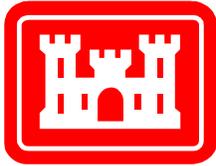


**Memphis District**

**Request for Quotation No. DACW66-01-T-0038**



**US Army Corps  
of Engineers®**

---

**Project Title:**

**Replace Roof of Federal Aviation Administration  
(FAA) Building**

**Location:**

**LEXINGTON, FAYETTE COUNTY, KENTUCKY**

**Construction Request for Quotation  
and Statement of Work**

**THIS IS A TOTAL SMALL BUSINESS SET-ASIDE**

**Date: JAN 2001**

**TABLE OF CONTENTS**

Cover Sheet  
Table of Contents  
SF1449 – Solicitation/Contract/Order for Commercial Items  
Statement of Work  
Wage Rates – General Decision No. KY000006  
Representations, Certifications and Clauses

**SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS  
OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30**

1. REQUISITION NUMBER  
W38XGR-0339-0351  
PAGE 1 OF 1

2. CONTRACT NO. 3. AWARD/EFFECTIVE DATE 4. ORDER NUMBER 5. SOLICITATION NUMBER  
DACW66-01-T-0038 6. SOLICITATION ISSUE DATE  
01/25/01

7. FOR SOLICITATION INFORMATION CALL: a. NAME  
Estella C. Blackman b. TELEPHONE NUMBER (No collect calls)  
(901) 544-0768 8. OFFER DUE DATE/ LOCAL TIME  
02/09/01 COB

9. ISSUED BY CODE W38XGR  
Department of the Army  
Memphis District Corps of Engineers  
167 North Main Street Rm B202  
ATTN: CEMVM-CT  
Memphis, TN 38103-1894  
10. THIS ACQUISITION IS  
 UNRESTRICTED  
 SET ASIDE: 100% FOR  
 SMALL BUSINESS  
 SMALL DISAV. BUSINESS  
 8(A)  
SIC: 1761  
SIZE STANDARD: \$11.5M  
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED  
 SEE SCHEDULE  
13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)  
13b. RATING  
14. METHOD OF SOLICITATION  
 RFQ  IFB  RFP  
12. DISCOUNT TERMS

15. DELIVER TO CODE  
SEE SCHEDULE 16. ADMINISTERED BY CODE  
SEE ITEM 9

17a. CONTRACTOR/OFFEROR CODE FACILITY CODE  
18a. PAYMENT WILL BE MADE BY CODE  
USAED Memphis  
USACE Finance Center  
Millington, TN 38054-5005  
TELEPHONE NO.

17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER  
 18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED  
 SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	Replace roof of Federal Aviation Administration (FAA) Building in Lexington, Fayette County, Kentucky <i>(Attach Additional Sheets as Necessary)</i>	1	LS		\$0.00

25. ACCOUNTING AND APPROPRIATION DATA 26. TOTAL AWARD AMOUNT (For Govt. Use Only)

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED.  ARE  ARE NOT ATTACHED  
 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR IS ATTACHED. ADDENDA  ARE  ARE NOT ATTACHED

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.  
 29. AWARD OF CONTRACT: REFERENCE \_\_\_\_\_ OFFER DATED \_\_\_\_\_ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFEROR/CONTRACTOR 31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)  
30b. NAME AND TITLE OF SIGNER 30c. DATE SIGNED 31b. NAME OF CONTRACTING OFFICER 31c. DATE SIGNED

32a. QUANTITY IN COLUMN 21 HAS BEEN  
 RECEIVED  INSPECTED  ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED  
33. SHIP NUMBER 34. VOUCHER NUMBER 35. AMOUNT VERIFIED CORRECT FOR  
 PARTIAL  FINAL

32b. SIGNATURE OF AUTHORIZED GOVT. REPRESENTATIVE 32c. DATE  
 COMPLETE  PARTIAL  FINAL  
36. PAYMENT 37. CHECK NUMBER  
38. S/R ACCOUNT NUMBER 39. S/R VOUCHER NUMBER 40. PAID BY

41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT  
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER 41c. DATE  
42a. RECEIVED BY (Print)  
42b. RECEIVED AT (Location)  
42c. DATE REC'D (YY/MM/DD) 42d. TOTAL CONTAINERS

FEDERAL AVIATION ADMINISTRATION  
SPECIFICATIONS  
FOR  
REPLACING THE ROOF SYSTEM  
ON THE  
AIR TRAFFIC BASE BUILDING  
LEXINGTON, KY

GENERAL:

1. SITE LOCATION: The Air Traffic Base Building is located on the Blue Grass Airport, Versailles Road, Lexington, KY

**Note:** This is a controlled access facility and the gates are locked. Point-of-contact is the System Service Manager at Lexington, (859) 233-2406.

2. SCOPE OF WORK: These specifications and drawing cover the requirements of the Federal Aviation Administration for supervision, labor, materials, equipment, tools and supplies and their use in connection with the replacement of the facility roof system. The three (3) areas to receive the roofs total approximately 7,154 square feet. This shall require the removal and disposal of the existing roofing material in accordance with local, state and federal laws.

IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR MAKE AN ON SITE INSPECTION TO EVALUATE THE RESTRICTED WORK AREAS AND EXISTING SITE CONDITIONS BEFORE HE SUBMITS HIS BID. (All expenses for the recommended site visit shall be responsibility of the contractor. The U.S. Government shall not reimburse any expenses incurred for the purpose of soliciting bids for this contract.)

2.1 DEMOLITION: The contractor shall retain on site no less than one closed type trash container that is capable of hold debris that is generated on daily bases. At no time shall trash be allowed to be stored in the open where it may become a potential safety hazard to airport operations.

2.2 INSTALLATION: The product specification sheets and drawing enclosed shall be use as a minimum requirement for this FAA project. Any supplier who has the same type or similar roofing product, that is equal to or exceeds the enclosed specification, shall submit to the FAA Resident Engineer (RE) for review and acceptance a complete package to include the following information; specifications, data sheets, installation/application procedures, detail drawings, manufacture's warranty and intallation warranty if it differs from the manufacture's warranty before it shall be considered for bid quotation.

3. CRITERIA FOR BIDDING. - Base bids on the following criteria has been solicited from business located from a local "Yellow Page" Internet program.

3.1 PAYMENT- Payment shall be made in full by U.S. Government Acquisition and conforming to contract solicitation.

4. INVOICES. Submit invoices to: Mike Gatewood, 2915 Riverport Road, Memphis, TN 38109.

5. PROTECTION OF EXISTING UTILITIES. – There are several roof obstructions such as air conditioner units, air handlers, communication antennas, lightning protection etc. These items are not to be disconnected, move or otherwise disabled without verification and authorization from a FAA (RE). These items are critical to the GNAS Navigational system and loss of service could cause disruption to aircraft and loss of human life. The contractor shall immediately notify the FAA RE of any disruption of service. The contractor shall repair any damage done by the contractor, subcontractor, or suppliers within the work area. The contractor shall be responsible for the restoration of service to any facilities impacted by his operations.

7. QUALITY ASSURANCE. - The Contractor shall give the RE, at the time of the JAI, the product and installation warranties.

9. SITE RESTORATION: All trash, scrap, debris and unused contractor furnished materials shall be moved from the site.

10. SAFETY-RELATED SPECIAL REQUIREMENTS. All work under this contract shall comply with the latest version of U.S. Army, Corps of Engineers, Safety and Health Requirements Manual, EM 385-1, and Occupational Safety and Health Act (OSHA) Standards in effect on the date of the solicitation. No separate payment will be made for compliance with EM 385-1-1, nor for compliance with any of the other safety related special requirements.

11. COMPLETION within (120) days of notice of award.

12. INSURANCE REQUIREMENTS FOR WORK ON GOVERNMENT PROPERTY.

- a. In accordance with the CONTRACT CLAUSE entitled “Insurance – Work on a Government Installation”, the Contractor shall procure and maintain during the entire performance period of this contract insurance of at least the minimum amounts set forth below:

<u>Type</u>	<u>Amount</u>
Workmen’s Compensation and Employer’s Liability Insurance	\$100,000 or statutory
Comprehensive: General Liability	\$500,000 per occurrence
Automobile Liability:	
(1) Bodily Injury	\$200,000 per person \$500,000 per occurrence
(2) Property Damage	\$20,000 per occurrence

- b. Prior to the commencement of work hereunder, the Contractor shall furnish to the Contracting Officer a certificate of written evidence of the above required insurance. The policies evidencing required insurance shall contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of the Government in such insurance shall not be effective until 30 days after written notice thereof to the Contracting Officer.

END

SECTION 07531

Mechanically Fastened Hypalon® Single-Ply Roofing System

***Hy-Crown***®

## Part 1—GENERAL

### 1.01 Description

- A. Work included: all labor, materials, equipment and accessories necessary for the following work:
  - Provide a mechanically-fastened Hypalon® elastomeric sheet roofing system consisting of a fabric-reinforced Hypalon sheet membrane, mechanical fasteners, adhesive, Hypalon seaming adhesive and all other materials required for a complete weathertight installation.
- B. Related work specified elsewhere:
  - 1. Boardstock roof insulation: Section 07220
  - 2. Sheetmetal work: Section 07600.

### 1.02 Quality Assurance

- A. Certification of roofing system: upon completion of the roofing system, an inspection shall be made by a representative of the manufacturer of roofing system to ascertain that the roofing system has been installed according to manufacturer's published specifications and details. (Applicable for optional manufacturer's joint warranty only.)
- B. Certification of materials: manufacturer of roofing membrane shall furnish, upon written request, notarized certification that the material furnished meets the physical properties set forth in this specification.

### 1.03 Submittals

- A. Shop drawings: submit shop drawings in accordance with Section 01300. Shop drawings shall include outline of roof and roof size, location and type of penetrations, perimeter and penetration details, special details, location of anchors and bill of materials. (Applicable for manufacturer's joint warranty only.)
- B. Product data: submit product data in accordance with Section 01300. Submission shall include manufacturer's product specifications and installation instructions.
- C. Requirements of regulatory agencies: furnish and install all roofing materials required to meet Factory Mutual, Class I and I-90 requirements and Underwriters Laboratories, Class A requirements. If changes to drawings or specifications are needed in order to meet requirements of specified regulatory agencies or to provide the specified guarantee, cost of such changes shall be included. Any changes to drawings or specifications shall be approved by architect before work commences.

### 1.04 Product Delivery, Storage and Handling

- A. Delivery of materials: deliver products in original, unopened packaging with legible manufacturer's identification.
- B. Storage of materials:
  - 1. Original packaging and proper product identification: store materials in original, sealed containers or unopened packages. Materials shall be clearly labeled with manufacturer's brand name and identifying reference numbers as specified.
  - 2. Site storage of membrane: store membrane in original protective wrapper under cover; in a cool, dry place; on raised platforms; in a horizontal position; and out of direct sunlight.
  - 3. Storage of solvents, contact adhesives and tape: solvents, contact adhesives, seaming adhesive and tape must be protected from freezing and flammable conditions. Keep materials in a well-ventilated area, away from sparks, open flame and excessive heat (50°F).

### 1.05 Job Conditions

- A. Environmental requirements:
  - 1. No work shall be performed during rainy or inclement weather which will affect quality of workmanship.
  - 2. Application temperature requirements shall be within temperature limits of adhesives being used. Temperature of the sheet and adhesive must be above 60°F when bonding.
- B. Protection:
  - 1. Required completion of work at end of work day: roof membrane shall be mechanically fastened, all seams welded and sealed on the same day as installed.
  - 2. Temporary water cut-offs: at end of each working day, incomplete installation shall be sealed along edges to prevent water from entering roof system or insulation.

3. Protection of in-place membrane:
  - a. Take care to ensure that installed membrane is not subject to excessive site traffic.
  - b. All persons who are required to walk on in-place roof membrane shall take all precautions necessary to ensure the integrity of the roofing membrane.
- C. Health and safety procedures: adhere to health and safety procedures of product manufacturers and governing codes. Material safety data sheets can be obtained by contacting the manufacturer.

#### 1.06 Specific Product Guarantee

- A. Conklin Company's guarantee to the distributor: Conklin Company, Inc. guarantees for a period of ten (10) years from date of purchase that Hy-Crown will remain free of any defects in manufacturing. This guarantee is limited to replacement of product at the expense of the company, when such product proves to be defective in manufacture. Among other things, this guarantee does not apply to coverage failures due to improper application. Proper application is covered in accordance with instructions and recommendations for use contained in our published literature, which is available on demand.

THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER.

THIS WARRANTY IS IN LIEU OF THE IMPLIED WARRANTY OF MERCHANTABILITY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.

This guarantee applies only to the Conklin distributor who purchases the product and cannot be extended to any other person.
- B. Optional manufacturer/contractor warranty: please consult with the manufacturer for details and availability of other warranty programs.

### Part 2—PRODUCTS

#### 2.01 General Requirements

Acceptable materials: all components which make up the complete roofing system, including roof insulation, shall be made by, or acceptable to, the roof membrane manufacturer.

#### 2.02 Hypalon Roof Membrane

- A. Acceptable manufacturers: as follows or approved equal:  
Conklin Company Inc., Shakopee, MN, "Hy-Crown"
- B. Description: membrane composed of a high-grade Hypalon synthetic rubber sheet reinforced with polyester fiber. The Hypalon rubber extends beyond the fiber reinforcement in sealing the edges of the sheet. Each sheet overlaps the adjacent sheet and is welded to produce a continuous sealed membrane.
- C. Physical properties:
  1. Material composition: Hypalon and 10×10 polyester scrim reinforcement.
  2. Sheet color: white face, black back.
  3. Sheet length: 100' (30.48 meters).
  4. Sheet width: 61" (60" plus nominal ½" [1.52 – 1.55 millimeters] selvedge each edge).
  5. Weight: 32 pounds per square (14.53 kg) (±10%)
  6. Thickness: 45 mils (0.11 centimeters) (±10%)

B. Performance properties: membrane shall meet the following minimum requirements when tested in accordance with the standard indicated:

Property	Test Method	Typical Test Results
Fire resistance	UL-790	Class A non-combustible** Class A combustible**
Wind uplift resistance	Factory Mutual Class I	Passes I-90*
Breaking strength	ASTM D751	Cross direction – 264 lbs. F Machine direction – 273 lbs. F
Tear strength	ASTM D751 Tongue tear	Cross direction – 87 lbs. Machine direction – 103 lbs.
Elongation (including scrim)	ASTM D412	81% (fabric break) 293% (rubber break)
Ply adhesion	ASTM D413	18 lbs. F/inch width
Hydrostatic resistance	ASTM D751	383 psi
Flexibility	ASTM D1737	Passes 1/8" at -36°F
Ozone resistance	ASTM D1149 100 pphm, 1/8" bent loop 7 days at 104°F	7x, no cracks
Linear dimensional change	ASTM D1204	1.0%
Volatile loss	ASTM D1203	0.5%
Hardness (Durometer A)	ASTM D2240	85
Puncture resistance	Method 2031 FTMS 101C	251 lbs.
Heat aging % retention	ASTM D573 14 days at 212°F	100%
Accelerated weathering	ASTM D2565 ASTM E-838	No deterioration after 3,000 hours No deterioration after 3 million Langleys

\*Consult Factory Mutual directory for specific details.

\*\*Consult Underwriters Laboratories building directory for specific details.

### 2.03 Miscellaneous Materials

- A. Contact adhesive: compatible with materials with which it is used and furnished by membrane manufacturer. Adhesive shall be designed and used to bond Hypalon membrane to non-Hypalon surfaces.
- B. Non-reinforced Hypalon sheet, (unsupported roll) 45 mils (0.11 centimeters  $\pm$ 10%) thick. For use in flashing details.
- C. Hypalon seaming adhesive: compatible with materials with which it is used and furnished by membrane manufacturer. Hypalon seaming adhesive shall be used in welding or sealing the following areas:
  1. Lap seam area.
  2. Exposed fiber reinforcement.
  3. Repairs and patches.
- D. Solvent: Xylene. Consult manufacturer when local codes prohibit its use.
- E. Caulk: 360-S™
- F. Molded corners; inside and outside.
- G. Walkway pads as approved by membrane manufacturer.

