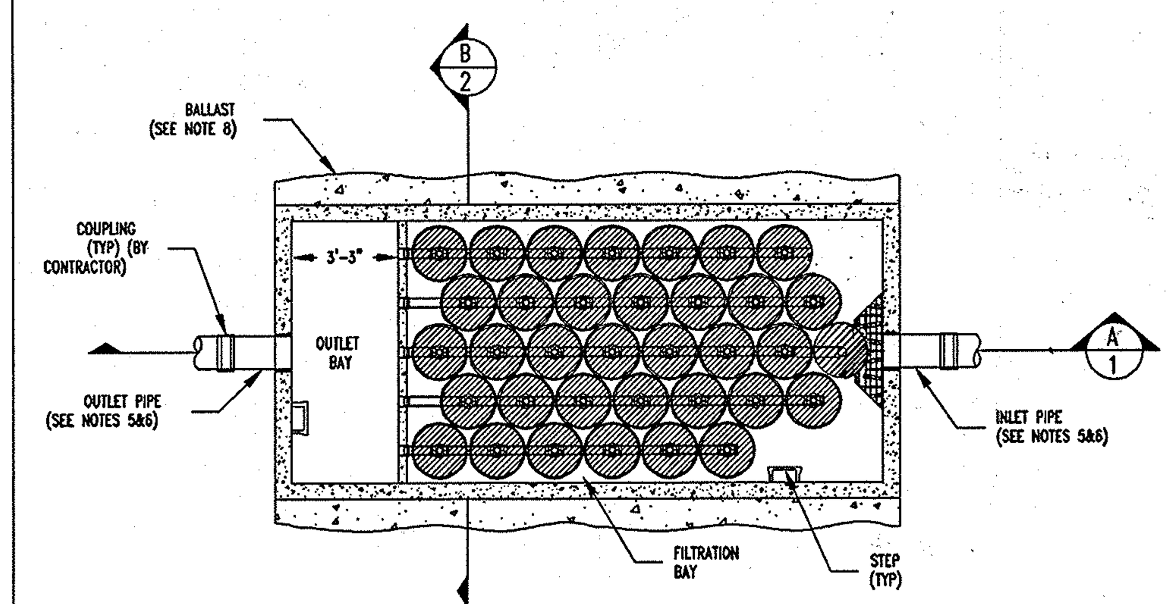
GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS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

STORMFILTER MAINTENANCE NOTES

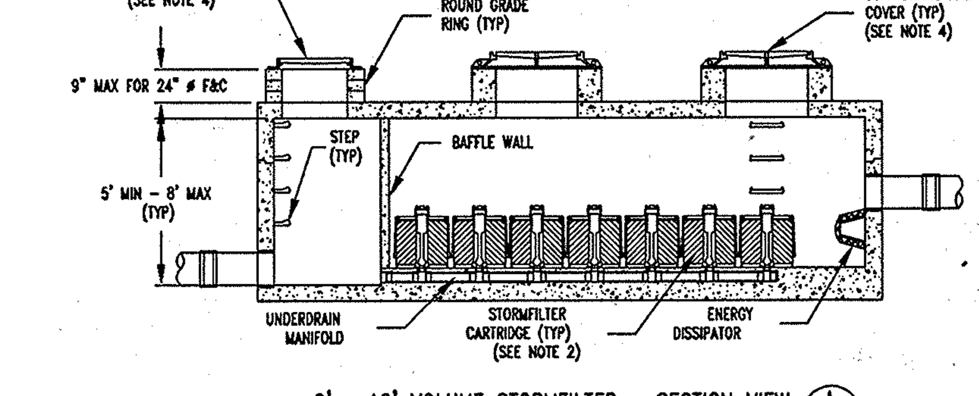
1. ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. MAINTENANCE FREQUENCY IS DEPENDENT UPON SITE CHARACTERISTICS AND POLLUTANT LOADING. TYPICAL MAINTENANCE INTERVAL IS 12 TO 18 MONTHS.
2. STORMFILTER MAINTENANCE INVOLVES REMOVAL AND REPLACEMENT OF FILTER CARTRIDGES, REMOVAL OF ACCUMULATED SEDIMENT, AND VAULT INSPECTION.
3. FULL MAINTENANCE SERVICES MAY BE PROVIDED BY STORMWATER MANAGEMENT, INC. REPLACEMENT CARTRIDGES ARE ALSO AVAILABLE FROM STORMWATER MANAGEMENT ON AN EXCHANGE BASIS TO FACILITATE OWNER-PROVIDED MAINTENANCE ACTIVITY.
4. SPENT FILTER MEDIA AND/OR SEDIMENT REMOVED DURING MAINTENANCE SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE WASTE DISPOSAL REGULATIONS.
5. REFER TO STORMFILTER OPERATION & MAINTENANCE GUIDELINES FOR MORE DETAILED INFORMATION OR CONTACT STORMWATER MANAGEMENT AT 800.548.4667.

NOTES/SPECIAL REQUIREMENTS:

STORMWATER MANAGEMENT INC.



8' x 18' VOLUME STORMFILTER – PLAN VIEW 1/1
SCALE: N.T.S.



8' x 18' VOLUME STORMFILTER – SECTION VIEW A/1
SCALE: N.T.S.

THE STORMWATER MANAGEMENT StormFilter ? U.S. PATENT No. 5,322,629, No. 5,707,527, No. 6,027,639 No. 6,649,048, No. 5,624,576, AND OTHER U.S. AND FOREIGN PATENTS PENDING

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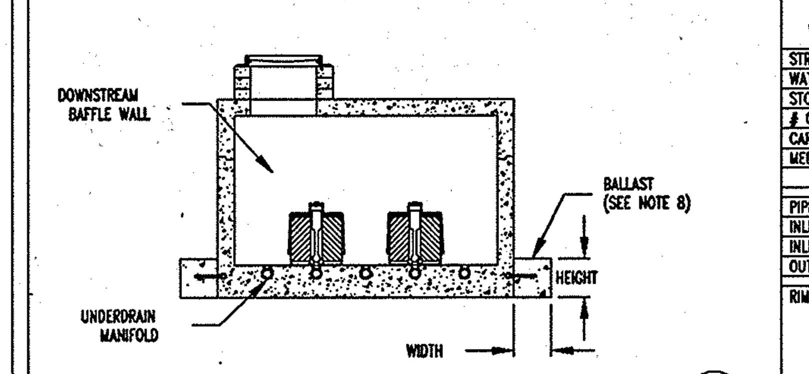
CONTECH STORMWATER SOLUTIONS contechstormwater.com

8' x 18' PRECAST VOLUME STORMFILTER PLAN AND SECTION VIEWS STANDARD DETAIL	DRAWING 1	1/2
DATE: 09/29/05 SCALE: NONE FILE NAME: SF818-PC-DTL	DRAWN: MJW	CHECKED: ARC

GENERAL NOTES

1) VOLUME STORMFILTER BY CONTECH STORMWATER SOLUTIONS, PORTLAND, OREGON (800) 548-4667.
2) FILTER CARTRIDGE(S) TO BE SIPHON-ACTUATED AND SELF-CLEANING. STANDARD DETAIL DRAWING SHOWS MAXIMUM NUMBER OF CARTRIDGES. ACTUAL NUMBER REQUIRED TO BE SPECIFIED ON SITE PLANS OR IN DATA TABLE BELOW
3) PRECAST VAULT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C857 AND C858. DETAIL DRAWING REFLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
4) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
5) VOLUME STORMFILTER REQUIRES 2.0 FEET OF DROP FROM INLET TO OUTLET. IF LESS DROP IS AVAILABLE, CONTACT CONTECH STORMWATER SOLUTIONS.
6) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST STORMFILTER VAULT EQUIPPED WITH CAST-IN BOOT CONNECTIONS AT INLET AND OUTLET LOCATIONS FOR WATER-TIGHT CONNECTIONS.
7) PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS. IF A SHALLOWER SYSTEM IS REQUIRED, CONTACT CONTECH STORMWATER SOLUTIONS FOR OTHER OPTIONS.
8) ANTI-FLOTATION BALLAST TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR, IF REQUIRED. BALLAST TO BE SET ALONG ENTIRE LENGTH OF BOTH SIDES OF THE STRUCTURE.
9) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR MORE INFORMATION.



8' x 18' VOLUME STORMFILTER – SECTION VIEW B/2
SCALE: N.T.S.

8' x 18' PRECAST VOLUME STORMFILTER DATA

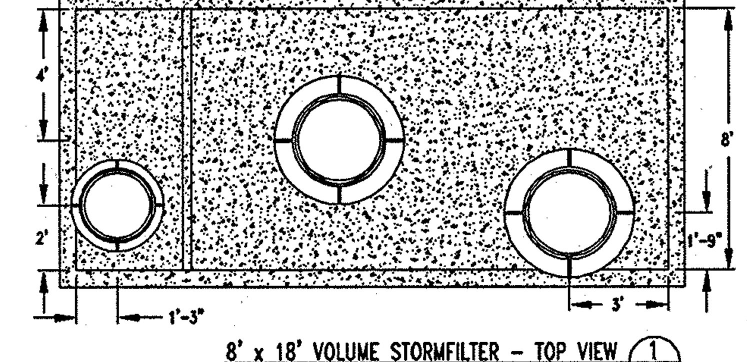
STRUCTURE ID	XXX
WATER QUALITY VOLUME (ft^3)	XXX
STORAGE IN STORMFILTER	XXX
# OF CARTRIDGES REQUIRED	XX
CARTRIDGE FLOW RATE (15 OR 7.5 gpm)	XX
MEDIA TYPE (CSF, PERLITE, ZPG)	XFCSF

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	XXX.XX'	XXX	XX"
INLET PIPE #2	XXX.XX'	XXX	XX"
OUTLET PIPE	XXX.XX'	XXX	XX"

RIM XXX.XX' — XXX.XX' — FLOW — XXX.XX'

LADDER		YES/NO
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	XX"	XX"

NOTES/SPECIAL REQUIREMENTS:



8' x 18' VOLUME STORMFILTER – TOP VIEW 1/2
SCALE: N.T.S.

THE STORMWATER MANAGEMENT StormFilter ? U.S. PATENT No. 5,322,629, No. 5,707,527, No. 6,027,639 No. 6,649,048, No. 5,624,576, AND OTHER U.S. AND FOREIGN PATENTS PENDING

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CONTECH STORMWATER SOLUTIONS contechstormwater.com

8' x 18' PRECAST VOLUME STORMFILTER TOP AND SECTION VIEWS, NOTES AND DATA STANDARD DETAIL	DRAWING 2	2/2
DATE: 09/29/05 SCALE: NONE FILE NAME: SF818-PC-DTL	DRAWN: MJW	CHECKED: ARC

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER
FOR REVISION 1 ONLY

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

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION 7/19/07 DATE

CHIEF-DIVISION & LAND DEVELOPMENT 8/3/07 DATE

DIRECTOR 8/8/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Wisen for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION DESCRIPTION
1	4/14/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

STORMWATER MANAGEMENT NOTES AND DETAILS

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

7/6/07
STATE OF MARYLAND MATTHEW T. ALLEN
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	18 OF 28

SDP # 07-033

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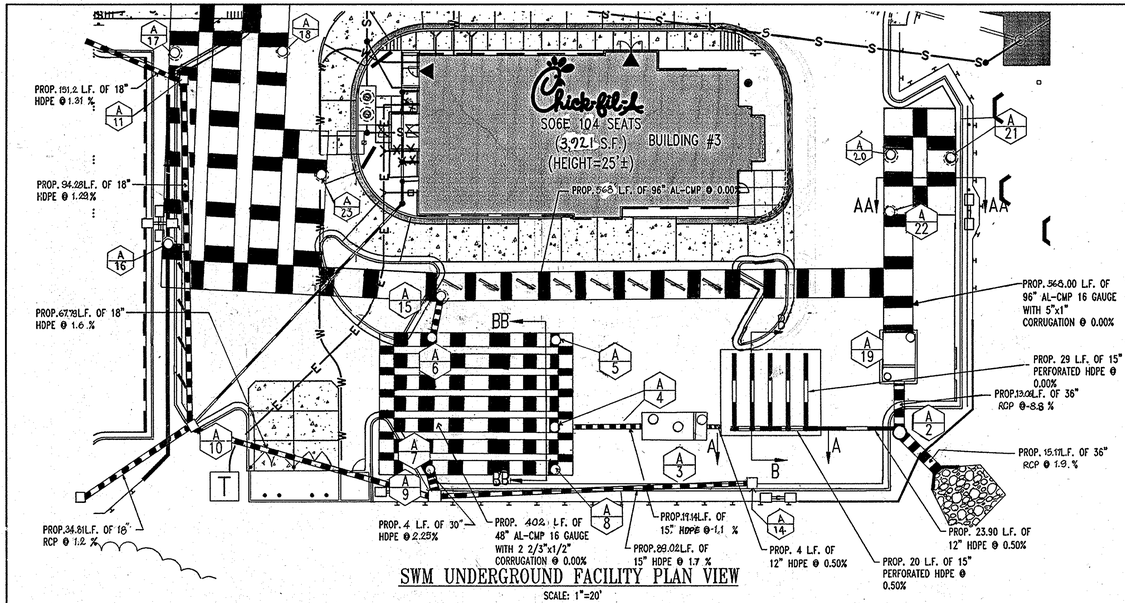
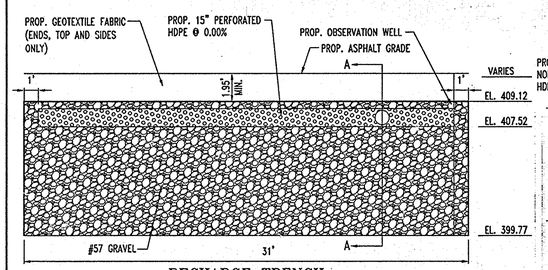


