

# DEPARTMENT OF DEVELOPMENTAL SERVICES

## West Region

### INVITATION TO BID

#### Roofing Project

Migeon CLA, 263 Migeon Ave. Torrington, CT

&

Tunick CLA, 660 East Main St. Torrington, CT

- *PROJECT # and PROJECT TITLE:*  
**BI-DDS-541 Roofing Project**
- *MANDATORY PRE-BID MEETING TO BE HELD ON:*  
**Tuesday May 12, 2009 @ 10:00 AM**
- *PRE-BID MEETING TO BE HELD AT:*  
**Begins at Migeon Ave home.**  
*Pre-registration required. Please contact Trudy Holyst at 203-805-7415 to register.*
- *REQUESTS FOR CLARIFICATION, QUESTIONS CONCERNING SCOPE OF WORK, AND PROPOSED SUBSTITUTION(S) OF PRODUCTS ARE DUE TO THE FACILITIES REPRESENTATIVE BY: Tuesday May 19, 2009 @ 1:00PM*
- *(OPTIONAL) SITE VIST for CLARIFICATIONS, QUESTIONS AND FINAL MEASUREMENTS N/A To be discussed at pre-bid*
- *CLARIFICATION AND ANSWERS TO QUESTIONS WILL BE POSTED ON THE DAS WEB PORTAL BY: Friday May 22, 2009 @ 4:00 PM*
- *BID OPENING DATE AND TIME:*  
**Friday May 29, 2009 @ 1:30 PM**
- *DDS FACILITY REPRESENTATIVE:*  
**ROBERT KLINGNER, PLANT FACILITIES ENGINEER**  
**Phone# 203-806-8762 Fax# 203-271-1352 Email: Robert.Klingner@ct.gov**
- *DDS BUSINESS OFFICE REPRESENTATIVE:*  
**LAUREN MARZIARZ, FAO**  
**25 CREMAERY ROAD**  
**CHESHIRE, CT 06410**  
**PHONE# 203-806-8819 FAX# 203-806-8768 EMAIL [Lauren.Marziarz@ct.gov](mailto:Lauren.Marziarz@ct.gov)**

All bids will be received at the date, time, and place (Business Office) specified and thereafter publicly opened and read aloud. The Department of Developmental Services is an Equal Employment/Affirmative Action Organization and will not knowingly do business with an organization/contractor that is or has been found to discriminate.

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# BIDDING REQUIREMENTS - INSTRUCTIONS TO BIDDERS

Failure to complete and submit any of the required forms, documents, or information may result in rejection of your bid. Should this occur, your bid will be deemed non-responsive and it will be disqualified. DDS reserves the right to not award this contract in whole or in part. Conditional bids will be disqualified. A conditional bid is defined as one limiting or modifying any of the terms and conditions and/or specifications.

## Forms **REQUIRED** to be submitted **WITH all bids**

- BID FORM ((2 pages, attached))
- PRE-BID REPRESENTATIVE FORM ((1 page, attached))
- EXPERIENCE, REFERENCES, & SUB-CONTRACTORS FORM ((1 page, attached))

## Required bond or check to be submitted **WITH bids equal to or greater than \$10,000**

- BID BOND OR CHECK per section IB. 1.11

## Additional form required to be submitted **WITH all bids equal to or greater than \$100,000**

- CONTRACTORS WAGE CERTIFICATION FORM (Dept. of Labor prevailing wage requirements) per section IB 1.10 ((1 page, attached))

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**The following forms / documents are required to be submitted after bid opening, by lowest bidder only, before Purchase Order can be issued. These forms must be submitted along with your bid, or, within 5 business days of being informed you are the lowest bidder. If not received within 5 business days, your bid may be deemed non-responsive and may be disqualified. It is strongly encouraged to submit these forms / documents, along with your bid, to administratively accelerate the issuance of a Purchase Order.**

- BIDDER CONTRACT COMPLIANCE MONITORING REPORT ((2 pages, attached))
  - PROOF OF INSURANCE per section IB. 1.12
  - PROOF OF REQUIRED CERTIFICATIONS AND TRADE LICENCES
  - GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION ((1 page, attached)) (Required if this bid exceeds \$50,000, or, if this bid causes the sum total of your previous contracts with DDS, in a calendar or fiscal year, to exceed \$50,000).
  - PERFORMANCE, LABOR, & MATERIAL BONDS (Required for projects equal to or greater than \$50,000) (Note: this form not required or suggested to be submitted with bid, but is required before issuance of PO).
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**BID FORM** (page 1 of 2)

TO: Lauren Marziarz, FAO  
Department of Developmental Services – West Region  
25 Creamery Road  
Cheshire, CT 06410

FOR: Project #: BI-DDS-541  
Project Title: Roofing Project  
Location: Migeon CLA, 263 Migeon Ave. Torrington, CT  
Tunick CLA, 660 East Main St. Torrington, CT

FROM: (Company Name) \_\_\_\_\_

In compliance with the Instruction to Bidders & Conditions of Bid (section I.B. 1.09), and subject to all conditions thereof, the undersigned offers and agrees to furnish all labor and materials and to complete work called for by the project’s technical specifications within the allotted time of ( 60 ) calendar days for the Lump Sum of:

**BASE BID:**  
WORDS \_\_\_\_\_ DOLLARS Figures:  
(\$ \_\_\_\_\_).

Base Bid (above) for Tunic and Migeon Group Homes shall include removal and replacement of 800 square ft. of sheathing per building. Unit pricing (including overhead, profit & mark-up) for quantities above or below this base bid quantity are as follows:

Plywood Sheathing Deduct: \$2.33/ square foot  
Plywood Sheathing Add: \$2.63/ square foot

Note: All prices shall remain valid for ninety (90) calendar days.

# **BID FORM** (page 2 of 2)

The General Contractor on this project will be required to perform not less than ( **50%** ) of the completed dollar value of the work with its own forces.

I (we), the undersigned, hereby declare that I am (we are) the only person(s) interested in this bid: That it is made without any connection with any other person making any bid for the same work: that no person acting for, or employed by, the State of Connecticut is directly or indirectly interested in this bid, or in any contract which may be made under it, or in expected profits to arise there from; that this bid is made without directly or indirectly influencing or attempting to influence any other person or corporation to bid or to refrain from bidding or to influence the amount of the bid of any other person or corporation: that this bid is made in good faith without collusion or connection with any other person bidding for the same work; and that this bid is made with distinct reference and relation to the plans and specifications prepared for this contract.

I (we) further declare that in regard to the conditions affecting the work to be done and the labor and materials needed, this bid is based solely on my (our) own investigation and research and not in reliance upon any representations of any employee, officer or agent of the State.

I have carefully read, understand and will comply with all of the above Project Terms and Conditions, Security Regulations and Scope of Work. I have received and incorporated all Addendums (if any) posted on the DAS Web Portal and have incorporated these within the bid.

Contractor Owner/Officer \_\_\_\_\_ Date: \_\_\_\_\_

Title \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City, State Zip \_\_\_\_\_

Phone # \_\_\_\_\_ Fax # \_\_\_\_\_ FEIN# \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Contractor Owner/Officer

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Notary Public

**\*\* END OF SECTION - BID FORM \*\***

# PRE-BID REPRESENTATIVE FORM

\_\_\_\_\_ was represented at the pre-bid meeting  
(Company Name)

held on \_\_\_\_\_ by \_\_\_\_\_  
(date of meeting) (name of representative)

and, therefore, we are fully responsible for all information, site conditions, and other items discussed at the meeting.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

# EXPERIENCE, REFERENCES, & SUB-CONTRACTORS FORM

## EXPERIENCE / REFERENCES

\*\* Reference IB 1.06 (Contractor Qualification Requirement)  
List similar type installations/projects completed in the last 18 months (at least 2).

Customer Name (Company)	Contact Person	Phone #	Address of Job	Type of Work Performed
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____

## Sub-Contractors

List Sub-Contractors to be used on this project.

Sub-Contractor's Company Name	Contact Person	Phone #	% of Work by Sub-Contractor (Maximum 50%)	Type of Work to be Performed
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____

**COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES**  
**CONTRACT COMPLIANCE REGULATIONS**  
**NOTIFICATION TO BIDDERS**

(Revised 09/17/07)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to “aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials.” “Minority business enterprise” is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: “(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of Section 32-9n.” “Minority” groups are defined in Section 32-9n of the Connecticut General Statutes as “(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4) Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . .” An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder’s qualifications under the contract compliance requirements:

- (a) the bidder’s success in implementing an affirmative action plan;
- (b) the bidder’s success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
- (c) the bidder’s promise to develop and implement a successful affirmative action plan;
- (d) the bidder’s submission of employment statistics contained in the “Employment Information Form”, indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
- (e) the bidder’s promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

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**INSTRUCTIONS AND OTHER INFORMATION**

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidders good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) **Definition of Small Contractor**

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding ten million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.



2) Description of Job Categories (as used in Part IV Bidder Employment Information)

<p><b>MANAGEMENT:</b> Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.</p> <p><b>BUSINESS AND FINANCIAL OPERATIONS:</b> These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.</p> <p><b>COMPUTER SPECIALISTS:</b> Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists, systems analysts, and computer support specialists</p> <p><b>ARCHITECTURE AND ENGINEERING:</b> Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.</p> <p><b>OFFICE AND ADMINISTRATIVE SUPPORT:</b> All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving of written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, payroll clerks, bill and account collectors, customer service representatives, files clerks, dispatchers, shipping clerks, secretaries and administrative assistants, computer operators, mail clerks, and stock clerks.</p>	<p><b>BUILDING AND GROUNDS CLEANING AND MAINTENANCE:</b> This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.</p> <p><b>CONSTRUCTION AND EXTRACTION:</b> This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category..</p> <p><b>INSTALLATION, MAINTENANCE AND REPAIR:</b> Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.</p> <p><b>MATERIAL MOVING WORKERS:</b> The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.</p>
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3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information)

<p><u>White</u> (not of Hispanic Origin)- All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.</p> <p><u>Black</u>(not of Hispanic Origin)- All persons having origins in any of the Black racial groups of Africa.</p> <p><u>Hispanic</u>- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.</p>	<p><u>Asian or Pacific Islander</u>- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa.</p> <p><u>American Indian or Alaskan Native</u>- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.</p>
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# Bidder Contract Compliance Monitoring Report

## PART I - Bidder Information

Company Name Street Address City & State Chief Executive	Bidder Federal Employer Identification Number _____ Or Social Security Number _____
Major Business Activity (brief description)	Bidder Identification (response optional/definitions on page 1)  -Bidder is a small contractor. Yes__ No__ -Bidder is a minority business enterprise Yes__ No__ (If yes, check ownership category) Black__ Hispanic__ Asian American__ American Indian/Alaskan Native__ Iberian Peninsula__ Individual(s) with a Physical Disability__ Female__
Bidder Parent Company (If any)	- Bidder is certified as above by State of CT Yes__ No__
Other Locations in Ct. (If any)	- DAS Certification Number _____

## PART II - Bidder Nondiscrimination Policies and Procedures

1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes__ No__	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a Conn. Gen. Stat.? Yes__ No__
2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes__ No__	8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes__ No__
3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes__ No__	9. Does your company have a mandatory retirement age for all employees? Yes__ No__
4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes__ No__	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes__ No__ NA__
5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes__ No__	11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor? Yes__ No__ NA__
6. Does your company have a collective bargaining agreement with workers? Yes__ No__ 6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes__ No__ 6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of Ct? Yes__ No__	12. Does your company have a written affirmative action Plan? Yes__ No__ If no, please explain.
	13. Is there a person in your company who is responsible for equal employment opportunity? Yes__ No__ If yes, give name and phone number. _____ _____

## Part III - Bidder Subcontracting Practices

1. Will the work of this contract include subcontractors or suppliers? Yes__ No__  1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)   1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? Yes__ No__
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**PART IV - Bidder Employment Information**

Date:

JOB CATEGORY	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	male	female
Management											
Business & Financial Ops											
Computer Specialists											
Architecture/Engineering											
Office & Admin Support											
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction											
Installation, Maintenance & Repair											
Material Moving Workers											
TOTALS ABOVE											
Total One Year Ago											
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

**PART V - Bidder Hiring and Recruitment Practices**

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)				2. Check (X) any of the below listed requirements that you use as a hiring qualification  (X)		3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination	
SOURCE	YES	NO	% of applicants provided by source				
State Employment Service				Work Experience			
Private Employment Agencies				Ability to Speak or Write English			
Schools and Colleges				Written Tests			
Newspaper Advertisement				High School Diploma			
Walk Ins				College Degree			
Present Employees				Union Membership			
Labor Organizations				Personal Recommendation			
Minority/Community Organizations				Height or Weight			
Others (please identify)				Car Ownership			
				Arrest Record			
				Wage Garnishments			

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

(Signature)	(Title)	(Date Signed)	(Telephone)
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## STATE OF CONNECTICUT GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION

Certification to accompany a State contract with a value of \$50,000 or more in a calendar or fiscal year, pursuant to C.G.S. §§ 4-250 and 4-252(c); Governor M. Jodi Rell's Executive Orders No. 1, Para. 8, and No. 7C, Para. 10; and C.G.S. §9-612(g)(2), as amended by Public Act 07-1

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### INSTRUCTIONS:

Complete all sections of the form. Attach additional pages, if necessary, to provide full disclosure about any lawful campaign contributions made to campaigns of candidates for statewide public office or the General Assembly, as described herein. Sign and date the form, under oath, in the presence of a Commissioner of the Superior Court or Notary Public. Submit the completed form to the awarding State agency at the time of initial contract execution (and on each anniversary date of a multi-year contract, if applicable).

