



HEALTH

Building Permit Application
Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2018 FEB 12 PM 1:18

Date Received:

Permit No.: B18000455

Building Address: 13880 Old Frederick Rd
City: Sykesville State: MD Zip Code: 21784
Suite/Apt. # SDP/WP/BA #:
Census Tract: Subdivision: Five Hills Farm
Section: Area: Lot: 1
Tax Map: Parcel: Grid:
Zoning: Map Coordinates: Lot Size: 3-9Ac

Property Owner's Name: Joe Hill
Address: PO Box 189
City: Woodbine State: MD Zip Code: 21797
Phone: Fax:
Email:

Existing Use: SFD
Proposed Use: SFD W/TANK
Estimated Construction Cost: \$ 4000
Description of Work:
INSTALL A 1000 GAL UNDERGROUND PROPANE TANK

Applicant's Name & Mailing Address, (If other than stated herein)
Applicant's Name: APPLIED & APPROVED PERMITS
Address: PO BOX 310
City: PERRY HALL State: MD Zip Code: 21128
Phone: 443-610-7514 Fax:
Email: MICHELLE@APPLIEDANDAPPROVED.COM

Occupant/Tenant Name: OWNER
Was tenant space previously occupied? Yes No
Contact Name:
Address:
City: State: Zip Code:
Phone: Fax:
Email:

Contractor Company: TEVIS OIL
Contact Person: C NEVIN HAINES
Address: 1618 N MAIN STREET
City: HAMPSTEAD State: MD Zip Code: 21074
License No.: 468
Phone: 410-984-0399 Fax:
Email:

Engineer/Architect Company: CONTRACTOR
Responsible Design Prof.:
Address:
City: State: Zip Code:
Phone: Fax:
Email:

Table with 2 columns: Commercial Building Characteristics and Residential Building Characteristics. Includes fields for Height, No. of stories, Gross area, Area of construction, Use group, Construction type, and Roadside Tree Project Permit.

Table with 2 columns: Utilities and Water Supply. Includes sections for Sewage Disposal, Heating System, and Sprinkler System.

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: MICHELLE CLANCY
MICHELLE@APPLIEDANDAPPROVED.COM
Email Address
PERMITS
Title/Company

Print Name: MICHELLE CLANCY
Date: 2/2/18
RECEIVED FEB 12 2018

LICENSES & PERMITS DIVISION

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
-FOR OFFICE USE ONLY-

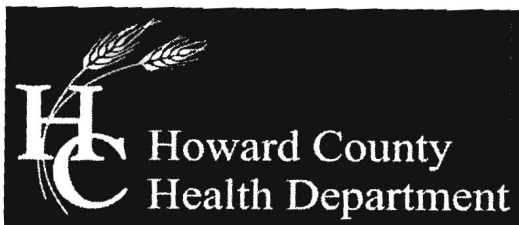
Table with 3 columns: AGENCY, DATE, SIGNATURE OF APPROVAL. Includes rows for State Highways, Building Officials, PSZA (Zoning), PSZA (Engineering), and Health.

Table with 1 column: DPZ SETBACK INFORMATION. Includes fields for Front, Rear, Side, Side St., and various setback requirements.

Table with 2 columns: Fee Name, Amount. Includes Filing Fee, Permit Fee, Tech Fee, Excise Tax, PSFS, Guaranty Fund, Add'l per Fee, Total Fees, Sub-Total Paid, Balance Due, and Check #.

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

224



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: Joe & Jennifer Hill
P.O. Box 189
Woodbine, MD 21797

FROM: Robert Freemon *RIF*
Environmental Health
Well & Septic Program

RE: 13880 Old Frederick Rd.
Cooksville, MD 21784
"Before BP Approval"

DATE: 5/5/2017

I have reviewed the building permit B17001552 for 13880 Old Frederick Rd. and here are my comments.