### 2.04 Equipment (optional)

- A. Hand-held hot air welding tool: equipment used to heat-weld membrane together shall be an electrically operated 110 or 220 volt hot air welding gun capable of temperatures not less than 900°F.

- B. Automatic hot air welding tools: equipment used to heat-weld membrane together shall be an electrically operated 220 volt, minimum 3,000 watt, variable speed and temperature-controlled unit.

## Part 3—EXECUTION

### 3.01 Inspection

- A. General requirements: inspect areas to receive roofing to verify that there are no conditions which will hinder the successful installation of the membrane as specified. Necessary corrections and repairs must be completed prior to proceeding with installation of membrane.
- B. Condition of substrate: substrate to receive membrane shall be structurally sound, solid, clean, dry and free of snow and ice. Substrate which permits water ponding shall not receive membrane until condition is corrected.
- C. Completion of related work: do not proceed with work until all roof construction work has been completed, including roof edge carpentry work, roof drains, expansion joint construction, mechanical equipment curbs and rails, roof vents and other penetration work.
- D. Fastener pull-out tests will meet membrane manufacturer's requirements.

### 3.02 Preparation

Cleaning: remove all surface debris, loose gravel, grease, dirt and other contaminants.

### 3.03 Installation

- A. General requirements: install all materials in strict accordance with manufacturer's instructions. The following installation procedure is a general description and shall not supersede manufacturer's instructions. Minimum slope to drain requirement is  $\frac{1}{4}$ " for every 12".
- B. Membrane layout:
  - 1. Determine layout of membrane and, where possible, overlap seams in the direction of water run-off.
  - 2. On highly sloped roofs, lay out sheets parallel to slope of roof.
  - 3. On low sloped roofs, begin work at lowest point to assure waterproof overlaps by preventing direct exposure of overlaps to drainage paths.
- C. Installation of initial sheet: install first sheet with extreme care to ensure accurate alignment of subsequent sheets. Install first sheet to roof edge and perpendicular with direction of water run-off. Install fasteners to adhere the sheet according to Conklin Company installation details.
- D. Installation of subsequent sheets: install subsequent sheets as specified for initial sheet, making sure to overlap  $4\frac{1}{2}$ " onto adjacent sheet (optional installations are shown in detail 1-1).
- E. Seaming:
  - 1. Before welding, inspect selvage for adhesive or contamination. Thoroughly wipe membrane surface with Xylene before welding lap seam area.
  - 2. Weld all sheets on same day in which they are laid.
  - 3. Weld lap seam area to adjacent sheet using seaming adhesive, pressing the two surfaces together with hard rubber roller to ensure complete bonding. Selvage of membrane shall be overlapped onto adjacent sheet  $4\frac{1}{2}$ " when using 2" plates.\*
  - 4. Option: the lap seams may be heat welded with an automatic welder.
  - 5. All Hypalon seams shall be  $1\frac{1}{2}$  - 2" wide, but never less than  $1\frac{1}{4}$ " wide, fully bonded scrim over scrim.
  - 6. Inspect all joints upon completion of each day's work or first thing the following day before proceeding with new work.
- F. Butt joint procedure (end of roll):
  - 1. Overlap start of new roll over end of previously-completed roll by  $4\frac{1}{2}$ " when using 2" plates.\*
  - 2. Thoroughly wipe membrane surface with Xylene before welding lap seam area.
  - 3. Weld lap area as in "seaming."
- G. Outside corners: form outside corners by welding molded corner to the sheet with seaming adhesive (optional site manufacturing with reinforced sheet material).
- H. Inside corners: form inside corners by welding molded corner to the sheet with seaming adhesive (optional site manufacturing with reinforced sheet material).

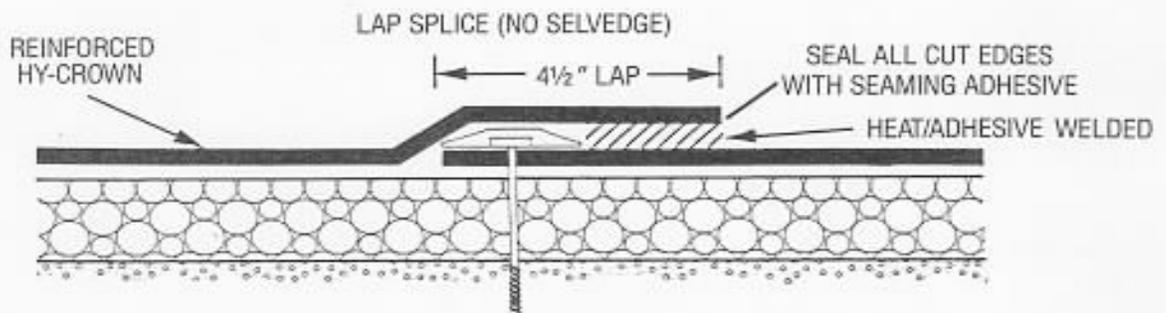
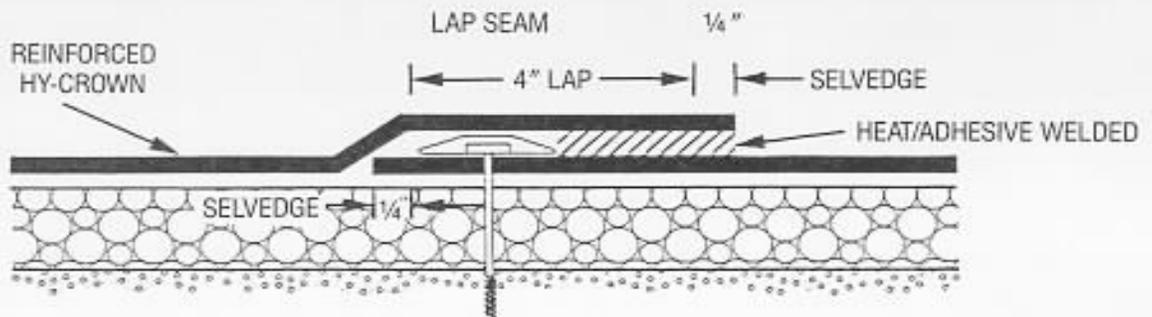
\* If using 3" plates, must overlap sheets  $5\frac{3}{4}$ "

- I. Terminations and penetrations: membrane installation at drains, reglets, parapets, vertical walls, expansion joints, roof curbs, roof penetrations and similar penetration and termination points shall be in strict accordance with membrane manufacturer's instructions and details.
- J. Water cut-off: at the end of each day's work, free edges of membrane shall be sealed with 360-S<sup>®</sup> urethane sealant or equal product approved by the membrane manufacturer. The free edge of the membrane shall be carefully cleaned with solvent before beginning new work.

#### **3.04 Cleaning**

General requirements: remove rubbish and debris resulting from roof installation from roof and work site following completion of roof membrane installation.

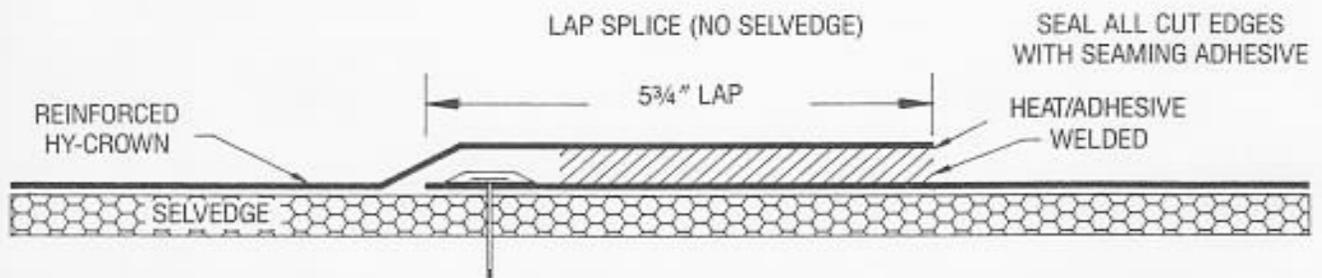
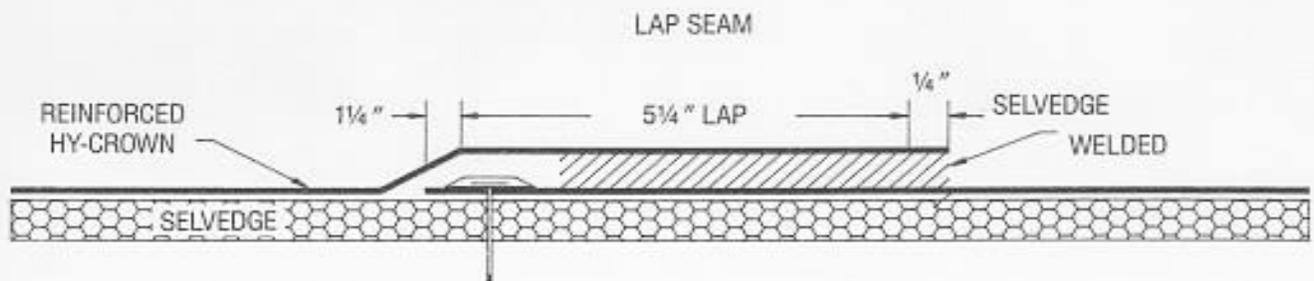
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

SEAM LAP DETAILS (2" DISC FASTENER)  
FASTENING PATTERNS

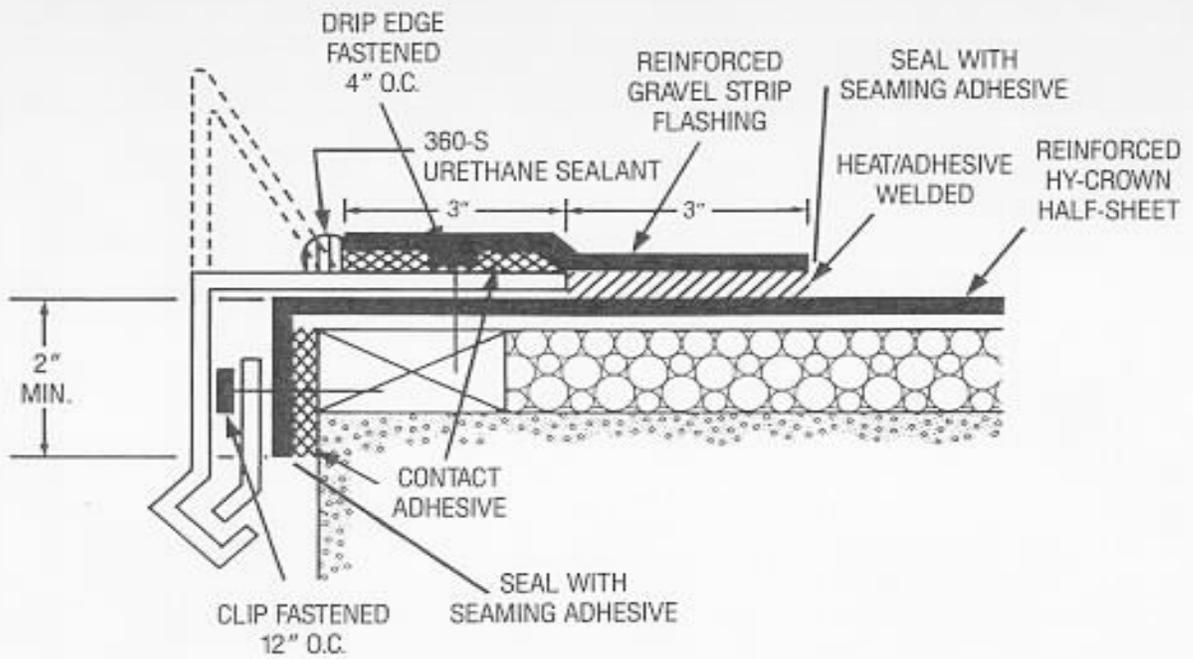
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

SEAM LAP DETAILS (3" DISC FASTENER)  
FASTENING PATTERNS

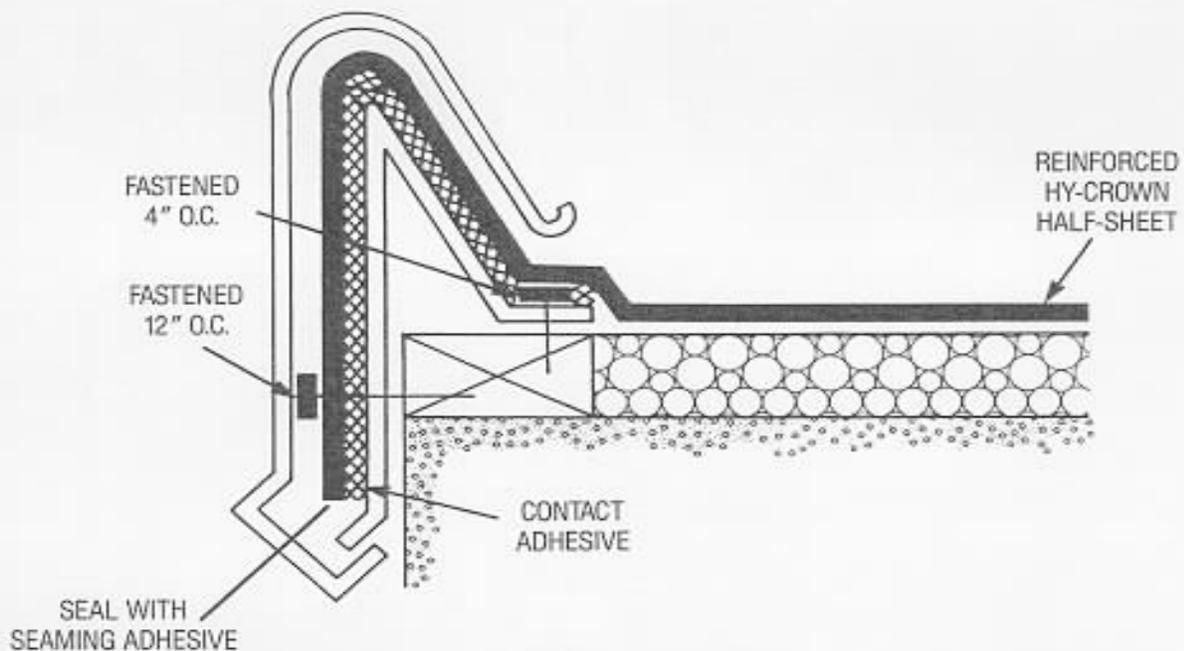
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

METAL DRIP/RAISED EDGE

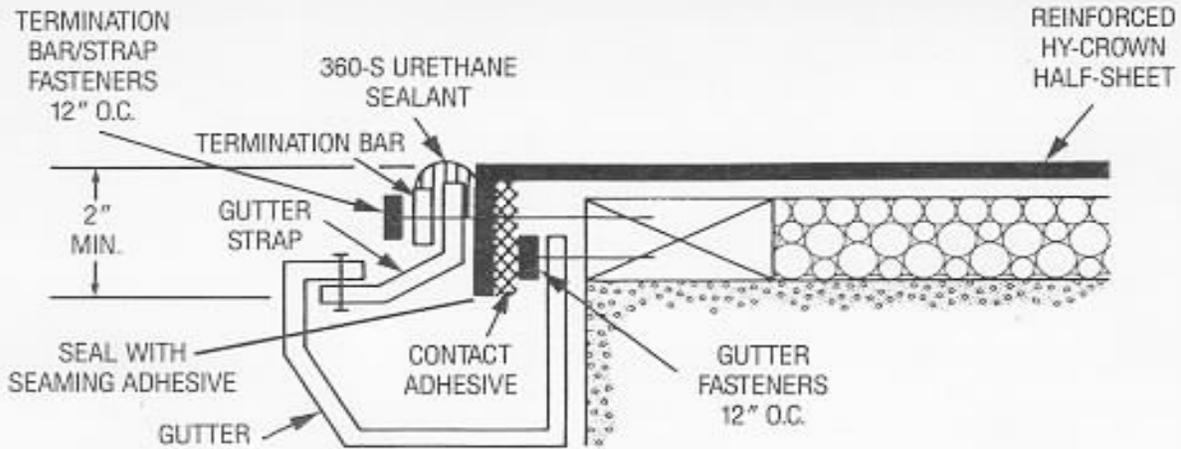
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1-3