**CHECK ONE:**     Initial Certification                       Annual Update (Multi-year contracts only.)

### GIFT CERTIFICATION:

As used in this certification, the following terms have the meaning set forth below:

1. "Contract" means that contract between the State of Connecticut (and/or one or more of its agencies or instrumentalities) and the Contractor, attached hereto, or as otherwise described by the awarding State agency below;
2. If this is an Initial Certification, "Execution Date" means the date the Contract is fully executed by, and becomes effective between, the parties; if this is an Annual Update, "Execution Date" means the date this certification is signed by the Contractor;
3. "Contractor" means the person, firm or corporation named as the contractor below;
4. "Applicable Public Official or State Employee" means any public official or state employee described in C.G.S. §4-252(c)(1)(i) or (ii);
5. "Gift" has the same meaning given that term in C.G.S. § 4-250(1);
6. "Planning Start Date" is the date the State agency began planning the project, services, procurement, lease or licensing arrangement covered by this Contract, as indicated by the awarding State agency below; and
7. "Principals or Key Personnel" means and refers to those principals and key personnel of the Contractor, and its or their agents, as described in C.G.S. §§ 4-250(5) and 4-252(c)(1)(B) and (C).

I, the undersigned, am the official authorized to execute the Contract on behalf of the Contractor. I hereby certify that, between the Planning Start Date and Execution Date, neither the Contractor nor any Principals or Key Personnel has made, will make (or has promised, or offered, to, or otherwise indicated that he, she or it will, make) any **Gifts** to any Applicable Public Official or State Employee.

I further certify that no Principals or Key Personnel know of any action by the Contractor to circumvent (or which would result in the circumvention of) the above certification regarding **Gifts** by providing for any other principals, key personnel, officials, or employees of the Contractor, or its or their agents, to make a **Gift** to any Applicable Public Official or State Employee. I further certify that the Contractor made the bid or proposal for the Contract without fraud or collusion with any person.

### CAMPAIGN CONTRIBUTION CERTIFICATION:

I further certify that, on or after December 31, 2006, neither the Contractor nor any of its principals, as defined in C.G.S. § 9-612(g)(1), has made any **campaign contributions** to, or solicited any contributions on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support, any candidate for statewide public office, in violation of C.G.S. § 9-612(g)(2)(A). I further certify that **all lawful campaign contributions** that have been made on or after December 31, 2006 by the Contractor or any of its principals, as defined in C.G.S. § 9-612(g)(1), to, or solicited on behalf of, any exploratory committee, candidate committee, political committee, or party committee established by, or supporting or authorized to support any candidates for statewide public office or the General Assembly, are listed below:



# STATE OF CONNECTICUT GIFT AND CAMPAIGN CONTRIBUTION CERTIFICATION

### Lawful Campaign Contributions to Candidates for Statewide Public Office:

<u>Contribution Date</u> <u>Description</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>

### Lawful Campaign Contributions to Candidates for the General Assembly:

<u>Contribution Date</u> <u>Description</u>	<u>Name of Contributor</u>	<u>Recipient</u>	<u>Value</u>

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

\_\_\_\_\_  
Printed Contractor Name  
**Official**

**Signature of Authorized**

**Subscribed and acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.**

\_\_\_\_\_  
**Commissioner of the Superior Court (or Notary Public)**

**For State Agency Use Only**

Awarding State Agency	Planning Start Date
Contract Number or Description	

STATE OF CONNECTICUT  
LABOR DEPARTMENT

WAGE & WORKPLACE STANDARDS DIVISION

**CONTRACTORS WAGE CERTIFICATION  
FORM**

**Contracts Greater than or Equal to \$100,000**

I, \_\_\_\_\_ of \_\_\_\_\_  
*Officer, Owner, Authorized Representative* *Company Name*

do hereby certify that the \_\_\_\_\_  
*Company Name*

\_\_\_\_\_  
*Street*

\_\_\_\_\_  
*City*

and all of its subcontractors will pay all workers on the

\_\_\_\_\_  
**Project Name and Number**

\_\_\_\_\_  
**Street and City**

the wages as listed in the current Dept. of Labor prevailing wage rates, as required for such project, per section IB 1.10.

\_\_\_\_\_  
**Signed**

Subscribed and sworn to before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Notary Public

Send 1 copy to: Labor Department  
Wage & Workplace Standards Division  
200 Folly Brook Blvd.  
Wethersfield, CT 06109

“With regard to a State contract as defined in P.A. 07-1 having a value in a calendar year of \$50,000 or more or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this submission in response to the State's solicitation expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising prospective state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice.

## **SEEC FORM 11**

### **NOTICE TO EXECUTIVE BRANCH STATE CONTRACTORS AND PROSPECTIVE STATE CONTRACTORS OF CAMPAIGN CONTRIBUTION AND SOLICITATION BAN**

This notice is provided under the authority of Connecticut General Statutes 9-612(g)(2), as amended by P.A. 07-1, and is for the purpose of informing state contractors and prospective state contractors of the following law (italicized words are defined below):

#### **Campaign Contribution and Solicitation Ban**

*No state contractor, prospective state contractor, principal of a state contractor or principal of a prospective state contractor, with regard to a state contract or state contract solicitation with or from a state agency in the executive branch or a quasi-public agency or a holder, or principal of a holder of a valid prequalification certificate, shall make a contribution to, or solicit contributions on behalf of (i) an exploratory committee or candidate committee established by a candidate for nomination or election to the office of Governor, Lieutenant Governor, Attorney General, State Comptroller, Secretary of the State or State Treasurer, (ii) a political committee authorized to make contributions or expenditures to or for the benefit of such candidates, or (iii) a party committee;*

*In addition, no holder or principal of a holder of a valid prequalification certificate, shall make a contribution to, or solicit contributions on behalf of (i) an exploratory committee or candidate committee established by a candidate for nomination or election to the office of State senator or State representative, (ii) a political committee authorized to make contributions or expenditures to or for the benefit of such candidates, or (iii) a party committee.*

#### **Duty to Inform**

State contractors and prospective state contractors are required to inform their principals of the above prohibitions, as applicable, and the possible penalties and other consequences of any violation thereof.

#### **Penalties for Violations**

Contributions or solicitations of contributions made in violation of the above prohibitions may result in the following civil and criminal penalties:

Civil penalties--\$2000 or twice the amount of the prohibited contribution, whichever is greater, against a principal or a contractor. Any state contractor or prospective state contractor which fails to make reasonable efforts to comply with the provisions requiring notice to its principals of these prohibitions and the possible consequences of their

violations may also be subject to civil penalties of \$2000 or twice the amount of the prohibited contributions made by their principals.

**Criminal penalties**—Any knowing and willful violation of the prohibition is a Class D felony, which may subject the violator to imprisonment of not more than 5 years, or \$5000 in fines, or both.

### **Contract Consequences**

Contributions made or solicited in violation of the above prohibitions may result, in the case of a state contractor, in the contract being voided.

Contributions made or solicited in violation of the above prohibitions, in the case of a prospective state contractor, shall result in the contract described in the state contract solicitation not being awarded to the prospective state contractor, unless the State Elections Enforcement Commission determines that mitigating circumstances exist concerning such violation.

The State will not award any other state contract to anyone found in violation of the above prohibitions for a period of one year after the election for which such contribution is made or solicited, unless the State Elections Enforcement Commission determines that mitigating circumstances exist concerning such violation.

Additional information and the entire text of P.A 07-1 may be found on the website of the State Elections Enforcement Commission, [www.ct.gov/seec](http://www.ct.gov/seec). Click on the link to "State Contractor Contribution Ban."

### **Definitions:**

"State contractor" means a person, business entity or nonprofit organization that enters into a state contract. Such person, business entity or nonprofit organization shall be deemed to be a state contractor until December thirty-first of the year in which such contract terminates. "State contractor" does not include a municipality or any other political subdivision of the state, including any entities or associations duly created by the municipality or political subdivision exclusively amongst themselves to further any purpose authorized by statute or charter, or an employee in the executive or legislative branch of state government or a quasi-public agency, whether in the classified or unclassified service and full or part-time, and only in such person's capacity as a state or quasi-public agency employee.

"Prospective state contractor" means a person, business entity or nonprofit organization that (i) submits a response to a state contract solicitation by the state, a state agency or a quasi-public agency, or a proposal in response to a request for proposals by the state, a state agency or a quasi-public agency, until the contract has been entered into, or (ii) holds a valid prequalification certificate issued by the Commissioner of Administrative Services under section 4a-100. "Prospective state contractor" does not include a municipality or any other political subdivision of the state, including any entities or associations duly created by the municipality or political subdivision exclusively amongst themselves to further any purpose authorized by statute or charter, or an employee in the executive or legislative branch of state government or a quasi-public agency, whether in the classified or unclassified service and full or part-time, and only in such person's capacity as a state or quasi-public agency employee.

"Principal of a state contractor or prospective state contractor" means (i) any individual who is a member of the board of directors of, or has an ownership interest



of five per cent or more in, a state contractor or prospective state contractor, which is a business entity, except for an individual who is a member of the board of directors of a nonprofit organization, (ii) an individual who is employed by a state contractor or prospective state contractor, which is a business entity, as president, treasurer or executive vice president, (iii) an individual who is the chief executive officer of a state contractor or prospective state contractor, which is not a business entity, or if a state contractor or prospective state contractor has no such officer, then the officer who duly possesses comparable powers and duties, (iv) an officer or an employee of any state contractor or prospective state contractor who has *managerial or discretionary responsibilities with respect to a state contract*, (v) the spouse or a *dependent child* who is eighteen years of age or older of an individual described in this subparagraph, or (vi) a political committee established or controlled by an individual described in this subparagraph or the business entity or nonprofit organization that is the state contractor or prospective state contractor.

"State contract" means an agreement or contract with the state or any state agency or any quasi-public agency, let through a procurement process or otherwise, having a value of fifty thousand dollars or more, or a combination or series of such agreements or contracts having a value of one hundred thousand dollars or more in a calendar year, for (i) the rendition of services, (ii) the furnishing of any goods, material, supplies, equipment or any items of any kind, (iii) the construction, alteration or repair of any public building or public work, (iv) the acquisition, sale or lease of any land or building, (v) a licensing arrangement, or (vi) a grant, loan or loan guarantee. "State contract" does not include any agreement or contract with the state, any state agency or any quasi-public agency that is exclusively federally funded, an education loan or a loan to an individual for other than commercial purposes.

"State contract solicitation" means a request by a state agency or quasi-public agency, in whatever form issued, including, but not limited to, an invitation to bid, request for proposals, request for information or request for quotes, inviting bids, quotes or other types of submittals, through a competitive procurement process or another process authorized by law waiving competitive procurement.

"Managerial or discretionary responsibilities with respect to a state contract" means having direct, extensive and substantive responsibilities with respect to the negotiation of the state contract and not peripheral, clerical or ministerial responsibilities.

"Dependent child" means a child residing in an individual's household who may legally be claimed as a dependent on the federal income tax of such individual.

"Solicit" means (A) requesting that a contribution be made, (B) participating in any fund-raising activities for a candidate committee, exploratory committee, political committee or party committee, including, but not limited to, forwarding tickets to potential contributors, receiving contributions for transmission to any such committee or bundling contributions, (C) serving as chairperson, treasurer or deputy treasurer of any such committee, or (D) establishing a political committee for the sole purpose of soliciting or receiving contributions for any committee. Solicit does not include: (i) making a contribution that is otherwise permitted by Chapter 155 of the Connecticut General Statutes; (ii) informing any person of a position taken by a candidate for public office or a public official, (iii) notifying the person of any activities of, or contact information for, any candidate for public office; or (iv) serving as a member in any party committee or as an officer of such committee that is not otherwise prohibited in this section.

