

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 35
2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 14-May-2004	4. REQUISITION/PURCHASE REQ. NO. W16ROE-4077-6848	5. PROJECT NO.(If applicable)	
6. ISSUED BY US ENGINEER DISTRICT, NEW YORK US ARMY CORPS OF ENG, NYD NEW YORK NY 10278	CODE W912DS	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W912DS-04-B-0007	
		X	9B. DATED (SEE ITEM 11) 21-Apr-2004	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.				
<p>Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purposes of this amendment 0002 to solicitation W912DS-04-B-0007 are to revise specifications and drawings, provide answers to questions asked by potential bidders, change the period of acceptance of bids from 120 to 60 days, extend the contract completion date from 365 days NTP to 450 days NTP, change the Labor Wage Rates based on the latest Wage Rate Decision and extend the bid opening date. As a result of this amendment, the bid opening date has been changed as follows: FROM: 20 MAY 2004 @ 1:00 P. M. TO: 26 MAY 2004 @ 1:00 P. M. NOTE: Bidders must acknowledge receipt of this amendment by the date specified in the solicitation (or as amended) by one of the following methods: in the space provided on the SF1442, by separate letter, by telegram, or by signing block 15 below. FAILURE TO ACKNOWLEDGE AMENDMENTS BY THE DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR BID IN ACCORDANCE WITH THE LATE BID, LATE MODIFICATIONS OF BIDS OR LATE WITHDRAWAL OF BIDS (FAR14.304). Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	14-May-2004	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00010 - SOLICITATION CONTRACT FORM

The required response date/time has changed from 20-May-2004 01:00 PM to 26-May-2004 01:00 PM.

The offeror acceptance period has decreased by 60 from 120 to 60.

The contractor period of performance end date has increased by 85 days from 365 days to 450 days.

SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been added by full text:

AMENDMENT 0002 CHANGES

AMENDMENT 0002 TO THE BID SCHEDULE, DRAWINGS AND SPECIFICATIONS FOR Maintenance Training Facility, McGuire AFB, New Jersey; W912DS-04-B-0007

TO OFFERORS

The following changes shall be made to the drawings and specifications.

DRAWINGS

1. The following drawings have been **REVISED** and **REISSUED**;

Sheet	Drawing Title	Revision Number	Date of Revision
G-001	List of Drawings, Abbreviations and Legends	1	05/03/2004
C-101	Existing Conditions Plan	1	05/06/2004
C-102	Demolition Plan	1	05/06/2004
C-201	Site Plan	1	05/06/2004
C-202	Grading and Drainage Plan	1	05/06/2004
C-203	Utility Plan	1	05/06/2004
C-301	Sewer Profiles	1	05/06/2004
C-501	HTHW System Details	1	05/06/2004
C-502	HTHW System Details – Bid Option 2	1	05/06/2004
C-601	Soil Erosion and Sediment Control Plan	1	05/06/2004
L-100	Landscape Plan	1	05/06/2004
L-101	Landscape Details	1	05/06/2004
A-001	Architectural Site Plan	1	05/03/2004
A-101	West First Floor Plan	1	05/03/2004
A-102	East First Floor Plan	1	05/03/2004
A-506	Plan Details	1	05/03/2004
A-600	Finish Schedule and Legends	1	05/03/2004
S-101	West Foundation & First Floor Plan	1	05/03/2004
S-102	East Foundation & First Floor Plan	1	05/03/2004
S-201	Foundation Details	1	05/03/2004
E-100	Electrical - Legends & General Notes	1	05/03/2004
E-202	Electrical - Site Plan	1	05/03/2004
E-403	Electrical - Roof Plan – Lightning Protection	1	05/03/2004
E-501	Electrical - West First Floor Plan Mechanical & Fire Alarm	1	05/03/2004

E-601	Electrical - Details and Schedules	1	05/03/2004
E-604	Electrical - Details and Schedules	1	05/03/2004
E-701	Electrical – Panelboard Schedules	1	05/03/2004

2. The following drawings are **ISSUED** for the first time with this amendment;

C-502R, HTHW Shop Drawing Reference

SPECIFICATIONS

Section 00800, Special Contract Requirements: COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK - **DELETE** paragraph 1.a in its entirety and **REPLACE** it with the following:

“a. The Contractor shall be required to (i) commence work under this contract within five 5 calendar days after the date the Contractor receives the notice to proceed, (ii) prosecute the work diligently, and (iii) following receipt by the Contractor of notice to proceed, complete the entire work ready for use not later than the number of calendar days or date set forth in the “**SCHEDULE**” below, except as specified in various landscaping sections (These seasonally affected actions necessary for landscaping will not operate to extend the performance time for the balance of the work.). The time stated for completion shall include final cleanup of the premises; however it does not include the connection to demountable partitions per general notes on drawing A-700; these partitions shall be installed by Others and be ready for connection to building services not later than 30 calendar days after acceptance of the facility by the Government.

<u>SCHEDULE</u>				
<u>Item of Work</u>	<u>Commencement</u>	<u>Completion Time or Date</u>	<u>Liquidated Damages</u>	
<u>BASE BID</u>				
BASE BID	<i>Construction of the MTF, complete. CLIN 0001 and 0003 of the bid schedule.</i>	<i>After receipt of written notice to proceed.</i>	<i>Not to exceed 450 calendar days or sooner except for the TEPATS, room#123, and AMST, room #118, which shall completed as shown below.</i>	<i>\$8,686.00 See notes 4 & 6 below.</i>
	<i>TEPATS, room #123</i>	<i>After receipt of written notice to proceed.</i>	<i>Room #123 shall be completed, on or before 15 May 2005. See note #5, below.</i>	<i>See note #6.</i>
	<i>AMST, room #118</i>	<i>After receipt of written notice to proceed.</i>	<i>Room #118 shall be completed, on or before 15 August 2005. See note #5, below.</i>	<i>See note #6.</i>
<u>OPTIONAL BID ITEMS</u>				
<i>OPTION #1</i>	<i>CLIN 004 of the bid schedule.</i>	<i>If awarded, work may commence, in this area, anytime after 31 Mar 2005.</i>	<i>See note #1 & #2, below.</i>	<i>See notes #3, below.</i>
<i>OPTION #2</i>	<i>CLIN 005 of the bid schedule.</i>	<i>If awarded, work may commence, immediately.</i>	<i>See note #1, below.</i>	<i>See notes #3, below. See notes #3, below.</i>
<i>OPTION #3 and #4</i>	<i>CLIN 006 and 007 respectively of the bid schedule.</i>	<i>If awarded, work may commence, immediately.</i>	<i>See note #1</i>	<i>See notes & 3, below</i>

OPTION #5	CLIN 008 of the bid schedule.	If awarded, work may commence, immediately.	See note #1	See notes #3, below.
OPTION #6	CLIN 009 of the bid schedule.	If awarded, work may commence, immediately.	See note #1	See notes #3, below
Notes:				
<ol style="list-style-type: none"> 1. If options 1, 2, 3, 4, 5, and/or 6 are awarded, no additional time will be provided beyond that established, 450 calendar days, for the base bid work. 2. This work cannot commence until the Air Force has removed the existing structure, building 2302 and its foundation. 3. Award of this option will not increase the liquidated damage amount beyond that established for the base bid. 4. See paragraph 2d of section 00800 for liquidated damages assessed for "punch list" items. " 5. Room#118, AMST, and room #123, TEPATS, shall be complete, ready for Government use (Installation of training equipment and use by others) inclusive of: a) All finishes; b) Lighting and power, and; c) Government access (either temporary means or permanent pavement) to overhead door into rooms #118 and #123 via tractor trailer for delivery of equipment. HVAC need not be operational." 6. Inability of the Contractor to complete these items of work on schedule may seriously affect his/her performance rating. 				

Section 00800, Special Contract Requirements. COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK - **DELETE** paragraph 1.c in its entirety and **REPLACE** it with the following:

"c. The Contractor shall furnish all labor, materials, equipment, and services (except those furnished by the Government) for the following work:

Construct a new Maintenance Training Facility (MTF) - A single story building of approximately 37,000 gross square feet. Building work includes concrete foundations and steel framing, a combination of brick masonry and precast concrete veneer erection, insulated glazing systems, standing seam metal roofing, interior finishes, HVAC, electrical, telecommunications and plumbing & fire protection systems and all associated distribution systems. The work includes, but is not specifically limited to, selective demolition of existing site utilities and demolition of building 2307 (Building 2307 has been found to have asbestos containing materials and lead paint. The contractor is directed to other sections of the specification and Appendices for further information and requirements), its foundations, parking areas, etc. Building 2302, including its foundation will be removed and its utilities capped, by others. In the event Option 1 is awarded, the Contractor will not be permitted access to the site until 31 Mar 2005. New site work includes site grading, storm water management, utilities, landscaping, walkways, parking and resurfacing of existing parking."

Section 00800, Special Contract Requirements. Paragraph 1,f; **DELETE** this paragraph in its entirety and **REPLACE** it with the following:

"f. Hours of Work: The normal hours of operation at McGuire AFB, NJ are between the hours of 7:45 am and 4:30 pm, Monday through Friday. Contractor will be permitted to perform the contract work outside the normal hours of operation, provided the Contractor notifies the Contracting Officer or his/her representative in writing of any intended work hours which are different from the normal hours of operations, and the number of hours worked Monday through Friday fall mainly within the normal hours of operation. Federal Holidays that fall within the workweek will not be considered as workdays. Prior to performing any work during hours other than those specified including, after hours work, and weekend work, the Contractor shall submit a request to the Contracting Officer for review and approval. Overtime requests shall be submitted no less than two full workdays prior to the time the Contractor desires to perform the overtime work."

Section 00800, Special Contract Requirements, Paragraph 9, Contract Drawings; DELETE this paragraph in its entirety and REPLACE it with the following: "APPENDIX SECTION 00800 - CONTRACT DRAWING LIST" **accompanies** this amendment contains a complete list of drawings and those amended.

Section 00800, Special Contract Requirements, Paragraph 25, FIELD OFFICE; DELETE this paragraph in its entirety without replacement.

Section 02300, Earthwork, DELETE this section in its entirety and **REPLACE** it with the new section that **accompanies.**

Section 09900, Paints and Coatings

ADD new paragraph as follows to this section:

"1.5.8 Volatile Organic Compounds (VOC) Content

All paints and coatings shall have their VOC content in accordance with the Federal, State and Local Regulations and their VOC content shall be noted in the paints and coatings manufacturer's data sheet."

Section 10650A, Operable Partitions; DELETE the words "as shown" where it appear paragraph 2.1.4 of this section without replacement.

Appendices; Geotechnical Report

The Boring Location Plan, illegible in the initial issue. Bidders are advised that boring locations are identified on drawing C-101, Existing Site Conditions and this plan will not be reissued.

EM 385-1-1 Safety and Health Requirements Manual

EM 385-1-1 Safety and Health Requirements Manual, dated 3 September 1996 has been superceded and is no longer in effect. It has been replaced by EM 385-1-1 Safety and Health Requirements Manual, dated 3 November 2003. A copy of the manual can be obtained free of charge at the following website: <http://www.usace.army.mil/inet/usace-docs/eng-manuals/ceso.htm>. All reference to EM 385-1-1 in sections 00800, 01420 and elsewhere where it may appear shall be read to mean; EM 385-1-1, Safety and Health Requirements, dated 03 November

BIDDER'S QUESTIONS AND GOVERNMENT REPLY

(Questions that may be of general interest of all bidders/Government and that are not readily answered by the proceeding changes will appear below. These questions may have been paraphrased or altered to represent several questions regarding the same subject and/or clarify and simplify the question(s). Questions and answers are issued to the Offerors/Bidders for information only.)

Q1: Can the work hours be changed from 7:45 am and 4:30 pm to 7:00 am to 3:30 pm with respect to 00800-2 item f?

A1: Yes, the hours proposed, 7:00 to 3:30 as well as other variations that fall largely within the normal hour of operation at McGuire, 7:45 to 4:30, can be accommodated, provided the Contractor notifies the Contracting Officer or his/her representative in writing of any intended work hours which are different from that specified, including, after hours work, and weekend work.

Q2a: Per specification 00800-28 item 25, the office trailer of 20' x 15' does not exist. Will the government accept a size of 10'x50'.

A2a: Per this amendment, this requirement has been deleted from the contact.

Q2b: All the hardware that is being supplied to the government (Reference specification 00800 pages 29 through 30) during the course of the project will be returned back to the contractor?

A2b: Per this amendment, this requirement has been deleted from the contact.