CONKLIN COMPANY, INC.  
SHAKOPEE, MN

METAL GRAVEL STOP

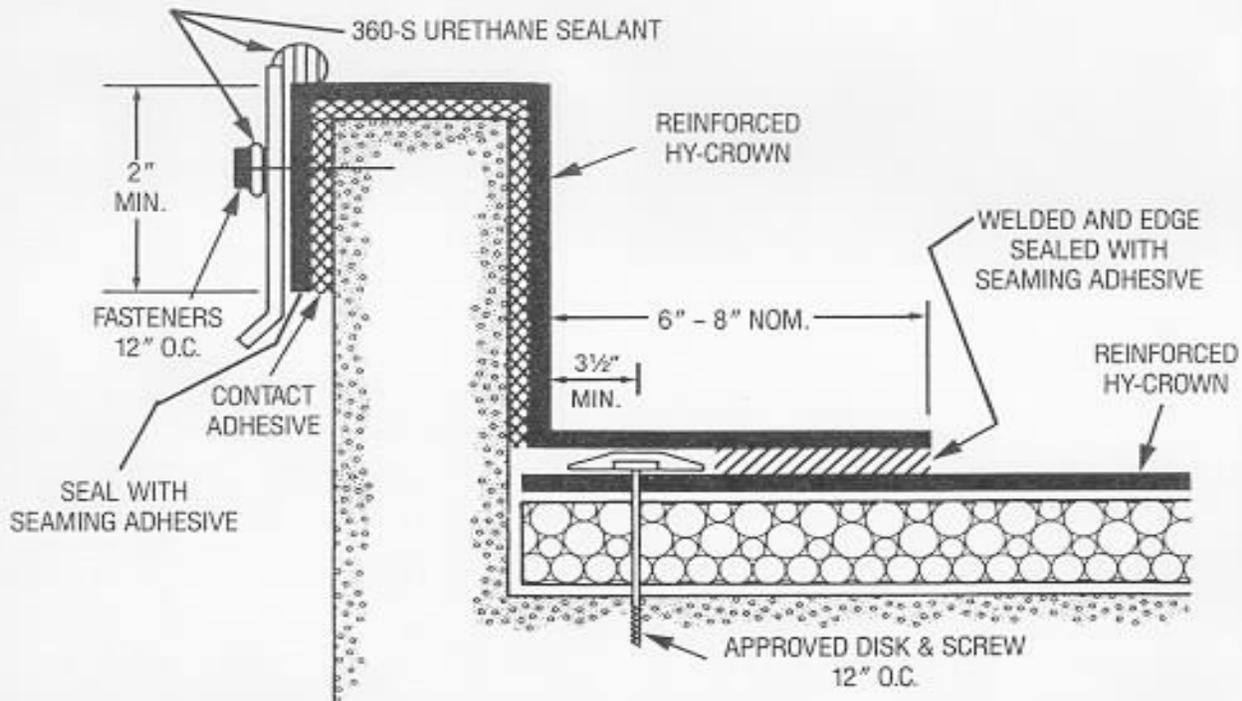
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

GUTTER FASTENING

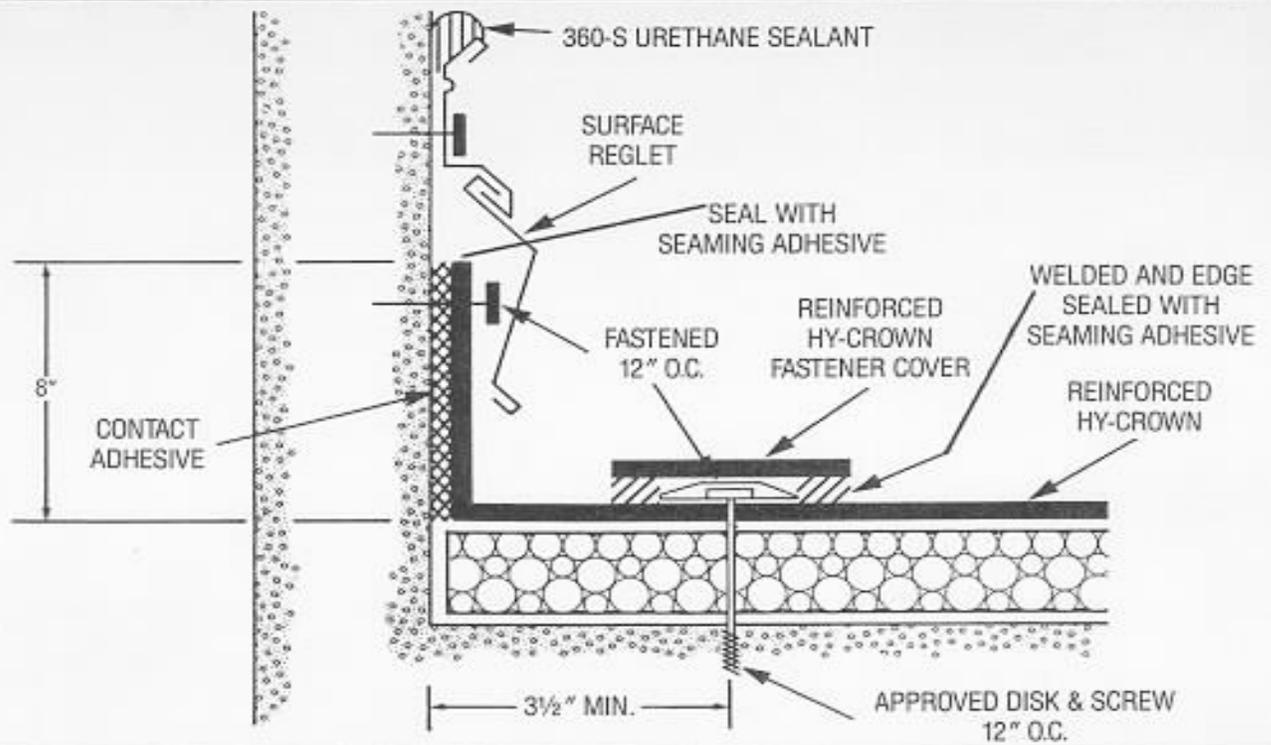
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

PARAPET WALLS UNDER 18"

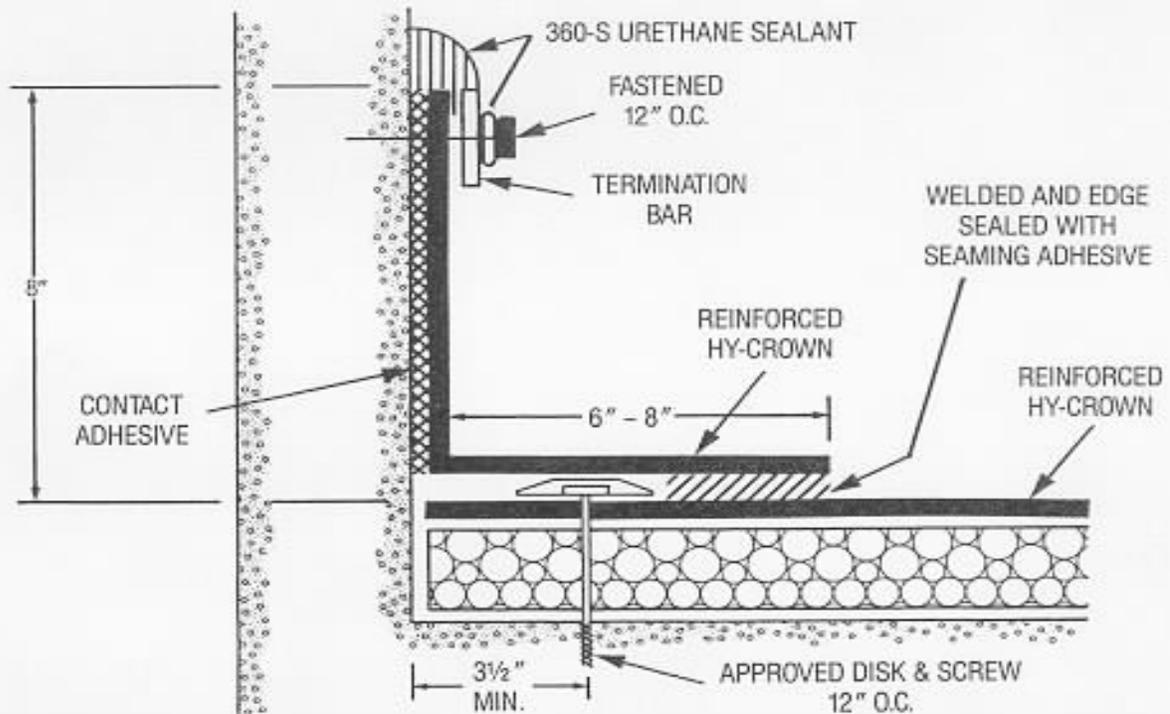
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

PARAPET WITH HIGHWALL

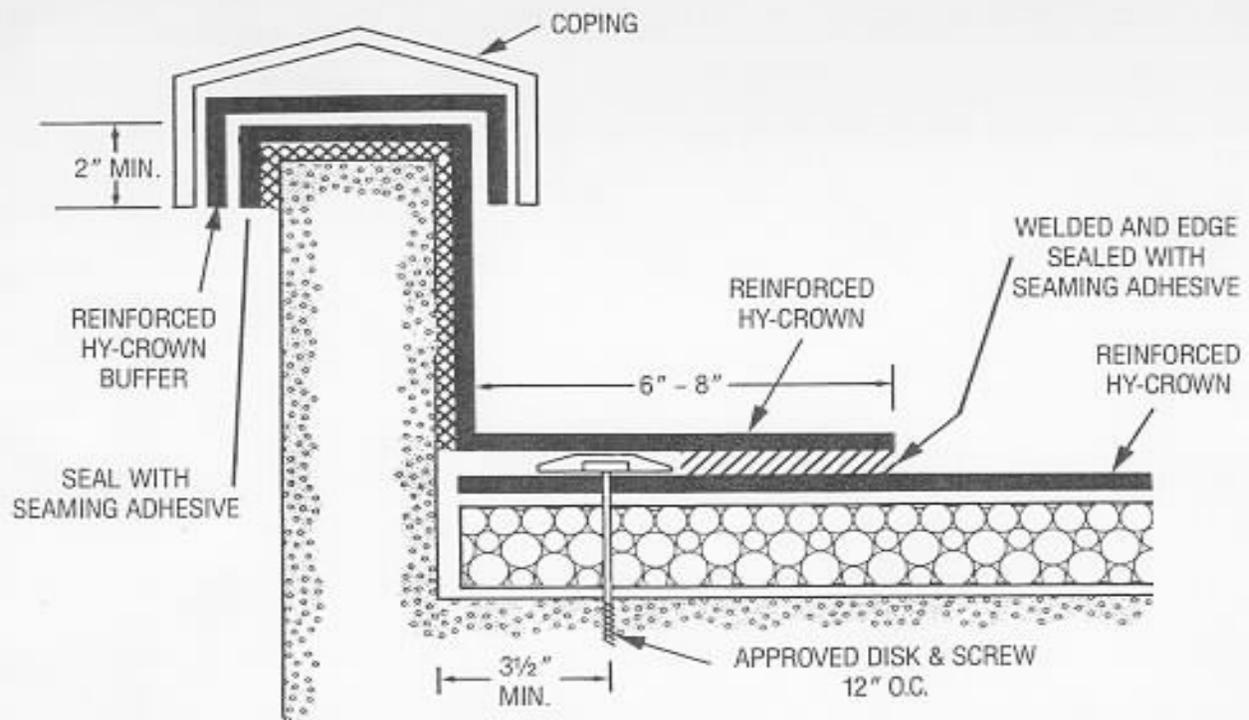
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

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(ALTERNATE)

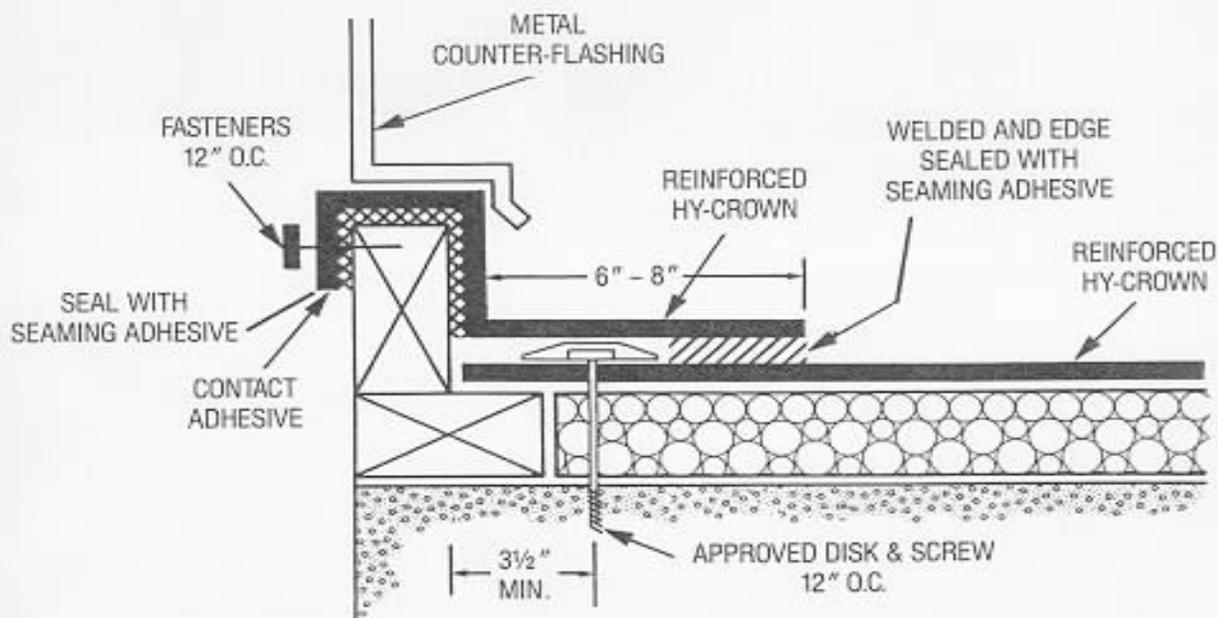
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

PARAPET WITH COPING

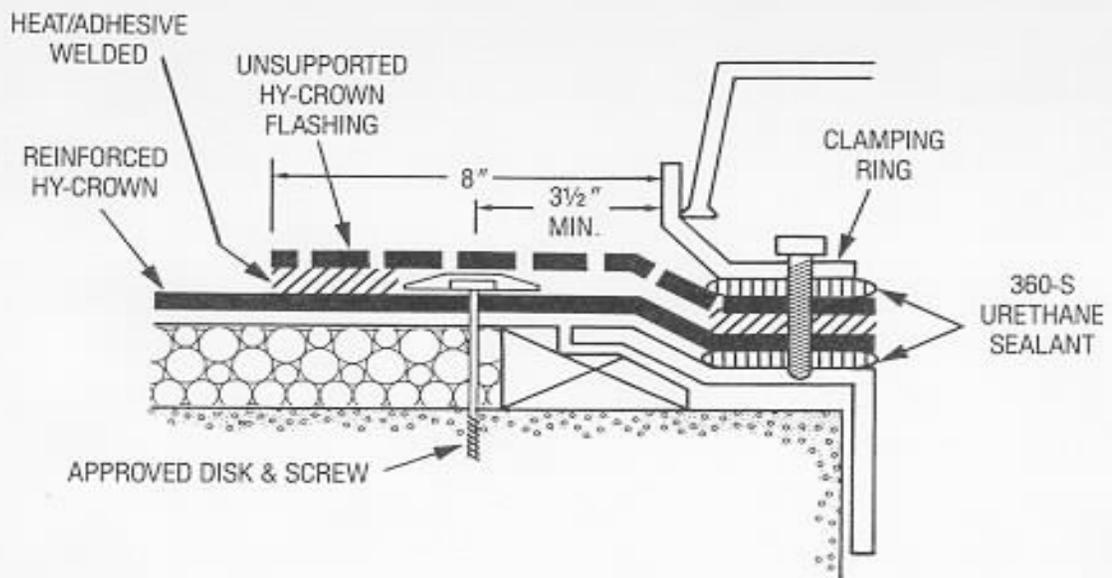
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CONKLIN COMPANY, INC.  
SHAKOPEE, MN