## INSTRUCTIONS TO BIDDERS

### IB 1.01 General

These instructions to bidders are for the complete project known as: **HVAC Duct File Rated Access Panels**. The project will be bid in strict accordance with the specifications as prepared by the Connecticut Department of Developmental Services and procedures set fourth by the Department of Public Works. The amount of each bid shall be deemed to include the entire cost and expense of every item of labor and material necessary to complete the work bid upon, in full detail, ready for use. The risk of all such costs and expenses shall be assumed by the successful bidder.

It is the intent of the specifications to call for finished work, tested, and ready for operation and use. Any incidental accessory necessary to make the work complete in all respects and ready for operation, even if not particularly specified, shall be provided without extra compensation. Minor products or items of work, which by custom are not usually shown or specified, but are necessary for proper installation and operation of the completed work, shall be provided in the same manner as if actually shown or specified.

During construction in a Developmental Services facility, there may be delays due to various safety or security issues. This needs to be taken into consideration in your submitted bid. The Department of Developmental Services will not authorize extra compensation for these delays. The department will assign a facility representative to work with the selected contractor as liaison.

#### **Facility Representative:**

**Robert Klingner**  
**Tel. #203-806-8762**  
**Fax #203-271-1352**  
**Email Address: [Robert.Klingner@ct.gov](mailto:Robert.Klingner@ct.gov)**

#### **Agency Representative:**

**Jeffrey Cyr**  
**Director of Engineering**  
**Tel. #860-418-6031**  
**Fax #860-418-6001**  
**Email Address: [jeff.cyr@po.state.ct.us](mailto:jeff.cyr@po.state.ct.us)**

### IB 1.02 Bid Form and Acceptance

1. All bids must be **received** by the date and time specified at the office of **Lauren Marziarz, FAO** at the following address:

**Telephone # 203-806-8819**  
**DDS West Region Cheshire Center**  
**Business Office**  
**25 Creamery Road**  
**Cheshire, CT 06410**

It is recommended that you call prior to the bid opening to verify that your bid has been received.

2. Bid envelopes must clearly indicate the project number as well as the date and time of bid opening. Any correspondence shall include the project number and project title.
3. Enclosed with this specification is a BID FORM on which bids must be submitted.
4. The project shall be bid on the enclosed BID FORM as follows:
  - a. Base Bid - complete as described herein.
  - b. Supplemental Bid (if any) - complete as described herein. (Supplemental Bids may be accepted or not accepted by the agency, however if accepted the low bid will be determined by the total of the base bid and the supplemental bid(s).)
  - c. All BID FORMS shall be signed by a person duly authorized to sign bids on behalf of the bidder. Unsigned bids will be rejected.
  - d. Contractors failing to provide supplemental bids shall be deemed non-responsive and will be disqualified.
5. If you do not wish to submit a bid, return the BID FORM with the indication "No Bid Submitted," as well as a brief indication why.
6. The contract will be awarded to the lowest qualified bidder within the Agencies budget figure.
7. The Department of Developmental Services shall have the right to accept or reject the bids within ninety (90) calendar days of the bid opening date. All bid prices must be firm for this ninety (90) day period.

**IB 1.03 Phasing Plan**

Please refer to phasing plan within technical specifications.

**IB 1.04 Scope of Work**

Furnish all required labor, equipment, services, and materials necessary to complete all work as specified in the technical specifications section. Remove all debris created by this contract.

**IB 1.05 Location and Examination of Site**

1. The work will be performed at: Migeon CLA, 263 Migeon Ave. Torrington, CT  
Tunick CLA, 660 East Main St. Torrington, CT
2. All contractors bidding for this project are required to visit and examine the site before bidding, and to verify

job conditions and dimensions. Time, date, and location of pre-bid meeting are as noted on bid package cover sheet. **Bids received from non-attending contractors will not be honored.**

This meeting is intended to review the project requirements and answer any questions that interested contractors may have about this project. Failure to attend this meeting will result in the rejection of your bid.

**IB 1.06 Contractor Qualification Requirement**

The contractor shall demonstrate capability to execute this contract by submitting evidence of the following:

1. Valid Connecticut license(s), if required, to perform the required work.
2. Listing of two projects of similar scope and size that were performed within the last 18 months. Include the name, address and telephone number of a contact at each job that can be contacted and who is familiar with the project.

**IB 1.07 Protection of Work and Property**

1. All building equipment, furnishings, grounds landscaping, etc., shall be protected from damage of every description and any such damage thereto shall be repaired or otherwise made good at no expense to the State and to the satisfaction of the Facility Representative.
2. Supply and install any and all protective coverings and barricades necessary to protect at all times the public and building personnel from injury.
3. The contractor shall be held responsible for, and must make good at his own expense, any water damage or any other cause of damage due to improper protection.
4. Due to the nature of this institution, it is mandatory that all rules and regulations be strictly adhered to and the necessary precautions taken.
5. The contractor shall, during the progress of the construction, assume all responsibilities for loss or damage by fire to the work included in his contract until completion of the contract. No flammable material shall be stored in the structure in excess of the amounts allowed by the authorities.
6. The contractor is responsible to assure that all work is performed in accordance with all current State regulations including, but not limited to, OSHA, State Fire Codes, and the Basic Building Code of the State of Connecticut.
7. The contractor will at all times keep the premises free from the accumulation of waste materials or rubbish caused by his employees or work. All accumulated material shall be removed from the site daily at the contractors expense.

## **IB 1.08 Form of Guarantee--Warranty**

The General Contractor will furnish the foregoing documents in the following manner:

1. Address to:

**DDS West Region Cheshire Center  
25 Creamery Road  
Cheshire, CT 06410  
Attn: Robert Klingner, Plant Facilities Engineer**

2. Provide project name and number of project.

3. I (we) hereby guarantee, (or warranty), the work on the referenced project for a period of one (1) year from the Facility's approved completion date, against failures of workmanship and materials, unless otherwise noted on specifications. The completion date shall be the date of final payment is received by the contractor.

4. All guarantees supplied by subcontractors, suppliers or manufacturers will be countersigned by the General Contractor.

## **IB 1.09 Time of Completion**

The contractor shall complete the project within the number of calendar days identified on page 1 of the BID FORM. Calendar days begin on the day of issuance of purchase order. Once on site, the contractor's work force shall remain mobilized until work is completed unless otherwise is specifically approved by the facility representative, in writing. Crews and material deliveries are to be scheduled to meet the completion date. If due to unforeseeable circumstances the work is not complete at the specified completion date, the contractor must obtain written permission from the facility representative and a new mutually agreed upon completion date must be established, or, liquidated damages, as described in section IB 1.17 will become effective. Working days for this project shall be Monday through Friday, exclusive of State or National Holidays. No Saturday or Sunday work shall be allowed without special written permission by the facility representative. Upon completion of the contract, the contractor shall make a request to the Facility Representative to schedule a final inspection of the work.

## **IB 1.10 Wage Rates**

Prevailing wage rates are applicable if the submitted bid exceeds the sum of \$400,000.00 (for new construction) or \$100,000.00 (if renovation/alteration/ repair or improvement). New construction is defined as building an entire "brand new" building. The contractor is responsible for assuring that the payment of wages are as published by the Connecticut State Labor Department for the area where the job is being performed.

In accordance with the provisions of Section 31-53 of the General Statutes of Connecticut, the following applies "The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in subsection (h) of this section (31-53 of the General Statutes), shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee

welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day."

#### **IB 1.11 Bonds**

1. A bid surety of not less than 10% of bid amount is required to accompany bid in the form of a bond or certified check made out to the Comptroller of the State of Connecticut if bid exceeds \$10,000.
2. A performance, and labor and material payment, surety of not less than 100% of bid amount is required of low bidder in the form of a bond made out to the Comptroller of the State of Connecticut if bid exceeds \$50,000. It is to be submitted to the Department of Developmental Services business office representative prior to award of contract and issuance of purchase order.
3. Such checks or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining checks or bid bonds will be returned promptly after the awarding authority and the accepted bidder have executed contract, or, if no award has been made within 60 days after the date of the opening of bids, upon demand of the bidder so long as he/she has not been notified of the acceptance of his/her bid.
4. NONRESIDENT (out of State) CONTRACTOR BOND - In order for final payment to be processed to a nonresident contractor, a certificate from the Commissioner of Revenue Services must be provided which evidences that Connecticut General Statutes Section 12-430 for non-resident contractors has been met. For details concerning the filing of this 5% Guarantee Bond with the Department of Revenue Services (DRS), call the DRS at (860) 541 7538.

#### **IB 1.12 Insurance**

1. The Contractor shall not start work under this contract until he has obtained the following insurance and until the insurance has been approved by the owner nor shall the contractor allow any subcontractor to start work until insurance required by the subcontractor has been obtained and approved. The contractor shall send certificate for the insurance to the business office representative.
2. The Contractor shall take out and maintain during the life of the contract, workers' compensation insurance for all employees working at the site and, in case any work is sublet, the Contractor shall require the subcontractor to provide workers' compensation insurance for all of the latter's employees. In case any class of employees engaged in hazardous work under this Contract is not protected under the workers' compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, insurance for those employees.
3. The Contractor shall take out and maintain during the life of a contract, public liability and property damage insurance to protect him/her and the owner's interest as their interests may appear. Each subcontractor shall take out and maintain insurance to protect him/her from claims for damage for injury, including accidental death and from claims for property damage which may arise from operations under this contract, whether such operations be by himself/herself or by any subcontractor or by any employee unless such employees are covered by the protection afforded by the Contractor. Types and amounts of insurance required shall be as follows:

<b>DESCRIPTION</b>	<b>COVERAGE</b>	<b>SINGLE LIMIT</b>	<b>EACH ACCIDENT</b>	<b>AGGREGATE</b>
Protective Liability	BI	\$1,000,000		
Protective Liability	PD (for and in the name of the State of Connecticut)	\$100,000		\$500,000

<b>DESCRIPTION</b>	<b>COVERAGE</b>	<b>SINGLE LIMIT</b>	<b>EACH ACCIDENT</b>	<b>AGGREGATE</b>
Contractor's Liability	BI	\$1,000,000		
Contractor's Liability	PD	\$100,000		\$500,000
Contractor's Protective Liability	BI	\$1,000,000		
Contractor's Protective Liability	PD	\$100,000		\$500,000

4. Coverage for damage or loss resulting from Type C - Collapse or Structural Injury, Type U - Underground Damage, Type X - explosion or blasting, ordinarily excluded from coverage, shall be provided in the amounts and manner specified in this article if required in the bid for the specified project. Builders Risk insurance, not ordinarily required, shall be provided in accordance with the amount and manner specified in the bid for the specified project if such insurance is required in the bid.

**IB 1.13 Licenses**

It is the responsibility of the contractor to secure all licenses, permits, approvals, or other documents necessary to complete this project.

**IB 1.14 Security**

The contractor must abide by all security regulations as described in or attached to this documentation.

**IB 1.15 Start of Work**

The contractor will not start work or order materials before receipt of a fully executed and approved purchase order. Within two (2) working days after receipt of the purchase order and prior to the start of construction, the contractor shall schedule a pre-construction meeting with the facility representative and at that time a start date will be established. The contractor shall begin construction within ten (10) working days. Working days shall be considered as Monday through Friday.

**IB 1.16 Payment**

- a. Projects under \$25,000.00 - A single invoice shall be submitted by the prime contractor following the acceptance of the completed project.
- b. Projects \$25,000.00 or greater - Three invoices shall be submitted by the prime contractor; one when all material or equipment is on site or the project is 50% completed (which ever occurs first), two when the project is substantially complete, and three when the project is totally complete and accepted.
- c. The invoice shall contain the State Purchase Order number and project number. Invoices received without reference to a valid State Purchase Order number and project number will result in delay of payment
- d. NONRESIDENT (out of State) CONTRACTOR BOND - In order for final payment to be processed to a nonresident contractor, a certificate from the Commissioner of Revenue Services must be provided which evidences that Connecticut General Statutes Section 12-430 for non-resident contractors has been met. For details concerning the filing of this 5% Guarantee Bond with the Department of Revenue Services (DRS), call the DRS at (860) 541 7538.