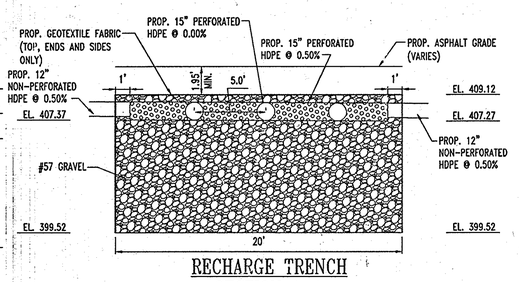
SWM UNDERGROUND FACILITY PLAN VIEW

SCALE: 1"=20'



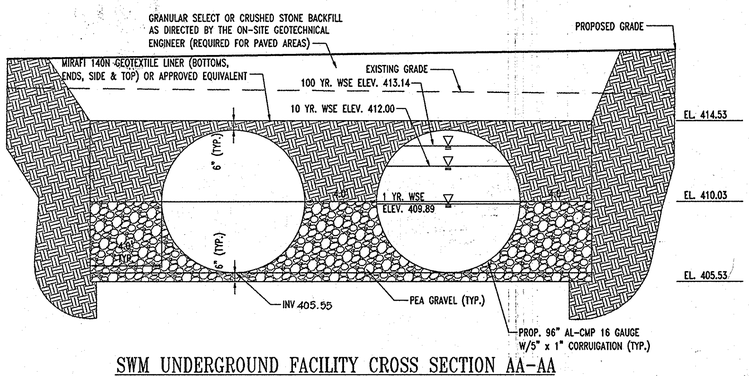
RECHARGE TRENCH SECTION B-B

SCALE: HORIZ.: 1"=5'
VERT.: 1"-5'



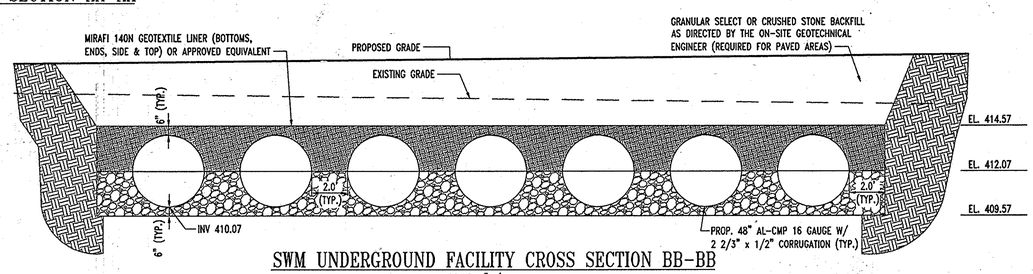
RECHARGE TRENCH SECTION A-A

SCALE: HORIZ.: 1"=5'
VERT.: 1"-5'



SWM UNDERGROUND FACILITY CROSS SECTION AA-AA

SCALE: 1"=4'



SWM UNDERGROUND FACILITY CROSS SECTION BB-BB

SCALE: 1"=4'

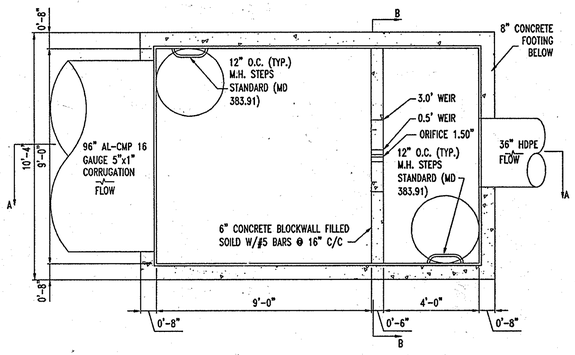
GENERAL NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS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

SOILS NOTES

1. FOOTING DESIGN BASES ON ASSUMES MAXIMUM ALLOWABLE SOILS BEARING CAPTICITY OF 2,000 PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.
2. SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.
3. BACKFILL SHALL BE PERFORMED IN 6" LIFTS COMPACTED TO 95% OPTIMUM PROCTOR DRY DENSITY.

CONCRETE NOTES

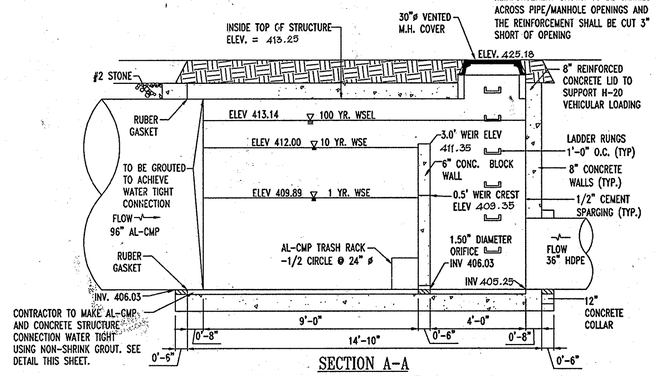
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
2. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1'-0".
3. ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, 6% (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
4. ALL FRAMEWORK, AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES, AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.



PLAN VIEW STR. #19

NOT TO SCALE

NOTE:
REINFORCEMENT SHOWN TO BE CARRIED ACROSS PIPE/MANHOLE OPENINGS AND THE REINFORCEMENT SHALL BE CUT 3" SHORT OF OPENING



SECTION A-A
OUTLET STRUCTURE DETAIL STR. #19

NOT TO SCALE

NOTE: ALL DEBRIS TO BE KEPT OUT OF FACILITY DURING CONSTRUCTION

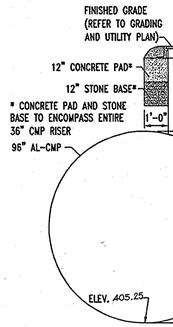
AS-BUILT CERTIFICATION

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21257 PROFESSIONAL LAND SURVEYOR



ACCESS PORT DETAIL

NOT TO SCALE

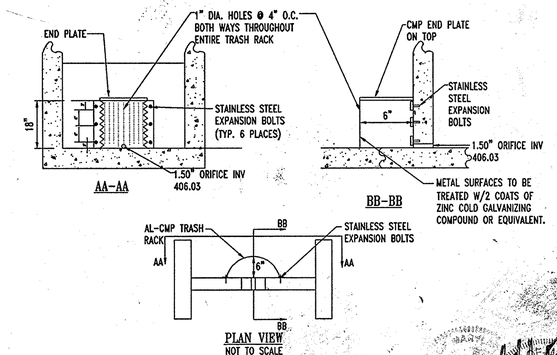
OPERATION AND MAINTENANCE SCHEDULE FOR UNDERGROUND FACILITIES

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

PROFESSIONAL CERTIFICATION
I, JOSEPH J. UCCIFERRO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 36084, EXPIRATION DATE: 6/30/2014.

STATE OF MARYLAND JOSEPH J. UCCIFERRO No. 36084 PROFESSIONAL ENGINEER

6-18-13
4 FOR REVISION 4 ONLY

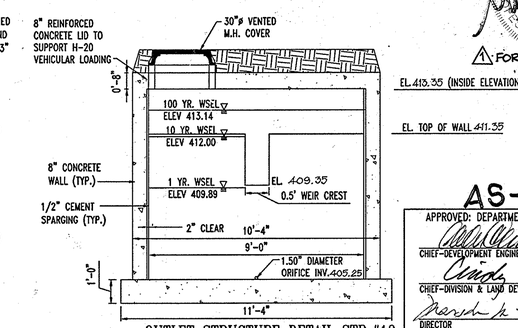


TRASH RACK DETAIL (STRUCTURE A-4)

*NOTE: ALL TRASH RACKS TO BE GALVINIZED AND PAINTED BATTLESHIP GREY.

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER

12/3/12
1 FOR REVISION 1 ONLY



OUTLET STRUCTURE DETAIL STR.#19 (SECTION B-B)

NOT TO SCALE

NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OR PRECASTING, SEE PLAN VIEW FOR TRASH RACK LOCATION.

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER
FOR REVISION 5 ONLY

STATE OF MARYLAND No. 28567 PROFESSIONAL ENGINEER
2 FOR REVISION 2 ONLY

MISS UTILITY

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER
3 FOR REVISION 3 ONLY

MISS UTILITY OF MARYLAND

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/9/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 7/9/07
DIRECTOR — DATE 7/9/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 8/2/07
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
5	4/14/15	REVISE TITLE
4	6/06/13	LENGTH OF STORAGE PIPE REVISION
3	4/17/08	SIDE AREA REVISED SEE CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	ACCESS PORT LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8550

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

STORMWATER MANAGEMENT NOTES AND DETAILS

BOHLER ENGINEERING, P.C.
• PROFESSIONAL ENGINEERING SERVICES •
• 810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286 •
• (410) 821-7900 FAX: (410) 821-7987 | BOHLERENG.COM •

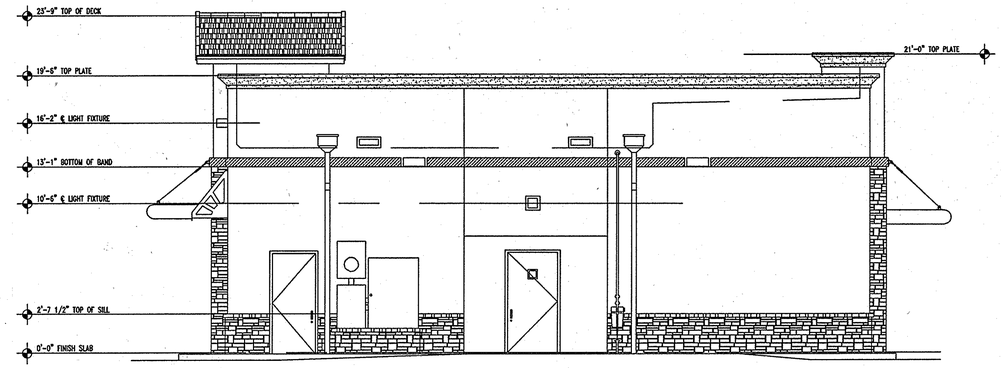
STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER
7/9/07
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	19 OF 28

SDP # 07-033

M:\03\chick-fil-a\M0056502\SITE SET\Rev 3\M0056502.1SS3.dwg, 7/3/2007 9:00:07 AM, rpadfrey

1 FRONT ELEVATION
1"=5'



2 REAR ELEVATION
1"=5'

1 SIDE ENTRY ELEVATION
1"=5'

2 D/T ELEVATION
1"=5'

2 D/T ELEVATION
1"=5'

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

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/19/2015
DATE

STATE OF MARYLAND
MICHAEL DAVID ADCOCK
No. 21257
PROFESSIONAL LAND SURVEYOR

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/9/07
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 8/6/07
DIRECTOR	DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	DATE 8/2/07

NO.:	DATE	REVISION DESCRIPTION
1	4/14/15	REVISE TITLE

OWNER:	DEVELOPER:
HOPKINS STATION GENERAL PARTNERSHIP C/O BRANTLY DEVELOPMENT GROUP 8835 COLUMBIA 100 PARKWAY, SUITE P COLUMBIA, MD 21045 PHONE: (410) 730-0810	CHICK-FIL-A 5200 BUFFINGTON ROAD ATLANTA, GA 30349-2998 C/O SCOTT PATMAN PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
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LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

STATE OF MARYLAND
MATTHEW T. AGERH
No. 32025
PROFESSIONAL ENGINEER

FOR REVISION 1 ONLY

MISS UTILITY

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

BUILDING ELEVATIONS

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX (410) 821-7901 | BOHLERENG.COM

7/6/07
STATE OF MARYLAND
MATTHEW T. AGERH
No. 32025
PROFESSIONAL ENGINEER
MATTHEW T. AGERH
PROFESSIONAL ENGINEER NO: 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	20 OF 28