Q3: In regards to the above referenced project, spec section 05120 states that the steel shall be fabricated by an AISC Quality Certificated organization. Can this requirement be waived? There is a limited number of company's that have this certification [that] in turn limits a competitive bid for steel. Please advise.

A3: This requirement will not be waived.

Q4: Drawing numbers demo 1, demo 2, demo 3, demo 4, and demo 5 are poorly visible. The top and bottom of each drawing is cut off. Could you please resend them on disc?

Q4: These record drawings of building 2307 (AKA: Flight Simulator; C-135 M&O, and; Learning Center) included this IFB are the best quality that could be achieved for this solicitation. They will not be reissued. These records drawings are provided to shown the basic materials of construction, eave height, approximate location and number of doors and windows, etc. Bidders are advised that the building perimeter is defined on Sheet C-102, and that a general description of existing interior layout of the facility is shown in the Langan reports in the appendices of the specification.

Q5: Clause 52.211-10 (page 23 of 65), Commencement, Prosecution, and Completion of work. Based on the magnitude of the dollar value (up to \$10 million) and the construction efforts involved in the contract work, we envision that the duration of 365 calendar days to complete the entire work is too short from the construction standpoint as well as from the standpoint of the financial ability of many of the 8(a) firms. We request that the contract duration to complete the work may be changed to 500 calendar days.

A5: The Corps of Engineer has reviewed the completion requirements for this project and have changed the performance period per this amendment from 365 to 450 calendar days.

Q6: Clause 52.211-12(page 23 of 65). Liquidated Damages-construction. Liquidated damages in the amount of \$8,686 for each calendar day of delay in the completion of work, in our opinion, is exorbitantly high. We make every effort to complete the work within or ahead of schedules, as we always do. However, unanticipated circumstances may result in delays. This number may be changed to \$600, which is in line with the norms of other public sector contracts.

A6: The liquidated damages indicated within contract are real costs that the Government will incur should it completion be delayed.

Q7: The current due date for the submission of bid is May 20, 2004. This may please be changed to June 5, 2004.

A7: The Government has no intention of extending the bid opening to satisfy the request of any single bidder; however, as it may become necessary to issue further amendments to change or clarify information provided to the bidders, the Government will weigh the content of each amendment and, if necessary, extend the bid opening.

Q8: We need to know type of materials on MTL -2 Brushed Alum metal, mentioned on finish scheduled A-600. (Name of MFR. Etc)

A8: There is no specific manufacturer for this element. It is just a piece of 1/4" thick aluminum with a brushed finish such as a BHMA 627 (Satin Aluminum).

Q9: Lobby walls are shown to have metal laminate MTL-1 mounted to painted GWB. This is a Perforated Product, Does it glue directly to the GWB or do we have to use a sub panel?

A9: The attachment of MTL-1 is via ¼" diameter screws with a metal cover cap with finish to match MTL, through the GWB and into structure. The bolting pattern is shown on detail 6/A-302. This pattern is used for both the Lobby and the TODO spaces.

Q10: Does the roof profile change by exercising options 3 & 4?

A10: The skylight has seven (7) bays total when the MTF is constructed to column line 15. If options 3 & 4 are taken, the skylight will lose one bay on each end (east & west) for a total of five (5) bays. In all instances the hip roof remains.

Q11: On column line D.8 between 4.1 & 5.1 partition type 2 is a 3-5/8" stud partition. At this specific location, the structure above is at elevation +/-41'8". Per the notes on the partition type for the wall, the partition is supposed to go underside of structure. Reviewing the metal studs manufactures "height limitations" for determining the gage of a stud, this height is off the charts, meaning there is no data available to the contractors considering 16" on center spacing nor 12" OC, L/240 deflection, and 5 pound lateral load. Would it be possible, because of the height to the underside of the structure, to change the partitions that are not rate (Rated partitions per A601 are #1 & #1F) to go to 6" above ceiling just like type 3 walls?

A11: The wall can be terminated 6" above the scheduled ceiling but the wall needs to be reinforced similar to requirements shown on wall type 3 and acoustical separation is required.

Q12: This question is typical of wall framing within the tube steel. On column line B.1 between 5.3 and 6.5 and as per detail B on S301 we have HHS4x4 diagonally. Within this same column line we have an 8" metal stud that is called out as a type 1B wall per drawing A601. This same wall is supposed to have a deflection track as well. Building this wall within the structural framing is not practical at this location or others as defined on drawing S301. Is it possible to move the walls from out the structural framing as show on S301 to have a clear and free wall where by the stud framing is not inter-mingled with the structural steel?

A12: Wall locations and structural steel cross bracing need to remain as shown on the bidding documents.

Q13: Is the intent to have pre-cast stone for all items indicated as pre-cast concrete to match or is the intent to have pre-cast stone and pre-cast concrete?

A13: All pre-cast items shall conform to specification section 03413A (Precast Architectural Concrete) in color and quality.

Q14: Please confirm that doors, frames, and hardware within the demountable walls (demountable walls are by others per note on A-700, General Note) will also be by others.

A14: All doors, frames and hardware within demountable walls shall be provided by the demountable wall manufacturer.

Q15: On drawing A602 the exterior frames that are within the metal stud partition are shown to be grouted. Since the frames will be installed with the framing, grouting in not possible. Please confirm grouting can be deleted.

A15: Frame grouting can be deleted when masonry jamb anchors are not used.

Q16: There are no specifications for the glass fiber reinforced translucent insulated wall panels are shown on drawings A202. Please specify a manufacturer.

A16: Refer to Specification Section 08600 Skylights for panel information. Wall panels shall be constructed to match the skylights.

Q17: What is the cathodic protection for? There are specifications for cathodic protection but there is nothing indicated as to what gets protected on the drawings. Please advise.

A17: Refer to Specification Section 02552A Pre-Engineered Underground Heat Distribution System part 1.6.1 for Cathodic Protection reference.

Q18: Reference is made to drawing S-105, Roof Framing, at column line D – 3 the steel beam at the ridge of the high bay roof is noted to be a W18 x 192. Our suppliers and subcontractors have indicated to us that the largest beam available in the W18 configuration is W18 x 119.

A18: Steel beams that are acceptable in lieu of the W18x192 are as follows: W21x201; W24x192; W27x194; W30x191; W33x201

Q19: In specification section 10650A, paragraph 2.1.4 there is a reference to the track for the operable partition shall be recessed "as shown." There are no detailed drawings for the operable partition. Please advise.

A19: The wording of this paragraph has been revised per this amendment.

Q20: Do to the shortage of metals and the extreme soaring prices of metal, wire conduct and all other construction material. The suppliers are not guaranteeing the prices for more than 7 days after quoting. Is the government going to add a clause into this contract to protect the general Contractor?

A20: Not at this time.

Q21: How long after bid will project be awarded?

A21: There is not a fixed answer to this question or are all of the events that determine an award necessarily fall within the Governments control. Bidders advised of the requirements for bid acceptance, indicated in section 14D of SF 1442.

Q22: Is the government willing to fast tract submittals that fall under the extreme pricing?

A22: The Government obligations regarding submittals are provided in Section 01330, Submittal Procedures. However, the Government with advance notice of at least two weeks in advance of receipt of a critical submittal can improve on the review and approval period stated in Section 01330, for some submittals (dependent upon size of the submittal and its technical complicity); however, the submittals must be complete and subjected to the contractor's own quality review.

Q23: Is the government willing to go to suppliers warehouse to see stored materials used in fabrication and pay for those items.

A24: Yes, for purposes of quality, but not for payment. The Government may make allowance for materials stored off site, provided the Contractor has a paid invoice for goods.

NEW LABOR WAGE RATES-AM.0002

Date: May 7, 2004 sg 5/7/04
General Decision Number: NJ20030002 05/07/2004

Superseded General Decision Number: NJ020002

State: New Jersey

Construction Types: Building, Heavy and Highway

Counties: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Ocean and Salem Counties in New Jersey.

MERCER COUNTY

Building (excluding single family homes and apartments up to and including 4 stories), Heavy (does not include the counties of BURLINGTON, CAMDEN, GLOUCESTER, AND SALEM) Highway Construction Projects.

Modification Number	Publication Date
0	06/13/2003
1	12/19/2003
2	02/27/2004
3	03/19/2004
4	05/07/2004

* ASBE0014-002 04/26/2004

BURLINGTON (townships of Edgewater Park,Lumberton,Sampton, Shamong,Tabermacle,Westhampton,&Willingboro), CAMDEN, & GLOUCESTER COUNTIES:

	Rates	Fringes
Asbestos Workers/Insulator (includes the application of all insulating materials, protective coverings,coatings, and finishes to all types of mechanical systems. Also the application of firestopping material, openings and penetrations in walls, floors, ceilings, curtain walls and all lead abatement).....	\$ 32.16	18.30

ASBE0042-002 07/15/1999

SALEM COUNTY:

	Rates	Fringes
Asbestos Worker.....	\$ 23.99	9.89

ASBE0085-001 06/01/1994

	Rates	Fringes
Asbestos Workers/Insulator		
ZONE 1.....	\$ 20.20	6.35
ZONE 2.....	\$ 18.30	6.825
Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems		

ASBESTOS WORKERS ZONE DEFINITIONS
 ZONE 1: ATLANTIC, BURLINGTON (Bass River and Washington
 Twps.); CAPE MAY, CUMBERLAND AND OCEAN (Eaglewood,
 Lacy, Little Egg Harbor, Long Beach, Ocean, Stafford,
 Tuckerton, and Union Twps.) COUNTIES.
 ZONE 2: MONMOUTH (Remainder of County)

ASBE0089-002 07/01/2003

BURLINGTON (includes the townships of Bordentown, Burlington,
 Chesterfield, Easthampton, Florence, Mansfield, Mount Holly,
 New Hanover, North Hanover, Pembereton, Roebling, Springfield,
 Wrightstown, & Woodland); MERCER COUNTY; MONMOUTH (includes the
 townships of Allentown, Blansingburg, Brielle, Englishtown,
 Farmingdale, Freehold, Howell, Manasquan, Millstone, Roosevelt,
 Sea Crit, South Belmar, Spring Lake Heights, Upper Freehold,
 Wall, & West Belmar); & OCEAN (includes the townships of
 Beachwood, Berkeley, Breton Woods, Brick, Cederwood Park,
 Dover, Gillford Park, Island Beach, Island Heights, Jackson,
 Lakehurst, Lakewood, Manchester, New Egypt, Ocean Gate, Pine
 Beach, Plumstead, South Toms River & Toms River) COUNTIES:

	Rates	Fringes
Asbestos Workers/Insulator.....	\$ 30.88	17.87
Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems		

BOIL0028-002 08/01/2003

	Rates	Fringes
Boilermaker.....	\$ 34.63	20.45

BRNJ0005-001 01/01/2004

	Rates	Fringes
Bricklayers, Stone Masons, Marble Masons, Cement Masons...	\$ 30.55	15.40
(Excludes Building Construction for Mercer County),		

PLASTERERS, TILE LAYERS, & TERRAZZO WORKERS

CARP0031-001 05/01/2003

MERCER COUNTY (Remainder):

	Rates	Fringes
Carpenter.....	\$ 31.92	13.73
Millwright.....	\$ 31.92	13.73

CARP0454-002 07/01/2001

	Rates	Fringes
Dock Builder & Piledrivermen...	\$ 27.45	16.79+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, and Thanksgiving Day, provided employee works any of the 3 days in the 5-day work week preceeding the holiday and the first work day after the holiday.