**IB 1.17 Liquidated Damages**

It is hereby declared and agreed by and between the contractor and the owner that the date of commencement, rate of progress, and time of completion of the work are essential provisions, conditions and that it would be impracticable and impossible to determine and ascertain the actual damages the owners would incur by reason of a delay in the completion of the work. It is, therefore, covenanted and agreed by and between the contractor and owner that the contractor shall and does hereby agree to pay the owner as liquidated damages (and not as a penalty) the sum of two hundred dollars (\$200.00) for each and every working day that the contractor shall be in default, hereunder for failing to complete the project within the time of completion specified above except as such date shall be extended, in writing upon request of the contractor, for the period of an excusable delay. Any such payments due to the owner by the contractor may be deducted by the owner from any sums due to the contractor.



**IB 1.18 RECEIPT OF BIDS**

BIDS SHALL BE PLACED IN SEALED ENVELOPES MARKED "SEALED BID OPENING, PROJECT #**BI-DMR-495 Roofing Project** " AND DELIVERED/RECEIVED PRIOR TO THE BID OPENING DATE AND TIME LISTED ON THE COVER SHEET.

DELIVER TO:

**DDS West Region Cheshire Center  
Business Office  
25 Creamery Road  
Cheshire, CT 06410  
Attn: Lauren Marziaz, FAO**

End of Section Revised Date: 10/2008

**GENERAL CONDITIONS**

## **GC 1.01 General**

In addition to the conditions in the Instructions to Bidders, the following General Conditions shall apply and form an equal part of the contract documents.

## **GC 1.02 Use of the Premises**

1. Nothing contained in the Specifications shall be interpreted as giving the Contractor exclusive use of the premises where the work is performed.
2. The Contractor shall be held solely responsible for any damage to the existing structures, systems, equipment and site caused by them or by their employees and shall repair or replace same to their original condition as directed by the facility representative at no additional cost to the owner.
3. The work of the contract shall not interfere with the normal conditions and safe operation of the building and site. If such interference appears possible because of construction to existing work or other reasons, the work involved must be done at a time and in a manner directed by the facility representative as a part of the contract.
4. The contractor shall supply and install any and all protective coverings and barricades necessary to protect at all times the clients, public and building personnel from injury and the building from damage. The contractor shall provide and install all plastic sheeting, and other materials, which he/she may require to protect all open, unfinished work at the end of each and every day.
5. The contractor shall secure unfinished work areas at the close of business each day to preclude passage by any and all unauthorized persons.
6. No flammable material shall be stored in the structure in excess of the amounts allowed by the fire codes and authorities. No gasoline shall be stored within the building.
7. Protection of building, building occupants and visitors.
  - a. Construct barriers to prevent dust from construction areas from entering client areas. Barriers must be impermeable to fungal spores and in compliance with local fire codes.
  - b. Seal off and block return air vents if rigid barriers are used for containment.
  - c. Implement dust control measures on surfaces and divert pedestrian traffic away from work zones.
  - d. If necessary, create negative air pressure in work zones adjacent to client care areas and insure that required engineering controls are maintained. Monitor negative airflow.
  - e. Direct pedestrian traffic away from construction zones.
  - f. Provide construction crews with: Designated entrances, corridors and elevators if possible,

- g. Contractor shall clean work zones and their entrances daily.
- h. Contractor shall cover and secure debris prior to removal from the construction area.
- i. In client care areas, for major repairs that include removal of walls and disruption of the space within, the contractor shall use plastic sheets or prefabricated plastic units to contain dust and a HEPA (High Efficiency Particulate Air) filter machine to clean the air.

**GC 1.03 Storage or Equipment and Materials**

1. All deliveries of material, equipment, etc., shall be made to the contractor and accepted only by him/her and only during working hours. Department of Developmental Services personnel will not receive or accept any materials or equipment, etc. at any time.
2. The contractor shall secure instructions from the facility representative's as to available space for storing materials, tools, etc. If adequate space is not available, he/she shall provide his/her own storage facilities and in all cases be responsible for its protection.
3. All materials used throughout work shall be neatly stacked so as not to obstruct traffic, or the progress of the work.
4. All materials delivered to the job site will be protected by the contractor from weather damage, loss, or vandalism.

**GC 1.04 Codes, Rules, Ordinances and Approvals**

1. All materials furnished and all work installed shall comply with the rules and recommendations of the State of Connecticut; and must comply with all applicable State and local code, laws, ordinances, rules and regulations, with all requirements of local utility companies, and with the recommendations of the Insurance Rating Organization having jurisdiction.
2. It is intended that the technical specifications not violate any of the above. Where violations occur, such codes, laws, rules, ordinances, regulations and recommendations shall be complied with. The contractor must call any such violations to the attention of the Department of Developmental Services facility representative before making any changes to the specifications or proceeding with the work.
3. The Contractor shall, at his expense, give all notices, obtain all permits, licenses, approvals, fees and other costs in connection with the work and obtain all required certificates of inspection for the work and deliver same to the Department of Developmental Services facility representative before requesting acceptance and final payment.
4. All apparatus, equipment, such as ladders, scaffolding, chutes, etc., shall comply with the recommendations of the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America, OSHA, and approved revisions.
5. The contractor must at all times maintain a fire safe environment. Fire extinguishers are to be provided by

the contractor, at all work sites, of the size and type required for the work being performed. Sprinkler and alarm systems are not to be shut down or impaired without the approval of the facility representative. Welding will only be performed by certified welders. When welding is being performed there is to be a fire watch provided with extinguishing equipment at his or her immediate access.

#### **GC 1.05 Salvage and Disposal**

1. All removed materials that are deemed salvageable by the facility representative are the property of the facility (State of Connecticut). The facility's representative will direct which materials the facility will retain and which material the contractor shall retain and/or dispose of. Facility retained material is to be relocated by the contractor to an area designated by the facility's representative at the contractor's expense.
2. All debris resulting from the performance of this contract will be the property of the contractor and will be completely removed from the facility daily. All permits, manifests, fees or other requirements for the proper disposal of such debris is the sole responsibility of the contractor. If a hazardous material is involved, copies of manifest slips must be provided to the facility representative.
3. Chutes and dumpster type containers designed to keep dust and spillage to a minimum will be supplied and used by the contractor at his/her own expense.

#### **GC 1.06 Maintenance of Utilities**

1. The Department of Developmental Services has the responsibility for the operation of the entire utility distribution system. Any operation or function in relation to the work which could render said system(s) inoperable shall be coordinated, upon notification by the contractor, by the facility representative. All operational changes shall be made in this manner.
2. When installation of new work requires the temporary shutdown of an existing operating system, the connection of the new work shall be performed at such time as designated by the facility representative. The facility representative reserves the right to limit the shutdown time to a specified number of net hours and set the date and time of each occasion of complete shutdown. Notify facility representative of the estimated duration of the shutdown period at least seven (7) days in advance of the date the work is to be performed.
3. Any shutdown to the service which will interrupt critical operations shall be protected by the provision of a safe and adequate temporary means of service replacement, supplied at the contractor's expense, which shall be removed when no longer required. The contractor shall insure all tools, supplies, equipment and labor is on hand and in position to start the moment the shutdown period is made available to him.

#### **GC 1.07 Change Orders**

1. No additional compensation or time shall be granted beyond that noted on the original purchase order, unless approved in writing by the **Agency Representative**.
2. The Department of Developmental Service's **Agency Representative** is identified on the invitation to

bid section. Changes, proceeds, or approvals from others will not be honored.

**GC 1.08 Shop Drawings**

1. Shop drawings shall be submitted as required to the facility representative and/or as noted on the plans and technical specifications.
2. The contractor shall make any corrections required by the facility representative at no additional cost to the state and submit 2 corrected copies to the facility representative.
3. It is the contractor's responsibility to flag deviations from the contract documents. An approval will not be considered an acceptance of the deviation unless it has been explicitly and clearly identified in writing.

**GC 1.09 Substitutions**

If substitutions are permitted, it is the responsibility of the contractor to provide the necessary documents to prove that the product is equal to that specified. These documents must be received by the facility representative for his approval/disapproval prior to the date stated on the front cover sheet.

**GC 1.10 Quality Control**

1. Comply with manufacturer's recommendations and association or trade instructions and specifications for storage, use, and installation of their products. All materials and equipment shall be installed in strict accordance with the manufacturer's recommendations. This shall include any and all steps, treatments, or maintenance required before placing into use or placing into service.
2. Comply with instructions in full detail, including each step in sequence. Should instructions conflict with contract documents, request clarification from facility representative before proceeding.
3. When instructed by facility representative, submit manufacturer's data sheets, including instructions and recommendations.
4. If substitutions are permitted, it is the responsibility of the contractor to provide the necessary documents to prove that the product is equal to what is specified. These documents must be received by the facility representative for his approval/disapproval prior to use.

**GC 1.11 Owners Right to Stop Work or terminate Contract**

1. The owner has the right to stop work and/or terminate this contract under any or all of the following conditions:
  - a. If the contractor shall be adjudged bankrupt or make an assignment for the benefit of creditors.

- b. If a receiver or liquidator shall be appointed for the contractor or for any of his property and shall not be discharged within 20 days after such appointment or the proceedings in connection therewith shall not be stayed on appeal within the said 20 days.
  - c. The contractor shall refuse or fail, after written notice of warning from the Agency Representative, to supply sufficient properly skilled workmen or proper materials.
  - d. The contractor shall refuse or fail to prosecute the work under this contract or any part thereof with such diligence as will insure it's completion within the period herein specified (or any duly authorized extension thereof) or shall fail to complete the work within said period.
  - e. The contractor shall fail to make due and proper payment to persons supplying labor and/or materials for the work under this contract.
  - f. The contractor shall fail or refuse to regard laws, ordinances or the instructions of the Agency Representative or otherwise be in substantial violation of any provisions of this contract, then the owner, without prejudice to any other rights or remedies it may have, may, with 7 days written notice to the contractor, terminate the employment of the contractor and his right to proceed and may take possession of the work under this contract and complete the work by contract or otherwise, as the owner may deem appropriate and expedient.
2. If the right of the contractor to proceed with the work is so terminated the owner may take possession of and utilize in completing the work under this contract such materials, appliances, supplies, plant and equipment as may be on the site of the work and necessary therefore.

6/2007

END OF SECTION

## COMPLIANCE WITH EXECUTIVE ORDERS

This contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill promulgated June 16, 1971, and, as such, this contract may be cancelled, terminated or suspended by the State Labor Commissioner for violation of or non compliance with said Executive Order No. Three, or any state or federal law concerning nondiscrimination, notwithstanding, that the Labor Commissioner is not a party to this contract.

The parties to this contract, as part of the consideration hereof, agree that said Executive Order No. Three is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive order and agree that the State Labor Commission shall have continuing jurisdiction in respect to contract performance in regard to nondiscrimination, until the contract is completed or terminated prior to completion.

The contractor, agrees as part consideration hereof, that this contract is subject to the Guidelines and Rules issued by the State Labor Commissioner to implement Executive Order No. Three, and that he will not discriminate in his employment practices or policies, will file all reports as required, and will fully cooperate with the State of Connecticut and the State Labor Commissioner.

This contract is also subject to provisions of Executive Order No. Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973, and, as such, this contract may be cancelled, terminated or suspended by the contracting agency or the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Seventeen, notwithstanding that the Labor Commissioner may not be a party to this contract.

The parties to this contract, as part of the consideration hereof, agree that Executive Order No. Seventeen is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the contracting agency and the State Labor Commissioner shall have joint and several continuing jurisdiction in respect to contract performance in regard to listing all employment openings with the Connecticut State Employment Service.

## **Executive Order No. 7C**

This Contract is subject to **Executive Order No. 7C of Governor M. Jodi Rell, promulgated on July 13, 2006.** The Parties to this Contract, as part of the consideration hereof, agree that:

a. The State Contracting Standards Board (“Board”) may review this contract and recommend to the state contracting agency termination of this contract for cause. The State contracting agency shall consider the recommendations and act as required or permitted in accordance with the contract and applicable law. The Board shall provide the results of its review, together with its recommendations, to the state contracting agency and any other affected party in accordance with the notice provisions in the contract not later than fifteen (15) days after the Board finalizes its recommendation. For the purposes of this Section, “for cause” means:

(1) a violation of the State Ethics Code (Chapter 10 of the general statutes) or section 4a-100 of the general statutes or

(2) wanton or reckless disregard of any state contracting and procurement process by any person substantially involved in such contract or state contracting agency.

b. For purposes of this Section, “contract” shall not include real property transactions involving less than a fee simple interest or financial assistance comprised of state or federal funds, the form of which may include but is not limited to grants, loans, loan guarantees, and participation interests in loans, equity investments and tax credit programs. Notwithstanding the foregoing, the Board shall not have any authority to recommend the termination of a contract for the sale or purchase of a fee simple interest in real property following transfer of title.

c. Notwithstanding the contract value listed in sections 4-250 and 4-252 of the Connecticut General Statutes and section 8 of Executive Order Number 1, all State Contracts between state agencies and private entities with a value of \$50,000 (fifty thousand dollars) or more in a calendar or fiscal year shall comply with the gift and campaign contribution certification requirements of section 4-252 of the Connecticut General Statutes and section 8 of Executive Order Number 1. For purposes of this section, the term “certification” shall include the campaign contribution and annual gift affidavits required by section 8 of Executive Order Number 1.



