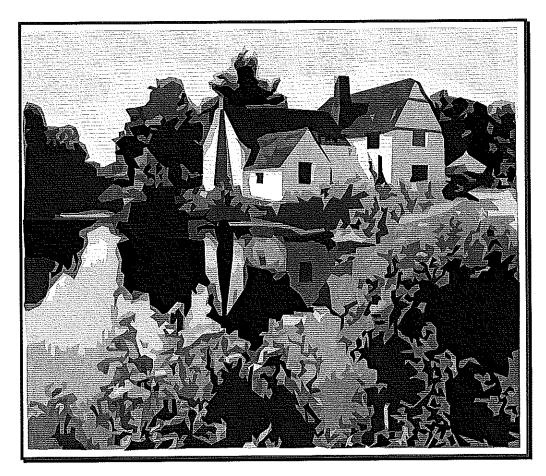
Residential Building/Zoning Application Package



Borough of Fox Chapel



Building Code Official Robert John Smith (412) 963-1100 Ext. 113 rjsmith@fox-chapel.pa.us

BOROUGH OF FOX CHAPEL

PREFACE

This Residential Building/Zoning Application Package was prepared to help you meet the requirements of the Borough's Building Code and Zoning Ordinance. Building/zoning permits are required for most types of construction and earth moving activities. Some of the specific activities which require a building/zoning permit include: new structures, additions, alterations, demolitions, fences, decks, sheds, swimming pools, sports courts, and satellite dish antennae over 36 inches in diameter. Please contact the Building Code Official prior to undertaking any of these activities or any similar activity to obtain the requirements for your specific project.

With the adoption of Borough of Fox Chapel Ordinance No. 639, effective July 1, 2004, the Borough began administering and enforcing the Commonwealth of Pennsylvania Construction Code Act, Act 45 of 1999. Ordinance No. 639 adopted the Pennsylvania Uniform Construction Code (UCC), revised and restated certain sections of Chapter 403 Administration of the UCC and retained all building code requirements which were in effect on or before July 1, 1999 which equal or exceed the requirements of the UCC.

Enclosed you will find the information you need to successfully complete the building/zoning permit application and the construction inspection process. Please keep in mind that by thoroughly completing the application forms and submitting the necessary information you will enable this office to process your application within a shorter period of time and you will be able to proceed with your construction project sooner.

If there are any questions, or additional information is required, please do not hesitate to contact Bob Smith, Building Code Official at (412) 963-1100 Ext. 113 or rjsmith@fox-chapel.pa.us.

CONTENTS

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1

BOROUGH OF FOX CHAPEL

PROCEDURES AND REQUIREMENTS FOR OBTAINING A BUILDING PERMIT

1. Applicant must submit a Notice of Proposed Environmental Disturbance Application Package (Application) to the Environmental Advisory Council (EAC) for review. The review process consists of obtaining a recommendation from the EAC and approval or denial from Borough Council. The EAC meets the second Monday of each month and Borough Council meets the third Monday of each month. In order to be placed on the agenda the Application must be received at least twenty-eight (28) days prior to the EAC meeting date. All sections of the Application must be completed and all information requested by the Application must be submitted in the required format along with the Application Fee. The EAC will review the Application at its meeting and recommend that Borough Council approve or deny the Application. Borough Council then reviews the Application and either approves or denies the Application. The Applicant will be notified by the Borough of Council's decision. If approval is granted, the applicant should proceed with Step No. 2. If Council denies the Application, or approves it with conditions, an appeal may be taken to the Zoning Hearing Board within thirty (30) days.

NOTE: If no environmental disturbance as defined by the Fox Chapel Natural Resources Assessment and Protection Ordinance of 2011 (NRO) is to be undertaken the submittal of the Notice of Proposed Environmental Disturbance Application may not be required. Please check with the Borough's Building Code Official early in the planning process. If it is determined that the Application is not necessary the application for building permit must include a current site plan showing the dimensions of the lot, boundary lines, easements, right-of-ways, building setback lines, all utilities including the sanitary sewer location and the size and location of the new construction and existing structures on the site and the structure's distance from lot lines. The Building Code Official may waive or modify the site plan requirement when the permit application is for an alteration or a repair or if the waiver is warranted for other reasons.

- 2. Applicant must complete and return the following Borough application forms and other information, as applicable:
 - Approved notice of Proposed Environmental Disturbance Application or site plan complying with Step No. 1
 - Application for Building/Zoning Permit
 - Zoning Certificate of Compliance Application
 - False Fire Alarm Notice
 - Permit Agreement
 - Building Permit Inspection Procedures Statement
 - Workers' Compensation Insurance Addendum
 - Municipal Contractor Registration Form
 - Minimum Requirements for Building Permit Construction Drawings for Single-Family Dwelling Projects & Checklist

- Minimum Requirements for Building Permit Construction Drawings for Wood Deck Projects & Checklist
- 3. The Building Code Official will check the Application for completeness and shall grant or deny the permit application, in whole or in part, within 15 business days of the filing of a complete application. The Building Code Official and the applicant may agree in writing to extend the deadline by a specific number of days. If the permit application is denied the applicant will be notified in writing of the reasons for denial. If the permit application is approved, the applicant will be notified and the permit will be issued upon receipt of all required fees, e.g., building permit fee, driveway permit fee, sanitary sewer tap-in fee, actual cost incurred by the Borough, etc.
- 4. Once the building permit is issued the permit holder should follow the required procedures contained in the Borough of Fox Chapel Building Permit Inspection Procedures Statement.
- 5. The Building Code Official will issue a Certificate of Occupancy within 5 business days after the approved occupancy/final inspection has been performed. No building, or portion of a building, may be used or occupied without a Certificate of Occupancy issued by the Building Code Official.

Borough of Fox Chapel Allegheny County, Pennsylvania Application for Building/Zoning Permit

(Please print or type all information)

LOCATION OF PROPOS	SED WORK OR IMPROVEMENT		manufacture control
Street Address:			
Block & Lot Number: _			
Subdivision Name:		Lot No)
Owner:	Phone:	FAX:	
Mailing Address: ———		E-Mai	1:
Principal Contractor:	Phone:	FAX:	
Mailing Address:	Phone:	E-Mai	1:
Architect:	Phone:	FAX	
Mailing Address:	Company Comp	E-Mai	1:
TYPE OF WORK OR IM	IPROVEMENT (Check all that apply)		
Change of Use D Plum	tion □ Alteration □ Repair □ Demol nbing □ Mechanical □ Electrical □	Other	l l
Describe the proposed wor	rk:		
Is a variance, special excells highway occupancy per	od hazard area be developed? (<i>Check C</i> ption or conditional use required? (Chemit required? (<i>Check One</i>) OJECT COST OF CONSTRUCTION (R	ck One) □ Yes □ No No)
documents and PA Act 45 (Unifugel. The property owner assume to of a permit and approval of control of the Borough of Fox undersigned acknowledges that PA Act 45 (Uniform Construction if ites he/she understands all the approval of the Building Code Official's authors the provisions of the code(s) appears to the provisions of the code(s) appears to the provisions of the code(s).	nation on this application is correct and the form Construction Code) and any additional as the responsibility of locating any propert astruction documents shall not be construed Chapel or any other governing body. The Borough's Building and Plumbing Orden Code) and agrees that the construction policable codes, ordinances and regulations oyed in connection with the proposed work orized representative shall have the authorical policable to such permit. The undersigned that any false statements made herein are sub-	approved building code requirements of Application for a permit is her if you can be a considered as authority to violate, cancel and the constant of the requirements of Application for a permit is her if you can be a covered by so werify that the statements made	irements adopted by the Borough of Forts, rights-of-way, flood areas, etc. Issal or set aside any provisions of the contents more stringent than those contains the Borough Ordinances. The applicated made by the owner of the building of Fox Chapel Building Code Officuch permit at any reasonable hour to be in this application and attachments.
Printed Name of Owner	Signature of Owner	Date	APPLICATION DATE
			FOR OFFICIAL USE ONLY
Printed Name of Owner	Signature of Owner	Date	PERMIT NO.
Printed Name of Contractor	Signature of Contractor	Date	DATE ISSUED

Building Permit No.	
BOROUGH OF FOX CHAPEL + NOTICE +	
TO: All Contractors	
RE: False Fire Alarms	
Most homes in Fox Chapel Borough have fire and smoke detectors that are tied into a central dispatching center. Many of these detectors are extremely sensitive and can be set off by sawdust, sanding fumes and other by-products of home construction and remodeling. These false alarms result in firemen being exposed unnecessarily to the risks that occur when they respond to what they believe to be a real fire. Ordinance No. 620 holds those individuals who cause false alarms responsible for their actions and subjects them to a fine as high as \$1,000 for each offense. You are directed, therefore, to take whatever steps are necessary to prevent false fire alarms as a result of the activities of your employees or any subcontractors who may be working on the site. These steps may include, but not be limited to, covering the smoke detectors and/or notifying the alarm company to disregard alarm calls during the hours that the work will be in progress. It is vitally important, however, that the alarm system be made fully operational at the conclusion of each day's activities.	
The undersigned hereby acknowledges that he/she has read this Notice and fully understands their responsibility to take appropriate steps to prevent false alarms resulting from their construction activities and those of any subcontractor working on the site and that failure to do so could result in a fine of up to One Thousand Dollars (\$1,000.00) for each false alarm.	
BOROUGH USE ONLY Name of Contractor (Printed)	_
Signature	_
Date	_

BOROUGH OF FOX CHAPEL PERMIT AGREEMENT

In consideration of the issuance by the Borough of Fox Chapel (the "Borough") of a building or grading permit to the undersigned property owner(s) (the "Applicant"), the Applicant acknowledges that, in reviewing plans and specifications, in issuing permits and in inspecting work of the Applicant, employees, consultants, elected or appointed officials of the Borough are only performing their duties to require compliance with the minimum requirements of the applicable ordinances of the Borough pursuant to the police power of the Borough and are not warranting to the Applicant or to any third party the quality of adequacy of the design, engineering or work of the Applicant or their agents or contractors.