CARP0623-001 05/01/2003

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER AND SALEM COUNTIES:

	Rates	Fringes
Carpenter, Insulator, Millwright & Soft Floor Layer.....	\$ 31.92	13.73

CARP0623-003 12/03/1994

CAMDEN, GLOUCESTER AND SALEM COUNTIES

	Rates	Fringes
Terrazzo Finisher.....	\$ 12.93	5.05

CARP0623-004 12/03/1994

ATLANTIC AND MONMOUTH COUNTIES:

	Rates	Fringes
Tile Finisher.....	\$ 8.45	13%

CARP0623-005 12/03/1994

CAMDEN, GLOUCESTER AND SALEM COUNTIES:

	Rates	Fringes
Tile Finisher.....	\$ 12.72	5.05

 CARP0623-006 12/03/1994

CAMDEN, GLOUCESTER AND SALEM COUNTIES:

	Rates	Fringes
Marble Finisher.....	\$ 12.95	5.05

 CARP0781-001 05/01/2003

MERCER COUNTY (Beginning from the present Post Office in Lawrenceville to a point Northward through the present "Radio Site" to the junction of Rosedale Road and Read's Mill Road to the junction of Pennington and Mount Rose Road to the Somerset County line, again starting at the present Post Office in Lawrenceville and Eastward to the junction of Brunswick Pike and Delaware and Raritan Canal Bridge taking the center of the Road to CLarksville then South on Providence Line Road to the Pennsylvania Railroad then East on Dutch Neck North to Grover's Mills to the Middlesex County Line):

	Rates	Fringes
Carpenter.....	\$ 31.92	13.73
Millwright.....	\$ 31.92	13.73

 CARP1456-006 05/01/2003

	Rates	Fringes
Diver.....	\$ 38.28	26.41
Diver Tender.....	\$ 28.82	26.41

 CARP1456-007 05/01/2003

MERCER AND MONMOUTH COUNTIES:

	Rates	Fringes
Dock Builder & Piledrivermen...	\$ 31.54	24.61

 CARP2018-001 05/01/2003

OCEAN COUNTY:

	Rates	Fringes
Carpenter.....	\$ 31.92	13.73
Millwright.....	\$ 31.92	13.73

CARP2212-002 05/01/2003

BURLINGTON, MERCER, MONMOUTH AND OCEAN COUNTIES:

	Rates	Fringes
Soft Floor Layer.....	\$ 31.92	13.73

CARP2250-001 05/01/2003

MONMOUTH COUNTY:

	Rates	Fringes
Carpenter.....	\$ 31.92	13.73
Millwright.....	\$ 31.92	13.73

* ELEC0269-003 04/01/2004

BURLINGTON (Area North of a line following the West and South limits of Burlington Borough from the Delaware River in a Southeasterly direction to the Burlington - Mt Holly Road, South- Southeast along this Road to and including the Town of Mount Holly, East along the Pennsylvania Railroad to and including New Lisbon and continuing along the Pennsylvania Railroad to Ocean County Line) AND MERCER COUNTIES:

	Rates	Fringes
Line Construction (EXCEPT RAILROAD WORK)		
Linemen, Cable Splicers, Equipment Operators and Technicians.....	\$ 39.59	47%
Truck Drivers, Groundmen and Winch Operators.....	\$ 31.67	47%

* ELEC0269-004 04/01/2004

BURLINGTON COUNTY (Area North of a line following the West and South limits of Burlington Borough from the Delaware River in a Southeasterly direction to the Burlington - Mount Holly Road,

South-Southeast along this road to and including the Town of Mount Holly, East along the Pennsylvania Railroad to and including New Lisbon and continuiong along the Pennsylvania Railroad to the Ocean County Line) AND MERCER COUNTIES:

	Rates	Fringes
Electrician & Cable Splicer....	\$ 39.59	47.3%+.25

ELEC0351-001 10/01/2001

ATLANTIC, BURLINGTON (Edgewater park, Delanco, Delran, Cinnaminson,Moorestown, Mount Laurel, Wilingsboro, Hainesport, Lumberton,Medford, Evesham Townships; and the portion of Shamong,Tabernacle, and Woodland Townships North of the Central Railroad of New Jersey Line; and the portion of Burlington, Westhampton, Easthampton, South Hampton and Pemberton Townships South of a line starting at the Delaware River and following the Southern boundary of Burlington Borough to the Burlington - Mount Holly Road, along this road to Mount Holly around but excluding Mount Holly to the Pennsylvania Railroad along the Pennsylvania Line through, but excluding, Pemberton, through but excluding New Lisbon to the Ocean County line and that portion south of the Central Railroad of New Jersey line running through Chatsworth), CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER and SALEM COUNTIES:

	Rates	Fringes
Electrician & Cable Splicer....	\$ 32.89	51.05%+.20

ELEC0351-002 10/01/2001

ATLANTIC; BURLINGTON (Edgewater park, Delanco, Delran, Cinnaminson,Moorestown, Mount Laurel, Wilingsboro, Hainesport, Lumberton,Medford, Evesham Townships; and the portion of Shamong, Tabernacle, and Woodland Townships North of the Central Railroad of New Jersey Line; and the portion of Burlington, Westhampton, Easthampton, South Hampton and Pemberton Townships South of a line starting at the Delaware River and following the Southern boundary of Burlington Borough to the Burlington - Mount Holly Road, along this road to Mount Holly around but excluding Mount Holly to the Pennsylvania Railroad along the Pennsylvania Line through, but excluding, Pemberton, through but excluding New Lisbon to the Ocean County line and that portion south of the Central Railroad of New Jersey line running through Chatsworth); CAMDEN; CAPE MAY; CUMBERLAND; GLOUCESTER; and SALEM COUNTIES:

	Rates	Fringes
Groundman.....	\$ 27.95	52.05%

Linemen,Heavy Equipment

Operators, & Cable Splicers....\$ 32.89 52.05%

ELEC0351-003 12/03/1994

BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MONMOUTH,
OCEAN AND SALEM COUNTIES:

	Rates	Fringes
Line Construction:		
(RAILROAD ONLY)		
Dynamite Man.....	\$ 14.20	25%
Groundman Winch Operator....	\$ 13.07	25%
Groundman.....	\$ 11.06	25%
Line Equipment Mechanic.....	\$ 12.90	25%
Line Equipment Operator.....	\$ 16.20	25%
Linemen.....	\$ 16.96	25%
Street Light Mechanic.....	\$ 12.97	25%

ELEC0400-001 06/03/2002

MONMOUTH AND OCEAN COUNTIES:

	Rates	Fringes
Electrician & Cable Splicer....	\$ 36.01	40.75%

ELEC0400-002 06/02/1997

MONMOUTH AND OCEAN COUNTIES:

	Rates	Fringes
Line Construction:		
(Excluding Railroad construction)		
Groundman.....	\$ 27.01	18.75%+5.83
Lineman, Equipment Operator, and Cable Splicer.....	\$ 28.96	18.75%+5.83

ELEV0005-002 08/01/2003

	Rates	Fringes
Elevator Mechanic.....	\$ 36.205	9.605+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day
PAID VACATION: Employer contributes 4% of basic hourly rate as vacation pay credit for 5 years or more of service, and 2% for 6 months to 5 years of service.

ENGI0825-002 07/01/2003

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 33.87	18.15+A+B
GROUP 2.....	\$ 32.28	18.15+A+B
GROUP 3.....	\$ 30.37	18.15+A+B
GROUP 4.....	\$ 28.74	18.15+A+B
GROUP 5.....	\$ 27.03	18.15+A+B
GROUP 6.....	\$ 35.59	18.15+A+B
BUILDING CONSTRUCTION PROJECTS; HEAVY; HIGHWAY; ROAD; STREET AND SEWER PROJECTS:		

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Autograde - Combination Subgrader; base metal spreader and 7 base trimmer (CMI and similar types); autograde placer, trimmer, spreader combination (CMI and similar types); autograde slipform paver (CMI and similar types); backhoe; central power plants (all types); concrete paving machines; cranes (all types, including overhead and straddle traveling type); cranes; gantry; derricks (land or floating); drillmaster, quarrymaster (down the hole drill) rotary drill; self propelled hydraulic drill; self- powered drill; dragline; elevator graders; front end loaders (5 yds. and over); gradalls; grader; raygo; locomotive (large); mucking machines; pavement and concrete breaker, i.e.; superhammer and hoe ram; pile driver; length of boom including length of leads, shall determine premium rate applicable; roadway surface grinder; scooper (loader and shovel); shovels; tree chopper with boom; trench machines.

GROUP 2: "A" frame; backhoe (combination); boom attachment on loaders (rate based on size of bucket) not applicable to pipehook, boring and drilling machines; brush chopper; shredder and tree shredder; tree shearer; cableways; carryalls; concrete pump; concrete pumping system; pumpcrete and similar types; conveyors, 125 ft. and over; drill doctor including dust collector, maintenance); front end loaders (2 yds. but less than 5 yds.); graders (finisher); groove cutting machine (ride on type); header planer; hoists; (all types hoists, shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete brick shaf't caisson, snorkel roof, and/or any other similar type hoisting machines, portable or stationary, except Chicago boom type); hoists (Chicago boom type); hydraulic cranes, 10 tons and under, hydro-axle; jacks screw air hydraulic power operated unit or console type (not hand jack or pile load test type); log skidder; pans; pavers (all concrete; pumpcrete machines; squeezecrete and concrete pumping (regardless of size); scrapers; side booms; straddle carrier; ross and similar types; winch truck (hoisting).

GROUP 3: Asphalt curbing machine; asphalt plant engineer; asphalt spreader; autograder tube finisher and texturing machine (CMI and similar types); autograde curercrete machine

(CMI and similar types); autograde curb trimmer and sidewalk; shoulder; slipform (CMI and similar types); bar bending machines (power); batchers; batching plant and crusher on side; belt conveyor systems; boom type skimmer machines, bridge deck finisher; bulldozers (all); car dumpers (railroad); compressor and blower type units (used independently or mounted on dual purposes trucks, on job site or in conjunction with job site in loading and unloading of concrete, cement, fly ash, instancrete, or similar type materials); compressor (2 or 3) (battery); concrete finishing machines; concrete saws and cutters (ride on type); concrete spreaders; hetzel; rexomatic and similar types; concrete vibrators, conveyors; under 125 ft.; crushing machines; ditching machine; small (ditchwitch or similar type); dope pots (mechanical with or without pump); dumpsters elevator; fireman; fork lifts (economobile; lull and similar types of equipment); front end loaders (1 yd. and over but less than 2 yds.). generators (2 OR 3) in battery; giraffe grinders; graders and motor patrols; gunnite machines (excluding nozzle); hammer vibratory (in conjunction with generator); hoist (roof, tugger, aerial platform hoist and house cars); hoppers; hopper doors (power operated); ladders (motorized); laddervator; locomotive; dinky type; maintenance; utility man; mechanics; mixers (except paving mixers); motor patrols and graders; pavement breakers, small; self-propelled ride on type (also maintaining compressor or hydraulic unit); pavement breaker; truck mounted; pipe bending machine (power); roller; black top; scales; power; seaman pulverizing mixer; shoulder widener; silos; skimmer machines (boom type); steel cutting machine; services and maintaining tractors; tug captain; vibrating plants (used in conjunction with unloading); welder and repair mechanics, concrete cleaning/ decontamination machine operator, directional boring machine, heavy equipment robotics operator/technician, master environmental maintenance technician, ultra high pressure waterjet cutting tool system operator/maintenance technician, vacuum blasting machine operator/maintenance technician.

GROUP 4: Brooms and sweepers, chippers, compressor (single), concrete spreaders (small type), conveyor loaders (not including elevator graders), engines, large diesel (1620 H.P.) and staging pump, farm tractors; fertilizing equipment (operation and maintenance) fine grade machine (small type); form line graders (small type); front loader (under 1 yd.); generator (single); grease, gas, fuel and oil supply trucks; heaters (nelson or other type including propane, natural gas or flow-type units); lights; portable generating light plants; mixers; concrete small; mulching equipment (operation and maintenance) pumps (4 inch suction and over including submersible pumps); pumps (2 or less than 4" suction and over including submersible pumps); pumps (diesel engine and hydraulic) immaterial of power road finishing machines (small type); rollers; grade; fill or stone base; seeding equipment (operation and maintenance of); sprinkler and water pump trucks steam jennies and boilers, stone spreader; tamping machines; vibrating ride-on; temporary heating plant (nelson

or other type, including propane, natural gas or flow type untis); water and sprinkler trucks; welding machines (gas, diesel, and/or electric converters of Any type, single; two or three in a battery); welding systems, multiple (rectifier transformer type); wellpoint systems.

GROUP 5: Oiler.

GORUP 6: Helicopter Pilot.

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Washington'd Birthday, Memorial Day; Independence Day; Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day
- B. Employee receives 20% Premium Pay for Hazardous Waste Work.

ENGI0825-003 07/01/2003

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 36.36	18.15+A+B
GROUP 2.....	\$ 35.52	18.15+A+B
GROUP 3.....	\$ 37.50	18.15+A+B
GROUP 4.....	\$ 33.43	18.15+A+B
GROUP 5.....	\$ 28.22	18.15+A+B
TANK ERECTION:		

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Washington's Birthday Memorial Day; Independence Day; Labor Day; Veteran's Day, Thanksgiving Day; and Christmas Day.
- B. Employee receives 20% premium pay for hazardous waste work.

TANK ERECTION CLASSIFICATIONS

GROUP 1: Operating Engineers--on all Cranes, derricks, etc. with booms including jib 140 ft. or more above the ground.

GROUP 2: Operating Engineers--on all equipment, including cranes derricks, etc. with booms including jib, less than 140 ft. above the ground.

GROUP 3: Helicopters--Pilot.