# **TECHNICAL SPECIFICATIONS**

## **SCOPE OF WORK**

**State of Connecticut  
Department of Developmental Services  
West Region Community Division  
25 Creamery Rd.  
Cheshire, Ct 06410**

**Project Number: BI-DMR-541**

**Project Title: Roofing Project  
Migeon CLA, 263 Migeon Ave. Torrington, CT**

**&**

**Tunick CLA, 660 East Main St. Torrington, CT**

Prepared By:

Robert Klingner Facilities Manager DDS West Region

May 29, 2008

Division 1  
General Requirements  
Section 01010  
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Supplementary General Conditions

**PART 1 GENERAL**

**SUMMARY OF WORK**

- 1.01 The Contract in connection with Project NO. 541  
Includes the complete Roof Replacement work designated at;
1. Migeon Ave CLA 263 Migeon Ave. Torrington, Ct. 06790
    - a. Includes detached garage, dormers and entrance way "Flat roof."
  2. Tunick CLA 660 East Main St. Torrington, Ct. 06790
    - a. Includes detached garage, dormers and entrance way "Flat roofs." IE All roofing on structures

- 1.02 The Contractor awarded the contract shall be responsible for the entire project.

The nature of this project requires the work of various trades including but not limited to: Demolition, Roofing, Carpentry, Sheet Metal, Painting, Electrical, and related trades as may be required to complete the project. The Contractor shall provide the services of any and all trades as may be required to complete the work. All such costs shall be included in the Contractor's bid.

- 1.03 The work includes:
- A. Removal of existing Cedar tree at Migeon location. To ground level. All waste removed from premises.
  - B. Removal of: existing roofing systems down to decking
  - C. Preparation of decking for new roofing systems
  - D. Installation of New GAF Grand Slate Designer Lifetime Roofing Systems on Main Roofs and Shed / Garage Roofs.
  - E. Installation of a New GAF membrane system on low slope roofs, eaves and valleys.
  - F. Installation of new GAF Ridge Vent System on main roofs.
  - G. As indicated in Roof Schedule: Removal of existing aluminum / vinyl soffit and wood soffit and installation of new perforated soffit system to equalize air flow at ridge vent in accordance with GAF installation manual. (Enclosed)
  - H. Installation by GAF Master Elite® Contractor

- I. Utilize AZEK (see attached spec) brand composite for all Fascia, Trim, Soffit, Rake and Freeze boards. BOTH LOCATIONS
  - J. Utilize AZEK (see attached spec) brand composite materials or approved equal to duplicate, front of building, street sides only “Dental style trim appearance. Front Migeon, front and sides Tunic. Will be clearly pointed out at pre-bid.
  - K. At Migeon Ave; Abandon existing “Yankee Gutter Systems” in favor of traditional specified gutter system. Yankee Gutter system is to be covered over / concealed in a weather tight fashion.
- 
- I. Contractor to provide Agency with a FIFTY (50) Year Golden Pledge Warranty for materials and labor.

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Page 2 of 3

**PART 2 PRODUCTS**

- 2.01 Manufacturer GAF Materials Corporation
- 2.02 Accessories – manufactured by or approved by GAF to be compatible with roofing system and roofing system warranty.

**PART 3 EXECUTION**

- 3.01 Demolition and installation of roofing and ventilation systems shall be in strict conformance to GAF Materials Corporation installation manuals.
- 3.02 Provide a copy of all installation manuals to Agency Representative prior to Pre-construction meeting.
- 3.03 Remove existing roofing systems to decking including: ALL Existing vent boots, flashings, counter flashings and accessories at all existing roof penetrations and wall/ roof flashings, chimney flashing and counter flashings.
- 3.04 Provide and install new vent boots, flashings, counter flashings and accessories at all existing roof penetrations and wall/ roof flashings, chimney flashing and counter flashings and Roofing System.
- 3.05 The Contractor shall be responsible to remove existing siding, and building materials as may be required to provide for proper installation of flashings and counter flashings.

Division 1  
General Requirements  
Section 01010  
Page 3 of 3

- 3.06 The Contractor shall be responsible to provide and install new siding and building materials to match the existing at areas that receive new flashings. Installation shall be in strict conformance to material manufacturer's installation manual.
- 3.07 ALL WORK SHALL BE COMPLETED TO ENSURE A WATERTIGHT AND WEATHER TIGHT INSTALLATION.
- 3.08 PROTECTIVE COVERINGS

The Contractor must have at the work site a sufficient amount of moisture-proof covering and fasteners to provide quick temporary protection to any roof in the event of a rapid change in weather.

THE CONTRACTOR SHALL FULLY PROTECT ALL PARTS OF THE ROOFS AGAINST DAMAGE UNTIL FINAL ACCEPTANCE BY THE AGENCY REPRESENTATIVE. ALL WATER DAMAGE DUE TO ANY AND ALL LEAKS, OR ANY OTHER TYPE OF DAMAGE SHALL BE REPLACED WITH NEW WORK BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

This includes but not limited to: replacement of building materials, finishing the same with appropriate finish to match the surrounding areas including paint and trim.

The Contractor shall be responsible to repair or replace as directed by the Agency Representative any other damage of all descriptions including but not limited to: damaged furniture, carpeting, wall paper, personal property and related items.

Repairs and replacement of damaged items shall be made by the Contractor at no expense to the Agency. As a condition of payment, the Contractor shall complete all such repairs or replacement to the satisfaction of the Agency Representative.

3.09 TEMPORARY SANITARY FACILITIES

- A. The Contractor shall provide for the use of all personnel, where directed, adequate temporary sanitary facilities, service and maintenance, such as chemical toilets, temporary wash basins, and water supply, toilet tissue, soap and paper towels.

3.10 OSHA REGULATIONS FALL PROTECTION

It is understood that the Contractor shall comply with all OSHA regulations including but not limited to 29 CFR 1925 Fall Protection

END OF SECTION

DIVISION 6  
CARPENTRY  
SECTION 06000  
Page 1 of 1

**PART 1 GENERAL**

1.01. The work under this section consists of the furnishing of all labor, materials, services and equipment to properly complete all items of work described in the specifications, plans or reasonably implied.

1.02 DESCRIPTION OF WORK

Work includes carpentry and related work through out the project. Carpentry is performed for coordination of the work, to uncover work for access or inspection, to permit alterations to be performed or for other similar purposes. Do all cutting, patching and related work necessary for installation of items and completion of the work.

**PART 2 PRODUCTS**

- A. General - Except as otherwise noted, use materials for cutting and patching that are identical to existing materials or specified by latest code.
- B. Fasteners: Standard items of sufficient strength for intended use. Fasteners subjected to moisture shall be hot-dip galvanized, stainless steel or other non-corrosive material.

**PART 3 EXECUTION**

- A. Verify all dimension and conditions in the field. Be responsible for the correctness of all fitting and the proper attachment of all carpentry, and provision for proper attachment of work, and related work of other trades.
- B. Perform all carpentry required for temporary work.
- C. As directed by the Plant Facilities Manager, provide temporary enclosure consisting of temporary walls and doors to protect building exterior and or to prevent access to the structures.
- D. All temporary work and protection shall be removed from the job at its completion.
- E. Nailers, and blocking - Furnish and install all necessary blocking, nailers, etc., of sizes and shape required to bring finished work to proper position and to afford good solid fastenings for all work and equipment of all trades, including but not limited to; Sheet Metal, Mechanical and Electrical.
- F. Provide related work as required
- G. CLEANING
  - 1. The contractor shall at all times keep the premises free from surplus material and rubbish. At the completion of the work, the contractor shall remove his entire plant and equipment and shall remove all rubbish, waste, and surplus materials. He shall leave the premises broom clean.

END OF SECTION

DIVISION 7  
MOISTURE PROTECTION  
SHINGLES  
SECTION 07310  
Page 1 of 8

**PART 1 GENERAL**

1.01 SECTION INCLUDES

- A. Asphalt roofing shingles
- B. Leak barrier and deck protection.
- C. Metal flashing associated with shingle roofing.
- D. Attic Ventilation.

1.02 RELATED WORK

- A. Rough Carpentry: Framing, wood decking and roof sheathing.
- B. Flashing and Sheet Metal: Sheet metal flashing not associated with shingle roofing; gutters and downspouts.
- C. Provide and install new vent boots, flashings, counter flashings and accessories at all existing roof penetrations and wall/ roof flashings, chimney flashing and counter flashings and Roofing System.

1.03 REFERENCES

- A. ASTM D 3018 – Standard Specifications for Class A Asphalt Shingles Surfaced with Mineral Granules.
- B. ASTM D 3161 – Standard Test Method for Wind Resistance of Asphalt Shingles (Fan-Induced Method.)
- C. ASTM D 3462 – Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules.
- D. ASTM D 4586 – Standard Specification for Asphalt Roof Cement, Asbestos –Free.
- E. UL 790 – Tests for Fire Resistance of Roof Covering Materials.
- F. UL 997 Wind Resistance of Prepared Roof Covering Materials.
- G. Asphalt Roofing Manufacturers Association (ARMA)
- H. National Roofing Contractors Association (NRCA)

1.04 SUBMITTALS

- A. Submit copies of GAFMC's product data sheets, detail drawings and samples for each type of roofing product.

- B. Submit two (2) copies of manufacturer's installation manual for each product.

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MOISTURE PROTECTION  
SHINGLES  
SECTION 07310  
Page 2 of 8

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Provide all primary roofing products, including shingles, underlayment, leak barrier and ventilation by a single manufacturer.
- B. Installer Qualifications:
  - 1. Installer must be approved for installation of all roofing products to be installed under this section.
  - 2. Installer must be a GAF Master Elite® Contractor as defined and certified by GAFMC.

1.06 REGULATORY REQUIREMENTS

- A. Provide a roofing system achieving an Underwriters Laboratories (UL) Class A fire classification.
- B. Install all roofing products in accordance with all federal, state and local building codes.
- C. All work shall be performed in a manner consistent with current OSHA guidelines.

1.07 PREINSTALLATION MEETING

- A. A Pre-Installation Meeting will be scheduled by the Agency Representative.
- B. Timing: The meeting shall take place prior to the start of the roofing installation.
- C. Attendees: Meeting to be called for by the Manufacturer's certified Contractor. Meeting's mandatory attendees shall include the certified Contractor and the Manufacturer's representative, Agency Representative.
- D. Topics: Certified Contractor and Manufacturer's Representative shall review all pertinent requirements for the project, including but not limited to; scheduling, weather considerations, project duration and requirements for the specified warranty.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Store all products in manufacturer's unopened, labeled packaging until they are ready for installation.
- B. Store products in a covered, ventilated area, at room temperature not more than 110 degrees F (43 degrees C); do not store near steam pipes, radiators or in direct sunlight.



- C. Store bundles on a flat surface. Maximum stacking height shall not exceed GAFMC's recommendations. Store all rolls on end.
- D. Store and dispose of solvent based materials in accordance with all federal, state and local regulations.

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MOISTURE PROTECTION  
SHINGLES  
SECTION 07310  
Page 3 of 8

1.09 WEATHER CONDITIONS

- A. Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with GMAC's recommendations.

1.10 WARRANTY

- A. Provide to the Agency a GAFMC **Golden Pledge®** Fifty (50) Year Warranty.

**PART 2 PRODUCTS**

2.01 MANUFACTURERS

- A. Acceptable Manufacturer: GAF Materials Corporation, 1361 Alps Road, Wayne, NJ 07470. Tel. 1-973-628-3000.

2.02 SHINGLES

- A. Super-Heavyweight, granule surfaced, self-sealing asphalt shingle with a strong fiberglass reinforced Micro Weave® core and a mineral granule surfacing. Architectural laminate styling provides a wood shake appearance with a 5" or 5 5/8" exposure. Meets ASTM D 3018, ASTM d 3161, and ASTM D 3462; UL 790 Class A rated with UL 997 Wind Resistance Label.

- 1. Color: As selected from manufacturer's full range.

2.03 HIP AND RIDGES SHINGLES

- A. High profile self-sealing hip and ridge cap shingle matching the color of selected roof shingle. Each bundle covers approximately 20 linear feet. Distinctive Ridge Cap Shingles, by GAFMC.