Applicant further acknowledges that it will not be possible for the Borough to review every aspect of Applicant's design and engineering or to inspect every aspect of Applicant's work. Accordingly, neither the Borough nor any of its elected or appointed officials, consultants or employees shall have any liability to the Applicant for defects or shortcomings in such design, engineering or work, even if it is alleged that such defects or shortcomings should have been discovered during the Borough's review or inspection. Furthermore, the Applicant agrees to defend, hold harmless and indemnify the Borough, its elected and appointed officials, consultants and employees from and against any and all claims, demands, actions and causes of action of any one or more third parties arising out of or relating to the Borough's review or inspection of the Applicant's design, engineering or work or issuance of a permit or permits, or arising out of or relating to the design, engineering or work done by Applicant pursuant to such permit or permits. All references in this Agreement to Applicant's design, engineering or work shall include such design, engineering and work which is performed by the Applicant or by the Applicant's employees, agents, independent contractors, subcontractors or any other persons or entities performing work pursuant to the issuance of the Pyrotechnics display permit by the Borough.

Owner's Signature	 Date
Printed Name	
Building Address	
Permit No.	
Date Permit Issued	

BOROUGH OF FOX CHAPEL BUILDING PERMIT INSPECTION PROCEDURES STATEMENT

I hereby acknowledge that all applicable inspection procedures specified below must be adhered to:

- The building permit must be displayed and the approved construction documents must be kept at the work site and be open to inspection by the Building Code Official until the completion of the construction.
- All **building** inspections will be conducted during the hours of 9:30 A.M. and 4:00 P.M. All inspections will be **BY APPOINTMENT ONLY**. The appointment for the occupancy inspection must be made by 3:00 P.M. at least 7 days in advance of the desired inspection date. All other inspection appointments must be made by 3:00 P.M. at least 2 days in advance of the desired inspection date. There will be a \$35.00 fee for any re-inspection.
- All building sewer inspections will be conducted during the hours of 7:00 A.M. and 2:30 P.M. All inspections will be **BY APPOINTMENT ONLY**. All inspection appointments must be made no later than between the hours of 7:00 A.M. and 9:00 A.M. of the desired inspection date. There will be a \$55.00 fee for any re-inspections. **Note: For all new construction the Sanitary Sewer Department must perform a re-inspection of the sanitary sewer system prior to occupancy.** The appointment for the *pre*-occupancy inspection must be made by 2:30 P.M. at least 7 days in advance of the desired inspection date.
- <u>Inspection #1</u> PRE-CONSTRUCTION: is to be performed prior to starting any construction. An inspection must be scheduled to verify that all environmental protection controls (straw bales, silt fences, protective tree fencing at drip lines, etc.) are in place.
- <u>Inspection #2</u> FOOTINGS, SUPPORT PADS, ETC.: is to be performed after reinforcing rods are in place and before placing concrete. (All reinforcing rods must be placed on chairs and tied).
- <u>Inspection #3</u> FOUNDATION AND ENVIRONMENTAL: is to be performed after foundation has been erected and before framing work begins or backfill is installed. Anchor bolts, foundation dampproofing/waterproofing and foundation drains should be in place. (At this time, a certified "as-built" plan must be provided for all new construction anywhere in the Borough and for construction of any type of PRD and Density Developments.) The environmental controls should also be in good working condition.
- <u>Inspection #4</u> UNDERGROUND PIPING: is to be performed after building sewers (sanitary sewer laterals), rain conductors, foundation drains, and stormwater detention facilities are in place and prior to covering. The requirements for building sewers ("laterals") in Fox Chapel Borough are different from those of the Allegheny County Health Department (ACHD). Plumbers are required to contact the Borough's Sanitary Sewer Department before starting any building sewer work in the Borough. All building sewers must be inspected and approved by <u>both</u> the ACHD and the Borough.

- <u>Inspection #5</u> FRAMING/MECHANICAL: is to be performed after all electrical, plumbing, HVAC and mechanical system rough-in work has been completed and before any insulation or wall/ceiling interior coverings have been installed. Copies of the rough plumbing inspection (ACHD) and rough electrical inspection (third-party agency) reports must be provided to the Borough.
- <u>Inspection #6</u> ENERGY: is to be performed after all insulation, vapor retarders, caulking, and sealants have been installed and before any wall/ceiling interior coverings have been installed.
- <u>Inspection #7</u> WALLBOARD: is to be performed after all wall/ceiling gypsum board has been installed and before any taping or finishing.
- <u>Inspection #8</u> OCCUPANCY/FINAL: is to be performed after all items pertaining to the issued building permit have been completed and prior to occupancy of any portion of the structure. **Note:** For all new construction the Sanitary Sewer Department must perform a reinspection of the sanitary sewer system prior to occupancy. Copies of the final plumbing inspection (ACHD) and the final electrical inspection (third-party agency) reports must be provided to the Borough.

NO WORK MAY BE CONCEALED FROM VIEW, UNTIL THE BOROUGH HAS APPROVED IT.

I fully understand that it is my responsibility to call for inspections and that, if inspections are not made according to procedure, I may be in violation of the Pennsylvania Uniform Construction Code (UCC) and Borough of Fox Chapel Ordinance No. 639 and may be subject to prosecution. I also understand that no one may occupy this structure (or portion thereof) until a UCC Certificate of Occupancy is obtained.

Property Owners (printed or typed)			
	Signature	Date:	
Contractor (printed or typed)			
(printed of typed)	Signature	Date:	
Project Street Address:			

For Completion By Municipal Official Code Enforcement Officer:

Date Issued	_/_	_/
Building Permit	No.	

BOROUGH OF FOX CHAPEL Workers' Compensation Insurance Addendum to Building Permit

ALL APPLICANTS MUST COMPLETE THE FOLLOWING AS REQUIRED BY THE PENNSYLVANIA WORKMAN'S COMPENSATION ACT, SECTION 302:

[,	Application for Property Owner:		
	Street Address:		
(Offic		(Home)
	Lot & Block No.:		
II.	The contractor/applicant for the hereby submits (check one):	e building permit, in complia	ance with Act 44 of 1993,
	☐ Certificate of Insurance with holder (please attach)	h Borough of Fox Chapel n	amed as policy certificate
	☐ Certificate of Self-Insurance	(please attach)	
	☐ Claim of Exemption		
III.	If a Certificate of Insurance or following:		
	Name of Insurer:(or Self Insurer) Address:		
	City:	State:	Zip:
	Telephone No.:		
	Policy No.:	Coverage Period	Ends:
	Name of Contractor/Policyholde	er;	
	Address:		
	City:	State:	Zip:
	Telephone No.:		
	Contractor/Policyholder's Feder	al/State Employer Identification	on Number (EIN):

Workers' Compensation Insurance Addendum to Building Permit

- 1. This policy provides coverage for the requirements of the Workers' Compensation Act, the Occupational Disease Act, and where applicable, the Federal Longshore and Harbor Workers' Compensation Act.
- 2. The insurer has been notified that the municipality issuing the building permit is to be named as a policy certificate holder.
- 3. Any subcontractors used on this project will be required to carry their own Workers' Compensation coverage.
- 4. The contractor/policyholder will notify the municipality of any change in status, cancellation of expiration of Workers' Compensation coverage.
- 5. Violation of the Workers' Compensation Act or the terms of this permit will subject the contractor/policyholder to a Stop-Work Order and other fines and penalties as provided by law.
- 6. The contractor/applicant is not permitted to employ any individual to perform work on this project pursuant to the permit in violation of the Act.
- IV. If an exemption is being claimed, please complete this section and if applicable, complete and sign the required Workers' Compensation Insurance Affidavit in the presence of a notary public:

Ba	sis for exemption (check one):
	Applicant is an individual who owns the property. a) Workers' Compensation Insurance Affidavit attached
	Contractor/Applicant is a sole proprietorship without employees. a) Workers' Compensation Insurance Affidavit attached
	Contractor/Applicant is a corporation, and the only employees working on the project have and are qualified as "Executive Employees" under Section 104 of the Workers' Compensation Act. Please explain:
	All of the contractor/applicant's employees on the project are exempt on religious grounds under Section 304.2 of the Workers' Compensation Act. Please explain:
	Other. Please explain:

BOROUGH OF FOX CHAPEL Workers' Compensation Insurance Affidavit

The undersigned affirms that he/she is not reunder the provisions of Pennsylvania's Worreasons as indicated:	equired to provide v rkers' Compensation	workers' compensation insurance on Law for one of the following
Property owner performing own vertorm any work pursuant to be workers' compensation insural liability for contractor complian	building permit, co nce to the munic	ontractor must provide proof of ipality. Homeowner assumes
Contractor has no employees. Co individual to perform work pu provides proof of insurance to the	rsuant to this bui	ed by law from employing any llding permit unless contractor
Religious exemption under the contractor are exempt from wor religious exemption letters for all	rkers' compensation	sation Law. All employees of on insurance. (Attach copies of
	Signature	of Applicant
I understand that failure to comply will result be lifted until proper coverage is obtained, at 1915 (P.L. 736), known as The Pennsylva amended June 21, 1939 and amended December 1939.	s provided by Secti ania Workmen's C	on 302(e)(4) of the Act of June 2 compensation Act, reenacted and
Subscribed and sworn to before me this	day of	, 20
	(Signatu	re of Notary Public)
(Seal)		

MY SIGNATURE ON BEHALF OF/OR AS THE CONTRACTOR/APPLICANT FOR THIS BUILDING PERMIT CONSTITUTES MY VERIFICATION THAT THE STATEMENTS CONTAINED HERE ARE TRUE, AND THAT I AM SUBJECT TO THE PENALTY OF 18 PA. C.S.A. §4904 RELATING TO UNSWORN FALSIFICATIONS TO AUTHORITIES.