GROUP 4: Air compressors, welding machines and generators (gas, diesel, or electrical driven equipment and sources of power from a permanent plant, i.e., steam, compressed air, hydraulic or other power, for the operating of any machine or automatic tools used in the erection, alteration, repair and dismantling of tanks and any and all "DUAL PURPOSE" trucks used on the construction job site. GROUP 5: Oiler.

ENGI0825-004 07/01/2003

	Rates	Fringes
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Power equipment operators:

GROUP 1.....	\$ 35.64	18.15+A+B
GROUP 2.....	\$ 35.73	18.15+A+B
GROUP 3.....	\$ 33.34	18.15+A+B
GROUP 4.....	\$ 30.78	18.15+A+B
GROUP 5.....	\$ 29.25	18.15+A+B
GROUP 6.....	\$ 27.49	18.15+A+B
GROUP 7.....	\$ 38.00	18.15+A+B

[STEEL ERECTION]:

FOOTNOTES:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

B. Employees receive 20% premium pay for hazardous waste work.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

[STEEL ERECTION]

GROUP 1: Cranes - (all cranes, land or floating with booms including job 140 ft. and over, above ground); derricks-(all derricks, land or floating with boom including jib 140 ft. and over, above ground).

GROUP 2: Cranes - (all cranes, land or floating with booms including jib less than 140 ft. above ground); derricks (all derricks, land or floating with booms including jib, less than 140 ft. above ground).

GROUP 3: "A" frame; cherry pickers 10 tons and under; hoists; all types hoists shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, or any other similar type hoisting machines, portable or stationary, except Chicago boom type; jacks-screw air hydraulic power operated unit console type (not hand jack or pile load test type) side booms.

GROUP 4: Aerial platform used hoist; compressor, 2 or 3 in battery; elevators or house cars; conveyors and tigger hoists; fireman; forklift; generators, 2 or 3 maintenance-utility man; rod bending machine (power); welding machines--(gas or electric, 2 or 3 in battery, including diesels); captain power boats; tug master power boats.

GROUP 5: Compressor, single, welding machine, single, gas, electric converters of any type, diesel; welding system multiple (rectifier transformer type); generator, single.

GROUP 6: Oiler staddle carrier.

GROUP 7: Helicopter pilot

ENGI0825-005 07/01/2003

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 34.50	18.15+A+B
GROUP 2.....	\$ 33.85	18.15+A+B
GROUP 3.....	\$ 30.71	18.15+A+B
GROUP 4.....	\$ 29.31	18.15+A+B
GROUP 5.....	\$ 27.49	18.15+A+B
GROUP 6.....	\$ 36.43	18.15+A+B
OILOSTATIC MAINLINES & TRANSPORTATION PIPELINES:		

FOOTNOTES:

A. PAID HOLIDAYS: New Year's Day; Washington's Birthday, Memorial Day; Independence Day; Labor Day; Veteran's Day, Thanksgiving Day; and Christmas Day

B. Employee receives 20% premium pay for hazardous waste work.

OILOSTATIC MAINLINES AND TRANSPORTATION PIPE
LINES

CLASSIFICATIONS

GROUP 1: Backhoe; cranes (all types); draglines; front-end loaders (5 yds. and over); gradalls; scooper (loader and shovel); koehring and trench machines.

GROUP 2: "A" frame; backhoe (combination hoe loader); boring and drilling machines; ditching machine, small; ditchwitch or similar type; fork lifts; front end loaders (2 yds and over but less than 5 yds.); graders, finish (fine); hydraulic cranes, 10 tons and under (over 10 tons - crane rate applies); side booms; and winch trucks (hoisting).

GROUP 3: Backfiller; brooms and sweepers; bulldozers; compressors (2 or 3 in battery); front-end loaders (under 2 yds.); generators; giraffe grinders; graders and motor patrols; mechanic; pipe bending machine (power); tractors; water and sprinkler trucks, welder and repair mechanic.

GROUP 4: Compressor (single); dope pots (mechanical with or with out pump); dust collectors; farm tractors; pumps (4 in. suction and over); pumps (2 or less than 4 in. suction); pumps; diesel engine and hydraulic (immaterial or power); welding machines; gas or electric converters of any type, single; welding machines, gas or electric converters of any type, 2 or 3 in battery multiple welders; wellpoint systems (including installation and maintenance).

GROUP 5: Oiler, grease, gas, fuel and supply trucks and tire repair and maintenance.

GROUP 6: Helicopter-pilot.

IRON0011-001 07/01/2002

MONMOUTH AND OCEAN COUNTIES:

	Rates	Fringes
Ironworkers:		
Reinforcing.....	\$ 27.63	24.10
Structural & Ornamental.....	\$ 29.53	24.10

IRON0068-001 07/01/2003

BURLINGTON (Remainder), MERCER, MONMOUTH (South half), AND OCEAN (Middle third) COUNTIES:

	Rates	Fringes
Ironworkers:		
Reinforcing (Concrete		
Rods).....	\$ 26.41	23.80
Structual, Ornamental.....	\$ 28.41	23.80

IRON0350-001 07/01/2003

ATLANTIC, CAPE MAY, CUMBERLAND (Area East of a line drawn from Delaware Bay through the town of Cedarsville and upwards to the point where the county lines of Gloucester, Cumberland, and Atlantic meet), AND OCEAN (Remainder) COUNTIES:

	Rates	Fringes
Ironworkers:		
BUILDING CONSTRUCTION:		
Fence and Guardrail		
Erector.....	\$ 25.92	20.25
Reinforced Concrete.....	\$ 28.77	20.25
Structural & Precast.....	\$ 29.77	20.25
Windows.....	\$ 28.77	20.25
HIGHWAY CONSTRUCTION:		
Reinforced Concrete.....	\$ 26.57	20.25
Structural & Precast.....	\$ 28.82	20.25

IRON0399-001 07/01/2003

BURLINGTON (Southern portion up to but not including Lumberton and Chatsworth Twps.), CAMDEN, CUMBERLAND (Remainder), GLOUCESTER, AND SALEM COUNTIES:

	Rates	Fringes
Ironworkers:		
Hazardous work.....	\$ 35.44	14.25
Structural, Ornamental,		
and Reinforcing.....	\$ 32.44	14.25

LABO0172-001 03/01/2003

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER,
MERCER, OCEAN AND SALEM COUNTIES:

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 25.30	11.80+A
GROUP 2.....	\$ 25.50	11.80+A
GROUP 3.....	\$ 25.80	11.80+A
GROUP 4.....	\$ 26.00	11.80+A
GROUP 5.....	\$ 26.25	11.80+A
GROUP 6.....	\$ 29.80	11.80+A
GROUP 7.....	\$ 28.30	11.80+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day; Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day, provided the employee works 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABORERS CLASSIFICATIONS

GROUP 1: Common laborers, landscape laborers, railroad track laborers, flagmen, salamander tenders, pitman, dumpman, waterproofing laborers, rakers and tampers on cold patch work, and wrapping and coating of all pipes.

GROUP 2: Powder carrier, magazine tender, and signalman.

GROUP 3: Sewer pipe, laser men, conduit and duct line layer, power tool operator, jack hammer, chipping hammer, pavement breaker, power buggy, concrete cutter, asphalt cutter, sheet hammer and tree cutter operators, sandblasting cutting, burning and such other power tools used to perform work usually done manually by laborers.

GROUP 4: Wagon drill operator, timberman and drill master.

GROUP 5: Finisher, manhole, catch basin or inlet builder, form setter, rammer, paver, gunite nozzleman and stonecutter.

GROUP 6: Blaster.

GROUP 7: Hazardous waste laborer.(Excludes asbestos work).

LABO0172-002 03/01/2002

Rates Fringes

Laborers:

FREE AIR TUNNEL

GROUP 1.....	\$ 27.25	12.95+A
GROUP 2.....	\$ 23.85	12.95+A
GROUP 3.....	\$ 23.70	12.95+A
GROUP 4.....	\$ 23.20	12.95+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day; Independence Day, Labor Day, Presidential Election Day, provided the employee works 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABORERS; FREE AIR TUNNEL
CLASSIFICATIONS

GROUP 1: Blasterers.

GROUP 2: Skilled men (including miners, drill runners, iron men, maintenance men, conveyor men, safety miners, riggers, block layers, cement finishers, rod men, caulkers, powder carriers, all other skilled men).

GROUP 3: Semi-skilled men (including chuck tenders, track men, nippers, brakemen, derail men, cable men, hose men, grout men, gravel men, form men, bell or signal men (top or bottom), form workers and movers, concrete workers, shaft men, tunnel laborers, all other semi-skilled).

GROUP 4: All others (including powder watchmen, change house attendants, top laborers).

LABO0172-003 03/01/2002

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MERCER, MONMOUTH, OCEAN, SALEM, AND MIDDLESEX (Southern half) COUNTIES:

	Rates	Fringes
Laborers-Asphalt		
Construction:		
Feeders and Dust Men.....	\$ 21.65	11.70+A
Head Rakers.....	\$ 23.60	12.95+A
Rakers & Screed Men.....	\$ 23.45	12.95+A
Scale Mixers & Burner		
Men.....	\$ 21.90	11.70+A
Tampers, Smothers,		
Kettlemen,		
Painters, Shovelers and		
Roller Boys.....	\$ 23.20	12.95+A
STREET:		

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day; Independence Day; Labor Day; Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day provided The Employee works 3 days for same employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABO0222-001 05/01/2002

BURLINGTON (Twps. of Cinnaminson, Delance, Delran, East Hampton, Edgewater Park, Evesham, Hainesport, Lumberton, Medford, Moorestown, Mount Laurel, Pemberton, Shamong, South Hampton, Tabernacle, West Hampton, Willingsboro and Woodland); CAMDEN; CUMBERLAND; GLOUCESTER; AND SALEM COUNTIES:

	Rates	Fringes
Laborers: (BUILDING CONSTRUCTION)		
CLASS A.....	\$ 22.95	11.77
CLASS B.....	\$ 22.45	11.77
CLASS C.....	\$ 19.16	11.77

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer, Tamper, Motorized Tampers and Compactors, Street Cleaning Machines, Scaffold Builder, Hydro, Demolition Equipment, All types of Motorized Fork Lifts Riding Motor Buggy Operator, Bobcat Operator, Mortar Man, Burners, Nozzle Man on Gunite work.

CLASS B: All laborers not listed in Class A or C.

CLASS C: Laborers doing Janitorial-type light clean up work associated with the turnover of the project to the owner All Flagman, and those manning temporary heat of all types.

LABO0415-001 05/01/2002

ATLANTIC; BURLINGTON (Twps. of Bass River and Washington); CAPE MAY; CUMBERLAND (Twps. of Commercial, Dawne, Fairfiled, Lawrence, Maurice, and Millville); AND OCEAN (That portion up to and including Lacy Twp.) COUNTIES:

	Rates	Fringes
Laborers: (BUILDING CONSTRUCTION)		
CLASS A.....	\$ 22.95	11.77
CLASS B.....	\$ 22.45	11.77
CLASS C.....	\$ 19.16	11.77

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer, Tamper, Motorized Tampers and

Compactors, Street Cleaning Machines, Scaffold Builder, Hydro Demolition Equipment, all types of Motorized Fork Lifts, Riding Motor Buggy Operator, Bobcat Operator, Mortar Man, Burners, Nozzle Man on Gunite work.

CLASS B: All laborers not listed in Class A or C.

CLASS C: Laborers doing Janitorial- type light clean up work associated with the turnover of the project to the owner All flagman, and those manning temporary heat of all types.

LAB00472-001 03/01/2003

MONMOUTH COUNTY:

	Rates	Fringes
Laborers: (HEAVY AND HIGHWAY CONSTRUCTION)		
GROUP 1.....	\$ 25.30	11.80+A
GROUP 2.....	\$ 25.50	11.80+A
GROUP 3.....	\$ 25.80	11.80+A
GROUP 4.....	\$ 26.00	11.80+A
GROUP 5.....	\$ 26.25	11.80+A
GROUP 6.....	\$ 29.80	11.80+A
GROUP 7a.....	\$ 28.30	11.80+A
Group 7b.....	\$ 26.30	11.80+A

LABORERS CLASSIFICATIONS (HEAVY & HIGHWAY)

GROUP 1: Common laborers, landscape laborers, railroad track laborers, flagmen, salamander tenders, pitman, dumpman, waterproofing laborers, rakers and tampers on cold patch work, and wrapping and coating of all pipes, & Asphalt Laborers.