SDP # 07-033

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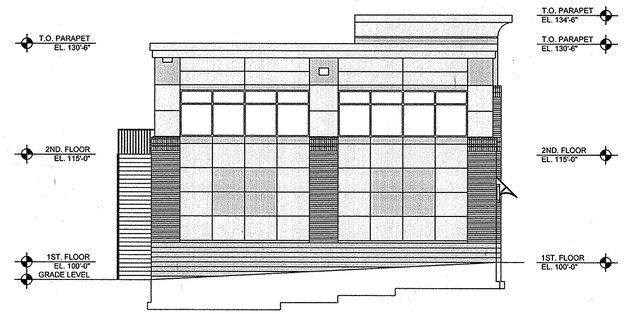
FRONT ELEVATION

SCALE: 1" = 10'



RIGHT ELEVATION

SCALE: 1" = 10'

AS-BUILT CERTIFICATION

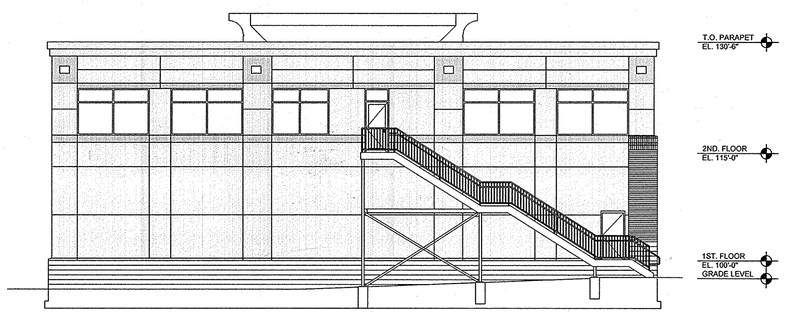
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

4-15-2019

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD. REG. NO. 21257, EXPIRATION DATE: 06-16-15

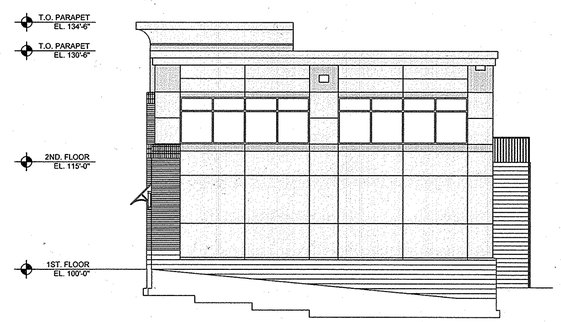
DATE

STATE OF MARYLAND · MICHAEL DAVID ADCOCK · No. 21257 · PROFESSIONAL LAND SURVEYOR



REAR ELEVATION

SCALE: 1" = 10'



LEFT ELEVATION

SCALE: 1" = 10'

THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS TO SHOW THE BUILDING #2 ELEVATIONS PER THE REVISED ARCHITECTURAL PLANS.

REVISED SITE DEVELOPMENT PLAN

OWNER/DEVELOPER

HOPKINS HOLDINGS, LLC
6339 TEN OAKS ROAD, SUITE 300
CLARKSVILLE, MARYLAND 21029

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 INCH = 10 FEET

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 4.22.15
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 4-27-15
DIRECTOR	DATE 4/27-15

No.	DESCRIPTION	DATE
1	ADD SHEET TO SHOW REVISED ELEVATIONS, BUILDING #2	04/12/2015

REVISIONS

BUILDING #2 ELEVATIONS
CHICK-FIL-A RESTAURANT AND MEDICAL BUILDING

PART OF LOT 1 HOPKINS STATION
(FORMERLY PRICE FARMS, LOT 1)

TAX MAP 41 GRID 22
5TH ELECTION DISTRICT

PARCEL 425
HOWARD COUNTY, MARYLAND

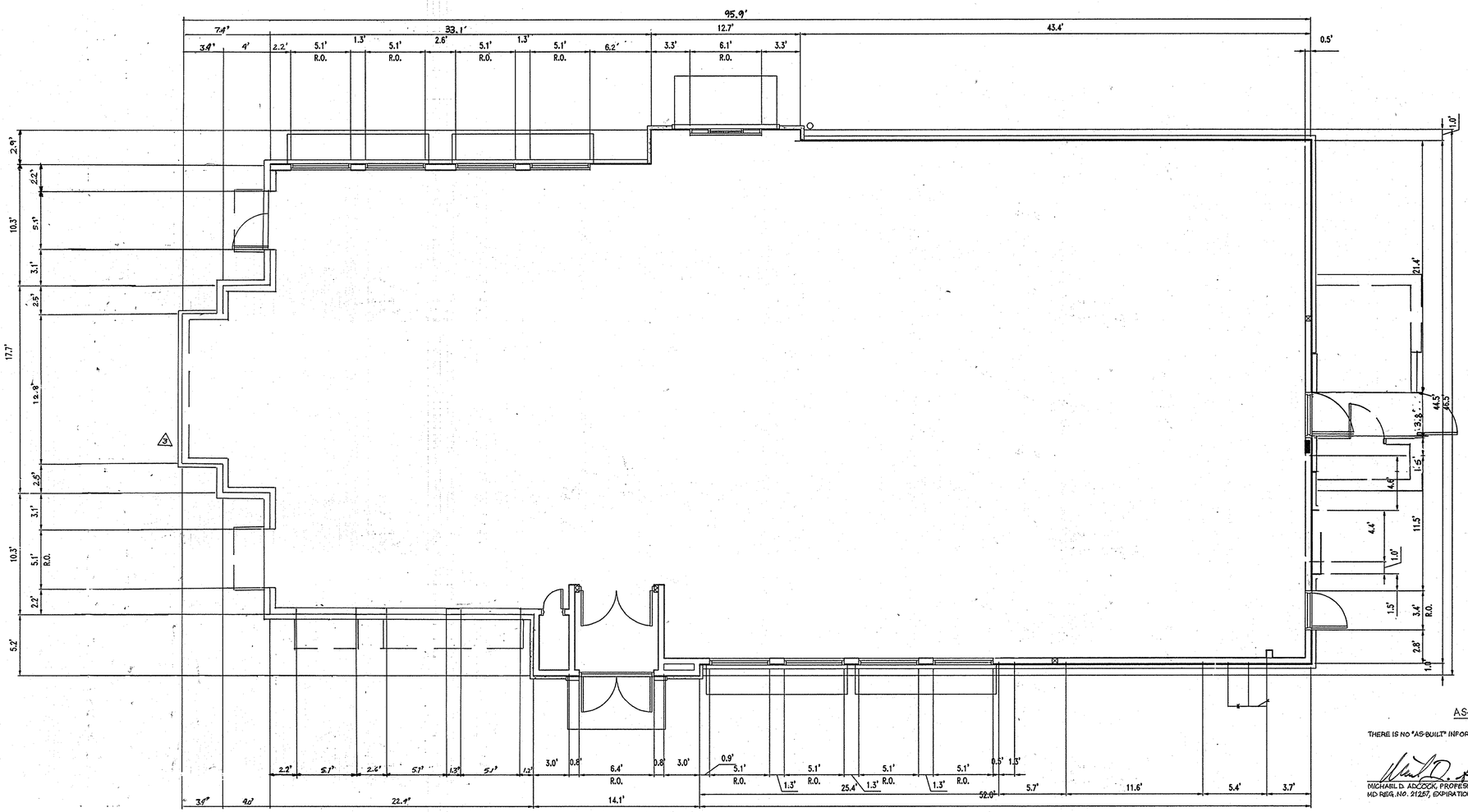
STATE OF MARYLAND · PAUL M. SILL · No. 32025 · PROFESSIONAL ENGINEER

SILL ENGINEERING GROUP, LLC
3300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682
Fax: 443.325.7683
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: PS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: APRIL 12, 2015
PROJECT #: 15-009
SHEET #: 21 of 28

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2015

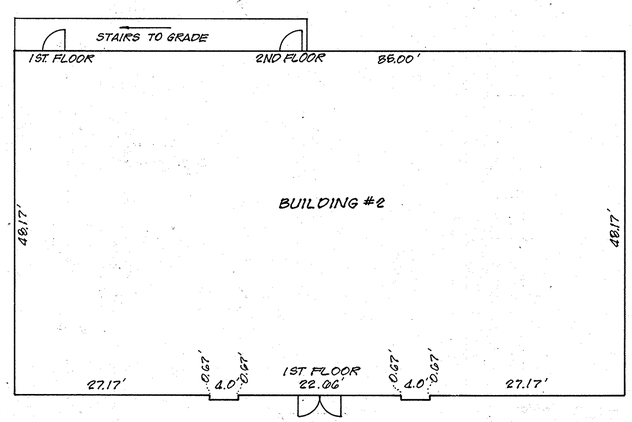
SDP-07-033



FIRST FLOOR CFA BUILDING FOOT PRINT

SCALE 1"=5'

NOTE:
REFER TO COMPLETE AND APPROVED ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.



MEDICAL BUILDING FOOTPRINT

SCALE: 1"=10'

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AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21257 PROFESSIONAL LAND SURVEYOR

2/19/2013
DATE

AS-BUILT

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 REGISTERED PROFESSIONAL ENGINEER

3 FOR REVISION 3 ONLY

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 REGISTERED PROFESSIONAL ENGINEER

2/19/13

1 FOR REVISION 1 ONLY

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 REGISTERED PROFESSIONAL ENGINEER

FOR REVISION 4 ONLY

MISS UTILITY

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/9/07
CHIEF-DIVISION, & LAND DEVELOPMENT	DATE 8/3/07
DIRECTOR	DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Nelson for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
4	4/12/16	REVISE BUILDING #2 & TITLE
3	4/12/08	SITE & AREA REVISED FOR CFA BUILDING
1	12/06/07	RETAIL BLDG. DIMENSIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8655 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

BUILDING FOOTPRINT

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX (410) 821-7987 | BOHLERENG.COM

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	22 OF 28

7/6/06 STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 REGISTERED PROFESSIONAL ENGINEER
MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

SDP # 07-033

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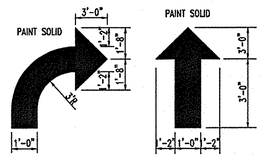
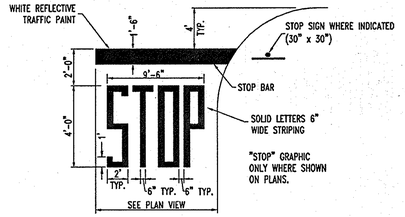


1/23 DIRECTIONAL ARROW

NOT TO SCALE

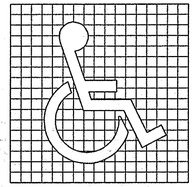
2/23 DRIVE-THRU GRAPHICS

NOT TO SCALE



3/23 STOP LINE GRAPHIC DETAIL

NOT TO SCALE

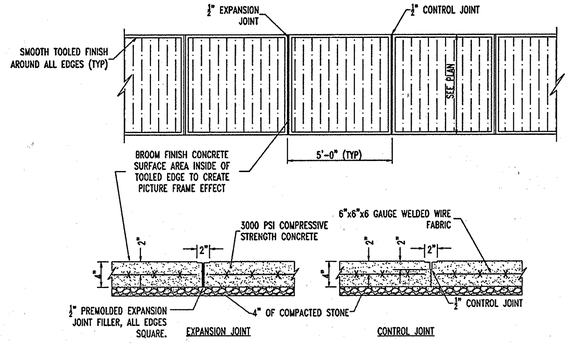


PROPORTIONS OF INTERNATIONAL SYMBOL OF ACCESSIBILITY

DISPLAY CONDITIONS OF INTERNATIONAL SYMBOL OF ACCESSIBILITY

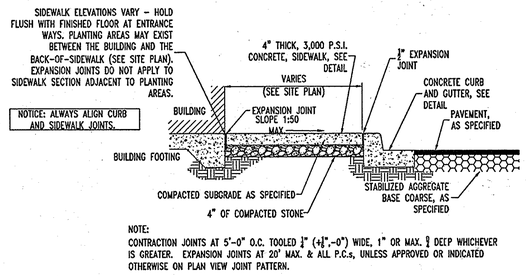
4/23 PAINTED HANDICAP SYMBOL

NOT TO SCALE



5/23 TYPICAL CONCRETE SIDEWALK

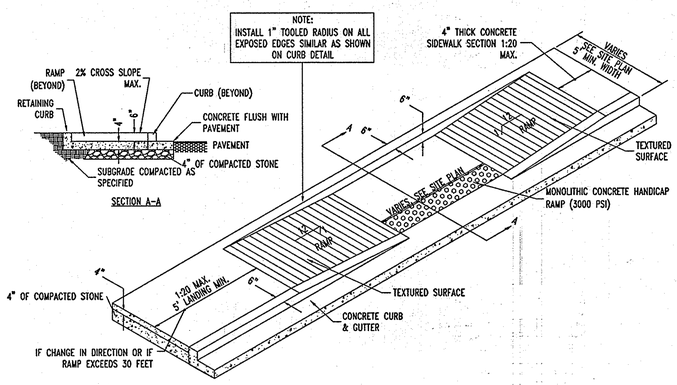
NOT TO SCALE



NOTE:
CONTRACTION JOINTS AT 5'-0" O.C. TOOLED ½" (+¼",-0") WIDE, 1" OR MAX. ¾ DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 20' MAX. & ALL P.C.s, UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

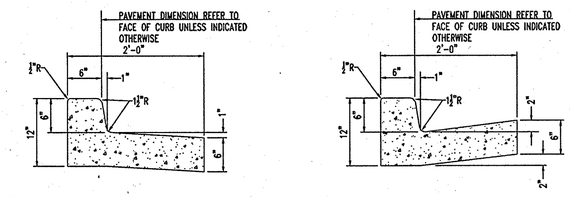
7/23 SIDEWALK WITH CURB & GUTTER SECTION

NOT TO SCALE



6/23 SIDEWALK HANDICAP RAMP DETAIL

NOT TO SCALE



A SPILLING CURB AND GUTTER

B CATCHING CURB AND GUTTER

CONCRETE FOR CURBING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

CONSTRUCTION STAKING FOR CURBING INSTALLATION SHALL BE REFERENCED (CUT OR FILL) TO THE FACE OF CURB

AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT THE EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE.