Signature	
Name (Please Print)	
Title	
Name of Company	

NOTE: Applicant's copy to be attached to permit and posted. Municipality's copy to be filed with its permit copy.

BOROUGH OF FOX CHAPEL CONTRACTOR REGISTRATION FORM

This form must be completed by any contractor who engages in any act regulated by the Commonwealth of Pennsylvania Uniform Construction Code (UCC) and/or performing home repairs valued at \$400.00 or more, or by any contractor making application for a building permit.

Name		
Home Address		
-		
Telephone ()	FAX <u>(</u>)	E-mail
Driver's License Identificat	ion	
Company		
Address (if different)		
<u>-</u>		
Telephone ()	FAX <u>(</u>)	E-mail
Tax Number:	Federal	State Allegheny County
Does this company do busin	ness under any other name?	If so please list:
This company is a (check o ☐ Sole Proprietorship ☐ Partnership ☐ Corporation ☐ Limited Liability Compa ☐ Limited Partnership ☐ Joint Venture ☐ Other		
List name(s) of other partne	ers/shareholders/officers of th	the corporation with at least 10% interest:
□ Name:		Title:
Does the named registrant	or company have insurance/V	Workman's Compensation coverage?
□ Yes,		General Liability
□ No		Automobile Liability ☐ Yes ☐ No

Name of Insurer	
Address	
Telephone _(
Policy Number *Please att	ach Certificate of Insurance with Borough of Fox Chapel as certificate holder.
Number of employee ☐ 1-4 ☐ 5-10 ☐ 11-20 ☐ 21 +	es:
 □ New Home Const □ HVAC □ Plumbing □ Electrical □ Masonry/Concret □ Painting/Plaster □ Roofing □ Deck/Patio □ Waterproofing □ General 	e · · · · · · · · · · · · · · · · · · ·
	r municipalities of principal operation (defined as 6 or more contracts within the
Are you registered v	vith any other municipalities? If so, please list:
Has any named reg transaction, fraud, th	gistrant ever been convicted of a criminal offense related to a home improvement aeft, a crime of deception or a crime involving fraudulent business practices?
□ Yes □ No	
Has any named regi the registrant held a	istrant ever had a civil judgment entered against the registrant or a business in which in interest that was related to a home improvement transaction?
☐ Yes ☐ No	
Has any named reg program through w within the last ten ye	istrant been suspended or debarred from participating in any Federal, State or local hich funding or other assistance is provided to consumers for home improvements ears?
□ Yes □ No	

☐ Yes. If yes, identify municipality involved:
Has any named registrant ever been refused an occupancy permit after completion of a home improvement contract? ☐ Yes. If yes, identify municipality involved: ☐ No
Has any named registrant ever been issued a stop work order? ☐ Yes. If yes, identify municipality involved: ☐ No
How many years has this company been in business?
How many contracts have been successfully completed in the last two (2) years?
At which financial institution does the company maintain a checking account?
Has the company ever been in bankruptcy? ☐ Yes ☐ No If Yes, in what year?
Please list three customer references:
Name
Address
Telephone ()
Name
Address
Telephone ()
Name
Address
Telephone ()
MY SIGNATURE CONSTITUTES MY VERIFICATION THAT THE STATEMENTS CONTAINED HERE ARE TRUE, AND THAT I AM SUBJECT TO THE PENALTY OF 18 PA. C.S.A. §4904 RELATING TO UNSWORN FALSIFICATIONS TO AUTHORITIES.
Signature Date:
Name (Please Print)
Title
=

BOROUGH OF FOX CHAPEL

BUILDING CODE REQUIREMENTS WHICH EQUAL OR EXCEED THE REQUIREMENTS OF THE COMMONWEALTH OF PENNSYLVANIA UNIFORM CONSTRUCTION CODE.

- Sanitary building sewer (sanitary sewer lateral) must be installed in accordance with the Borough of Fox Chapel Rules & Regulations Governing House or Building Sanitary Sewer Connections and must be inspected by both the Allegheny County Health Department and the Borough.
- Radon Control is required for additions and new construction. A sub-slab depressurization (passive) system in accordance with Appendix F of the 2009 International Residential Code is required.
- Footings; All concrete footings shall be reinforced concrete and the edge thickness shall not be less than 8 inches. Reinforcement shall not be less than two 5/8-inch diameter bars or three ½-inch diameter bars.

BOROUGH OF FOX CHAPEL

MINIMUM REQUIREMENTS FOR BUILDING PERMIT CONSTRUCTION DRAWINGS FOR <u>SINGLE FAMILY DWELLING PROJECTS</u> & CHECKLIST

GENERAL REQUIREMENTS

The application for building permit must be accompanied by the completed checklist and two sets of construction drawings. The construction drawings for new construction, alteration, repairs, expansion, addition or modification to buildings or structures shall be prepared by an architect or structural engineer who is registered in the Commonwealth of Pennsylvania. The construction drawings shall include the name and address of the registered design professional and shall be signed, sealed and dated by the registered design professional. (The Building Code Official may waive the requirement for a registered design professional if it is determined that the proposed work is minor in nature.) The construction drawings shall be drawn to scale and shall be of sufficient clarity to indicate the nature and extent of the work proposed and shall show in detail that the work will conform with the provisions of the Commonwealth of Pennsylvania Uniform Construction Code and Borough of Fox Chapel Ordinance No. 639.

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

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					10							V
25 PSF	90	C	Severe	36"	Heavy	Mod	0° F	Yes	Maps	5A	Central	Yes

This design criteria must be noted on the first page of the construction drawings and all buildings and structures must be designed in accordance with this criteria.

STRUCTURAL DESIGN CRITERIA

The design criteria, both **dead load** and **live load**, must be noted on the first page of the construction drawings for the following structural members:

- Decks (floor joist)
- Exterior balconies (floor joist)
- Sleeping rooms and attics accessed by a fixed stairway (floor joist)
- Attics with storage (ceiling joist)
- Attics without storage (ceiling joist)
- Rooms other than sleeping rooms (floor joist)
- Roof rafters (snow load or live load, whichever is greater)

FRAMING LUMBER

The species, grade, size, spacing and span for all framing lumber (floor joist, ceiling joist, roof rafters, headers, girders, walls, etc.) must be marked on the drawings. The minimum bearing requirements for all framing lumber bearing on wood, metal, masonry or concrete must be marked on drawings.

MANUFACTURED WOOD PRODUCTS

The manufacturer of the prefabricated wood components (roof trusses, floor trusses, glue-laminated beams, composite structural panels, etc.) must submit detailed construction drawings that have been prepared, signed and sealed by a professional structural engineer who is registered in the Commonwealth of Pennsylvania.

PLUMBING CONSTRUCTION DRAWING

The Allegheny County Health Department (ACHD) will do the plumbing, **including residential fire sprinkler systems**, plan review and approval/denial for the Borough. They will also conduct the required inspections in conjunction with the Borough of Fox Chapel. Drawings should be submitted directly to ACHD in the format required by them. NOTICE: The requirements for building sewers ("laterals") in Fox Chapel Borough are different from those of Allegheny County Health Department. PLUMBERS ARE REQUIRED TO CONTACT THE BOROUGH'S SANITARY SEWER SUPERINTENDENT AT 412/963-1100 EXT. 126 BEFORE STARTING ANY BUILDING SEWER WORK IN THE BOROUGH. All building sewers must be inspected and approved by <u>both</u> the ACHD and the Borough.

ELECTRICAL CONSTRUCTION DRAWINGS

The Borough requires the use of a third party agency that is certified by the Commonwealth of Pennsylvania Department of Labor & Industry. The third party agency will do the electrical plan review approval/denial and the required inspections. Drawings should be submitted directly to the third party agency in the format required by them.

CONSTRUCTION DRAWING REVIEW CHECKLIST

The checklist on the following pages must be completed and submitted with the construction drawings. All information must be filled in, checked (\checkmark) to indicate that it is included or marked not applicable (N/A). An explanation for any information not marked as included or marked N/A must be given in Section XII — Comments at the end of the checklist. All explanations in the comment section must be correlated to its section number (i.e., Section II, 5. would refer to footing depth below grade). The drawing page number on which the information is noted must also be identified. This checklist is designed to help you develop an acceptable set of drawings and is not meant to be all inclusive. The building code official may require additional information.