GROUP 2: Powder carrier, magazine tender, signalman, asphalt raker, and asphalt screedman

GROUP 3: Sewer pipe, laser men, conduit and duct line layer, power tool operator, jack hammer, chipping hammer, pavement breaker, power buggy, concrete cutter, asphalt cutter, sheet hammer and tree cutter operators, sandblasting cutting, burning, power tool operator, and such other power tools used to perform work usually done manually by laborers.

GROUP 4: Wagon drill operator, timberman and drill master.

GROUP 5: Finisher, manhole, catch basin or inlet builder, form setter, rammer, paver, gunite nozzleman, and stone cutter

GROUP 6: Blaster.

Group 7a: Hazardous waste laborer required to wear level A,B, or C personal protection.

GROUP 7b: Certified laborer working a hazardous waste removal

project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A,B, or C personal protection.

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day provided the employee works 3 days for the same employer within a period of 10 working days consisting of 5 working days before and 5 working days after the day upon which the holiday falls or is observed

LABO0595-001 05/01/2002

BURLINGTON (Remainder), MERCER, MONMOUTH, and OCEAN (Remainder)
COUNTIES:

	Rates	Fringes
Laborers: (BUILDING CONSTRUCTION)		
CLASS A.....	\$ 22.95	11.77
CLASS B.....	\$ 22.45	11.77
CLASS C.....	\$ 19.16	11.77

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer; Tamper; Motorized Tampers and Compactors Street Cleaning Machines; Scaffold Builder; Hydro Demolition Equipment; All types of Motorized Fork Lifts; Riding Motor Buggy Operator; Bob Cat Operator; Mortar Man; Burners; Nozzle Man on gunite Work.

CLASS B: All Laborers not listed in Class A or C.

Class C Laborers doing Janitorial type light clean up associated with the turnover of the project or part of a project to the owner; All Flagman; and those manning temporary heat of all types.

LABO1030-001 04/01/2001

LABORERS: (The removal, abatement, enclosure and decontamination of personal protective equipment, chemical protective clothing and machinery relating to asbestos and/or toxic and hazardous waste of materials which shall include but not necessarily be limited to: the erection, moving, servicing and dismantling to all enclosures, scaffolding, barricades, and the operation of all tools and equipment normally used in the removal or abatement of asbestos and toxic and hazardous waste or materials, the labeling, bagging, cartoning, crating, or other packaging of materials for disposal; and the clean up of the work site and all other work incidental to the removal, abatement, encapsulation, enclosure, and decontamination of asbestos or toxic and hazardous waste materials; and in addition, all work tasks involved in the maintenance and

operation of energy resource recover plants (co- generation plants).)

	Rates	Fringes
Laborer.....	\$ 21.85	10.12

PAIN0252-007 05/01/2003

ATLANTIC, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, SALEM, and parts of BURLINGTON and OCEAN (everything south of these cities in Burlington and Ocean Counties-Florence to Bustleton to Columbus to Jobstown to Pemberton to Ongs Hat to Chatsworth to Whiting to Pinewald to Ocean Gate to Seaside Heights) COUNTIES:

	Rates	Fringes
Glazier.....	\$ 27.35	15.05

PAIN0711-001 05/01/2000

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MONMOUTH, OCEAN, & SALEM COUNTIES:

	Rates	Fringes
Painting, paperhanging & allied work.....	\$ 28.75	2.54+27%
Repaint work & preparation thereof (including jobs where no major alterations are taking place but excluding bridges, stacks, elevated tanks & generating stations).....	\$ 22.00	2.54+27%
Spraying Sandblasting, Dipping, Power tools (Over 115 volts) & Paperhanging.....	\$ 31.25	2.54+27%
PAPERHANGING PASTING APPARATUS WORK ON TANKS, BRIDGES, TOWERS, STACKS, & OPEN STRUCTURAL STEEL, WORK FROM CABLES & SWINGING SCAFFOLDS, EXTERIOR WORK ABOVE THREE STORIES		

PAIN0711-004 05/01/2000

MERCER COUNTY:

	Rates	Fringes
Painters: Bridges, TV & Radio Towers, Structural Steel & Tanks above 3 stories in height (30'		

or over), Smoke Stacks, Water Towers, Sand-Blasting, Steam Cleaning, Spraying, or application of Hazardous Materials.....	\$ 31.25	27%+2.55
New Construction and Major Alterations.....	\$ 28.75	27%+2.55
Paperhanging.....	\$ 25.60	27%+2.55
Repaint Work.....	\$ 22.00	27%+2.55
Spraying or application of Hazardous or Dangerous Materials on Repaint Work...	\$ 24.00	27%+2.55

PAIN0711-006 08/01/1999

	Rates	Fringes
Drywall Finisher/Taper.....	\$ 28.25	11.23

PAIN0711-007 05/01/2000

MERCER, MONMOUTH and parts of BURLINGTON AND OCEAN (everything north of these cities in BURLINGTON and OCEAN COUNTIES Florence to Bustleton to Columbus to Jobstown to Pemberton to Onge Hat to Chatsworth to Whiting to Pinewald to Ocean Gate to Seaside Heights) COUNTIES:

	Rates	Fringes
Glazier.....	\$ 28.75	10.30

PLAS0008-003 05/01/2001

CAMDEN, GLOUCESTER and SALEM COUNTIES:

	Rates	Fringes
Plasterer.....	\$ 25.35	13.40

PLAS0008-005 11/01/2001

ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER, MONMOUTH & OCEAN COUNTIES:

	Rates	Fringes
Plasterer.....	\$ 28.50	13.40

PLAS0699-001 05/01/2002

CAMDEN, GLOUCESTER AND SALEM COUNTIES:

	Rates	Fringes
--	-------	---------

Cement Mason.....\$ 27.30 12.55

PLUM0009-003 03/01/2004

	Rates	Fringes
Air Conditioning & Refrigeration Mechanic.....	\$ 26.92	11.33

SCOPE OF WORK: Installation of air conditioning and refrigeration equipment whose combined tonnage does not exceed 15 tons. Installation of water cooled air conditioning that does not exceed 10 tons (includes piping of compenent system and erection of water tower). Installation of air cooled air conditioning that does not exceed 15 tons. Installation of air conditioning equipment of the "Package-Unitary" rooftop type, the combined tonnage of which does not exceed 35 tons. Packaged Unitary Air Conditioning and Refreigeration Institute (ARI) as follows: "A unitary air conditioner consists of one or more cooling coil, and air moving device, a cpmpressor and condenser combination, and may include a heating function as well". Any and all related piping to the above installation will be done under the appropriate trade jurisdiction.

PLUM0009-004 07/01/2003

BURLINGTON (from the town of Burlington City, to everything north along County Road Route 541 East also known as High Street, until it reaches the city of Mount Holly which is also Local 9 territory, Madison Avenue in Mount Holly to State Road Route 38 East, again everything north along State Road Route 38 East until its cross over, State Road Route 206 and becomes County Road Route 530, continuing on including Pemberton Boro to south on Magnolia Road in Pemberton Township to Magnolia New Lisbon Road (Route 545), to south on Mount Holly Misery Road to State Road Route 70 East to the Ocean County Line),
MERCER, MONMOUTH, AND OCEAN COUNTIES:

	Rates	Fringes
Plumber/Pipefitter.....	\$ 36.88	17.00

PLUM0322-001 05/01/2003

ATLANTIC; BURLINGTON (Ramainder) CAMDEN; CAPE MAY; CUMBERLAND;
GLOUCESTER; AND SALEM COUNTIES:

	Rates	Fringes
Plumber/Pipefitter.....	\$ 32.12	18.69

ROOF0004-001 06/01/2002

MONMOUTH COUNTY (Remainder) AND OCEAN (Remainder) COUNTIES:

	Rates	Fringes
Roofer.....	\$ 29.57	12.75

ROOF0030-004 05/01/2002

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MERCER AND SALEM COUNTIES; and the following portions of MONMOUTH AND OCEAN COUNTIES: West of a line starting from the point on Route 70 where Burlington and Ocean Counties meet, Easterly along Route 70 to Route 571, along Route 571 to Cassville, Easterly on Route 528 to Van Hiseville, Northerly on Route 527 to Manalapan, Westerly on Route 33 to the Monmouth County Line:

	Rates	Fringes
Roofers:		
All other work.....	\$ 26.00	13.05+A
Shingle, slate and tile.....	\$ 19.25	6.17

FOOTNOTE: A. PAID HOLIDAY: Election Day

* SFNJ0669-002 04/01/2004

ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER (Remainder), MONMOUTH, OCEAN, AND SALEM (Remainder) COUNTIES:

	Rates	Fringes
Sprinkler Fitter.....	\$ 35.55	6.15

SFNJ0692-001 05/01/2003

CAMDEN, GLOUCESTER, MERCER (Town of Trenton), AND SALEM (Penns Grove, excluding Penns Grove Airport) COUNTIES:

	Rates	Fringes
Sprinkler Fitter.....	\$ 37.27	11.80

SHEE0019-010 05/01/2003

CAMDEN, GLOUCESTER, & SALEM COUNTIES:

	Rates	Fringes
Sheet metal worker.....	\$ 33.18	17.90+H

H-Election Day is a paid holiday.

SHEE0027-002 01/01/2004

ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER, MONMOUTH
AND OCEAN COUNTIES:

	Rates	Fringes
Sheet metal worker.....	\$ 34.20	21.10

SUNJ1993-001 12/07/1993

MERCER COUNTY:

	Rates	Fringes
Cement Mason (BUILDING CONSTRUCTION ONLY).....	\$ 19.60	8.83

TEAM0331-001 01/01/2004

ATLANTIC AND CAPE MAY COUNTIES:

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 22.00	14.43+A+B
GROUP 2.....	\$ 22.15	14.43+A+B
GROUP 3.....	\$ 22.35	14.43+A+B
GROUP 4.....	\$ 22.50	14.43+A+B

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day; Washington's Birthday;
Memorial Day; Independence Day; Labor Day; Veteran's Day;
Presidential Election Day; Thanksgiving Day& Christmas Day;
provided the employee works 3 days in the week in which the
holiday falls.

B. BEREAVEMENT LEAVE: Any employee having a death in their
immediate family, which shall be parents, spouse, children
blood brothers or sisters, mother-in-law, and father-in-law
shall be given three (3) days time off with pay at the time
of death upon furnishing proof of said death. The provision
shall also apply to grandparents, when living with the
employee.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Straight Truck Driver, Dump Truck Driver, Water Truck
Driver, Transit Mix Driver, Pickup Truck Driver, Tank Truck
Driver, Tractor Truck Driver, Agitator Truck Driver, Concrete
Mobile Unit Driver, Tringer Bead Truck Driver, Ross Carrier
Driver, Warehouse Forklift Driver, A Frame Truck Driver, Gin
Pole Truck Driver, Form Truck Driver, Driver for Truck having
Self Loading/Unloading Attachment, & Vacuum Truck/Trailer.

GROUP 2: Trucks Towing Driver

GROUP 3:Trailer Truck Driver,Winch Truck Driver,Off Road Dump Truck Driver,Fuel Truck Driver,Tractor Trailer(any trailer driver),Asphalt Oil Distributor Driver,& Off Road Water Truck Driver.

GROUP 4:Mechanics.

TEAM0469-002 05/01/2000

BURLINGTON (Remainder), MERCER, MONMOUTH, AND OCEAN COUNTIES

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 26.35	11.835+A
GROUP 2.....	\$ 26.40	11.835+A
GROUP 3.....	\$ 26.50	11.835+A
GROUP 4.....	\$ 26.60	11.835+A

FOOTNOTE:

A. Employees working or receiving pay for 80 days within a year receive one week's paid vacation (48 hours); 125 days receive two weeks' vacation (96 hours); 145 days receive 15 days (120 hours); 15 years seniority and 145 days receive 4 weeks vacation (160 hours).