- ✓ Floor plans on 11"X 17" inch paper and a filled out transmittal sheet must be submitted to the Dept. of Inspections, Licenses and Permits (DILP) for the Health Department.
- ✓ An On-Site Sewage Disposal Plan must be created and approved by the Health Department.
- ✓ The existing septic system on the property must be pumped out and properly abandoned with documentation sent to the Health Department prior to demolition of the existing house.
- ✓ A demo release form must be filled out and submitted to the Health Dept. for approval prior to house demolition.



Bureau of Environmental Health
8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: John Berger
Sent via email to jberger@jmbhomes.com on 6/29/17

FROM: Sarah Collins, L.E.H.S. SEC
Howard County Health Department
Well and Septic Program

DATE: June 29, 2017

RE: 13880 Old Frederick Road
Sykesville, MD 21784
Map 9, Grid 7, Parcel 117
Demolition of existing structure on property

This is to advise that the Howard County Health Department recommends issuance of the demolition permit for the above referenced property.

The property was served by a drilled well. Joseph L. Mayne sealed the well on 1/20/17. The Health Department received record of the well abandonment.

The property currently has a septic tank and dry well. The structure to be demolished will remain during construction of the new house, and the septic components may remain on the property during this time. The septic tank and dry well must be pumped and abandoned prior to approval of the new septic permit. The Health Department must receive documentation of the septic tank and dry well pumping and abandonment.

Current utility records show this parcel has no access to public utilities. Future development may require percolation testing and the development of a Percolation Certification Plan per *Howard County Code section 3.805*.

IF ANY ADDITIONAL WELL OR SEPTIC COMPONENTS ARE FOUND DURING SITE WORK, PLEASE NOTIFY THE HOWARD COUNTY HEALTH DEPARTMENT IMMEDIATELY.

Cc: File

Dr. Peter Beilenson, M.D., M.P.H., Health Officer

DEMOLITION REQUEST FORM

(Please fill in all blanks)

Information of Property to be Demolished:

Joe + Jennifer Hill 13880 OLD FREDERICK ROAD, SYKESVILLE
Current Owner's Name Property Address 21784

FIVE HILL FARM 1
Subdivision (if applicable) Lot #

BERNARD + GLORIA LEVITAS 6009 0117 321448
All Prior Owners' Names (if requested or known) Tax Map Parcel # Tax ID #

Building NEW HOME ON PREMISE
Purpose/Reason for Demolition

NEW HOUSE
Future plans of property after demo (i.e. subdivision, parking lot, re-build new house, etc...)

If a subdivision, SDP# N/A Has the structure(s) been deemed unsafe by DILP YES NO

UTILITY RECORDS:

Property currently connected to public water YES NO

Property currently connected to public sewer YES NO

Does the property currently have any wells and/or septic systems YES NO

→ Explain: Both existing well + SEPTIC to be Abandon. NEW PERM. A SEPTIC RESERVE AREA
HAD been defined EXISTING well HO-94-3389 to REMAIN.

*Note: Any wells and/or septic systems that are to remain may require an approved percolation certification plan under Howard County Code Sec. 3.805

*Note: Any septic systems that are to be abandoned must be done by a septic contractor with documentation of the process.

*Note: All abandoned wells are to be sealed by a well driller licensed by the Maryland State Board of Well Drillers COMAR Sec 26.04.04.11 Abandonment Standards D (3)

COMMENTS: WE WILL APPLY + ABANDON ALL UTILITIES AT TIME OF DEMOLITION. WE
WERE GRANTED THE ABILITY TO RETAIN CURRENT STRUCTURE DURING CONSTRUCTION
BUT MUST REMOVE PRIOR TO UO.