CURB FLASHING

DETAIL NUMBER  
1-10

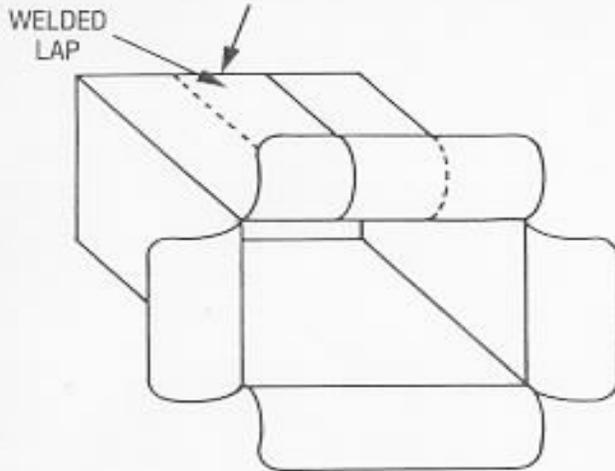


CONKLIN COMPANY, INC.  
 SHAKOPEE, MN

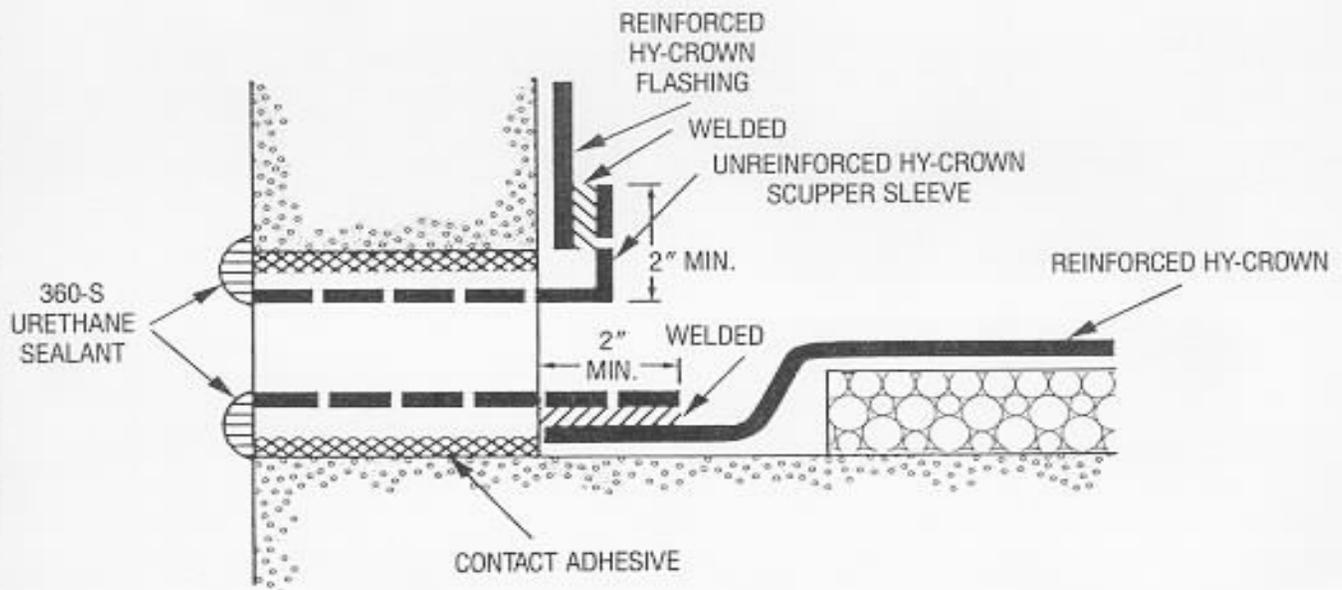
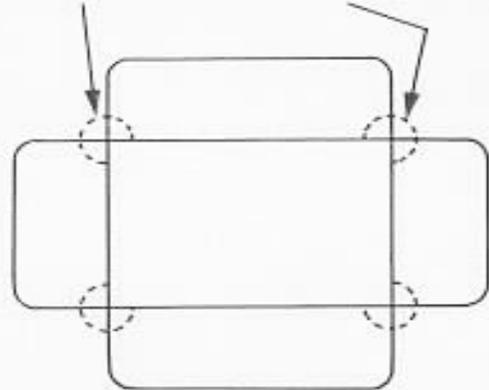
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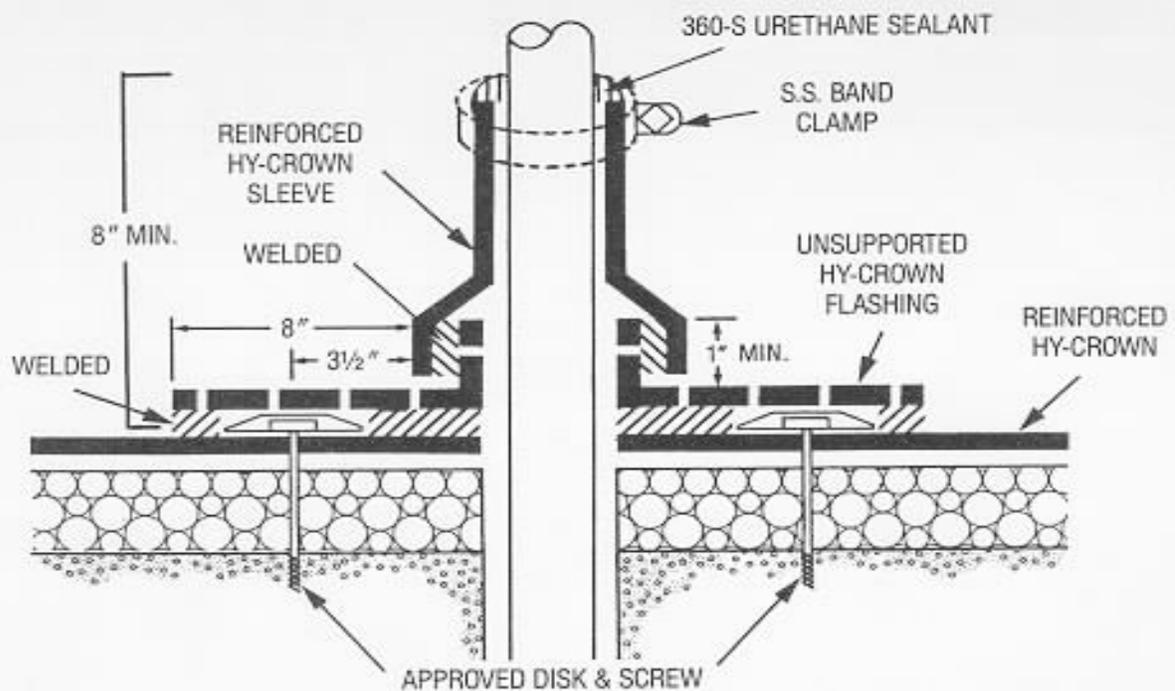
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 1-11

SNUG-FITTING UNREINFORCED  
HY-CROWN SCUPPER SLEEVE  
WITH ROUNDED CORNERS



NOTE: WELD UNREINFORCED  
OUTSIDE CORNERS  
OVER INSTALLED SLEEVE

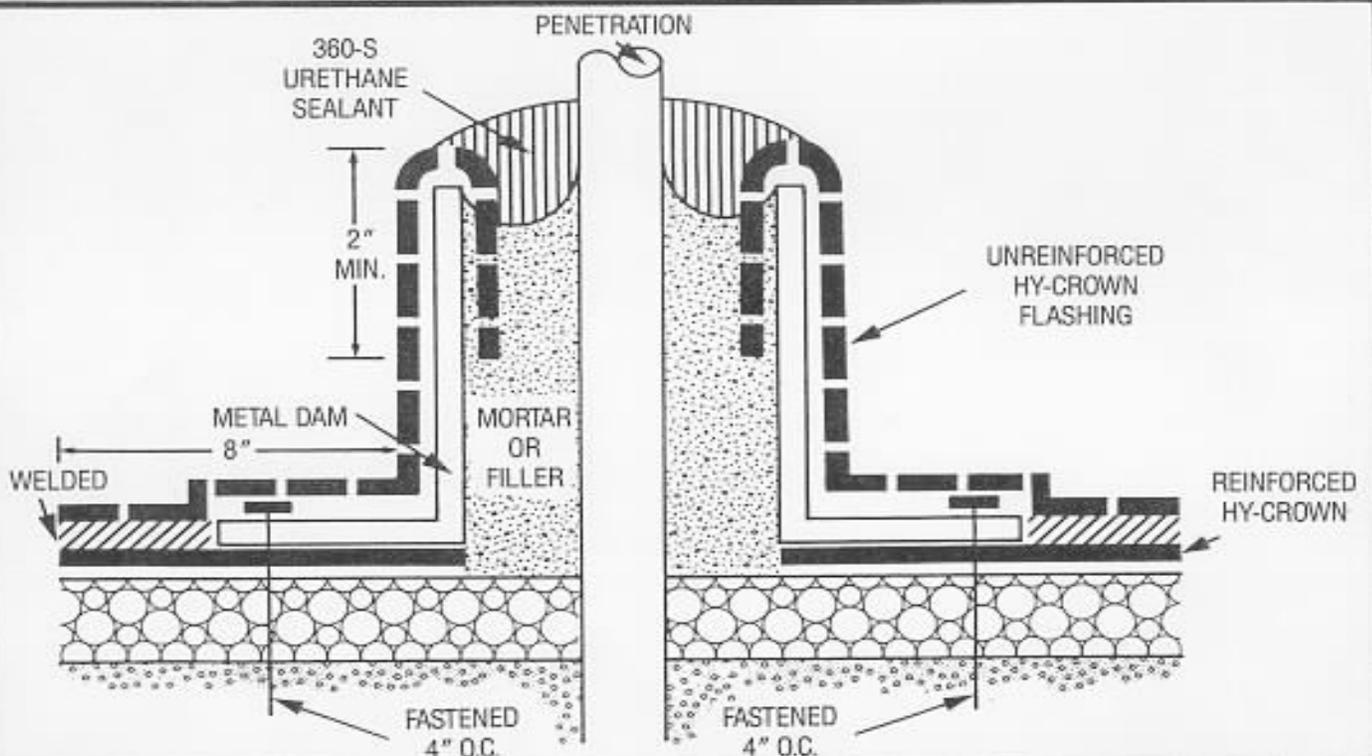




CONKLIN COMPANY, INC.  
SHAKOPEE, MN

VENT STACK

DETAIL NUMBER  
1-13

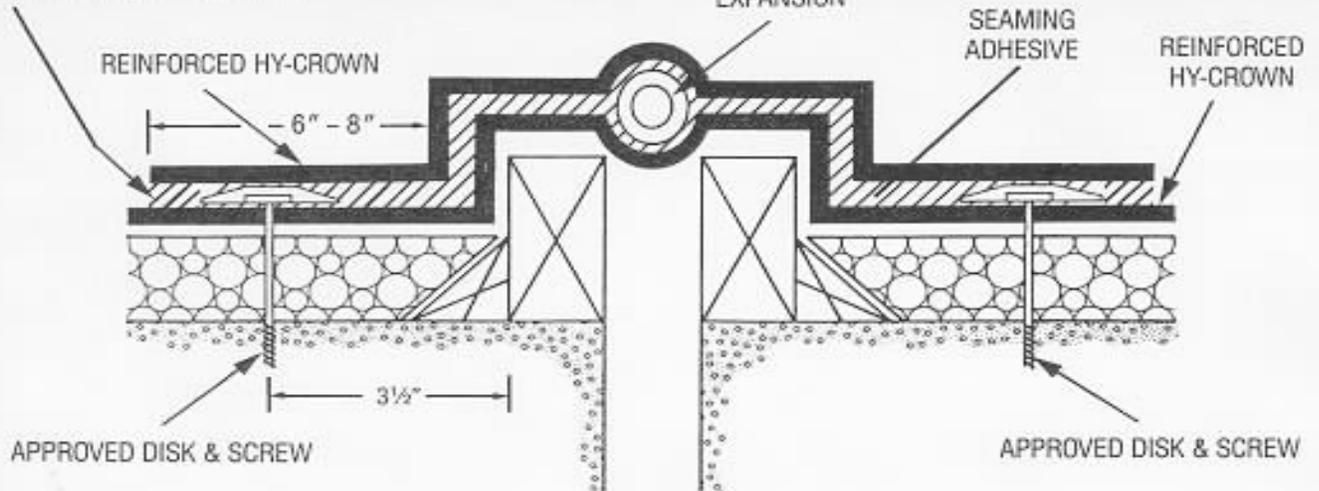


CONKLIN COMPANY, INC.  
SHAKOPEE, MN

PITCH POCKET

DETAIL NUMBER  
1-14

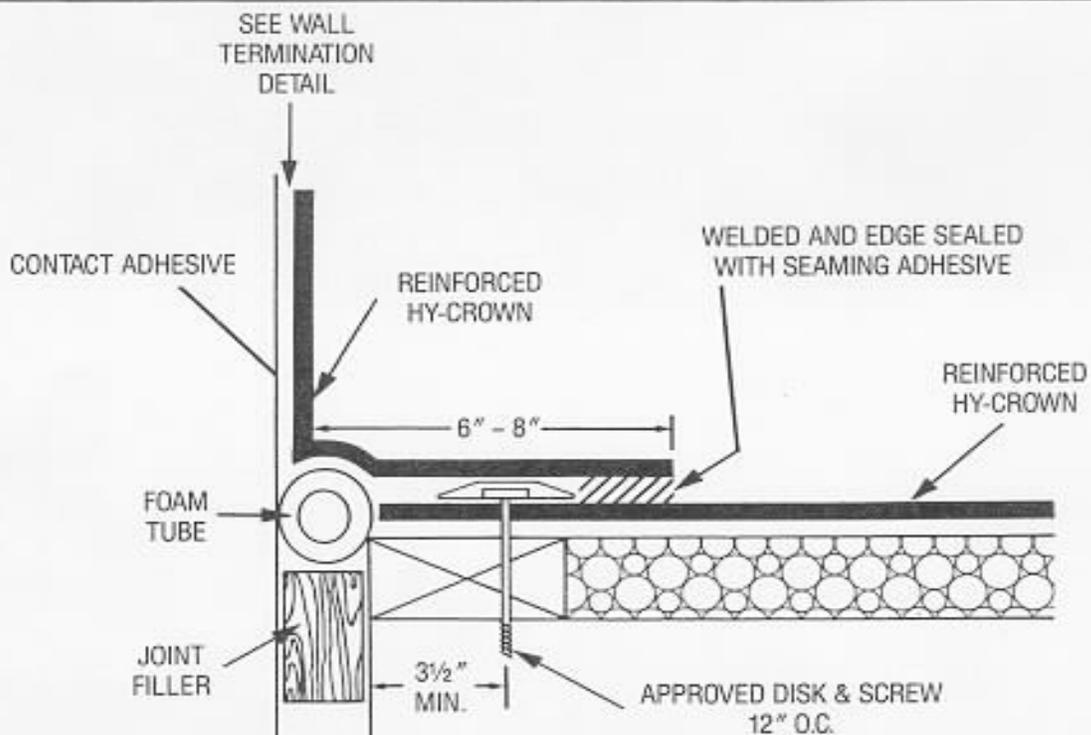
WELDED AND EDGE SEALED  
WITH SEAMING ADHESIVE