PAID HOLIDAYS: New Year's Day; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Columbus Day; Veteran's Day, General Election Day; Thanksgiving Day; and Christmas Day provided the employee has been assigned to work or "shapes" one day of the calendar week during which the holiday falls. Employee receives \$3.00 per hour premium pay for hazardous waste work.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Drivers on the following type vehicles: straight dumps, flats, floats, pick-ups, container haulers, fuel, water sprinkler, road oil, stringer, bead, hot pass, bus dumpcrete, transit mixers, agitator mixer, half truck, winch truck, side-0- matic, dynamite, power, x-ray, welding, skid, jeep, station wagon, stringer, A-frame, all dual purpose trucks, truck with mechanical tailgate, asphalt distributor, batch trucks, seeding, mulching, fertilizer, air compressor trucks (in transit), parts chaser, escort, scissor, Hi-lift, telescope, concrete breaker, gin pole, stone, sand, asphalt distributor and spreader, nipper, fuel trucks (drivers on fuel trucks, including handling of unit), skid truck (debris container - entire unit), concrete mobile trucks (entire unit), expediter (parts chaser), beltcrete trucks, pumpcrete trucks, line truck, reel truck, wreckers, utility trucks, tank trucks, warehousemen, warehouse partsmen, yardmen, lift truck in warehouse, warehouse clerk, parts man, material checkers, receivers shippers, binning men (materials cardex man); drivers on the following type vehicle: broyhill coal tar epoxy trucks, little-ford bituminous distributor, slurry

seal truck or vehicle, thiokol trackmaster pick-up (swamp cat pickup, bucket loader dump truck and any rubber-tired tractor used in pulling and towing farm wagons and trailers of any description, similar type vehicles); off-site and on-site repair shop, team drivers, vacuum or vac-all trucks (entire unit)

GROUP 2: Drivers on straight 3-axle materials; truck and floats

GROUP 3: Drivers on all euclid-type vehicles; euclids, international harvesters, wabcos, caterpillar, koehring, tractors, and wagons, dumptors, straight, bottom, rear and side dumps, carryalls and scrapers (not self-loading - loading over the top), water sprinkler, trailers, water pulls and similar types of vehicles; drivers on tractors and trailer type vehicles; flat, floats, I-beam, low beds, water sprinkler, bituminous transit mix, road oil, fuel bottom dump hopper, rear dump, office shanty, epoxy, asphalt, agitator mixer, mulching, stringer, seeding, fertilizing pole spread, bituminous distributor, water pulls (entire unit) (tractor trailer), reel trailer and similar types of vehicles

GROUP 4: Winch Trailer Drivers

 TEAM0676-001 05/01/2003

BURLINGTON (Area West of the NJ Turnpike to the Delaware River), CAMDEN, CUMBERLAND, GLOUCESTER AND SALEM COUNTIES:

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 23.25	11.6875+A+B
GROUP 2.....	\$ 23.30	11.6875+A+B
GROUP 3.....	\$ 23.45	11.6875+A+B
GROUP 4.....	\$ 23.65	11.6875+A+B
GROUP 5.....	\$ 23.80	11.6875+A+B

FOOTNOTES:

A. Employee who has worked or received pay for 90 days within a year prior to his anniversary date shall receive 56 hours straight time vacation pay; for 3 years but less than 8 years of service he will receive 100 hours of straight time vacation pay; 15 years or more he will receive 165 hours of straight time vacation pay.

B. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, Christmas Day, and two personal holidays, Good Friday, and Christmas Eve afternoon (provided employee works that morning) on the condition that the employee works or is available for work on at least two days in the week in which the holiday occurs.

C. Truck drivers, on hazardous waste removal work on a state or federally designated hazardous waste site where the truck driver is in direct contact with hazardous materials and when

personal protective equipment is required for respiratory, skin and eye protection the teamster shall receive \$2.25 per hour in addition to the regular rate of pay including overtime pay.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Warehouseman

GROUP 2: Dump truck, water truck, transit mix, pickup, tank, track, agitator, concrete mobile unit, dytinger bead, tack rig, ross carrier, warehouse forklift, A-frame, gin pole form truck, truck having self loading/unloading attachment, straight

GROUP 3: Truckstowing

GROUP 4: Trailer winch off road dump, fuel, tractor trailer, asphalt oil distributor, off road water truck

GROUP 5: Mechanics

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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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 (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the 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, DC 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, DC 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, DC 20210

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

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END OF GENERAL DECISION

(End of Summary of Changes)

Contract Drawings - MTF

McGuire Air Force Base (MTF) Maintenance Training Facility

List of Drawings:

Issued 5/12/04

G-000	COVER SHEET	4/8/2004
G-001	LIST OF DRAWINGS, ABBREVIATIONS & LEGENDS	5/3/2004
G-002	OPTIONAL BID ITEMS PLAN	4/8/2004

CIVIL

C-101	EXISTING CONDITIONS PLAN	5/6/2004
C-102	DEMOLITION PLAN	5/6/2004
C-201	SITE PLAN	5/6/2004
C-202	GRADING AND DRAINAGE PLAN	5/6/2004
C-203	UTILITY PLAN	5/6/2004
C-301	SEWER PROFILES	5/6/2004
C-401	CIVIL DETAILS	4/8/2004
C-402	CIVIL DETAILS	4/8/2004
C-403	CIVIL DETAILS	4/8/2004
C-501	HTHW SYSTEM DETAILS	5/6/2004
C-502	HTHW SYSTEM DETAILS - BID OPTION 2	5/6/2004
C-502R	HTHW Shop Drawing Reference	5/6/2004
C-601	SOIL EROSION AND SEDIMENT CONTROL PLAN	5/6/2004
C-602	SOIL EROSION AND SEDIMENT CONTROL DETAILS	4/8/2004

LANDSCAPE

L-100	LANDSCAPE PLAN	5/13/2004
L-101	LANDSCAPE DETAILS	5/13/2004

LIFE SAFETY

LS-100	LIFE SAFETY PLANS 1st & 2nd FLOORS	4/8/2004
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ARCHITECTURAL

A-001	ARCHITECTURAL SITE PLAN	5/3/2004
A-100	OVERALL FLOOR PLANS	4/8/2004
A-101	WEST FIRST FLOOR PLAN	5/3/2004
A-102	EAST FIRST FLOOR PLAN	5/3/2004
A-103	SECOND FLOOR PLAN	4/8/2004
A-104	OVERALL ROOF PLAN	4/8/2004
A-200	OVERALL BUILDING ELEVATIONS	4/8/2004
A-201	ENLARGED BUILDING ELEVATIONS	4/8/2004
A-202	ENLARGED BUILDING ELEVATIONS	4/8/2004
A-203	BUILDING SECTIONS	4/8/2004
A-300	ENLARGED LOBBY PLAN / ELEVATIONS	4/8/2004
A-301	ENLARGED LOBBY SECTIONS & ELEVATIONS	4/8/2004
A-302	ENLARGED TODO PLAN / SECTIONS, ELEVATIONS	4/8/2004
A-303	INTERIOR LOBBY DETAILS	4/8/2004
A-304	INTERIOR LOBBY DETAILS	4/8/2004
A-305	TOILET ROOM PLANS & ELEVATIONS / MOUNTING HEIGHTS	4/8/2004
A-400	WEST FIRST FLOOR REFLECTED CEILING PLAN	4/8/2004
A-401	EAST FIRST FLOOR REFLECTED CEILING PLAN	4/8/2004
A-402	SECOND FLOOR REFLECTED CEILING PLAN	4/8/2004
A-500	WALL SECTIONS	4/8/2004
A-501	WALL SECTIONS	4/8/2004
A-502	STAIR PLANS, SECTIONS & GUARDRAIL DETAILS	4/8/2004
A-503	ROOF DETAILS	4/8/2004
A-504	CEILING DETAILS	4/8/2004
A-505	PRECAST DETAILS	4/8/2004
A-506	PLAN DETAILS	5/3/2004
A-507	PLAN DETAILS	4/8/2004
A-508	DETAILS	4/8/2004
A-600	FINISH SCHEDULE AND LEGENDS	5/3/2004
A-601	PARTITION TYPES	4/8/2004
A-602	DOOR SCHEDULE & TYPES & DETAILS	4/8/2004
A-603	WINDOW & LOUVER SCHEDULE	4/8/2004
A-604	WINDOW & LOUVER DETAILS	4/8/2004
A-605	MILLWORK ELEVATIONS & DETAILS	4/8/2004
A-700	FIRST FLOOR WEST - FURNITURE PLAN	4/8/2004
A-701	FIRST FLOOR EAST - FURNITURE PLAN	4/8/2004
A-702	FIRST FLOOR WEST - FURNITURE POWER / VOICE /DATA PLAN	4/8/2004
A-703	FIRST FLOOR EAST - FURNITURE POWER / VOICE /DATA PLAN	4/8/2004
A-704	FIRST FLOOR ENLARGED PANEL PLANS	4/8/2004
A-705	FIRST FLOOR ENLARGED PANEL PLANS	4/8/2004
A-706	FIRST FLOOR DEMOUNTABLE PARTITION PLANS	4/8/2004
A-707	FIRST FLOOR EAST DEMOUNTABLE PARTITION PLANS	4/8/2004
A-708	TYPICAL WORKSTATIONS	4/8/2004
A-709	FIRST FLOOR WEST - SIGNAGE PLAN	4/8/2004
A-710	FIRST FLOOR EAST - SIGNAGE PLAN	4/8/2004

STRUCTURAL

S-001	STRUCTURAL GENERAL NOTES & ABBREVIATIONS	4/8/2004
S-101	WEST FOUNDATION & FIRST FLOOR PLAN	5/3/2004
S-102	EAST FOUNDATION & FIRST FLOOR PLAN	5/3/2004
S-103	WEST LOWER ROOF & SECOND FLOOR FRAMING PLANS	4/8/2004
S-104	EAST LOWER ROOF FRAMING PLAN	4/8/2004
S-105	UPPER ROOF FRAMING PLAN	4/8/2004
S-201	FOUNDATION DETAILS	5/3/2004
S-202	SLAB ON GRADE & EQUIPMENT PAD DETAILS	4/8/2004
S-203	TYPICAL COMPOSITE CONSTRUCTION DETAILS	4/8/2004
S-204	TYPICAL STEEL FRAMING DETAILS	4/8/2004
S-301	LATERAL FRAME ELEVATIONS	4/8/2004
S-302	PARTIAL BUILDING ELEVATIONS	4/8/2004

MECHANICAL

M-001	MECHANICAL SYMBOLS, ABBREVIATIONS, AND LEGENDS	4/8/2004
M-101	WEST FIRST FLOOR MECHANICAL PLAN	4/8/2004
M-102	EAST FIRST FLOOR MECHANICAL PLAN	4/8/2004
M-103	WEST SECOND FLOOR MECHANICAL PLAN	4/8/2004
M-201	1ST AND 2ND FLOORS ENLARGED MECH PLAN	4/8/2004
M-301	WEST SECOND FLOOR MECHANICAL ROOM SECTION	4/8/2004
M-302	WEST SECOND FLOOR MECHANICAL ROOM SECTION	4/8/2004
M-401	MECHANICAL SCHEDULES - 1	4/8/2004
M-402	MECHANICAL SCHEDULES - 2	4/8/2004
M-501	MECHANICAL FLOW DIAGRAMS	4/8/2004
M-502	MECHANICAL FLOW DIAGRAMS	4/8/2004
M-601	MECHANICAL DETAILS	4/8/2004
M-602	MECHANICAL DETAILS	4/8/2004
M-603	MECHANICAL DETAILS	4/8/2004
M-701	MECHANICAL CONTROL DIAGRAM	4/8/2004
M-702	MECHANICAL CONTROL DIAGRAM	4/8/2004
M-703	MECHANICAL CONTROL DIAGRAM	4/8/2004
M-704	MECHANICAL CONTROL DIAGRAM	4/8/2004
MP-101	WEST FIRST FLOOR MECHANICAL PIPING PLAN	4/8/2004
MP-102	EAST FIRST FLOOR MECHANICAL PIPING PLAN	4/8/2004
MP-103	WEST SECOND FLOOR MECHANICAL PIPING PLAN	4/8/2004

PLUMBING & FIRE PROTECTION

P-001	PLUMBING LEGEND, SCHEDULES	4/8/2004
P-101	WEST FIRST FLOOR PLAN PLUMBING	4/8/2004
P-102	EAST FIRST FLOOR & SECOND FLOOR PLAN PLUMBING	4/8/2004
P-201	PLUMBING ENLARGED PARTIAL FLOOR PLANS	4/8/2004
P-301	PLUMBING SANITARY & DOMESTIC WATER RISER DIAGRAM	4/8/2004
P-401	PLUMBING DETAILS	4/8/2004
F-001	FIRE PROTECTION LEGEND, SCHEDULES & DETAILS	4/8/2004
F-101	WEST FIRST FLOOR PLAN FIRE PROTECTION	4/8/2004
F-102	EAST FIRST FLOOR & SECOND FLOOR PLAN FIRE PROTECTION	4/8/2004