John M. BERGER
Applicant's Name (please print)

240-372-3571
Applicant's Phone #

jberger@JMBHOMES.COM
Applicant's Email

N/A
Applicant's Fax #

John Berger
Applicant's Signature

5/1/17
Date

JMB HOMES

UNIQUE HOME BUILDER

Department of Planning and Zoning
Division of Public Service and Zoning Enforcement
3430 Courthouse Drive, Ellicott City, Maryland 21043


Attention: Geoff Goins – Division Chief (410-313-4350)

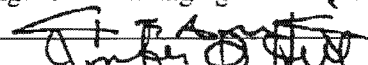
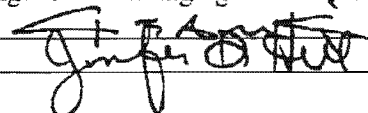
Dated March 31, 2017

Dear Mr. Goins,

I am the Owner of JMB Homes, currently in process of applying for a New Residential Building Permit for the "Hill Residence" located at 13880 Old Frederick Road. This lot (LOT #1 of Five Hill Farms) currently has a structure located on the premises that will be torn down as part of the construction process. The location of the current house does not interfere with new construction activities and has been located on the Grading Plan currently in for Review GP – 17-065. We fully understand that a Demolition Permit to remove this structure WILL be required as a part of this process to complete construction activities. However, at the request of my clients Mr. Joe E. Hill, Jr. and Mrs. Jennifer Hill they would like to delay the demolition of this structure, allowing them to use the garage as a storage facility for equipment and materials only during the process. This structure in its current state is NOT habitable and under NO conditions will this structure be used for anything other than storage during the construction process. At a point during construction activities where it makes sense, but prior to the request for occupancy of the new Home, JMB Homes will follow all required guidelines for the submission and eventual approval of a Demolition Permit and remove this structure from the property.

Thank you for your consideration of this request.

Sincerely,

John M. Berger
JMB Homes
Unique Homebuilder
240-372-3571

Homebuyers Signatures stating agreement of the above content;
Joe E. Hill, Jr.  Date 3/31/2017
Jennifer Hill  Date 3/31/2017

5880 Ten Estates Drive Woodbine, Maryland 21797

Phone 240-372-3571

JMB HOMES

UNIQUE HOME BUILDER

Department of Planning and Zoning
Division of Public Service and Zoning Enforcement
3430 Courthouse Drive, Ellicott City, Maryland 21043

Attention: Geoff Goins – Division Chief (410-313-4350)

Dated March 31, 2017

Dear Mr. Goins,

I am the Owner of JMB Homes, currently in process of applying for a New Residential Building Permit for the "Hill Residence" located at 13880 Old Frederick Road. This lot (LOT #1 of Five Hill Farms) currently has a structure located on the premises that will be torn down as part of the construction process. The location of the current house does not interfere with new construction activities and has been located on the Grading Plan currently in for Review GP – 17-065. We fully understand that a Demolition Permit to remove this structure WILL be required as a part of this process to complete construction activities. However, at the request of my clients Mr. Joe Hill and Mrs. Jennifer Hill they would like to delay the demolition of this structure, allowing them to use the garage as a storage facility for equipment and materials only during the process. This structure in its current state is NOT habitable and under NO conditions will this structure be used for anything other than storage during the construction process. At which point during construction activities it makes sense, but prior to the request for occupancy of the new Home, JMB Homes will follow all required guidelines for the submission and eventual approval of a Demolition Permit and remove this structure from the property.

Thank you for your consideration of this request.

Sincerely,

John M. Berger
JMB Homes
Unique Homebuilder
240-372-3571

Homebuyers Signatures stating agreement of the above content;
Joe Hill _____ Date _____
Jennifer Hill _____ Date _____

Air leakage.
Building thermal envelope. The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods shall conform to those outlined in the criteria column of Table 402.4.1 in the 2015 International Energy Conservation Code - "Air Barrier and Insulation Installation".