Owners l	Name:	Telephone:
Project A	Address:	
Agent Na	ame:	Telephone:
Design Professional or other contact regarding information on construction drawings:		Telephone:
		Section I - Building Planning
✓ or N/A	Drawing Page No.	 Two sets of construction drawings prepared and sealed by registered design professional Scale marked on drawings Climatic and geographic design criteria Structural design criteria Framing lumber; species, grade, size, spacing and span Framing lumber; minimum bearing requirements Manufactured wood products engineer seal Use designation for all rooms/spaces Dimensions for all rooms/spaces Ceiling heights for all rooms/spaces Typical building cross section Elevation drawings including indication of finished grade; front, side and rear Windows and doors; size type and location Hazardous glazing locations (safety glazing) Window fall prevention devices; applies to open able windows wher bottom of opening is > 72" above grade and bottom of opening is < 24" above finished floor Skylight glazing material 1 3/8" solid core door or 20-minute fire-rated door between garage
		and living space 18. 5/8" Type X gypsum board or equivalent separation between garag
		and habitable space 19. Emergency escape and rescue opening from basements. 20. Emergency escape and rescue opening from every sleeping room 21. Emergency escape and rescue opening net clear opening 22. Emergency escape and rescue opening net clear height and width

√ or	Drawing Page	
N/A	No.	22 Englished floor
		23. Emergency escape and rescue opening sill height above finished floor24. Emergency escape and rescue opening sill height above finished
		24. Emergency escape and rescue opening sill height above finished grade
		25. Width of hallways
		26. Required exit door; width, height and type
		27. Floor and stair landings; size and location
		28. Width of stairways
		29. Stairs; riser height, tread depth and nosing projection
		30. Stair headroom
		31. Stair closed or open riser (if open, give dimension of opening)32. Protection of enclosed accessible space under stairs
		32. Protection of enclosed accessible space under stairs33. Handrail location and height above nosing
		34. Handrail type and grip size
		35. Handrail continuous for full length of flight
		36. Handrail returned or terminated in newel post
		37. Guardrail location and height
		38. Guardrail intermediate rail or ornamental closure spacing
		39. Smoke alarm locations
		40. Smoke alarm interconnection and power source
		41. Carbon Monoxide Alarm locations.
		42. Foam plastic ½" gypsum board separation from interior of building
		43. Moisture vapor retarder for all elements comprising the building thermal envelope that are not vented.
		44. Pressure treated lumber in areas subject to decay damage
		45. Termite shield; location, material and type
		Section II - Footings and Foundation
	Drawing	
✓ or N/A	Page No.	
		1. Presumptive load-bearing value of soil
		2. Concrete compressive strength
		3. Footing, width and edge thickness
		4. Footing, reinforcement size, location and spacing
		5. Footing depth below grade
		6. Footing projection 7 Footings supporting piers and columns; size, thickness and
		reinforcement
		8. Type of foundation walls (masonry, poured concrete, ICF, precast concrete, etc.)
		9. Precast concrete foundations require engineer's stamp and manufacturers installation instructions
		10. Foundation wall height

√ or	Drawing Page No.	
N/A	190.	11. Foundation unbalanced backfill height
 		12. Height of foundation above finished grade
		13. Foundation wall thickness
		14. Change in foundation wall thickness (masonry veneer ledge); course
		of solid masonry between thicker wall below and thinner wall above
		15. Foundation reinforcement size and spacing
		16. Sill plate size and decay protection
		17. Type of sill plate anchorage (anchor bolts or anchor straps)
		18. Anchor straps require manufacturer's installation instructions
		19. Anchor bolts; diameter, spacing, depth of embedment and distance from corners
-		20. Foundation drains; location, type and size of pipe, depth of gravel cover, size of gravel and filter membrane
		21. Dampproofing/Waterproofing system
		22. Steel beam; location, size, weight and thickness
		23. Steel beam pocket bearing details; thickness of solid masonry
		24. Steel columns; size, weight and method of corrosion protection
		25. Wood columns; size and method of decay protection
		26. Method of column anchorage (prevent lateral displacement)
		27. Under-floor space (crawlspace) vented or not vented
		28. Vented crawlspace; location and size of openings, vapor retarder
		29. Non-vented crawlspaces; indicate if mechanical ventilation or conditioned air, vapor retarder
		30. Crawlspace access size and location
		31. Crawlspace; distance of crawlspace grade to bottom of floor joist
		Section III - Floors
√ or	Drawing Page	
N/A	No.	4 771 6 2 1 (1) 1
		1. Floor framing details plan
		2. Floor joist; species, grade, size, spacing and span
		3. Girder and header; species, grade, size, spacing and span
		4. Cantilevered joist; ratio of backspan to cantilever, full depth rim joist, blocking and type of connections
		5. Double floor joist under parallel bearing partitions
		6. Floor joist lateral restraint and bridging; location and method
		7. Floor joist framing of openings; header, trimmer joist and tail joist
		8. Floor sheathing; type, span rating and thickness
		9. Concrete floors (on ground); thickness of slab, compressive strength, thickness of gravel base, size of gravel used for base and vapor retarder

Section IV - Wall Construction

√ or N/A	Drawing Page No.	
14/71	110.	1. Wall studs (interior and exterior); species, grade, size, spacing and
	<u> </u>	height 2. Girder and header; species, grade, size, span and number of jack studs
		3. Wall bracing; braced wall lines, location, length and method
		4. Stud wall capped with double top plate
		5. Stud wall bottom plate6. Fireblocking (required to cut off all concealed draft openings both
		vertical and horizontal); location and material
		Section V - Wall Covering
√ or	Drawing	
v or N/A	Page No.	
		1. Interior wall covering; type, material, thickness and fastening method
		(nails, screws, glued or combination)2. Exterior wall covering material
		3. Exterior wall sheathing; type, span rating and thickness
		4. Exterior wall water-resistive barrier
		5. Exterior wall flashing (top of doors and windows, chimneys, porches, decks, stairs, roof intersections, etc.)
		6. Stone and masonry veneer ties; type, gage, horizontal spacing and area supported
		7. Stone and masonry veneer; air space, flashing and weep holes
		8. Stone and masonry veneer lintels; size, thickness and bearing
		Section VI - Roof and Ceiling Construction
√ or	Drawing	
v or N/A	Page No.	
		1. Pitch/slope of roof
		2. Roof and ceiling framing details plan
		3. Roof rafter; species, grade, size, spacing and span
		4. Ceiling joist; species, grade, size, spacing and span
•		5. Roof rafter framing of openings; header, trimmer rafters and tail rafters
		6. Ceiling joist framing of openings; header, trimmer joist and tail joist7. Roof ridge board; size and thickness
		8. Roof valley or hip rafter; size and thickness

√ or	Drawing Page		
N/A	No.		a we have a 11 14 and are made a time give and anguing
		9.	Ceiling joist not parallel to rafters: rafter ties; type, size and spacing Ceiling joist not parallel to rafters: roof ridge beam/girder; designed
		10.	and sealed by registered design professional
		11.	Ceiling joist parallel to rafters; distance ends of joist lapped
		12.	Roof rafter and ceiling joist lateral restraint and bridging; location
			and method
<u></u>		13.	Roof tie-down; type, method and spacing
•		14.	Roof sheathing; type, span rating and thickness
		15.	Attic access; location and size
		16.	Roof ventilation for attics and enclosed rafter spaces; location, type, number and size
		17.	Eave or cornice vents; amount of space provided between insulation and roof sheathing
		18.	Ceiling covering; type, material, thickness and fastening method (nails, screws, glued or combination)
		19.	Roof covering; material and class
		20.	Roof covering underlayment; type, thickness and number of layers
		21.	Roof flashing; location, method and material
		22.	Ice shield/protection underlayment; type, material and distance from
		0.2	exterior wall line of building China an arielat/goddler material, height and width
		23.	Chimney cricket/saddle; material, height and width
		<u>S</u>	ection VII - Masonry Chimneys and Fireplaces
,	Drawing		
√ or N/A	Page No.		
IN/A	NO.	1.	Footings; width, edge thickness, reinforcement and depth below grade
		2.	Chimney wall; thickness of solid masonry units
		3.	Termination; height above roof and height above any portion of the
			building within ten feet
		4.	Chimney clearances; distance of air space clearance to combustibles
		5.	Chimney fireblocking; location and material
		6.	Fireplace flue size
		7.	Fireplace firebox walls; thickness of solid masonry units
		8.	Fireplace firebox dimensions; height, width and depth
		. 9.	Fireplace lintel; size, location and material Fireplace throat; distance above lintel
		10. 11.	Fireplace damper; material and distance above fireplace opening
		11.	Fireplace smoke chamber; thickness of solid masonry units
		13.	Fireplace smoke chamber dimensions; inside height and width
		14.	Fireplace hearth slab thickness