CONKLIN COMPANY, INC.  
SHAKOPEE, MN

ROOF EXPANSION JOINT

DETAIL NUMBER  
1-15

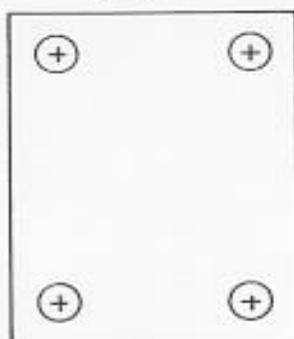


CONKLIN COMPANY, INC.  
SHAKOPEE, MN

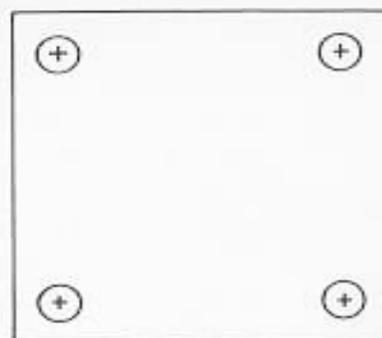
WALL EXPANSION JOINT

DETAIL NUMBER  
1-16

3' x 4'

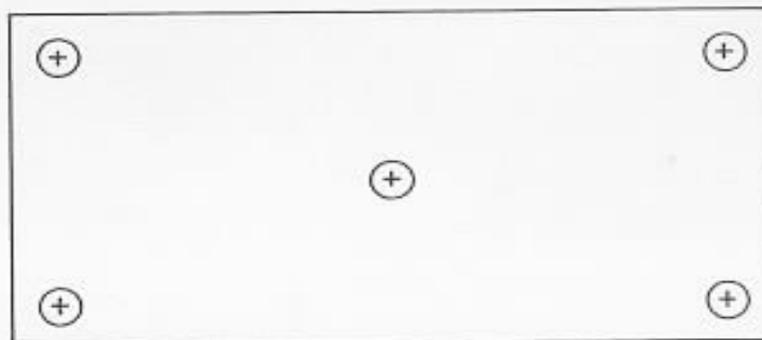


4' x 4'

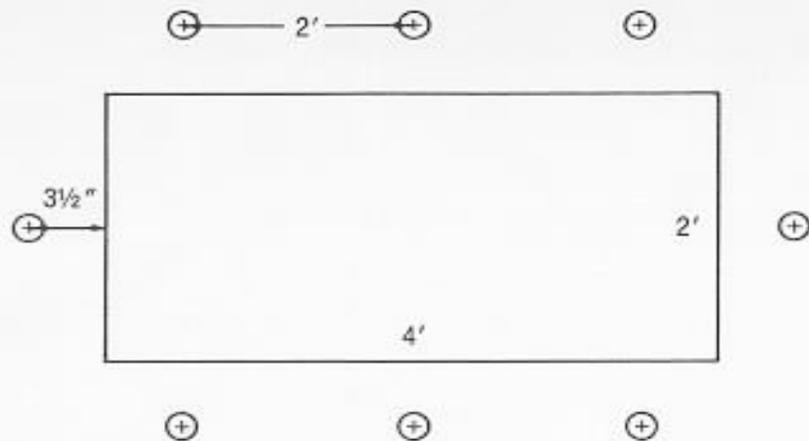


POSITION PLATES SO THAT FASTENERS ARE 6" MINIMUM  
FROM EDGES OF BOARD

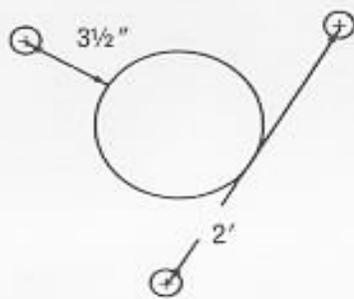
4 x 8'



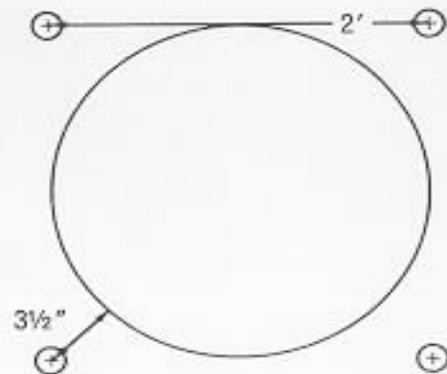
NOTE: THESE FASTENING PATTERNS ARE MINIMUM RECOMMENDATIONS. FACTORY MUTUAL I-60 AND I-90 APPROVED PATTERNS MAY VARY, ACCORDING TO THE INSULATION INVOLVED, AND SHOULD TAKE PRECEDENCE OVER THESE MINIMUMS FOR FM-APPROVED INSTALLATIONS. CONSULT INSULATION MANUFACTURER FOR DETAILS. USE 3" FASTENER PLATES FOR INSULATION FASTENING.



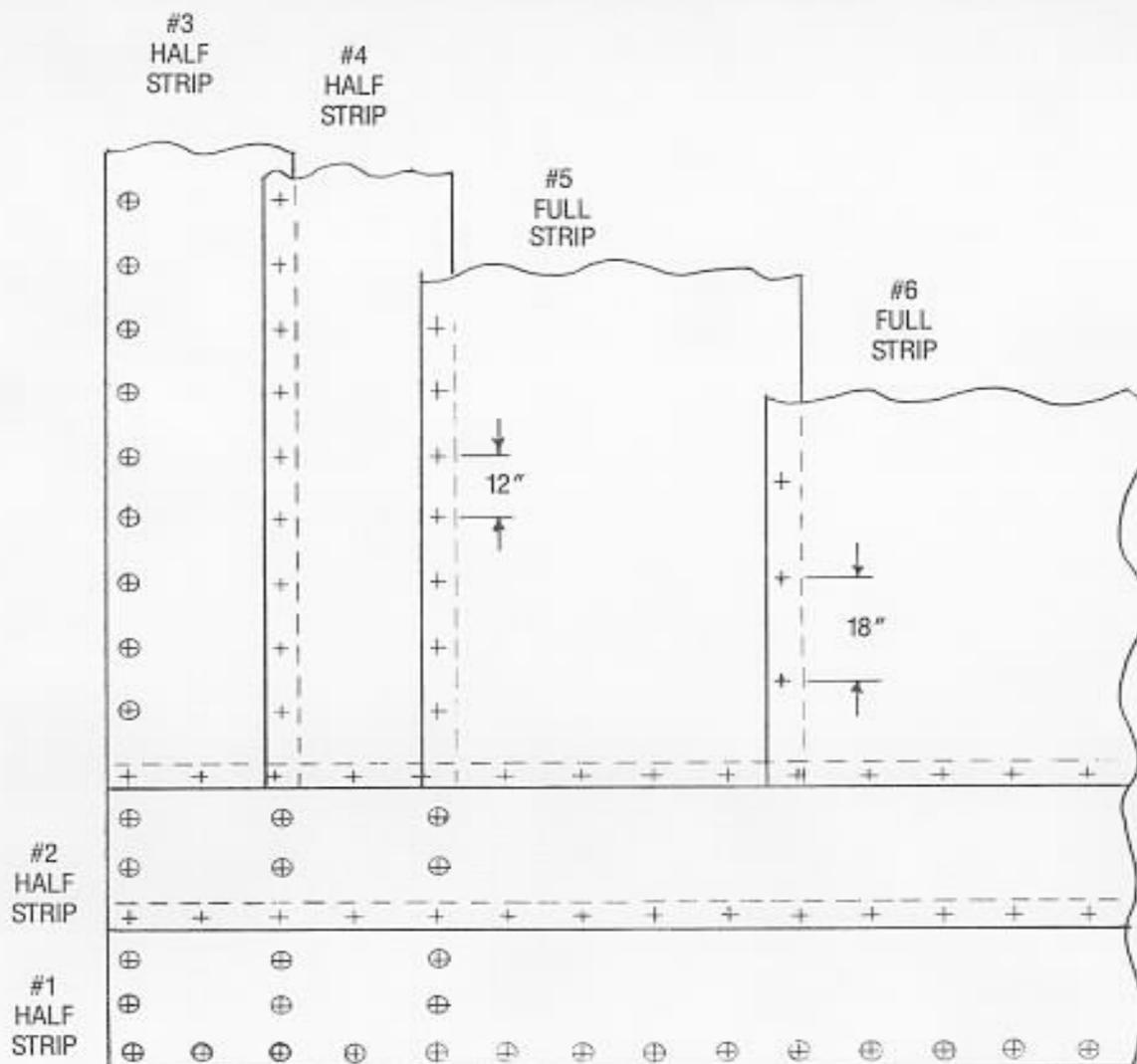
1. PERIMETER OF PENETRATION  $(4 + 2) \times 2 = 12$  LINEAL FEET.
2. ALLOW  $3\frac{1}{2}$ " FROM PERIMETER FOR FASTENER + PLATE SPACING OR 8 FASTENERS AND PLATES.



1. MINIMUM OF THREE FASTENERS.
2. THREE FASTENERS SPACED ON 2' CENTERS, UP TO 20" PENETRATION DIAMETER.
3.  $3\frac{1}{2}$ " FROM CIRCUMFERENCE OF PENETRATION TO C/L OF FASTENER DISC.



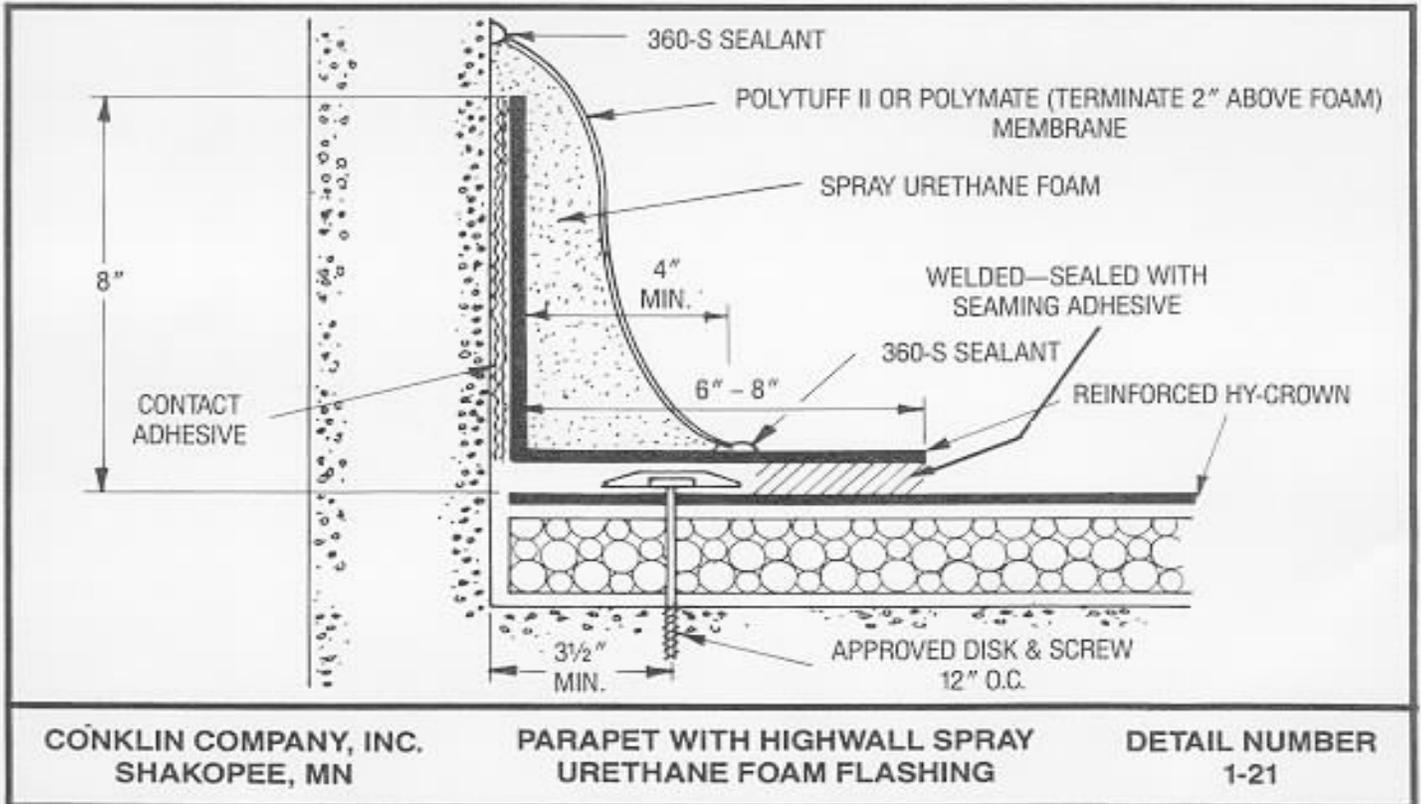
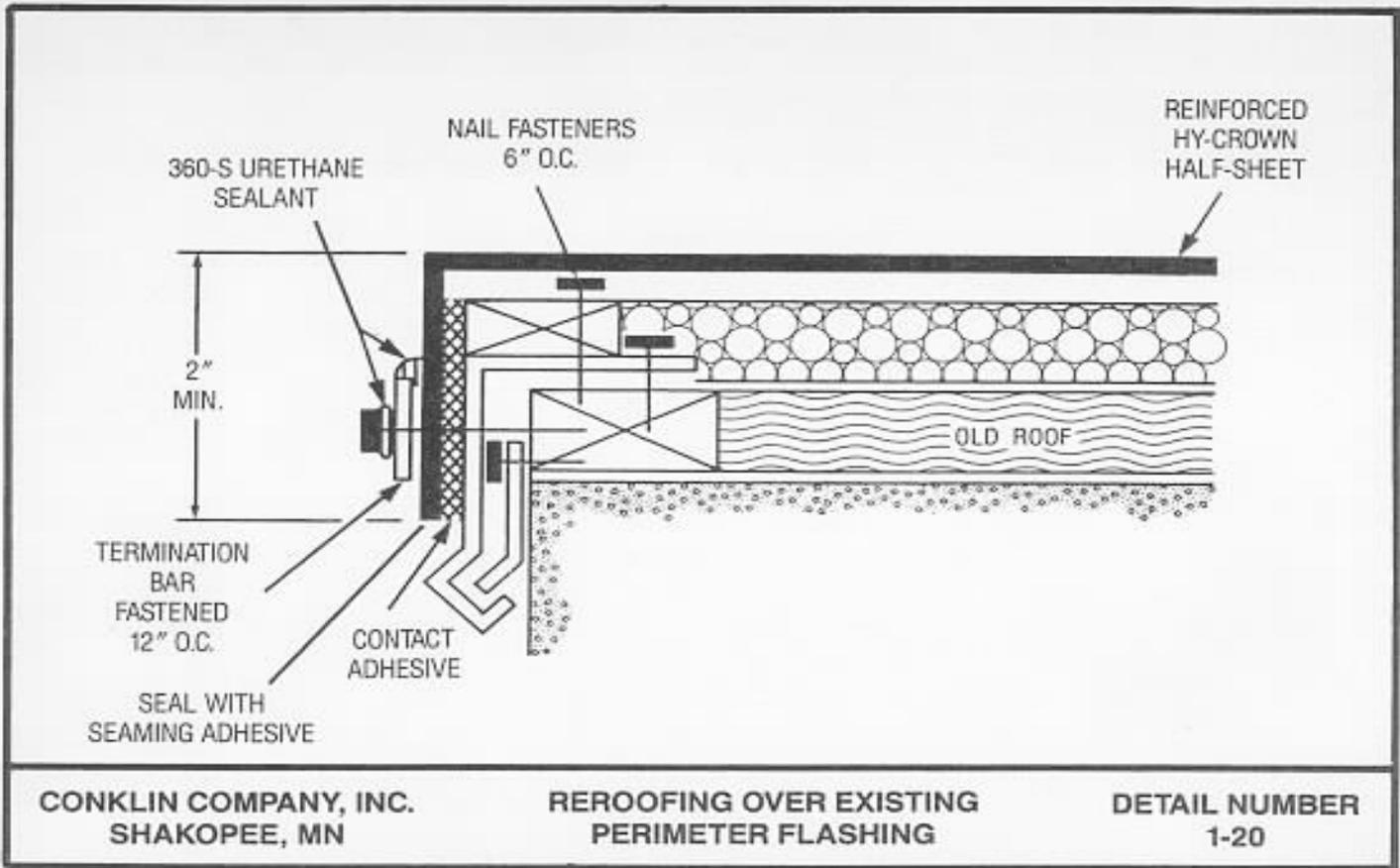
1. FOUR FASTENERS SPACED IN 2' CENTERS, 20" DIAMETER UP TO 30" DIAMETER.
2.  $3\frac{1}{2}$ " FROM CIRCUMFERENCE OF PENETRATION TO C/L OF FASTENER DISC.