The building components to be addressed are as follows: Air barrier and thermal barrier, Ceiling/Glazing, Walls, Windows, Skylights and doors, Rim Joists, Floors (Including above-garage and cantilevered floors, Crawl space walls, Shafts, penetrations, Narrow cavities, Garage separations, Registered lighting, Flaming and wiring, Shower/tub on exterior wall, Electrical phone box on exterior walls, HVAC registers, duct, Fireplace and Concealed sprinklers.

Air sealing and insulation. Building envelope air tightness and insulation installation shall be demonstrated to comply with Table 402.4.1

Window sills.
In dwelling units, where the opening of an operable window is located more than 12" above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24" above the finished floor of the room in which the window is located. Operable sections of windows shall not prevent the unobstructed floor passage of a 4" sphere where such openings are located within 24" of the finished floor.

DESIGNER:

CSE Designs, Inc.

7371 Atlas Walk Way, Gainesville, Virginia 20155
Phone 703-969-2878 Fax 703-754-9317

"The Hill Residence"

(FIVE HILLS FARM LOT #1)

BUILDER:
MB Homes

3568 Dartmouth Court, Suite A, Frederick, Maryland 21705
Phone 240-372-3571 Fax 410-549-1228

ENGINEER:

RKC ENGINEERING

P.O. Box 1015, Gainesville, Virginia 20156
Phone 703-753-9207 Fax 703-754-8326

SPECIFICATIONS

1.0 GENERAL.
The work shall comply with all applicable local and state codes, ordinances, regulations and standards and all other authorities having jurisdiction. The work shall conform with all provisions of the local building official. If the interpretation of any provision of these documents is in conflict with the provisions of the International Building Code, the International Building Code shall prevail.

1.01 CONSTRUCTION METHODS AND TECHNIQUES.
The architect is responsible for construction methods, methods, techniques, procedures, or for safety requirements in connection with the work, and shall not be held responsible for the failure of the owner (client) or his contractors, subcontractors or anyone performing the work, to carry out the work in accordance with the contract documents.

1.02 FIELD CONDITIONS AND DIMENSIONS.
On-site verification of all dimensions and conditions shall be the responsibility of the general contractor and the subcontractor. Issues discovered shall be resolved through written instructions. Architects shall be notified promptly of any discrepancies in information and of any discrepancies between field conditions and information on the drawings prior to construction.

1.03 TYPICAL CONDITIONS.
The general notes and typical conditions apply through the job unless indicated otherwise. Where conditions are not specifically shown or detailed, the contractor and quality of the work shall be the responsibility of the contractor.

1.04 DRAWING COORDINATION.
The contractor shall coordinate and compare all drawings between the different consultants and trades and shall promptly notify the architect of any discrepancies which may be found.

1.05 STRUCTURAL NOTES.
In case of any discrepancies between these notes and notes on the structural drawings the structural notes shall take precedence.

1.06 TYPICAL BRACING.
Using temporary bracing as required to stabilize foundation and basement walls and supporting wall/beam connections in place.

1.07 LEVELS.
All finished material shall be installed in accordance with the following table:

Bedroom areas	30 PPF	60 PPF	40 PPF
Bathrooms	40 PPF	60 PPF	40 PPF
Living areas	40 PPF	60 PPF	40 PPF
Basement	30 PPF	60 PPF	40 PPF
Garage	30 PPF	60 PPF	40 PPF
Basement walls	40 PPF	60 PPF	40 PPF
Cast-in-place concrete	40 PPF	60 PPF	40 PPF
CONCRETE/CLADDING	30 PPF	60 PPF	40 PPF

1.08 FINISHES.
See Table 402.4.1 in the 2015 International Energy Conservation Code for finish requirements. The architect shall be responsible for the design of the finishes. Any additional equipment not shown on structural drawings and having a weight in excess of 200 pounds shall be brought to the attention of the structural engineer prior to installation.