CONTRACTION JOINTS AT 10'-0" O.C. TOOLED 1/4" (±1/16",-0) WIDE, 1" OR MAX. D/4 DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 40' MAX. AND ALL P.C.'s, UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

8/23 24" CONCRETE CURB & GUTTER

NOT TO SCALE

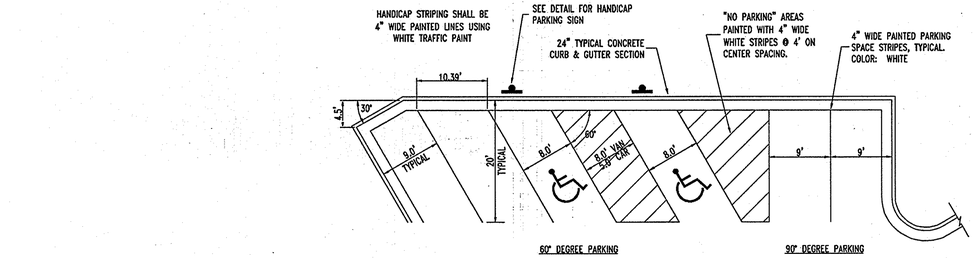
AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21257 PROFESSIONAL LAND SURVEYOR



60° DEGREE PARKING

90° DEGREE PARKING

NOTE:
HANDICAP PARKING AND ACCESSIBLE AISLES SHALL NOT EXCEED 1:50 IN SLOPE IN ANY DIRECTION. IF ONLY ONE ACCESS ISLE IS INSTALLED, IT IS TO BE A VAN SIZE.

NOTE:
PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY'S STANDARDS FOR THE DIMENSIONING SHOWN ON THE SITE LAYOUT PLAN.

TRAFFIC MARKING PAINT

1. SURFACE PREPARATION: SURFACE MUST BE CLEAN, DRY, AND IN SOUND CONDITION. REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION.

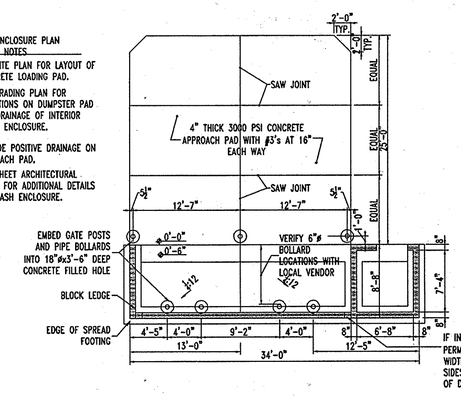
2. RECOMMENDED SPREADING RATE PER COAT: APPROXIMATELY 320 LINEAL FEET OF STANDARD 4" STRIPE PER GALLON.
WET MILS: 15.0
DRY MILS: 9.0
COVERAGE: 100 SQ. FT./GAL APPROXIMATE

9/23 STANDARD PARKING STALL

NOT TO SCALE

TRASH ENCLOSURE PLAN GENERAL NOTES

1. SEE SITE PLAN FOR LAYOUT OF CONCRETE LOADING PAD.
2. SEE GRADING PLAN FOR ELEVATIONS ON DUMPSTER PAD AND DRAINAGE OF INTERIOR TRASH ENCLOSURE.
3. PROVIDE POSITIVE DRAINAGE ON APPROACH PAD.
4. SEE SHEET ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS ON TRASH ENCLOSURE.



10/23 REFUSE ENCLOSURE ALTERNATE DRAINAGE PLAN

NOT TO SCALE

MAX. RISE/RUN FOR ACCESSIBLE RAMPS		
SLOPE	MAXIMUM RISE	MAXIMUM HORIZONTAL PROJECTION
1:12 TO < 1:16	30 INCHES	30 FEET
1:16 TO < 1:20	30 INCHES	40 FEET

RAMPS — SECTION 4.8.1 – 4.8.3
*ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH 4.8
*THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP.
*THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 36".
*SEE MAXIMUM RISE/RUN CHART FOR ACCEPTABLE SLOPES.

LANDINGS — SECTION 4.8.4
*LEVEL LANDINGS WILL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. LANDING LENGTH SHALL BE MIN. 60" AND BE AS WIDE AS RAMP MIN. 36".
*IF RAMP CHANGES DIRECTION LANDING WILL BE MIN. 60"x60"
*IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OR THE DOORWAY SHALL COMPLY WITH 4.13.6"

HANDRAILS — SECTION 4.8.5 AND 4.26
*IF A RAMP HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES"
*HANDRAIL WILL BE CONSTRUCTED OF WELDED STEEL PIPE – GRIND SMOOTH AND PAINT TO MATCH DARK BRONZE.

CROSS SLOPE — SECTION 4.8.6, 4.3.7
*THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.
*NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50.

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER

FOR REVISION 1 ONLY

MISS UTILITY

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/9/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 8/3/07
DIRECTOR — DATE 8/6/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER — DATE 8/2/07
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
1	4/10/12	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8855 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SITE DETAILS

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
810 GLEN EAGLES COURT SUITE 500, TOWSON, MD 21286
(410) 821-7900 FAX: (410) 821-7987 | WWW.bohlerengineering.com

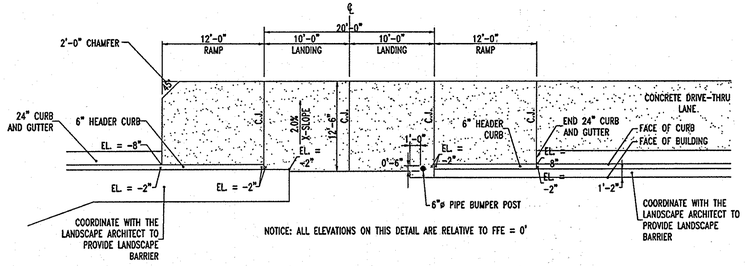
STATE OF MARYLAND MATTHEW T. MILLER No. 28567 PROFESSIONAL ENGINEER

MATTHEW T. MILLER
PROFESSIONAL ENGINEER NO. 28567

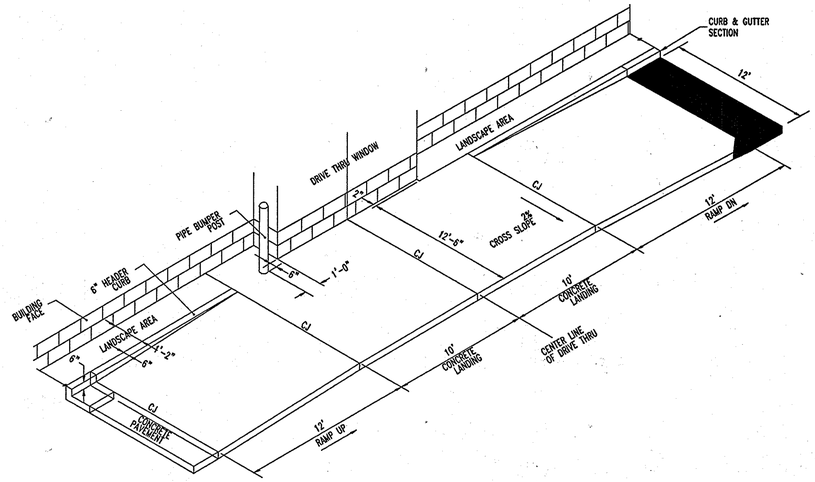
REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	23 OF 28

SDP # 07-033

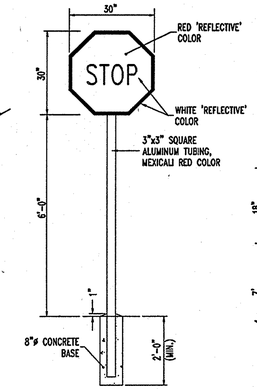
M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1S23.dwg, 7/5/2007 9:00:35 AM, rgadfrey



11/24 DRIVE-THRU PLAN
NOT TO SCALE

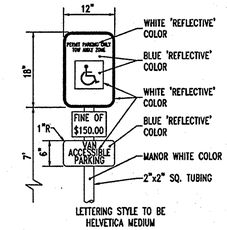


12/24 DRIVE-THRU ISOMETRIC
NOT TO SCALE

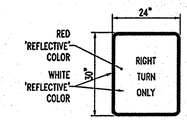


A
STOP SIGN & STANDARD MOUNTING POST

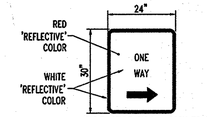
NOTE:
SIGNS SHALL BE FABRICATED USING S/F 0.08 NON-ILLUMINATED ALUMINUM WITH VINYL COPY APPLIED TO THE FIRST SURFACE.
NOTE:
VERIFY COLORS WITH LOCAL MUNICIPALITY.



B
HANDICAPPED PARKING SIGN

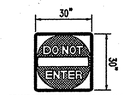


D
RIGHT TURN ONLY SIGN



(D.O.T. STYLE SIGN - COPY TO BE CHANGED AS NEEDED)

E
ONE WAY SIGN

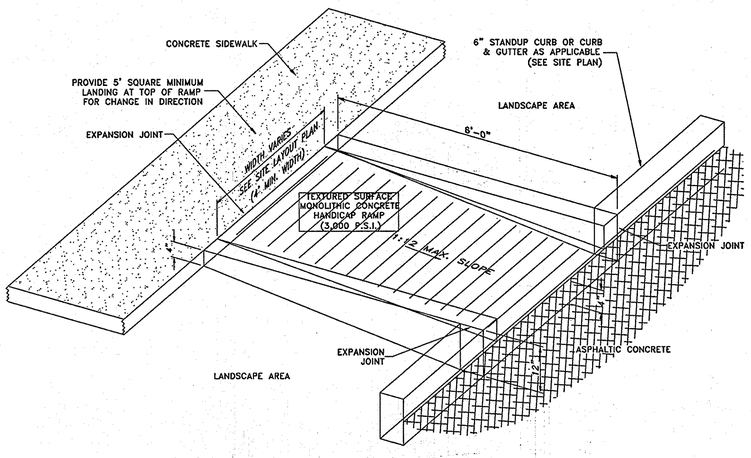


STANDARD RED AND WHITE SIGN

E
DO NOT ENTER

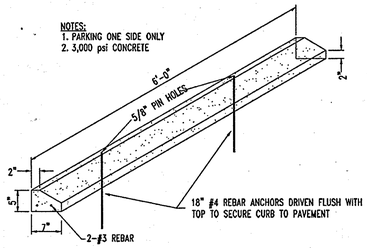
NOTE: "SIGNS PROVIDED AND INSTALLED BY CFA CONTRACTOR"

13/24 DIRECTIONAL SIGNAGE
NOT TO SCALE

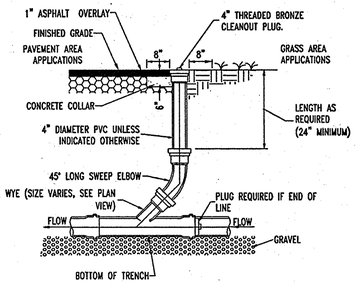


32/24 CURBED HANDICAP RAMP
NOT TO SCALE

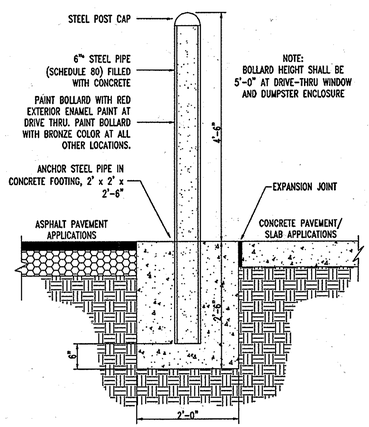
NOTES:
1. PARKING ONE SIDE ONLY
2. 3,000 psi CONCRETE



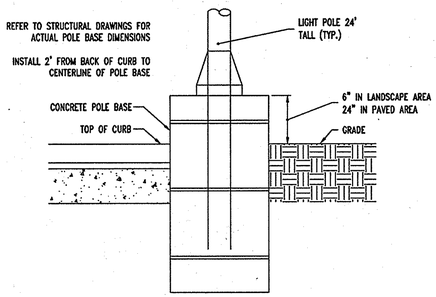
14/24 CONCRETE WHEEL STOP
NOT TO SCALE



15/24 SERVICE LINE CLEANOUT
NOT TO SCALE



16/24 PIPE BUMPER POST
NOT TO SCALE



17/24 TYPICAL POLE BASE
NOT TO SCALE

NOTE: THE LIGHT POLE BASE SHALL BE USED FOR REFERENCE PURPOSES ONLY. A STRUCTURAL ENGINEER SHALL DESIGN, SIGN & SEAL THE POLE BASE.