✓ or	Drawing Page	
N/A	No.	and the state of t
		15. Fireplace hearth extension; material, thickness, distance to sides and distance to front
		16. Fireplace clearance to combustible material; distance from front, sides and back
		17. Fireplace mantel and trim made of combustible material; thickness of
		material and distance from fireplace opening
		18. Fireplace exterior air supply; method and location
		Section VIII - Factory Built Chimneys and Fireplaces
	Drawing	
✓ or	Page	
N/A	No.	1 Tinting and labeling information provided
		 Listing and labeling information provided Manufacturer's installation instructions provided
		3. Fireplace exterior air supply; method and location
		5. Theplace extensi an supply, meaner and results.
		Section IX - Mechanical
	Drawing	
✓ or	Page	
N/A	No.	7777.4.CD 11
		1. Heating, ventilating and air conditioning (HVAC) appliances;
		location and type of fuel 2. Water heating appliance; location and type of fuel
		3. Heating appliances located in garage; height of ignition source above
		floor and method of protection from impact
		4. HVAC appliance access; location and size
		5. Heating and cooling equipment; load calculations (system load
		calculations should be obtained from mechanical contractor prior
		to application for building permit and submitted with
		construction drawings)
		6. Duct systems; material, location and size
,		7. Combustion air; calculations and source
		8. Clothes dryer exhaust; length and termination point
· · · · · · · · · · · · · · · · · · ·		9. Range hood exhaust; material and termination point 10. Bathroom exhaust, material and termination point
		10. Bathroom exhaust, material and termination point

Section X - Energy Efficiency

You must demonstrate compliance with the energy requirements of the Pennsylvania Uniform Construction Code. One method is to use the REScheck residential compliance program which you can obtain free from the U.S. Department of Energy at www.energycodes.gov. If you do not use the REScheck program, you must provide enough information on the construction drawings to demonstrate compliance with Chapter 11 of the International Residential Code (IRC) or the International Energy Conservation Code (IECC) or Pennsylvania's Alternative Residential Energy Provisions (PAREP).

REScheck Program

✓ or N/A	Drawing Page No.	Computer generated compliance record and inspectors checklist provided
		Chapter 11 of IRC
		IECC
		PAREP
		2 I I to a lasted compliance path, IPC IECC or PAREP
		2. Indicate selected compliance path; IRC, IECC or PAREP
		3. Climate Zone
		4. Glazing area; percent of the gross area of the exterior walls
		5. Glazing/fenestration; U-factor for all skylights, windows, doors, glass
		block, etc.
		6. Roof/ceiling insulation; R-value
		7. Framed wall insulation; R-value
		8. Floor over non-conditioned space insulation; R-value
		9. Concrete slab perimeter insulation; R-value and length
		10. Basement wall insulation; R-value
		11. Crawl space wall insulation; R-value
		12. Vapor retarder; location and type
		13. Air leakage; all joints, seams, penetrations, windows, doors, etc. sealed to limit air movement
		1
		17. Water heating appliance; energy efficiency rating

Section XI - Passive Radon Control System

,	Drawing	
✓ or	Page	
N/A	No.	1. Gas-permeable material; thickness of aggregate, size of aggregate
		2. Soil gas retarder; type and thickness of material
		3. Concrete floor openings and joints; type of sealant
		4. Change in foundation wall thickness (masonry veneer ledge); course
		of solid masonry between thicker wall below and thinner wall above
		5. Vent pipe; material and size
		6. Vent pipe termination; height above roof, distance from openings into
		conditioned space
		7. Vent pipe accessibility; location for future fan installation and power
		source
		Section VII COMMENTS
		Section XII – COMMENTS Correlate Comments with Section Number
		Correlate Comments with Section Pulifor

MY SIGNATURE AS THE DESIGN PROFESSIONAL FOR THIS BUILDING PERMIT CONSTITUTES MY VERIFICATION THAT THE STATEMENTS CONTAINED HERE ARE TRUE, AND THAT I AM SUBJECT TO THE PENALTY OF 18 PA. C.S.A. §4904 RELATING TO UNSWORN FALSIFICATIONS TO AUTHORITIES.

Person Completing Checklist

Signature		
Name (Please Print)		
Title	 	
Name of Company	 <u> </u>	

Building Permit No.	

BOROUGH OF FOX CHAPEL

MINIMUM REQUIREMENTS FOR BUILDING PERMIT CONSTRUCTION DRAWINGS FOR WOOD DECK PROJECTS & CHECKLIST

GENERAL REQUIREMENTS

The application for building permit must be accompanied by **the completed checklist** and **two sets of construction drawings**. The construction drawings shall be drawn to scale and shall be of sufficient clarity to indicate the nature and extent of the work proposed and shall show in detail that the work will conform with the provisions of the Commonwealth of Pennsylvania Uniform Construction Code and Borough of Fox Chapel Ordinance No. 639.

CONSTRUCTION DRAWING REVIEW CHECKLIST

The checklist on the following pages must be completed and submitted with the construction drawings. All information must be filled in, checked (\checkmark) to indicate that it is included or marked not applicable (N/A). An explanation for any information not marked as included or marked N/A must be given in Section V - Comments at the end of the checklist. All explanations in the comment section must be correlated to its section number (i.e., Section II, 3. would refer to footing depth below grade). The drawing page number on which the information is noted must also be identified. This checklist is designed to help you develop an acceptable set of drawings and is not meant to be all inclusive. The building code official may require additional information.

Owners Name:	Telephone:
Project Address:	
Agent Name:	Telephone:
Contact person regarding information on construction drawings:	Telephone:

$\underline{Section~I-Deck~Planning}$

✓ or N/A	Drawing Page No.	 Two sets of construction drawings Scale marked on drawings Structural design criteria; live load deck designed to support Elevation drawing indicating height of deck above finished grade Deck dimensions Section II - Footings
		Section II - Footings
✓ or N/A	Drawing Page No.	 Presumptive load-bearing value of soil Concrete compressive strength Footing depth below grade Footings supporting piers, posts and columns; size, thickness of concrete, reinforcement and location
		Section III – Floors and Columns
✓ or N/A	Drawing Page No.	
		1. Floor framing details plan
		2. Floor joist; species, grade, size, spacing and span
		3. Girder and header; species, grade, size, spacing and span
		4. Cantilevered joist; ratio of backspan to cantilever, full depth rim joist, blocking and type of connections
		5. Pressure preservatively treated or natural decay resistance wood
		6. Floor joist lateral restraint and bridging; location and method
		7. Floor joist framing of openings; header, trimmer joist and tail joist
		8. Floor sheathing/decking; type, span rating, thickness and direction
		9. Positive anchorage to primary structure; method, type of connector, diameter and spacing. Where positive connection to the primary building structure cannot be verified during inspection, decks shall be self-supporting.
		10. Support columns; size, spacing and location
		11. Deck lateral load connection; type of hold-down tension device and locations
		12. Connections to support columns; type of connector, length, diameter and spacing
		13. Joist hangers; material, size and location
		14. Flashing at house; method, material and location

Section IV - Stairs, Handrails and Guardrails

√ or	Drawing Page	
N/A	No.	
		1. Stair landings; size and location
		2. Width of stairways
		3. Stairs; riser height and tread depth
		4. Stair headroom
		5. Stair closed or open riser (if open, give dimensions of opening)
		6. Handrail location and height above riser
		7. Handrail type and grip size
		8. Handrail continuous for full length of flight9. Handrail returned or terminated in newel post
		10. Guardrail location and height
		11. Guardrail intermediate rail or ornamental closure spacing
		12. Guardrail connection to deck; method, type of connector, length,
	•	diameter and spacing
		13. Guardrail construction detail; material, size of top rail, bottom rail
		and intermediate rails
		Section V – Comments
		Correlate Comments with Section Number
		·
BUILD: CONTA	ING PERM AINED HERE	ON BEHALF OF/OR AS THE CONTRACTOR/APPLICANT FOR THIS IT CONSTITUTES MY VERIFICATION THAT THE STATEMENTS ARE TRUE, AND THAT I AM SUBJECT TO THE PENALTY OF 18 PA. C.S.A. O UNSWORN FALSIFICATIONS TO AUTHORITIES. Person Completing Checklist
		Signature
		Name (Places Print)
		Name (Please Print)
		Title
		Name of Company

BUILDING PERMIT FEE SCHEDULE

The fee for nonresidential and residential building permits for buildings, houses and accessory structures and for additions thereto, shall be the higher of the following:

A fee based on the area of construction equal to \$0.30/per square foot of building space. In determining the building space, the area on each floor within the building or work envelope shall be counted including, but not limited to, the area of garages, basements and areas of upper floors which are open to the floor below (such as atria, open stairwell, etc.) but excluding the area of crawl spaces.

A fee based on the estimated cost of construction using the following table:

Estimated Co	nstructions Cost	Fee
\$0	\$ 999	\$28
\$1,000	\$ 1,999	\$33
\$2,000	\$ 4,999	\$44
\$5,000	\$ 9,999	\$61
\$10,000	\$15,000	\$77

>\$15,000 = \$4.60 per \$1,000 of estimated construction cost.

The estimated construction cost shall be determined by the Borough.

Plus the actual costs incurred by the Borough.

Demolition Permits

The fee for a permit for the demolition of a building or structure less than 800 Square feet shall be \$30.00 and for a building or structure 800 square feet or greater shall be \$210.00

Labor and Industry Building Permit Training Fund \$4.00 or charge equal to amount imposed by Pennsylvania Uniform Construction Code (Applies to each building permit and each demolition permit)

Building Permit Re-inspections \$35.00

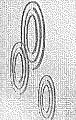
BOROUGH OF FOX CHAPEL ZONING CERTIFICATE OF COMPLIANCE APPLICATION

A Zoning Certificate is required when there is a change of ownership, occupancy or use and upon application for building permit in the Borough of Fox Chapel per Borough Ordinance No. 686. This form must be returned to the Borough and a Zoning Certificate issued by the Borough *prior* to a real estate closing on the property or issuance of a building permit.