2.04 STARTER STRIP

- A. Self-sealing starter course. Each strip measures 7" tall by 36" wide. One bundle covers approx. 33 linear feet. **Weatherstop™ Starter Strips**, by GAFMC.

2.05 LEAK BARRIER

- A. Self-Adhering, self-sealing, bituminous leak barrier surfaced with fine, skid-resistant granules. Each roll

contains approx. 150 sq. ft, 65 lbs (29.9 kg), 36" x 50' or 200 sq. ft, 85 lbs (38.6 kg), 36" x 66.7' .58 mils thick. **WeatherWatch®**, by GAFMC.

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SECTION 07310  
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2.06 SHINGLE UNDERLAYMENT

Water repellent, breather type cellulose/glass fiber composite roofing underlayment. **Shingle-Mate®**, by GAFMC.

2.07 ROOFING CEMENT

- A. General-purpose asphalt roofing cement meeting the requirements of ASTM D 4586, Type I or II. **Leak Buster Matrix Standard Wet/Dry Roof Cement #204**, by BMCA.

2.08 ATTIC VENTILATION

- A. Rigid plastic ridge ventilator designed to allow the passage of hot air from attics while prohibiting snow infiltration. For use in conjunction with eave/ soffit intake ventilation products. Provides 18.5 sq in NVPA per linear foot. Each package contains 48 linear feet of vent. **Cobra® Snow Country™**, by BMCA.
- B. Perforated Soffit Ventilation – manufactured by GAF to match existing.

2.09 NAILS

- A. Standard round wire, zinc coated steel or aluminum; 10 to 12 gauge, barbed or deformed shank, with heads 3/8 inch (9.5 mm) to 7/16 in. (11mm) in diameter. Length must be sufficient to penetrate into solid wood at least 3/4 in. (19mm) or through plywood or oriented strand board by at least 1/8 in.
- B. Copper nails shall be used at all locations where contact with fiber flashing is present.

2.10 METAL FLASHING

- A. 20 oz. Copper sheet, complying with ASTM B 370 chimney flashing, counter flashing, valley flashing.
- B. Aluminum flashing and counter flashing per roofing material manufacturer's installation manual.
- C. Vent Boots – to comply with roof manufacturer's recommendation to insure warranty.

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SECTION 07310  
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**PART 3 EXECUTION**

a. EXAMINATION

A. Do not begin installation until the roof deck has been properly prepared.

b. PREPARATION

A. Remove all existing roofing down to the roof deck.

B. Verify that the deck is dry, sound, clean and smooth. It shall be free of any depressions, waves and projections. Cover with sheet metal, all holes over 1 inch (25mm) in diameter, cracks over ½ inch (12mm) in width, loose knots and excessively resinous areas.

C. Replace damaged deck with new materials.

D. Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

c. UNDERLYMENT APPLICATION

A. General:

1. Install using methods recommended by GAFMC, in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.

B. Eaves

1. Install eaves edge metal flashing tight with fascia boards; lap joints 2 inches (50mm) and seal with plastic cement; nail at the top of the flange.
2. Install eaves protection membrane up the slope from eaves edge a full 36 inches or to at least 24 inches (610mm) beyond the interior “warm wall”. Lap ends 6 inches (150mm) and bond.

C. Valleys:

1. Install eaves protection membrane at least 36 inches wide and centered on the valley. Lap ends 6 inches (150mm) and seal.

2. Where valleys are indicated to be “open valleys” install metal flashing over eaves protection membrane before roof deck underlayment is installed; DO NOT nail through the flashing. Secure the flashing by nailing at 18 inches (457mm) on center just beyond edge of flashing so that the nail heads hold down the edge.

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MOISTURE PROTECTION  
SHINGLES  
SECTION 07310  
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D. Roof Deck

1. Install one layer of roof deck underlayment over the entire area not protected by eaves or valley membrane. Install sheets horizontally so water sheds and nail in place.
2. On roofs sloped at more than 4 in 12, lap horizontal edges at least 2 in. (50mm) and at least 2 in (50mm) over eaves protective membrane.
3. On roofs sloped between 2 in 12 and 4 in 12, lap horizontal edges at least 19 inches (480mm) and at least 19 inches (485mm) over eaves protective membrane.
4. Lap ends at least 4 inches (100mm) Stagger end laps of each layer at least 36 inches (915mm)
5. Lap underlayment over valley protection at least 6 inches (150mm)

E. Penetrations

1. Vent pipes: install a 24 inch (610mm) square piece of eaves protection membrane lapping over roof deck underlayment; seal tightly to pipe.
2. Vertical walls: Install eaves protection membrane from under the built-in counterflashing and 12 inches (305mm) on to the roof surface lap the membranes over the roof deck underlayment.
3. Skylights and roof hatches: Install eaves protection membrane from under the built-in counterflashing and 12 inches (305mm) on to the roof surface lapping over roof deck underlayment.
4. Chimneys: Install eaves protection membrane around entire chimney extending at least 6 inches (150mm) up the wall and 12 inches (305mm) on to the roof surface. Lap the membrane over roof deck underlayment.
5. Rake edges: Install metal edge flashing over eaves protection membrane and roof deck underlayment; set tight to rake boards; lap joints at least 2 inches (50mm) and seal with plastic cement; secure with nails.

d. INSTALLATION OF SHINGLES

A. General:

1. Install in accordance with GAFMC’s instructions and local building codes. When local coeds and application instructions are in conflict, the more stringent requirements shall take precedence.
2. Minimize breakage of shingles by avoiding dropping bundles on edge, by separating shingles carefully (not by “breaking” over ridge of bundles), and by taking extra precautions in

- temperatures below 40 degrees F (4 degrees C).
3. Handle carefully in hot weather to avoid scuffing the surfacing, or damaging the shingle edges.

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SHINGLES  
SECTION 07310  
Page 7 of 8

B. Placement and Nailing:

1. Secure with 4,5 or 6 nails per shingle per GAFMC's instructions or local codes.
2. Placement of nails varies based on the type of shingle specified. Consult the application instructions for the specified shingle details.
3. Nails must be driven flush with the shingle surface. Do not overdrive or underdrive the nails.
4. Shingle offset varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.

C. Valleys Copper

1. Install copper valleys using the "open valley" method:
  - a.) Snap diverging chalk lines on the metal flashing, starting at 3 inches (75mm) each side of top of valley, spreading at 1/8 inch per foot (p mm per meter) to the eaves.
  - b.) Run shingles to chalk line.
  - c.) Trim last shingle in each course to match the chalk line; do not trim shingles to less than 12 inches (305mm) wide.
  - d.) Apply a 2-inch (50mm) wide strip of plastic cement under ends of shingles, sealing them to the metal flashing.

D. Penetrations

1. All penetrations are to be flashed according to GAFMC, ARMA and NRCA application instructions and construction details.
2. Reserved.

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MOISTURE PROTECTION  
SHINGLES  
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e. SECTION 07310

A. Ridge/ Soffit Ventilation

1. Install ridge vent along the entire length of ridges:
  - a.) Cut continuous vent slots through the sheathing, stopping 6 inches (150mm) from each end of the ridge.
2. On the roofs without a ridge board, make a slot 2 inches (50mm) wide, centered on the ridge.  
On roofs with a ridge board, ma
3. VENTILATIONke two slots 1 ¾ inches (42mm) wide, one on each side.
4. Install ridge vent material along the full length of the ridge, including uncut areas.
5. Butt ends of ridge vent material and join using roofing cement,
6. Install eaves vents in sufficient quantity to equal or exceed the ridge vent area.  
Remove existing soffit as required, remove wood soffit in sufficient quantity to equal or exceed the ridge vent area. Provide and install new perforated soffit in sufficient quantity to equal or exceed the ridge vent area.

f. PROTECTION

- A. Protect installed products from foot traffic until completion of the project.
- B. Any roof areas that are not completed by the end of the workday are to be protected from moisture and contaminants.

END OF SECTION

**DIVISION 7**  
**SIDING – SOFFITS – FASCIA – RAKES – CORNICE – TRIM**  
**SECTION 07400**  
**Page 1 of 2**

**PART 1 GENERAL**

1.1 SECTION INCLUDES

- A. Siding – Cornice -Soffits – Fascias – Rakes - Trim and Accessories.
- B. Custom trim shapes made on project site.

1.2 REFERENCES

- A. Manufacturer's installation manuals and product specifications.

1.4 SUBMITTALS

- A. Submit Manufacturer's data sheets on each product to be used, showing compliance with requirements.
- B. Selection Samples: Two complete sets of color cards representing manufacturer's full range of available colors.
- C. Two complete sets of Manufacturer's installation instructions, and manuals showing required preparation and installation procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened labeled packaging until ready for installation.
- B. Store boxes on flat surface to maximum height recommended by manufacturer.

**PART 2 PRODUCTS**

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:  
  
Vinyl Siding – Trim – Fascias – Rakes – Soffits – Accessories:  
CertainTeed Corporation 1.800.233.8990  
  
Weatherside Purity Fiber cement siding and accessories: GAF Corporation
- B. Requests for substitutions will be considered in accordance with provisions of project specifications.

**DIVISION 7**  
**SIDING – SOFFITS – FASCIA – RAKES – CORNICE – TRIM**  
**SECTION 07400**  
Page 1 of 2

**2.2 MATERIALS**

- A. Siding: Match existing
  - 1. Color: match existing.
  - 2. Siding Accessories: match existing.
- B. Fascia: Aluminum sheet, painted before forming; size to match existing – grain embossed, .024 inch (.06 mm) thickness with two coat acrylic finish.
  - Color: match existing.
  - Accessories: match existing.
- C. Aluminum Sheet For Custom Trim Shapes: Tension-leveled aluminum sheet coil, suitable for brake bending in the field.
  - Finish Coating: PVC Striated two coat solvent-based PVC, 3.3 to 3.7 mils (0.084 to 0.094 mm) thick. Sheet thickness 0.021 inch (0.056 mm), nominal.

**2.3 ACCESSORIES**

- A. Fasteners: Galvanized nails or other corrosion-resistant fasteners, as recommended by manufacturer for specific application.
- B. Joint Sealers: As specified per material manufacturer's specifications.

**PART 3 EXECUTION**

**3.1 EXAMINATION** - surfaces on which products are to be installed are weather tight and ready for installation.

- A. Do not begin installation until surfaces have been properly prepared; notify Agency Representative of unsatisfactory preparation before proceeding.

**3.2 INSTALLATION**

- A. Install siding, soffit/trim and accessories in strict accordance with manufacturer's instructions and applicable building codes.
- B. Install products level, plumb and true.
- C. Securely attach products using methods and materials recommended by manufacturer for wind load conditions at project site.

**3.3 CLEANING**

- A. Clean dirt from surface of installed products, using mild soap and water.
- B. Upon completion of installation, remove from project site excess materials and debris caused by the project.

**3.4 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.



END OF SECTION

**DIVISION 7  
MOISTURE PROTECTION  
SEAMLESS GUTTERS & DOWNSPOUTS  
SECTION 07460  
Page 1 of 3**

**PART 1 GENERAL**

1.01. The work under this section consists of the furnishing of all labor, materials, services and equipment to properly complete all items of work described in the specifications, plans or reasonably implied.

1.02 DESCRIPTION OF WORK

- a. Per Roofing Schedule: Remove all existing gutters, downspouts and accessories from buildings and site.
- b. Per Roofing Schedule: Furnish all labor, materials and equipment for a complete new commercial grade seamless gutter and downspout system. .032 Seamless 4” gutters.

1.03 SUBMITTALS

- a. Submit two (2) copies of all manufacturers' installation manuals.
- b. Shop Drawings: Submit line drawing indicating gutter and downspout layout.
- c. Submit certificates of conformance with current Connecticut Basic Building Code: Gutters are sized to meet code requirements for roof size. Downspouts are sized and in sufficient number and locations to meet code requirements.
- d. Submit documentation that system meets or exceeds manufacturer specifications and recommendations: Gutters are sized to meet requirements for roof size. Downspouts are sized and in sufficient number and locations to meet requirements. Gutter Hangers and Downspout brackets are sized and installed to meet manufactures specifications.
- e. Submit samples of all materials and accessories.