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

MICHAEL D. ADDOCK, PROFESSIONAL LAND SURVEYOR.
MD REG. NO. 21257, EXPIRATION DATE: 06-16-15

7/9/2013
DATE

STATE OF MARYLAND MICHAEL DAVID ADDOCK No. 21257 PROFESSIONAL LAND SURVEYOR

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

STATE OF MARYLAND PAUL J. SILVI No. 32025 PROFESSIONAL ENGINEER

FOR REVISION 1 ONLY

MISS UTILITY

DIG WITH C.A.R.E. CALL MISS UTILITY BEFORE MARYLAND

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

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

7/19/07
CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE

8/3/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE

8/6/07
DIRECTOR — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
1	4/14/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRAMTILY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SITE DETAILS

BOHLER ENGINEERING, P.C.
PROFESSIONAL ENGINEERING SERVICES
3310 GILKNEAGLES COURT, SUITE 300, TOWSON, MD 21286
(410) 821-7900 FAX (410) 821-7977 | BOHMD@bohler.com

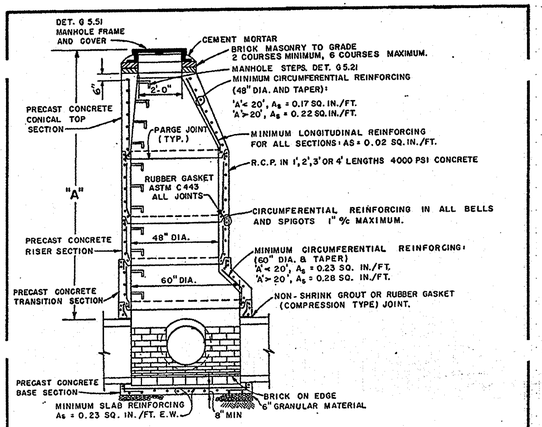
STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	24 OF 28

SDP # 07-033

M:\03\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1S3.dwg, 7/5/2007 9:00:40 AM, rgadfrey



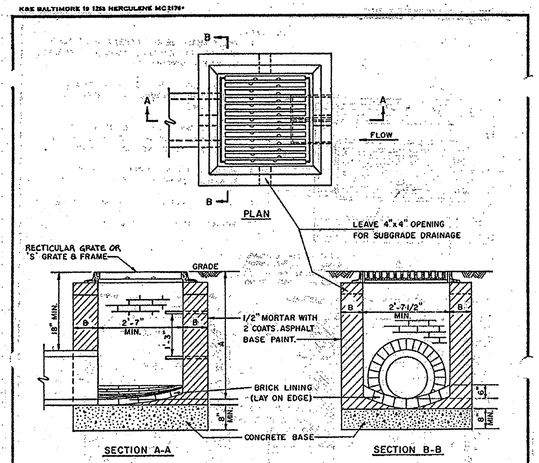
GENERAL NOTES APPLICABLE TO ALL PRECAST MANHOLES

1. MANHOLE BASE SHALL BE BEDDED ON 6-INCH GRANULAR MATERIAL ON FIRM SUBGRADE.
2. EXCAVATION BELOW PIPES SHALL BE BACKFILLED WITH GRANULAR OR SELECT MATERIAL 1/3 OF WAY TO TOP OF PIPE.
3. CONNECTION BETWEEN MANHOLE WALL AND SEWER SHALL BE NON-SHRINK GROUT OR RUBBER GASKET (COMPRESSION TYPE) JOINT.
4. MANHOLE STEPS SHALL BE AS SPECIFIED ON DETAIL G5.21. MANHOLE COVER SHALL BE AS SPECIFIED ON DETAIL G5.51
5. PROVIDE 2 COATS COAL TAR EPOXY COATING, 16 MIL. DRY. SANITARY SEWER ONLY. (EXTERIOR SURFACE ONLY)
6. PROVIDE PIPE JOINT WITHIN 2'-0" MAXIMUM FROM OUTSIDE OF MANHOLE WALL.
7. MANHOLE CHANNELS SHALL BE FORMED TO PROVIDE A SMOOTH HYDRAULIC TRANSITION BETWEEN PIPES. BENCHES SHALL BE TO TOP OF PIPE OR AS SHOWN ON PLANS. MANHOLE CHANNELS AND BENCHES SHALL BE FORMED FROM SEWER BRICK, GRADE SS, ASTM C-32.
8. MANHOLE SHALL BE IN ACCORDANCE WITH ASTM C478 EXCEPT AS SHOWN.

* EXCEPT STORM DRAIN PIPE

REV. MAR. 1984 REV. JAN. 1985 REV. JAN. 1986 REV. JAN. 1992

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-87 Chief-Bureau of Engineering	STANDARD PRECAST MANHOLES (18/25)	DRAWN BY J.M.C. / CHECKED BY J.L.W. / SCALE NONE / G5.11



NOTES:
1. BOTTOM SHALL BE MIX NO.3 CONCRETE.
2. WALLS CAN BE BRICK OR MIX NO. 3 CONCRETE.
3. B=8" WHERE A IS LESS THAN 8'
   B=12" WHERE A IS 8' TO 14'.
4. TOP 4" OF WALLS SHALL BE BRICK MASONRY. ADDITIONAL BRICK SHALL BE USED TO BRING THE GRATE TO EXISTING GRADE IF REQUIRED.
5. INVERTS SHALL BE BRICK, GRADE SM (ASTM C32)
6. WHERE A IS 3'-6" OR GREATER STANDARD MANHOLE STEPS SHALL BE INSTALLED AS SHOWN.

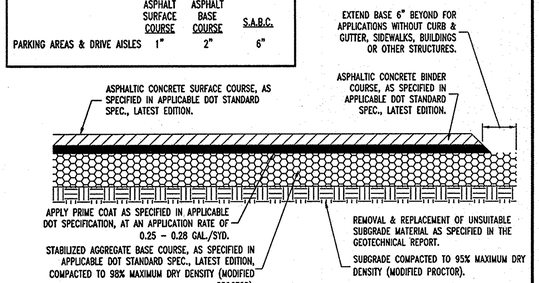
(19/25)

REV. JAN. 1989 REV. OCT. 1992 REV. JAN. 1996

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-87 Chief-Bureau of Engineering	TYPE 'S' INLET	DRAWN BY R.K.H. / CHECKED BY J.L.R. / SCALE NONE / SD-4.22

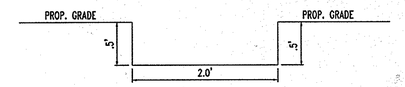
DESIGN PAVEMENT THICKNESS

	ASPHALT SURFACE COURSE	ASPHALT BASE COURSE	S.A.B.C.
PARKING AREAS & DRIVE AISLES	1"	2"	6"

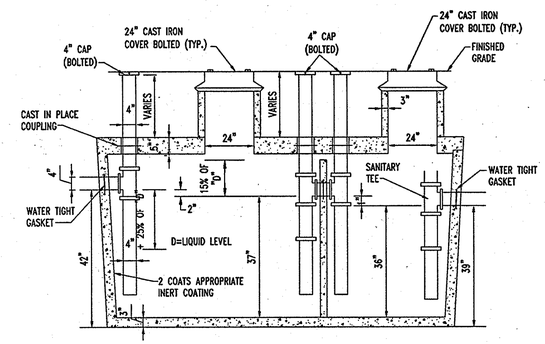


NOTE:
PAVEMENT SECTION SHOWN BASED ON A PROJECTED CBR OF 5 AS RECOMMENDED BY GEOTECHNICAL INVESTIGATION PREPARED BY GILES ENGINEERING, PROJECT NO. 3G-0608004, DATED 9/13/06. FINAL PAVEMENT DESIGN TO BE BASED ON ACTUAL CBR TEST RESULTS.

(21/25) TYPICAL PAVEMENT SECTION
NOT TO SCALE



(22/25) TYPICAL 2' FLUME DETAIL
NOT TO SCALE



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

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

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

-DIMENSION: 11'0"Lx5'Wx52"D (EXTERNAL DIMENSIONS)

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

(20/25) GREASE TRAP
NOT TO SCALE

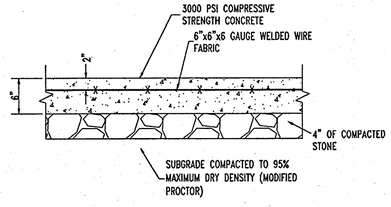
AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD REG. NO. 21257, EXPIRATION DATE: 06-16-13

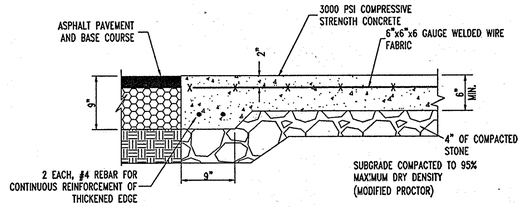
9/5/2013
DATE

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21257 PROFESSIONAL LAND SURVEYOR



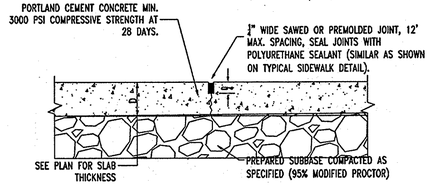
(25/25) CONCRETE PAVING DRIVE-THRU LANE
NOT TO SCALE

NOTE:
CONCRETE SECTION SHOWN BASED ON A PROJECTED CBR OF 5 AS RECOMMENDED BY GEOTECHNICAL INVESTIGATION PREPARED BY GILES ENGINEERING, PROJECT NO. 3G-0608004, DATED 9/13/06. FINAL PAVEMENT DESIGN TO BE BASED ON ACTUAL CBR TEST RESULTS.

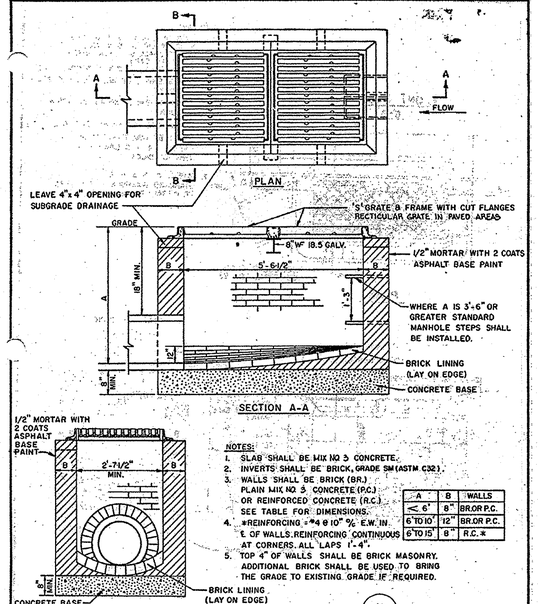


(27/25) CONCRETE APRON @ TRASH ENCLOSURE
NOT TO SCALE

NOTE:
CONCRETE SECTION SHOWN BASED ON A PROJECTED CBR OF 5 AS RECOMMENDED BY GEOTECHNICAL INVESTIGATION PREPARED BY GILES ENGINEERING, PROJECT NO. 3G-0608004, DATED 9/13/06. FINAL PAVEMENT DESIGN TO BE BASED ON ACTUAL CBR TEST RESULTS.