1.09 THE BASIC STRUCTURE IS A STRUCTURE DEPENDENT ON THE DIAGNOSIS AND DESIGN OF THE STRUCTURE. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE. ANY ADDITIONAL EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS AND HAVING A WEIGHT IN EXCESS OF 200 POUNDS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

1.10 PROJECT LITERATURE AND MANUFACTURER'S RECOMMENDATIONS.
Comply with the manufacturer's or fabricator's instructions or recommendations for the preparation of the structure. The manufacturer's literature shall be provided to the contractor. This item may be omitted if the conditions do not warrant it and with the owner's approval.

1.11 TIME RATED ACTIVITIES.
It is the responsibility of the general contractor and the subcontractors to verify and coordinate all stated installation and finish requirements with the manufacturer's literature. The architect shall be notified promptly of any discrepancies in materials prior to construction, and any change materials must have the approval of the architect. All the stated activities are continuous unless otherwise noted. Assembly materials shall take precedence over materials specified in these drawings.

1.12 RACON TESTING.
Contractor to investigate site and conduct necessary tests to ensure that radon gas does not exceed safe limits as mandated by state law. Notify architect and local jurisdictional authority before beginning construction for specific details which may be required. Not applicable if required by state or local jurisdiction.

1.13 Mechanical/Electrical/Plumbing/Structural contractors shall be required to seal all horizontal and vertical penetrations in the exterior wall called by the drawings. All air sealing penetration shall be patched and repaired according to manufacturer's specifications.

1.14 DETAILS OF construction of any retaining wall shall be submitted to the office of the building inspector for approval prior to construction, if applicable.

1.15 Crawl space shall be provided under floor joists not less than 18" in depth and such space shall be vented with equal area of intake and exhaust. Not less than one-third (1/3) of the perimeter of the enclosed building area, if applicable.

1.16 General contractor is responsible to locate and provide necessary structural, mechanical, electrical/plumbing/electrical contractors shall be required to seal all horizontal and vertical penetrations in the exterior wall called by the drawings. All air sealing penetration shall be patched and repaired according to manufacturer's specifications.

1.17 DETAILS OF construction of any retaining wall shall be submitted to the office of the building inspector for approval prior to construction, if applicable.

1.18 EXCAVATION - will be sufficient to provide full design dimensions or to allow for forming as required. No footings shall be placed on frozen earth. No retaining walls shall be placed on frozen earth.

1.19 BACKFILL AND COMPACTION - Only clean, well-sorted, graded earth containing no organic materials, trash, rocks, roots, logs, stumps, concrete, asphalt or other deleterious substances. Backfill shall be compacted to 95% minimum density as determined by the ASTM D698 standard procedure. Do not compact against existing walls and structures. All backfill shall be placed in 6" layers. The bearing surface shall be cleared of all debris or organic materials. Backfill shall be compacted to 95% minimum density as determined by the ASTM D698 standard procedure. Equivalent fluid pressure of soil backfill not to exceed 6 PPF unless otherwise specified.

1.20 FOUNDATIONS - All foundations are to be placed on undisturbed or compacted soil not less than 12" below existing grade or 24" minimum (verify) requirements with local county jurisdiction before adjacent finished exterior grade. Foundation shall be placed on undisturbed or compacted soil not less than 12" below existing grade or 24" minimum (verify) requirements with local county jurisdiction before adjacent finished exterior grade. Soil bearing value assumed to be 2,000 PPF. Final investigation during placement of the foundation. Architect/Engineer to be notified immediately upon receipt of bearing capacity or high water table information.

1.21 INSPECTION - Footing excavation will be inspected by the building official prior to the placing of any concrete. The building official will be given notice for the inspection.

1.22 AS-BUILT INVESTIGATION AND REPORT - All air/water, connection and foundation work shall be done in accordance with the soil investigation report and shall be provided by the owner. Notify architect if on-site soil investigation indicates areas of concern. The bearing value shall be confirmed by a geotechnical engineer. All foundation work shall be done in accordance with the soil investigation report and shall be provided by the owner. Notify architect if on-site soil investigation indicates areas of concern. The bearing value shall be confirmed by a geotechnical engineer. All foundation work shall be done in accordance with the soil investigation report and shall be provided by the owner. Notify architect if on-site soil investigation indicates areas of concern. The bearing value shall be confirmed by a geotechnical engineer.