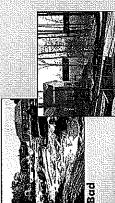
The following is to be completed by the Buyer/Proposed Landowner/Building Permit Applicant	
Date of Application Name	
Address of Property	
Will Applicant be occupying home? Yes No If no, who will?	
What is current use of property?	
Single-Family Dwelling [] Vacant Land [] Other []	
What is the proposed use of property:	
Proposed number of occupants	
Do your planned activities constitute a Home Occupation, business and/or require a license? Yes No	
If Yes, please provide details and copy of license.	
Under penalty of law, I/we certify that the above information is true and correct.	
Signature Printed	
Signature Printed	
NOTICE! This Certificate does not pertain to Building Code Compliance	
化氯化汞 化氯化汞 医阴炎 医阴炎 医阴炎 医胆管 医胆能性 医皮肤	
* Borough Use Only *	
Zoning District	
[] The stated occupancy is in accordance with the provisions of the Zoning Ordinance. [] The stated occupancy is not in accordance with the provisions of the Zoning Ordinance. Reason:	
Signature, Zoning Officer Certificate No.	

SECTION M

Stormwater and the Construction Industry



Protect Natural Features



- Minimize clearing.
- Minimize the amount of exposed soil,
- Identify and protect areas where existing vegetation, such as trees, will not be disturbed by construction activity.

Silf Fencing

or other sensitive areas from any disturbance or construction activity by fenering or otherwise clearly marking these areas. Protect streams, stream buffers, wild woodlands, wetlands,

Schedule site stabilization activities, such as landscaping, to be completed immediately after the land has been graded to its final contour.

Install key sediment control practices before site grading

Schedule or limit grading to small areas

Sequence construction activities so that the soil is not exposed for long periods of time.

Construction Phasing

Vegetative B∪ffers







- Good
- Protect and install vegetative buffers along waterbodies to
- Maintain buffers by mowing or replanting periodically to ensure their effectiveness.

Site Stabilization



Monton BABS





Good



Storm Drain Inlet Protection



Slopes

Construction Entrances

Don't place still lengts in the middle of a waterway or use them as a check dam.

Make sure the bortom of the silt fence is buried in the ground. Inspect and maintain silt fences after each rainstorm.



If you use inler filters, maintain them regularly,





6000

Break up long slopes with sediment barriers, or under drain, or divert stormwater away from slopes.

Good

Remove mud and dirt from the thres of construction vehicles before they enter a paved roadway.

Wake sire that the construction entrance does not become buried mison. Properly size entrance BMPs for all anticipated vehicles.

Rough grade or terrace slopes.



Cover or seed all dirt stockpiles.

Stormwater and the Construction Industry

Planning and Implementing Erosion and Sediment Control Practices

In the construction industry is a critical portrainen in the nucleus of protect frame, through their selection, and construction in the construction great makes the look allowed protections are the look allowed protection of the construction of t

is rediminated Town over a construction site, it polis up politicans ilse sediment, debiés, and chemicals. Tabb Olamos of termishter can also cause stream bank erosion, and destroy dewasteriam aquatic labbiat. Preventing soll

It shilling to the arthronical import, monatched energia on hive a sprittent finantial impact on a construction prince. Loose more fail the the expect gallet, spride voyation clear additional digged summariant managed and property sprince and the source of the professionary or trialization reserves.

Best Management Practice (BMP)

A BMP is anothed used to present or correct assumenear ratioff and the discharge of pollutaris, including actioners, into local waterholders. Silt forces, taket protection, and else-stubilization techniques are typical BMPs on a construction site.

An operator is comeone who has control over and the ability to modify construction pluns and specifications (e.g. owner.

Statemen who has carried over the drystocky operations as a life (pt., owner, perioral construction) that are necessary to enhance compilators with the perior frequencents. It is the responsibility of a construction site owner or operator to sentite commence muscli and present center and fell states of a project.

There may be more than one person at a cite who mere there definitions and must apply for permit coverage, (States may have different definitions of the term "operators")

So what's being done about polluted runoff?

The Cara Warris challed as the National Valence Designation Ellinetistic shreets shown (NEDE) symmetric program. As of Direct Warris and derivation are valent in the NEDE Symmetric Ellinetistic Streets and with management of the NEDE Symmetric Streets and the NEDE Symmetric Streets and NEDE STREETS and NED STREETS and NEDE STREETS and NEDE STREETS and NED STREETS and NE

- Develop and implement a stormwater pollution presention plan. Submit a permit application or notice of intent (AOI)
- Comply with the permit, including mannering BMPs and inspecting the site

Under the NEDES program, americanen sorivites that distants to more acres are required to dean secons semit corenge. States have different names for the plans that construction operators maint develop, such as

Stormwater pollution prevention plan

- · Erosion and sediment control plan

 - Water pollution con trol plan

This document uses the term "Plan."

think I need a permit... Where do I start?

No that determine provincing challed for givining, graphing and decisions to the faith of a primary average mental and the decision of the faith of

The WDDS yearst inequement undinks and construction entitled that we part of a larger common plan of bridgeoned or size and as ample to which a inequenced risks. Evidence perman with suited permansial recomment care care greated according to their middle person of the larger detectionment, an institute has larger and and recention expensive in the China changing or person person or size, they re-descripted to develop and and recention develop.

The numer are operator of the construction site is reasonable for complying with this requirements of the permit. Responsibilities is claim developing it Plan, obtaining restrict is coverage implementing BAPs, and stabilising the site is the raid of this construction destroy.

Setermine your eligibility

Al gonetyzzi en zativity. Mai dissuffis i en mens arres et land, as well as autivity flast diszuras less than I arre hui is Part et a larger som mon plan of development, must ob iazo permit coverage.

Read and understand your stormwater permit requirements Get a cay to layering information autilies and grant explication for audiendriant form) from your eners of the permits submits.

Develop or Plan.
Most state do not require your schair your Plan. However, you'd or need to keep the Plan too stat. It facts
in principally you may past a state for facilit where it is Plan is knywest can be unessend by the permitting malberty
and other increased perfect.

You'll need to post a copy of your completed application to aits. Put it in a place where the public can see it so they'll know your site is towered by an NPDES permit

Once, we analystated your termit requirements and have developed a Plan, you can which a scormwater permit application (e.g. solds of intent), upon your permitting authority. This may be chose before beginning any land distributions on the either beginning any land distributions on the eithe Boare state requires the days of lead time, so these with your permitting authority. Once, you've extensited has poplication, you must existly the conditions of the permit. Apply for permit coverage

Implement the Pion proposal to instead the BMRs is your Plus before construction begins. Ensure that BMRs are proposity the instructional and appeals can repair them or necessary.

Developing and Implementing a Plan

- and here a Plan that the holds, excitor and soulment control and politible proyention BMPs. These Plans require:
 Advance planning and including to enture proper implementation of the BMPs.
- * Regular Inspection of the construction site to ensure project includiation and mannessings of ISMI's

Vortinately, the positions and measures that met be included to your Plan for abraidy part of the sambard dysculting presenting

St elsy are mandend with their objects and implementary a strawness than been a walk of incremiants madalish on deritoring palliages from parts from consequent medium and mandend to find their additional palliages and their consequences are remainded as an action of their consequences are remainded to their consequen

1. Site Evaluation and Design Development

- Develop site plan design
- Prepare pollution prevention site map

The district of it propriets of that is a skiller be alternativities of the sits and the system of construction that will bown "This into it controlled in the following old following the latest gainst described in the system of construction and the second stretching to the state of the construction and the stretching the states of the construction and the stretching the states of the construction and the states are stated as the states of the sta

2. Assessment

- Determine the drainage areas
- Calculate the runoff coefficient

The near way is associng the Impaut the project will have an attentioned in the Character area and entertain the repord modulue and relocated with near a calculating the remail coedinates; you have remained to be remail to consider the project of the page 11.

3. Control Selection and Plan Design

- Review and incorporate state or local requirements
 - Salect erosion and sediment controls
- Indicate the location of controls on the site map
- W Prepare an inspection and maintenance plan
- Coordinate controls with construction activity

renter ranoff, You miss delineate areas that will not be to identify the measures (or BMPs) you'll the to protect is the third step you'll sensally documen your procedures to prevent and coursel polluted step the third step you'll sensally documen the trees the stream of the stream o Prepare sequence of major activities

- SOII evoston control tipo...

 Deligh tar the inflime remember this governd and so kery it can of sterm drafas. Efficience or relations the softenment orders to relations or printer which examples the pro- of remembers of the pre- of terminalize relationships and beneficious includitions.
- Milliamic the amount of exposed tail on this.

 The treates possible that he provide tail on this is the tension of them then is but and when the second the second treates it was set all expect, the many treat and departs with the is excellent means.