(28/25) TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT
NOT TO SCALE



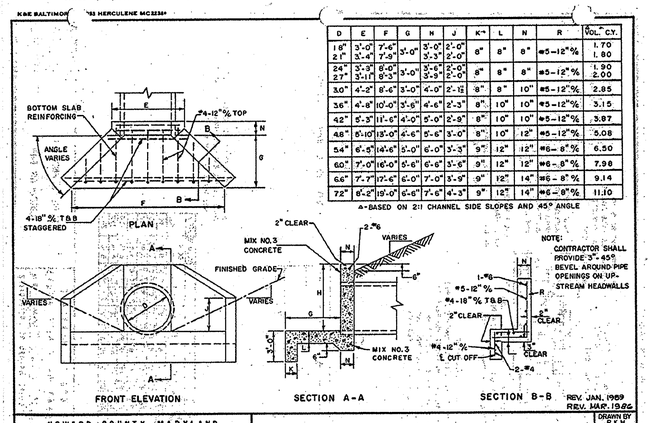
NOTES:
1. SLAB SHALL BE MIX NO 3 CONCRETE.
2. INVERTS SHALL BE BRICK, GRADE SM (ASTM C32).
3. WALLS SHALL BE BRICK (BR.) PLAIN MIX NO 3 CONCRETE (P.C.) OR REINFORCED CONCRETE (R.C.) SEE TABLE FOR DIMENSIONS.
4. *REINFORCING = #4 @ 10" % E.W. IN ℄ OF WALLS. REINFORCING CONTINUOUS AT CORNERS. ALL LAPS 1'-4".
5. TOP 4" OF WALLS SHALL BE BRICK MASONRY. ADDITIONAL BRICK SHALL BE USED TO BRING THE GRADE TO EXISTING GRADE IF REQUIRED.

A	B	WALLS
≤ 6'	8"	BR.OR P.C.
6' TO 10'	12"	BR.OR P.C.
6' TO 15'	8"	R.C.*

(24/25)

REV. JAN. 1989 REV. OCT. 1992 REV. JAN. 1996

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 10-8-96 Chief-Bureau of Engineering	DOUBLE TYPE 'S' INLET	DRAWN BY R.K.H. / CHECKED BY J.L.R. / SCALE NONE / SD-4.23

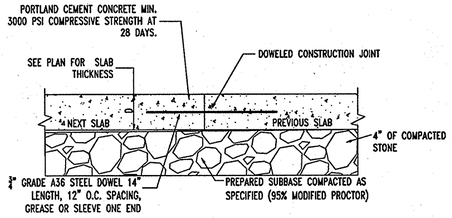


D	E	F	G	H	J	K*	L	N	R	VOL. C.Y.
18" / 21"	3'-0" / 3'-4"	7'-6" / 7'-9"	3'-0"	3'-0" / 3'-3"	2'-0" / 2'-0"	6"	8"	8"	#5-12" %	1.70 / 1.80
24" / 27"	3'-0" / 3'-11"	8'-0" / 8'-3"	3'-0"	3'-0" / 3'-3"	2'-0" / 2'-0"	6"	8"	8"	#5-12" %	1.90 / 2.00
30"	4'-2"	8'-6"	3'-0"	4'-0"	2'-1½"	8"	8"	10"	#5-12" %	2.85
36"	4'-8"	10'-0"	3'-6"	4'-6"	2'-3"	8"	10"	10"	#5-12" %	3.15
42"	5'-3"	11'-6"	4'-0"	5'-0"	2'-9"	8"	10"	10"	#5-12" %	3.87
48"	5'-10"	13'-0"	4'-6"	5'-6"	3'-0"	8"	10"	12"	#5-12" %	5.08
54"	6'-5"	14'-6"	5'-0"	6'-0"	3'-3"	9"	12"	12"	#6-8" %	6.50
60"	7'-0"	16'-0"	5'-6"	6'-6"	3'-6"	9"	12"	12"	#6-8" %	7.98
66"	7'-7"	17'-6"	6'-0"	7'-0"	3'-9"	9"	12"	14"	#6-8" %	9.14
72"	8'-2"	19'-0"	6'-6"	7'-6"	4'-3"	9"	12"	14"	#6-8" %	11.10

A-BASED ON 2:1 CHANNEL SIDE SLOPES AND 45° ANGLE

REV. JAN. 1989 REV. MAR. 1996

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 10-8-96 Chief-Bur. of Engr. Date	(29/25) TYPE 'A' HEADWALL CIRCULAR	DRAWN BY R.K.H. / CHECKED BY J.L.R. / SCALE NONE / SD-5.11



(30/25) TRANSVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT
NOT TO SCALE

STATE OF MARYLAND PAUL M. SILL No. 32025 PROFESSIONAL ENGINEER

FOR REVISION ONLY

MISS UTILITY

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

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

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[signature] CHIEF-DEVELOPMENT ENGINEERING DIVISION	7/19/07 DATE
[signature] CHIEF-DIVISION & LAND DEVELOPMENT	7/19/07 DATE
[signature] DIRECTOR	8/1/07 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

[signature] COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	8/2/07 DATE

NO.:	DATE	REVISION DESCRIPTION
1	4/15/15	REVISE TITLE

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8550

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L 3,095, F. 39 & L 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SITE DETAILS

BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLEN EAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900 FAX (410) 821-7987 | BOH@bohlereng.com •

STATE OF MARYLAND MATTHEW T. ALLEN No. 28567 PROFESSIONAL ENGINEER

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

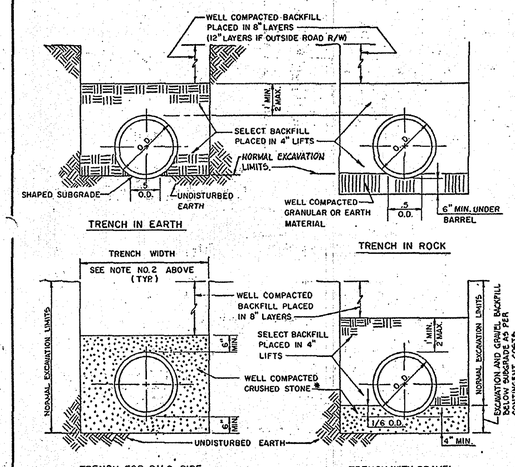
REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	25 OF 28

SDP # 07-033

M:\05\Chick-fil-a\M0056502\SITE SET\Rev 3\M0056502.1S3.dwg, 7/5/2007 8:06:42 AM, rgodfrey

NOTES :

1. WITHIN ROAD RIGHT-OF-WAY, TRENCH COMPACTION DENSITY SHALL BE 95% AS DETERMINED BY A.A.S.H.T.O. T-180-A
2. FOR PAY WIDTHS SEE DETAIL G 2.02 - A



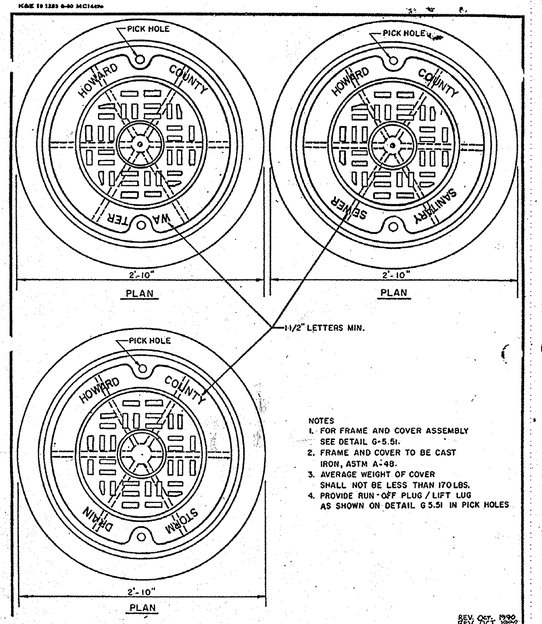
* MIN. 1/4" TO 1-1/2" MAX. DIAMETER

REV. MAR 1986 REV. JAN. 1989 REV. JAN 1990 REV. JAN. 1984 REV. JAN. 1992

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	TRENCH BEDDING DETAILS	DRAWN BY R.K.H. CHECKED BY J.L.R. SCALE NONE G 2.01

33/26

K&E 10 1283 8-80 MC1448e

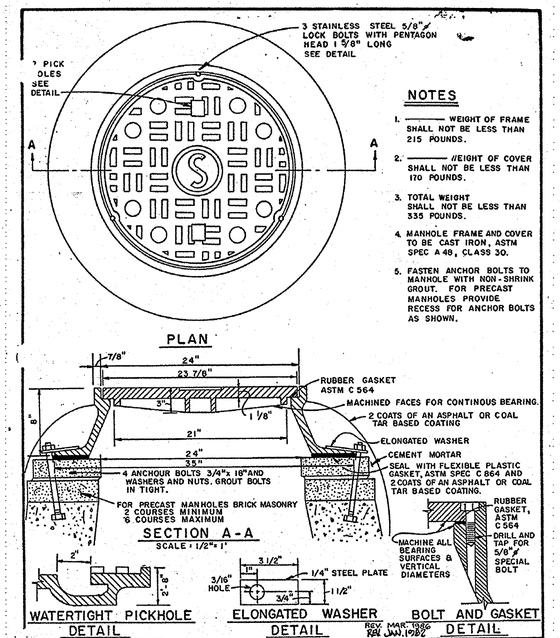


NOTES
1. FOR FRAME AND COVER ASSEMBLY SEE DETAIL G-5.51.
2. FRAME AND COVER TO BE CAST IRON, ASTM A-48.
3. AVERAGE WEIGHT OF COVER SHALL NOT BE LESS THAN 170 LBS.
4. PROVIDE RUN-OFF PLUG / LIFT LUG AS SHOWN ON DETAIL G 5.51 IN PICK HOLES

REV. OCT. 1990 REV. OCT. 1992 REV. JAN. 1994

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	LETTERING FOR MANHOLE COVERS	DRAWN BY A.J.M. CHECKED BY W.H. SCALE NONE G-5.53

34/26



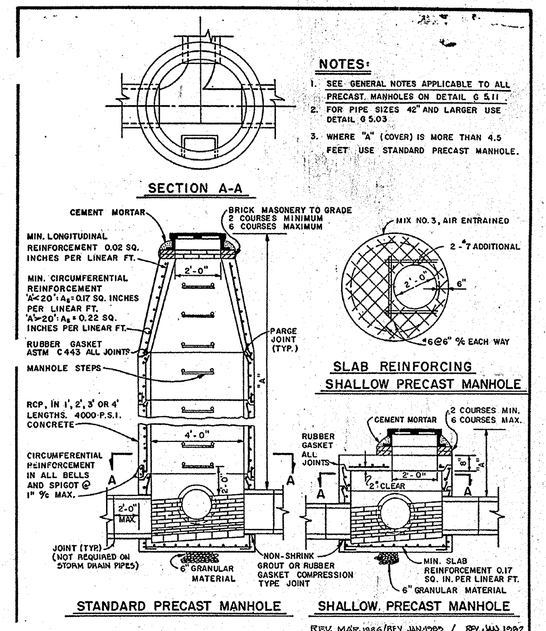
NOTES

1. ——— WEIGHT OF FRAME SHALL NOT BE LESS THAN 215 POUNDS.
2. ——— WEIGHT OF COVER SHALL NOT BE LESS THAN 170 POUNDS.
3. TOTAL WEIGHT SHALL NOT BE LESS THAN 335 POUNDS.
4. MANHOLE FRAME AND COVER TO BE CAST IRON, ASTM SPEC A 48, CLASS 30.
5. FASTEN ANCHOR BOLTS TO MANHOLE WITH NON-SHRINK GROUT. FOR PRECAST MANHOLES PROVIDE RECESS FOR ANCHOR BOLTS AS SHOWN.

REV. MAR. 1986 REV. JAN. 1992

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	WATERTIGHT MANHOLE FRAME AND COVER	DRAWN BY: J.M.C. CHECKED BY: F.A.W. SCALE: NONE G 5.52

35/26

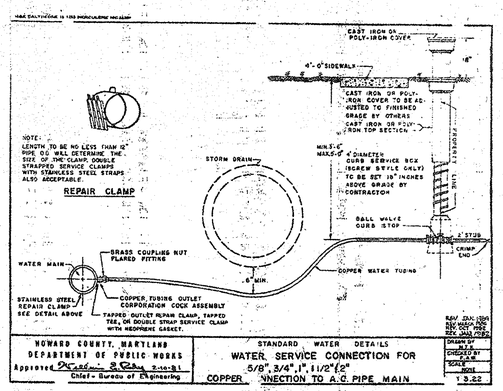


REV. MAR. 1986 / REV. JAN. 1992 / REV. JAN. 1992

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	4'-0" STANDARD AND SHALLOW PRECAST MANHOLE FOR USE WITH 24" AND SMALLER PIPE	DRAWN BY: J.M.C. CHECKED BY: F.A.W. SCALE: NONE G 5.12

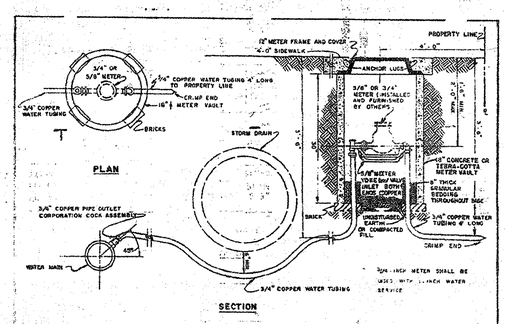
36/26

K&E DALYTRONE 10 1283 (NORCUSLENE) 8-80 A.S.M.