ELECTRICAL

E-100	ELECTRICAL - LEGENDS & GENERAL NOTES	5/3/2004
E-201	ELECTRICAL - SINGLE LINE DIAGRAM	4/8/2004
E-202	ELECTRICAL - SITE PLAN	5/3/2004
E-301	ELECTRICAL - WEST FIRST FLOOR PLAN - LIGHTING	4/8/2004
E-302	ELECTRICAL - EAST FIRST & SECOND FLOOR PLANS - LIGHTING	4/8/2004
E-401	ELECTRICAL - WEST FIRST FLOOR PLAN - POWER & AUXILIARY	4/8/2004
E-402	ELECTRICAL - EAST FIRST & SECOND FLOOR PLANS - POWER & AUXILIARY	4/8/2004
E-403	ELECTRICAL - ROOF PLAN - LIGHTNING PROTECTION	5/3/2004
E-501	ELECTRICAL WEST FIRST FLOOR PLAN MECHANICAL & FIRE ALARM	5/3/2004
E-502	ELECTRICAL EAST FIRST & SECOND FLOOR PLANS MECHANICAL & FIRE ALARM	4/8/2004
E-601	ELECTRICAL - DETAILS & SCHEDULES	5/3/2004
E-602	ELECTRICAL - DETAILS & SCHEDULES	4/8/2004
E-603	ELECTRICAL - DETAILS & SCHEDULES	4/8/2004
E-604	ELECTRICAL - DETAILS & SCHEDULES	5/3/2004
E-605	ELECTRICAL - DETAILS & SCHEDULES	4/8/2004
E-701	ELECTRICAL - PANELBOARD SCHEDULES	5/3/2004
E-702	ELECTRICAL - PANELBOARD SCHEDULES	4/8/2004

TELECOMMUNICATIONS

T-001	TELECOMMUNICATIONS INDEX, SYMBOLS, & GENERAL NOTES	4/8/2004
T-101	TELECOMMUNICATIONS WEST FIRST FLOOR PLAN	4/8/2004
T-102	TELECOMMUNICATIONS EAST FIRST FLOOR PLAN	4/8/2004
T-103	TELECOMMUNICATIONS SECOND FLOOR PLAN	4/8/2004
T-301	TELECOMMUNICATIONS ROOM LAYOUT / RISER	4/8/2004
T-501	TELECOMMUNICATIONS INSTALLATION DETAILS 1	4/8/2004
T-502	TELECOMMUNICATIONS INSTALLATION DETAILS 2	4/8/2004

SECTION 02300

EARTHWORK

08/03

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
(AASHTO)

- | | |
|--------------|--|
| AASHTO T 180 | (2001) Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and an 457 mm (18-in) Drop |
| AASHTO T 224 | (2001) Correction for Coarse Particles in the Soil Compaction Test |

ASTM INTERNATIONAL (ASTM)

- | | |
|-------------|---|
| ASTM C 136 | (2001) Sieve Analysis of Fine and Coarse Aggregates |
| ASTM D 422 | (1963; R 1998) Particle-Size Analysis of Soils |
| ASTM D 698 | (2000a) Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/cu. ft. (600 kN-m/cu. m.)) |
| ASTM D 1140 | (2000) Amount of Material in Soils Finer than the No. 200 (75-micrometer) Sieve |
| ASTM D 1556 | (2000) Density and Unit Weight of Soil in Place by the Sand-Cone Method |
| ASTM D 2167 | (1994; R 2001) Density and Unit Weight of Soil in Place by the Rubber Balloon Method |
| ASTM D 2487 | (2000) Soils for Engineering Purposes (Unified Soil Classification System) |
| ASTM D 2922 | (2001) Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth) |
| ASTM D 2937 | (2000e1) Density of Soil in Place by the Drive-Cylinder Method |
| ASTM D 3017 | (2001) Water Content of Soil and Rock in |

Place by Nuclear Methods (Shallow Depth)

ASTM D 4318

(2000) Liquid Limit, Plastic Limit, and
Plasticity Index of Soils

1.2 DEFINITIONS

1.2.1 Satisfactory Materials

Imported Engineered Fill: Soil Material obtained from off-site sources classified as CL, SC, SM, GM, GP or GW which contains less than about 60% by weight Silt and is free of organics and debris. Maximum aggregate size shall be limited to 3 inches. Suitable material should have a maximum Liquid Limit of 25 and maximum Plasticity Index of 15. As an alternative, ASTM D448-86 No. 10 Stone Screenings are considered acceptable. On Site Borrow Engineered Fill: Soil Material obtained from on-site sources classified as SC, SM, SP, SW, GM, GP or GW which contains less than 50% by weight Silt or Clay and is free of organics and debris. Maximum aggregate size shall be limited to 3 inches. Suitable material should have a maximum Liquid Limit 40 and maximum Plasticity Index of 30. The majority of on site soils should be suitable for use as Engineered Fill.

1.2.2 Unsatisfactory Materials

Materials which do not comply with the requirements for satisfactory materials are unsatisfactory. Unsatisfactory materials also include man-made fills; trash; refuse; and material classified as satisfactory which contains root and other organic matter or frozen material. The Contracting Officer shall be notified of any contaminated materials.

1.2.3 Cohesionless and Cohesive Materials

Cohesionless materials include materials classified in ASTM D 2487 as GW, GP, SW, and SP. Cohesive materials include materials classified as GC, SC, ML, CL, MH, and CH. Materials classified as GM and SM will be identified as cohesionless only when the fines are nonplastic. Testing required for classifying materials shall be in accordance with ASTM D 4318, ASTM C 136, ASTM D 422, and ASTM D 1140.

1.2.4 Degree of Compaction

Degree of compaction required, except as noted in the second sentence, is expressed as a percentage of the maximum density obtained by the test procedure presented in ASTM D 698 abbreviated as a percent of laboratory maximum density. Since ASTM D 698 applies only to soils that have 30 percent or less by weight of their particles retained on the 9.0 mm 3/4 inch sieve, the degree of compaction for material having more than 30 percent by weight of their particles retained on the 9.0 mm 3/4 inch sieve shall be expressed as a percentage of the maximum density in accordance with AASHTO T 180 Method D and corrected with AASHTO T 224. To maintain the same percentage of coarse material, the "remove and replace" procedure as described in the NOTE 8 in Paragraph 7.2 of AASHTO T 180 shall be used.

1.2.5 Topsoil

Material suitable for topsoils obtained from offsite areas excavations is defined as: Natural, friable soil representative of productive, well-drained soils in the area, free of subsoil, stumps, rocks larger than

25 mm one inch diameter, brush, weeds, toxic substances, and other material detrimental to plant growth. Amend topsoil pH range to obtain a pH of 5.5 to 7.

1.2.6 Unstable Material

Unstable material shall consist of materials too wet to properly support the utility pipe, conduit, or appurtenant structure.

1.2.7 Select Granular Material

1.2.7.1 General Requirements

Select granular material shall consist of ASTM D448 No. 57 Stone.

1.2.8 Initial Pipe Backfill Material

Initial pipe backfill material shall be as specified in Section 02316A Excavation, Trenching and Backfilling for Utilities Systems.

1.2.9 Nonfrost Susceptible (NFS) Material

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Utilization of Excavated Materials; G
Opening of any Excavation or Borrow Pit
Shoulder Construction

Procedure and location for disposal of unused satisfactory material. Proposed source of borrow material. Advance notice on the opening of excavation or borrow areas. Advance notice on shoulder construction for rigid pavements.

SD-06 Test Reports

Testing
Borrow Site Testing

Within 24 hours of conclusion of physical tests, 2 copies of test results, including calibration curves and results of calibration tests. Results of testing at the borrow site.

SD-07 Certificates

Testing

Qualifications of the commercial testing laboratory or Contractor's testing facilities.

1.4 SUBSURFACE DATA

The subsoil investigation report and subsurface soil boring logs are appended to the SPECIAL CONTRACT REQUIREMENTS. These data represent the best subsurface information available; however, variations may exist in the subsurface between boring locations.

1.5 CLASSIFICATION OF EXCAVATION

No consideration will be given to the nature of the materials, and all excavation will be designated as unclassified excavation.

1.6 CRITERIA FOR BIDDING

Base bids on the following criteria:

- a. Surface elevations are as indicated.
- b. Pipes or other artificial obstructions may be encountered and shall be removed within the footprint of the MTF building. They may remain in place in other areas provided they are a minimum of two feet below the subgrade level and are plugged with concrete at each end.
- c. Ground water elevations indicated by the boring log were those existing at the time subsurface investigations were made and do not necessarily represent ground water elevation at the time of construction.
- e. Material character is more or less indicated by the boring logs.
- f. Hard materials and rock will not be encountered.

PART 2 PRODUCTS

2.1 REQUIREMENTS FOR OFFSITE SOILS OR "SATISFACTORY MATERIAL"

Offsite soils shall be (in accordance with paragraph 1.2.1 of this section.) Material shall not be brought on site until approved by the Contracting Officer.

2.2 CAPILLARY WATER BARRIER

Capillary Water Barrier shall consist of ASTM D 448 or C 33, No. 57 stone or crushed gravel, placed beneath a building slab with or without a vapor barrier to cut off the capillary flow of pore water to the area immediately below.

PART 3 EXECUTION

3.1 STRIPPING OF TOPSOIL

In areas currently planted and to receive new structure or paving topsoil shall be stripped to a depth of topsoil shall be deposited in stockpiles convenient to areas that are to receive application of the topsoil later. Topsoil shall be kept separate from other excavated materials, brush, litter, objectionable weeds, roots, stones larger than 2 inches in diameter, and other materials that would interfere with planting and maintenance operations. Any surplus of topsoil from excavations and grading shall be removed from the site.

3.2 GENERAL EXCAVATION

The Contractor shall perform excavation of every type of material encountered within the limits of the project to the lines, grades, and elevations indicated and as specified. Grading shall be in conformity with the typical sections shown and the tolerances specified in paragraph FINISHING. Satisfactory excavated materials shall be transported to and placed in fill or embankment within the limits of the work. Unsatisfactory materials encountered within the limits of the work shall be excavated below grade and replaced with satisfactory materials as directed. Such excavated material and the satisfactory material ordered as replacement shall be included in excavation. Surplus excavated material shall be disposed of off site under the direction of the Contracting Official. During construction, excavation and fill shall be performed in a manner and sequence that will provide proper drainage at all times. Material required for fill or embankment in excess of that produced by excavation within the grading limits shall be excavated from the borrow areas indicated or from other approved areas selected by the Contractor as specified. Existing site soils are sensitive to moisture and will become difficult to work with if exposed to rain or ground water. Care shall be taken to protect exposed subgrades.

3.2.1 Ditches, Gutters, and Channel Changes

Excavation of ditches, gutters, and channel changes shall be accomplished by cutting accurately to the cross sections, grades, and elevations shown. Ditches and gutters shall not be excavated below grades shown. Excessive open ditch or gutter excavation shall be backfilled with satisfactory, thoroughly compacted, material or with suitable stone or cobble to grades shown. Material excavated shall be disposed of as shown or as directed, except that in no case shall material be deposited less than 4 feet from the edge of a ditch. The Contractor shall maintain excavations free from detrimental quantities of leaves, brush, sticks, trash, and other debris until final acceptance of the work.

3.2.2 Drainage Structures

Excavations shall be made to the lines, grades, and elevations shown, or as directed. Trenches and foundation pits shall be of sufficient size to permit the placement and removal of forms for the full length and width of structure footings and foundations as shown. Rock or other hard foundation material shall be cleaned of loose debris and cut to a firm, level, stepped, or serrated surface. Loose disintegrated rock and thin strata shall be removed. When concrete or masonry is to be placed in an excavated area, the bottom of the excavation shall not be disturbed. Excavation to the final grade level shall not be made until just before the concrete or masonry is to be placed.

3.2.3 Drainage

Provide for the collection and disposal of surface and subsurface water encountered during construction. Completely drain construction site during periods of construction to keep soil materials sufficiently dry. The Contractor shall establish/construct storm drainage features at the earliest stages of site development, and throughout construction grade the construction area to provide positive surface water runoff away from the construction activity and/or provide temporary ditches, swales, and other drainage features and equipment as required to maintain dry soils. When unsuitable working platforms for equipment operation and unsuitable soil support for subsequent construction features develop, remove unsuitable

material and provide new soil material as specified herein. It is the responsibility of the Contractor to assess the soil and ground water conditions presented by the plans and specifications and to employ necessary measures to permit construction to proceed.

3.2.4 Dewatering

Surfacewater flowing toward or into excavations shall be controlled to prevent sloughing of excavation slopes and walls, boils, uplift and heave in the excavation and to eliminate interference with orderly progress of construction. French drains, sumps, ditches or trenches will not be permitted within 3 feet of the foundation of any structure, except with specific written approval, and after specific contractual provisions for restoration of the foundation area have been made. Control measures shall be taken to maintain the integrity of the in situ material.

3.2.5 Trench Excavation Requirements

The trench shall be excavated in accordance with section 02316A Excavation, Trenching, and Backfilling for Utilities Systems.