 The second treates the second treates to transpersy confine in the present of the second final provides for the second treates.
 - - Vegetate to cover elected that will not be used enmediately.
- ** Excises the relating of streamware the east and an early as a proper of the state of the stat Sufferences and other types of parimeter filters though group be used to existe the velocity of suppli.
- Present defrinct channels immediately with massives decigate to kinkly in earthm. Divis expected.
 ** Soft greenfall, suffered floor, pripage, or other abblishation majusines stated to be and it a faller the channels of sufficient you were whiten carding cremen. Use colors massives this greenfalls as vayeaulon where provide to preven divisions largoria.
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Maintaining a Plan 5. Implementing and

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- Update/change the Plan
- Report releases of huzardons materials

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Final stabilization

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Preconstruction Checklist

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Implementation Checklist

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- effective to prevent pollution than it is to try to correct problems later. Installing and An ounce of prevention is worth a pound of cure. It's far more efficient and cost-

maintaining simple BMPs and pollution prevention techniques on site can greatly reduce the potential for stormwater pollution and can also save you money! SECTION M

Visit www.epa.gov/npdes/stormwater for more information.

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Stormwater Phase II Final Rule

Construction Site Runoff Control Minimum Control Measure

This fact sheet profiles the Construction Site Runoff Control minimum control measure, one of six measures that the operator of a Phase II regulated small municipal separate storm sewer system (MS4) is required to include in its stormwater management program to meet the conditions of its National Pollutant Discharge Elimination System (NPDES) permit. This fact sheet outlines the Phase II Final Rule requirements and offers some general guidance on how to satisfy them. It is important to keep in mind that the small MS4 operator has a great deal of flexibility in choosing exactly how to satisfy the minimum control measure requirements.

Why Is The Control of Construction Site Runoff Necessary?

polluted stormwater runoff from construction sites often $oldsymbol{\Gamma}$ flows to MS4s and ultimately is discharged into local rivers and streams. Of the pollutants listed in Table 1, sediment is usually the main pollutant of concern. According to the 2000 National Water Quality Inventory, States and Tribes report that sedimentation is one of the most widespread pollutants affecting assessed rivers and streams, second only to pathogens (bacteria). Sedimentation impairs 84,503 river and stream miles (12% of the assessed river and stream miles and 31% of the impaired river and stream miles). Sources of sedimentation include agriculture, urban runoff, construction, and forestry. Sediment runoff rates from construction sites, however, are typically 10 to 20 times greater than those of agricultural lands, and 1,000 to 2,000 times greater than those of forest lands. During a short period of time, construction sites can contribute more sediment to streams than can be deposited naturally during several decades. The resulting siltation, and the contribution of other pollutants from construction sites,

Table 1

Pollutants
Commonly Discharged
From Construction Sites

Sediment
Solid and sanitary wastes
Phosphorous (fertilizer)
Nitrogen (fertilizer)
Pesticides
Oil and grease
Concrete truck washout
Construction chemicals
Construction debris

can cause physical, chemical, and biological harm to our nation's waters. For example, excess sediment can quickly fill rivers and lakes, requiring dredging and destroying aquatic habitats.

What Is Required?

The Phase II Final Rule requires an operator of a regulated small MS4 to develop, implement, and enforce a program to reduce pollutants in stormwater runoff to their MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. The small MS4 operator is required to:

- Have an ordinance or other regulatory mechanism requiring the implementation of proper erosion and sediment controls, and controls for other wastes, on applicable construction sites;
- Have procedures for site plan review of construction plans that consider potential water quality impacts;

Stormwater Phase II Final Rule Fact Sheet Series

Overview

1.0 – Stormwater Phase II Final Rule: An Overview

Small MS4 Program

- 2.0 Small MS4 Stormwater Program Overview
- 2.1 Who's Covered? Designation and Waivers of Regulated Small MS4s
- 2.2 Urbanized Areas: Definition and Description

Minimum Control Measures

- 2.3 Public Education and Outreach
- 2.4 Public Participation/ Involvement
- 2.5 Illicit Discharge Detection and Elimination
- 2.6 Construction Site Runoff Control
- 2.7 Post-Construction Runoff Control
- 2.8 Pollution Prevention/Good Housekeeping
- 2.9 Permitting and Reporting: The Process and Requirements
- 2.10 Federal and State-Operated MS4s: Program Implementation

Construction Program

- 3.0 Construction Program Overview
- 3.1 Construction Rainfall Erosivity Waiver

Industrial "No Exposure"

4.0 – Conditional No Exposure Exclusion for Industrial Activity

	Have procedures for site inspection and enforcement of control measures;
Q	Have sanctions to ensure compliance (established in the ordinance or other regulatory mechanism);
	Establish procedures for the receipt and consideration of information submitted by the public; and
	Determine the appropriate best management practices (BMPs) and measurable goals for this minimum control measure. Suggested BMPs (i.e., the program actions/activities) and measurable goals are presented below.

What Are Some Guidelines for Developing and Implementing This Measure?

 Γ urther explanation and guidance for each component of a regulated small MS4's construction program is provided below.

Regulatory Mechanism

Through the development of an ordinance or other regulatory mechanism, the small MS4 operator must establish a construction program that controls polluted runoff from construction sites with a land disturbance of greater than or equal to one acre. Because there may be limitations on regulatory legal authority, the small MS4 operator is required to satisfy this minimum control measure only to the maximum extent practicable and allowable under State, Tribal, or local law.

Site Plan Review

The small MS4 operator must include in its construction program requirements for the implementation of appropriate BMPs on construction sites to control erosion and sediment and other waste at the site. To determine if a construction site is in compliance with such provisions, the small MS4 operator should review the site plans submitted by the construction site operator before ground is broken.

Site plan review aids in compliance and enforcement efforts since it alerts the small MS4 operator early in the process to the planned use or non-use of proper BMPs and provides a way to track new construction activities. The tracking of sites is useful not only for the small MS4 operator's recordkeeping and reporting purposes, which are required under their NPDES stormwater permit (see Fact Sheet 2.9), but also for members of the public interested in ensuring that the sites are in compliance.

Inspections and Penalties

Once construction commences, BMPs should be in place and the small MS4 operator's enforcement activities should begin. To ensure that the BMPs are properly installed, the small MS4 operator is required to develop procedures for site inspection and enforcement of control measures to deter infractions. Procedures could include steps to identify priority sites for inspection and enforcement based on the nature and extent of the construction activity, topography, and the characteristics of soils and receiving water quality. Inspections give the MS4 operator an opportunity to provide additional guidance and education, issue warnings, or assess penalties. In early 2002, EPA's Office of Compliance established a national workgroup to address issues related to the construction industry. The workgroup has developed a construction industry compliance assistance Web site as a tool for builders and developers (www.cicacenter.org). Inspectors can use the Web site to find plain language explanations of the major environmental laws affecting the construction industry as well as guidance that can be distributed developers and construction site operators.

To conserve staff resources, one possible option for small MS4 operators is to have inspections performed by the same inspector that visits the sites to check compliance with health and safety building codes.

Information Submitted by the Public

A final requirement of the small MS4 program for construction activity is the development of procedures for the receipt and consideration of public inquiries, concerns, and information submitted regarding local construction activities. This provision is intended to further reinforce the public participation component of the regulated small MS4 stormwater program (see Fact Sheet 2.4) and to recognize the crucial role that the public can play in identifying instances of noncompliance.

The small MS4 operator is required only to *consider* the information submitted, and may not need to follow-up and respond to every complaint or concern. Although some form of enforcement action or reply is not required, the small MS4 operator is required to demonstrate acknowledgment and consideration of the information submitted. A simple tracking process in which submitted public information, both written and verbal, is recorded and then given to the construction site inspector for possible follow-up will suffice.

What Are Appropriate Measurable Goals?

Measurable goals, which are required for each minimum control measure, are intended to gauge permit compliance and program effectiveness. The measurable goals, as well as the BMPs, should reflect the needs and characteristics of the operator and the area served by its small MS4. Furthermore, they should be chosen using an integrated approach that fully addresses the requirements and intent of the minimum control measure.

EPA has developed a Measurable Goals Guidance for Phase II MS4s that is designed to help program managers comply with the requirement to develop measurable goals. The guidance presents an approach for MS4 operators to develop measurable goals as part of their stormwater management plan. For example, an MS4 program goal might be to educate at least 80 percent of all construction site operators and contractors about proper selection, installation, inspection, and maintenance of BMPs by the end of the permit term, which will help to ensure compliance with erosion and sediment control requirements. This goal could be tracked by documenting attendance at local, State, or Federal training programs. Attendance can be encouraged by decreasing permitting fees for those contractors who have been trained and provide proof of attendance when applying for permits.

Are Construction Sites Covered Under the NPDES Stormwater Program?

 ${f Y}$ es. On March 10, 2003, Phase II NPDES regulations came into effect that extended coverage to construction sites that disturb one to five acres in size, including smaller sites that are part of a larger common plan of development or sale (see Fact Sheet 3.0 for information on the Phase II construction program). Sites disturbing five acres or more were regulated previously. Most states have been authorized to implement the NPDES stormwater program and have issued, or are developing state-specific construction general permits. EPA remains the permitting authority in a few states, territories, and on most land in Indian Country, however. For construction (and other land disturbing activities) in areas where EPA is the permitting authority, operators must meet the requirements of the EPA Construction General Permit (CGP). Permitting authority information can be found in Appendix B of the CGP. CGP permit requirements include the submission of a Notice of Intent and the development of a stormwater pollution prevention plan (SWPPP). The SWPPP must include a site description and measures and controls to prevent or minimize pollutants in stormwater discharges.

Even though all construction sites that disturb more than one acre are covered by national NPDES regulations, the construction site runoff control minimum measure for the small MS4 program is needed to induce more localized site regulation and enforcement efforts, and to enable operators of regulated small MS4s to more effectively control construction site discharges into their MS4s.