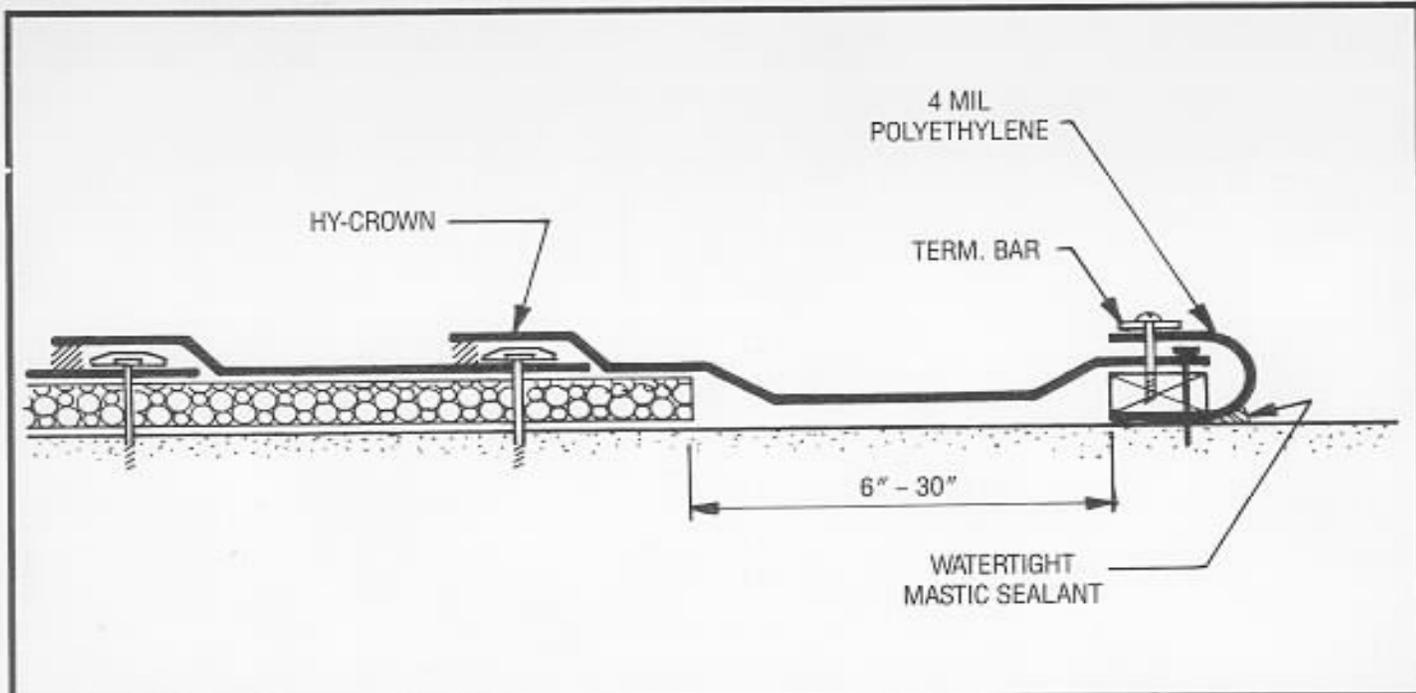


TOP FASTENERS WITH REINFORCED HY-CROWN FASTENER COVERS (SHOW AS ⊕)

TWO HALF-STRIPS AROUND THE PERIMETER-FASTENERS SPACED A MAXIMUM OF 12" APART.  
 FULL STRIPS HAVE FASTENERS SPACED AS INDICATED ON DETAIL #1-23.  
 SEQUENCE OF INSTALLATION INDICATED BY NUMBERS.

THE DRAWING ABOVE DOES NOT REFLECT CURRENT FASTENING REQUIREMENTS BY  
 FACTORY MUTUAL. FOR SPECIFIC DETAILS ON FM I-60 AND I-90 WIND UPLIFT RESISTANCE,  
 REFER TO TECHNICAL BULLETIN B-6-89-18, UPDATED AUGUST 30, 1993, OR CONTACT  
 CONKLIN PRODUCT SERVICES.

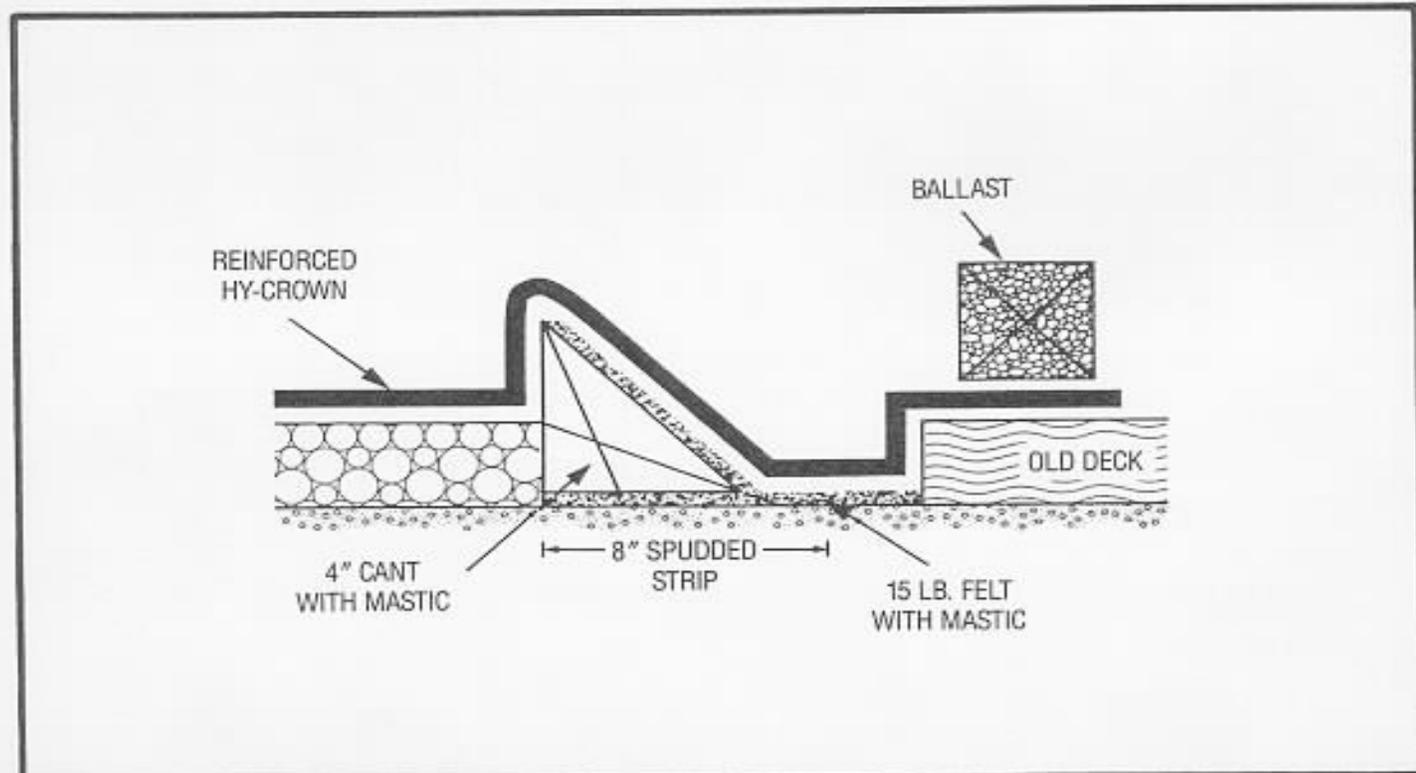




CONKLIN COMPANY, INC.  
SHAKOPEE, MN

WATER CUT-OFF

DETAIL NUMBER  
1-22

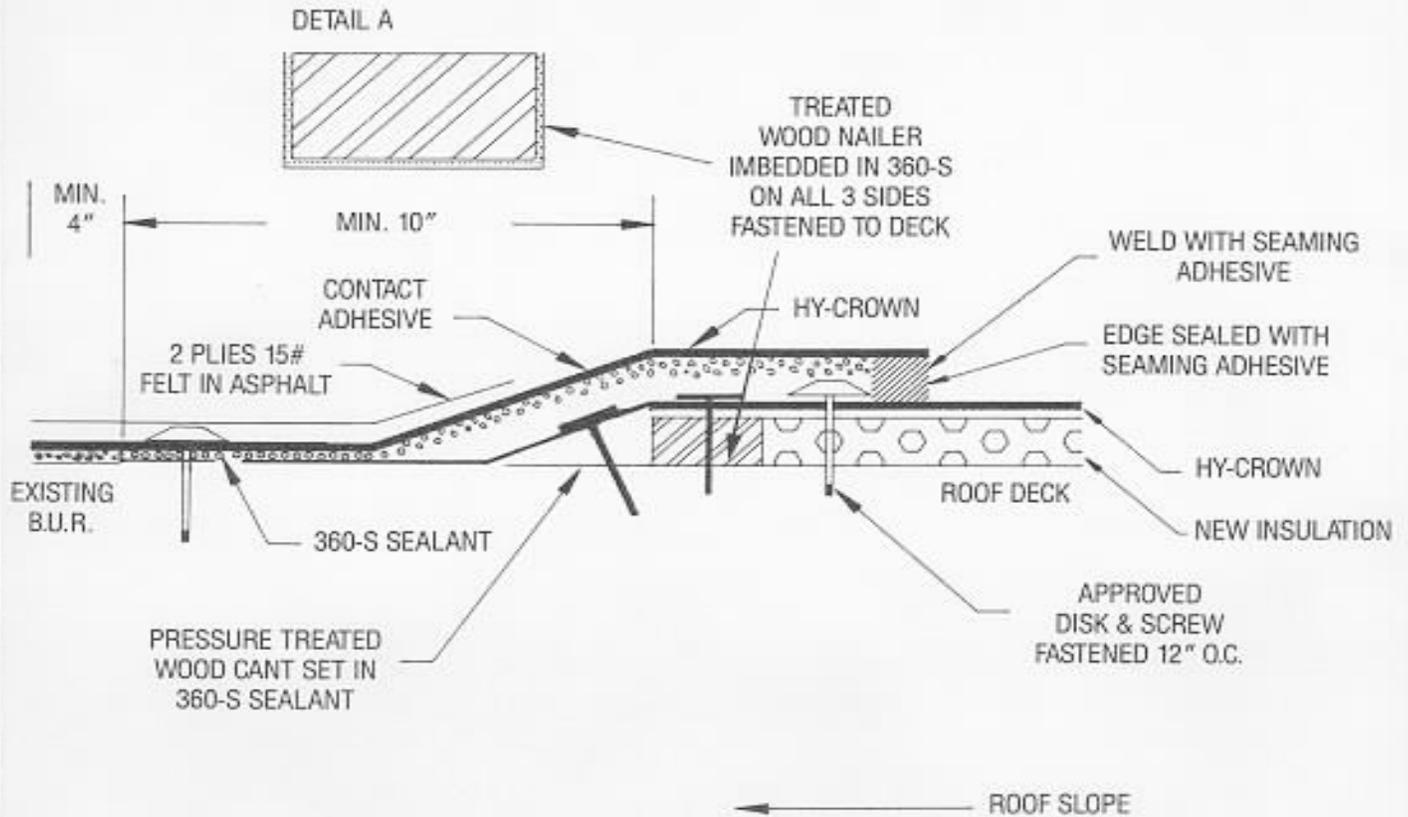


CONKLIN COMPANY, INC.  
SHAKOPEE, MN

WATER CUT-OFF

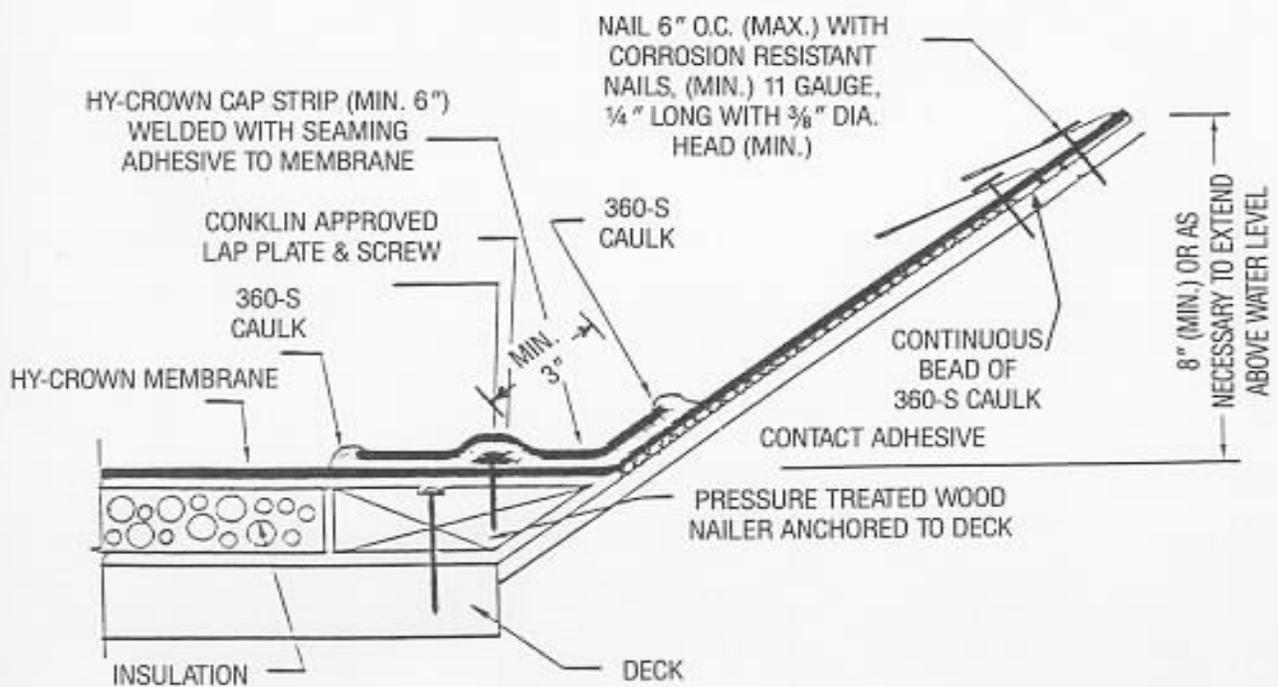
DETAIL NUMBER  
1-23

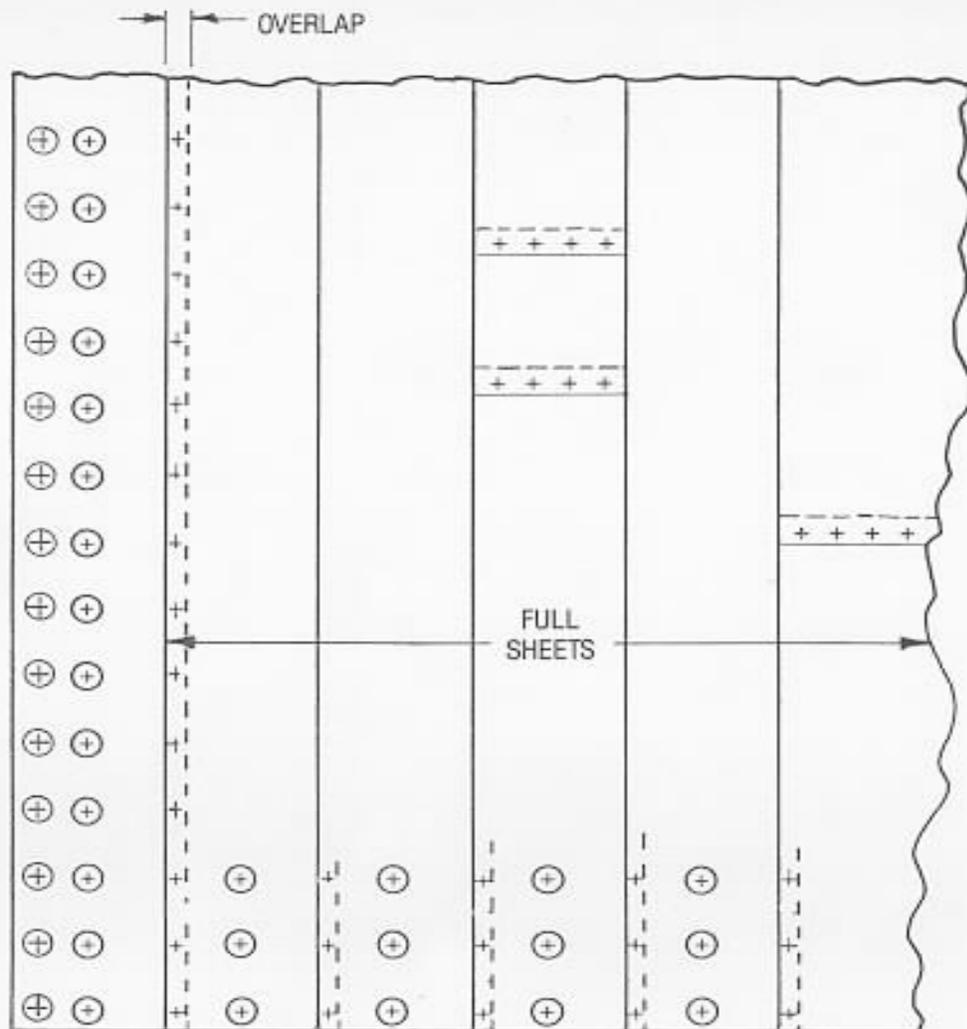
## MECHANICALLY FASTENED SYSTEM



### NOTES

1. SPUD AREA 20" WIDE FOR APPLICATION OF WOOD NAILER, CANT STRIP AND 2 PLY ASPHALT SEAL.
2. FELTS MAY BE PLACED IN EITHER HOT OR COLD ASPHALT MASTIC
3. MIN. 1" THICK INSULATION REQUIRED BENEATH HY-CROWN
4. WOOD NAILER CANT STRIP PRESSURE TREATED WITH WATER BORNE PRESERVATIVE.
5. TIE-INS ARE NOT ELIGIBLE FOR THE CONKLIN COMPANY WARRANTY PROGRAM.