3.2.6 Underground Utilities

Movement of construction machinery and equipment over pipes and utilities during construction shall be at the Contractor's risk. Excavation made with power-driven equipment is not permitted within two feet of known Government-owned utility or subsurface construction. For work immediately adjacent to or for excavations exposing a utility or other buried obstruction, excavate by hand. Start hand excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured. Support uncovered lines or other existing work affected by the contract excavation until approval for backfill is granted by the Contracting Officer. Report damage to utility lines or subsurface construction immediately to the Contracting Officer.

3.2.7 Structural Excavation

Ensure that footing subgrades have been inspected and approved by the Contracting Officer prior to concrete placement.

3.3 SELECTION OF BORROW MATERIAL

Borrow material shall be satisfactory material. Borrow material shall be obtained from the borrow areas selected by the Contractor and approved by the Contracting Officer. Unless otherwise provided in the contract, the Contractor shall obtain from the owners the right to procure material, pay royalties and other charges involved, and bear the expense of developing the sources, including rights-of-way for hauling. Borrow material from approved sources on Government-controlled land may be obtained without payment of royalties. Unless specifically provided, no borrow shall be obtained within the limits of the project site or Government-controlled land without prior written approval. Necessary clearing, grubbing, and satisfactory drainage of borrow pits and the disposal of debris thereon shall be considered related operations to the borrow excavation.

3.4 OPENING AND DRAINAGE OF EXCAVATION AND BORROW PITS

Except as otherwise permitted, borrow pits and other excavation areas shall be excavated providing adequate drainage. Overburden and other spoil material shall be transported to designated spoil areas or otherwise disposed of as directed. Borrow pits shall be neatly trimmed and drained

after the excavation is completed. The Contractor shall ensure that excavation of any area, operation of borrow pits, or dumping of spoil material results in minimum detrimental effects on natural environmental conditions.

3.7 FINAL GRADE OF SURFACES TO SUPPORT CONCRETE

Excavation to final grade shall not be made until just before concrete is to be placed. All surfaces shall be protected from erosion resulting from ponding or flow of water.

3.8 GROUND SURFACE PREPARATION

3.8.1 General Requirements

Unsatisfactory material in surfaces to receive fill or in excavated areas shall be removed and replaced with satisfactory materials as directed by the Contracting Officer. The surface shall be scarified to a depth of 6 inches before the fill is started. Sloped surfaces steeper than 1 vertical to 4 horizontal shall be plowed, stepped, benched, or broken up so that the fill material will bond with the existing material. When subgrades are less than the specified density, the ground surface shall be broken up to a minimum depth of 150 mm 6 inches, pulverized, and compacted to the specified density. When the subgrade is part fill and part excavation or natural ground, the excavated or natural ground portion shall be scarified to a depth of 300 mm 12 inches and compacted as specified for the adjacent fill.

3.8.2 Frozen Material

Material shall not be placed on surfaces that are muddy, frozen, or contain frost. Compaction shall be accomplished by sheepsfoot rollers, pneumatic-tired rollers, steel-wheeled rollers, or other approved equipment well suited to the soil being compacted. Material shall be moistened or aerated as necessary to plus or minus 3 percent of optimum moisture. Minimum subgrade density shall be as specified in paragraph TESTING.

3.9 UTILIZATION OF EXCAVATED MATERIALS

Unsatisfactory materials removed from excavations shall be disposed of as per paragraph 3.16 Disposition of Surplus Material. Satisfactory material removed from excavations shall be used, insofar as practicable, in the construction of fills, embankments, subgrades, shoulders, bedding (as backfill), and for similar purposes. No satisfactory excavated material shall be wasted without specific written authorization. Satisfactory material authorized to be wasted shall be disposed of in designated areas approved for surplus material storage or designated waste areas as directed. Newly designated waste areas on Government-controlled land shall be cleared and grubbed before disposal of waste material thereon. Coarse rock from excavations shall be stockpiled and used for constructing slopes or embankments adjacent to streams, or sides and bottoms of channels and for protecting against erosion. No excavated material shall be disposed of to obstruct the flow of any stream, endanger a partly finished structure, impair the efficiency or appearance of any structure, or be detrimental to the completed work in any way.

3.10 BACKFILLING AND COMPACTION

Backfill adjacent to any and all types of structures shall be placed and compacted to at least 90 percent laboratory maximum density for cohesive materials or 95 percent laboratory maximum density for cohesionless materials to prevent wedging action or eccentric loading upon or against the structure. Ground surface on which backfill is to be placed shall be prepared as specified in paragraph PREPARATION OF GROUND SURFACE FOR EMBANKMENTS. Compaction requirements for backfill materials shall also conform to the applicable portions of paragraphs PREPARATION OF GROUND SURFACE FOR EMBANKMENTS, EMBANKMENTS, and SUBGRADE PREPARATION, and Section 02630A STORM-DRAINAGE SYSTEM; and Section 02316 EXCAVATION, TRENCHING, AND BACKFILLING FOR UTILITIES SYSTEMS. Compaction shall be accomplished by sheepsfoot rollers, pneumatic-tired rollers, steel-wheeled rollers, vibratory compactors, or other approved equipment.

3.11 EMBANKMENTS

3.11.1 Earth Embankments

Earth embankments shall be constructed from satisfactory materials free of organic or frozen material and rocks with any dimension greater than 75 mm or 3 inches. The material shall be placed in successive horizontal layers of loose material not more than 8 mm inches in depth. Each layer shall be spread uniformly on a soil surface that has been moistened or aerated as necessary, and scarified or otherwise broken up so that the fill will bond with the surface on which it is placed. After spreading, each layer shall be plowed, disked, or otherwise broken up; moistened or aerated as necessary; thoroughly mixed; and compacted to at least 90 percent laboratory maximum density for non-structural fills or 95 percent laboratory maximum density for structural fill under building materials. Compaction requirements for the upper portion of earth embankments forming subgrade for pavements shall be identical with those requirements specified in paragraph SUBGRADE PREPARATION. Compaction shall be accomplished by sheepsfoot rollers, pneumatic-tired rollers, steel-wheeled rollers, vibratory compactors, or other approved equipment.

3.12 SUBGRADE PREPARATION

3.12.1 Proof Rolling

Proof rolling shall be done on an exposed subgrade free of surface water (wet conditions resulting from rainfall) which would promote degradation of an otherwise acceptable subgrade. After stripping, proof roll the existing subgrade of the building with a dump truck loaded with 8 cubic yards of soil or 15 ton, pneumatic-tired roller. Operate the roller or truck in a systematic manner to ensure the number of passes over all areas, and at speeds between 2 to 4 mph. Notify the Contracting Officer a minimum of 3 days prior to proof rolling. Proof rolling shall be performed in the presence of the Contracting Officer. Rutting or pumping of material shall be undercut as directed by the Contracting Officer and replaced with fill material.

3.12.2 Construction

Subgrade shall be shaped to line, grade, and cross section, and compacted as specified. This operation shall include plowing, disking, and any moistening or aerating required to obtain specified compaction. Soft or otherwise unsatisfactory material shall be removed and replaced with satisfactory excavated material or other approved material as directed. Low areas resulting from removal of unsatisfactory material shall be

brought up to required grade with satisfactory materials, and the entire subgrade shall be shaped to line, grade, and cross section and compacted as specified. After rolling, the surface of the subgrade for roadways shall not show deviations greater than 0.75 inch when tested with a 10 foot straightedge applied both parallel and at right angles to the centerline of the area. The elevation of the finish subgrade shall not vary more than 0.05 foot from the established grade and cross section.

3.12.3 Compaction

Compaction shall be accomplished by sheepsfoot rollers, pneumatic-tired rollers, steel-wheeled rollers, vibratory compactors, or other approved equipment. Except for paved areas, each layer of the embankment shall be compacted to at least 95 percent of laboratory maximum density for structural fill under the building, pavement subgrade and 90% for non-structural fills.

3.13 FINISHING

The surface of excavations, embankments, and subgrades shall be finished to a smooth and compact surface in accordance with the lines, grades, and cross sections or elevations shown. The degree of finish for graded areas shall be within 30 mm 0.1 foot of the grades and elevations indicated except that the degree of finish for subgrades shall be specified in paragraph SUBGRADE PREPARATION. Gutters and ditches shall be finished in a manner that will result in effective drainage. The surface of areas to be turfed shall be finished to a smoothness suitable for the application of turfing materials. Settlement or washing that occurs in graded, topsoiled, or backfilled areas prior to acceptance of the work, shall be repaired and grades re-established to the required elevations and slopes.

3.13.1 Subgrade and Embankments

During construction, embankments and excavations shall be kept shaped and drained. Ditches and drains along subgrade shall be maintained to drain effectively at all times. The finished subgrade shall not be disturbed by traffic or other operation and shall be protected and maintained by the Contractor in a satisfactory condition until ballast, subbase, base, or pavement is placed. The storage or stockpiling of materials on the finished subgrade will not be permitted. No subbase, base course, ballast, or pavement shall be laid until the subgrade has been checked and approved, and in no case shall subbase, base, surfacing, pavement, or ballast be placed on a muddy, spongy, or frozen subgrade.

3.13.2 Capillary Water Barrier

Capillary water barrier under concrete floor and area-way slabs on grade shall be placed directly on the subgrade and shall be compacted with a minimum of two passes of a hand-operated plate-type vibratory compactor.

3.13.3 Grading Around Structures

Areas within 5 feet outside of each building and structure line shall be constructed true-to-grade, shaped to drain, and shall be maintained free of trash and debris until final inspection has been completed and the work has been accepted.

3.14 PLACING TOPSOIL

On areas to receive topsoil, the compacted subgrade soil shall be scarified to a 2 inch depth for bonding of topsoil with subsoil. Topsoil then shall be spread evenly to a thickness of mm 4 inches and graded to the elevations and slopes shown. Topsoil shall not be spread when frozen or excessively wet or dry. Material required for topsoil in excess of that produced by excavation within the grading limits shall be obtained from offsite areas by Contracting Official at no additional cost to the Government.

3.15 TESTING

Testing shall be performed by an approved commercial testing laboratory or by the Contractor subject to approval. If the Contractor elects to establish testing facilities, no work requiring testing will be permitted until the Contractor's facilities have been inspected and approved by the Contracting Officer. Field in-place density shall be determined in accordance with ASTM D 1556 or ASTM D 2167 or ASTM D 2922. When ASTM D 2922 is used, the calibration curves shall be checked and adjusted using only the sand cone method as described in ASTM D 1556. ASTM D 2922 results in a wet unit weight of soil and when using this method ASTM D 3017 shall be used to determine the moisture content of the soil. The calibration curves furnished with the moisture gauges shall also be checked along with density calibration checks as described in ASTM D 3017; the calibration checks of both the density and moisture gauges shall be made at the beginning of a job on each different type of material encountered and at intervals as directed by the Contracting Officer. ASTM D 2937, Drive Cylinder Method shall be used only for soft, fine-grained, cohesive soils. When test results indicate, as determined by the Contracting Officer, that compaction is not as specified, the material shall be removed, replaced and recompacted to meet specification requirements. Tests on recompacted areas shall be performed to determine conformance with specification requirements. Inspections and test results shall be certified by a registered professional civil engineer. These certifications shall state that the tests and observations were performed by or under the direct supervision of the engineer and that the results are representative of the materials or conditions being certified by the tests. The following number of tests, if performed at the appropriate time, will be the minimum acceptable for each type operation.

3.15.1 Fill and Backfill Material Gradation

One test per 100 yards stockpiled or in-place source material. Gradation of fill and backfill material shall be determined in accordance with ASTM D 422.

3.15.2 In-Place Densities

3.15.3 Moisture Contents

In the stockpile, excavation, or borrow areas, a minimum of two tests per day per type of material or source of material being placed during stable weather conditions shall be performed. During unstable weather, tests shall be made as dictated by local conditions and approved by the Contracting Officer.

3.15.4 Optimum Moisture and Laboratory Maximum Density

Tests shall be made for each type material or source of material including borrow material to determine the optimum moisture and laboratory maximum

density values. One representative test per each type of fill and backfill, or when any change in material occurs which may affect the optimum moisture content or laboratory maximum density.

3.15.5 Tolerance Tests for Subgrades

Continuous checks on the degree of finish specified in paragraph SUBGRADE PREPARATION shall be made during construction of the subgrades.

3.16 DISPOSITION OF SURPLUS MATERIAL

Surplus material or other soil material not required or suitable for filling or backfilling, and brush, refuse, stumps, roots, and timber shall be removed from Government property as directed by the Contracting Officer.

-- End of Section --