To aid operators of regulated construction sites in their efforts to comply with both local requirements and their NPDES permit, the Phase II Final Rule includes a provision that allows the NPDES permitting authority to reference a "qualifying State, Tribal or local program" in the NPDES general permit for construction. This means that if a construction site is located in an area covered by a qualifying local program, then the construction site operator's compliance with the local program constitutes compliance with their NPDES permit. A regulated small MS4's stormwater program for construction could be a "qualifying program" if the MS4 operator requires a SWPPP, in addition to the requirements summarized in this fact sheet.

The ability to reference other programs in the NPDES permit is intended to reduce confusion between overlapping and similar local and NPDES permitting authority requirements, while still providing for both local and national regulatory coverage of the construction site. The provision allowing NPDES permitting authorities to reference other programs has no impact on, or direct relation to, the small MS4 operator's responsibilities under the construction site runoff control minimum measure profiled here.

Is a Small MS4 Required to Regulate Construction Sites that the Permitting Authority has Waived from the NPDES Construction Program?

No. If the NPDES permitting authority waives requirements for stormwater discharges associated with small construction activity (see 40 CFR § 122.26(b)(15)(i)), the small MS4 operator is not required to develop, implement, and/or enforce a program to reduce pollutant discharges from such construction sites.

For Additional Information

Contacts

U.S. EPA Office of Wastewater Management http://www.epa.gov/npdes/stormwater
Phone: 202-564-9545

Your NPDES Permitting Authority. Most States and Territories are authorized to administer the NPDES Program, except the following, for which EPA is the permitting authority:

Alaska Guam

District of Columbia Johnston Atoll

Idaho Midway and Wake Islands

Massachusetts Northern Mariana Islands

New Hampshire Puerto Rico New Mexico Trust Territories

American Samoa

A list of names and telephone numbers for each EPA Region and State is located at http://www.epa.gov/npdes/stormwater (click on "Contacts").

Reference Documents

EPA's Stormwater Web Site

http://www.epa.gov/npdes/stormwater

- Stormwater Phase II Final Rule Fact Sheet Series
- Stormwater Phase II Final Rule (64 FR 68722)
- National Menu of Best Management Practices for Stormwater Phase II
- Measurable Goals Guidance for Phase II Small MS4s
- · Stormwater Case Studies
- · And many others
- EPA Construction General Permit and Fact Sheet www.epa.gov/npdes/stormwater/cgp
- EPA Stormwater Management for Construction Activities and Best Management Practices: Developing Pollution Prevention Plans Guidance
- Construction Industry Compliance Assistance
 Center. http://www.cicacenter.org/



Stormwater Phase II Final Rule

Post-Construction Runoff Control Minimum Control Measure

This fact sheet profiles the Post-Construction Runoff Control minimum control measure, one of six measures that the operator of a Phase II regulated small municipal separate storm sewer system (MS4) is required to include in its stormwater management program in order to meet the conditions of its National Pollutant Discharge Elimination System (NPDES) permit. This fact sheet outlines the Phase II Final Rule requirements for post-construction runoff control and offers some general guidance on how to satisfy those requirements. It is important to keep in mind that the small MS4 operator has a great deal of flexibility in choosing exactly how to satisfy the minimum control measure requirements.

Why Is The Control of Post-Construction Runoff Necessary?

Post-construction stormwater management in areas undergoing new development or redevelopment is necessary because runoff from these areas has been shown to significantly affect receiving waterbodies. Many studies indicate that prior planning and design for the minimization of pollutants in post-construction stormwater discharges is the most cost-effective approach to stormwater quality management.

There are generally two forms of substantial impacts of post-construction runoff. The first is caused by an increase in the type and quantity of pollutants in stormwater runoff. As runoff flows over areas altered by development, it picks up harmful sediment and chemicals such as oil and grease, pesticides, heavy metals, and nutrients (e.g., nitrogen and phosphorus). These pollutants often become suspended in runoff and are carried to receiving waters, such as lakes, ponds, and streams. Once deposited, these pollutants can enter the food chain through small aquatic life, eventually entering the tissues of fish and humans. The second kind of post-construction runoff impact occurs by increasing the quantity of water delivered to the waterbody during storms. Increased impervious surfaces (e.g., parking lots, driveways, and rooftops) interrupt the natural cycle of gradual percolation of water through vegetation and soil. Instead, water is collected from surfaces such as asphalt and concrete and routed to drainage systems where large volumes of runoff quickly flow to the nearest receiving water. The effects of this process include streambank scouring and downstream flooding, which often lead to a loss of aquatic life and damage to property.

What Is Required?

The Phase II Final Rule requires an operator of a regulated small MS4 to develop, implement, and enforce a program to reduce pollutants in post-construction runoff to their MS4 from new development and redevelopment projects that result in the land disturbance of greater than or equal to 1 acre. The small MS4 operator is required to:

- Develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs);
- Have an ordinance or other regulatory mechanism requiring the implementation of postconstruction runoff controls to the extent allowable under State, Tribal or local law;

Stormwater Phase II Final Rule Fact Sheet Series

Overview

1.0 – Stormwater Phase II Final Rule: An Overview

Small MS4 Program

- 2.0 Small MS4 Stormwater Program Overview
- 2.1 Who's Covered? Designation and Waivers of Regulated Small MS4s
- 2.2 Urbanized Areas: Definition and Description

Minimum Control Measures

- 2.3 Public Education and Outreach
- 2.4 Public Participation/ Involvement
- 2.5 Illicit Discharge Detection and Elimination
- 2.6 Construction Site Runoff Control
- 2.7 Post-Construction Runoff Control
- 2.8 Pollution Prevention/Good Housekeeping
- 2.9 Permitting and Reporting: The Process and Requirements
- 2.10 Federal and State-Operated MS4s: Program Implementation

Construction Program

- 3.0 Construction Program Overview
- 3.1 Construction Rainfall Erosivity Waiver

industrial "No Exposure"

4.0 – Conditional No Exposure Exclusion for Industrial Activity

- Ensure adequate long-term operation and maintenance of controls:
- Determine the appropriate best management practices and measurable goals for this minimum control measure.

What Is Considered a "Redevelopment" Project?

The Phase II Final Rule applies to "redevelopment" projects that alter the "footprint" of an existing site or building in such a way that there is a disturbance of equal to or greater than 1 acre of land. Redevelopment projects do not include such activities as exterior remodeling. Because redevelopment projects may have site constraints not found on new development sites, the Phase II Final Rule provides flexibility for implementing post-construction controls on redevelopment sites that consider these constraints.

What Are Some Guidelines for Developing and Implementing This Measure?

This section includes some non-structural and structural BMPs that could be used to satisfy the requirements of the post-construction runoff control minimum measure. It is important to recognize that many BMPs are climate-specific, and not all BMPs are appropriate in every geographic area. Because the requirements of this measure are closely tied to the requirements of the construction site runoff control minimum measure (see Fact Sheet 2.6), EPA recommends that small MS4 operators develop and implement these two measures in tandem.

☐ Non-Structural BMPs

- Planning Procedures. Runoff problems can be addressed efficiently with sound planning procedures. Local master plans, comprehensive plans, and zoning ordinances can promote improved water quality in many ways, such as guiding the growth of a community away from sensitive areas to areas that can support it without compromising water quality.
- Site-Based BMPs. These BMPs can include buffer strip and riparian zone preservation, minimization of disturbance and imperviousness, and maximization of open space.

☐ Structural BMPs

 Stormwater Retention/Detention BMPs. Retention or detention BMPs control stormwater by gathering runoff in wet ponds, dry basins, or multichamber catch basins and slowly releasing it to receiving waters or drainage systems. These practices can be designed to both control stormwater volume and settle out particulates for pollutant removal.

- Infiltration BMPs. Infiltration BMPs are designed to facilitate the percolation of runoff through the soil to ground water, and, thereby, result in reduced stormwater runoff quantity and reduced mobilization of pollutants. Examples include infiltration basins/trenches, dry wells, and porous pavement.
- Vegetative BMPs. Vegetative BMPs are landscaping features that, with optimal design and good soil conditions, remove pollutants, and facilitate percolation of runoff, thereby maintaining natural site hydrology, promoting healthier habitats, and increasing aesthetic appeal. Examples include grassy swales, filter strips, artificial wetlands, and rain gardens.

What Are Appropriate Measurable Goals?

Measurable goals, which are required for each minimum control measure, are intended to gauge permit compliance and program effectiveness. The measurable goals, as well as the BMPs, should reflect needs and characteristics of the operator and the area served by its small MS4. Furthermore, the measurable goals should be chosen using an integrated approach that fully addresses the requirements and intent of the minimum control measure.

EPA has developed a Measurable Goals Guidance for Phase II MS4s that is designed to help program managers comply with the requirement to develop measurable goals. The guidance presents an approach for MS4 operators to develop measurable goals as part of their stormwater management plan. For example, an MS4 program goal might be to reduce by 30 percent the road surface areas directly connected to storm sewer systems (using traditional curb and gutter infrastructure) in new developments and redevelopment areas over the course of the first permit term. Using "softer" stormwater conveyance approaches, such as grassy swales, will increase infiltration and decrease the volume and velocity of runoff leaving development sites. Progress toward the goal could be measured by tracking the linear feet of curb and gutter not installed in development projects that historically would have been used.