**DIVISION 7**  
**MOISTURE PROTECTION**  
**SEAMLESS GUTTERS & DOWNSPOUTS**  
**SECTION 07460**  
**Page 2 of 3**

**PART 2 PRODUCTS**

2.01

- a. All materials and accessories provided by one manufacturer.  
The following manufacturers establish a level of acceptable quality  
Alcoa  
Englert  
or Agency approved alternate.
- b. Gutters, downspouts, hangers and accessories shall be of commercial grade.
- c. Finish: Interior – corrosion resistant finish; exterior primer plus baked on acrylic topcoat by manufacturer. Color to match existing facility system.
- d. Hangers: Commercial grade hanger system shall be secured with screws approved by manufacturer. Gutter spikes, bracket type, strap style, or nails are not permitted.
- e. Gutter Guard: Provide and install commercial grade gutter guard system manufactured or approved by gutter manufacturer.
- f. Downspout brackets: Commercial grade bracket system shall be secured with screws approved by manufacturer. Strap system not permitted. Spikes or nails are not permitted.
- g. Splash blocks: Provide and install commercial grade concrete splash blocks for each downspout manufactured or approved by gutter manufacturer.

**DIVISION 7**  
**MOISTURE PROTECTION**  
**SEAMLESS GUTTERS, DOWNSPOUTS & GUTTER GUARD SYSTEM**  
**SECTION 07460**  
**Page 3 of 3**

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- a. Verify all dimension and conditions in the field. Be responsible for the correctness of all fitting and the proper attachment of work; clean and repair adjoining work upon which proper installation work is dependent.
- b. Install system in strict conformance to manufacturer's installation manual and specifications.
- c. All gutter hangers and downspout brackets to be fastened to solid lumber with screws. Type, size and spacing shall be in accordance to manufacturer's installation manual. Nails or gutter spike type fasteners are not permitted.

**3.02 CLEANING**

- a. The contractor shall at all times keep the premises free from surplus material and rubbish.
- b. Provide and use drop cloths to protect grounds and plantings from debris, nails, screws and materials. Provide and use magnetic brooms, rakes and equipment to ensure all materials are removed from the site.
- c. At the completion of the work, the contractor shall remove the entire plant and equipment and shall remove all rubbish, waste, and surplus materials. Contractor shall leave the premises broom clean.
- d. Any damage to the site shall be repaired by the Contractor to the satisfaction of the Agency Representative.

**3.03 WARRANTY**

Contractor shall provide 20-year warranty for labor and materials.

END OF SECTION

DIVISION 7  
MOISTURE PROTECTION  
ROOFING MEMBRANE  
SECTION 07545

Page 1 of 4

**GENERAL**

**1.01 REFERENCES**

- A. Factory Mutual (FM Global) - *Approval Guide***
- B. Underwriters Laboratories (UL) - *Roofing Systems and Materials Guide (TGFU R1306)***
- C. American Society for Testing and Materials (ASTM) - *Annual Book of ASTM Standards***
- D. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - *Architectural Sheet Metal Manual***
- E. Asphalt Roofing Manufacturers Association (ARMA)**
- F. National Roofing Contractors Association (NRCA)**
- G. American Society of Civil Engineers (ASCE)**

**1.02 DEFINITIONS**

- A. Roofing Terminology: Refer to ASTM D1079 and the glossary of the National Roofing Contractors Association (NRCA) *Roofing and Waterproofing Manual* for definitions of roofing terms related to this section.**

**1.03 PERFORMANCE REQUIREMENTS**

- A. Provide an installed roofing membrane and base flashing system that does not permit the passage of water, and will withstand the uplift pressures calculated in accordance with the most current revision of ASCE 7.**
- B. GAF shall provide all primary roofing materials that are physically and chemically compatible when installed in accordance with manufacturers current application requirements.**

**1.04 SUBMITTALS**

- A. Product Data: Provide product data sheets for each type of product indicated in this section.**
- B. Shop Drawings: Provide manufacturers standard details and approved shop drawings for the roof system specified.**
- C. Samples: Provide samples of insulations, fasteners and roll goods for verification of quality.**
- D. Certificates: Installer shall provide written documentation from the manufacturer of their authorization to install the roof system, and eligibility to obtain the warranty specified in this section.**

DIVISION 7  
MOISTURE PROTECTION  
ROOFING MEMBRANE  
SECTION 07545  
Page 2 of 4

**1.05 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:** GAF shall provide a roofing system that meets or exceeds all criteria listed in this section.
- B. Installer's Qualifications:**
  - 1. Installer shall be classified as a GAF Master Elite Contractor as defined and certified by GAF.**
  - 2. Source Limitations:** All components listed in this section shall be provided by a single manufacturer or approved by the primary roofing manufacturer.
- C. Final Inspection:** Manufacturer's representative shall provide a comprehensive final inspection after completion of the roof system. All application errors must be addressed and final punch list completed.

**1.06 PRE-INSTALLATION CONFERENCE**

- A. Prior to scheduled commencement of the roofing installation and associated work, conduct a meeting at the project site with the installer, architect, owner, GAF representative and any other persons directly involved with the performance of the work. The installer shall record conference discussions to include decisions and agreements reached (or disagreements), and furnish copies of recorded discussions to each attending party. The main purpose of this meeting is to review foreseeable methods and procedures related to roofing work.**

**1.07 REGULATORY REQUIREMENTS**

- A. All work shall be performed in a safe, professional manner, conforming to all federal, state and local codes.**
- B. Exterior Fire Test Exposure:** Provide a roofing system achieving an [Underwriters Laboratories \(UL\)](#) Class A rating for roof slopes indicated.
- C. Windstorm Classification:** Provide a roofing system that can achieve a [Factory Mutual 1-90](#) wind uplift rating, as listed in the current FM Approval Guide.

**1.08 DELIVERY, STORAGE AND HANDLING**

- A. Deliver all roofing materials to the site in original containers, with factory seals intact. All products are to carry either a GAF or BMCA® label.**
- B. Store all pail goods in their original undamaged containers in a clean, dry location within their specified temperature range.**
- C. Store roll goods on end on pallets in a clean, dry, protected area. Take care to prevent damage to roll ends or edges. Do not double stack modified bitumen products.**

DIVISION 7  
MOISTURE PROTECTION  
ROOFING MEMBRANE  
SECTION 07545  
Page 3 of 4

- D. Do not expose materials to moisture in any form before, during, or after delivery to the site. Reject delivery of materials that show evidence of contact with moisture.
- E. Remove manufacturer supplied plastic covers from materials provided with such. Use “breathable” type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Cover and protect materials at the end of each workday. Do not remove any protective tarpaulins until immediately before the material will be installed.
- F. Materials shall be stored above 55°F (12.6°C) a minimum of 24 hours prior to application.

### 1.11 PROJECT CONDITIONS

#### A. Weather

- 1. Proceed with roofing only when existing and forecasted weather conditions permit.
- 2. Ambient temperatures must be above 45°F (7.2°C) when applying hot asphalt or water based adhesives.

### 1.12 WARRANTY

- A. Provide Manufacturers standard [Diamond Pledge™](#) Guarantee with single source coverage and no monetary limitation where the manufacturer agrees to repair or replace components in the roofing system, which cause a leak due to a failure in materials or workmanship. Duration: minimum **Twenty (20)** years from the date of agency acceptance.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. GAF Materials Corporation - 1361 Alps Road, Wayne, NJ 07470 [www.gaf.com](http://www.gaf.com) Toll Free Tel: (800) ROOF-411. Tel: (973) 628-3000. Fax: (973) 628-3451. Email: [TechnicalQuestions@gaf.com](mailto:TechnicalQuestions@gaf.com). Web: [http:// www.gaf.com](http://www.gaf.com).

### 2.02 FLASHING MATERIALS

- A. As specified by Material Manufacturer's installation manual.

### 2.03 ACCESSORIES

- A. Mechanical Fasteners  
As specified by Material Manufacturer's installation manual.

DIVISION 7  
MOISTURE PROTECTION  
ROOFING MEMBRANE  
SECTION 07545  
Page 4 of 4

**PART 3 EXECUTION**

**a. EXAMINATION**

- A. Verify that the surfaces and site conditions are ready to receive work.**
- B. Verify that the deck is supported and secured.**
- C. Verify that the deck is clean and smooth, free of depressions, waves, or projections, and properly sloped to drains, valleys, eaves, scuppers or gutters.**
- D. Verify that the deck surfaces are dry and free of ice or snow.**

**b. SUBSTRATE PREPARATION**

**As specified by Material Manufacturer's installation manual.**

**c. INSTALLATION – GENERAL**

**As specified by Material Manufacturer's installation manual.**

**d. MEMBRANE APPLICATION**

**Self-Adhered Membrane: As specified by Material Manufacturer's installation manual.**

**e. FLASHINGS**

- A. General: Provide and install flashings and counter flashings in strict conformance to material manufacturer's installation manual.**

**f. CLEAN-UP**

**All work areas are to be kept clean, clear and free of debris at all times.**

- A. Do not allow trash, waste, or debris to collect on the roof. These items shall be removed from the roof on a daily basis.**
- B. All tools and unused materials shall be collected at the end of each workday and stored properly off of the finished roof surface and protected from exposure to the elements.**
- C. Dispose of or recycle all trash and excess material in a manner conforming to current EPA regulations and local laws.**
- D. Properly clean the finished roof surface after completion, and make sure the drains and gutters are not clogged.**
- E. Clean and restore all damaged surfaces to their original condition.**

**END OF SECTION**

**DIVISION 16  
ELECTRICAL  
SECTION 16010  
Page 1 of 1**

**PART 1 GENERAL**

**1.01 The work under this section consists of the furnishing of all labor, materials, services and equipment to properly complete all items of work.**

**1.02 DESCRIPTION OF WORK**

Provide electrical services as may be required to complete the Project such as but not limited to: Removal and re-installation of all existing electrical fixtures, conduit, wiring and associated electrical items as required to proceed with and complete the Project.

**1.03 CODES AND STANDARDS**

**1.04 Only Electrician(s) licensed to perform work of this scope in the State of Connecticut shall perform the work. Submit a copy of license(s) prior to start of work.**

**1.05 Electrical materials and their installation shall comply in all respects with:**

- a. State of Connecticut Building Codes
- b. State of Connecticut Fire Safety Codes
- c. National Electrical Codes

**PART 2 PRODUCTS**

**2.01 Re-Install all materials removed during the course of the work**

**2.02 Provide ALL miscellaneous materials and accessories as may be necessary to complete the work.**

**PART 3 EXECUTION**

**3.01 Extent of electrical work shall include all labor, equipment and services required to complete, ready for correct operation all electrical work as may be required to complete the project, including but not limited to the following:**

- 1. Removal of existing electrical work as required.
- 2. Re-working of existing electrical items as required.
- 3. Re-Installation of existing electrical items. Test electrical work for proper operation.
- 4. Installation and removal of protective coverings at electrical service lines.

**3.02 CLEANING**

- 1. The contractor shall at all times keep the premises free from surplus material and rubbish and he shall not have undue surplus material for which there is no immediate use which may delay and hinder other contractors employed on the work.
- 2. At the completion of the work, the contractor shall remove his entire plant and equipment and shall remove all rubbish, waste, and surplus materials. He shall leave the premises broom clean.

**END OF SECTION**



## **Tunic & Migeon CLA Flat Roof Specifications (3 Areas)**

1. Remove the existing roof to the wood deck and dispose of debris.
2. Using a two part insulation adhesive, install new tapered Polyisocyanurate insulation over the existing deck. Lower flat roofs only.
3. Utilize TPO for all eyebrow raised dormers and front entry portico's. Color White.
4. Over insulation, install a new Firestone or approved equal Fully Adhered .060 EPDM roof membrane system.
5. Fabricate and install new .040 Aluminum Gravel Stops on all flat roofs edging in the color oTBD.
6. Install new EPDM flashings on Drain and at existing wall / roof connection.
7. Supply owner with a Firestone 20 Year No Dollar Limit warranty or approved equal.

## SECTION 06 60 00 PLASTIC FABRICATIONS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Cellular pvc trim boards for corner boards, soffits, fascias, battens, door pilasters, frieze boards, rake boards, architectural millwork and door/window trim.

#### 1.02 RELATED SECTIONS

- A. Section 06 64 00 - Plastic Paneling.
- B. Section 06 65 00 - Plastic Simulated Wood Trim.
- C. Section 06 66 00 - Custom Ornamental Simulated Woodwork.

#### 1.03 REFERENCES

- A. ASTM D792 - Density and Specific Gravity of Plastics by Displacement.
- B. ASTM D570 - Water Absorption of Plastics.
- C. ASTM D638 - Tensile Properties of Plastics.
- D. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- E. ASTM D1761 - Mechanical Fasteners in Wood.
- F. ASTM D5420 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by means of a Striker Impacted by a Falling Weight.
- G. ASTM D256 - Determining the Pendulum Impact Resistance of Plastics.
- H. ASTM D696 - Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous silica Dilatometer.
- I. ASTM D635 - Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- J. ASTM E84 - Surface Burning Characteristics of Building Materials.
- K. ASTM D648 - Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
- L. ASTM D3679 - Standard Specification for Rigid Poly Vinyl Chloride (PVC) Siding.