2.08 DRAINPROOFING FOR CONCRETE AND MASONRY FOUNDATIONS - Exterior foundation walls of masonry construction enclosing basements shall be drainproofed by applying a minimum 3/16" of Portland cement grout to the wall from footing to the top of the wall. The grout shall be covered with a coat of approved waterproofing membrane over the recommended area. From top of footing to finished grade, exterior foundation walls of concrete construction enclosing basements of local building official shall be drainproofed by applying a coat of approved membrane to the wall from the footing to the finished grade at the recommended rate. Foundation walls of no-tensile form located below grade shall be waterproofed with masonry waterproofing membrane for the various methods of finishing. The type of the waterproofing membrane shall be selected and fully applied to the wall. Foundation wall may be drainproofed or waterproofed with materials or methods other than those indicated on drawings.

3.0 CONCRETE
3.01 CONCRETE shall reach minimum compressive strength of f'ci (see table below). All concrete to be placed in accordance with ACI 318/ACI 308 specification. Concrete exposed to weather to be air-entrained.

3.02 REINFORCING CONCRETE TO CONCRETE (1)
Type and location of concrete connection.

3.03 CONCRETE
3.03.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.04 REINFORCING CONCRETE TO CONCRETE (2)
Type and location of concrete connection.

3.05 CONCRETE
3.05.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.06 CONCRETE
3.06.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.07 CONCRETE
3.07.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.08 CONCRETE
3.08.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.09 CONCRETE
3.09.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.10 CONCRETE
3.10.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.11 CONCRETE
3.11.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.12 CONCRETE
3.12.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.13 CONCRETE
3.13.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.14 CONCRETE
3.14.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.15 CONCRETE
3.15.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.16 CONCRETE
3.16.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.17 CONCRETE
3.17.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.18 CONCRETE
3.18.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.19 CONCRETE
3.19.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.20 CONCRETE
3.20.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.21 CONCRETE
3.21.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.22 CONCRETE
3.22.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.23 CONCRETE
3.23.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.24 CONCRETE
3.24.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.25 CONCRETE
3.25.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.26 CONCRETE
3.26.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.27 CONCRETE
3.27.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.28 CONCRETE
3.28.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.29 CONCRETE
3.29.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.30 CONCRETE
3.30.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.31 CONCRETE
3.31.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.32 CONCRETE
3.32.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.33 CONCRETE
3.33.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.34 CONCRETE
3.34.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.35 CONCRETE
3.35.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.36 CONCRETE
3.36.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.37 CONCRETE
3.37.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.38 CONCRETE
3.38.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.39 CONCRETE
3.39.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.40 CONCRETE
3.40.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.41 CONCRETE
3.41.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.42 CONCRETE
3.42.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.43 CONCRETE
3.43.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.44 CONCRETE
3.44.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.45 CONCRETE
3.45.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.46 CONCRETE
3.46.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.47 CONCRETE
3.47.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.48 CONCRETE
3.48.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.49 CONCRETE
3.49.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.50 CONCRETE
3.50.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.51 CONCRETE
3.51.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.52 CONCRETE
3.52.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.53 CONCRETE
3.53.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.54 CONCRETE
3.54.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.55 CONCRETE
3.55.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.56 CONCRETE
3.56.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.57 CONCRETE
3.57.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.58 CONCRETE
3.58.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.59 CONCRETE
3.59.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.60 CONCRETE
3.60.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.61 CONCRETE
3.61.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.62 CONCRETE
3.62.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.63 CONCRETE
3.63.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.64 CONCRETE
3.64.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.65 CONCRETE
3.65.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.66 CONCRETE
3.66.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.67 CONCRETE
3.67.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.68 CONCRETE
3.68.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.69 CONCRETE
3.69.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.70 CONCRETE
3.70.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.71 CONCRETE
3.71.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.72 CONCRETE
3.72.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.73 CONCRETE
3.73.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.74 CONCRETE
3.74.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.75 CONCRETE
3.75.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.76 CONCRETE
3.76.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.77 CONCRETE
3.77.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.78 CONCRETE
3.78.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.79 CONCRETE
3.79.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.80 CONCRETE
3.80.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.81 CONCRETE
3.81.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.82 CONCRETE
3.82.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.83 CONCRETE
3.83.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.84 CONCRETE
3.84.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.85 CONCRETE
3.85.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.86 CONCRETE
3.86.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.87 CONCRETE
3.87.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.88 CONCRETE
3.88.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.89 CONCRETE
3.89.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.90 CONCRETE
3.90.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.91 CONCRETE
3.91.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.92 CONCRETE
3.92.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.93 CONCRETE
3.93.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.94 CONCRETE
3.94.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.95 CONCRETE
3.95.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.96 CONCRETE
3.96.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.97 CONCRETE
3.97.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.98 CONCRETE
3.98.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