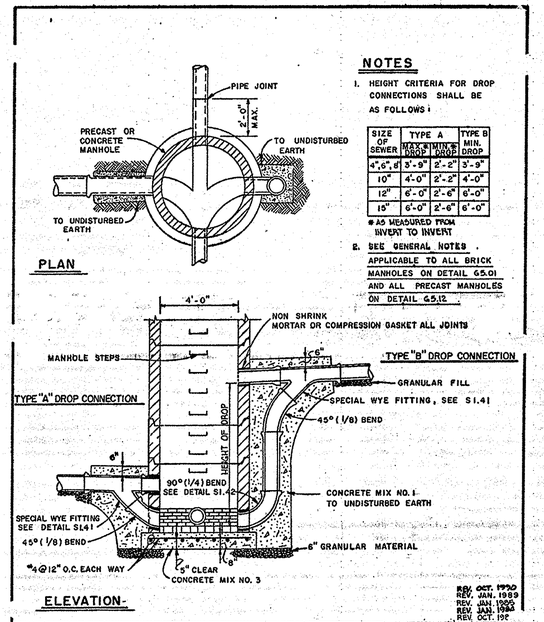


REV. JAN. 1984 REV. MAR. 1986 REV. JAN. 1992 REV. JAN. 1992

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	STANDARD WATER DETAILS WATER SERVICE CONNECTION FOR 5/8", 3/4", 1", 1 1/2" & 2" COPPER CONNECTION TO A.C. PIPE MAIN	DRAWN BY R.K.H. CHECKED BY F.A.W. SCALE NONE W 3.22



HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	STANDARD WATER DETAILS STANDARD INSTALLATION FOR 5/8" AND 3/4" METER SETTINGS	DRAWN BY: F.A.W. CHECKED BY: F.A.W. SCALE: NONE W 3.31



NOTES

1. HEIGHT CRITERIA FOR DROP CONNECTIONS SHALL BE AS FOLLOWS :

SIZE OF SEWER	TYPE A (LESS THAN 2' DROP)	TYPE B (MIN. DROP)
4", 6", 8"	3'-9"	2'-2" / 3'-9"
10"	4'-0"	2'-2" / 4'-0"
12"	6'-0"	2'-6" / 6'-0"
15"	6'-0"	2'-6" / 6'-0"

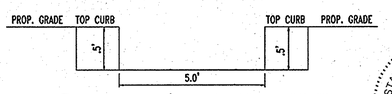
* AS MEASURED FROM INVERT TO INVERT

2. SEE GENERAL NOTES APPLICABLE TO ALL BRICK MANHOLES ON DETAIL G5.01 AND ALL PRECAST MANHOLES ON DETAIL G5.12

REV. OCT. 1990 REV. JAN. 1989 REV. JAN. 1992 REV. JAN. 1994 REV. OCT. 192

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS Approved [signature] 2-10-81 Chief - Bureau of Engineering	DROP MANHOLE TYPE "A" AND TYPE "B"	DRAWN BY: A.M.D. CHECKED BY: F.A.W. SCALE: NONE S 1.32

39/26



37/26 TYPICAL 5' CURB CUT DETAIL
NOT TO SCALE

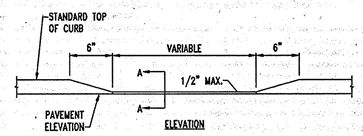
AS-BUILT CERTIFICATION

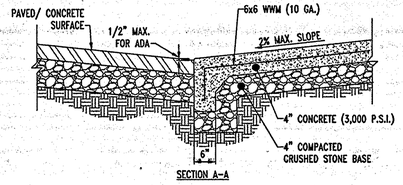
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ABCOCK, PROFESSIONAL LAND SURVEYOR
MD. REG. NO: 21257, EXPIRATION DATE: 06-16-13

5/15/2013
DATE

STATE OF MARYLAND MICHAEL D. ABCOCK No. 21257 PROFESSIONAL LAND SURVEYOR





NOSE DOWN CURB & DEPRESSED CURB/ADA ACCESS DETAIL
NOT TO SCALE

40/26

MISS UTILITY

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

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

2 FOR REVISION 2 ONLY

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE 7/9/07
CHIEF-DIVISION & LAND DEVELOPMENT	DATE 5/3/07
DIRECTOR	DATE 5/9/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	DATE 8/7/07

NO.:	DATE	REVISION DESCRIPTION
3	4/15/13	REVISE TITLE
2	2/21/08	RELOCATION LINE & CFA SERVICE YARD REVISIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2,
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SITE DETAILS

BOHLER ENGINEERING, P.C.
• PROFESSIONAL ENGINEERING SERVICES •
• 9110 GLENWOOD AVE., COUNTY, SUITE 300, TOWSON, MD 21286 •
• (410) 821-7960 FAX: (410) 821-7961 | BOHLERENG.COM •

STATE OF MARYLAND MATTHEW A. KEIL PROFESSIONAL ENGINEER NO. 28567

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	26 OF 28

SDP # 07-033

GENERAL NOTE:
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M:\01\Chick-fil-a\M0056502\SITE SET\Rev 3\M0056502-1SS3.dwg, 7/3/2007 9:00:48 AM, rgodfrey

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 1 - Northwest Building Corner
SURFACE ELEVATION: 424.0
COMPLETION DATE: 8/31/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	20				10	BDL	
Orange-Red to Red Micaceous Silty fine Sand - Moist		2-SS	22				13	BDL	P200 = 23%
- Rock Fragments from 4 feet to 6± feet	5	3-SS	29+50/5"*				17	BDL	
- Rock Fragments from 8 feet to 10± feet		4-SS	17				13	BDL	
	10	5-SS	67*				14	BDL	
	15	6-SS	30				15	BDL	

Boring terminated at 16 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	*N-value elevated due to rock fragments
WATER LEVEL AFTER REMOVAL: None	P200 = Percent Passing No. 200 Sieve
CAVE DEPTH AFTER REMOVAL: 10.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 2 - Southwest Building Corner
SURFACE ELEVATION: 419.0
COMPLETION DATE: 8/31/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
2"± Red-Brown Silty fine Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	28				13	BDL	
Orange-Red to Red Micaceous Silty fine to medium Sand - Moist		2-SS	31				13	BDL	
	5	3-SS	19				15	BDL	
		4-SS	14				13	BDL	
	10	5-SS	21				10	BDL	
	15	6-SS	28				14	BDL	

Boring terminated at 16 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 10.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 3 - Southeast Building Corner
SURFACE ELEVATION: 417.0
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	17				11	BDL	
Orange-Red to Red Silty fine to medium Sand - Moist		2-SS	22				10	BDL	P200 = 21%
	5	3-SS	22				15	BDL	
- Rock Fragments from 6 feet to 11± feet		4-SS	39+50/3"*				12	BDL	
	10	5-SS	25				14	BDL	
Light Brown, Red Micaceous Silty fine to medium Sand (Possible Weathered Bedrock) - Moist	15	6-SS	47+50/3"*				16	BDL	

Boring terminated at 16 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	*N-value elevated due to rock fragments
WATER LEVEL AFTER REMOVAL: None	P200 = Percent Passing No. 200 Sieve
CAVE DEPTH AFTER REMOVAL: 10.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 4 - Northeast Building Corner
SURFACE ELEVATION: 418.5
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
2"± Red-Brown Silty fine Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	32				10	BDL	
Orange-Red to Red Micaceous Silty fine to medium Sand - Moist		2-SS	41				9	BDL	
	5	3-SS	22				15	BDL	
		4-SS	30				13	BDL	
	10	5-SS	32				12	BDL	
	15	6-SS	40				10	BDL	

Boring terminated at 16 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 11.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 5 - Northwest Pavement
SURFACE ELEVATION: 413.0
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine to medium Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	13				13	BDL	
Orange-Red to Red Micaceous Silty fine to medium Sand - Moist		2-SS	30				16	BDL	
	5	3-SS	32				15	BDL	

Boring terminated at 6 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 5.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 6 - Southwest Pavement
SURFACE ELEVATION: 418.0
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine to medium Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	28				12	BDL	
Orange-Red to Red Micaceous Silty fine to medium Sand - Moist - Cobbles/Boulders from 2 feet to 4± feet		2-SS	57*				12	BDL	
	5	3-SS	34				14	BDL	

Boring terminated at 6 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	*N-value elevated due to rock fragments
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 4.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

BORING NO. & LOCATION: 7 - Southeast Pavement
SURFACE ELEVATION: 420.0
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine to medium Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	33				12	BDL	
Orange-Red to Red Micaceous Silty fine to medium Sand - Moist - Rock Fragments from 2 feet to 4± feet		2-SS	47*				13	BDL	
	5	3-SS	15				10	BDL	

Boring terminated at 6 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	*N-value elevated due to rock fragments
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 4.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC. — Milwaukee Los Angeles Madison Dallas Atlanta Washington, D.C.

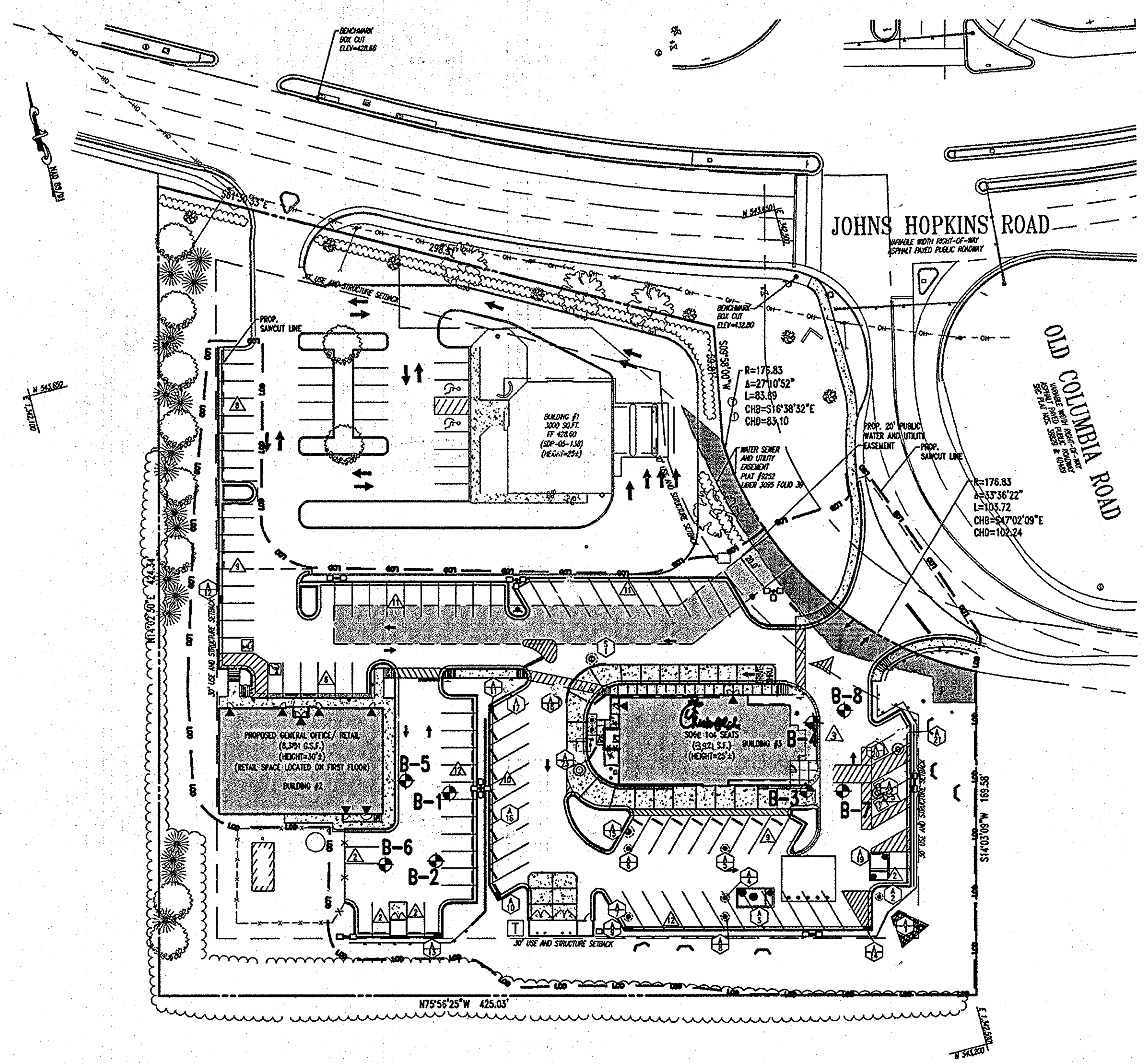
BORING NO. & LOCATION: 8 - Northeast Pavement
SURFACE ELEVATION: 422.0
COMPLETION DATE: 8/30/06
FIELD REPRESENTATIVE: Mike Kroenke
PROJECT: Proposed Chick-fil-A Restaurant
PROJECT LOCATION: 10985 Johns Hopkins Road, Columbia, Maryland
GILES PROJECT NUMBER: 3G-0608004

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
3"± Red-Brown Silty fine Sand, trace Organic Matter (fine Roots) (Topsoil) - Moist		1-SS	10				13	BDL	
Orange-Red to Red Micaceous Silty fine Sand - Moist		2-SS	17				12	BDL	
	5	3-SS	22				14	BDL	

Boring terminated at 6 feet

WATER OBSERVATION DATA	REMARKS
WATER ENCOUNTERED DURING DRILLING: None	
WATER LEVEL AFTER REMOVAL: None	
CAVE DEPTH AFTER REMOVAL: 3.0 ft.	
WATER LEVEL AFTER HOURS:	
CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between borings. Location of Test Boring is shown on the Boring Location Plan.