#### 1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data, manufacturer's catalogs, SPEC-DATA® product sheet, for specified products.

#### 1.04 SUBMITTALS (continued)

- C. Samples: Submit three material samples representative of the texture, thickness and widths shown and specified herein.

#### 1.05 QUALITY ASSURANCE

- A. Regulatory Requirements: Check with Local Building Code for installation requirements.
- B. Allowable Tolerances:
  - 1. Variation in component length:  $-0.00 / + 1.00"$
  - 2. Variation in component width:  $\pm 1/16"$
  - 3. Variation in component thickness:  $\pm 1/16"$
  - 4. Variation in component edge cut:  $\pm 2^\circ$
  - 5. Variation in Density  $-0\% + 10\%$
- C. Workmanship, Finish, and Appearance:
  - 1. Free foam cellular pvc that is homogeneous and free of voids, holes, cracks, and foreign inclusions and other defects. Edges must be square, and top and bottom surfaces shall be flat with no convex or concave deviation.
  - 2. Uniform surface free from cupping, warping, and twisting.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Trim materials should be stored on a flat and level surface on a full shipping pallet. Handle materials to prevent damage to product edges and corners. Store materials under a protective covering to prevent jobsite dirt and residue from collecting on the boards.

#### 1.07 WARRANTY

- A. Provide manufacturer's 25 year warranty against defects in manufacturing that cause the products to rot, corrode, delaminate, or excessively swell from moisture.

### PART II PRODUCTS

#### 2.01 MATERIALS

- A. Acceptable products: AZEK® Trimboards manufactured by Vycor Corporation, 801 Corey Street, Mosaic, PA 18507.
- B. Material: Free foam cellular pvc material with a small-cell microstructure and density of .55 grams/cm<sup>3</sup>.
  - 1. Material shall have a minimum physical and performance properties specified in Section C on the following page.

C. Performance and physical characteristic requirements:

PROPERTY	UNITS	VALUE	ASTM METHOD
<b>PHYSICAL</b>			
Density	g/cm <sup>3</sup>	0.55	D 792
Water Absorption	%	0.15	D 570
<b>MECHANICAL</b>			
Tensile Strength	psi	2256	D 638
Tensile Modulus	psi	144,000	D 638
Flexural Strength	psi	3329	D 790
Flexural Modulus	psi	144,219	D 790
Nail Hold	Lbf/in of penetration	35	D 1761
Screw Hold	Lbf/in of penetration	680	D 1761
Staple Hold	Lbf/in of penetration	180	D 1761
Gardner Impact	in-lbs	103	D 5420
Charpy Impact (@23°C)	ft-lbs	4.5	D 256
<b>THERMAL</b>			
Coefficient of Linear Expansion	in/in/°F	3.2 x 10 <sup>-5</sup>	D 696
Burning Rate	in/min	No burn when flame removed	D 635
Flame Spread Index	--	25	E 84
Heat Deflection Temp 264 psi	°F	150	D 648
Oil Canning (@140°F)	°F	Passed	D 648

## 2.02 ACCESSORY PRODUCTS

A. Fasteners:

- Use fasteners designed for wood trim and wood siding (thinner shank, blunt point, full round head) with AZEK®.
- Use a highly durable fastener such as stainless steel or hot-dipped galvanized.
- Staples, small brads and wire nails must not be used as fastening members.
- The fasteners should be long enough to penetrate the solid wood substrate a minimum of 1 1/2".
- Standard nail guns work well with AZEK trim products.
- Use 2 fasteners per every framing member for trimboards applications. Trimboards 12" or wider, as well as sheets, will require additional fasteners.
- Fasteners must be installed no more than 2" from the end of each board.
- AZEK should be fastened into a flat, solid substrate. Fastening AZEK into hollow or uneven areas must be avoided.
- Pre-drilling is typically not required unless a large fastener is used or product is installed in low temperatures.
- 3/8" and 1/2" sheet product is not intended to be ripped into trim pieces. These profiles must be glued to a substrate and mechanically fastened.

B. Adhesives:

- Glue all AZEK to AZEK joints such as window surrounds, long fascia runs, etc. with AZEK Adhesive, a cellular pvc cement, to prevent joint separation.
- The glue joint should be secured with a fastener and/or fastened on each side of the joint to allow adequate bonding time.
- AZEK Adhesive has a working time of 10 minutes and will be fully cured in 24 hours.
- If standard pvc cements are used, keep in mind these products typically cure quickly which will result in limited working time and may reduce adhesive strength.
  - Surfaces to be glued should be smooth, clean and in complete contact with each other.
  - To bond AZEK to other substrates, various adhesives may be used. Consult adhesive manufacturer to determine suitability.

C. Sealants:

- Use urethane, polyurethane or acrylic based sealants without silicone.

## 2.03 FINISHES

A. AZEK products do not require paint for protection, but may be painted to achieve a custom color.

B. Preparation:

- No special surface preparations are required prior to painting - sanding is not necessary for paint adhesion.
- Surface must be clean and dry.
- If desired, nail holes may be filled with polyurethane or acrylic based caulk.
- Use a 100% acrylic latex paint with a Light Reflective Value (LRV) of 55 or higher.
- Follow the paint manufacturer's recommendations to apply.

## PART III EXECUTION

### 3.01 INSTALLATION

A. Manufacturers instructions:

- Comply with manufacturer's product catalog installation instructions and product technical bulletin instructions.

B. Cutting:

- AZEK products can be cut using the same tools used to cut lumber.
- Carbide tipped blades designed to cut wood work well. Avoid fine tooth metal cutting blades.
- Rough edges from cutting may be caused by excessive friction, poor board support, or worn or improper tooling.

C. Drilling

- AZEK products can be drilled using the same tools used to drill lumber.
- Drilling AZEK products is similar to drilling a hardwood. Care should be taken to avoid frictional heat buildup.
- Use standard woodworking drills. Do not use drills made for normal rigid pvc.
- Periodic removal of AZEK shavings from the drill hole may be necessary.

D. Milling

- AZEK products can be milled using standard milling machines used to mill lumber.
- Relief Angle 20° to 30°
- Cutting speed to be optimized with the number of knives and feed rate.

E. Routing

- AZEK products can be routed using standard router bits and the same tools used to rout lumber.
- Carbide tipped router bits are recommended.

F. Edge Finishing

- Edges can be finished by sanding, grinding or filing with traditional woodworking tools.

G. Nail Location

- Use 2 fasteners per every framing member for trimboard applications.
- Trimboards over 12" or wider, as well as sheets, will require additional fasteners.
- Fasteners must be installed no more than 2" from the end of each board.

H. Thermal Expansion and Contraction

- AZEK products expand and contract with changes in temperature.
- Properly fastening AZEK material along its entire length will minimize expansion and contraction.
- When properly fastened, allow for 1/8" per 18 foot of AZEK product for expansion and contraction.
- Joints between pieces of AZEK should be glued to eliminate joint separation. When gaps are glued on a long run of AZEK, allow expansion and contraction at ends of the run.

END OF SECTION

Page 4 of 4  
Section 06 60 00

# SHINGLE-MATE®

## Roof Deck Protection

### Homeowner's Best Choice

- **Looks Better...** Fiberglass reinforced, so it lays flatter for a better-looking roof.
- **Lays Flatter...** Reduces the telegraphing of wrinkles that can occur with conventional organic felts.
- **Better Protection...** Eliminates the need to slit bubbled felt (which can compromise the waterproof integrity of your roofing system).

### Professional's Best Choice

- **Avoid Downtime...** Dries faster and rolls out quicker than organic felts.
- **Reduces Call-backs...** Due to elimination of bumpy-looking shingle jobs.
- **Easier To Use...** Lighter and easier to handle than #30 felt.
- **Versatile...** Can be applied over plywood, wood plank, and all other approved decks.
- **Great Value...** Competitively priced with #30 felt on a per square basis.

### Shingle-Mate® Roof Deck Protection vs. #30 Felt

	Shingle-Mate®	#30 Felt
Glass-reinforced to lay flatter and dry faster	Yes	No
Reduces the telegraphing of wrinkles across the roof	Yes	No
Lightweight and easy to handle	Yes	No
Rolls swiftly in the cold, early morning	Yes	No
Four-square coverage for faster installation	Yes	No
Meets physical requirements of ASTM D226, D4869, and is UL classified	Yes	Varies
Part of GAF-Elk Smart Choice® Roof System Solution	Yes	No
Price Competitive*	Yes	Varies

\*Shingle-Mate® roof deck protection is often equal to or less than the price for #30 felts on a per square basis (prices vary by market).

### See The Difference!



Conventional organic felts can absorb moisture, causing severe buckling and wrinkling.



Shingle-Mate® roof deck protection resists moisture, so it lays flatter!

### Product Specifications (Nom.)

Roll length . . . . .144 ft  
 Roll weight . . . . .30 lbs. per roll  
 Approx. coverage . . . . .4 squares (432 sq. ft.)  
 Meets or exceeds the physical requirements of ASTM D226, D4869, and is UL classified



Smart Choice®

## ROOFSYSTEM SOLUTION

visit [www.gaf.com](http://www.gaf.com)

**Roof Deck Protection**

**Leak Barrier**

**Low-Slope Membranes**

**Pre-Cut Starter Strip Shingles**

**Ridge Cap Shingles**

**Attic Ventilation**

**Quality Shingles**

**Premium Skylights**

**Roof Accessory Paint**



The GAF-Elk Smart Choice® Roof System Solution has earned the prestigious Good Housekeeping Seal, which means that Good Housekeeping stands behind the products in this system (refer to Good Housekeeping Magazine for its consumer protection policy).

**Your Best And Safest Choice... Quality You Can Trust Since 1886!**

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# WEATHERWATCH®

Granular Surfaced Leak Barrier

"The Ultimate Leak Barrier"

Granular surface Leak Barrier for residential use

Professional's Best Choice

- Helps Eliminate Waste... Special adhesive allows for one-time repositioning, but aggressively adheres over time
- Safer Installation... SlipGuard™ granular surface improves footing
- Dependable... Self-seals around nails
- Saves Labor... Split-back release film peels off in layers for faster installation—allowing you to offer greater homeowner value
- Looks Better... Fiberglass reinforcement helps resist wrinkling and buckling—lays flatter under shingles
- Convenient... 1.5 and 2.0 square roll sizes—your choice
- Peace Of Mind... Benefits from the same warranty term as the asphalt shingle it is applied under, up to a maximum of 30 yrs.\*
- Recognized Quality...
  - UL Listed Accessory
  - ICBO ES Listed (See ICBO ES ER-5433)
  - SBCCI PST & ESI Listed (Report No.2104)

\*See ltd. warranty (available from your distributor)  
for complete coverage and restrictions





## ALCOA® ENVOY™ PREMIUM PERFORMANCE

### ALCOA® ENVOY™ GUTTER COIL & ACCESSORIES

**Alcoa® Envoy™ Gutter Coil & Accessories** offer the flexibility and quality engineering that deliver premium results on the job. Envoy™ gutter coil is available in a comprehensive color selection and is complemented with downspouts and accessories for a beautiful, durable and economical solution for rain removal.

- Nominal .032 thickness
- Coated with Alcoa®'s exclusive Alumalure 2000® smooth finish to prevent fading
- Coil widths available to make:
  - 5" and 6" gutters in more than 15 standard colors
  - 5" and 6" gutters in nine standard colors with white on reverse side
  - Or explore the hues available with our DreamColor™ selection
- Full line of accessories available for any installation, including downspouts, elbows, and end caps
- Backed by Alcoa®'s 20-year warranty

It's Better Because It's Alcoa®.





# Gutter Helmet®

NEVER CLEAN YOUR GUTTERS AGAIN®

### PermaLife™ Finish

Hi-performance, anti-corrosive, multi-layer paint finish (protects against chalking, salt water & acid rain)

### Textured / Ribbed Surface

Increased surface tension & tensile strength (handles the heaviest rainfall, snow loads & extreme winds)

### Nose Forward Design

Precise engineered opening (water enters, debris & animals stay out)

### SnapLock™

Puncture-free hinged gutter attachment system (prevents sagging, buckling & wood rot)

### CleanEdge®

Water deflection channel (keeps the outside of your gutters stain-free)

### Premium Engineered Bracket

Reinforced aluminum alloy (multi-function, anti-corrosive load bearing system)