3.99 CONCRETE
3.99.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.00 CONCRETE
4.00.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.01 CONCRETE
4.01.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.02 CONCRETE
4.02.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.03 CONCRETE
4.03.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.04 CONCRETE
4.04.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.05 CONCRETE
4.05.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.06 CONCRETE
4.06.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.07 CONCRETE
4.07.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.08 CONCRETE
4.08.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.09 CONCRETE
4.09.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.10 CONCRETE
4.10.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.11 CONCRETE
4.11.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.12 CONCRETE
4.12.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.13 CONCRETE
4.13.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.14 CONCRETE
4.14.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.15 CONCRETE
4.15.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.16 CONCRETE
4.16.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.17 CONCRETE
4.17.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.18 CONCRETE
4.18.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.19 CONCRETE
4.19.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.20 CONCRETE
4.20.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.21 CONCRETE
4.21.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.22 CONCRETE
4.22.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.23 CONCRETE
4.23.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.24 CONCRETE
4.24.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.25 CONCRETE
4.25.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.26 CONCRETE
4.26.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.27 CONCRETE
4.27.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.28 CONCRETE
4.28.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.29 CONCRETE
4.29.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.30 CONCRETE
4.30.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.31 CONCRETE
4.31.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.32 CONCRETE
4.32.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.33 CONCRETE
4.33.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.34 CONCRETE
4.34.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.35 CONCRETE
4.35.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.36 CONCRETE
4.36.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.37 CONCRETE
4.37.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.38 CONCRETE
4.38.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.39 CONCRETE
4.39.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.40 CONCRETE
4.40.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.41 CONCRETE
4.41.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.42 CONCRETE
4.42.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.43 CONCRETE
4.43.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.44 CONCRETE
4.44.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.45 CONCRETE
4.45.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.46 CONCRETE
4.46.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.47 CONCRETE
4.47.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.48 CONCRETE
4.48.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.49 CONCRETE
4.49.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.50 CONCRETE
4.50.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.51 CONCRETE
4.51.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.52 CONCRETE
4.52.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.53 CONCRETE
4.53.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.54 CONCRETE
4.54.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.55 CONCRETE
4.55.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.56 CONCRETE
4.56.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.57 CONCRETE
4.57.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.58 CONCRETE
4.58.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.59 CONCRETE
4.59.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.60 CONCRETE
4.60.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.61 CONCRETE
4.61.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.62 CONCRETE
4.62.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.63 CONCRETE
4.63.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.64 CONCRETE
4.64.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.65 CONCRETE
4.65.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.66 CONCRETE
4.66.1 Minimum specified Compressive Strength (f'ci) See table below (ACI 318/ACI 308 specification).

4.67 CONCRE