ENDS OF SHEETS ARE LAPPED  $4\frac{1}{2}$ " TO ALLOW FOR FASTENING AND WELDING. FASTENERS ARE INSTALLED ON 12" CENTERS, FLUSH WITH BOTTOM EDGE. ALTERNATE PERIMETER FASTENING WHERE HALF-STRIPS ARE NOT USED IS SHOWN. TOP FASTENERS WITH FASTENER COVERS PLACED IN CENTER OF STRIPS AS INDICATED. FASTENERS GENERALLY PLACED ON 12" CENTERS FOR THE FIRST SIX FEET OF STRIPS FROM EDGE. (SHOWN AS ⊕)

## MECHANICALLY FASTENED SYSTEM

DECK TYPE	PERIMETER SHEETS	FIELD SHEETS
<b>Metal</b>		
24 gauge	12"	12"
22 gauge	12"	18"

Note: Fasteners must project 1/2" minimum through metal deck.

<b>Wood</b>		
1 5/32" and 1/2" plywood	12"	12"
5/8" plywood	12"	12"
3/4" plywood	12"	18"
1 1/2" or thicker plank	12"	18"
3/4" - 1 1/2" tongue and groove	12"	18"
1/2" or thicker tongue and groove	12"	18"

Note: Fasteners must project 1/2" minimum through plywood less than 1" thick.  
Fasteners must penetrate 1" minimum into plank and tongue and groove.

<b>Concrete</b>		
2500 p.s.i. density	12"	18"

Note: Fasteners must penetrate 1" minimum into concrete.

### Other

For lightweight concrete, prestressed concrete, gypsum, tectum or other lightweight decks, contact Conklin Company, Inc. for specific requirements for fasteners and spacing of fasteners.

All projects for warranty will include the proposed fastener spacing when the job approval form is submitted to manufacturer prior to job start-up.

**THE CHART ABOVE DOES NOT REFLECT CURRENT FASTENING REQUIREMENTS BY FACTORY MUTUAL. FOR SPECIFIC DETAILS ON FM I-60 AND I-90 WIND UPLIFT RESISTANCE, REFER TO TECHNICAL BULLETIN B-6-89-18, UPDATED AUGUST 30, 1993, OR CONTACT CONKLIN PRODUCT SERVICES.**

**General Decision Number KY000006**

General Decision Number KY000006 Superseded General Decision No. KY990006

State: Kentucky

Construction Type:

BUILDING

County(ies):

FAYETTE

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	02/11/2000
1	06/02/2000
2	08/11/2000
3	09/01/2000
4	10/06/2000
5	12/01/2000

COUNTY(ies):

FAYETTE

CARP1650C 06/01/2000

	Rates	Fringes
CARPENTERS (Excluding Batt Insulation): Installating Acoustical Ceiling and Cabinets	16.52	4.99

ELEV0020C 10/01/2000

	Rates	Fringes
ELEVATOR MECHANICS	24.865	7.195+a+b

FOOTNOTES:

- a. Seven Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; & Christmas Day
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ENGI0181N 06/01/2000

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
GROUP 1	19.55	6.90
GROUP 2	16.81	6.90
GROUP 3	16.04	6.90
POWER EQUIPMENT OPERATOR CLASSIFICATIONS		
GROUP 1 - Crane; Hoe Type Machine; Motor Scrapper; Motor Grader; Roller (Bituminous); Truck Crane; Tower Crane (French, German & Other Types); Hydrocrane; & Forklift (Regardless of Lift Height)		
GROUP 2 - Form Grader; Roller (Rock); & Whirley Oiler		
GROUP 3 - Roller (Earth); Oiler; & Truck Crane Oiler		
CRANE WITH BOOM 150 FEET & OVER, INCLUDING JIB SHALL RECEIVE \$.50 ABOVE GROUP 1		

SFKY0669A 04/01/2000

	Rates	Fringes
SPRINKLER FITTERS	23.05	7.45

\* SHEE0110J 12/01/2000

	Rates	Fringes
SHEET METAL WORKERS:		
HVAC Duct Work & Setting Units	24.16	8.06
-----		
SUKY1034A 05/01/1990		
	Rates	Fringes
BRICKLAYERS	12.00	
CARPENTERS (Excluding Batt Insulation):		
Form Work	11.39	1.47
All Work (Including Drywall Hanging, but Excluding Form Work, Installing Acoustical Ceilings & Cabinets)	11.32	1.99
CAULKERS	10.97	
CEMENT MASONS	12.01	2.25
DRYWALL FINISHERS	10.00	
ELECTRICIANS (Including Fire & Burglar Alarms, but Excluding HVAC Control Wiring)	9.55	.77
GLAZIERS	9.93	1.15
HEATING, VENTILATION & AIR CONDITIONING MECHANICS (Startups, Air Flow & Control Wiring)	11.38	1.43
IRONWORKERS, Structural	11.26	1.24
LABORERS (Excluding Blown Insulation):		
Asphalt Raker	9.09	2.30
Brick Mason Tender/Hod Carrier	7.62	
Unskilled	7.52	
OVERHEAD DOOR INSTALLERS	7.50	.89
PAINTERS (Excluding Drywall Finishing)	8.91	1.30
PIPEFITTERS:		
HVAC Work	13.11	1.66
All Other Work	14.86	2.60
PLUMBERS (Excluding HVAC Work)	13.78	1.86
POWER EQUIPMENT OPERATORS:		
Bulldozer	10.96	1.25
ROOFERS	9.26	
SHEET METAL WORKERS:		
All Other Work	12.42	
SOFT FLOOR LAYERS	10.32	
TRUCK DRIVERS	7.29	
WATERPROOFERS	9.98	

-----  
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.  
=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).  
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In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

\* an existing published wage determination

- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
 Wage and Hour Division  
 U. S. Department of Labor  
 200 Constitution Avenue, N. W.  
 Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
 U.S. Department of Labor  
 200 Constitution Avenue, N. W.  
 Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
 U. S. Department of Labor  
 200 Constitution Avenue, N. W.  
 Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

## REPRESENTATIONS, CERTIFICATIONS AND CLAUSES

### CLAUSES INCORPORATED BY REFERENCE:

52.202-1 Alt I	Definitions (Oct 1995) --Alternate I	APR 1984
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-7	Anti-Kickback Procedures	JUL 1995
52.222-3	Convict Labor	AUG 1996
52.222-6	Davis Bacon Act	FEB 1995
52.222-7	Withholding of Funds	FEB 1988
52.222-8	Payrolls and Basic Records	FEB 1988
52.222-9	Apprentices and Trainees	FEB 1988
52.222-10	Compliance with Copeland Act Requirements	FEB 1988
52.222-11	Subcontracts (Labor Standards)	FEB 1988
52.222-12	Contract Termination-Debarment	FEB 1988
52.222-13	Compliance with Davis-Bacon and Related Act Regulations.	FEB 1988
52.222-14	Disputes Concerning Labor Standards	FEB 1988
52.222-15	Certification of Eligibility	FEB 1988
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	FEB 1999
52.223-5	Pollution Prevention and Right-to-Know Information	APR 1998
52.223-6	Drug Free Workplace	JAN 1997
52.227-4	Patent Indemnity-Construction Contracts	APR 1984
52.228-5	Insurance - Work On A Government Installation	JAN 1997
52.232-5	Payments under Fixed-Price Construction Contracts	MAY 1997
52.232-23	Assignment Of Claims	JAN 1986
52.232-27	Prompt Payment for Construction Contracts	JUN 1997
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	MAY 1999
52.233-3	Protest After Award	AUG 1996
52.236-2	Differing Site Conditions	APR 1984
52.236-3	Site Investigation and Conditions Affecting the Work	APR 1984
52.236-5	Material and Workmanship	APR 1984
52.236-6	Superintendence by the Contractor	APR 1984
52.236-7	Permits and Responsibilities	NOV 1991
52.236-8	Other Contracts	APR 1984
52.236-9	Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements	APR 1984
52.236-10	Operations and Storage Areas	APR 1984
52.236-11	Use and Possession Prior to Completion	APR 1984
52.236-12	Cleaning Up	APR 1984
52.236-13 Alt I	Accident Prevention (Nov 1991) - Alternate I	NOV 1991
52.236-26	Preconstruction Conference	FEB 1995
52.242-14	Suspension of Work	APR 1984
52.243-5	Changes and Changed Conditions	APR 1984
52.246-12	Inspection of Construction	AUG 1996
52.246-21	Warranty of Construction	MAR 1994
52.249-1	Termination For Convenience Of The Government (Fixed Price) (Short Form)	APR 1984
52.249-10	Default (Fixed-Price Construction)	APR 1984
252.201-7000	Contracting Officer's Representative	DEC 1991
252.223-7001	Hazard Warning Labels	DEC 1991
252.236-7000	Modification Proposals-Price Breakdown	DEC 1991
252.243-7001	Pricing Of Contract Modifications	DEC 1991

**CLAUSES INCORPORATED BY FULL TEXT :**

52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

Common parent, as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

Taxpayer Identification Number (TIN), as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

\_\_\_ TIN:.....

\_\_\_ TIN has been applied for.

\_\_\_ TIN is not required because:

\_\_\_ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

\_\_\_ Offeror is an agency or instrumentality of a foreign government;

\_\_\_ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

\_\_\_ Sole proprietorship;

\_\_\_ Partnership;

\_\_\_ Corporate entity (not tax-exempt);

\_\_\_ Corporate entity (tax-exempt);

\_\_\_ Government entity (Federal, State, or local);

- \_\_\_ Foreign government;
- \_\_\_ International organization per 26 CFR 1.6049-4;
- \_\_\_ Other-----

(f) Common parent.

\_\_\_ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

\_\_\_ Name and TIN of common parent:

Name-----

TIN-----

(End of provision)

52.204-6 DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (JUN 99)

(a) Contractor identification is essential for complying with statutory contract reporting requirements. Therefore, the offeror is requested to enter, in the block with its name and address on the Standard Form 33 or similar document, the annotation "DUNS" followed by the DUNS number which identifies the offeror's name and address exactly as stated in the offer.

(b) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one. A DUNS number will be provided immediately by telephone at no charge to the offeror. For information on obtaining a DUNS number, the offeror, if located within the United States, should call Dun and Bradstreet at 1-800-333-0505. The offeror should be prepared to provide the following information:

- (1) Company name.
- (2) Company address.
- (3) Company telephone number.
- (4) Line of business.
- (5) Chief executive officer/key manager.
- (6) Date the company was started.
- (7) Number of people employed by the company.
- (8) Company affiliation.

(c) Offerors located outside the United States may obtain the location and phone number of the local Dun and Bradstreet Information Services office from the Internet Home Page at <http://www.customerservice@dnb.com/>. If an offeror is unable to locate a local service center, it may send an e-mail to Dun and Bradstreet at [globalinfo@dnb.com](mailto:globalinfo@dnb.com).

(End of provision)

52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (OCT 2000)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is **235610**.

(2) The small business size standard is \$11,500,000.00.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) Representations. (1) The offeror represents as part of its offer that it ( ) is, ( ) is not a small business concern.

(2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it ( ) is, ( ) is not a small disadvantaged business concern as defined in 13 CFR 124-1002.

(3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it ( ) is, ( ) is not a women-owned small business concern.

(4) [Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.] The offeror represents as part of its offer that it [ ] is, [ ] is not a veteran-owned small business concern.

(5) [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.] The offeror represents as part of its offer that it [ ] is, [ ] is not a service-disabled veteran-owned small business concern.

(c) Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Small disadvantaged business concern, as used in this provision, means a small business concern that (1) is at least 51 percent unconditionally owned by one or more individuals who are both socially and economically disadvantaged, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more socially and economically disadvantaged individuals, and (2) has its management and daily business controlled by one or more such individuals. This term also means a small business concern that is at least 51 percent unconditionally owned by an economically disadvantaged Indian tribe or Native Hawaiian Organization, or a publicly owned business having at least 51 percent of its stock unconditionally owned by one or more of these entities, which has its management and daily business

controlled by members of an economically disadvantaged Indian tribe or Native Hawaiian Organization, and which meets the requirements of 13 CFR Part 124.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

(d) Notice. (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

52.219-6 NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUL 1996)

(a) Definition.

"Small business concern," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) General. (1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) Any award resulting from this solicitation will be made to a small business concern.

(c) Agreement. A small business concern submitting an offer in its own name agrees to furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States. The term "United States" includes its territories and possessions, the Commonwealth of Puerto Rico, the Trust Territory of the Pacific Islands, and the District of Columbia. If this procurement is processed under simplified acquisition procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply in connection with construction or service contracts.

(End of clause)

52.219-9 SMALL BUSINESS SUBCONTRACTING PLAN (OCT 2000)

(a) This clause does not apply to small business concerns.

(b) Definitions. As used in this clause--

Commercial item means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

Commercial plan means a subcontracting plan (including goals) that covers the offeror's fiscal year and that applies to the entire production of commercial items sold by either the entire company or a portion thereof (e.g., division, plant, or product line).

Individual contract plan means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offeror's planned subcontracting in support of the specific contract, except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

Master plan means a subcontracting plan that contains all the required elements of an individual contract plan, except goals, and may be incorporated into individual contract plans, provided the master plan has been approved.

Subcontract means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

(c) The offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately addresses subcontracting with small business, veteran-owned small business, HUBZone small business concerns, small disadvantaged business, and women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business, veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns, with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the offeror ineligible for award of a contract.

(d) The offeror's subcontracting plan shall include the following:

(1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business, veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. Service-disabled veteran-owned small business concerns meet the definition of veteran-owned small business concerns, and offerors may include them within the subcontracting plan goal for veteran-owned small business concerns. A separate goal for service-disabled veteran-owned small business concerns is not required. The offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs.