PLAN VIEW
SCALE 1"=50'

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

M:\05\Chick-fil-a\MD056502\SITE SET\Rev 3\MD056502.1SS3.dwg, 7/5/2007 9:00:53 AM, rgodfrey

AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD. REG. NO. 21257, EXPIRATION DATE: 06-16-15

5/15/2013
DATE

STATE OF MARYLAND — MICHAEL DAVID ADCOCK — No. 21257 — PROFESSIONAL LAND SURVEYOR

STATE OF MARYLAND — PAUL M. SILL — No. 32025 — PROFESSIONAL ENGINEER
FOR REVISION 4 ONLY

STATE OF MARYLAND — MATTHEW T. ALLEN — NO. 28567 — PROFESSIONAL ENGINEER
3 FOR REVISION 3 ONLY

STATE OF MARYLAND — PROFESSIONAL ENGINEER
2 FOR REVISION 2 ONLY

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — 12/12/07
1 FOR REVISION 1 ONLY

MISS UTILITY
DIG WITH C.A.R.E. — CALL MISS UTILITY — KEEP MARYLAND SAFE
BEFORE YOU DIG CALL
1-800-257-7777
PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE

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

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

AS-BUILT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE 7/19/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE 8/3/07
DIRECTOR — DATE 8/8/07

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.

B Nixon for Peter Beilenson 8/2/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
4	4/16/15	REVISE TITLE
3	4/7/08	SIZE & AREA REVISED FOR CFA BUILDING
2	2/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS PORT LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

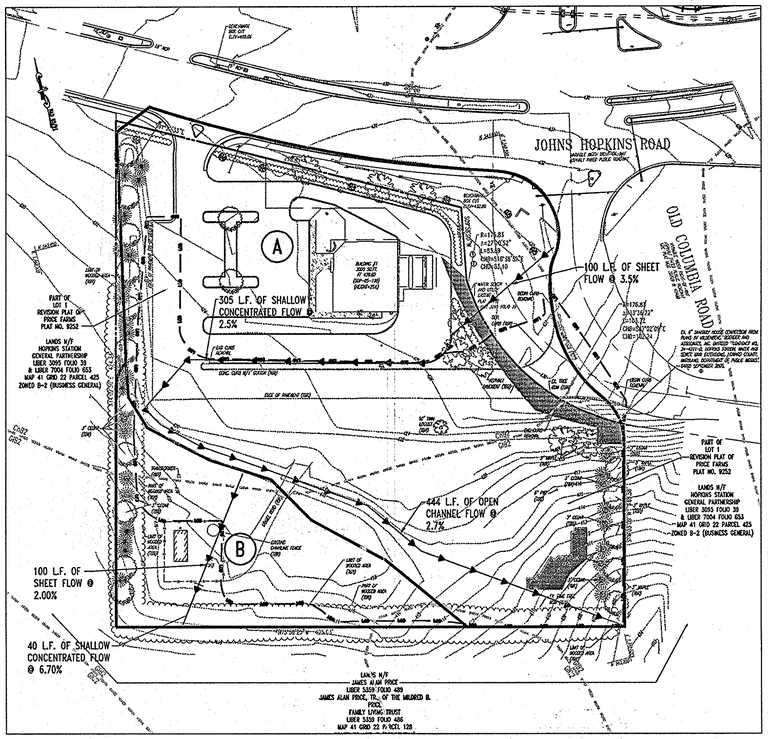
SOIL BORING PLAN

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

MATTHEW T. ALLEN
PROFESSIONAL ENGINEER NO. 28567

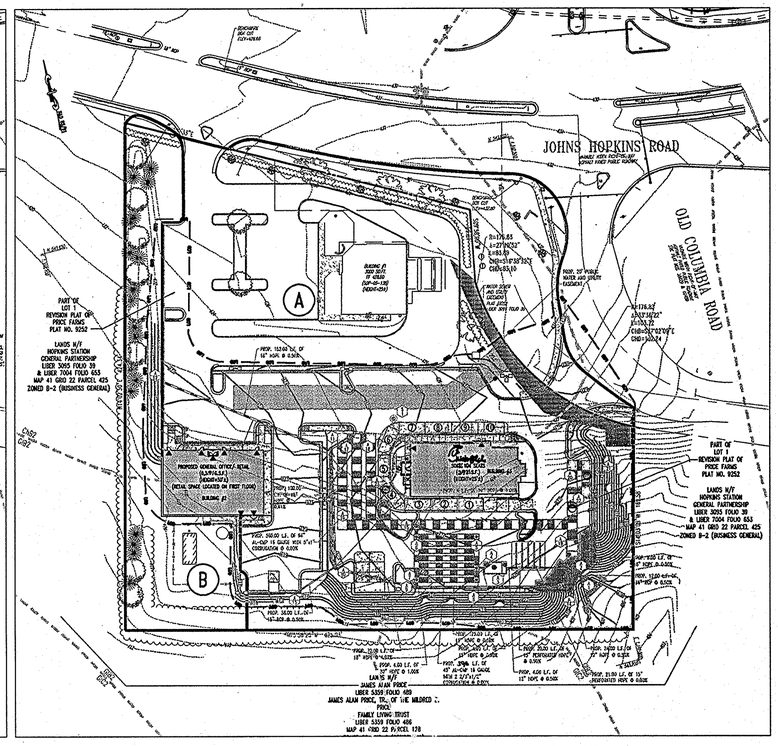
REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	MD056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	27 OF 28

SDP # 07-033



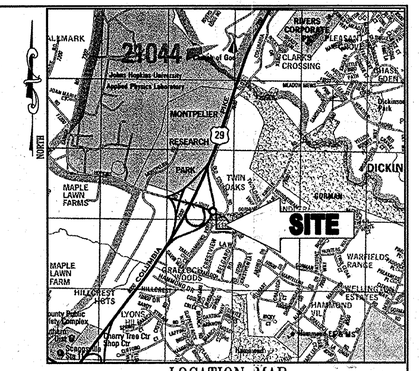
EXISTING STORM WATER MANAGEMENT DRAINAGE AREA

SCALE: 1"=60'



PROPOSED STORM WATER MANAGEMENT DRAINAGE AREA

SCALE: 1"=60'



LOCATION MAP

COPYRIGHT ADC THE MAP PEOPLE
PERMIT USE NO. 20602153-5
SCALE: 1"=2000'

(A) IMPERVIOUS AREA = 39,325 S.F. OR .90 AC.
PERVIOUS AREA = 88,862 S.F. OF 2.04 AC.
TOTAL AREA = 128,187 S.F. OR 2.94 AC.
WEIGHTED CURVE NUMBER = 72
TC PATH = 0.42 HOURS

(B) IMPERVIOUS AREA = 625 S.F. OR 0.01 AC.
PERVIOUS AREA = 27,878 S.F. OF 0.64 AC.
TOTAL AREA = 28,503 S.F. OR 0.65 AC.
WEIGHTED CURVE NUMBER = 62
TC PATH = 0.24 HOURS

(A) IMPERVIOUS AREA = 105,981 S.F. OR 2.433 AC.
PERVIOUS AREA = 28,184 S.F. OF 0.647 AC.
TOTAL AREA = 134,165 S.F. OR 3.08 AC.
WEIGHTED CURVE NUMBER = 86
TC PATH = 0.10 HOURS (MIN.)

(B) IMPERVIOUS AREA = 436 S.F. OR 0.01 AC.
PERVIOUS AREA = 21,780 S.F. OF 0.50 AC.
TOTAL AREA = 22,216 S.F. OR 0.51 AC.
WEIGHTED CURVE NUMBER = .62
TC PATH = 0.10 HOURS (MIN.)

SOIL TYPES

ChB2	CHESTER SILT LOAM, 3-8% SLOPES MODERATELY ERODED
GlC2	GLENELG LOAM, 8-15% SLOPES, MODERATELY ERODED

LEGEND

— — —	SOILS DELINEATION
EkA	SOILS TYPE
———	DRAINAGE DIVIDES
——→	TC PATH
(B)	DRAINAGE AREA LABEL

STATE OF MARYLAND PAUL J. DOLFERRO No. 32025 PROFESSIONAL ENGINEER

FOR REVISION 5 ONLY

STATE OF MARYLAND MATTHEW T. ALLEN No. 29567 PROFESSIONAL ENGINEER

3 FOR REVISION 3 ONLY

2 FOR REVISION 2 ONLY

1 FOR REVISION 1 ONLY

AS-BUILT

6-18-13

4 FOR REVISION 4 ONLY

PROFESSIONAL CERTIFICATION
I, JOSEPH J. DOLFERRO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: 6/30/2014

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
7/17/07
USDA - NATURAL RESOURCES CONSERVATION SERVICE — DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
7/17/07
HOWARD SCD — DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
7/19/07
CHIEF-DEVELOPMENT ENGINEERING DIVISION — DATE
8/3/07
CHIEF-DIVISION & LAND DEVELOPMENT — DATE
8/6/07
DIRECTOR — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
8/7/07
COUNTY HEALTH OFFICER — DATE
HOWARD COUNTY HEALTH DEPARTMENT

NO.:	DATE	REVISION DESCRIPTION
5	4/16/13	REVISE TITLE
4	6/06/13	LENGTH OF STORAGE PIPE REVISION
3	4/17/08	SITE & BLDG REVISED FOR CFA BUILDING
2	3/21/08	IRRIGATION LINE & CFA SERVICE YARD REVISIONS
1	12/06/07	RETAIL BLDG. AREA & ACCESS DRIVE LOCATIONS

OWNER:
HOPKINS STATION GENERAL PARTNERSHIP
C/O BRANTLY DEVELOPMENT GROUP
8835 COLUMBIA
100 PARKWAY, SUITE P
COLUMBIA, MD 21045
PHONE: (410) 730-0810

DEVELOPER:
CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998
C/O SCOTT PATMAN
PHONE: (404) 684-8660

CHICK-FIL-A RESTAURANT & MEDICAL BUILDING
PART OF LOT 1, HOPKINS STATION (FORMER PRICE FARMS, LOT1)
JOHNS HOPKINS ROAD
LAUREL, HOWARD COUNTY, MARYLAND

AREA 3.59 AC. TAX MAP 41 GRID 22 ZONED B-2
PARCEL 425 L. 3,095, F. 39 & L. 7004, F. 653
5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

SWM DRAINAGE AREA MAP

BOHLER ENGINEERING, P.C.
•PROFESSIONAL ENGINEERING SERVICES•
•810 GLENEAGLES COURT, SUITE 300, TOWSON, MD 21286•
•(410) 821-7900 FAX (410) 821-7901 | BOHLERENG.COM•

STATE OF MARYLAND MATTHEW T. ALLEN No. 29567 PROFESSIONAL ENGINEER
7/16/07

REVISED:	12/15/06
DESIGNED BY:	JD
DRAWN BY:	RLB
PROJECT NO.:	M0056502.1
DATE:	9/28/06
SCALE:	AS SHOWN
DRAWING NO.	2B OF 2B

GENERAL NOTE:
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AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR
MD.REG. NO. 21257, EXPIRATION DATE: 06-16-15

STATE OF MARYLAND MICHAEL DAVID ADCOCK No. 21257 PROFESSIONAL LAND SURVEYOR

6/5/13
DATE

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."
7/6/07
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) — DATE
PRINT NAME

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."
07/06/07
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) — DATE
HUGH F. COLE JR.
PRINT NAME

MISS UTILITY

DIG WITH C.A.R.E. MISS UTILITY MARYLAND

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

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

M:\CO\CHICK-FIL-A\M0056502\SITE SET\Rev 3\M0056502.1553.dwg, 7/2/2007 8:59:46 AM, rgodfrey