(2) A statement of--

(i) Total dollars planned to be subcontracted for an individual contract plan; or the offeror's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;

(ii) Total dollars planned to be subcontracted to small business concerns;

(iii) Total dollars planned to be subcontracted to veteran-owned small business concerns;

(iv) Total dollars planned to be subcontracted to HUBZone small business concerns;

- (v) Total dollars planned to be subcontracted to small disadvantaged business concerns; and
  - (vi) Total dollars planned to be subcontracted to women-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to--
- (i) Small business concerns;
  - (ii) Veteran-owned small business concerns;
  - (iii) HUBZone small business concerns;
  - (iv) Small disadvantaged business concerns; and
  - (v) Women-owned small business concerns.
- (4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.
- (5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, the Procurement Marketing and Access Network (PRO-Net) of the Small Business Administration (SBA), veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in PRO-Net as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, HUBZone small, small disadvantaged, and women-owned small business source list. Use of PRO-Net as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.
- (6) A statement as to whether or not the offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with—
- (i) Small business concerns;
  - (ii) Veteran-owned small business concerns;
  - (iii) HUBZone small business concerns;
  - (iv) Small disadvantaged business concerns; and
  - (v) Women-owned small business concerns.
- (7) The name of the individual employed by the offeror who will administer the offeror's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts the offeror will make to assure that small business, veteran-owned small business, HUBZone small business, small disadvantaged business and women-owned small business concerns have an equitable opportunity to compete for subcontracts.
- (9) Assurances that the offeror will include the clause of this contract entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that the offeror will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$500,000 (\$1,000,000 for construction of any public facility) to adopt a subcontracting plan that complies with the requirements of this clause.

(10) Assurances that the offeror will--

(i) Cooperate in any studies or surveys as may be required;

(ii) Submit periodic reports so that the Government can determine the extent of compliance by the offeror with the subcontracting plan;

(iii) Submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts, and/or SF 295, Summary Subcontract Report, in accordance with paragraph (j) of this clause. The reports shall provide information on subcontract awards to small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, small disadvantaged business concerns, women-owned small business concerns, and Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with the instructions on the forms or as provided in agency regulations.

(iv) Ensure that its subcontractors agree to submit SF 294 and SF 295.

(11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror's efforts to locate small business, veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated)

(i) Source lists (e.g., PRO-Net), guides, and other data that identify small business, veteran-owner small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.

(ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.

(iii) Records on each subcontract solicitation resulting in an award of more than \$100,000, indicating--

(A) Whether small business concerns were solicited and, if not, why not;

(B) Whether veteran-owned small business concerns were solicited and, if not, why not;

(C) Whether HUBZone small business concerns were solicited and, if not, why not;

(D) Whether small disadvantaged business concerns were solicited and, if not, why not;

(E) Whether women-owned small business concerns were solicited and, if not, why not; and

(F) If applicable, the reason award was not made to a small business concern.

(iv) Records of any outreach efforts to contact--

(A) Trade associations;

(B) Business development organizations;

(C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, and women-owned small business sources; and

(D) Veterans service organizations.

(v) Records of internal guidance and encouragement provided to buyers through--

(A) Workshops, seminars, training, etc.; and

(B) Monitoring performance to evaluate compliance with the program's requirements.

(vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.

(e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:

(1) Assist small business, veteran-owner small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small business, veteran-owner small business, HUBZone small business, small disadvantaged business, and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.

(2) Provide adequate and timely consideration of the potentialities of small business, veteran-owner small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.

(3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owner small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.

(4) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owner small business, HUBZone small, small disadvantaged, or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.

(f) A master plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the offeror by this clause; provided--

(1) the master plan has been approved, (2) the offeror ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval, to the Contracting Officer, and (3) goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.

(g) A commercial plan is the preferred type of subcontracting plan for contractors furnishing commercial items. The commercial plan shall relate to the offeror's planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Commercial plans are also preferred for subcontractors that provide commercial items under a prime contract, whether or not the prime contractor is supplying a commercial item.

(h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.

(i) The failure of the Contractor or subcontractor to comply in good faith with (1) the clause of this contract entitled "Utilization Of Small Business Concerns," or (2) an approved plan required by this clause, shall be a material breach of the contract.

(j) The Contractor shall submit the following reports:

(1) Standard Form 294, Subcontracting Report for Individual Contracts. This report shall be submitted to the Contracting Officer semiannually and at contract completion. The report covers subcontract award data related to this contract. This report is not required for commercial plans.

(2) Standard Form 295, Summary Subcontract Report. This report encompasses all of the contracts with the awarding agency. It must be submitted semi-annually for contracts with the Department of Defense and annually for contracts with civilian agencies. If the reporting activity is covered by a commercial plan, the reporting activity must report annually all subcontract awards under that plan. All reports submitted at the close of each fiscal year (both individual and commercial plans) shall include a breakout, in the Contractor's format, of subcontract awards, in whole dollars, to small disadvantaged business concerns by North American Industry Classification System (NAICS) Industry Subsector. For a commercial plan, the Contractor may obtain from each of its subcontractors a predominant NAICS Industry Subsector and report all awards to that subcontractor under its predominant NAICS Industry Subsector.

(End of clause)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a)  It has,  has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b)  It has,  has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997)

(a) "Hazardous material", as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material Identification No.  
(If none,  
insert "None")

_____	_____
_____	_____
_____	_____

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

(ii) Obtain medical treatment for those affected by the material; and

(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

(End of clause)

52.225-9 BUY AMERICAN ACT--BALANCE OF PAYMENTS PROGRAM--CONSTRUCTION MATERIALS (FEB 2000)

(a) Definitions. As used in this clause--

Component means any article, material, or supply incorporated directly into construction materials.

Construction material means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means--

(1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

(2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

Domestic construction material means--

(1) An unmanufactured construction material mined or produced in the United States; or

(2) A construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.

Foreign construction material means a construction material other than a domestic construction material.

United States means the 50 States and the District of Columbia, U.S. territories and possessions, Puerto Rico, the Northern Mariana Islands, and any other place subject to U.S. jurisdiction, but does not include leased bases.

(b) Domestic preference. (1) This clause implements the Buy American Act (41 U.S.C. 10a-10d) and the Balance of Payments Program by providing a preference for domestic construction material. The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.

(2) This requirement does not apply to the construction material or components listed by the Government as follows: [Contracting Officer to list applicable excepted materials or indicate "none"]

(3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that

(i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent. For determination of unreasonable cost under the Balance of Payments Program, the Contracting Officer will use a factor of 50 percent;

(ii) The application of the restriction of the Buy American Act or Balance of Payments Program to a particular construction material would be impracticable or inconsistent with the public interest; or

(iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) Request for determination of inapplicability of the Buy American Act or Balance of Payments Program.

(1)(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including--

(A) A description of the foreign and domestic construction materials;

(B) Unit of measure;

- (C) Quantity;
- (D) Price;
- (E) Time of delivery or availability;
- (F) Location of the construction project;
- (G) Name and address of the proposed supplier; and
- (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American Act or Balance of Payments Program applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American Act or Balance of Payments Program applies, use of foreign construction material is noncompliant with the Buy American Act or Balance of Payments Program.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) \1\
Item 1			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....
Item 2			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....

Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).

List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.

Include other applicable supporting information.

(End of clause)

52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) Site visits may be arranged during normal duty hours by contacting:

Name:

Address:

Telephone:

52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://farsite.hill.af.mil>

<http://www.dtic.mil/dfars>

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://farsite.hill.af.mil>

<http://www.dtic.mil/dfars>

52.252-4 ALTERATIONS IN CONTRACT (APR 1984)

Portions of this contract are altered as follows:

N/A

(End of clause)

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any \_\_\_ (48 CFR \_\_\_) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

52.0-4031 CORPORATE CERTIFICATION

IF A BIDDER IS A CORPORATION OR IF CORPORATION IS PARTICIPATING IN A JOINT VENTURE, PLEASE COMPLETE THE FOLLOWING CERTIFICATION:

I, \_\_\_\_\_, certify that I am secretary of the corporation named as Contractor herein; that \_\_\_\_\_ who signed this contract on behalf of the Contractor; was then \_\_\_\_\_ of said corporation; that said contract was duly signed for and on behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(CORPORATE SEAL)

\_\_\_\_\_  
(Secretary)

MUST IF A CORPORATION IS PARTICIPATING AS A JOINT VENTURE, ITS SECRETARY SUBMIT A CERTIFICATE STATING THE CORPORATION IS AUTHORIZED TO PARTICIPATE.

252.204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (AUG 199)

(a) The offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter "CAGE" before the number.

(b) If the offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Information Service (DLIS). The Contracting Officer will--

(1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;

(2) Complete section A and forward the form to DLIS; and

(3) Notify the Contractor of its assigned CAGE code.

(c) Do not delay submission of the offer pending receipt of a CAGE code.

(End of provision)

252.204-7004 REQUIRED CENTRAL CONTRACTOR REGISTRATION.(MAR 2000)

(a) Definitions.

As used in this clause--

(1) Central Contractor Registration (CCR) database means the primary DoD repository for contractor information required for the conduct of business with DoD.

(2) Data Universal Numbering System (DUNS) number means the 9-digit number assigned by Dun and Bradstreet Information Services to identify unique business entities.

(3) Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet plus a 4-digit suffix that may be assigned by a parent (controlling) business concern. This 4-digit suffix may be assigned at the discretion of the parent business concern for such purposes as identifying subunits or affiliates of the parent business concern.

(4) Registered in the CCR database means that all mandatory information, including the DUNS number or the DUNS+4 number, if applicable, and the corresponding Commercial and Government Entity (CAGE) code, is in the CCR database; the DUNS number and the CAGE code have been validated; and all edits have been successfully completed.

(b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee must be registered in the CCR database prior to award, during performance, and through final payment of any contract resulting from this solicitation, except for awards to foreign vendors for work to be performed outside the United States.

(2) The offeror shall provide its DUNS or, if applicable, its DUNS+4 number with its offer, which will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(3) Lack of registration in the CCR database will make an offeror ineligible for award.

(4) DoD has established a goal of registering an applicant in the CCR database within 48 hours after receipt of a complete and accurate application via the Internet. However, registration of an applicant submitting an application through a method other than the Internet may take up to 30 days. Therefore, offerors that are not registered should consider applying for registration immediately upon receipt of this solicitation.

(c) The Contractor is responsible for the accuracy and completeness of the data within the CCR, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to confirm on an annual basis that its information in the CCR database is accurate and complete.

(d) Offerors and contractors may obtain information on registration and annual confirmation requirements by calling 1-888-227-2423, or via the Internet at <http://www.ccr2000.com>.

(End of clause)

252.236-7005 AIRFIELD SAFETY PRECAUTIONS. (DEC 1991)

(a) Definitions. As used in this clause --

(1) "Landing areas means" --

(i) The primary surfaces, comprising the surface of the runway, runway shoulders, and lateral safety zones. The length of each primary surface is the same as the runway length. The width of each primary surface is 2,000 feet (1,000 feet on each side of the runway centerline);

(ii) The "clear zone" beyond the ends of each runway, i.e., the extension of the primary surface for a distance of 1,000 feet beyond each end of each runway;

(iii) All taxiways, plus the lateral clearance zones along each side for the length of the taxiways (the outer edge of each lateral clearance zone is laterally 250 feet from the far or opposite edge of the taxiway, e.g., a 75-foot-wide taxiway would have a combined width of taxiway and lateral clearance zones of 425 feet); and

(iv) All aircraft parking aprons, plus the area 125 feet in width extending beyond each edge all around the aprons.

(2) "Safety precaution" areas means those portions of approach-departure clearance zones and transitional zones where placement of objects incident to contract performance might result in vertical projections at or above the approach-departure clearance, or the transitional surface.

(i) "The approach-departure clearance surface" is an extension of the primary surface and the clear zone at each end of each runway, for a distance of 50,000 feet, first along an inclined (glide angle) and then along a horizontal plane, both flaring symmetrically about the runway centerline extended.

(A) The inclined plane (glide angle) begins in the clear zone 200 feet past the end of the runway (and primary surface) at the same elevation as the end of the runway. It continues upward at a slope of 50:1 (1 foot vertically for each 50 feet horizontally) to an elevation of 500 feet above the established airfield elevation. At that point the plane becomes horizontal, continuing at that same uniform elevation to a point 50,000 feet longitudinally from the beginning of the inclined plane (glide angle) and ending there.

(B) The width of the surface at the beginning of the inclined plane (glide angle) is the same as the width of the clear zone. It then flares uniformly, reaching the maximum width of 16,000 feet at the end.

(ii) The "approach-departure clearance zone" is the ground area under the approach-departure clearance surface.

(iii) The "transitional surface" is a sideways extension of all primary surfaces, clear zones, and approach-departure clearance surfaces along inclined planes.

(A) The inclined plane in each case begins at the edge of the surface.

(B) The slope of the incline plane is 7:1 (1 foot vertically for each 7 feet horizontally). It continues to the point of intersection with the --

(1) Inner horizontal surface (which is the horizontal plane 150 feet above the established airfield elevation);

or

(2) Outer horizontal surface (which is the horizontal plane 500 feet above the established airfield elevation), whichever is applicable.

(iv) The "transitional zone" is the ground area under the transitional surface. (It adjoins the primary surface, clear zone, and approach-departure clearance zone.)

(b) General. (1) The Contractor shall comply with the requirements of this clause while --

(i) Operating all ground equipment (mobile or stationary);

(ii) Placing all materials; and

(iii) Performing all work, upon and around all airfields.

(2) The requirements of this clause are in addition to any other safety requirements of this contract.

(c) The Contractor shall -

(1) Report to the Contracting Officer before initiating any work;

(2) Notify the Contracting Officer of proposed changes to locations and operations;

(3) Not permit either its equipment or personnel to use any runway for purposes other than aircraft operation without permission of the Contracting Officer, unless the runway is -

(i) Closed by order of the Contracting Officer; and

(ii) Marked as provided in paragraph (d)(2) of this clause;

(4) Keep all paved surfaces, such as runways, taxiways, and hardstands, clean at all times and, specifically, free from small stones which might damage aircraft propellers or jet aircraft;

(5) Operate mobile equipment according to the safety provisions of this clause, while actually performing work on the airfield. At all other times, the Contractor shall remove all mobile equipment to locations -

(i) Approved by the Contracting Officer;

(ii) At a distance of at least 750 feet from the runway centerline, plus any additional distance; and

(iii) Necessary to ensure compliance with the other provisions of this clause; and

(6) Not open a trench unless material is on hand and ready for placing in the trench. As soon as practicable after material has been placed and work approved, the Contractor shall backfill and compact trenches as required by the contract. Meanwhile, all hazardous conditions shall be marked and lighted in accordance with the other provisions of this clause.

(d) Landing areas. The Contractor shall -

(1) Place nothing upon the landing areas without the authorization of the Contracting Officer;

(2) Outline those landing areas hazardous to aircraft, using (unless otherwise authorized by the Contracting Officer) red flags by day, and electric, battery-operated low-intensity red flasher lights by night;

(3) Obtain, at an airfield where flying is controlled, additional permission from the control tower operator

every time before entering any landing area, unless the landing area is marked as hazardous in accordance with paragraph (d)(2) of this clause;

(4) Identify all vehicles it operates in landing areas by means of a flag on a staff attached to, and flying above, the vehicle. The flag shall be three feet square, and consist of a checkered pattern of international orange and white squares of 1 foot on each side (except that the flag may vary up to ten percent from each of these dimensions);

(5) Mark all other equipment and materials in the landing areas, using the same marking devices as in paragraph (d)(2) of this clause; and

(6) Perform work so as to leave that portion of the landing area which is available to aircraft free from hazards, holes, piles of material, and projecting shoulders that might damage an airplane tire.

(e) Safety precaution areas. The Contractor shall -

(1) Place nothing upon the safety precaution areas without authorization of the Contracting Officer;

(2) Mark all equipment and materials in safety precaution areas, using (unless otherwise authorized by the Contracting Officer) red flags by day, and electric, battery-operated, low-intensity red flasher lights by night; and

(3) Provide all objects placed in safety precaution areas with a red light or red lantern at night, if the objects project above the approach-departure clearance surface or above the transitional surface.

**END OF REPRESENTATIONS, CERTIFICATIONS AND CLAUSES**